MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

1015 16th Avenue

Moline, IL 61265



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CAMPUS PLAN



SITE LOCATION MAP

LINCOLN - IRVING ELEMENTARY



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RELEASE

BIDDING

DATE OF ISSUE

10.23.2025

ARCHITECT'S PROJECT NUMBER

224150.00

LEGAT ARCHITECTS | Martin & Whitacre Surveyors & Engineers, Inc. | IMEG | rtm engineering consultants | CLEVENGER ASSOCIATES | ESTES CONSTRUCTION

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY	BE
REVIEWED BY	ZC

TITLE SHEET

G-001

BIDDING

OCCUPANT LOAD SCHEDULE

ROOM ID NUMBER	ROOM NAME	AREA	SF / OCCUPANT	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT LOAD
EXIT 1					
112	TOILET	84 SF	100	1	0
115	STAGE / MUSIC	863 SF	20	44	1
115A	STORAGE	140 SF	300	1	0
121	CUSTODIAL	37 SF	300	1	0
122	SPECIAL ED	933 SF	20	47	15
122A	STORAGE	91 SF	300	1	0
123	SPECIAL ED	953 SF	20	48	15
123A	STORAGE	88 SF	300	1	0
131	STAFF BREAK ROOM	723 SF	15	49	0
136	COLLAB - PORCH	673 SF	20	34	0
146	1ST GRADE	864 SF	20	44	29
147	2ND GRADE	864 SF	20	44	29
148	2ND GRADE	866 SF	20	44	29
149	2ND GRADE	876 SF	20	44	29
150	2ND GRADE	866 SF	20	44	29
151	STORAGE	566 SF	300	2	0
153	DISCOVERY SPACE	979 SF	50	20	0
210	COLLAB - PORCH	184 SF	20	10	0
228	4TH GRADE	861 SF	20	44	29
				523	205
EXIT 1 & 3A					
113	GYM	5694 SF	7	814	0
				814	0
EXIT 2					
101	RECEPTION	360 SF	15	24	2
101B	WORK AREA	98 SF	15	7	0
101C	BREAK	106 SF	15	8	0
102	RESOURCE	103 SF	100	2	0
104	CONFERENCE	198 SF	15	14	1
105	PRINCIPAL	215 SF	100	3	1
106	COUNSELOR	Redundant Room	100		1
108	ASSIST. PRINC.	194 SF	100	2	1
109	NURSE	208 SF	100	3	1
110	FLEX OFFICE	125 SF	100	2	0
				65	7
EXIT 3A					
113A	OFFICE	138 SF	100	2	1
113B	GYM STORAGE	177 SF	300	1	0
236	MEZZANINE	687 SF	300	3	0
236A	GENERATOR	211 SF	300	1	0
				7	1
EXIT 4					
116	ORCHESTRA	578 SF	20	29	1
				29	1
EXIT 4A					
117	CAFETERIA	3936 SF	15	263	0
117B	STORAGE	133 SF	300	1	0
				264	0
EXIT 5					
118	KITCHEN	1316 SF	200	7	4
118B	SERVERY	472 SF	200	3	0
118D	JANITOR	180 SF	300	1	0
118F	COOLER	205 SF	100	3	1
119	DRY STORAGE	136 SF	300	1	0
				15	5
EXIT 6					
113	CORRIDOR	6740 SF	100	68	1
124	KITCHENETTE	130 SF	200	1	0
125	OT/PT	832 SF	20	42	1
125A	STORAGE	101 SF	300	1	0
126	SOCIAL WORKER	117 SF	100	2	1
127	PSYCHOLOGIST	180 SF	100	2	1
128	SPECIAL ED	672 SF	20	34	15
128B	SPECIAL ED STORAGE	131 SF	300	1	0
129	BOILER ROOM	840 SF	300	3	0
129A	MECHANICAL	163 SF	300	1	0
130	KINDERGARTEN	894 SF	20	45	29
130B	K. STORAGE	131 SF	300	1	0
131A	WELLNESS	71 SF	100	1	0
132	KINDERGARTEN	948 SF	20	48	29
132B	K. STORAGE	127 SF	300	1	0
133	ML SPECIALIST	168 SF	20	9	1
135	INSTRUCTIONAL COACH	151 SF	20	8	1
137	SLP	174 SF	20	9	1
139	FLEX OFFICE	170 SF	100	2	1
154	SENSORY	83 SF	20	5	0
201	COMPUTER	806 SF	20	41	0
201A	COPY ROOM	146 SF	100	2	0
202	MULTI-PURPOSE	1058 SF	15	71	0

OCCUPANT LOAD SCHEDULE

ROOM ID NUMBER	ROOM NAME	AREA	SF / OCCUPANT	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT LOAD
202.2	STORAGE	50 SF	300	1	0
203	MECHANICAL	320 SF	100	4	1
204	5TH GRADE	733 SF	20	37	29
205B	STORAGE	92 SF	300	1	0
206	5TH GRADE	750 SF	20	38	29
207	4TH GRADE STORAGE	344 SF	300	2	0
208A	CUSTODIAL	148 SF	300	1	0
211	SPED RESOURCE	289 SF	20	15	1
212	SPED RESOURCE	269 SF	20	14	1
213	SLP	283 SF	20	15	1
214	5TH GRADE	765 SF	20	39	29
217	INTERVENTION	257 SF	20	13	1
235	PENTHOUSE	2887 SF	300	10	0
				588	173
EXIT 7					
102.2	STORAGE	92 SF	300	1	0
134	KINDERGARTEN	924 SF	20	47	29
134B	K. STORAGE	121 SF	300	1	0
138	KINDERGARTEN	952 SF	20	48	29
138B	K. STORAGE	181 SF	300	1	0
140	COPY ROOM	90 SF	100	1	0
141	1-2 STORAGE	369 SF	300	2	0
143	1ST GRADE	868 SF	20	44	29
144	1ST GRADE	868 SF	20	44	29
145	1ST GRADE	867 SF	20	44	29
202.2	STORAGE	43 SF	300	1	0
216B	STORAGE	92 SF	300	1	0
216	5TH GRADE	749 SF	20	38	29
218	COLLAB - PORCH	696 SF	20	35	0
219	INTERVENTION	231 SF	20	12	1
220	ART	918 SF	20	46	1
220B	STORAGE	250 SF	300	1	0
221	INSTRUCTIONAL COACH	228 SF	20	12	1
222	3-4 GRADE STORAGE	371 SF	300	2	0
223	COLLAB	56 SF	15	4	0
224	3RD GRADE	864 SF	20	44	29
225	3RD GRADE	860 SF	20	43	29
226	3RD GRADE	862 SF	20	44	29
				516	264
EXIT 8					
227	3RD GRADE	859 SF	20	43	29
229	4TH GRADE	861 SF	20	44	29
230	4TH GRADE	931 SF	20	47	29
231	4TH GRADE	921 SF	20	47	29
232	MEDIA CENTER	1567 SF	50	32	1
232A	BOOK STORAGE	210 SF	300	1	0
232A	COLLAB	224 SF	15	15	0
232C	OUTDOOR CLASS SPACE	512 SF	15	35	0
S200A	IDF	108 SF	300	1	0
				265	117
TOTAL OCCUPANCY				3086	773

EXIT DOOR SCHEDULE

DOOR EXIT ID	DOOR WIDTH	CLEAR WIDTH (INCHES)	MEANS OF EGRESS CAPACITY FACTOR	CALCULATED EXIT CAPACITY	ACTUAL EXIT CAPACITY
EXIT 1	3'-0"	33	0.15	670	561
EXIT 1A	6'-0"	67.5	0.15	450	407
EXIT 2	3'-0"	33	0.15	220	68
EXIT 3A	6'-0"	67.5	0.15	450	413
EXIT 3B	6'-0"	67.5	0.15	450	0
EXIT 4A	6'-0"	67.5	0.15	450	263
EXIT 5	6'-0"	67.5	0.15	450	15
EXIT 6	6'-0"	67.5	0.15	450	583
EXIT 7	7'-0"	79.5	0.15	530	520
EXIT 8	3'-6"	39	0.15	260	259
EXIT 10	6'-0"	67.5	0.15	450	209
EXIT 11	6'-0"	67.5	0.15	450	441

EXIT TRAVEL DISTANCES

EXIT PATH ID	TRAVEL DISTANCE
EXIT PATH #1	241'-9"
EXIT PATH #2	85'-2"
EXIT PATH #3A	109'-9"
EXIT PATH #4	34'-9"
EXIT PATH #4A	114'-4"
EXIT PATH #5	92'-2"
EXIT PATH #6	247'-2"
EXIT PATH #7	227'-5"
EXIT PATH #8	154'-6"
EXIT PATH #11	6'-6"

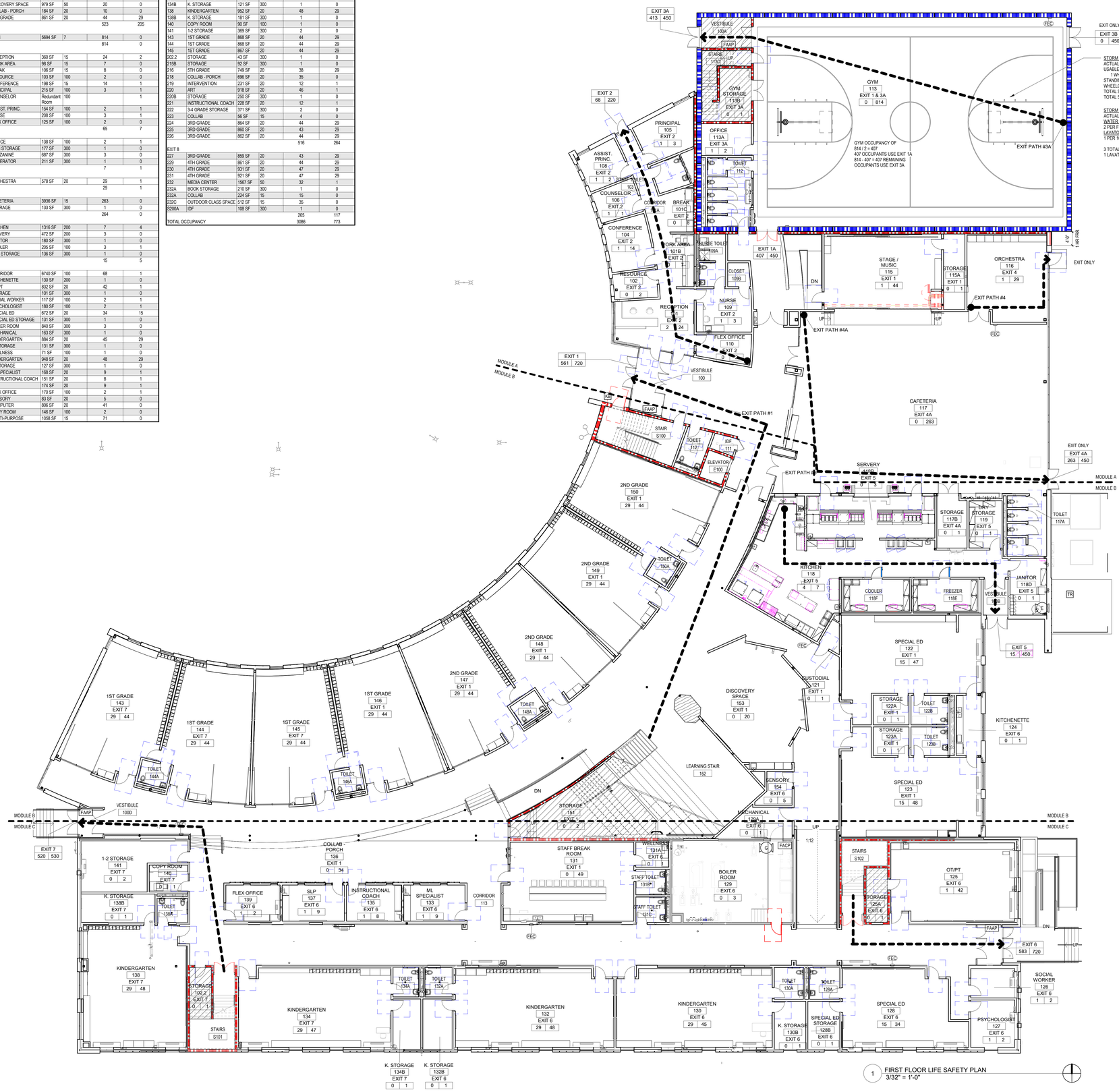
PLUMBING FIXTURE COUNT

SCHOOLS-STUDENT USE: ELEMENTARY OR EDUCATIONAL: E

ACTUAL OCCUPANT LOAD: 736 — MALE OCCUPANTS: 368 — FEMALE OCCUPANTS: 368

	MALE FIXTURES REQUIRED	MALE REQUIRED	MALE ACTUAL	FEMALE FIXTURES REQUIRED	FEMALE REQUIRED	FEMALE ACTUAL
WATER CLOSET	2 PER FIRST 50 1 PER 50 AFTER	9	16	2 PER FIRST 50 1 PER 50 AFTER	9	16
URINALS		0	0		-	-
LAVATORIES	2 PER FIRST 50 1 PER 50 AFTER	9	16	2 PER FIRST 50 1 PER 50 AFTER	9	16
DRINKING FOUNTAINS	1 PER 75	REQUIRED: 10	ACTUAL: 10			
SERVICE SINKS	1 PER FLOOR AND KITCHEN	REQUIRED: 3	ACTUAL: 3			

32 TOTAL UNISEX TOILETS
32 / 2 = 16 TOILETS MALE + 16 TOILETS FEMALE
32 TOTAL LAVATORIES
32 / 2 = 16 LAVATORIES MALE + 16 LAVATORIES FEMALE



1 FIRST FLOOR LIFE SAFETY PLAN
3/32" = 1'-0"

ENERGY CODE VALUES

ENERGY CODE	IECC 2015	
COMPLIANCE METHOD	R-VALUE PRESCRIPTIVE	
CLIMATE ZONE	5 AND MARINE 4	
OPAQUE THERMAL ENVELOPE ASSEMBLY (TABLE C402.1.3)	MINIMUM CODE REQUIREMENT	PROVIDED
ROOF		
INSULATION ENTIRELY ABOVE ROOF DECK	R-30 CI	R-34 CI
WALLS, ABOVE GRADE		
MASS	R-11.4 CI	R-11.4 CI
METAL FRAMED	R-13 + R7.5 CI	R-13 + R-7.35 CI
WALLS, BELOW GRADE		
BELOW-GRADE WALL	R-7.5 CI	N/A
FLOORS		
MASS	R-10 CI	N/A
JOIST/FRAMING	R-30	N/A
SLAB-ON-GRADE FLOORS		
UNHEATED SLABS	R-10 FOR 24" BELOW	R-10 FOR 24" BELOW
OPAQUE DOORS		
NONSWINGING	R-4.75	R-8.1
BUILDING ENVELOPE FENESTRATION (TABLE C402.4)	MAXIMUM U-FACTOR & SHGC	U-FACTOR & SHGC PROVIDED
U-FACTOR		
FIXED FENESTRATION	0.38	0.26
OPERABLE FENESTRATION	0.45	N/A
ENTRANCE DOORS	0.77	0.26
VERTICAL FENESTRATION		
SHGC		
ORIENTATION	SEW / N	SEW / N
PF < 0.2	0.38 / 0.51	0.28 / 0.28
0.2 ≤ PF < 0.5	0.46 / 0.56	N/A / N/A
PF ≥ 0.5	0.61 / 0.61	N/A / N/A
SKYLIGHTS		
U-FACTOR	0.50	N/A
SHGC	0.40	N/A

AIA 2030 DDX - REPORTING CRITERIA

ENERGY CODE	IECC 2015
ENERGY MODELING SOFTWARE	COVE TOOL
ENERGY MODELING PARTY	ARCHITECT
CLIMATE ZONE	5A COOL HUMID
DAILY AVERAGE OCCUPANTS (EXPECTED)	736
ENERGY USE BASELINE (ZERO TOOL)	N/A
MODEL pEUI	51.55 - KBTU/SF/YEAR
PERCENT REDUCTION	66%
DESIGN LIGHT POWER DENSITY	0.87 WATTS/SF
RENEWABLE ENERGY SOURCES	PV - FUTURE

BUILDING DATA - NEW CONSTRUCTION

APPLICABLE CODE	IBC 2015
USE GROUP - MIXED USE ACCESSORY	E, A, S-2 and B
CONSTRUCTION TYPE (TABLE 601)	IIB
ALLOWABLE HEIGHT (TABLE 504.3)	75 FEET
ACTUAL HEIGHT	30'-0"
ALLOWABLE STORIES ABOVE GRADE (TABLE 504.4)	3
ACTUAL STORIES ABOVE GRADE	2
ALLOWABLE AREA (TABLE 506.2) - E OCCUPANCY	43,500 SF
AREA INCREASE DUE TO FRONTAGE (506.3.3)	If = [1,153/1,488 - .25]30/30 If = .52
If = [F/P - .25]W/30	
MAXIMUM ALLOWABLE AREA - PER STORY (506.2.3)	**51,040 SF** = 43,500 + (14,500 x .52)
Aa = [At + (NS x If)]	51,040 SF x 2 STORIES = **102,080 SF**
FIRST FLOOR AREA OF EACH BUILDING SEPARATED BY FIRE WALL	48,934 SF + 7,000 SF (STORM SHELTER) 55,934 SF TOTAL FIRST FLOOR BUILDING FOOTPRINT
NEW BUILDING FOOTPRINT	**43,506 SF**
(NEW FIRST FLOOR + NEW SECOND FLOOR)	(29,204 SF + 14,302 SF)
EXISTING BUILDING FOOTPRINT	**45,164 SF**
(EX. FIRST FLOOR + EX. SECOND FLOOR)	(26,730 SF + 16,214 SF)
TOTAL BUILDING AREA (EXISTING + NEW)	88,670 SF
AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS	YES

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS

BUILDING ELEMENT	RATING	UL APPROVED DESIGN NO.
PRIMARY STRUCTURAL FRAME		
BEAMS	0 HR	-
COLUMNS	0 HR	-
BEARING WALLS		
EXTERIOR	0 HR	-
INTERIOR	0 HR	-
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR	-
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR	-
PERIMETER FIRESTOPPING AT CURTAIN WALL	-	-
PERIMETER FIRESTOPPING AT EDGE OF SLAB	-	-
FIRE WALL (TABLE 706.4)	2 HR	-
PARTY WALLS (TABLE 706.4)	0 HR	-
CORRIDOR WALLS (TABLE 1020.1)	0 HR	-
EXTERIOR WALL FIRE SEPARATION DISTANCE (TABLE 705.5)	1-HOUR: < 5' / 1-HOUR: 5' ≥ X < 10' 0-HOUR: 10' ≥ X < 30' / 0-HOUR: ≥ 30'	

MEANS OF EGRESS - NEW CONSTRUCTION

	SPRINKLED
APPLICABLE CODE	IBC 2015
DOOR/CORRIDOR EGRESS WIDTH (1005.3.2)	0.15/PERSON
STAIR EGRESS WIDTH (1005.3.1)	0.2/PERSON
MAX. LENGTH OF EXIT ACCESS TRAVEL (TABLE 1017.2)	250 FEET
MAX. LENGTH OF COMMON PATH EGRESS TRAVEL (TABLE 1006.2.1)	75 FEET
MAX. LENGTH OF DEAD END CORRIDORS (TABLE 1020.4)	50 FEET
MINIMUM CORRIDOR WIDTH (TABLE 1020.2)	72 INCHES

APPLICABLE CODES - NEW CONSTRUCTION

- 2015 INTERNATIONAL BUILDING CODE (IBC)
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2015 INTERNATIONAL FIRE CODE (IFC), EXCLUDING CHAPTER 4
- 2015 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2015 INTERNATIONAL MECHANICAL CODE (IMC)
- 2015 INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC)
- 29 ILLINOIS ADMINISTRATIVE CODE 1500 SHALL APPLY INSTEAD OF CHAPTER 4 OF THE INTERNATIONAL FIRE CODE
- PART 405.3.1 OF 2015 INTERNATIONAL PLUMBING CODE
- 77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE
- 71 ILLINOIS ADMINISTRATIVE CODE, PART 400, ILLINOIS ACCESSIBILITY CODE 2018
- FEDERAL ACCESSIBILITY CODE: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS (ICC 500- 2014)
- PART 180 HEALTH/LIFE SAFETY CODE FOR PUBLIC SCHOOLS
- 41 ILLINOIS ADMINISTRATIVE CODE PART 2120 BOILER AND PRESSURE VESSEL SAFETY
- NFPA 101 LIFE SAFETY CODE, 2012 EDITION

SAFETY REFERENCE NOTES

TOTAL OCCUPANT LOAD (SCHOOL) = 728 (27 CLASSROOMS AT 25 STUDENTS AND 1 TEACHER) + (26 OFFICE OR OTHER TEACHING STAFF, LIBRARIAN, RECEPTIONIST, AND KITCHEN STAFF)

TOTAL OCCUPANCY FOR FIRST FLOOR - 410
TOTAL OCCUPANCY FOR SECOND FLOOR - 318

SAFETY REFERENCE SYMBOLS & ABBREVIATIONS

ROOM NAME 101 — ROOM IDENTIFICATION NUMBER
EXIT # — PRIMARY EXIT NUMBER
ACT |CALC — OCCUPANT LOAD PER MAXIMUM FLOOR AREA ALLOWANCE; ACTUAL/ANTICIPATED OCCUPANT LOAD
EXIT # — DOOR EXIT IDENTIFICATION NUMBER
ACT |CALC — DOOR CALCULATED EXIT CAPACITY; DOOR ACTUAL EXIT CAPACITY
EXIT PATH ID — EGRESS ROUTE IDENTIFICATION
EGRESS ROUTE
1 - HOUR FIRE RESISTANCE RATING
2 - HOUR FIRE RESISTANCE RATING
HARDENED STORM SHELTER SHELL

AREA OF RESCUE ASSISTANCE
AED — AUTOMATED EXTERNAL DEFIBRILLATOR
FAAP — FIRE ALARM ANNUNCIATOR PANEL
KB — KNOX BOX
E — EMERGENCY ELECTRICAL SHUT OFF
SP — STAND PIPE
FACP — FIRE ALARM CONTROL PANEL
TR — TRANSFORMER FOR ELECTRICAL SERVICE
G — EMERGENCY GAS SHUT OFF
GSO — GENERATOR REMOTE SHUT OFF
FEC — FULLY RECESSED FIRE EXTINGUISHER CABINET
FECS — SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
FEC — SEMI-RECESSED FIRE EXTINGUISHER CABINET
FECS — SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
FEC — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FECS — SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
FBC — SURFACE MOUNTED FIRE BLANKET CABINET
FE — WALL MOUNTED FIRE EXTINGUISHER
SPRAY FIREPROOFING
SPRINKLERED
AREA OF 1 HOUR RATED CEILING ASSEMBLY - UL 263 (1011.7.3 IBC 2015)

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Davenport, IA 52807
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www.rtmec.com

FOOD SERVICE CONSULTANT
Clevenger Associates
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Asbury, IA 52002
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www.clevengerassoc.com

CONSTRUCTION MANAGER
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Davenport, IA 52803
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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	VP
REVIEWED BY	ZW

CODE INFORMATION & SAFETY REFERENCE PLANS

G-101

BIDDING

OCCUPANT LOAD SCHEDULE

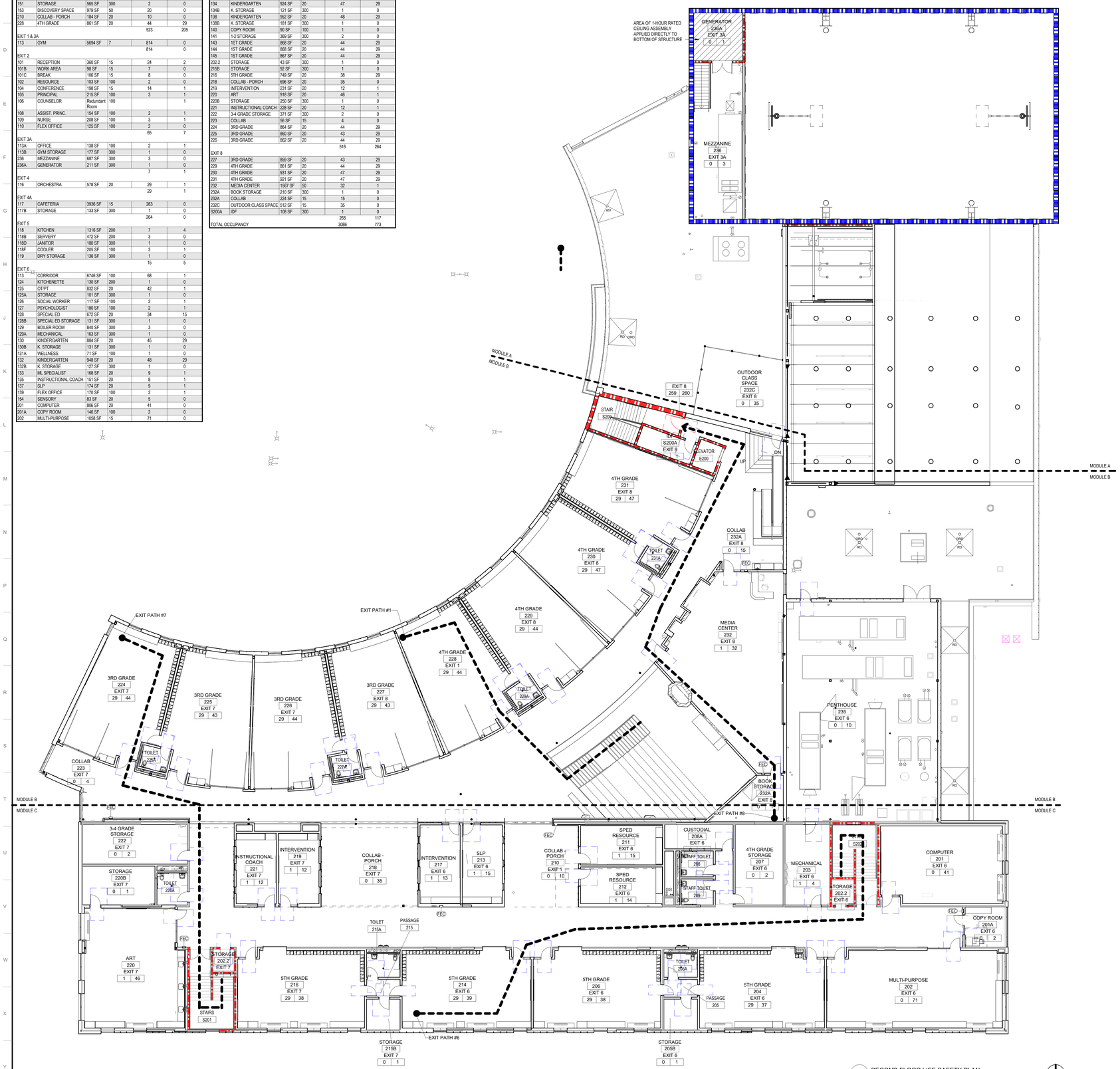
ROOM ID NUMBER	ROOM NAME	AREA	SF / OCCUPANT	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT LOAD
EXIT 1					
112	TOILET	84 SF	100	1	0
115	STAGE / MUSIC	863 SF	20	44	1
115A	STORAGE	140 SF	300	1	0
121	CUSTODIAL	37 SF	300	1	0
122	SPECIAL ED	933 SF	20	47	15
122A	STORAGE	91 SF	300	1	0
123	SPECIAL ED	963 SF	20	49	15
123A	STORAGE	88 SF	300	1	0
131	STAFF BREAK ROOM	723 SF	15	49	0
136	COLLAB - PORCH	673 SF	20	34	0
146	1ST GRADE	864 SF	20	44	29
147	2ND GRADE	864 SF	20	44	29
148	2ND GRADE	866 SF	20	44	29
149	2ND GRADE	876 SF	20	44	29
150	2ND GRADE	866 SF	20	44	29
151	STORAGE	565 SF	300	2	0
153	DISCOVERY SPACE	979 SF	50	20	0
210	COLLAB - PORCH	184 SF	20	10	0
228	4TH GRADE	861 SF	20	44	29
				523	205
EXIT 1 & 3A					
113	GYM	5694 SF	7	814	0
				814	0
EXIT 2					
101	RECEPTION	360 SF	15	24	2
101B	WORK AREA	98 SF	15	7	0
101C	BREAK	108 SF	15	8	0
102	RESOURCE	103 SF	100	2	0
104	CONFERENCE	198 SF	15	14	1
105	PRINCIPAL	215 SF	100	3	1
106	COUNSELOR	Redundant Room	100		1
108	ASSIST. PRINC.	194 SF	100	2	1
109	NURSE	208 SF	100	3	1
110	FLEX OFFICE	125 SF	100	2	0
				65	7
EXIT 3A					
113A	OFFICE	138 SF	100	2	1
113B	GYM STORAGE	177 SF	300	1	0
236	MEZZANINE	687 SF	300	3	0
236A	GENERATOR	211 SF	300	1	0
				7	1
EXIT 4					
116	ORCHESTRA	578 SF	20	29	1
				29	1
EXIT 4A					
117	CAFETERIA	3936 SF	15	263	0
117B	STORAGE	133 SF	300	1	0
				264	0
EXIT 5					
118	KITCHEN	1316 SF	200	7	4
118B	SERVERY	472 SF	200	3	0
118D	JANITOR	180 SF	300	1	0
118F	COOLER	205 SF	100	3	1
119	DRY STORAGE	136 SF	300	1	0
				15	5
EXIT 6					
113	CORRIDOR	6746 SF	100	68	1
124	KITCHENETTE	130 SF	200	1	0
125	OT/PT	832 SF	20	42	1
125A	STORAGE	101 SF	300	1	0
126	SOCIAL WORKER	117 SF	100	2	1
127	PSYCHOLOGIST	180 SF	100	2	1
128	SPECIAL ED	672 SF	20	34	15
128B	SPECIAL ED STORAGE	131 SF	300	1	0
129	BOILER ROOM	840 SF	300	3	0
129A	MECHANICAL	163 SF	300	1	0
130	KINDERGARTEN	894 SF	20	45	29
130B	K. STORAGE	131 SF	300	1	0
131A	WELLNESS	71 SF	100	1	0
132	KINDERGARTEN	948 SF	20	48	29
132B	K. STORAGE	127 SF	300	1	0
133	ML SPECIALIST	168 SF	20	9	1
135	INSTRUCTIONAL COACH	151 SF	20	8	1
137	SLP	174 SF	20	9	1
139	FLEX OFFICE	170 SF	100	2	1
154	SENSORY	83 SF	20	5	0
201	COMPUTER	806 SF	20	41	0
201A	COPY ROOM	146 SF	100	2	0
202	MULTI-PURPOSE	1058 SF	15	71	0

OCCUPANT LOAD SCHEDULE

ROOM ID NUMBER	ROOM NAME	AREA	SF / OCCUPANT	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT LOAD
202.2	STORAGE	50 SF	300	1	0
203	MECHANICAL	320 SF	100	4	1
204	5TH GRADE	733 SF	20	37	29
205B	STORAGE	92 SF	300	1	0
206	5TH GRADE	750 SF	20	38	29
207	4TH GRADE STORAGE	344 SF	300	2	0
208A	CUSTODIAL	148 SF	300	1	0
211	SPED RESOURCE	289 SF	20	15	1
212	SPED RESOURCE	269 SF	20	14	1
213	SLP	283 SF	20	15	1
214	5TH GRADE	765 SF	20	39	29
217	INTERVENTION	257 SF	20	13	1
235	PENTHOUSE	2887 SF	300	10	0
				588	173
EXIT 7					
102.2	STORAGE	92 SF	300	1	0
134	KINDERGARTEN	924 SF	20	47	29
134B	K. STORAGE	121 SF	300	1	0
138	KINDERGARTEN	952 SF	20	48	29
138B	K. STORAGE	181 SF	300	1	0
140	COPY ROOM	90 SF	100	1	0
141	1-2 STORAGE	369 SF	300	2	0
143	1ST GRADE	868 SF	20	44	29
144	1ST GRADE	868 SF	20	44	29
145	1ST GRADE	867 SF	20	44	29
202.2	STORAGE	43 SF	300	1	0
216B	STORAGE	92 SF	300	1	0
216	5TH GRADE	749 SF	20	38	29
218	COLLAB - PORCH	696 SF	20	35	0
219	INTERVENTION	231 SF	20	12	1
220	ART	918 SF	20	46	1
220B	STORAGE	250 SF	300	1	0
221	INSTRUCTIONAL COACH	228 SF	20	12	1
222	3-4 GRADE STORAGE	371 SF	300	2	0
223	COLLAB	56 SF	15	4	0
224	3RD GRADE	864 SF	20	44	29
225	3RD GRADE	860 SF	20	43	29
226	3RD GRADE	862 SF	20	44	29
				516	264
EXIT 8					
227	3RD GRADE	859 SF	20	43	29
229	4TH GRADE	861 SF	20	44	29
230	4TH GRADE	931 SF	20	47	29
231	4TH GRADE	921 SF	20	47	29
232	MEDIA CENTER	1567 SF	50	32	1
232A	BOOK STORAGE	210 SF	300	1	0
232A	COLLAB	224 SF	15	15	0
232C	OUTDOOR CLASS SPACE	512 SF	15	35	0
S200A	IDF	108 SF	300	1	0
				265	117
TOTAL OCCUPANCY				3086	773

EXIT TRAVEL DISTANCES

EXIT PATH ID	TRAVEL DISTANCE
EXIT PATH #1	241'-9"
EXIT PATH #2	85'-2"
EXIT PATH #3A	109'-9"
EXIT PATH #4	34'-9"
EXIT PATH #4A	114'-4"
EXIT PATH #5	92'-2"
EXIT PATH #6	247'-2"
EXIT PATH #7	227'-5"
EXIT PATH #8	154'-6"
EXIT PATH #11	6'-6"



1 SECOND FLOOR LIFE SAFETY PLAN
3/32" = 1'-0" A-201

PLUMBING FIXTURE COUNT

SCHOOLS-STUDENT USE: ELEMENTARY OR EDUCATIONAL: E

ACTUAL OCCUPANT LOAD: 736 — MALE OCCUPANTS: 368 — FEMALE OCCUPANTS: 368

	MALE FIXTURES REQUIRED	MALE REQUIRED	MALE ACTUAL	FEMALE FIXTURES REQUIRED	FEMALE REQUIRED	FEMALE ACTUAL
WATER CLOSET	2 PER FIRST 50 1 PER 50 AFTER	9	16	2 PER FIRST 50 1 PER 50 AFTER	9	16
URINALS	-	0	0	-	-	-
LAVATORIES	2 PER FIRST 50 1 PER 50 AFTER	9	16	2 PER FIRST 50 1 PER 50 AFTER	9	16
DRINKING FOUNTAINS	1 PER 75	REQUIRED: 10	ACTUAL: 10			
SERVICE SINKS	1 PER FLOOR AND KITCHEN	REQUIRED: 3	ACTUAL: 3			

32 TOTAL UNISEX TOILETS
32 / 2 = 16 TOILETS MALE + 16 TOILETS FEMALE
32 TOTAL LAVATORIES
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METAL FRAMED	R-13 + R7.5 CI	R-13 + R-7.35 CI
WALLS, BELOW GRADE		
BELOW-GRADE WALL	R-7.5 CI	N/A
FLOORS		
MASS	R-10 CI	N/A
JOIST/FRAMING	R-30	N/A
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ENTRANCE DOORS	0.77	0.26
VERTICAL FENESTRATION		
SHGC		
ORIENTATION	SEW / N	SEW / N
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SKYLIGHTS		
U-FACTOR	0.50	N/A
SHGC	0.40	N/A

AIA 2030 DDX - REPORTING CRITERIA

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ENERGY MODELING PARTY	ARCHITECT
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If = [F/P - .25]W/30	If = **.52**
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TOTAL BUILDING AREA (EXISTING + NEW)	88,670 SF
AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS	YES

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS

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COLUMNS	0 HR	-
BEARING WALLS		
EXTERIOR	0 HR	-
INTERIOR	0 HR	-
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR	-
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR	-
PERIMETER FIRESTOPPING AT CURTAIN WALL	-	-
PERIMETER FIRESTOPPING AT EDGE OF SLAB	-	-
FIRE WALL (TABLE 706.4)	2 HR	-
PARTY WALLS (TABLE 706.4)	0 HR	-
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	SPRINKLED
APPLICABLE CODE	IBC 2015
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- 29 ILLINOIS ADMINISTRATIVE CODE 1500 SHALL APPLY INSTEAD OF CHAPTER 4 OF THE INTERNATIONAL FIRE CODE
- PART 405.3.1 OF 2015 INTERNATIONAL PLUMBING CODE
- 77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE
- 71 ILLINOIS ADMINISTRATIVE CODE, PART 400, ILLINOIS ACCESSIBILITY CODE 2018
- FEDERAL ACCESSIBILITY CODE: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ICCNSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS (ICC 500- 2014)
- PART 180 HEALTH/LIFE SAFETY CODE FOR PUBLIC SCHOOLS
- 41 ILLINOIS ADMINISTRATIVE CODE PART 2120 BOILER AND PRESSURE VESSEL SAFETY
- NFPA 101 LIFE SAFETY CODE, 2012 EDITION

SAFETY REFERENCE NOTES

TOTAL OCCUPANT LOAD (SCHOOL)= 728 (27 CLASSROOMS AT 25 STUDENTS AND 1 TEACHER) + (26 OFFICE OR OTHER TEACHING STAFF, LIBRARIAN, RECEPTIONIST, AND KITCHEN STAFF)

TOTAL OCCUPANCY FOR FIRST FLOOR - 410
TOTAL OCCUPANCY FOR SECOND FLOOR - 318

SAFETY REFERENCE SYMBOLS & ABBREVIATIONS

ROOM NAME
101 — ROOM IDENTIFICATION NUMBER
EXIT # — PRIMARY EXIT NUMBER
ACT CALC — OCCUPANT LOAD PER MAXIMUM FLOOR AREA ALLOWANCE
ACTUAL/ANTICIPATED OCCUPANT LOAD
EXIT # — DOOR EXIT IDENTIFICATION NUMBER
ACT CALC — DOOR CALCULATED EXIT CAPACITY
DOOR ACTUAL EXIT CAPACITY
EGRESS ROUTE
EXIT PATH ID — EGRESS ROUTE IDENTIFICATION
1 - HOUR FIRE RESISTANCE RATING
2 - HOUR FIRE RESISTANCE RATING
HARDENED STORM SHELTER SHELL
AREA OF RESCUE ASSISTANCE
SP — STAND PIPE
AED — AUTOMATED EXTERNAL DEFIBRILLATOR
FACP — FIRE ALARM CONTROL PANEL
FAAP — FIRE ALARM ANNUNCIATOR PANEL
KB — KNOX BOX
TR — TRANSFORMER FOR ELECTRICAL SERVICE
E — EMERGENCY ELECTRICAL SHUT OFF
G — EMERGENCY GAS SHUT OFF
GSO — GENERATOR REMOTE SHUT OFF
FEC — FULLY RECESSED FIRE EXTINGUISHER CABINET
FECB — SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
FEC — SEMI-RECESSED FIRE EXTINGUISHER CABINET
FECB — SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
FEC — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FECB — SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
FBC — SURFACE MOUNTED FIRE BLANKET CABINET
FE — WALL MOUNTED FIRE EXTINGUISHER
SPRAY FIREPROOFING
SPRINKLERED
AREA OF 1 HOUR RATED CEILING ASSEMBLY - UL 263 (1011.7.3 IBC 2015)

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

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CODE INFORMATION & SAFETY REFERENCE PLANS

G-102

BIDDING

ABBREVIATIONS

ABB	DESCRIPTION
A/C	AIR CONDITIONING
ABV	ABOVE
AC	ARCHITECTURAL CONCRETE
ACM	ALUMINUM COMPOSITE MATERIAL
ACT	ACOUSTIC CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
ADO	AUTOMATIC DOOR OPENER
ADOP	AUTOMATIC DOOR OPENER ON PEDESTAL
AEC	ARCHITECTURALLY EXPOSED CONCRETE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIB	AIR INFILTRATION BARRIER
ALT	ALTERNATE
ALUM / AL	ALUMINUM
ANOD	ANODIZED
AOR	AREA OF REFUGE
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARA	AREA OF RESCUE ASSISTANCE
ARCH	ARCHITECTURAL
AS	ACOUSTICAL SEALANT
ASH	ADJUSTABLE SHOWER HEAD
AWP	ACOUSTIC WALL PANEL
B	BASE CABINET
BB	BOTTOM OF
BBT	BIO-BASED TILE
BD	BOARD
BF	BOTTLE FILLER
BLK	BLOCKING
BO	BY OWNER
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
CB	CATCH BASIN
CD	CORNICE DRAIN
CG	CORNER GUARD
CH	COAT HOOK
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CP	CENTER POINT
CPT	CARPET (BROADLOOM)
CPTT	CARPET TILE
CR	CARD READER
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTW	CERAMIC TILE WALL
D	DATA OUTLET
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISH	DISHWASHER
DL/D	DAYLITE OPENING
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DOMESTIC WATER
DWG	DRAWING
EA	EACH
EC	EXPOSED CONSTRUCTION
EF	EACH FACE
EH	EXHAUST HOOD
EHD	ELECTRIC HAIR DRYER
EJ	EXPANSION JOINT
EL / ELEV	ELEVATION
ELEC	ELECTRICAL
EMS	ENTRANCE MAT SYSTEMS
EP	ELECTRICAL PANEL

ABBREVIATIONS

ABB	DESCRIPTION
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR / MANUF	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM / MINUTE
MISC	MISCELLANEOUS
ML	MATCH LINE
MO	MASONRY OPENING
MP	METAL PANEL
MST	MOSAIC TILE
MSTB	MOSAIC TILE BASE
MT	METAL TRANSITION
MTD	MOUNTED
MTL	METAL
MU	MECHANICAL UNIT
MW	MICROWAVE
MWL	METAL WARDROBE LOCKER
MX	MAILBOX UNIT
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NL	NARROW LIGHT DOOR
NLR	NARROW LIGHT DOOR - RATED
NLR-2	NARROW LIGHT DOOR - RATED PAIR
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OCD	OVERHEAD COILING DOOR
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OSB	ORIENTED STRAND BOARD
OSD	OPEN SITE DRAIN
P	PHONE OUTLET
PART	PARTITION
PATT	PATTERN
PC	PRECAST CONCRETE
PCO	POLISHED CONCRETE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLWD	PLYWOOD
PNT	PAINT
PR	PAIR
PREFAB	PREFABRICATED
PSE	MOTORIZED PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSM	MANUAL PROJECTION SCREEN
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
PTD	PAPER TOWEL DISPENSER
PTD	PAINTED
PTF	PORCELAIN TILE FLOOR
PTST	PORCELAIN TILE STAIR TREAD
PTTWS	PORCELAIN TILE/TACTILE WARNING STRIP
PTW	PORCELAIN TILE WALL
PVC	POLYVINYL CHLORIDE
Q	QUAD POWER OUTLET
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RAD	RADIUS
RAL	ROOF LADDER
RB	RUBBER BASE
RBST	RUBBER STAIR TREAD
RD	ROOF DRAIN
REF	REFERENCE / REFER TO
REF	REFRIDGERATOR
REINF	REINFORCED
REQD	REQUIRED
RES	RESINOUS FLOORING
RESB	RESINOUS INTEGRAL BASE
REV	REVISION
RF	RUBBER FLOOR
RFT	RUBBER FLOOR TILE
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY

ABBREVIATIONS

ABB	DESCRIPTION
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EX / EXIST	EXISTING
EXP	EXPOSED
EXR	EXISTING TO REMAIN
F	FLUSH DOOR
FF	FACE OF
FAAP	FIRE ALARM SYSTEM ANNUNCIATOR PANEL
FAB	FABRIC
FACP	FIRE ALARM CONTROL PANEL
FAP-X	FABRIC WRAPPED ACOUSTIC PANEL - (X = THICKNESS OF THE PANEL)
FB	FACE BRICK
FBN	FLIP BENCH
FBO	FURNISHED BY OWNER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FECB	FIRE EXTINGUISHER, CABINET AND BLANKET
FF	FACTORY FINISH
FG	FULL GLASS DOOR
FG-2	FULL GLASS DOOR - PAIR
FH	FULL HEIGHT
FL	FLUSH LOUVER DOOR
FL-2	FLUSH LOUVER DOOR - PAIR
FLR	FLOOR
FOF	FACE OF FOUNDATION
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FT	FOOT / FEET
GA	GAUGE
GALV	GALVANIZED
GAS	GAS METER AND REGULATOR
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GL BLK	GLASS BLOCK
GLZ	GLAZING
GRND	GROUND
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIBB
HD	ELECTRIC HAND DRYER
HDS	HIGH DENSITY STORAGE
HDWR	HARDWARE
HG	HALF GLASS DOOR
HG-2	HALF GLASS DOOR PAIR
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HPC	HIGH PERFORMANCE COATING
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IPS	INTERIOR PAINT SYSTEM
JC	JANITOR'S CLOSET
JT	JOINT
KB	KNOX BOX
KS	KNEE SPACE
LAM	LAMINATED
LAV	LAVATORY
LIN	LINOLEUM
LP	LOW POINT
LTL	LINTEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	MIRROR
MAT'L	MATERIAL
MAX	MAXIMUM
MB#	MARKERBOARD (#DENOTES WIDTH, REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
MCM	METAL COMPOSITION MATERIAL
MD	MASONRY DIMENSION

ABBREVIATIONS

ABB	DESCRIPTION
RP	RESIN PANEL
RSE	ROLLER SHADE - MOTORIZED
RSES	SKYLIGHT ROLLER SHADE - MOTORIZED
RSL	ROLLER SHADE LEFT CONTROL
RSR	ROLLER SHADE RIGHT CONTROL
RT	RESILIENT TRANSITION
RTU	ROOF TOP UNIT
RUBR	RUBBER
SC	SHOWER CURTAIN
SD	SOAP DISPENSER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SPEC	SPECIFICATION
SPM	SINGLE PLY MEMBRANE
SQ	SQUARE
SS / ST STL	STAINLESS STEEL
SSF	SOLID SURFACE
SSG	SILICONE STRUCTURAL GLAZING
ST	SEALANT TAPE
ST	STEEL
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STT	STONE THRESHOLD
STV	STOVE
SUSP	SUSPENDED
SV	SHEET VINYL
T	TREAD
T	TALL STORAGE CABINET
TI	TOP OF
T/#	TACKBOARD (# DENOTES WIDTH; REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS)
TBR	TOWEL BAR
TC	TOILET COMPARTMENT
TD	TRENCH DRAIN
TEL	TELEPHONE
TFF	TOP OF FINISH FLOOR
THK	THICK
TP	TOILET PAPER
TPD	TOILET PAPER DISPENSER
TPO	THERMOPLASTIC OLEFIN
TRZ	TERRAZZO
TS#	TACK STRIP (# DENOTES WIDTH; REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS)
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
US	URINAL SCREEN
VB	VAPOR BARRIER
VB	VINYL BASE
VBFS	RECESSED VOLLYBALL FLOOR SLEEVE
VC	VOLUME CONTROL
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VEND	VENDING MACHINE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VENT PIPE
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WALL CABINET
W	WITH
W/D	WASHER / DRYER
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WM	WALKOFF MAT
WP	WATERPROOF
WPNL	WOOD PANEL
WPT	WORK POINT
WWF	WELDED WIRE FABRIC
YCO	YARD CLEAN OUT

GENERAL NOTES

1. ALL WORK SHALL BE COMPLIANT WITH THE CODES, ORDINANCES, AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT LOCATION.
2. THE TRADE CONTRACTORS' PERSONNEL SHALL NOT BE ALLOWED ON THE PROJECT SITE WITHOUT COMPLYING WITH THE OWNER'S SECURITY PROTOCOLS.
3. WHERE CONFLICTS EXIST WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES, ORDINANCES, AND REGULATIONS THE MORE STRINGENT OR HIGH QUALITY OR GREATER QUALITY REQUIREMENT(S) SHALL APPLY. LARGE-SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL-SCALE DRAWINGS; FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS, AND NOTED MATERIALS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS.
4. THE CONTRACT DOCUMENTS IDENTIFY THE MINIMUM AMOUNT OF WORK REQUIRED. TRADE CONTRACTORS SHALL PROVIDE THE EXTENT OF WORK NECESSARY FOR A COMPLETE INSTALLATION.
5. REFER TO THE PROJECT MANUAL FOR PRODUCTS, MATERIALS, AND PROCEDURES NOT IDENTIFIED ON THE CONTRACT DRAWINGS.
6. THE ACTUAL AREA(S) OF WORK SHALL BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS. EXISTING DIMENSIONS AND HATCHED AREAS INDICATED ON CONTRACT DOCUMENTS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY.
7. PRIOR TO BIDDING, THE TRADE CONTRACTORS SHALL FIELD VERIFY THE EXTENT OF WORK REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS. ADDITIONAL WORK THAT IS REQUIRED, WAS VISIBLE, AND COULD HAVE BEEN IDENTIFIED DURING BIDDING SHALL BE COMPLETED BY THE RESPONSIBLE TRADE CONTRACTORS AT NO ADDITIONAL COST TO THE OWNER.
8. THE TRADE CONTRACTORS SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OR CONSTRUCTION MANAGER OF ANY CONFLICTS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO PREPARING SUBMITTALS OR BEGINNING ANY WORK.
9. THE TRADE CONTRACTORS SHALL PROVIDE ALL TEMPORARY CONSTRUCTION AND/OR SHORING REQUIRED TO PROPERLY EXECUTE THE REQUIREMENTS OF THEIR CONTRACT.
10. ALL EXTERIOR OPENINGS SHALL BE SECURED AT ALL TIMES WHEN WORK IS NOT BEING PERFORMED. THE TRADE CONTRACTORS SHALL NOT REMOVE EXISTING DOORS, FRAMES, WINDOWS. ETC. UNTIL REPLACEMENTS ARE ONSITE AND READY FOR INSTALLATION. IF INSTALLATION OF DOORS, FRAMES, WINDOWS, ETC. CANNOT BE COMPLETED BY THE END OF THE WORK DAY, THE RESPONSIBLE TRADE CONTRACTORS SHALL PROVIDE TEMPORARY WEATHERPROOF CONSTRUCTION AS REQUIRED TO SECURE THE BUILDING TO THE SATISFACTION OF THE OWNER AND RESTORE AFFECTED SURFACES TO THEIR ORIGINAL CONDITION.
11. PATCHING, REPAIRING, AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE EXISTING ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE IN MATERIAL, FINISH, COLOR, TEXTURE AND SHEEN. REFER TO THE CONTRACT DRAWINGS FOR EXISTING BUILDING CONSTRUCTION TO REMAIN.
12. TRADE CONTRACTORS SHALL PROTECT THEIR WORK AND EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT TO REMAIN TO PREVENT DAMAGE. ANY WORK AND/OR EXISTING FINISHES TO REMAIN DAMAGED DURING THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED, AND REFINISHED BY THE RESPONSIBLE TRADE CONTRACTOR TO MATCH THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
13. THE ARCHITECT SHALL REVIEW AND APPROVE LOCATIONS FOR ALL JUNCTION BOXES AND RACEWAYS PRIOR TO INSTALLATION OF WIRING / CABLING.
14. EXISTING SITE FEATURES, MATERIALS, AMENITIES, LANDSCAPING, ETC. DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED, REPAIRED, OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

15. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL PARTIES INVOLVED SO THAT THE CONSTRUCTION CAN PROCEED SMOOTHLY, WITHOUT TRADE INTERFERENCE OR WASTE OF TIME AND MATERIAL.

16. WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

GENERAL CONSTRUCTION / RENOVATION NOTES

1. AFTER REMOVAL OF ITEMS IDENTIFIED TO BE REMOVED, CLEAN AND REPAIR THE EXISTING SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS. FINISHES TEXTURE, PATTERN, COLOR AND SHEEN OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED.
2. WHERE EXISTING EQUIPMENT IS REMOVED AND NEW EQUIPMENT IS SMALLER AND INSTALLED IN THE SAME LOCATION, CLEAN AND REPAIR THE SIGHT-EXPOSED SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHED TEXTURE, PATTERN, AND COLOR OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED.
3. EXISTING AND NEW FIRE RATED ASSEMBLIES ARE TO BE MAINTAINED AND BE IN CONFORMANCE WITH APPLICABLE CODES. PENETRATIONS SHALL BE CONSTRUCTED AND SEALED AS REQUIRED. NEW FIRE RATED ASSEMBLIES SHALL BE INSPECTED, CERTIFIED, AND APPROPRIATELY LABELED ABOVE CEILINGS.
4. ALL PENETRATIONS THROUGH ANY MATERIAL SHALL BE SEALED WITH A COMPATIBLE MATERIAL APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
5. MASONRY INFILL AND/OR PATCHING SHALL MATCH THE MATERIAL, SIZE, FINISH, COLOR, TEXTURE AND COURSING OF EXISTING MASONRY TO REMAIN. NEW MASONRY SHALL BE WHOLE UNITS TOOTHED IN TO THE EXISTING MASONRY. NO SAW CUT EDGES WILL BE ALLOWED. MORTAR JOINTS TO MATCH COLOR, TEXTURE AND PROFILE OF ADJACENT MASONRY.
6. STRUCTURAL LINTELS ARE REQUIRED AT ALL OPENINGS AND RECESSES IN LOAD BEARING AND NON-LOAD BEARING MASONRY WALLS. REFER TO STRUCTURAL DRAWINGS.
7. EXPOSED OUTSIDE CORNERS OF INTERIOR CONCRETE MASONRY UNITS SHALL BE ROUNDED, U.N.O.
8. PROVIDE A CONTINUOUS BEAD OF SEALANT BETWEEN DISSIMILAR MATERIALS, U.N.O.
9. PROVIDE GALVANIC PROTECTION SEPARATING DISSIMILAR METALS.
10. ALL EXPOSED PIPING AND CONDUIT SHALL BE KEPT AS CLOSE AS POSSIBLE TO WALLS STRUCTURE, AND FLOOR/ROOF DECK.
11. ALL WALLS ABOVE DOORS/FRAMES TO EXTEND TO UNDERSIDE OF DECK, U.N.O.
12. ALL EXTERIOR DIMENSIONS ARE TO THE OUTSIDE FACE OF FINISH MATERIAL, U.N.O.
13. SLOPE ALL CONCRETE AND/OR TOPPING TO FLOOR DRAINS; COORDINATE WITH PLUMBING DRAWINGS.
14. CENTER SPRINKLER HEADS AND LIGHT FIXTURES, SECURITY DEVICES, WAPS, EXIT SIGNS, & SIMILAR DEVICES IN ACT TILES, U.N.O.
15. INSTALL WOOD BLOCKING AS NEEDED FOR ALL WALL MOUNTED ITEMS.

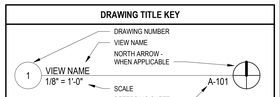
GENERAL FINISH NOTES

1. EXISTING SIGHT-EXPOSED SURFACES OF EXISTING PARTITIONS AND SOFFITS SHALL BE FINISH PAINTED.
2. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE FINISH PLANS AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION. NEW PARTITIONS AND SOFFITS ARE TO BE SMALLER AND INSTALLED IN THE SAME LOCATION. CLEAN AND REPAIR THE SIGHT-EXPOSED SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHED TEXTURE, PATTERN, AND COLOR OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED.
3. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
   A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING PLASTER AND CONCRETE BLOCK WALLS.
   B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT; AND
   C. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
4. IN OCCUPIED SPACES IN AREAS OF RENOVATION, ALL SIGHT-EXPOSED MEPFP COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DO NOT PAINT MOVING PARTS OR LABELS.
5. DO NOT PAINT EXISTING FACE BRICK, GROUND FACE CMU OR SGFT, UNO.

GENERAL REFLECTIVE CEILING NOTES

1. ALL CEILING ELEVATIONS IDENTIFIED DENOTE HEIGHT ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY DRAWINGS FOR CEILING MOUNTED EQUIPMENT AND COMPONENTS NOT IDENTIFIED ON ARCHITECTURAL DRAWINGS.
3. IN AREAS WITH NO FINISHED CEILING SYSTEM REFER TO ELECTRICAL DRAWINGS FOR LUMINARIES AND SPACING.
4. REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING:
   A. PAINTING OF CEILING COMPONENTS.
   B. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM TYPES TO BE PROVIDED
   C. CEILING HUNG WINDOW TREATMENTS
5. PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF EXISTING CONDITIONS PREVENT NEW CEILING SYSTEMS FROM BEING INSTALLED AS DRAWN AND NOTED.
6. PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF QUANTITY AND/OR SPACING OF LIGHT FIXTURES ON ELECTRICAL DRAWINGS DOES NOT MATCH QUANTITY AND/OR SPACING OF LIGHT FIXTURES ON ARCHITECTURAL DRAWINGS.
7. LIGHT FIXTURES IN CORRIDORS ARE TO BE CENTERED IN THE WIDTH OF THE CORRIDOR UNLESS NOTED OTHERWISE.
8. ALL CEILING TILES SHALL BE TYPE 1 UNLESS NOTED OTHERWISE:
   A. PROVIDE TYPE 2 CEILING TILES IN TOILET ROOMS.
9. PAINT ALL GYPSUM CEILINGS

DRAWING TITLE KEY



MATERIAL PATTERN LEGEND

CUT PATTERNS

ALUMINUM
BRICK
CONCRETE
CONCRETE MASONRY UNIT / BLOCK
EARTH - UNDISTURBED
EARTH - TOP SOIL / BACKFILL
GRAVEL
GYPSUM BOARD
GROUT
PLASTIC LAMINATE
PLYWOOD
RIGID INSULATION
SOLID SURFACE
SPRAY FOAM INSULATION
STEEL

SURFACE PATTERNS

BRICK
CONCRETE MASONRY UNIT / BLOCK
CONCRETE
GYPSUM BOARD
METAL MESH
RUBBER TACTILE WARNING PAD

LINE TYPES

BEYOND
CENTER; GRID
DEMOLITION
EXISTING (HALFTONE)
HIDDEN
MATCHLINE
NEW (CUT)
NEW (PROJECTION)
OVERHEAD

TYPICAL MOUNTING HEIGHTS

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

1015 16th Avenue
Moline, IL 61265

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	BE
REVIEWED BY	ZC

SYMBOLS AND PROJECT GENERAL NOTES

G-201

BIDDING

EXISTING TOPOGRAPHIC/UTILITIES

- EXISTING PROPERTY LINE
- EXISTING EASEMENT LINE
- EXISTING SETBACK LINE
- EXISTING FENCE LINE
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND GAS LINE
- EXISTING WATER MAIN OR SERVICE
- EXISTING STORM SEWER/CULVERT
- EXISTING SANITARY SEWER
- EXISTING TELEPHONE RISER
- EXISTING CABLE TV RISER
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING GAS METER
- EXISTING WATER VALVE
- EXISTING CURB BOX
- EXISTING FIRE HYDRANT
- EXISTING STORM SEWER INTAKE
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY MANHOLE
- SIGN

CONTOUR LINES

- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- PROPOSED MAJOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE

COMMON ABBREVIATIONS

PCC	PORTLAND CEMENT CONCRETE
HMA	HOT MIX ASPHALT
DIP	DUCTILE IRON PIPE
RCP	REINFORCED CONCRETE PIPE
PVC	POLY VINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE
PE	POLYETHYLENE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
IDOT	IOWA DEPARTMENT OF TRANSPORTATION
SUDAS	STATEWIDE URBAN DESIGN AND SPECIFICATIONS
EX	EXISTING GROUND ELEVATION
TW	TOP OF SIDEWALK ELEVATION
FG	FINAL GRADE ELEVATION
TC	TOP OF CURB ELEVATION
FL	FLOWLINE ELEVATION
HP	HIGH POINT
R.O.W.	RIGHT-OF-WAY

PROPOSED TOPOGRAPHIC/UTILITIES

- PROPOSED HANDRAIL
- PROPOSED FENCE LINE
- PROPOSED TELEPHONE LINE
- PROPOSED FIBER OPTIC LINE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED UNDERGROUND GAS LINE
- PROPOSED WATER MAIN OR SERVICE
- PROPOSED STORM SEWER/CULVERT
- PROPOSED SANITARY SEWER

SEWER, WATER, & UTILITY SYMBOLS

- PROPOSED LIGHT POLE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- SIGN
- PROPOSED OPEN DITCH/AREA INTAKE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY MANHOLE

CITY OF MOLINE STANDARD DETAILS

DETAIL NUMBER	DETAIL DESCRIPTION
2	INTEGRAL CURB DETAIL
3	MANHOLE BOX OUT DETAIL
4	JOINT TYPE & LAYOUT DETAIL
5	CONSTRUCTION JOINT & EXPANSION JOINT DETAIL
6	LONGITUDINAL JOINT & EXPANSION JOINT DETAIL
7	LONGITUDINAL JOINT & TRANSVERSE JOINT DETAIL
8	RESIDENTIAL/COMMERCIAL DRIVEWAY & SIDEWALK DETAILS
9	TYPICAL BOULEVARD SECTIONS DETAIL
10	TYPICAL BOULEVARD SECTIONS DETAIL
11	PAVEMENT PATCHING DETAIL
12	REMOVE & REPLACE COMBINATION CURB & GUTTER
13	TYPICAL ADJUSTMENT DETAIL
19	BEDDING AND TRENCH BACKFILL
20	BEDDING AND TRENCH BACKFILL PVC, CORRUGATED PVC & HP PIPE
21	INLET SINGLE/DOUBLE DETAIL
24	STORM WATER ALLEY INLET
32	TRACE WIRE DETAIL
33	TRACE WIRE MARKER POST
34	TRACER WIRE DIRECT BURY CONNECTION

GENERAL NOTES AND PROJECT SPECIFICATIONS

1. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PROVIDE CONSTRUCTION DOCUMENT FOR A GENERAL CONTRACTOR UNDER CONTRACT WITH MOLINE COAL VALLEY SCHOOL DISTRICT.
2. CONSTRUCTION STAKING WILL BE PROVIDED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
3. THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF MOLINE REQUIREMENTS, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", LATEST ADDITION; THE CONTRACT DOCUMENTS AND THESE DRAWINGS & SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER FOR THE CITY OF MOLINE AND ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND PAVED STREETS, INCLUDING ANY NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY CONFLICTS WITH THE DRAWINGS OCCUR. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY TRENCHING AND GRADING OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. IT IS POSSIBLE THAT THERE ARE OTHERS UTILITIES WHOSE EXISTENCE IS PRESENTLY NOT KNOWN OR SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AND TO AVOID DAMAGE THERETO. MINOR CONFLICT WITH UNDERGROUND UTILITIES THAT ARE ABANDONED BUT NOT REMOVED BY THE UTILITY COMPANY SHALL BE REMOVED AS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT BY THE CONTRACTOR. REMOVAL SHALL BE INCIDENTAL TO THE CONTRACT AND SHALL NOT ENTITLE THE CONTRACTOR TO ANY EXTRA COMPENSATION.
6. THE CITY AND UTILITY COMPANIES SHALL HAVE ACCESS TO THE PROJECT FOR CONSTRUCTION AND TO MAKE EXTENSIONS OR ADJUSTMENTS OF SERVICES. NO CLAIM FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
7. ALL UNSUITABLE MATERIAL, CONSTRUCTION DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS, AND EXISTING PAVEMENT, SIDEWALKS AND DRIVEWAY PAVEMENT SCHEDULED FOR REMOVAL SHALL BE PROPERLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS AND GUIDELINES. THE CONTRACTOR SHALL DISPOSE OF REMOVED CONCRETE IN A METHOD APPROVED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS OR UNDESIRABLE MATERIAL, WHICH IS NOT TO BE INCORPORATED IN THE WORK INVOLVED IN THIS PROJECT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.
9. EROSION CONTROL FEATURES SHALL BE INCORPORATED INTO THE CONSTRUCTION AT THE EARLIEST POSSIBLE TIME TO LIMIT EROSION AND STREAM POLLUTION AND SHALL BE MAINTAINED UNTIL ACCEPTANCE OF THE PROJECT BY THE CITY.
10. ALL STORM SEWER INLETS THAT RECEIVE DRAINAGE FROM EXPOSED EARTH AREAS SHALL BE PROTECTED FROM INTAKE OF ERODED SOIL WITH COMPOST FILTER SOCK OR OTHER ACCEPTABLE INLET PROTECTION MEASURES. THE INLET PROTECTION SHALL BE MAINTAINED ACCORDING TO THE PROJECT SWPPP.
11. WHEN NOT INITIATED AT AN EXISTING JOINT, REMOVAL OF EXISTING CONCRETE PAVEMENT, ASPHALT OR CONCRETE DRIVES AND SIDEWALKS SHALL BE INITIATED WITH FULL DEPTH SAW CUTS, EXERCISING EXTREME CARE TO AVOID SURFACE BREAKS AND SPALLING. IF SURFACE BREAKS OR SPALLING OCCUR, ADDITIONAL REMOVAL AND REPLACEMENT SHALL BE MADE AT THE CONTRACTOR'S EXPENSE. THE COST OF SAW CUTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION.
12. ALL PROPOSED CONCRETE JOINTS TO BE SEALED PER THE SPECIFICATIONS
13. THE CONTRACTOR SHALL PREVENT SILT AND DEBRIS FROM ENTERING STORM AND SANITARY SEWERS AND SHALL REMOVE ANY SUCH MATERIAL THAT ENTERS THE SEWERS. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
14. CARE SHALL BE TAKEN TO PREVENT STORM WATER FROM UNDERMINING THE PAVEMENT DURING CONSTRUCTION. IF AREAS BECOME UNDERMINED, THEY SHALL BE REPAIRED IN A MANNER ACCEPTABLE TO THE ENGINEER. PRESSURE GROUTING MY BE REQUIRED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ADJACENT STREETS AND PROPERTY FREE FROM EXCESSIVE BUILD-UP OF SOIL AND/OR GRANULAR MATERIAL FROM THE PROJECT. THE CONTRACTOR SHALL CLEAN EXCESS SOIL AND OTHER MATERIAL FROM THE ADJACENT STREETS ON A DAILY BASIS TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE DONE TO EXISTING STREETS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
16. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT THE SPREAD OF DUST FROM THE CONSTRUCTION AREAS AND HAUL ROUTES, WHICH MAY INCLUDE THE APPLICATION OF WATER AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
17. SPECIAL CARE SHALL BE TAKEN WHEN FORMING AT INTERSECTIONS SO THAT THE PROFILES AND GRADES OBTAINED ARE AS SHOWN ON THE PLANS AND GRADE SHEETS. SHORT LENGTH OF FORMS OR FLEXIBLE FORMS MAY BE NECESSARY AT THESE LOCATIONS.
18. ANY PROPERTY DAMAGE OR DISTURBANCE TO PRIVATE PROPERTY OUTSIDE OF GRADING/CONSTRUCTION LIMITS SHALL REQUIRE THE CONTRACTOR TO RESTORE THE PROPERTY TO ORIGINAL OR BETTER CONDITION AT HIS OWN EXPENSE.
19. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE ENCOUNTERED BETWEEN THE PLANS AND SPECIFICATIONS AND THE EXISTING FIELD CONDITIONS.
20. CONSTRUCTION STAKING, INSPECTION AND TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
21. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAILS AND STANDARDS SHOWN IN THESE PLANS AND THE CONTRACT DOCUMENTS, AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D).
22. PROPERTY CORNERS SHALL BE PROTECTED DURING CONSTRUCTION. PROPERTY CORNERS DISTURBED BY CONTRACTOR OPERATIONS SHALL BE REPLACED AT HIS OWN EXPENSE.
23. ALL DIMENSIONS AND RADIUS MEASUREMENTS ARE TO THE BACK OF CURB UNLESS OTHERWISE SHOWN.
24. TRENCH BACKFILL IS REQUIRED FOR ALL TRENCHES WITHIN A 1:1 SLOPE OF PAVEMENT.
25. ALL STORM SEWER SHALL BE A2000 PVC, N12 HDPE, OR APPROVED EQUAL. VERIFY SIZE AND MATERIAL TYPE WITH LOCAL PLUMBING CODE.
26. ALL WATER MAIN SHALL BE C350 DIP, SDR 21 PVC, DR18 PVC, OR APPROVED EQUAL. VERIFY SIZE AND MATERIAL TYPE WITH LOCAL PLUMBING CODE.
27. ALL SANITARY LATERALS LESS THAN 8 INCHES IN DIAMETER SHALL BE PVC SDR 23.5 OR APPROVED EQUAL WITH INTEGRAL BELL AND SPIGOT PUSH ON JOINTS WITH RUBBER GASKETS. PIPE SHALL COMPLY WITH ASTM D-3034 AND GASKETS SHALL MEET ASTM D-3213. PIPE SHALL HAVE A STIFFNESS OF 115 PSI.

UTILITY NOTES

23. THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES.
24. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE.
25. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
26. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITY MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY AND OWNER.
27. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
28. THE OWNER AND THE UTILITY COMPANIES SHALL HAVE ACCESS TO THE PROJECT FOR CONSTRUCTION AND TO MAKE EXTENSIONS OR ADJUSTMENTS OF SERVICES. NO CLAIM FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OF DELAY CAUSE BY SUCH WORK.
29. HORIZONTAL AND VERTICAL SEPARATION OF SEWER AND WATER SHALL BE IN ACCORDANCE WITH STANDARD DETAILS 18-24 FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.
30. TESTING OF SANITARY SEWER SHALL BE IN ACCORDANCE WITH SECTIONS 31 AND 32 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.
31. PRESSURE TESTING, LEAKAGE TESTING, AND DISINFECTION OF WATER MAIN SHALL BE IN ACCORDANCE WITH SECTION 41 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.

GRADING NOTES

1. EXISTING VEGETATION AND ROOT ZONE SHALL BE COMPLETELY STRIPPED REGARDLESS OF DEPTH. AN AVERAGE DEPTH OF APPROXIMATELY 6 INCHES IS ANTICIPATED, HOWEVER NO ADDITIONAL COMPENSATION WILL BE PAID FOR VARIATIONS IN THE DEPTH. TOPSOIL SHALL THEN BE STOCKPILED ON SITE TO BE RE-USED AS NON-STRUCTURAL FILL(SEE GRADING QUANTITY TABLE) AND RE-SPREAD PRIOR TO SEEDING/SODDING; EXCESS SOIL SHALL BE DISPOSED OFF-SITE.
2. EMBANKMENT FILL SHALL BE OF A MATERIAL THAT WILL COMPACT AND DEVELOP A STABILITY SATISFACTORY TO THE ENGINEER. COMPACTION SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND STANDARD SPECIFICATIONS.
3. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. DO NOT ALLOW WATER TO DRAIN OR TO POND ONTO PRIVATE PROPERTY.
4. THE EXPOSED SUBGRADE SHALL BE PROOF-ROLLED THOROUGHLY TO DETECT ANY UNSUITABLE AREAS. AT THE DIRECTION OF THE ENGINEER, THESE REGIONS SHALL BE STABILIZED TO MEET DENSITY REQUIREMENTS BY CORING OUT AND REPLACING WITH STABILIZATION ROCK OR OTHER METHOD ACCEPTABLE TO THE ENGINEER.
5. ALL UNSUITABLE MATERIAL, SEAL COAT, ASPHALT, CONCRETE, ETC. SHALL BE PROPERLY DISPOSED OF OFF SITE.
6. ALL DISTURBED AREAS NOT DESIGNATED TO RECEIVE PLANTINGS SHALL BE SEEDED WITH AN ILDOT CLASS 1 PERMANENT LAWN MIXTURE PLACED ON A PREPARED SEEDBED AND SHALL BE FERTILIZED AND MULCHED IN ACCORDANCE WITH ILDOT SPECIFICATIONS. ALL AREAS TO BE SEEDED SHALL ALSO RECEIVE A MINIMUM 6 INCHES OF TOPSOIL IN ACCORDANCE WITH NPDES GENERAL PERMIT #2.
7. THE ESTIMATED EARTHWORK QUANTITIES SHOWN ON THE GRADING PLAN ARE FOR THE BENEFIT OF THE CONTRACTOR AND SHOULD BE FIELD AND PLAN VERIFIED PRIOR TO BIDDING. PAYMENT FOR SUCH ITEMS SHALL BE BY PLAN QUANTITY AND NO FURTHER COMPENSATION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER UNLESS THERE IS AN APPROVED REVISION IN THE PLANS.
8. CLEAR AND GRUB ALL EXISTING VEGETATION IN THE AREA OF THE CONSTRUCTION LIMITS.

EROSION CONTROL NOTES

1. ALL EROSION CONTROL FEATURES SHALL BE IN ACCORDANCE WITH THE ILDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," AND CITY OF MOLINE STANDARD SPECIFICATIONS IN SO FAR AS APPLICABLE.
2. VEHICLE TRACKING CONTROL MEASURES SHALL BE PLACED TO LIMIT MUD/DEBRIS FROM CITY STREETS.
3. INSTALL EROSION CONTROL MEASURES, WHERE POSSIBLE, PRIOR TO THE COMMENCEMENT OF ANY EARTH DISTURBING OPERATIONS. ANY REMAINING CONTROL MEASURES MUST BE INSTALLED AS SOON AS REASONABLY POSSIBLE AFTER GRADING OPERATIONS BEGIN.
4. THE CONTRACTOR SHALL DESIGNATE, PRIOR TO BEGINNING CONSTRUCTION, A PERSON OR PERSONS WHO CAN BE CONTACTED IN AN EMERGENCY. THESE PEOPLE SHALL BE AVAILABLE TO REPAIR AND MAINTAIN EROSION DEVICES ON A 24 HOUR PER DAY BASIS. THE GENERAL CONTRACTOR SHALL BE INSPONSIBLE FOR CONDUCTING INSPECTIONS OF THE EROSION CONTROL SYSTEM AS REQUIRED BY THE NPDES PERMIT AND STORM WATER POLLUTION PREVENTION PLAN.
5. IN AN EFFORT TO LIMIT SOIL EROSION THE FOLLOWING SEQUENCE OF GRADING ACTIVITY AND TEMPORARY SEDIMENT CONTROL MEASURES ARE REQUIRED.
   - 5.1. PLACE SILT FENCE AT THE TOE OF UNSEEDED/UNSODDED SLOPES DURING CONSTRUCTION. ADDITIONAL SILT FENCE MAY BE REQUIRED FOR PROPER EROSION CONTROL.
   - 5.2. ONCE FINAL SUBGRADE ELEVATIONS ARE OBTAINED, PAVING OPERATIONS CAN PROCEED. MAINTAIN SILT FENCING DURING PAVING OPERATIONS AS MUCH AS PRACTICAL.
   - 5.3. TEMPORARY STOCK PILES SHALL BE GRADED TO DRAIN WITH A MAXIMUM SIDE SLOPE OF 3 HORIZONTAL TO 1 VERTICAL.
   - 5.4. UPON COMPLETION OF PAVING AND LANDSCAPING OPERATIONS CONTRACTOR SHALL CLEAN STORM SEWER SYSTEMS OF DEBRIS AND SILT.
   - 5.5. EROSION CONTROL SYSTEM TO BE MAINTAINED BY THE GENERAL CONTRACTOR AFTER EACH RAINFALL EVENT AND THROUGHOUT THE COURSE OF THE PROJECT AND REMOVED UPON PROJECT COMPLETION AFTER AN ADEQUATE STAND OF GRASS HAS BEEN ESTABLISHED.
6. FOR TEMPORARY SEEDING OR INACTIVITY OF 14 DAYS, THE ENTIRE AREA THAT WAS DISTURBED SHALL BE IMMEDIATELY SEEDED WITH OATS AT A RATE OF 65LBS/ACRE AND ANNUAL RYE GRASS AT A RATE OF 40LBS/ACRE OR APPROVED EQUAL. THIS SHALL BE PLACED ON A PREPARED SEEDBED. THE ENTIRE AREA SHALL BE FERTILIZED AT THE RATE OF 600 POUNDS PER ACRE WITH A 13-13-13 FERTILIZER INCORPORATED INTO THE SEEDBED. AT THE CONCLUSION OF THE GRADING OPERATIONS PERMANENT SEEDING SHALL BE PLACED PER ILDOT STANDARD SPECIFICATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EROSION CONTROL MEASURES ONCE EACH WEEK. EROSION CONTROL MEASURES SHALL BE MAINTAINED OR, IF NEEDED, REPLACED SO THEY WILL FUNCTION AS ORIGINALLY DESIGNED. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE CITY SOIL EROSION INSPECTOR AND REPORT THE STATUS OF ALL EROSION CONTROL MEASURES AFTER INCOMPLIANT INSPECTIONS. EROSION CONTROL INSPECTION RECORDS SHALL BE KEPT DETAILING ALL ACTIVITIES AND INSPECTIONS THROUGHOUT THE COURSE OF CONSTRUCTION ACTIVITIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE EROSION CONTROL MEASURES AND RECORDS UNTIL PAVING OPERATIONS ARE COMPLETE AFTER WHICH THE BUILDING CONTRACTOR IS RESPONSIBLE UNTIL NO LESS THAN 70% PERMANENT GROUND COVER IS ACHIEVED AT WHICH TIME ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED. ONCE ALL TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, A NOTICE OF DISCONTINUATION OF CONSTRUCTION ACTIVITY SHALL BE FILED.
9. THE ENGINEER ASSUMES THAT PROPER MAINTENANCE OF THE UNDERGROUND DETENTION BASIN WILL BE PERFORMED BY THE OWNER, AND THAT DOWNSTREAM PROPERTIES WILL EXPERIENCE NO ADVERSE EFFECTS FROM THIS DEVELOPMENT.
10. ALL AREAS WHERE CONCRETE WAS REMOVED TO BE REGRADED AND SEEDED.

WATER PERMITTING NOTES

1. ALL WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ILLINOIS WATER & SEWER STANDARD SPECIFICATIONS & THE CITY OF MOLINE STANDARD SPECIFICATIONS.
2. THRUST BLOCKING IS REQUIRED FOR WATER MAIN INSTALLATION AND SHALL BE DONE PER ILLINOIS WATER & SEWER STANDARD SPECIFICATIONS & THE CITY OF MOLINE STANDARD SPECIFICATIONS.
3. DISINFECTION OF WATER MAIN SHALL BE DONE PER ILLINOIS WATER & SEWER STANDARD SPECIFICATIONS & THE CITY OF MOLINE STANDARD SPECIFICATIONS.
4. PRESSURE AND LEAKAGE TESTS ON WATER MAIN SHALL BE DONE PER ILLINOIS WATER & SEWER STANDARD SPECIFICATIONS & THE CITY OF MOLINE STANDARD SPECIFICATIONS.
5. WATER AND SEWER SEPARATION SHALL BE A MINIMUM OF 10 FEET APART. WITH 18 INCHES OF VERTICAL SEPARATION.

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LINCOLN - IRVING ADDITION AND RENOVATION

SIGNATURE

DATE 10/22/25

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/25
DRAWN BY	MAR
REVIEWED BY	MWJ

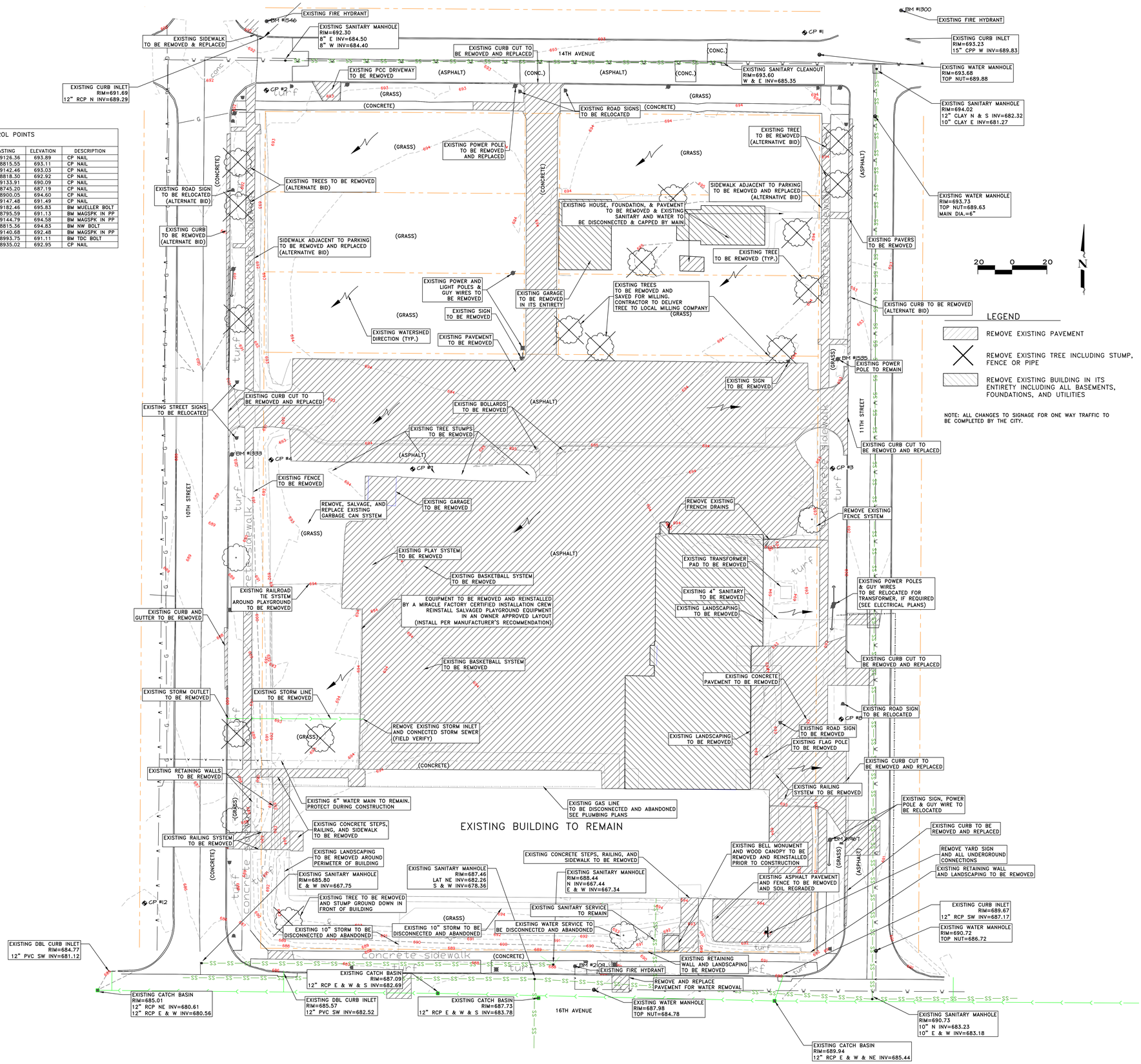
LEGEND AND NOTES

C-001

BIDDING

PLOTTED: 10/22/2025

T:\CIVIL PROJECTS\2022 LEGAT LINCOLN IRVING SCHOOL MOLINE\CAD FILES\SHEETS\02 NOTES DETAILS.DWG



CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1759945.48	2199126.36	693.89	CP NAIL
2	1759912.21	2198815.55	693.11	CP NAIL
3	1759693.79	2199142.46	693.03	CP NAIL
4	1759698.79	2198818.30	692.92	CP NAIL
5	1759360.85	2199133.91	690.09	CP NAIL
6	1759442.71	2198745.20	687.19	CP NAIL
7	1759693.50	2198900.05	694.60	CP NAIL
8	1759549.04	2199147.48	691.49	CP NAIL
1300	1759958.73	2199182.46	695.83	BM MUELLER BOLT
1333	1759701.80	2198795.59	691.13	BM MAGSPK IN PP
1535	1759756.43	2199144.79	694.58	BM MAGSPK IN PP
1546	1759952.43	2198815.36	694.83	BM NW BOLT
1967	1759478.80	2199140.68	692.48	BM MAGSPK IN PP
2109	1759406.33	2198993.75	691.11	BM TDC BOLT
RTCM0001	1759945.66	2198935.02	692.95	CP NAIL

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DRAWN BY MAR
REVIEWED BY MWJ

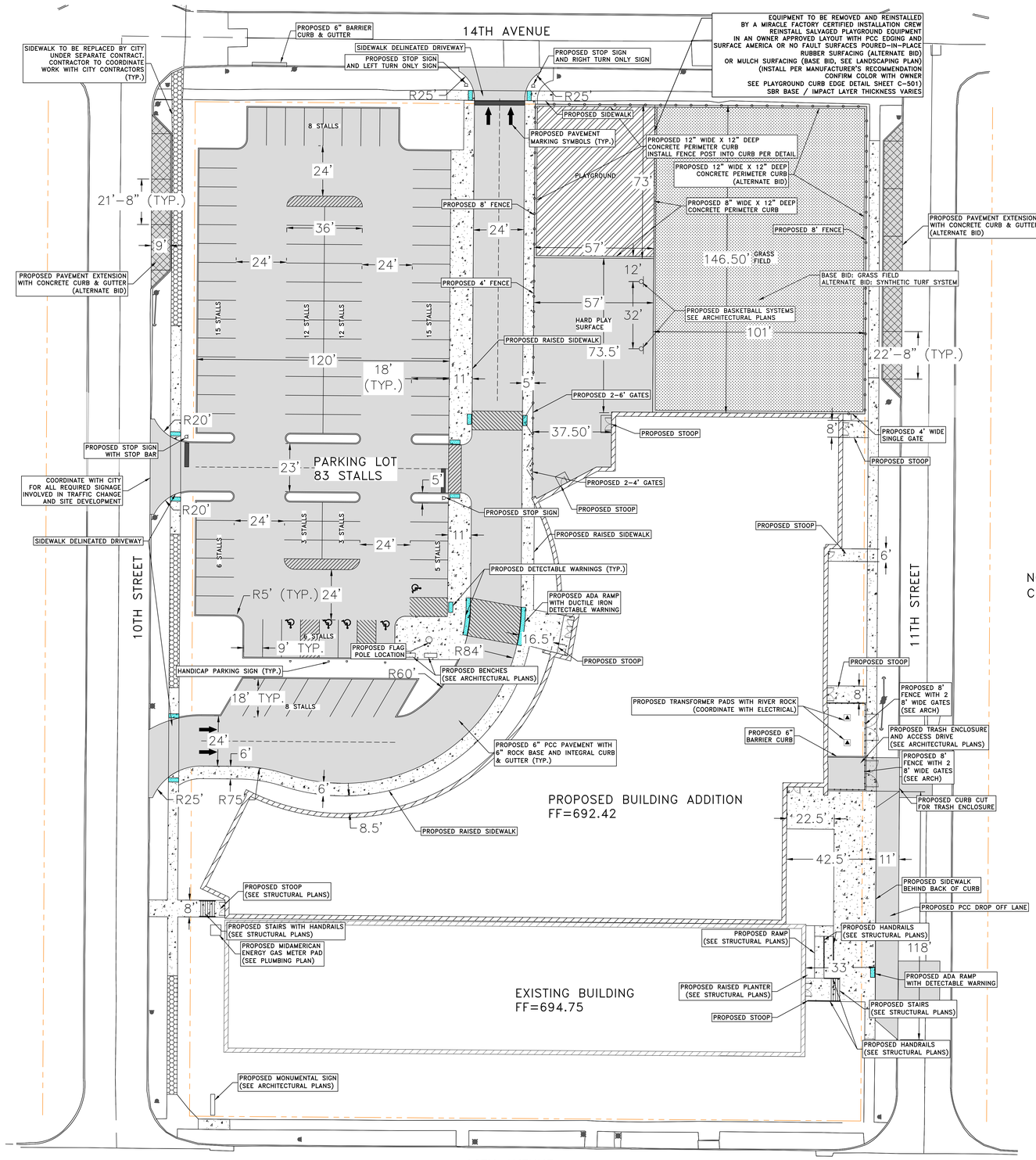
EXISTING SITE AND REMOVAL PLAN

C-101

BIDDING

PLOTTED: 10/22/2025

K:\LMCSD PROJECTS\2022 LINCOLN IRVING SCHOOL RENOVATION PLAN SHEETS\2022 EXISTING SITE.DWG



NOTE: ALL PROPOSED CURB & GUTTER SHALL BE 6" SLOPED CURBS EXCEPT STREET CURBS SHALL BE 6" BARRIER CURBS.

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Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

1015 16th Avenue
Moline, IL 61265

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www.legat.com

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FOOD SERVICE CONSULTANT
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CONSTRUCTION MANAGER
Estes Construction
131 W 2nd Street, Suite 400
Davenport, IA 52803
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www.estesconstruction.com

SIGNATURE

DATE 10/22/25

REVISIONS

NO.	DESCRIPTION	DATE

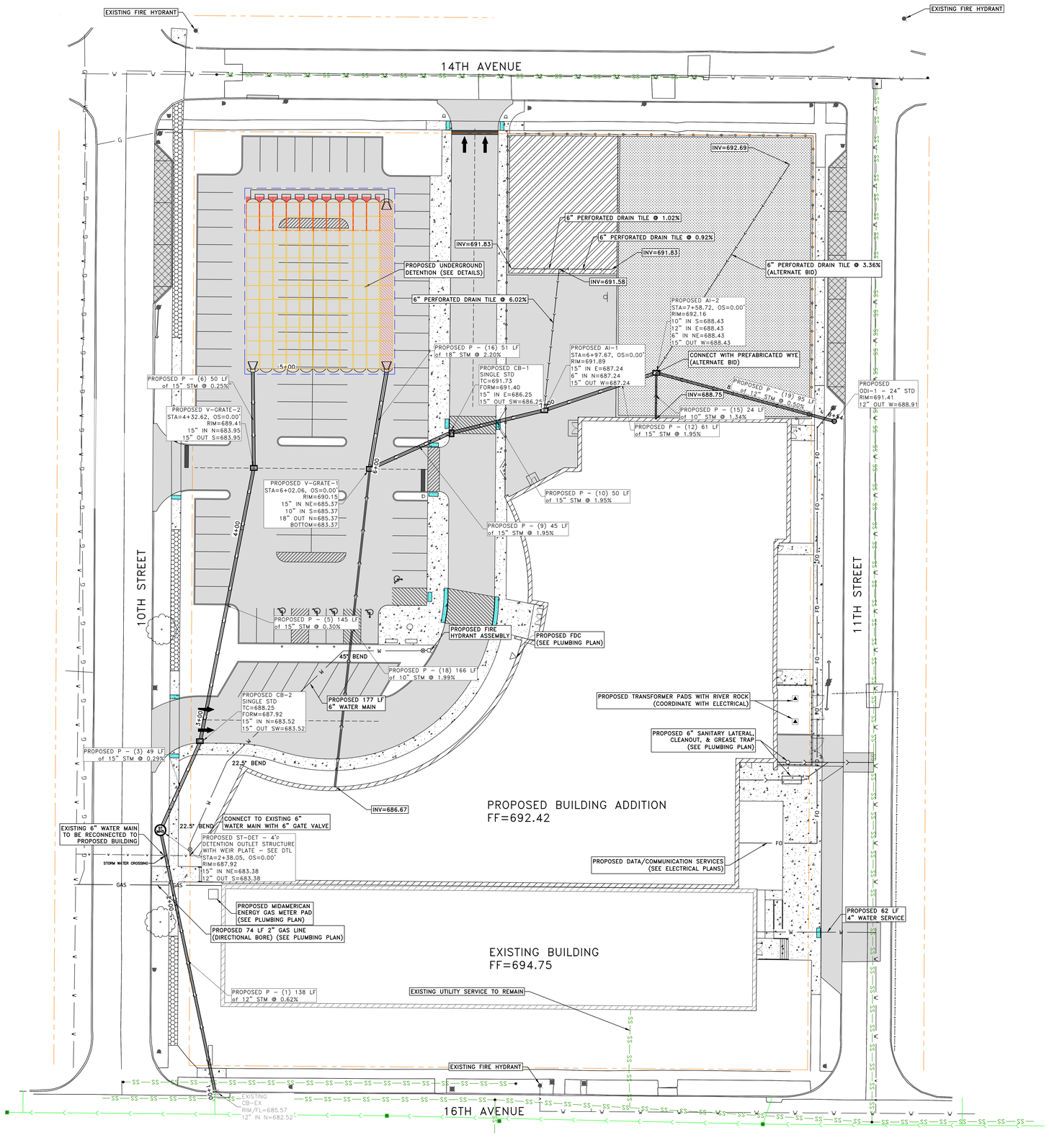
PROJECT NUMBER 224150.00
DATE OF ISSUE 10/22/25
DRAWN BY MAR
REVIEWED BY MWJ

PROPOSED SITE PLAN

C-201

BIDDING

X:\CAD\LIB PROJECTS\225 LIGHT LINCOLN IRVING SCHOOL ADDN\CAD PLAN SHEETS\225 PROPOSED SITE.DWG PLOTTED: 10/22/2025



UTILITY NOTES:

1. IF SYNTHETIC TURF ALTERNATE BID IS CHOSEN, REPLACE AI-2 WITH A 15"X12" REDUCER, 6"X15" TEE, 10"X15" TEE, AND A CLEANOUT.
2. ALL STORM SEWER TO BE PERFORATED PIPE WITH EXCEPTION OF P-1
3. STORM WATER CROSSING TO BE FIELD VERIFIED. IF WATER IS IN CONFLICT WITH STORM, LOWER WATER TO 18" BELOW STORM BOTTOM. IF WATER IS BELOW STORM BUT WITHIN 18" OF STORM, INSTALL WATER QUALITY STORM PIPE.

LEGAT ARCHITECTS
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DATE 10/22/25

REVISIONS

NO.	DESCRIPTION	DATE

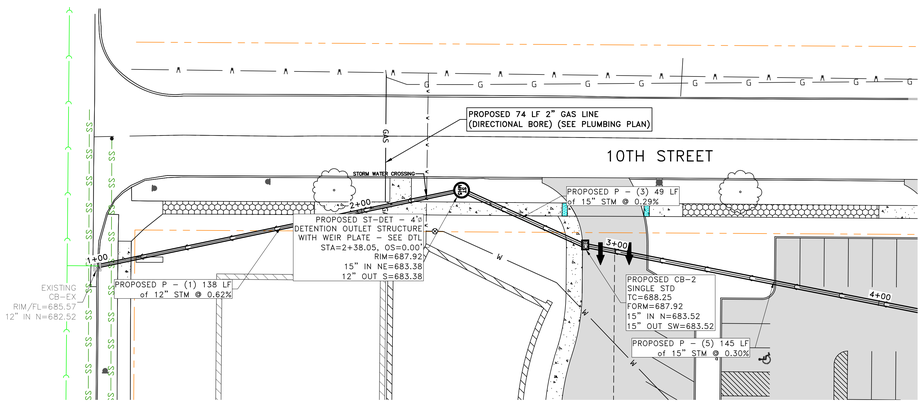
PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/25
DRAWN BY	MAR
REVIEWED BY	MWJ

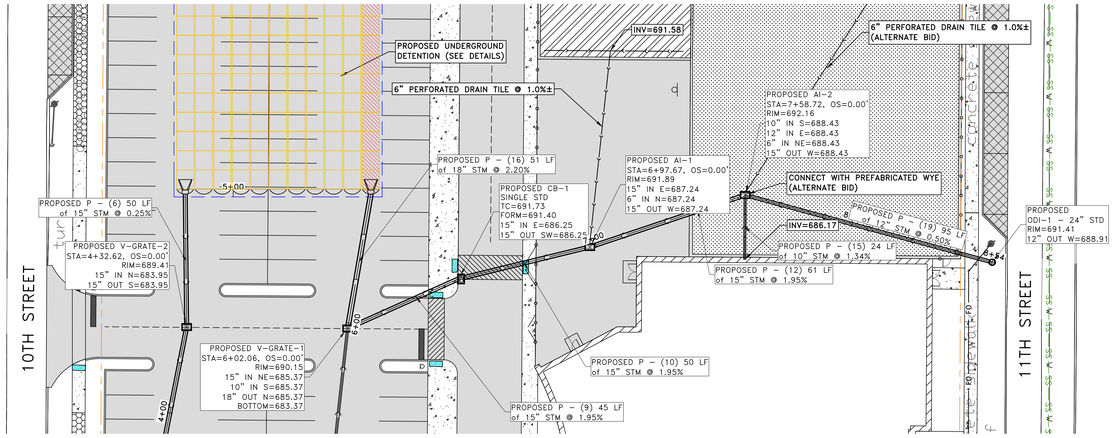
PROPOSED UTILITY PLAN

C-202

BIDDING

P:\DRUS PROJECTS\2022 LINCOLN IRVING SCHOOL ADDN\CAD FILES\ARCHITECTURAL\PROPOSED UTILITY PLAN.DWG PLOTTED: 10/22/2025





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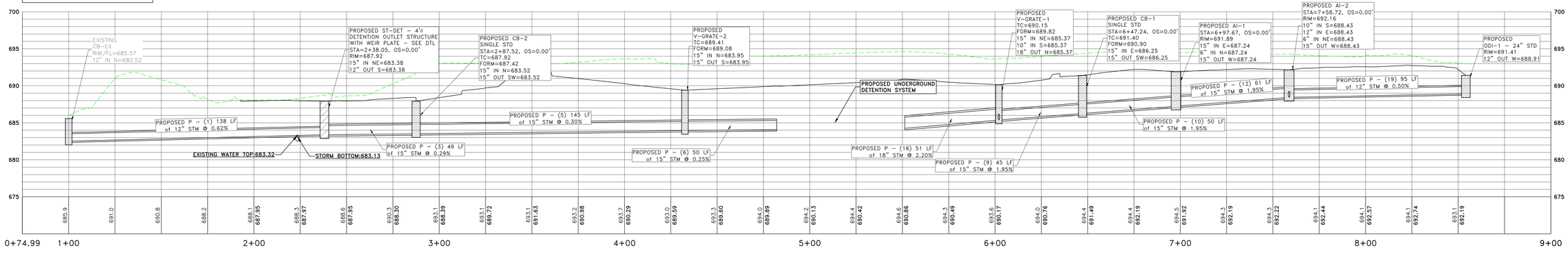
N

UTILITY NOTES:

1. IF SYNTHETIC TURF ALTERNATE BID IS CHOSEN, REPLACE AI-2 WITH A 15"X12" REDUCER, 6"X15" TEE, 10"X15" TEE, AND A CLEANOUT.
2. ALL STORM SEWER TO BE PERFORATED PIPE WITH EXCEPTION OF P-1
3. STORM WATER CROSSING TO BE FIELD VERIFIED. IF WATER IS IN CONFLICT WITH STORM, LOWER WATER TO 18" BELOW STORM BOTTOM. IF WATER IS BELOW STORM BUT WITHIN 18" OF STORM, INSTALL WATER TIGHT STORM PIPE.

PROFILE VIEW OF 9122 STORM
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'



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MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

SIGNATURE

DATE 10/22/25

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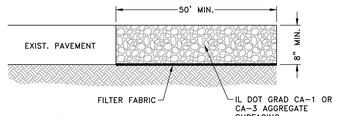
REVIEWED BY	MWJ

PROPOSED STORM PLAN & PROFILE

C-203

BIDDING

C:\CIVIL PROJECTS\2022 LEGAT\LINCOLN IRVING SCHOOL ADDITION\224150 SHEETS\224150 PROPOSED UTILITY PLAN.DWG

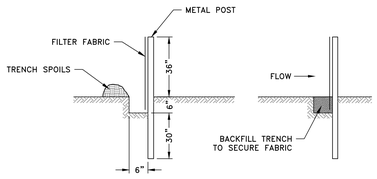


NOTES:

1. CONTRACTOR TO MAINTAIN MINIMUM DEPTH AND SHALL REMOVE SOIL FROM CONSTRUCTION ENTRANCE, AS REQUIRED.
2. CONSTRUCT 12'(MIN.) WIDE FOR ONE-WAY TRAFFIC AND 20' WIDE FOR TWO-WAY TRAFFIC.

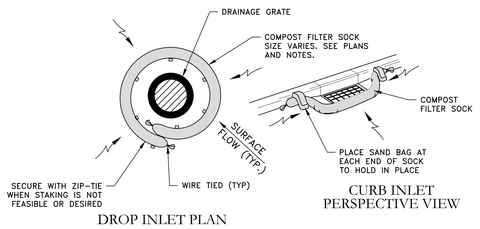
CONSTRUCTION ENTRANCE - SECTION VIEW

NOT TO SCALE



SILT FILTER FENCE AS A PERIMETER EROSION BARRIER

NOT TO SCALE

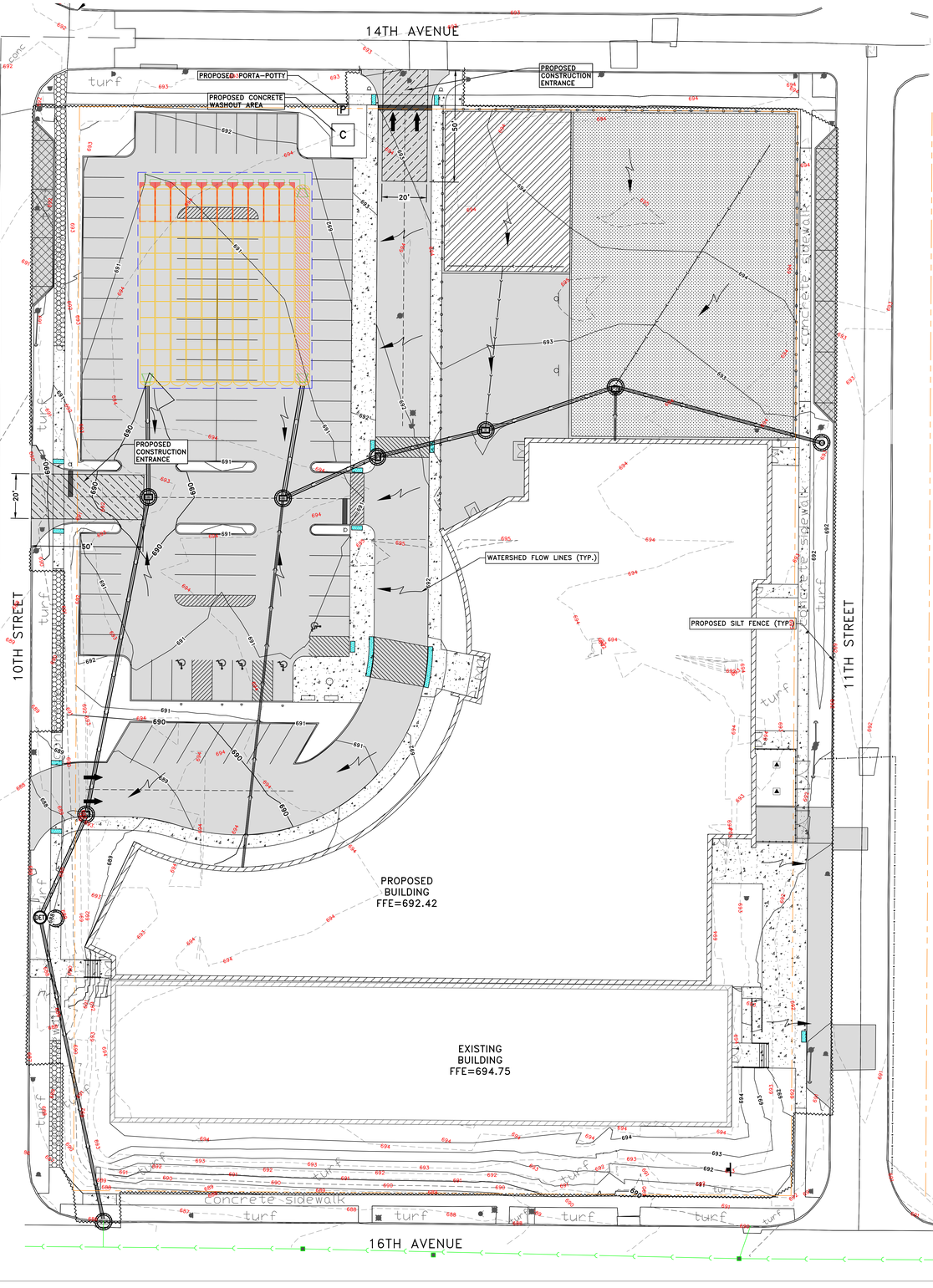


NOTES:

1. ANCHORING STAKES SHALL BE SIZED, SPACED AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE FILTER SOCK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
2. OVERLAP ENDS OF SOCK PER MANUFACTURER'S RECOMMENDATIONS. (1' MIN., 3' MAX.)
3. USE 8" TO 12" DIAMETER SOCK ON CURBSIDE IN TRAFFIC AREAS.
4. USE 12"-18" DIAMETER SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

COMPOST FILTER SOCK INLET PROTECTION

NOT TO SCALE



LEGEND

- PROPOSED BUILDING
- PROPOSED 6" PCC PAVEMENT
- ALTERNATE 6" PCC PAVEMENT
- PROPOSED 5" PCC SIDEWALK
- FUTURE 5" PCC SIDEWALK BY OTHERS
- PROPOSED PLAYGROUND
- PROPOSED GRASS FIELD
- PROPOSED INLET PROTECTION
- PROPOSED SILT FENCE
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED FENCE

NOTE: SEED, FERTILIZE, & MULCH ALL DISTURBED GRASS AREAS.

GRADING SUMMARY

	CUT (CY)	FILL (CY)
UNADJUSTED	7,259.34	103.85
FACTORED PAVEMENT	474.99	6.80
SUBTOTAL	7,734.33	97.05
30% SHRINKAGE		29.12
TOTAL	7,734.33	126.17
NET (CY) TO BE SPREAD ON SITE	**7,608.15**	

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LINCOLN - IRVING ADDITION AND RENOVATION

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REVIEWED BY	MWJ

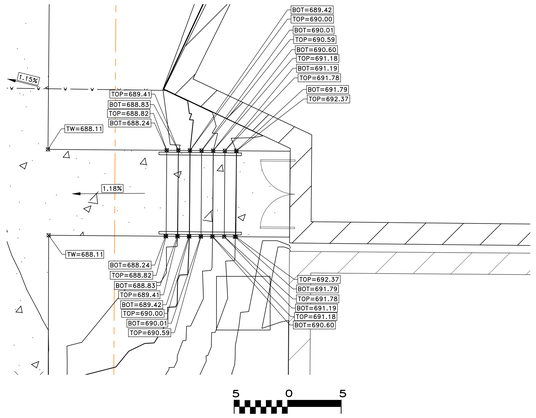
PROPOSED GRADING & EROSION CONTROL PLAN

C-301

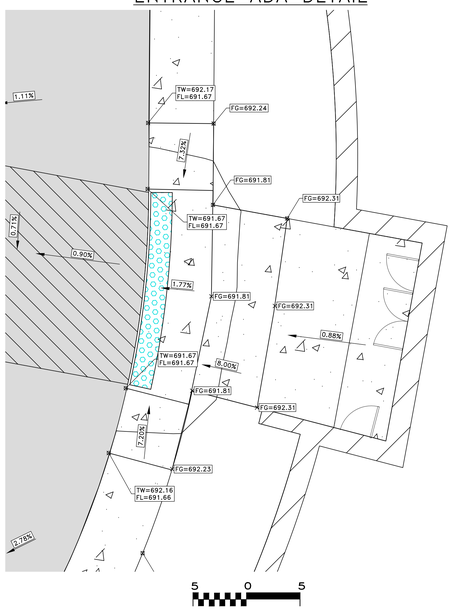
BIDDING

V:\CIVIL PROJECTS\22 LEGAT\MOLINE #4900 SCHOOL MOVING\CAD PLAN SHEETS\P301 PROPOSED GRADING AND EROSION.DWG PLOTTED: 10/22/2025

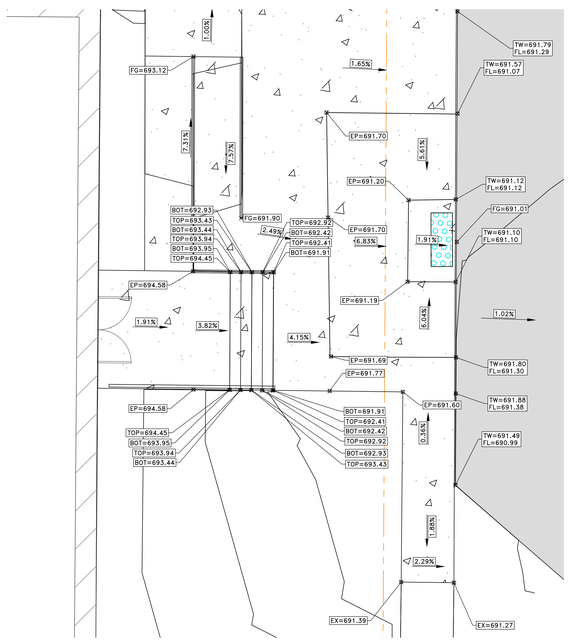
WEST STAIR DETAIL (7" RISE – 11" RUN)

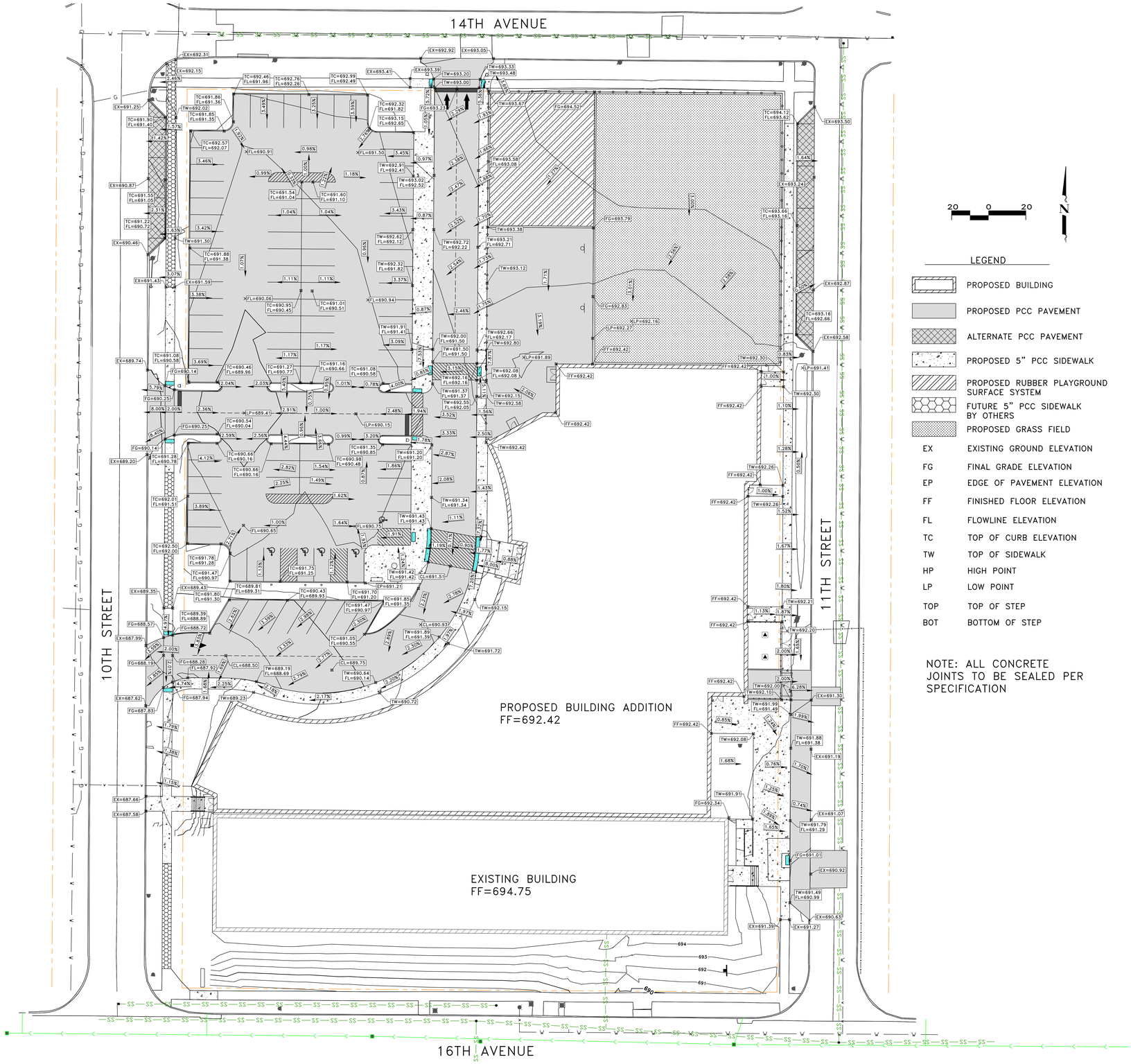


ENTRANCE ADA DETAIL



EAST STAIR DETAIL (6" RISE – 12" RUN)





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LEGEND

	PROPOSED BUILDING
	PROPOSED PCC PAVEMENT
	ALTERNATE PCC PAVEMENT
	PROPOSED 5" PCC SIDEWALK
	PROPOSED RUBBER PLAYGROUND SURFACE SYSTEM
	FUTURE 5" PCC SIDEWALK BY OTHERS
	PROPOSED GRASS FIELD
EX	EXISTING GROUND ELEVATION
FG	FINAL GRADE ELEVATION
EP	EDGE OF PAVEMENT ELEVATION
FF	FINISHED FLOOR ELEVATION
FL	FLOWLINE ELEVATION
TC	TOP OF CURB ELEVATION
TW	TOP OF SIDEWALK
HP	HIGH POINT
LP	LOW POINT
TOP	TOP OF STEP
BOT	BOTTOM OF STEP

NOTE: ALL CONCRETE JOINTS TO BE SEALED PER SPECIFICATION

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LINCOLN - IRVING ADDITION AND RENOVATION

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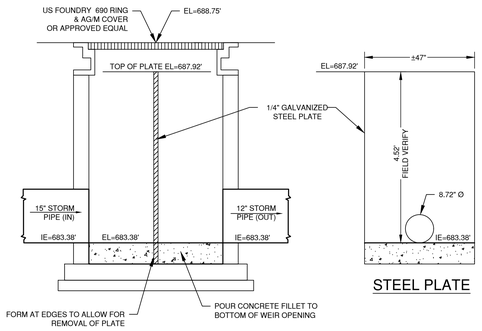
DRAWN BY	MAR
REVIEWED BY	MWJ

PROPOSED PAVING PLAN

C-401

BIDDING

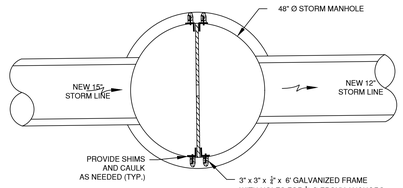
R:\CAD\2 PROJECTS\2025 LEGAT\MOLINE SCHOOL DISTRICT\MOLINE\01 PLAN SHEETS\PROPOSED PAVING PLAN.DWG



STEEL PLATE

OUTLET STRUCTURE

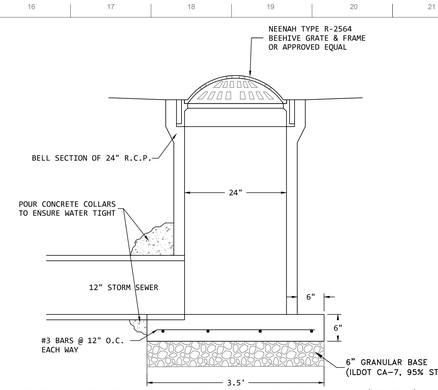
NOT TO SCALE



PLAN VIEW

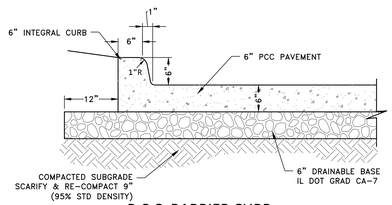
NOTES:

1. STRUCTURAL STEEL PLATES SHALL CONFORM TO ASTM A36.
2. ALL STEEL TO BE GALVANIZED AND SHALL CONFORM TO ASTM A446, GRADE A, G60 (ASTM A446, GRADE A Z180) ZINC COATED ACCORDING TO ASTM A525 (ASTM A525M).
3. THE ELEVATIONS SHOWN ON THIS DETAIL ARE CRUCIAL TO THE PROPER OPERATION OF THE ORIFICE PLATE. ENGINEER SHALL VERIFY ELEVATIONS PRIOR TO ACCEPTANCE.
4. SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION OF THE OUTLET STRUCTURE



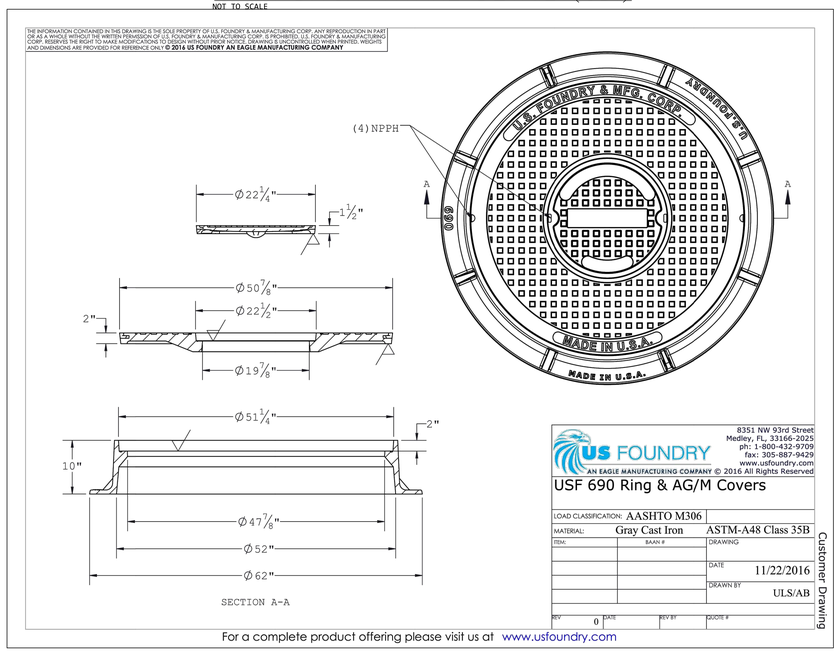
OPEN DITCH INTAKE DETAIL (ODI)

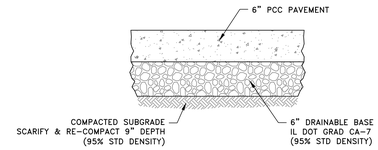
NOT TO SCALE



P.C.C. BARRIER CURB

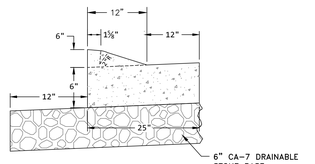
NOT TO SCALE





6" P.C.C. PAVEMENT SECTION

NOT TO SCALE

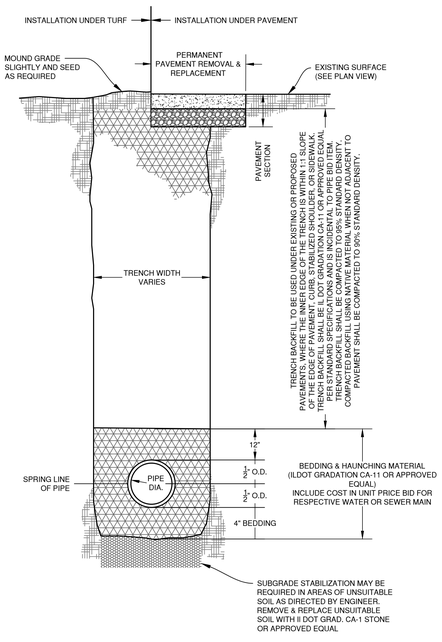


TYPICAL SECTION

STANDARD PITCH

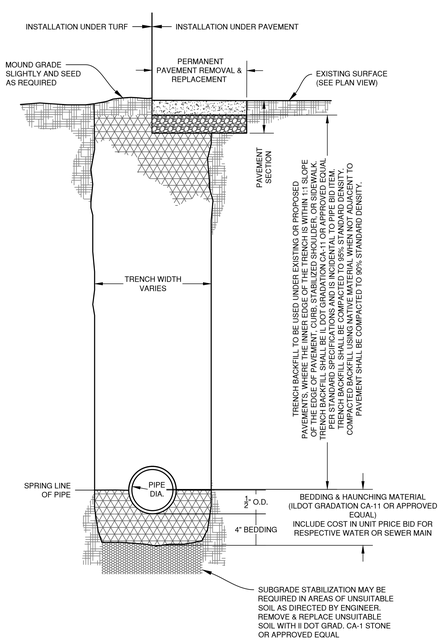
P.C.C. SLOPED CURB & GUTTER DETAIL

NOT TO SCALE

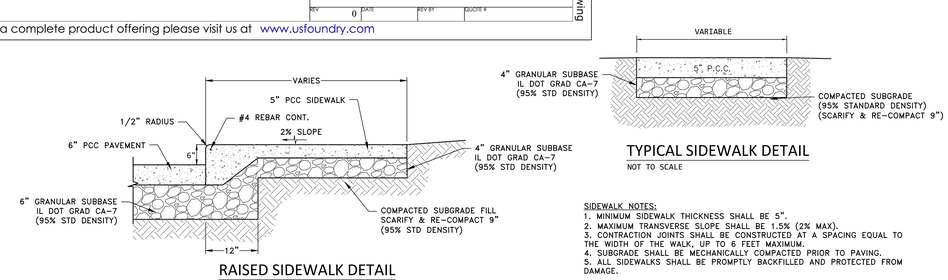


FLEXIBLE PIPE INSTALLATION DETAIL

(FOR STORM, SANITARY, & WATER IMPROVEMENTS)



RIGID PIPE INSTALLATION DETAIL



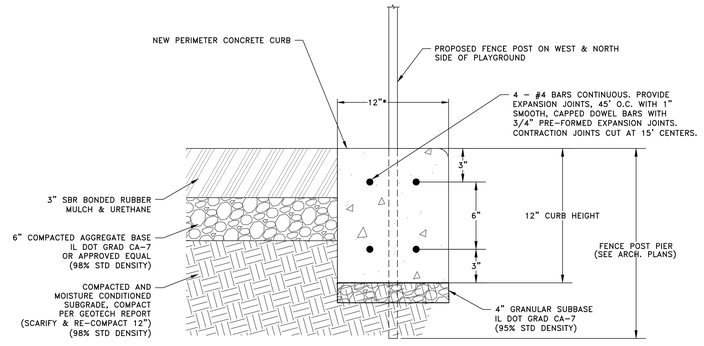
RAISED SIDEWALK DETAIL

NOT TO SCALE

TYPICAL SIDEWALK DETAIL

NOT TO SCALE

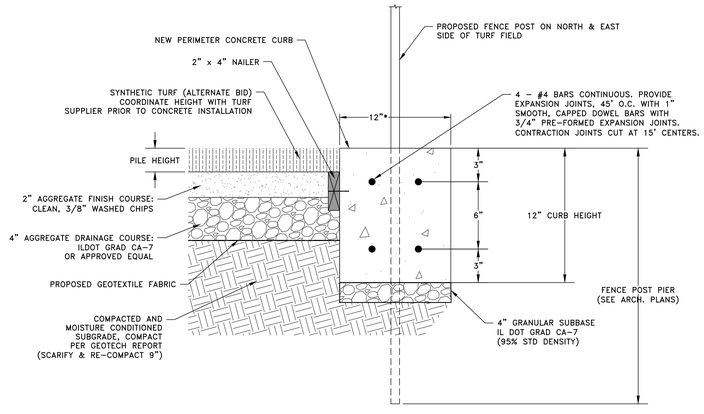
SIDEWALK NOTES:
1. MINIMUM SIDEWALK THICKNESS SHALL BE 5".
2. MAXIMUM TRANSVERSE SLOPE SHALL BE 1.5% (2% MAX).
3. CONTRACTION JOINTS SHALL BE CONSTRUCTED AT A SPACING EQUAL TO THE WIDTH OF THE WALK, UP TO 6 FEET MAXIMUM.
4. SUBGRADE SHALL BE MECHANICALLY COMPACTED PRIOR TO PAVING.
5. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.



PLAYGROUND CURB EDGE DETAIL (ALTERNATE BID)

NOT TO SCALE

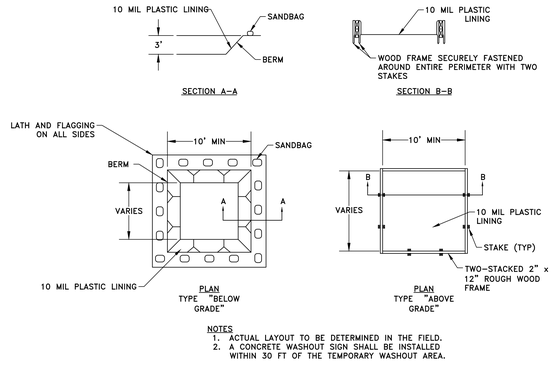
*12" WITH FENCE
8" WITHOUT FENCE



SYNTHETIC TURF CURB EDGE DETAIL (ALTERNATIVE BID)

NOT TO SCALE

*12" WITH FENCE
8" WITHOUT FENCE



NOTES
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY WASHOUT AREA.

CONCRETE WASHOUT DETAIL

NOT TO SCALE

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SIGNATURE

DATE 10/22/25

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/25
DRAWN BY	MAR
REVIEWED BY	MWJ

DETAILS

C-501

BIDDING

PLOTTED: 10/22/2025
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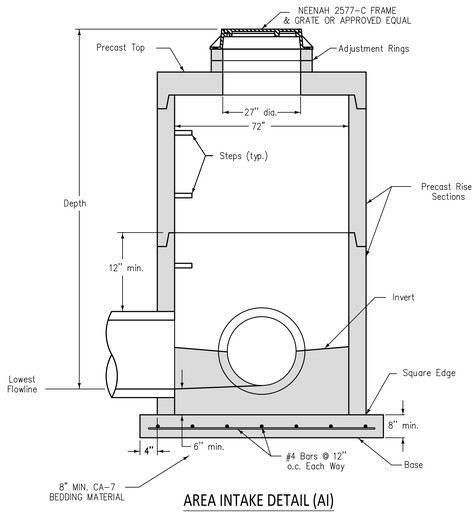


AREA INTAKE DETAIL (AI)

NOT TO SCALE

NO PART OF PIPE SHALL BE PLACED WITHIN 9 INCHES OF ℄ OF BEAMS.

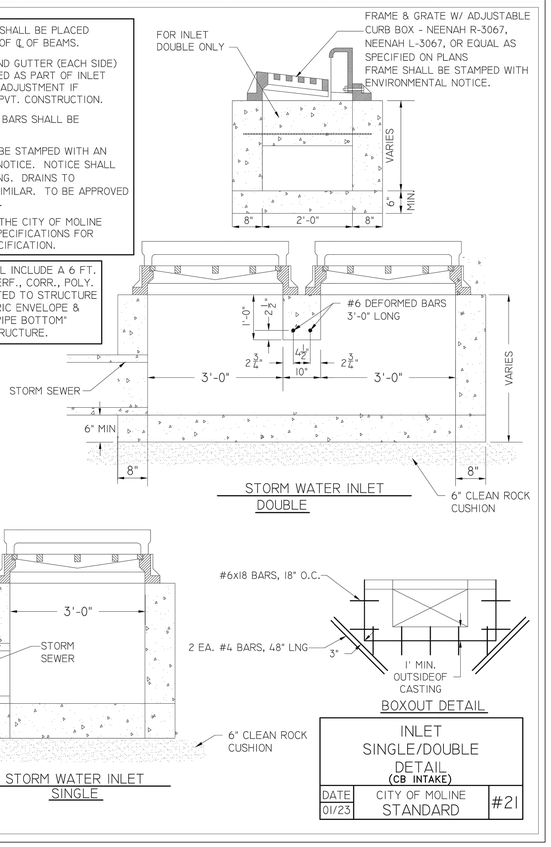
2 L.F. OF CURB AND GUTTER (EACH SIDE) SHALL BE INCLUDED AS PART OF INLET CONSTRUCTION & ADJUSTMENT IF NOT WITHIN NEW PVT. CONSTRUCTION.

ALL REINFORCING BARS SHALL BE EPOXY COATED.

CURB BOX SHALL BE STAMPED WITH AN ENVIRONMENTAL NOTICE. NOTICE SHALL STATE "NO DUMPING. DRAINS TO WATERWAY." OR SIMILAR. TO BE APPROVED BY THE ENGINEER.

SEE SEC. 602 OF THE CITY OF MOLINE SUPPLEMENTAL SPECIFICATIONS FOR ADJUSTMENT SPECIFICATION.

STRUCTURE SHALL INCLUDE A 6 FT. LENGTH OF 4", PERF., CORR., POLY. TUBING, CONNECTED TO STRUCTURE ENCASED IN FABRIC ENVELOPE & PLACED "ALONG PIPE BOTTOM" UPSTREAM OF STRUCTURE.

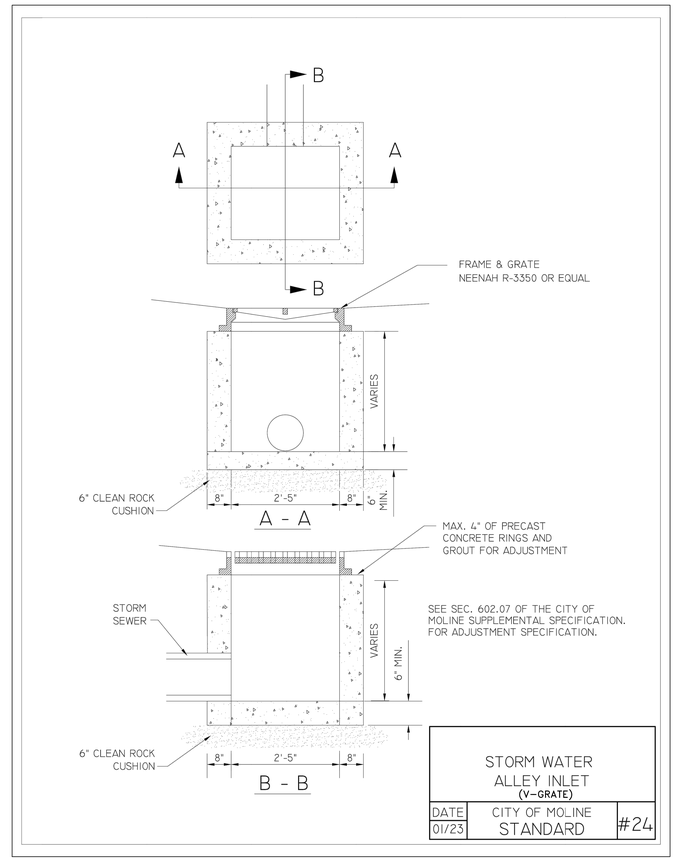


STORM WATER INLET
DOUBLE

BOXOUT DETAIL

STORM WATER INLET
SINGLE

INLET SINGLE/DOUBLE DETAIL (CB INTAKE)		
DATE 01/23	CITY OF MOLINE STANDARD	#21



STORM WATER ALLEY INLET (V-GRATE)		
DATE 01/23	CITY OF MOLINE STANDARD	#24

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REVIEWED BY	MWJ

STORM DETAILS

C-502

BIDDING

V:\CAD_PROJECTS\22 1501 LINCOLN IRVING SCHOOL ADDN\CAD FILES\SHEETS\22 1501 DETAILS.DWG PLOTTED: 10/22/2025

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

Advanced Drainage Systems, Inc.

SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR APP

LINCOLN IRVING

MOLINE, IL, USA

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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REVIEWED BY	MWJ

ADS DETAILS COVER

C-503

BIDDING

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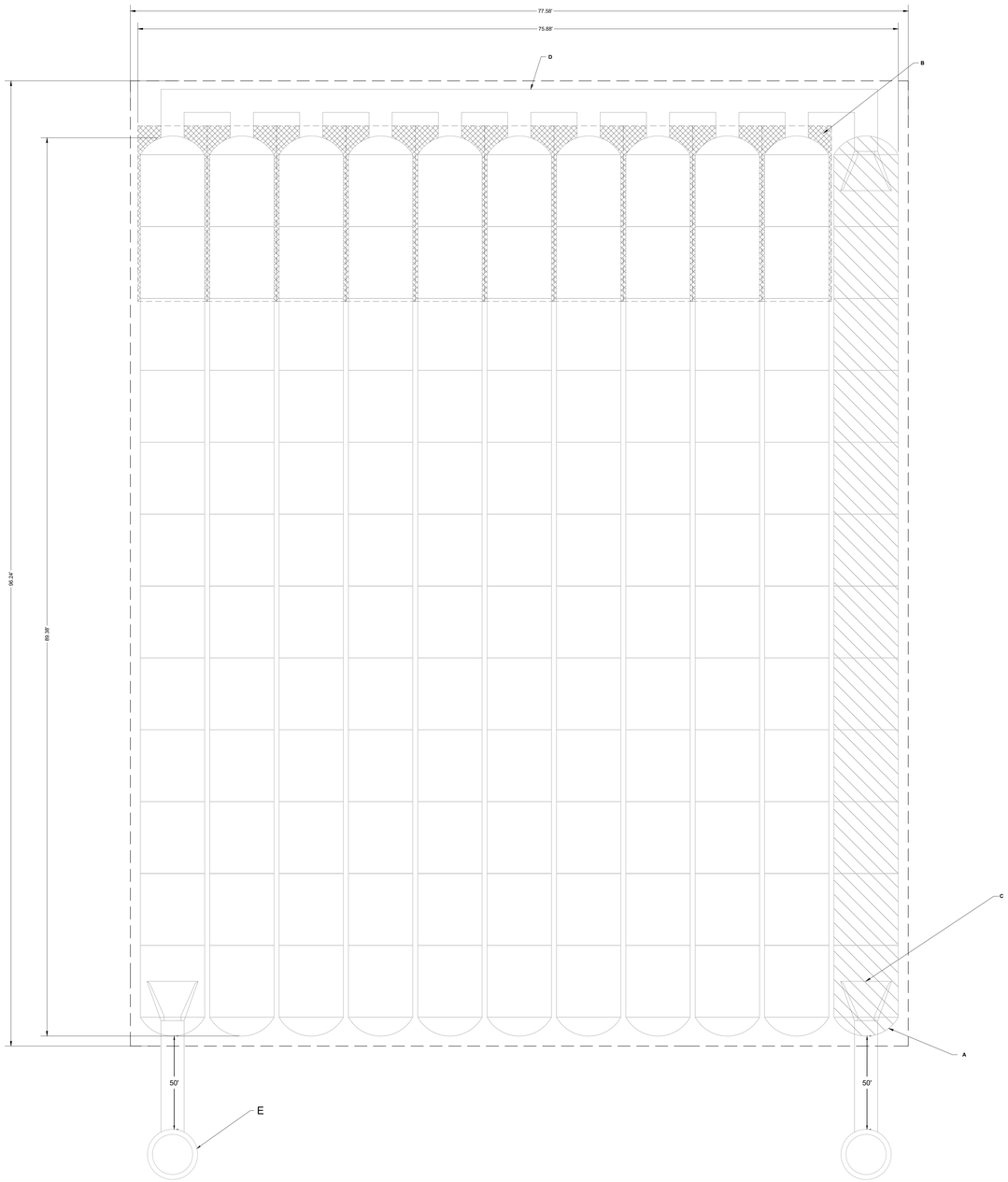
PROPOSED LAYOUT	
132	STORMTECH MC-3500 CHAMBERS
22	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (IN)
9	STONE BELOW (IN)
40	STONE VOID
25,450	INSTALLED SYSTEM VOLUME (CF) BELOW ELEVATION 687.92 (PERIMETER STONE INCLUDED) (BASE STONE INCLUDED)
7520	SYSTEM AREA (SF)
348.7	SYSTEM PERIMETER (FT)
18,146	REQUIRED SYSTEM VOLUME (CF)
1.0	FREEBOARD PROVIDED (FT)
12	OUTLET PIPE @ 0.63% (IN), INV= 683.38
8.72	ORIFICE (IN)
687.34	HIGH WATER LEVEL (FT)
687.92	EMERGENCY OVERFLOW (FT)
688.42	TOP OF CURB (FT)

CONCEPTUAL ELEVATIONS:	
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	695.83
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	689.83
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	689.33
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	689.33
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	689.33
TOP OF STONE:	688.83
TOP OF MC-3500 CHAMBER:	687.83
24" ISOLATOR ROW PLUS INVERT:	685.29
24" ISOLATOR ROW PLUS INVERT:	684.25
18" x 18" BOTTOM MANIFOLD INVERT:	684.25
18" BOTTOM CONNECTION INVERT:	684.25
BOTTOM OF MC-3500 CHAMBER:	684.08
UNDERDRAIN INVERT:	684.08
BOTTOM OF STONE:	683.33

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	18" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 18" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.06"	
PREFABRICATED END CAP	B	18" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP18BC / TYP OF ALL 18" BOTTOM CONNECTIONS	14.48"	
FLAMP	C	INSTALL FLAMP ON 18" ACCESS PIPE / PART#: MCFLAMP (TYP 2 PLACES)		
MANIFOLD	D	18" x 18" BOTTOM MANIFOLD, ADS N-12	14.48"	
CONCRETE STRUCTURE	E	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		4.0 CFS OUT



ISOLATOR ROW PLUS
(SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES

1. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
2. **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

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MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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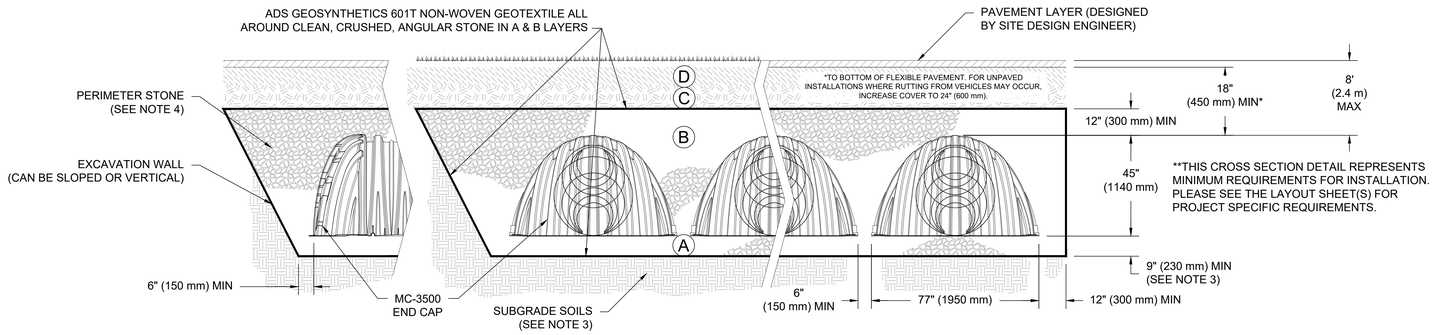
BIDDING

F:\CIVIL\5 PROJECTS\2122 LEAT LINCOLN IRVING SCHOOL ADD\CLOT DESIGN DRAWINGS\2122 ADD.DWG PLOTTED: 10/22/2025

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING STIFFENING AND HANDLING, CHAMBERS SHALL HAVE INTERNAL, INTERMEDIATE STRUTS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3□.
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, α) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/% THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND β) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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SIGNATURE

DATE 10/22/25

REVISIONS

NO.	DESCRIPTION	DATE

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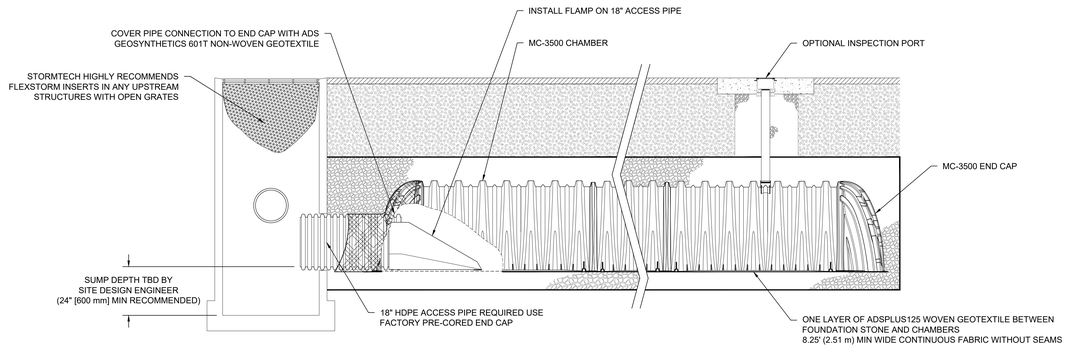
DRAWN BY MAR
REVIEWED BY MWJ

CHAMBER SYSTEM DETAIL

C-505

BIDDING

PLOTTED: 10/22/2025
F:\CIVIL\C PROJECTS\2022 LEGAT\ LINCOLN IRVING SCHOOL ADA\PLOT STYLES\ ADS.CTB



MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

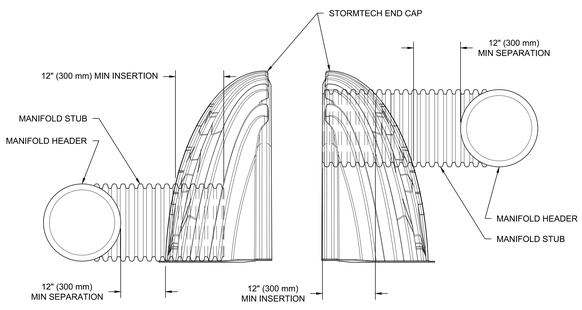
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

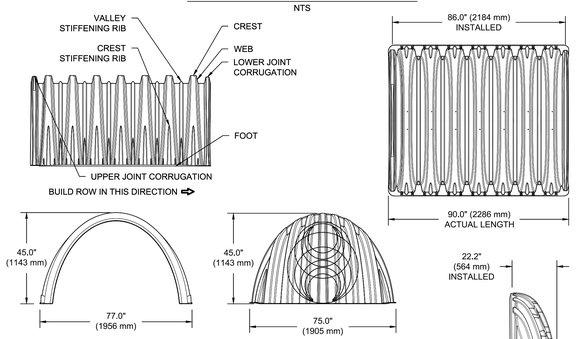
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-3500 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

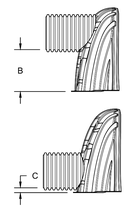
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

LEGAT ARCHITECTS
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C-506

BIDDING

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F:\CIVIL\PROJECTS\212 LEGAT\LINCOLN IRVING SCHOOL ADDN\CUST DESIGN DRAWINGS\212 ADS.DWG

DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH IBC 2021 AND SUBSEQUENT REFERENCE STANDARDS.
2. RISK CATEGORY (MAIN BUILDING): III
   RISK CATEGORY (STORM SHELTER): IV
3. SUPERIMPOSED LIVE LOADS: LIVE LOAD REDUCTION USED AS ALLOWED PER CODE

ROOF	TYPICAL	20 PSF
STORM SHELTER ROOF	TYPICAL	100 PSF
FLOOR	TYPICAL CLASSROOM	40 PSF
	MEP PENTHOUSE	150 PSF
	OUTDOOR CLASSROOM	100 PSF
	CORRIDORS, STAIRS & PUBLIC AREAS	100 PSF
	PARTITION LOAD	15 PSF
OTHER	HANDRAILS	MAX OF 50 PLF HORIZ PLUS 50 PLF VERT OR 200 LBS IN ANY DIRECTION, APPLIED AT TOP OF RAILING

4. MECHANICAL UNITS: THE CONTRACTOR SHALL CONFIRM THE ACTUAL MECHANICAL UNITS PURCHASED ARE OF WEIGHT AND SIZE SUCH THAT:
   a. THE UNIT WEIGHT IS LESS THAN OR EQUAL TO WEIGHT LISTED ON PLAN.
   b. THE UNIT LENGTH IS LESS THAN 5 FEET, IF UNIT LENGTH IS GREATER THAN 15 FEET, SNOW DRIFT ON ROOF SHALL BE ACCOUNTED FOR.
   CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION ON THE LOCATION OF ANY MECHANICAL UNITS WHERE THE IMPOSED LOAD UNDER THE UNIT EXCEEDS THE INDICATED DESIGN SIZE AND LOAD FOR THE ROOF AND/OR LIVE LOAD FOR THE FLOOR AS INDICATED ON THE PLAN.
5. SNOW:

	MAIN BUILDING	STORM SHELTER
GROUND SNOW	20 PSF	20 PSF
SNOW EXPOSURE FACTOR	0.9	0.9
THERMAL FACTOR	1.0	1.0
IMPORTANCE FACTOR	1.1	1.2
FLAT-ROOF SNOW	22 PSF	24 PSF
RAIN-ON-SNOW SURCHARGE	5 PSF	5 PSF
DESIGN SNOW	27 PSF	29 PSF
SEE S-003 FOR SNOW DRIFT LOADS.		

6. SEISMIC:

	MAIN BUILDING	STORM SHELTER
SEISMIC DESIGN CATEGORY	B	C
IMPORTANCE FACTOR	1.25	1.50
SITE CLASS	D	D
SS	0.096 g	0.096 g
S1	0.065 g	0.065 g
SDS	0.102 g	0.102 g
SD1	0.104 g	0.104 g
SEISMIC FORCE RESISTING SYSTEM	STEEL SYSTEM NOT SPECIALLY DETAILED FOR SEISMIC RESISTANCE AND ORDINARY REINFORCED MASONRY SHEAR WALLS	ORDINARY REINFORCED PRECAST SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT, R	3.0	3.0
Cd	3.0	3.0
Ω	3.0	2.5
ρ	1.0	1.0
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	EQUIVALENT LATERAL FORCE
SEISMIC RESPONSE COEFFICIENT, CS	0.043	0.051
DESIGN BASE SHEAR (STRENGTH LEVEL)	72.0 KIPS	79.0 KIPS

7. WIND (MAIN BUILDING):

BASIC WIND SPEED	VULT = 115 MPH		
EXPOSURE CLASS	B		
INTERNAL PRESSURE COEFFICIENT, GCpi	±0.18		
MAIN WIND FORCE PRESSURE (STRENGTH LEVEL)	22 PSF		
COMPONENTS & CLADDING:			
ROOF COMPONENTS	ZONE 1	ZONE 2	ZONE 3
SUPPORT BEAMS (A>100 SF)	29.6 PSF	39.3 PSF	46.7 PSF
ROOF SHEATHING (A> 50 SF)	32.1 PSF	42.5 PSF	53.2 PSF
DECK FASTENERS (A=10 SF)	37.9 PSF	50.0 PSF	68.1 PSF
WALL COMPONENTS	ZONE 4	ZONE 5	
A=200 SF	19.4 PSF	20.7 PSF	
A=50 SF	21.3 PSF	24.5 PSF	
A=20 SF	23.6 PSF	29.0 PSF	

   C & C NOTES:
   a. THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
   b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
   c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.
   d. SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT'S JURISDICTION FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.
8. ICC 500 SHELTER WIND DESIGN LOADS:

CODE PROCEDURE	ASCE 7 DIRECTIONAL
WIND SPEED, VT	250 MPH (3 SEC GUST)
INTERNAL PRESSURE COEFFICIENT, GCpiT	0.55
DIRECTIONALITY FACTOR, KdT	1.0
IMPORTANCE FACTOR	1.0
TOPOGRAPHIC EFFECTS, Kzt	1.0
IMPACT LOAD (WALL)	15 LB MISSILE (NOMINAL 2x4) TRAVELING HORIZONTALLY AT 100 MPH AND IMPACTING THE SURFACE AT 90°
IMPACT LOAD (ROOF)	15 LB MISSILE (NOMINAL 2x4) TRAVELING HORIZONTALLY AT 100 MPH OR VERTICALLY AT 67 MPH AND IMPACTING THE SURFACE AT 90°

9. RAIN:

RAIN INTENSITY, i	4.3 IN/HR

10. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY PRECAST SHEAR WALLS, MASONRY SHEAR WALLS, AND STEEL MOMENT FRAMES IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE ROOF DECK AND COMPOSITE DECK SERVE AS HORIZONTAL DIAPHRAGMS DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. TEMPORARY BRACING, SHORING, GUYING, ETC. SHALL AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK THAT DEVIATES FROM OR IS PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE DESIGN PROFESSIONALS.
3. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR DETERMINING SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: FALSEWORK, FORMWORK, STAGING, BRACING, AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVERGED BY THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
5. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SIGNED AND SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS. ALL PRODUCT SUBSTITUTIONS SHALL INCLUDE A CODE EVALUATION REPORT SPECIFIC TO THE BUILDING CODE LISTED IN THE DESIGN CRITERIA.
6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DESIGN.
7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
10. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF / FLOOR OPENINGS, TOP OF WALL ELEVATIONS, STAIRS, SLABS, CURBS, AND OTHER ATTACHED ITEMS NOT SHOWN ON STRUCTURAL ELEMENTS. ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS. FOR THESE NON-STRUCTURAL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS, THEY ARE FOR GENERAL INFORMATION ONLY
11. COORDINATE FLOOR FINISH INCLUDING, BUT NOT LIMITED TO THE "FLATNESS" AND "LEVELNESS" REQUIREMENTS WITH THE STRUCTURAL FLOOR FINISH CONTRACTOR PROVIDE UNDERLAYMENT / TOPPING WHERE REQUIRED TO PROVIDE A SURFACE ACCEPTABLE FOR INSTALLATION OF FLOOR FINISHES. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE COORDINATED PRIOR TO CASTING.
13. THE EXACT WEIGHTS, DIMENSIONS, AND LOCATIONS OF ALL MECHANICAL UNITS AND ELECTRICAL GEAR SUPPORTED ON STRUCTURAL FRAMING SHALL BE DETERMINED AND COORDINATED BY THE CONTRACTOR PRIOR TO BUILDING THE STRUCTURAL FRAMING SUPPORTING THOSE UNITS. IF THE UNIT WEIGHTS ARE GREATER THAN THE WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO DETAILING THE STRUCTURE. UNIT WEIGHTS, DIMENSIONS, AND LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE ONLY AND SHALL NOT BE USED FOR DETAILING THE STRUCTURE.
14. PROVIDE TEMPORARY BLOCKOUTS AND TEMPORARY OPENINGS IN THE STRUCTURE AS REQUIRED TO PERMIT INSTALLATION OF ALL WORK. BLOCKOUTS AND TEMPORARY OPENINGS SHALL BE LOCATED, CONFIGURED, DETAILED, AND INFILLED IN A MANNER THAT ALTERS NEITHER THE STRENGTH OF THE STRUCTURAL FRAMING NOR THE STRENGTH OF CONNECTIONS. INFILL ALL BLOCKOUTS AND TEMPORARY OPENINGS USING THE MATERIALS SPECIFIED FOR THE FRAMING AT THE LOCATIONS WHERE THE BLOCKOUTS AND OPENINGS OCCUR. SUBMIT DRAWINGS INDICATING THE LOCATIONS, DIMENSIONS, AND DETAILS OF ALL PROPOSED BLOCKOUTS AND OPENINGS AND DETAILS INDICATING THE MANNER IN WHICH THE BLOCKOUTS AND OPENINGS WILL BE INFILLED.
15. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
16. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, CONTRACTOR SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH FIELD CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.
17. ELEMENTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS. THE STRUCTURAL FRAMING WAS DESIGNED TO LIMIT DRIFT AND DEFLECTION OF THE STRUCTURAL SYSTEM TO LESS THAN THE MAXIMUM PERMITTED DEFLECTIONS LISTED IN THE BUILDING CODE. THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES TO ACCOMMODATE THESE DEFLECTIONS AND TO ACCOMMODATE CONSTRUCTION TOLERANCES.
18. TOPS OF ALL MASONRY WALLS SHALL BE CONNECTED TO THE UNDERSIDE OF THE STRUCTURAL FRAMING PER DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SUCH WALLS.

SUBMITTALS

1. SUBMITTALS ARE:
   a. CONCRETE MIX DESIGNS
   b. MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
   c. CONCRETE AND MASONRY REINFORCING
   d. STEEL FABRICATION AND MISCELLANEOUS METALS
   e. JOISTS
   f. STEEL DECK
2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE DESIGN PROFESSIONALS.
3. SUBMITTALS SHALL BE REVIEWED BY THE DESIGN PROFESSIONALS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE DESIGN PROFESSIONALS ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

DELEGATED DESIGN

1. DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
2. DELEGATED DESIGNS ARE:
   a. EXCAVATION, SHORING, AND UNDERPINNING
   b. PRECAST CONCRETE ELEMENTS AND CONNECTIONS
   c. CURTAIN WALL AND STOREFRONT SYSTEMS
   d. COLD FORMED STEEL FRAMING AND CONNECTIONS
   e. ROOFTOP EQUIPMENT ANCHORAGE AND CURBS
   f. STAIRS, ACCESS LADDERS, HANDRAILS, GUARDRAILS, AND GRATING
   g. HELICAL PILES
3. ALL DELEGATED DESIGNS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.
4. STAIRS:
   a. STEEL STAIRS IN STEEL FRAMED STRUCTURES SHALL BE CONFIGURED SO THE STAIR STRINGERS CONNECT TO THE WEBS OF SUPPORTING STRUCTURAL STEEL FLOOR FRAMING MEMBERS. STAIR STRINGERS MAY NOT CONNECT TO SLABS ON DECK. STAIR STRINGER AND HANGER CONNECTIONS SHALL BE CONFIGURED SO THEY CONNECT TO THE SUPPORTING STRUCTURAL STEEL IN A MANNER THAT IMPOSES NO TORSION UPON THE SUPPORTING STRUCTURAL MEMBER. WHERE STAIR HANGERS MUST FRAME ECCENTRIC TO THE SUPPORTING STEEL, SUPPLEMENTAL FRAMING SHALL BE PROVIDED AS INDICATED ON THE CONTRACT DOCUMENTS TO PREVENT TORSION ON THE SUPPORTING STEEL FRAMING.
   b. DESIGN FRAMING MEMBERS IN COMMUNICATING STAIRS AND MONUMENTAL STAIRS TO LIMIT LIVE LOAD DEFLECTION TO THE SMALLER OF L/600 OR 1/4". SIZE STAIR FRAMING MEMBERS TO PROVIDE A STAIR ASSEMBLY WITH A NATURAL FREQUENCY > 5 HERTZ AND PEAK ACCELERATION, ap/g = 0.015, AS COMPUTED PER AISC DESIGN GUIDE 11 EQUATION 2.3 USING RIDDOR FOOTBRIDGE CRITERIA.
   c. SEE ARCHITECTURAL DRAWINGS FOR STEEL STAIR DETAILS. DESIGN OF FRAMING MEMBERS AND CONNECTIONS TO BE BY SPECIALTY ENGINEER, WORKING DIRECTLY WITH THE STAIR DETAILER AND FABRICATOR. WHERE SUPPORT POSTS ARE REQUIRED, PROVIDE 3'-0" SQUARE x 1'-0" THICKENED SLAB WITH (4)#5 BOTTOM AT BASE OF STAIR.
5. FACADE:
   a. DESIGN AND DETAILING OF THE FACADE SYSTEM AND CONNECTIONS TO THE STRUCTURE SHALL TAKE INTO CONSIDERATION THE FOLLOWING MOVEMENTS:
      1. ±1/2" VERTICAL DIFFERENTIAL DEFLECTION OF SLAB EDGES ON ADJACENT FLOORS
      2. ±1/2" HORIZONTAL DIFFERENTIAL DEFLECTION BETWEEN ADJACENT FLOORS
      3. DIFFERENTIAL THERMAL EXPANSION / CONTRACTION BETWEEN FACADE SYSTEM AND SUPPORTING PRIMARY STRUCTURAL SYSTEM
      4. THE FACADE SHALL NOT BE INSTALLED UNTIL AFTER THE SUPERSTRUCTURE HAS BEEN PLUMBED, ALL FRAMING CONNECTIONS HAVE BEEN INSTALLED, AND ALL SHORES AND RESHORES HAVE BEEN REMOVED.
      5. WHERE STRUCTURAL STEEL HORIZONTAL GIRTS ARE PROVIDED, THOSE GIRTS MAY BE USED ONLY TO RESIST LATERAL LOADS FROM THE FACADE. VERTICAL LOADS MAY NOT BE IMPOSED BY THE GIRT FRAMING UNLESS THE SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS SPECIFICALLY INDICATE THAT FACADE GRAVITY LOAD CONNECTIONS MAY BE MADE TO THE GIRTS.

EXISTING CONDITIONS / DEMOLITION

1. EXISTING CONDITIONS:
   a. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED JUNE 15, 1966 BY LUNDEEN AND TOLINE ARCHITECTS.
   b. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST INFORMATION KNOWN TO THE CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS, AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT SO CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
2. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY TO PREVENT DAMAGE TO EXISTING ELEMENTS WHICH ARE TO REMAIN.
3. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE AND SITES THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
5. ALL CONSTRUCTION IS NEW UNLESS IDENTIFIED AS EXISTING, 'EX'. THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT. NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLABS UON. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.
6. REINFORCING STEEL IN EXISTING CONCRETE SHALL BE LOCATED PRIOR TO INSTALLATION OF NEW OPENINGS OR CORING OF HOLES IN THE CONCRETE. REINFORCING STEEL MAY NOT BE CUT WITHOUT APPROVAL FROM THE ENGINEER.
7. SHORING:
   a. SHORING DRAWINGS AND CALCULATIONS BY OTHERS, AS REQUIRED, ARE NOT INCLUDED IN THIS PACKAGE. SHORING DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE PROVIDED BY CONTRACTOR FOR REVIEW.
   b. SHORING / UNDERPINNING OF EXISTING BUILDINGS OR IMPROVEMENTS SHALL BE PROVIDED BEFORE EXISTING SUPPORTING WALLS, SLABS, FOUNDATIONS, PAVEMENT, ETC. ARE CUT, MODIFIED, OR REMOVED.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT NO. 07235203 DATED FEBRUARY 20, 2024 BY TERRACON. FOLLOW RECOMMENDATIONS IN REPORT FOR ALL FOUNDATION WORK. REPORT IS ON FILE WITH THE ARCHITECT.
2. SOIL PROPERTIES:

FROST DEPTH	-3'-6" FT

3. SUBGRADE PREPARATION FOR FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SHALL BE IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
4. ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
5. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED.
6. PROVIDE SHORING WHERE THERE IS INSUFFICIENT SPACE FOR STABLE-SLOPED EMBANKMENTS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEETING, SHORING, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION.
8. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
9. ANY REQUIRED IMPORT FILL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.
10. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL. BELOW GRADE UTILITY OR PIPE ELEVATIONS, WHERE SHOWN, ARE INDICATED FOR REFERENCE ONLY. REQUIRED ELEVATIONS SHALL BE DETERMINED BY OTHERS AND COORDINATED WITH THE FOUNDATIONS.
11. WHERE GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF WALLS, BACKFILL SHALL BE PLACED SO THAT IT IS NOT UNBALANCED BY MORE THAN 2 FEET ON EITHER SIDE.
12. ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

SHALLOW FOUNDATIONS

1. SEE THE GEOTECHNICAL REPORT FOR SHALLOW FOUNDATION REQUIREMENTS.
2. SHALLOW FOUNDATIONS SHALL HAVE THE FOLLOWING MINIMUM NET ALLOWABLE SERVICE LOAD BEARING PRESSURES:

NET ALLOWABLE BEARING PRESSURE	1500 PSF (CODE MINIMUM)

3. FOUNDATION ELEVATIONS SHOWN INDICATE LOCATIONS WHERE ADEQUATE SOIL BEARING PRESSURE IS ANTICIPATED. IF INADEQUATE BEARING CAPACITY IS ENCOUNTERED, CONTACT STRUCTURAL ENGINEER FOR RESOLUTION. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL REPORT. DUE TO VARIATION OF SOIL CONDITIONS BETWEEN BORINGS, FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
4. ALL FOUNDATIONS SHALL BEAR BELOW THE FROST DEPTH, OR LOWER WHERE INDICATED ON FOUNDATION PLAN. IN CASE OF CONFLICT, NOTIFY THE DESIGN PROFESSIONALS IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.
5. FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL, AND CLEAN AND FREE OF LOOSE DEBRIS AND STANDING WATER AT TIME OF CONCRETE PLACEMENT.
6. WHERE FOUNDATIONS BEAR ON ROCK, FOUNDATIONS SHALL BEAR ON THAT ROCK OR ON LEAN CONCRETE FILL.
7. NEW FOOTING BEARING ELEVATIONS SHALL MATCH ADJACENT EXISTING FOOTING BEARING ELEVATIONS WHERE OCCURRING UON.
8. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL UON IN THE GEOTECHNICAL REPORT. CONTACT STRUCTURAL ENGINEER WHERE ADEQUATE SLOPE IS NOT ACHIEVED.

STEEL HELICAL PILES

1. STEEL HELICAL PILES SHALL BE INSTALLED TO WITHIN THE FOLLOWING TOLERANCES:

TOP ELEVATION	±1/2"
PLUMB	WITHIN 1°
PILE CENTERLINE	WITHIN 3"

2. PILES SHALL BE DESIGNED TO PROVIDE THE REQUIRED LOAD CAPACITIES SHOWN ON PLANS WITH A 1" MAXIMUM VERTICAL SETTLEMENT AT ANY PILE AND A 1/2" MAXIMUM VERTICAL DIFFERENTIAL SETTLEMENT BETWEEN ANY TWO ADJACENT PILES UON.
3. PILE LOAD TESTS SHALL BE PERFORMED PER THE PROJECT SPECIFICATIONS AND ASTM D1143.
   a. COMPRESSION TESTS SHALL BE PERFORMED FOLLOWING THE "QUICK TEST" PROCEDURE DESCRIBED IN ASTM D1143.
   b. LOAD TESTS SHALL BE OBSERVED AND DOCUMENTED BY THE TESTING AND INSPECTION AGENCY.
   c. THE MAXIMUM TEST LOAD SHALL BE 200% OF THE ALLOWABLE LOAD SHOWN ON THE DRAWINGS UON.
   d. THE HELICAL TEST PILE LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR UON IN THE DRAWINGS.
   e. INSTALLATION METHODS, PROCEDURES, EQUIPMENT, PRODUCTS, AND FINAL INSTALLATION TORQUE SHALL BE IDENTICAL TO THE PRODUCTION HELICAL PILES TO THE GREATEST EXTENT PRACTICABLE, EXCEPT WHERE OTHERWISE APPROVED BY THE OWNER OR ARCHITECT.
   f. A LOAD TEST SHALL BE DEEMED ACCEPTABLE PROVIDED THE MAXIMUM TEST LOAD IS APPLIED WITHOUT HELICAL PILE FAILURE AND THE DEFLECTION OF THE PILE HEAD AT THE DESIGN LOAD IS LESS THAN 1" UON ON THE DRAWINGS. FAILURE IS DEFINED WHEN CONTINUOUS JACKING IS REQUIRED TO MAINTAIN THE LOAD.
4. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IF OBSTRUCTIONS ARE ENCOUNTERED WHILE INSTALLING PILES.
5. THE TESTING AND INSPECTION AGENCY AND INSTALLING CONTRACTOR SHALL KEEP A RECORD OR LOG OF EACH PILE AS INSTALLED SHOWING LOCATION, TOP AND BOTTOM ELEVATIONS, DIAMETERS, DATE INSTALLED, TYPE OF STRATA ENCOUNTERED, AND ANY OTHER PERTINENT INFORMATION.
6. PILE CONTRACTOR SHALL SUBMIT CALCULATIONS FOR DESIGN OF PILES. THOSE CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION.
7. PILE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW SHOWING DIMENSIONED PILE LAYOUT PLAN AND INSTALLATION SEQUENCE, HELICAL PILE COMPONENTS AND DETAILS, CORROSION PROTECTION SYSTEM, AND PILE TOP ATTACHMENT.

REINFORCING STEEL

1.

4. WIRE REINFORCING PER ASTM A82 FOR SINGLE-WYTHE CMU WALLS, CMU CAVITY WALLS, AND MULTI-WYTHE COMPOSITE CMU WALLS SHALL BE HOT-DIP GALVANIZED PER ASTM A153, CORROSION RESISTANT HORIZONTAL LADDER-TYPE JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING:

RUNNING BOND	9GA @ 16" OC (ALL WIDTHS)
BELOW GRADE WALLS	9GA @ 8" OC
OTHER THAN RUNNING BOND	9GA @ 16" OC (6"-8" WIDTHS) 9GA @ 8" OC (10"-16" WIDTHS)

5. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS.
6. PROVIDE MINIMUM 1" GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL UON. VERTICAL REINFORCING BARS SHALL BE SECURELY HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING.
7. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UON.
8. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWEL SIZE AND LOCATION IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL WITHIN 6" TOLERANCE. VERTICAL REINFORCEMENT TO RUN FULL HEIGHT OF WALL UON.
9. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.
10. GROUT SOLID ALL COURSES BELOW GRADE.
11. LIFTS OF GROUT SHALL BE KEYED 1 1/2" INTO THE PREVIOUS COURSE BELOW.
12. HORIZONTAL BAR REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
13. ALL BOND BEAMS TO HAVE A MINIMUM 8" DEPTH. PROVIDE TALLER BOND BEAMS AS NEEDED FOR COURSING OR TO AVOID INTERFERENCE BETWEEN REINFORCING STEEL AND POST-INSTALLED ANCHORS. CUT AND STEP BOND BEAM AS REQUIRED.
14. PROVIDE HORIZONTAL TIES WHERE CMU ABUTS CONCRETE.
15. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS UON. ADDITIONAL LINTELS MAY BE REQUIRED. COORDINATE WITH STRUCTURAL ENGINEER FOR REQUIRED LINTEL SIZE BEFORE CONSTRUCTION OF CMU WALL.
16. PIPE AND CONDUIT SHALL NOT BE PERMITTED IN CELLS WITH VERTICAL REINFORCEMENT. CONDUIT TO BE LOCATED TO AVOID ALL HORIZONTAL REINFORCEMENT. NO ALUMINUM CONDUITS PERMITTED.
17. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND UON.
18. SEE ARCHITECTURAL DRAWINGS FOR OTHER WALL ASSEMBLY COMPONENTS.
19. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF ALL NON-LOAD BEARING CMU WALLS.
20. MINIMUM WALL VERTICAL REINFORCING SHALL BE #5 BAR FULL HEIGHT IN CENTER OF GROUTED CELL AT WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS AT WALL OPENINGS, EACH SIDE OF CONTROL JOINTS, AND AT INTERVALS NOT TO EXCEED 48" UON.
21. MINIMUM HORIZONTAL REINFORCING SHALL BE (2)#5 BARS IN CENTER OF MINIMUM 16" DEEP CONTINUOUS GROUTED BOND BEAM AT ELEVATED FLOOR, INTERMEDIATE STAIR LANDINGS, AND ROOF LINES AND (1)#5 BAR IN CENTER OF 8" DEEP CONTINUOUS GROUTED BOND BEAM AT TOP OF PARAPET OR FREE-STANDING WALL AND INTERVALS NOT TO EXCEED 48" UON. PLACE BARS AT ELEVATED FLOOR AND ROOF LINES CONTINUOUS THROUGH CONTROL JOINTS.

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" OR LESS IN WIDTH THAT ARE AT LEAST 1 COURSE BELOW THE BOND BEAM AT THE TOP OF WALL.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS.
3. LINTELS IN NON-BEARING WALLS AND CLADDING SHALL BE SIZED PER THE FOLLOWING:

SPAN, L	4" CLADDING	8" CMU *
0' < L = 4'-0"	L4x4x1/4	(2) L3 1/2x3 1/2x1/4
4'-0" < L = 6'-0"	L6x4x5/16 (LLV)	(2) L4x3 1/2x3/8 (LLV)
6'-0" < L = 8'-0"	L7x4x3/8 (LLV)	(2) L5x3 1/2x3/8 (LLV)

CMU BLOCK OPTIONS				
SPAN, L	6"	8"	10"	12"
0' < L = 4'-0"	8" DEEP w/ (1)#4 BOTT	8" DEEP w/ (1)#4 BOTT	8" DEEP w/ (1)#5 BOTT	8" DEEP w/ (1)#5 BOTT
4'-0" < L = 6'-0"	8" DEEP w/ (1)#4 BOTT	8" DEEP w/ (1)#5 BOTT	8" DEEP w/ (1)#5 BOTT	16" DEEP w/ (1)#5 BOTT
6'-0" < L = 8'-0"	16" DEEP w/ (1)#4 BOTT	16" DEEP w/ (1)#4 BOTT	16" DEEP w/ (1)#5 BOTT	16" DEEP w/ (1)#5 BOTT
8'-0" < L = 10'-0"	16" DEEP w/ (1)#5 BOTT	16" DEEP w/ (2)#5 BOTT	16" DEEP w/ (2)#5 BOTT	16" DEEP w/ (2)#5 BOTT

*ALL ANGLES TO BE BACK-TO-BACK AND WELDED TOP AND BOTTOM 3" @ 12".

4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES UON.
5. TEMPORARY SHORING OF CMU LINTELS MUST BE PROVIDED UNTIL CMU HAS REACHED 75% OF DESIGN STRENGTH.
6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED UON.

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE AND WT SHAPES	ASTM A992	Fy=50 KSI
ANGLE SHAPES	ASTM A572	Fy=50 KSI
HSS SECTIONS, SQ/RECT	ASTM A500, GR C	Fy=50 KSI
PLATES	ASTM A572	Fy=50 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy=36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fu=120 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F1852	Fu=120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS FOR HIGH STRENGTH BOLTS	ASTM F436	
HEADED STUD ANCHORS (HSA)	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS UON. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM SNUG TIGHT CONDITION UON.
5. FULLY TENSIONED HIGH STRENGTH BOLTS AND SLIP CRITICAL HIGH STRENGTH BOLTS SHALL USE TENSION-CONTROL "TWIST-OFF" BOLTS OR BE INSTALLED USING THE TURN OF THE NUT METHOD.
6. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED UON. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
7. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC 360, TABLE J2.4.
8. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING INDICATED. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
9. HEADED STUD ANCHORS (HSA): SHALL BE INSTALLED IN ACCORDANCE WITH AWS D1.1 AND SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE HSA AND THE STEEL SHAPE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE HSA AND THE STEEL SHAPE. THE HSA SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8"Ø AND SMALLER AND 3/16" FOR LARGER THAN 5/8"Ø.
10. MINIMUM HORIZONTAL CONCRETE COVER FOR HSA TO BE 2".
11. BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE DRAWINGS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.
12. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.
13. PROVIDE ONE SHOP COAT OF PAINT ON ALL STRUCTURAL STEEL NOT COVERED WITH CONCRETE, FIREPROOFING, MASONRY, OR AT CONTACT SURFACES AT HIGH STRENGTH BOLTS.
14. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G60. ABRADED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
15. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
16. CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OR TORCHING OF HOLES, CUTS, AND OTHER FIELD MODIFICATIONS SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
17. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC. FOR MISCELLANEOUS STEEL NOT DETAILED SPECIFICALLY ON THE STRUCTURAL DRAWINGS.
18. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 10,000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
19. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR REVIEW AND APPROVAL BEFORE FABRICATION.

STEEL JOISTS

1. DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI, APPROVED FOR THE TYPE OF JOIST BEING USED.
2. ATTACH STEEL JOIST TO SUPPORT AS FOLLOWS:

	DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING (IN)	
JOIST TYPE/SERIES	FILLET WELD SIZE	WELD LENGTH (IN)	BOLT DIAMETER (IN)	BOLT MATERIAL	STEEL	MASONRY
K	1/8	2 1/2	1/2	A307	2 1/2	4
LH/DLH 02-06	3/16	2 1/2	3/4	A307	2 1/2	6
LH/DLH 07-17	1/4	2 1/2	3/4	A307	4	6
LH/DLH 18-25	1/4	4	3/4	A325	6	6

WHERE WELDS OR BOLTS ARE INDICATED, WELD/BOLT TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT UON.

3. DESIGN JOIST SEAT FOR 1500 LBS (1.0 WL) ROLLOVER LOAD FOR K-SERIES JOISTS ONLY.
4. ALL ROOF JOISTS SHALL BE DESIGNED FOR A 15 PSF NET WIND UPLIFT (LRFD).
5. SPECIAL JOIST AND JOIST GIRDER DEFLECTION REQUIREMENTS:
   a. ROOF JOISTS: LIVE LOAD = L/360 & TOTAL LOAD = L/240
6. PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR SPECIAL JOIST AND JOIST GIRDER DESIGNS. JOIST DESIGNER SHALL UTILIZE LOADINGS INDICATED ON THE STRUCTURAL DRAWINGS.
7. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED ABOVE. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATIONS, THE JOIST MANUFACTURER SHALL PROVIDE DIRECTION FOR REMOVAL AND REPLACEMENT OF ANY BRIDGING.
8. HANGING OF MISCELLANEOUS ITEMS IS NOT PERMITTED FROM BRIDGING / BRACING.
9. PROVIDE ANCHORS AT EACH END OF EACH ROW OF BRIDGING TOP AND BOTTOM CHORDS EXCEPT AT EXPANSION JOINTS.
10. ALL JOIST HEADERS AND ACCESSORIES SHALL BE DESIGNED AND FURNISHED BY THE JOIST FABRICATOR.
11. STEEL JOISTS SHALL BE TOP CHORD BEARING UON.
12. THE JOIST FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL BAR JOIST MATERIAL AND ACCESSORIES FOR REVIEW AND APPROVAL BEFORE FABRICATION.
13. PROVIDE SLOPED JOIST SEATS AS REQUIRED TO MEET ROOF SLOPE REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS.

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
   a. CURRENT VERSION OF VULCRAFT CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS
   b. SDI DIAPHRAGM DESIGN MANUAL 4 FOR DIAPHRAGM LOADS
3. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
4. FOR PENETRATIONS LESS THAN OR EQUAL TO 12"Ø OR 12"x12", FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR. SEE STRUCTURAL FRAMING DETAILS FOR ANY OPENING EXCEEDING LIMITS NOTED.
5. SUBMIT SHOP DRAWINGS SHOWING DECKING LAYOUT, DECK GAUGE, DECK DIRECTION, FASTENERS, AND FASTENING PATTERN FOR REVIEW AND APPROVAL.
6. FURNISH DECKING IN MINIMUM LENGTHS TO ACHIEVE 3-SPAN CONDITION UON.
7. ROOF DECK:
   a. ALL ROOF DECK SHALL BE GALVANIZED TO CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
   b. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDE ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER UON.
   c. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
8. COMPOSITE DECK:
   a. ALL FLOOR DECK SHALL BE GALVANIZED TO CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
   b. CONDUITS SHALL NOT BE PLACED IN SLAB ON DECK WITHOUT COORDINATION WITH THE STRUCTURAL ENGINEER UON.
   c. COORDINATE ALL PENETRATIONS, EMBEDS, AND RECESSES IN COMPOSITE DECK WITH THE STRUCTURAL ENGINEER UON.
   d. COMPOSITE DECK HAS BEEN DESIGNED FOR THE UNSHORED CLEAR SPAN. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS IS A MINIMUM THICKNESS. CONTRACTOR TO PROVIDE CONCRETE FILL REQUIRED TO COMPENSATE FOR BEAM AND DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED. DO NOT INSTALL MORE THAN 1" OF ADDITIONAL CONCRETE WITHOUT NOTIFYING STRUCTURAL ENGINEER.
   e. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT PROVIDED BY THE STEEL FABRICATOR.

COLD-FORMED STEEL (CFS) DELEGATED

1. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS SHALL CONFORM TO THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL METALS, AISI S100.
2. THE STRUCTURAL DRAWINGS DO NOT REFLECT THE ENTIRE SCOPE OF WORK REQUIRED FOR COLD-FORMED STEEL FRAMING AND CONNECTIONS. COLD-FORMED STEEL FRAMING SHALL BE PROVIDED FOR AND COORDINATED WITH ARCHITECTURAL, MEP, AND OTHER DRAWINGS.
3. COLD-FORMED STEEL FRAMING AND CONNECTIONS INDICATED OR REFERENCED IN THE CONTRACT DOCUMENTS ARE FOR PURPOSES OF CONVEYING DESIGN INTENT ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL SYSTEMS THAT SUPPORT GRAVITY OR LATERAL LOADS SHALL BE THE RESPONSIBILITY OF THE COLD-FORMED STEEL SUBCONTRACTOR AND THEIR STRUCTURAL ENGINEER. THE DESIGN OF COLD-FORMED STEEL SYSTEMS SHALL CONFORM TO THE GOVERNING BUILDING CODE AND REGULATIONS, AS WELL AS ANY SPECIAL CONDITIONS AND REQUIREMENTS AS INDICATED IN THE CONTRACT DOCUMENTS.
4. STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MEMBER DESIGNATIONS ARE SPECIFIED ON THE CONTRACT DOCUMENTS UON. WHERE SPECIFIC MANUFACTURERS ARE SPECIFIED AND PROPRIETARY FRAMING DESIGNATIONS INDICATED, FRAMING BY OTHER MANUFACTURERS MAY BE USED PROVIDED THOSE FRAMING MEMBERS HAVE DIMENSIONS EQUIVALENT TO THE SPECIFIED FRAMING AND ENGINEERING PROPERTIES EQUIVALENT TO OR GREATER THAN THE SPECIFIED FRAMING. SUCH PROPOSED SUBSTITUTIONS ARE PERMITTED ONLY IF APPROVED IN WRITING BY THE DESIGN PROFESSIONALS.
5. STRUCTURAL COLD-FORMED STEEL IS DEFINED AS THE FOLLOWING:
   a. ANY COLD-FORMED STEEL THICKER THAN 20GA (33 MIL)
   b. ANY EXTERIOR COLD-FORMED FRAMING AND CONNECTIONS
   c. ANY LOAD BEARING MEMBER
   d. ANY MEMBER CALLED OUT AND SPECIFIED IN THE STRUCTURAL DRAWINGS
   e. ALL OTHER COLD-FORMED STEEL IS NON-STRUCTURAL AND NOT A PART OF THE STRUCTURAL PACKAGE
6. STRUCTURAL COLD-FORMED STEEL (ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES) SHALL CONFORM TO THE FOLLOWING STANDARDS:

18GA (43 MIL) AND THINNER	ASTM A653, GR 33	Fy=33 KSI
16GA (54 MIL) AND THICKER	ASTM A653, GR 50	Fy=50 KSI
CONNECTION MATERIAL > 3/16"	ASTM A36	Fy=36 KSI
HOT-DIP COATING	ASTM A924, G60	
ELECTRO-PLATE COATING	ASTM A591	
ALUMINUM-ZINC COATING	ASTM A792, GR 40	
ELECTRODES FOR ARC WELDING	AWS 5.1 E60XX	

7. WIND LOADS PERPENDICULAR TO THE PLANE OF EXTERIOR WALLS SHALL BE COMPUTED BASED UPON THE COMPONENT AND CLADDING WIND PRESSURES INDICATED IN THE GENERAL NOTES.
8. DESIGN SHALL INCLUDE DESIGN AND DETAILING OF FRAMING, BRIDGING, TEMPORARY AND PERMANENT BRACING, AND ALL FRAMING CONNECTIONS.
9. COLD-FORMED STEEL COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR A FULL ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE SECURED IN PLACE UNTIL PROPERLY ATTACHED.
10. SPLICING OF COLD-FORMED MEMBERS IS NOT PERMITTED.
11. CUTOUTS, HOLES, OR NOTCHES ARE NOT PERMITTED IN COLD-FORMED STEEL ROOF AND FLOOR JOISTS, HEADERS, OR BEAMS WITHOUT PRIOR WRITTEN APPROVAL OF EITHER THE STRUCTURAL ENGINEER OR THE COLD-FORMED STEEL ENGINEER.
12. CUTTING OF COLD-FORMED STEEL MEMBERS SHALL BE ACCOMPLISHED WITH A SAW OR SHEARS. TORCH CUTTING OF SUCH MEMBERS IS NOT PERMITTED. THE CUTTING OF ANY LOAD BEARING MEMBER IS PROHIBITED.
13. HOLES FIELD CUT THROUGH COLD-FORMED STUD FRAMING SHALL BE MADE WITHIN THE LIMITATIONS OF THE PRODUCT AND THE PRODUCT DESIGN. HOLES SHALL BE REINFORCED AS RECOMMENDED BY THE MANUFACTURER.
14. ALL WELDS SHALL COMPLY WITH THE REQUIREMENTS OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI S100, AND THE STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3.
15. CONNECTIONS SHALL BE MADE BY WELDS, SCREWS, BOLTS, OR OTHER APPROVED FASTENING DEVICES OR METHODS PROVIDING POSITIVE ATTACHMENT AND RESISTANCE TO LOOSENING. FASTENERS SHALL BE MATERIAL COMPATIBLE WITH THE COLD-FORMED STEEL.
16. LIMIT HORIZONTAL COLD-FORMED STUD OUT-OF-PLANE DEFLECTIONS DUE TO WIND LOADS TO THE FOLLOWING:
   a. STUDS BACKING UP BRICK, MASONRY, AND STONE: L/600 OR 0.3" MAX
   b. STUDS BACKING UP ALL OTHER FACADE MATERIALS: L/360 UON
17. TEMPORARY BRACING SHALL BE PROVIDED WHERE REQUIRED TO ENSURE ALIGNMENT UNTIL WALL PANELS ARE INSTALLED AND CONSTRUCTION IS COMPLETED.
18. CONSTRUCTION SHALL NOT BEGIN UNTIL SHOP DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED BY THE DESIGN PROFESSIONALS. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS INCLUDING CONNECTIONS TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED BY THE COLD-FORMED STEEL FRAMING CONTRACTOR'S ENGINEER LICENSED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS, INCLUDING DESIGN CALCULATIONS AND SHOP DRAWINGS, SHALL BE SIGNED AND SEALED BY THAT ENGINEER.

POST-INSTALLED ANCHORS

1. BASIS OF DESIGN ANCHORS:

INSTALLATION CONDITION	ANCHOR TYPE
EXPANSION ANCHORS INTO CONCRETE	HILTI KWIK BOLT TZZ (ESR-4266)
SCREW ANCHORS > 1/4"Ø INTO CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)
ADHESIVE ANCHORS INTO CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HIT-Z ROD (ESR-4868)or HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HAS-E THREADED ROD (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 AND HAS-E THREADED ROD (ESR-3814) FOR ALL ADHESIVE ANCHORS, HOLES SHALL BE HAMMER DRILLED AND HOLES MAY BE DRY OR WATER SATURATED.
EXPANSION ANCHORS INTO GROUTED CMU	HILTI KWIK TZ2 (ESR-4561)
SCREW ANCHORS > 1/4"Ø INTO GROUTED CMU	HILTI KWIK HUS-EZ (ESR-3056)
SCREW ANCHORS = 1/4"Ø INTO CONCRETE OR GROUTED CMU	HILTI KWIK-CON II+
ADHESIVE ANCHORS IN GROUTED CMU OR SOLID BRICK	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD (ESR-4143)
ADHESIVE ANCHORS INTO HOLLOW CMU, BRICK OR MULTI-WYTHE BRICK WALLS	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD AND APPROPRIATE SCREEN TUBE (ESR-4144)
ADHESIVE DOWELING FOR ANCHORING REINFORCING BARS INTO (E) CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 ADHESIVE (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 ADHESIVE (ESR-3814)
POWDER-ACTUATED FASTENERS (PAF's) IN CONCRETE	HILTI X-U FASTENERS (ESR-2269)

2. ALTERNATIVE ANCHORS MAY BE USED IF APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION VERIFYING PROPOSED ALTERNATIVE ANCHORS WILL PROVIDE THE SAME OR GREATER LOAD-CARRYING CAPACITY AS THE SPECIFIED ANCHORS. THE CONTRACTOR SHALL SUBMIT EVALUATION REPORTS. EACH ANCHOR CONFIGURATION SHALL BE EVALUATED AND COMPARED TO THE SPECIFIED ANCHOR.
3. CRACKED CONCRETE IS ASSUMED FOR ALL ANCHORAGE DESIGN CONDITIONS UNLESS IT CAN BE DEMONSTRATED THROUGH ENGINEERING ANALYSIS THAT THE CONCRETE REMAINS UNCRACKED DURING THE GOVERNING ULTIMATE LOAD STATE.
4. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
5. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR EACH SPECIFIED ANCHOR TYPE. THE STRUCTURAL ENGINEER SHALL RECEIVE DOCUMENTATION VERIFYING ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE BEEN TRAINED PRIOR TO COMMENCEMENT OF INSTALLING ANCHORS.
6. INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPROVED CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT. THE ACCEPTABILITY OF CERTIFICATIONS OTHER THAN THE ACI/CRSI ADHESIVE INSTALLER CERTIFICATION WILL BE DETERMINED BY THE STRUCTURAL ENGINEER.
7. CONCRETE SHALL HAVE ACHIEVED DESIGN STRENGTH PRIOR TO INSTALLING POST-INSTALLED ANCHORS. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE THAT HAS CURED FOR A MINIMUM OF 21 DAYS.
8. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
9. POST-INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED IN A MANNER THAT DOES NOT DAMAGE REINFORCING STEEL, CONDUIT OR OTHER EMBEDDED ITEMS. REINFORCING STEEL SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. PLATES AND BRACKETS THROUGH WHICH ANCHORS WILL BE INSTALLED SHALL NOT BE FABRICATED UNTIL AFTER REINFORCING STEEL IS LOCATED AND ANCHOR LOCATIONS ARE ADJUSTED. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER TO OBTAIN ALTERNATIVE ANCHOR LAYOUT WHERE ANCHORS MUST BE RELOCATED TO AVOID INTERFERENCE WITH REINFORCING STEEL.
10. ADHESIVE ANCHORING SYSTEMS ARE PERMITTED TO BE USED FOR INSTALLATION OF REINFORCING STEEL INTO EXISTING CONCRETE ONLY WHERE SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS OR WITH APPROVAL FROM THE STRUCTURAL ENGINEER. LOCATIONS WHERE REINFORCING STEEL WAS INCORRECTLY PLACED OR MISSED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
11. WHERE POST-INSTALLED MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE SPECIFIED, THOSE DEPTHS ARE THE REQUIRED MINIMUM NOMINAL EMBEDMENT DEPTHS. WHERE MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE NOT INDICATED, THE ANCHORS SHALL BE INSTALLED TO THE MAXIMUM EMBEDMENT DEPTH NOTED IN THE MANUFACTURER'S PRODUCT TECHNICAL GUIDE.
12. ADHESIVE ANCHORS SHALL BE INSTALLED WITH A MINIMUM 6" EMBEDMENT DEPTH UON.

ELEVATORS

1. THE ELEVATORS, ASSOCIATED EQUIPMENT, GUIDE RAILS, AND BRACKETS ARE DEFERRED SUBMITTAL ITEMS.
2. INSTALLATION OF ELEVATORS, ASSOCIATED EQUIPMENT, GUIDE RAILS, AND BRACKETS SHALL NOT BE STARTED UNTIL DETAILED PLANS AND ENGINEERING CALCULATIONS HAVE BEEN SUBMITTED FOR REVIEW AND APPROVAL BY THE DESIGN PROFESSIONALS.
3. PROVISION FOR ELEVATORS, ASSOCIATED EQUIPMENT, GUID

TESTING, INSPECTIONS, AND OBSERVATIONS

1. THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
2. SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
3. DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
   a. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
   b. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
   c. FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
   d. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
4. SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY THE IBC. THESE ITEMS INCLUDE:
   a. POST-INSTALLED ANCHORS - INSPECTION
5. THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

CONCRETE CONSTRUCTION:

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
REINFORCING BAR WELDING:			AWS D1.4 ACI 318: 26.6.4	
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X		
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X		
c. INSPECTS ALL OTHER WELDS	X			
INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		X	ACI 318: 17.8.2	
VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	1908.9
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X	ACI 318: 26.9	
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318: 26.11.2	
INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.1.2(b)	

MASONRY CONSTRUCTION – LEVEL 2:

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	TMS 402	TMS 602
PRIOR TO CONSTRUCTION:				
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS	X			ART. 1.5
b. VERIFICATION OF f'm	X			ART. 1.4 B
AS CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		ART. 2.1, 2.6 A & 2.6 C
b. GRADE AND SIZE OF ANCHORAGES		X		ART. 2.4 B & 2.4 H
c. GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND ANCHORAGES		X		ART. 3.4 & 3.6 A
d. SAMPLE PANEL CONSTRUCTION		X		ART. 1.6 D
PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		ART. 3.2 D & 3.2 F
b. PLACEMENT OF ANCHORAGES		X	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X	SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7	ART. 3.2 E & 3.4
DURING CONSTRUCTION:				
a. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	X			ART. 1.5 & 1.6.3
b. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		ART. 1.5
c. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		ART. 3.3 B
d. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X		ART. 3.3 F
e. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1(e), 6.2.1 & 6.3.1	
f. WELDING OF REINFORCEMENT	X		SEC. 6.1.6.1.2	
g. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		X		ART. 1.8 C & 1.8 D
h. PLACEMENT OF GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X			ART. 3.5 & 3.6 C
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3 & 1.4 B.4

STRUCTURAL STEEL – INSPECTION TASKS PRIOR TO BOLTING (AS A MINIMUM):

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	RCSC SECTIONS
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	TABLE N5.6-1	2.1, 9.1
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	TABLE N5.6-1	FIG. C-2.1, 9.1
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O	TABLE N5.6-1	2.3.2, 2.7.2, 9.1
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	TABLE N5.6-1	4, 8
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	TABLE N5.6-1	3, 9.1, 9.3
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O	TABLE N5.6-1	7, 9.2
PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	TABLE N5.6-1	2.2, 8, 9.1

O=OBSERVE AND P=PERFORM

STRUCTURAL STEEL – INSPECTION TASKS DURING TO BOLTING (AS A MINIMUM):

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	RCSC SECTIONS
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	O	O	TABLE N5.6-2	7.1(1), 8.1, 9.1
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O	TABLE N5.6-2	8.1, 9.1
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	TABLE N5.6-2	8.2, 9.2
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O	TABLE N5.6-2	8.2, 9.2

O=OBSERVE AND P=PERFORM

STRUCTURAL STEEL – INSPECTION TASKS AFTER BOLTING (AS A MINIMUM):

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	RCSC SECTIONS
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	TABLE N5.6-3	

P=PERFORM

STRUCTURAL STEEL – INSPECTIONS TASKS PRIOR TO WELDING (AS A MINIMUM):

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	AWS D1.1 CLAUSES
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O	TABLE N5.4-1	N/A
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P	TABLE N5.4-1	6.3
MANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE	P	P	TABLE N5.4-1	6.2
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	TABLE N5.4-1	6.2
WELDER IDENTIFICATION	O	O	TABLE N5.4-1	6.4 (WELDER QUALIFICATIO N)
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				
a. JOINT PREPARATIONS	O	O	TABLE N5.4-1	6.5.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O	TABLE N5.4-1	5.22
c. CLEANLINESS (CONDITION OF STEEL SURFACES)	O	O	TABLE N5.4-1	5.14
d. TACKING (TACK WELD QUALITY AND LOCATION)	O	O	TABLE N5.4-1	5.17
e. BACKING TYPE AND FIT (IF APPLICABLE)	O	O	TABLE N5.4-1	5.9, 5.21.1.1
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- & K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)				
a. JOINT PREPARATIONS	P	O	TABLE N5.4-1	9.11.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P	O	TABLE N5.4-1	9.11.2
c. CLEANLINESS (CONDITION OF STEEL SURFACES)	P	O	TABLE N5.4-1	9.11.2
d. TACKING (TACK WELD QUALITY AND LOCATION)	P	O	TABLE N5.4-1	9.11.2
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	TABLE N5.4-1	6.5.2, 5.16 (& SEE AISC 360 SECT. J1.6)
FIT-UP OF FILLET WELDS	P/O[1]	O	TABLE N5.4-1	
e. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O[1]	O	TABLE N5.4-1	5.21.1
f. CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O[1]	O	TABLE N5.4-1	5.14
g. TACKING (TACK WELD QUALITY AND LOCATION)	P/O[1]	O	TABLE N5.4-1	5.17
f. CHECK WELDING EQUIPMENT	O		TABLE N5.4-1	6.2, 5.10

O=OBSERVE AND P=PERFORM

STRUCTURAL STEEL – INSPECTION TASKS DURING WELDING (AS A MINIMUM):

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	AWS D1.1 CLAUSES
USE OF QUALIFIED WELDERS	O	O	TABLE C-N5.4-2	6.4
CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	TABLE N5.4-2	6.2
a. PACKAGING	O	O	TABLE N5.4-2	5.3.1
b. EXPOSURE CONTROL	O	O	TABLE N5.4-2	5.3.2 (FOR SMAW), 5.3.3 (FOR SAW)
NO WELDING OVER CRACKED TACK WELDS	O	O	TABLE N5.4-2	5.17
ENVIRONMENTAL CONDITIONS				
a. WIND SPEED WITHIN LIMITS	O	O	TABLE N5.4-2	5.11.1
b. PRECIPITATION AND TEMPERATURE	O	O	TABLE N5.4-2	5.11.2
WPS FOLLOWED	O	O	TABLE 5.4-2	6.3.3, 6.5.2, 5.5, 5.20
a. SETTINGS ON WELDING EQUIPMENT	O	O	TABLE N5.4-2	
b. TRAVEL SPEED	O	O	TABLE N5.4-2	
c. SELECTED WELDING MATERIALS	O	O	TABLE N5.4-2	
d. SHIELDING GAS TYPE/FLOW RATE	O	O	TABLE N5.4-2	
e. PREHEAT APPLIED	O	O	TABLE N5.4-2	5.6, 5.7
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O	TABLE N5.4-2	
g. PROPER POSITION (F, V, H, OH)	O	O	TABLE N5.4-2	
WELDING TECHNIQUES	O	O	TABLE 5.4-2	6.5.2, 6.5.3, 5.23
a. INTERPASS AND FINAL CLEANING	O	O	TABLE N5.4-2	5.29.1
b. EACH PASS WITHIN PROFILE LIMITATIONS	O	O	TABLE N5.4-2	
c. EACH PASS MEETS QUALITY REQUIREMENTS	O	O	TABLE N5.4-2	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P	TABLE N5.4-2	

O=OBSERVE AND P=PERFORM

STRUCTURAL STEEL – INSPECTION TASKS AFTER WELDING (AS A MINIMUM):

VERIFICATION AND INSPECTION TASK	QC	QA	AISC 360	AWS D1.1 CLAUSES
WELDS CLEANED	O	O	TABLE N5.4-3	5.29.1
SIZE, LENGTH, AND LOCATION OF WELDS	P	P	TABLE N5.4-3	6.5.1
WELDS MEET VISUAL ACCEPTANCE CRITERIA			TABLE N5.4-3	6.5.3
a. CRACK PROHIBITION	P	P	TABLE N5.4-3	TABLE 6.1(1)
b. WELD/BASE-METAL FUSION	P	P	TABLE N5.4-3	TABLE 6.1(2)
c. CRATER CROSS-SECTION	P	P	TABLE N5.4-3	TABLE 6.1(3)
d. WELD PROFILES	P	P	TABLE N5.4-3	TABLE 6.1(4), 5.24
e. WELD SIZE	P	P	TABLE N5.4-3	TABLE 6.1(6)
f. UNDERCUT	P	P	TABLE N5.4-3	TABLE 6.1(7)
g. POROSITY	P	P	TABLE N5.4-3	TABLE 6.1(8)
ARC STRIKES	P	P	TABLE N5.4-3	5.28
k-AREA[1]	P	P	TABLE N5.4-3	
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES[2]	P	P	TABLE N5.4-3	5.16, 6.5.2 (& SEE AISC 360 SECT. J1.6)
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	TABLE N5.4-3	5.9, 5.30
REPAIR ACTIVITIES	P	P	TABLE N5.4-3	6.5.3, 5.25
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	TABLE N5.4-3	6.5.4, 6.5.5
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O	TABLE N5.4-3	

O=OBSERVE AND P=PERFORM

1 WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF THE WELDING.

2 AFTER ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS,

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE
INSTALLATION OF OPEN-WEB JOISTS AND GIRDERS:			
a. END CONNECTIONS - WELDING AND BOLTED		X	SJI SPEC. LISTED IN SECTION 2207.1
b. STANDARD HORIZONTAL AND DIAGONAL BRIDGING		X	SJI SPEC. LISTED IN SECTION 2207.1
a. HORIZONTAL AND DIAGONAL BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X	

STRUCTURAL DECKING:

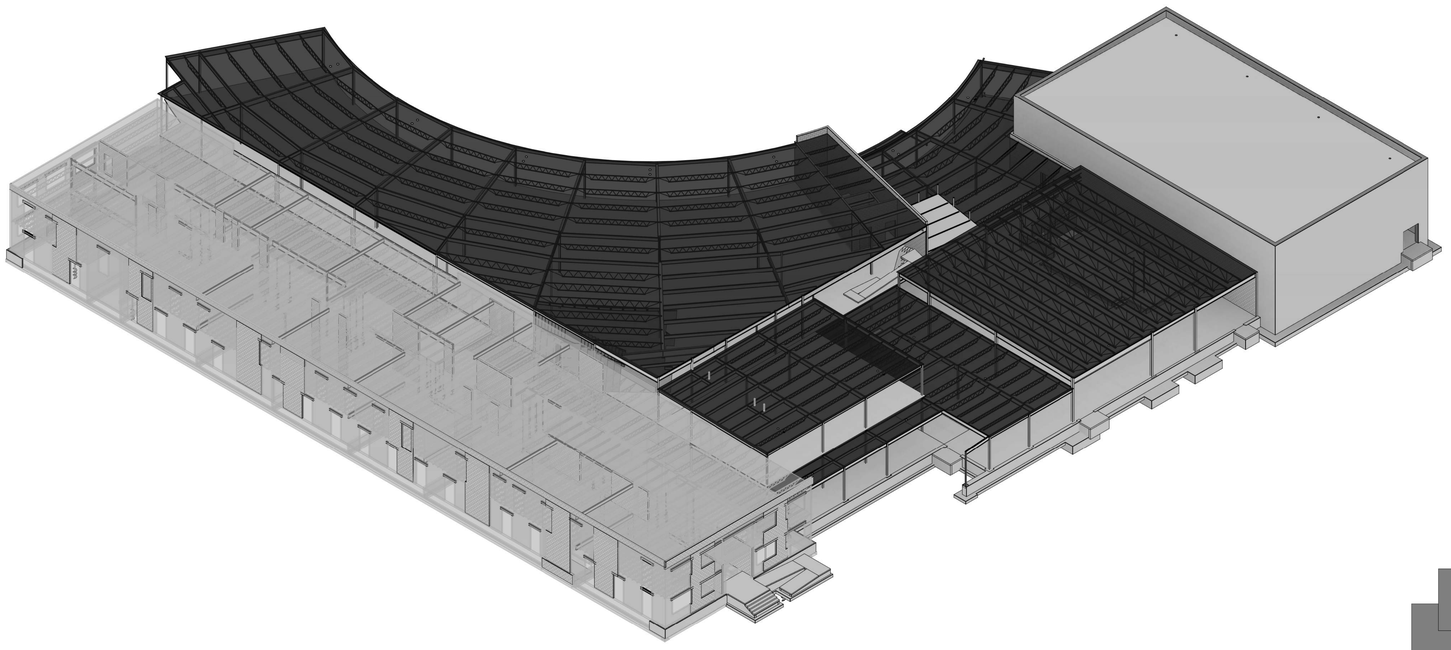
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE
1. DECK PLACEMENT AND ATTACHMENT	X	X	

COLD-FORM STEEL FRAMING:

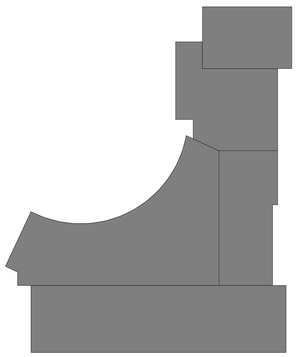
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	IBC REFERENCE
PREFABRICATED COLD FORM STRUCTURAL ELEMENTS		X	1704.2.5
SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING FOR ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM		X	1705.11.2, 1705.12.3

SOILS:

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL		X
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X



3D VIEW - FOR REFERENCE ONLY



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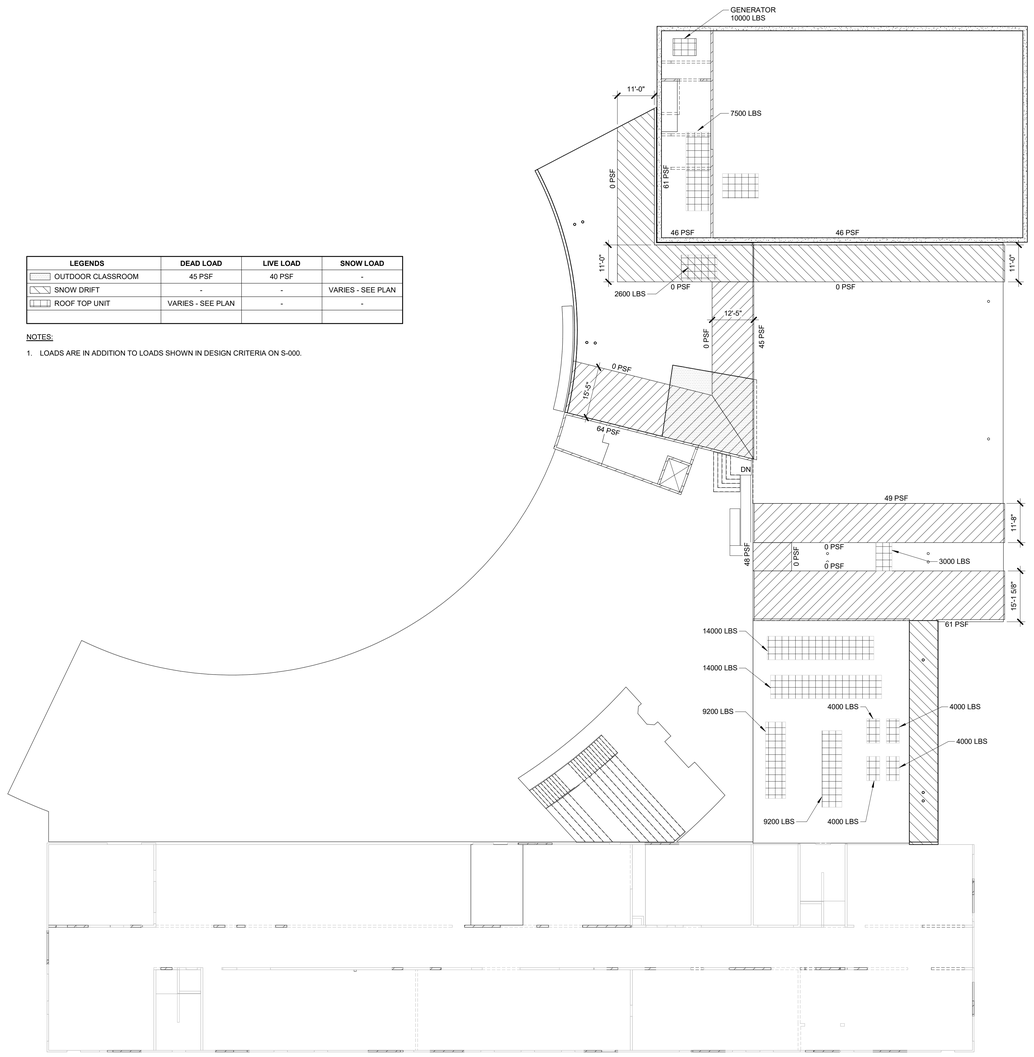
TESTING, INSPECTIONS, AND OBSERVATIONS

S-002
BID DOCUMENTS

LEGENDS	DEAD LOAD	LIVE LOAD	SNOW LOAD
OUTDOOR CLASSROOM	45 PSF	40 PSF	-
SNOW DRIFT	-	-	VARIES - SEE PLAN
ROOF TOP UNIT	VARIES - SEE PLAN	-	-

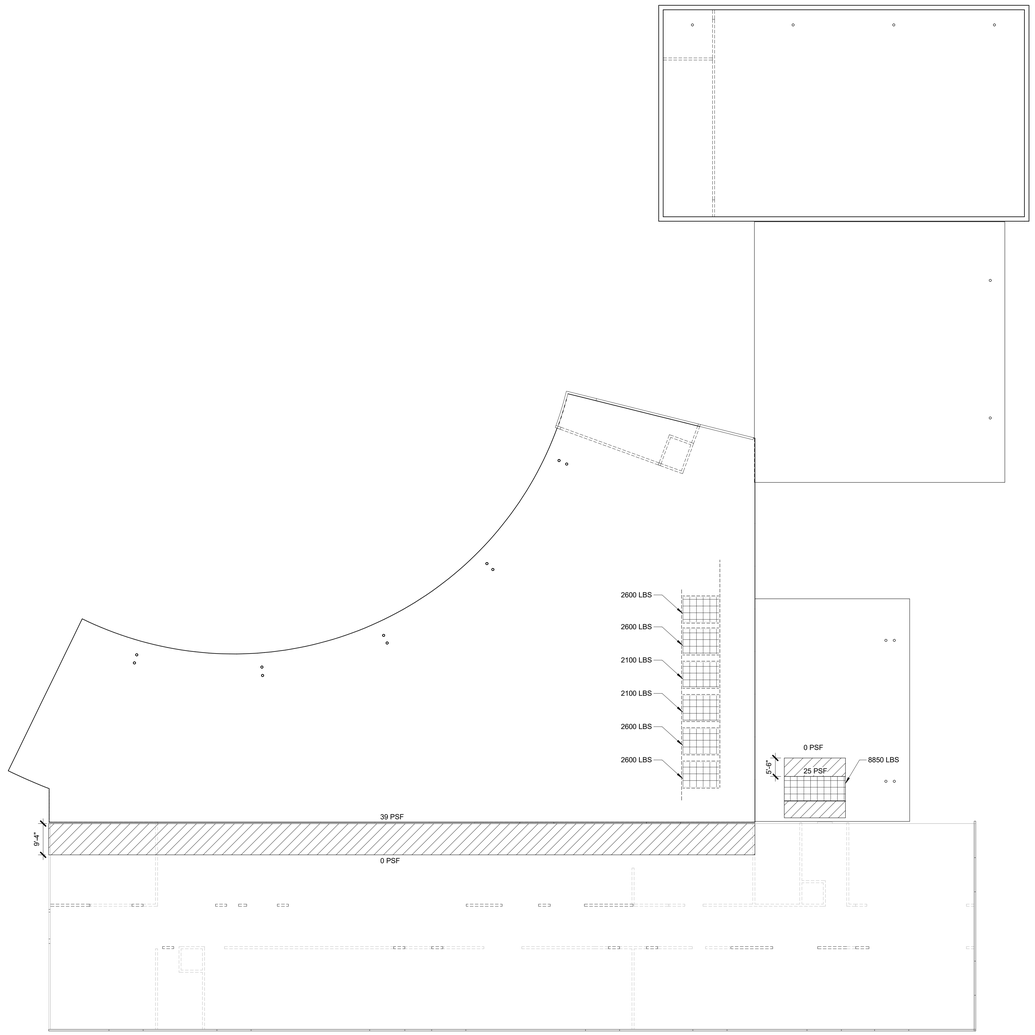
NOTES:

1. LOADS ARE IN ADDITION TO LOADS SHOWN IN DESIGN CRITERIA ON S-000.



1 SECOND FLOOR AND LOW ROOF LOADING PLAN

1/16" = 1'-0"



2 ROOF LOADING PLAN

1/16" = 1'-0"

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LOADING PLANS

S-003

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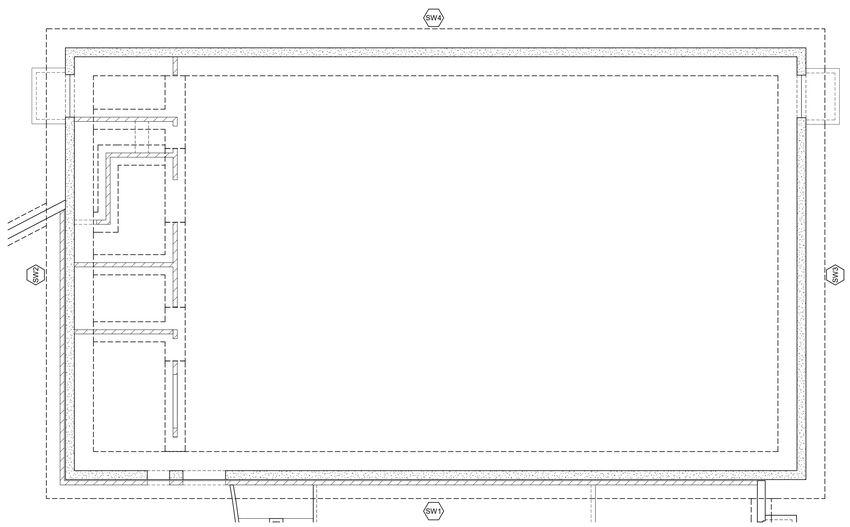


1 STORM SHELTER SHEAR WALL PLAN

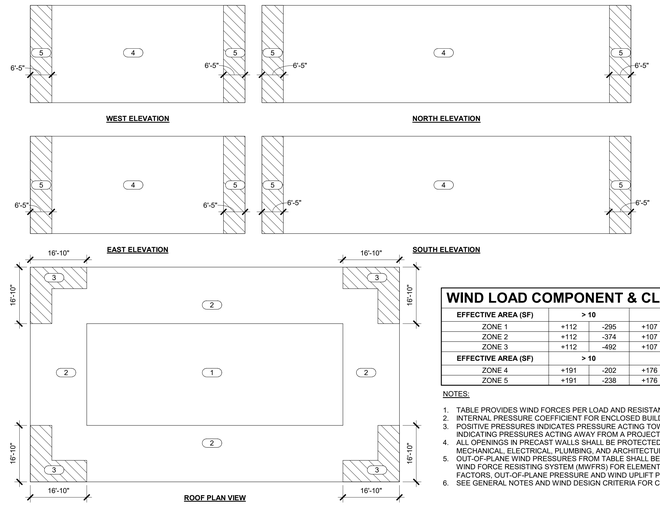
1/8" = 1'-0"

PRECAST SHEAR WALL PANEL LATERAL LOAD TABLE

MARK (SW#)	LEVEL INPUT	WIND LOAD (KIP) (1.0WL)	SEISMIC LOAD (KIP)	REMARKS
SW1	-	133.5	29.0	-
SW2	-	250.2	31.7	-
SW3	-	250.2	27.0	-
SW4	-	133.5	29.0	-

NOTES:

1. TABLE PROVIDES ULTIMATE WIND FORCES PER ICC-500 (1.0WL).
2. TABLE PROVIDES IN-PLANE (SHEAR) WIND LOADS AT PRECAST WALLS. MAIN WIND FORCE RESISTING IN-PLANE LOADS SHALL BE COMBINED WITH AXIAL AND OUT-OF-PLANE LOADS AS REQUIRED PER ICC-500. REFER TO S-000 FOR GEOGRAPHICAL STRUCTURAL FACTORS, AND TO THIS SHEET FOR OUT-OF-PLANE PRESSURE AND WIND UPLOFT PRESSURE.
3. PRECAST MANUFACTURER TO DESIGN SYSTEM TO COMPLY WITH ICC-500.



WIND LOAD COMPONENT & CLADDING MAX (±) PSF

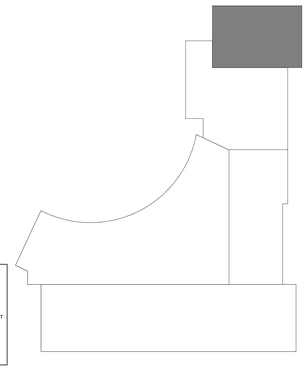
EFFECTIVE AREA (SF)	> 10		25		50		> 100	
ZONE 1	+112	-295	+107	-274	+103	-258	+99	-241
ZONE 2	+112	-374	+107	-347	+103	-326	+99	-305
ZONE 3	+112	-492	+107	-437	+103	-395	+99	-353
EFFECTIVE AREA (SF)	**> 10**		**50**		**200**		**> 500**	
ZONE 4	+191	-202	+176	-188	+163	-175	+155	-167
ZONE 5	+191	-238	+176	-209	+163	-184	+155	-167

NOTES:

1. TABLE PROVIDES WIND FORCES PER LOAD AND RESISTANCE FACTOR DESIGN (1.0WL).
2. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDINGS EQUAL ±0.55.
3. POSITIVE PRESSURES INDICATES PRESSURE ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATING PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
4. ALL OPENINGS IN PRECAST WALLS SHALL BE PROTECTED. SEE PLAN, DETAILS, AND COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS.
5. OUT-OF-PLANE WIND PRESSURES FROM TABLE SHALL BE COMBINED WITH AXIAL LOADS CALCULATED USING MAIN WIND FORCE RESISTING SYSTEM (MWFRS) FOR ELEMENTS. REFER TO S-000 FOR GEOGRAPHICAL STRUCTURAL FACTORS, OUT-OF-PLANE PRESSURE AND WIND UPLIFT PRESSURE.
6. SEE GENERAL NOTES AND WIND DESIGN CRITERIA FOR COMPONENTS AND CLADDING LOADING FOR MAIN BUILDING.

2 C&C WIND PRESSURES AT STORM SHELTER

NO SCALE



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LOADING PLAN - STORM SHELTER

S-004

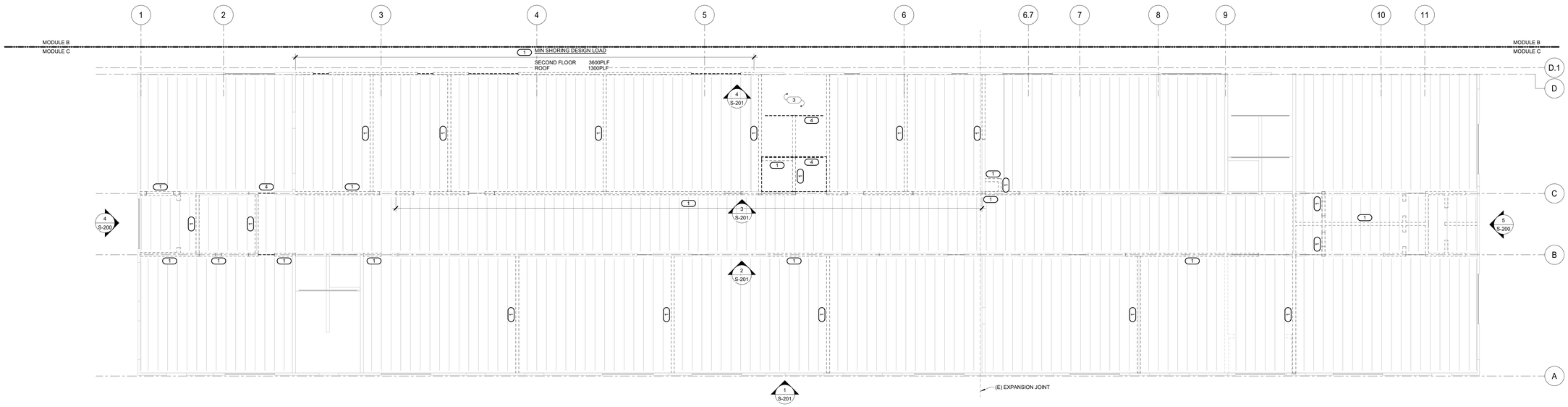
BID DOCUMENTS

NOTES:

1. STRUCTURAL WALLS, SLABS AND BEAMS ARE SHOWN TO BE DEMO'ED. ALL OTHER EXISTING WALLS SHOWN HERE ARE TO REMAIN. SEE ARCH DEMO PLANS FOR ADDITIONAL DEMO SCOPE.
2. DEMO SLAB ON GRADE AS REQUIRED FOR NEW WORK. COORDINATE EXTENTS WITH ARCH, MEP, AND FOUNDATION DRAWINGS.
3. THE TEMPOARY SHORING AND FOUNDATIONS FOR THE SUPPORT OF EXISTING FLOOR AND ROOF ARE THE RESPONSIBILITY OF THE CONTRACTOR. SEE GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION. CONTRACTOR SHALL COORDINATE ALL MEANS AND METHODS TO INSTALL NEW SCOPE WHILE SUPPORTING EXISTING.

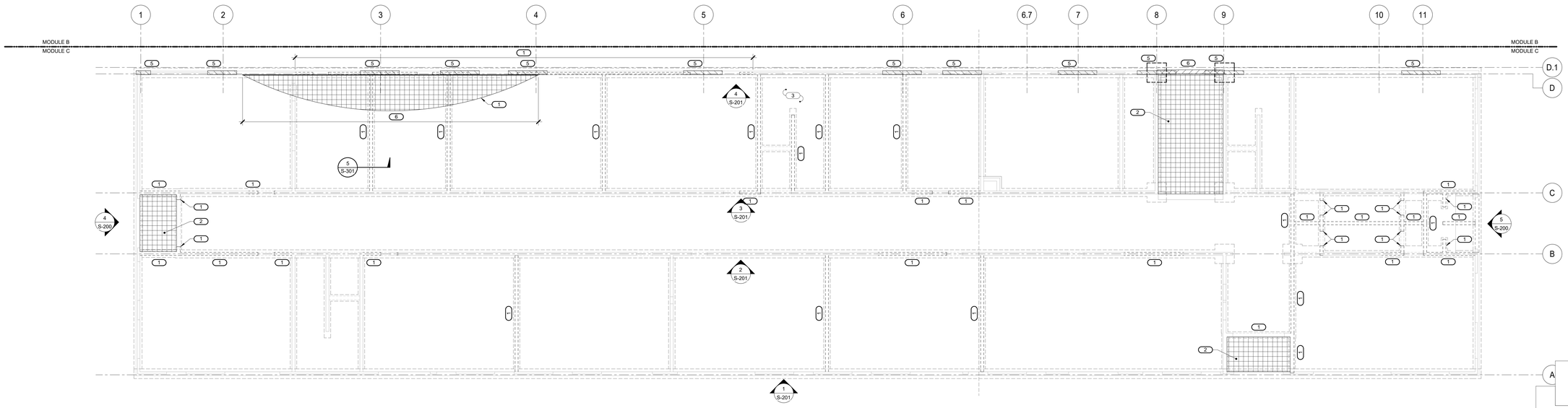
KEYNOTES: (#)

1. EXISTING MASONRY WALL TO BE REMOVED. PROVIDE TEMPORARY SHORING OF THE FLOOR AND ROOF FRAMING TO PROVIDE A CONTINUOUS LOAD PATH DOWN TO EXISTING FOUNDATIONS OR NEW PADS. THE SHORING IS TO BE INSTALLED PRIOR TO WALL REMOVAL AND REMAIN IN PLACE UNTIL THE NEW FRAMING AND FOUNDATIONS ARE INSTALLED TO CREATE A NEW LOAD PATH TO SUPPORT THE EXISTING FLOOR AND ROOF. REFER TO NEW FRAMING PLANS FOR CONCEPTS ON TEMPORARY SHORING AND NEW WORK.
2. SLAB ON GRADE TO BE DEMOLISHED.
3. EXISTING STAIR TO BE DEMOLISHED. SEE ARCH.
4. EXISTING BEAM TO BE DEMOLISHED.
5. DEMOLISH EXISTING FOUNDATION WALL AND FOOTING TO INSTALL NEW PILE CAP AND HELICAL PIERS.
6. DEMOLISH EXISTING FOUNDATION WALL TO EL (97'-0").



2 SECOND FLOOR DEMO PLAN - MODULE C

1/8" = 1'-0"



1 FOUNDATION DEMO PLAN - MODULE C

1/8" = 1'-0"

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DEMO PLAN - MODULE C

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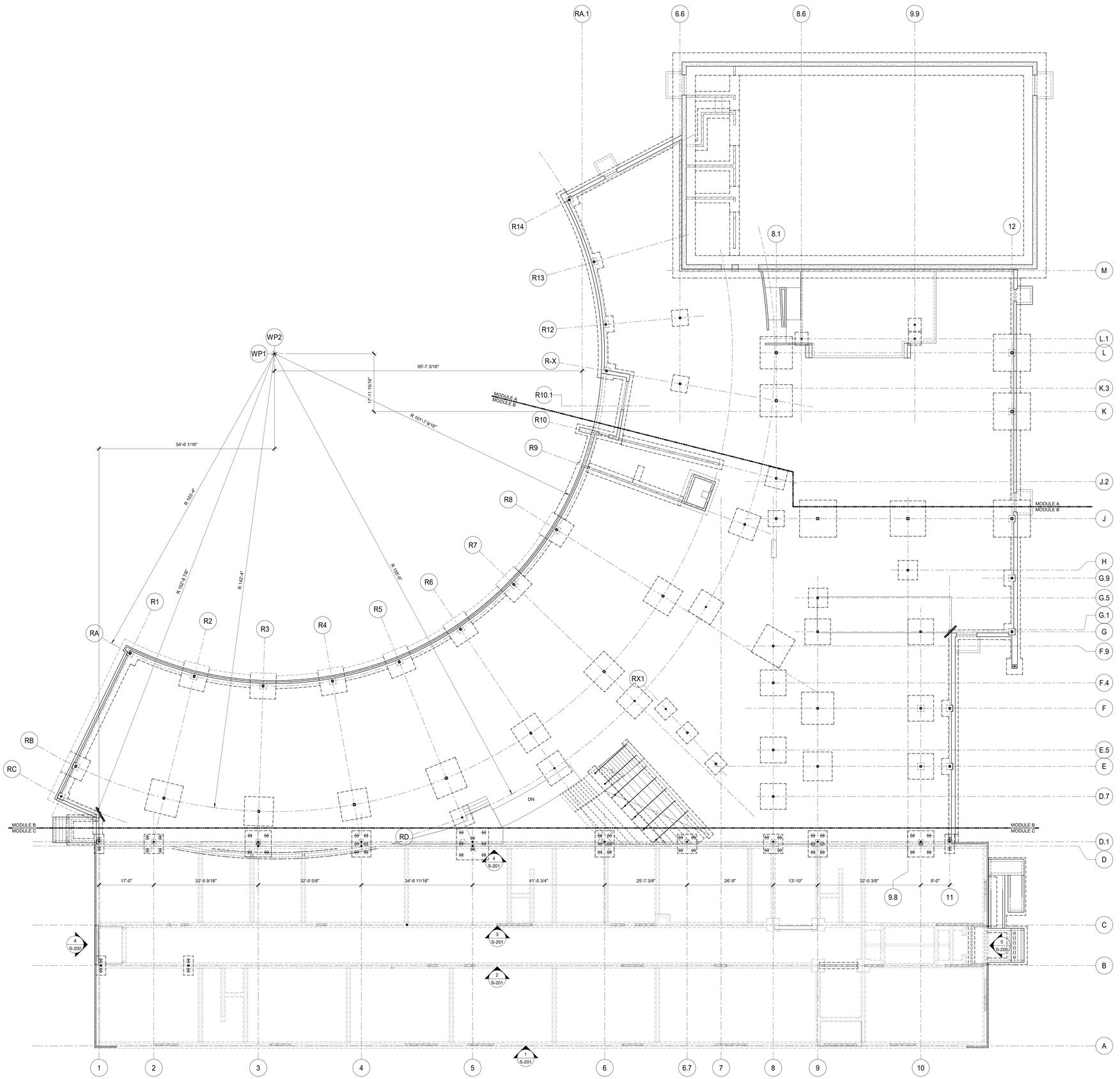

1 OVERALL FOUNDATION PLAN

3/32" = 1'-0"

NORTH

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING		REMARKS
			LONG DIRECTION	SHORT DIRECTION	
CF2.0	2'-0"	1'-0"	(2)#5	-	
CF3.0	3'-0"	1'-0"	(3)#5	#5 @ 12" OC	
CF4.0	4'-0"	1'-0"	(4)#5	-	
CF5.0	5'-0"	1'-0"	(5)#5	#5 @ 12" OC	
CF7.0	7'-0"	1'-6"	(7)#7	#5 @ 12" OC	

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCING		REMARKS
				LONG DIRECTION	SHORT DIRECTION	
F4.0	4'-0"	4'-0"	1'-0"	(4)#5	(4)#5	
F5.0	5'-0"	5'-0"	1'-0"	(5)#5	(5)#5	
F6.0	6'-0"	6'-0"	1'-0"	(6)#5	(6)#5	
F7.0	7'-0"	7'-0"	2'-0"	(7)#5 T&B	(7)#5 T&B	
F8.0	8'-0"	8'-0"	2'-0"	(8)#5 T&B	(8)#5 T&B	
F9.0	9'-0"	9'-0"	2'-0"	(9)#5 T&B	(9)#5 T&B	
F10.0	10'-0"	10'-0"	2'-0"	(10)#5 T&B	(10)#5 T&B	
F11.0	11'-0"	11'-0"	2'-0"	(11)#5 T&B	(11)#5 T&B	
F11.5	11'-6"	11'-6"	3'-0"	(11)#7 T&B	(11)#7 T&B	

CMU WALL REINFORCING SCHEDULE

MARK (MW#)	WALL THICKNESS	VERTICAL BAR SIZE AND SPACING	REMARKS
MW1	8"	#5@48" OC	FIRE WALL. GROUT ALL CORES
MW2	8"	#5@48" OC	-
MW3	8"	#5@48" OC	PROVIDE 8" BOND BEAM @ 5'-0" OC. REINF WITH (2) #4

NOTES:

1. TYP HORIZONTAL REINFORCEMENTS PER SPECIFICATIONS AND IS INTENDED TO BE A 'DUROWALL - TRUSS TYPE' OR EQUIVALENT.
2. PLACE HORIZONTAL BAR IN BOND BEAM UNIT, TYP.
3. "GROUT ALL CORES" INDICATES EVERY REINFORCED CORE AND UNREINFORCED CORE.
4. REINFORCED CORES ARE ALWAYS GROUTED.
5. SEE S-401 FOR TYP CMU DETAILING.
6. PROVIDE #4 @ 96" OC VERTICAL REINFORCEMENT AND TYPICAL HORIZONTAL REINFORCEMENT FOR NON-BEARING CMU WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

PILE CAP SCHEDULE

MARK	THICKNESS	REINFORCING		REMARKS
		LONG DIRECTION	SHORT DIRECTION	
PC2	2'-0"	(8)#6	(4)#6	-
PC4	2'-0"	(8)#6	(8)#6	-
PC5	2'-0"	(9)#6	(9)#6	-
PC6	2'-0"	(11)#6	(8)#6	-
PC8	2'-0"	(11)#6	(11)#6	-

NOTES:

1. SEE S-302 FOR PILE CAP DETAILS.

HELICAL PILE REACTION SCHEDULE

(HP)	LOAD	REMARKS
H1	12 KIPS	-
H2	20 KIPS	-
H3	25 KIPS	-

NOTES:

1. LOADS ARE UNFACTORED TOTAL LOAD AT EACH INDIVIDUAL HELICAL.
2. POSITIVE LOADS ACT DOWNWARD, NEGATIVE LOADS ACT IN UPLIFT.

FOUNDATION WALL REINFORCING SCHEDULE

WALL THICKNESS	HORIZONTAL		VERTICAL		REMARKS
	EXTERIOR FACE	INTERIOR FACE	EXTERIOR FACE	INTERIOR FACE	
FROST WALLS:					
0" TO 11"	#5 @ 18" OC	-	#5 @ 12" OC	-	SEE NOTE 1
1'-0" TO 1'-4"	#5 @ 12" OC	#5 @ 12" OC	#5 @ 18" OC	#5 @ 18" OC	-
1'-5" TO 2'-0"	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	-

NOTE:

1. CENTERED IN WALL THICKNESS.

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OVERALL FOUNDATION PLAN

S-101

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PROJECT #240006955.00

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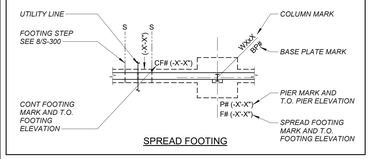


SPREAD FOOTING

NOTES:

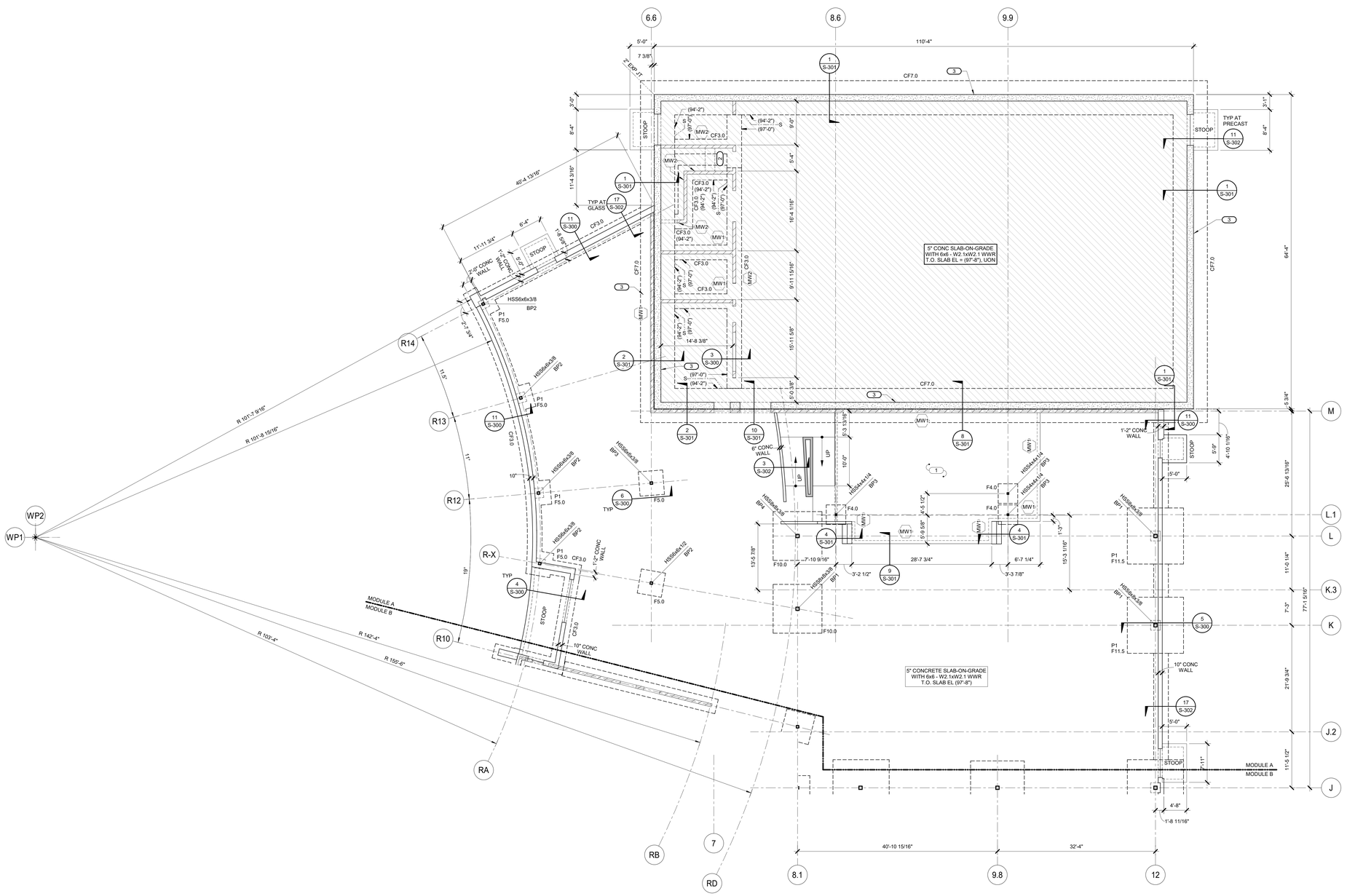
1. SEE S-300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
2. TOP OF SLAB EL (97'-8"), UON.
3. EXTERIOR T.O. WALL EL (97'-8"), UON.
4. SEE GENERAL NOTES AND TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
6. SEE ARCHITECTURAL DRAWINGS FOR SLAB CONTOURS, VALLEYS AND RIDGES, FLOOR DRAINS, CURBS, ETC.
7. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. DROP TOP OF FOOTING ELEVATIONS AS REQUIRED TO ALLOW MECHANICAL PIPE TO PASS OVER FOOTING.
8. PROVIDE PIPE SLEEVES AT ALL LOCATIONS WHERE MECHANICAL PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECHANICAL DRAWINGS. SEE DETAIL 10/S-300.
9. BP# INDICATES COLUMN BASE PLATE. SEE S-500 FOR DETAILS.
10. PROVIDE CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS. SEE 7/S-300 AND 1/S-302.
11. F# AND CF# INDICATE SPREAD AND CONTINUOUS FOOTING. TOP OF EXTERIOR FOOTING EL (94'-2"), UON. TOP OF INTERIOR FOOTING EL (97'-0"), UON. SEE S-101 FOR FOOTING SCHEDULES.
12. P# INDICATES CONCRETE PIER. TOP OF PIER EL (97'-8"), UON. SEE S-301 FOR DETAILS.
13. SEE S-400 FOR TYPICAL PRECAST DETAILS.
14. MW# INDICATES CMU WALLS. SEE S-101 FOR SCHEDULE AND S-401 FOR DETAILS.
15. FOR TYPICAL STOOP DETAIL SEE 4/S-300.
16. CIVIL FFE OF 692.42' EQUALS ARCH/STRUCTURAL ELEVATION OF 97'-8".

KEYNOTES: (#)

1. 5" SLAB ON GEO FOAM, REINFORCE WITH 6x6 W2.1xW2.1 . T.O. SLAB EL (99'-4").
2. THICKENED SLAB AT STAIR STRINGER. SEE 7/S-301.
3. 16" PRECAST WALL PANEL (4/4/8); 4" EXTERIOR PRECAST, 4" INSULATION, 8" INTERIOR PRECAST - SEE ARCH AND SPECIFICATIONS FOR MORE INFORMATION.
4. 12" THICK ELEVATOR MAT. T.O. SLAB EL (92'-8"), SEE DETAIL 12/S-300 AND 13/S-300 FOR ADDITIONAL INFORMATION.

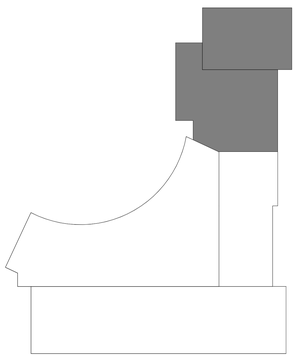
LEGENDS:

HATCH INDICATES HARDENED STORM SHELTER MEETING THE STRUCTURAL DESIGN PARAMETERS OF ICC 500. DOORS SHALL BE STORM RATED AND OPENINGS TO BE PROTECTED USING THE TYPICAL DETAILS ON S-400.



1 FOUNDATION PLAN - MODULE A

1/8" = 1'-0"



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FOUNDATION PLAN - MODULE A

S-101A

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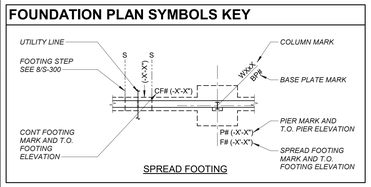


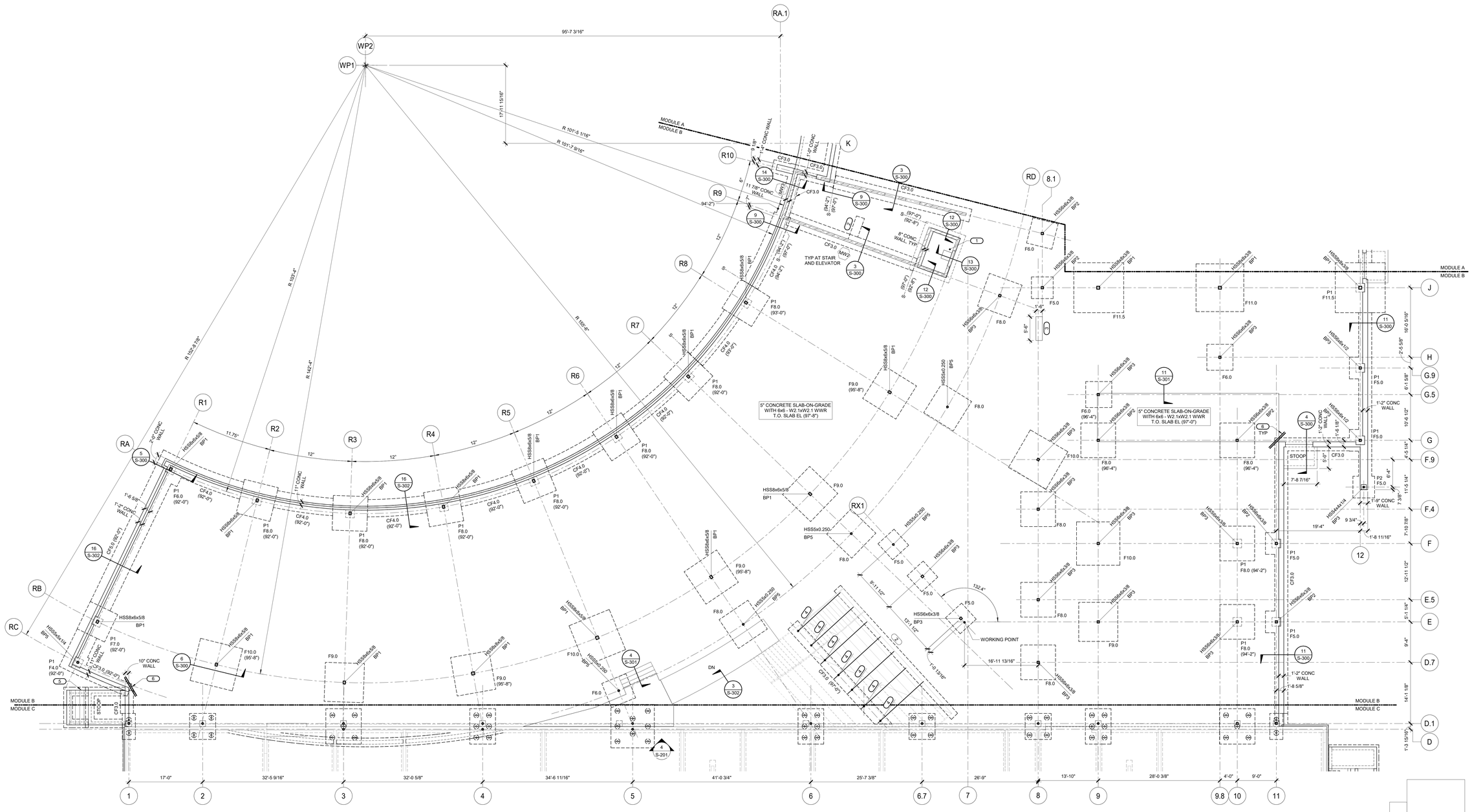
SPREAD FOOTING

NOTES:

1. SEE S-300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS. SEE PLAN FOR TOP OF SLAB ELEVATION.
2. F# AND CF INDICATE SPREAD AND CONTINUOUS FOOTINGS. TOP OF EXTERIOR FOOTING EL (94'-2"), UON. TOP OF INTERIOR FOOTING EL (97'-0"), UON. SEE S-101 FOR FOOTING SCHEDULES.
3. P# INDICATES CONCRETE PIER. TOP OF PIER EL (97'-8"), UON. SEE S-301 FOR DETAILS.
4. BP# INDICATES COLUMN BASE PLATE. SEE S-500 FOR DETAILS.
5. EXTERIOR T.O. WALL EL (97'-8"), UON.
6. MW# INDICATES CMU WALLS. SEE S-101 FOR SCHEDULE AND S-401 FOR DETAILS.
7. PROVIDE CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS. SEE 7/S-300 AND 1/S-302.
8. PROVIDE PIPE SLEEVES AT ALL LOCATIONS WHERE MECHANICAL PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECHANICAL DRAWINGS. SEE DETAIL 10/S-300.
9. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. DROP TOP OF FOOTING ELEVATIONS AS REQUIRED TO ALLOW MECHANICAL PIPE TO PASS OVER FOOTING.
10. SEE GENERAL NOTES AND TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
11. CONTRACTOR VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
12. SEE ARCHITECTURAL DRAWINGS FOR SLAB CONTOURS, VALLEYS AND RIDGES, FLOOR DRAINS, CURBS, ETC.
13. CIVIL FFE 0F 692.42' EQUALS ARCH/STRUCTURAL ELEVATION OF (97'-8").

KEYNOTES: (#)

1. 12" CONCRETE MAT SLAB. T.O. SLAB EL (92'-8"). SEE 12/S-300.
2. THICKENED SLAB FOR STAIR STRINGER SEE 7/S301.
3. TRENCH DRAIN SEE 15/S-301 FOR DETAIL. SEE MEP DRAWINGS FOR LOCATION.
4. HSS3x3x1/4 COLUMN UNDER STAIR STRINGER WITH BASE PLATE BP7.
5. CONCRETE STAIR - SEE PLAN FOR DETAILING AND ARCH/CIVIL FOR ELEVATIONS, DIMENSIONS, AND ADDITIONAL INFORMATION.
6. (2) #4 x 5'-0" CENTERED IN SLAB ABOUT THE REENTRANT CORNER.



4 S-200

5 S-200

NORTH

1 FOUNDATION PLAN - MODULE B

1/8" = 1'-0"

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FOUNDATION PLAN - MODULE B

S-101B

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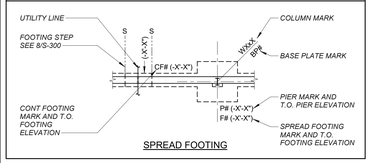
FOUNDATION PLAN SYMBOLS KEY



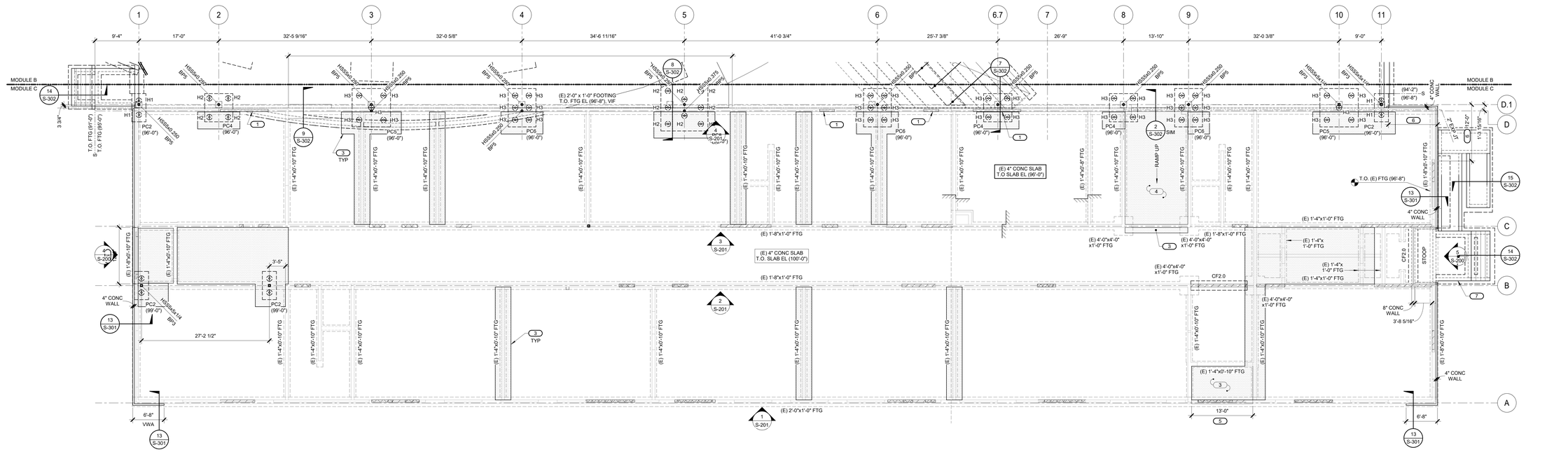
SPREAD FOOTING

NOTES:

1. SEE S-300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS. SEE PLAN FOR TOP OF SLAB ELEVATION.
2. EXTERIOR T.O. WALL EL (100'-0"), UON.
3. SEE GENERAL NOTES AND TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR SLAB CONTOURS, VALLEYS AND RIDGES, FLOOR DRAINS, CURBS, ETC.
6. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. DROP TOP OF FOOTING ELEVATIONS AS REQUIRED TO ALLOW MECHANICAL PIPE TO PASS OVER FOOTING.
7. PROVIDE PIPE SLEEVES AT ALL LOCATIONS WHERE MECHANICAL PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECHANICAL DRAWINGS. SEE DETAIL 10/S-300.
8. BP# INDICATES COLUMN BASE PLATE. SEE S-500 FOR DETAILS.
9. PROVIDE CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS. SEE 7/S-300 AND 1/S-302.
10. F# AND CF INDICATE SPREAD AND CONTINUOUS FOOTINGS. TOP OF EXTERIOR FOOTING EL (94'-2"), UON. TOP OF INTERIOR FOOTING EL (97'-0"), UON. SEE S-101 FOR FOOTING SCHEDULES.
11. P# INDICATES CONCRETE PIER. TOP OF PIER EL (97'-8"), UON. SEE S-301 FOR DETAILS.
12. MW# INDICATES CMU WALLS. SEE S-101 FOR SCHEDULE AND S-401 FOR DETAILS.
13. PC# INDICATES PILE CAP. SEE S-302.
14. CIVIL FFE OF 692.42' EQUALS ARCH/STRUCTURAL ELEVATION OF 97'-8".
15. PATCH AND REPAIR ALL SLAB AREAS DAMAGED AND DEMOLISHED WITH 4" THICK CONCRETE SLAB REINF WITH W2.1xW2.1 WWR. DOWEL NEW SLAB SECTION TO EXISTING PER DETAIL 14/S-301.
16. NOT ALL SLAB INFILLS ARE SHOWN - CONTRACTOR TO COORDINATE WITH DEMO PLAN AND NEW UTILITIES AND UNDER GROUND SCOPE.
17. H# INDICATES HELICAL PIER SUPPORTING PILE CAP AND COLUMNS. SEE S-101FOR SCHEDULE AND PILE CAP DETAILS FOR MORE INFORMATION.

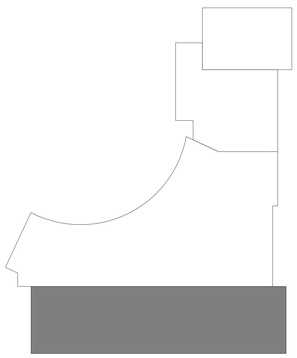
KEYNOTES: (#)

1. MASONRY WALL INFILL. SEE 4/S-402 AND 6/S-301.
2. SEE ARCH DRAWING FOR EXTEND OF DEMO TO EXISTING WALL
3. 4" CONCRETE SLAB ON GRADE WITH 6x6 - W2.1xW2.1 WWR. SEE 14/S-301 FOR CONNECTION TO EXISTING. T.O. SLAB EL = (100'-0"). CONTRACTOR TO COORDINATE EXTENTS OF SLAB REPLACEMENT AT EXISTING WALL DEMOLITION AND INSTALLATION OF NEW SCOPE (WHERE APPLICABLE).
4. 4" CONCRETE SLAB WITH 6x6 - W2.1xW2.1 WWR TO SLOPE FOR RAMP. B.O. RAMP EL = (97'-6").
5. 10" CONCRETE FOUNDATION WALL, SEE SCHEDULE FOR REINFORCING. DOWEL REINFORCING INTO EXISTING FOUNDATION WALL WITH HILTI HIY-HY 200 EPOXY, MIN 6" EMBED.
6. PROVIDE UNDER PINNING BELOW THE EXISTING FOOTING TO PROVIDE FROST PROTECTION. BOTTOM OF UNDER PINNING EL (94-0"). SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
7. CONCRETE STAIR AND RAMP - SEE PLAN FOR DETAILING AND ARCH/CIVIL FOR ELEVATIONS, DIMENSIONS, AND ADDITIONAL INFORMATION.



1 FOUNDATION PLAN - MODULE C

1/8" = 1'-0"



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FOUNDATION PLAN - MODULE C

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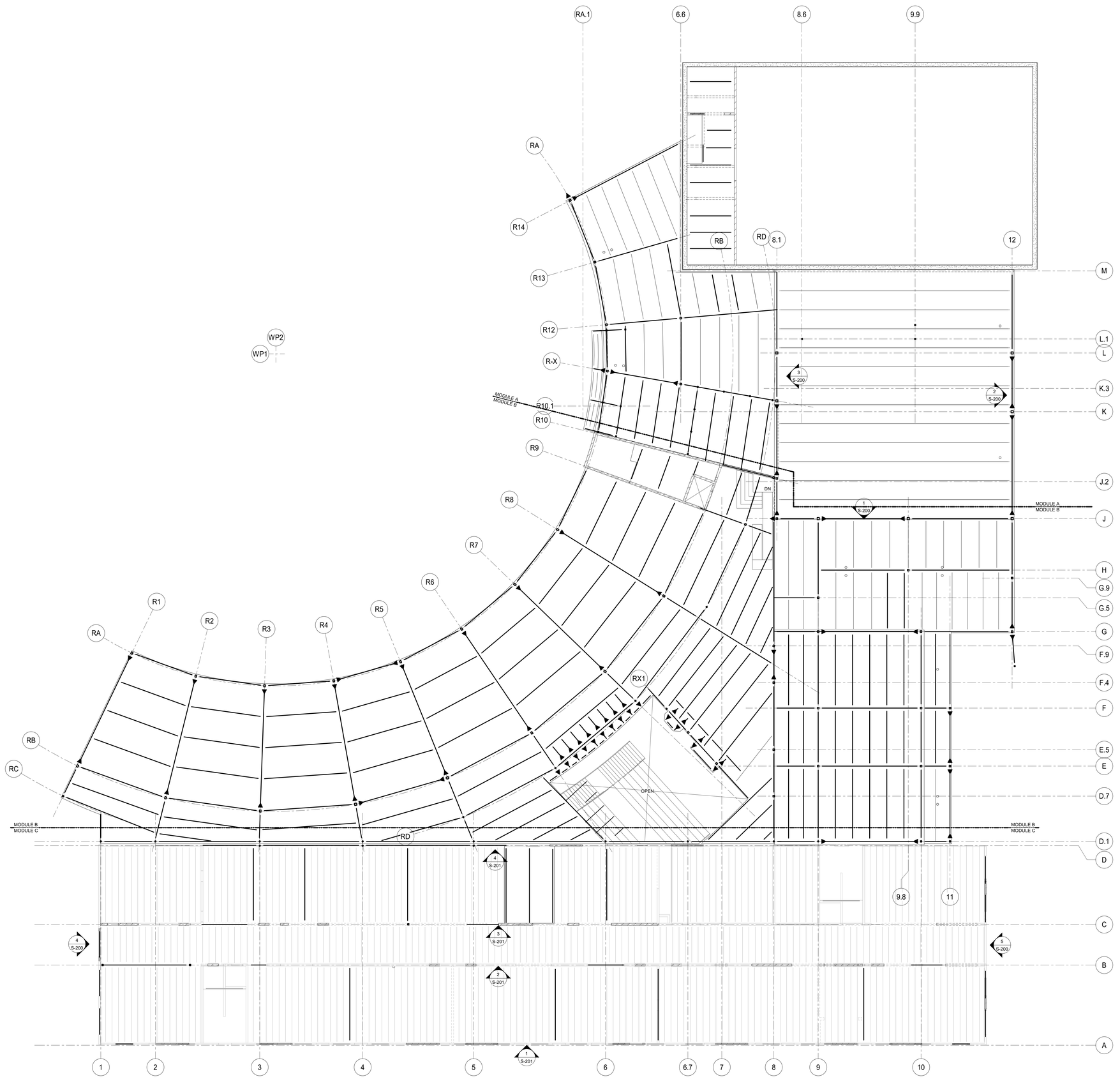
LINTEL SCHEDULE

MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	8" BOND BEAM WITH (2)#5	7/S-401	-
L2	16" BOND BEAM WITH (2)#5	7/S-401	-
L3	HSS8x4x3/8 (LSV)	17/S-401	-
L4	(2) L3 1/2x2 1/2x3/8	8/S-402	-
L5	W8x10	11/S-401	-
L6	W8x21	11/S-401	-

NOTE:

1. BEARING LENGTH EA END = 8" UON.



1 OVERALL SECOND FLOOR FRAMING PLAN

3/32" = 1'-0"

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OVERALL SECOND FLOOR FRAMING PLAN

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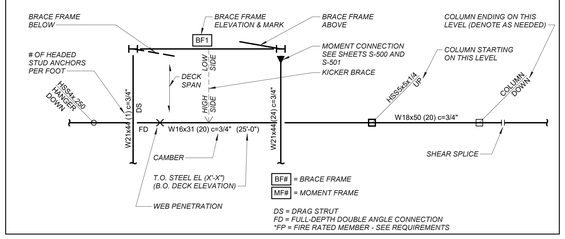
STEEL PLAN SYMBOLS KEY

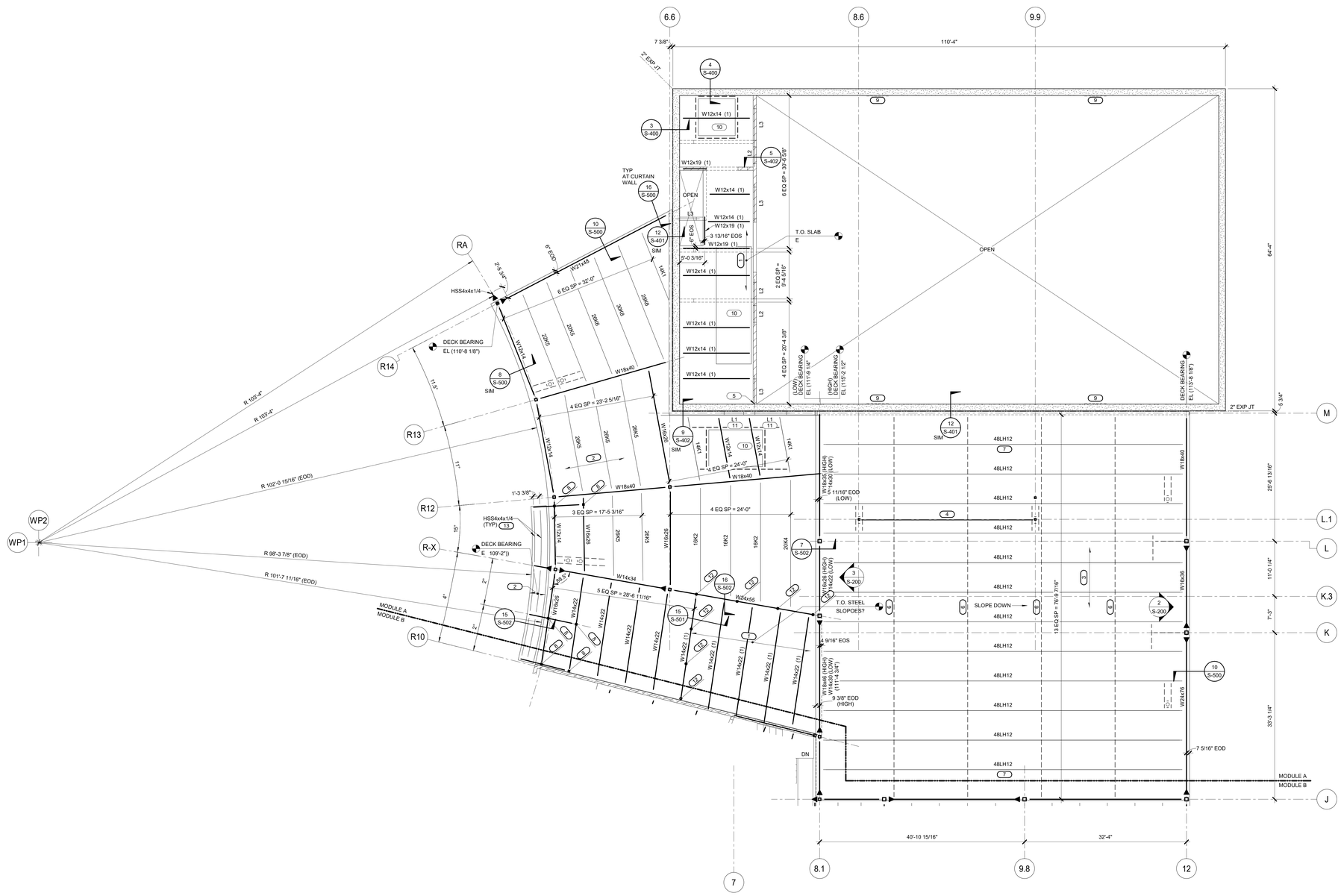


NOTES:

1. SEE PLAN FOR TOP OF SLAB AND STEEL ELEVATIONS.
   A. K-SERIES JOIST HAVE 2 1/2" JOIST SEAT, UON
   B. LH-SERIES JOIST HAVE 5" JOIST SEATS, UON
2. (#) INDICATES NUMBER OF 3/4"Ø X 4 1/2" HEADED STUDS PER FOOT ALONG BEAM LENGTH.
3. SEE 4/S-500 AND 5/S-500 FOR TYPICAL COMPOSITE SLAB CONSTRUCTION DETAILS.
4. SEE S-500 AND S-501 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
5. PROVIDE ANGLE FRAMING AROUND FLOOR OPENINGS PER 4/S-501 AND 7/S-501. PROVIDE FRAMING AROUND ROOF OPENINGS PER 7/S-500.
6. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL. SEE S-102 FOR LINTEL SCHEDULE AND GENERAL NOTES FOR NON-STRUCTURAL WALLS.
7. BRACE NON-STRUCTURAL CMU PARTITIONS PER 10/S-400 AND 6/S-401.
8. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
9. SEE S-401 FOR TYPICAL MASONRY CONSTRUCTION DETAILS.
10. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
11. SEE 9/S-502 FOR SKEWED CONNECTION DETAIL.

KEYNOTES: #

1. 3" NORMAL WEIGHT CONC SLAB ON 2" (18 GA 50 KSI) COMPOSITE DECK, 5" NOMINAL THICKNESS, 2 SPAN MINIMUM. REINFORCE WITH 6x6 - W2.1xW2.1 WWR. SEE PLAN FOR TOP OF SLAB ELEVATION.
2. 1 1/2" (18 GA) TYPE B ROOF DECK. FASTEN WITH 5/8" PUDDLE WELDS IN 36/4 PATTERN AND #10 SIDELAP SCREWS. SEE PLAN FOR TOP OF STEEL ELEVATIONS.
3. 1 1/2" (18 GA) TYPE BA (ACOUSTIC) ROOF DECK. FASTEN WITH 5/8" PUDDLE WELDS IN 36/4 PATTERN AND #10 SIDELAP SCREWS. ROOF DECK SLOPES, SEE PLAN FOR TOP OF STEEL ELEVATIONS.
4. OPERABLE PARTITION WALL. SEE 11/S-501 FOR DETAIL.
5. PRECAST DESIGNER TO SUPPLY EMBED PLATE FOR LINTEL BEARING. SEE 12/S-400
6. STANDARDS SJI BRIDGING. FINAL DESIGN AND LAYOUT BY JOIST MANUFACTURER. JOIST DESIGNER TO COORDINATE WITH MECHANICAL DUCT WORK.
7. JOIST CAMBER TO BE LIMITED TO 2" TO AID DECK INSTALLATION TO ADJACENT WALL. DESIGN JOIST TO HAVE SIMILAR DEFLECTION SO BOTTOM CHORD STAYS ALIGNED WITH ADJACENT JOIST.
8. HSS4x4x1/4 HANGER DOWN.
9. BASKETBALL HOOP AT PRECAST WALL. PRECAST DESIGNER TO DESIGN EMBED REQUIRED FOR HOOPS. GC TO COORDINATE.
10. MECHANICAL UNIT, SEE S-003 FOR WEIGHT. AT STEEL DECK PROVIDE L6x6x3/8 AT PERIMETER OF RTU FOR CURB SUPPORT. AT COMPOSITE DECK PROVIDE HOUSEKEEPING PAD PER 15/S-501
11. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR PENETRATION REQUIREMENTS AT FIRE WALLS TO MAINTAIN FIRE RATING.
12. HSS3x3x1/4 POST FOR RAILING SEE 11/S-500 FOR CONNECTION TO BEAM.
13. ROLL BEAM TO MATCH CURVED RADIUS OF CANOPY.



1 SECOND FLOOR AND LOW ROOF FRAMING PLAN - MODULE A

1/8" = 1'-0"

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SECOND FLOOR AND LOW ROOF FRAMING PLAN - MODULE A

S-102A

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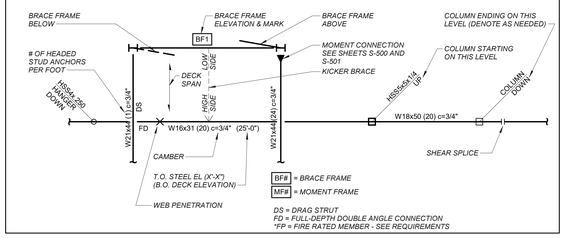
REF. SCALE IN INCHES 0 1 2 3

PROJECT #240006955.00

STEEL PLAN SYMBOLS KEY

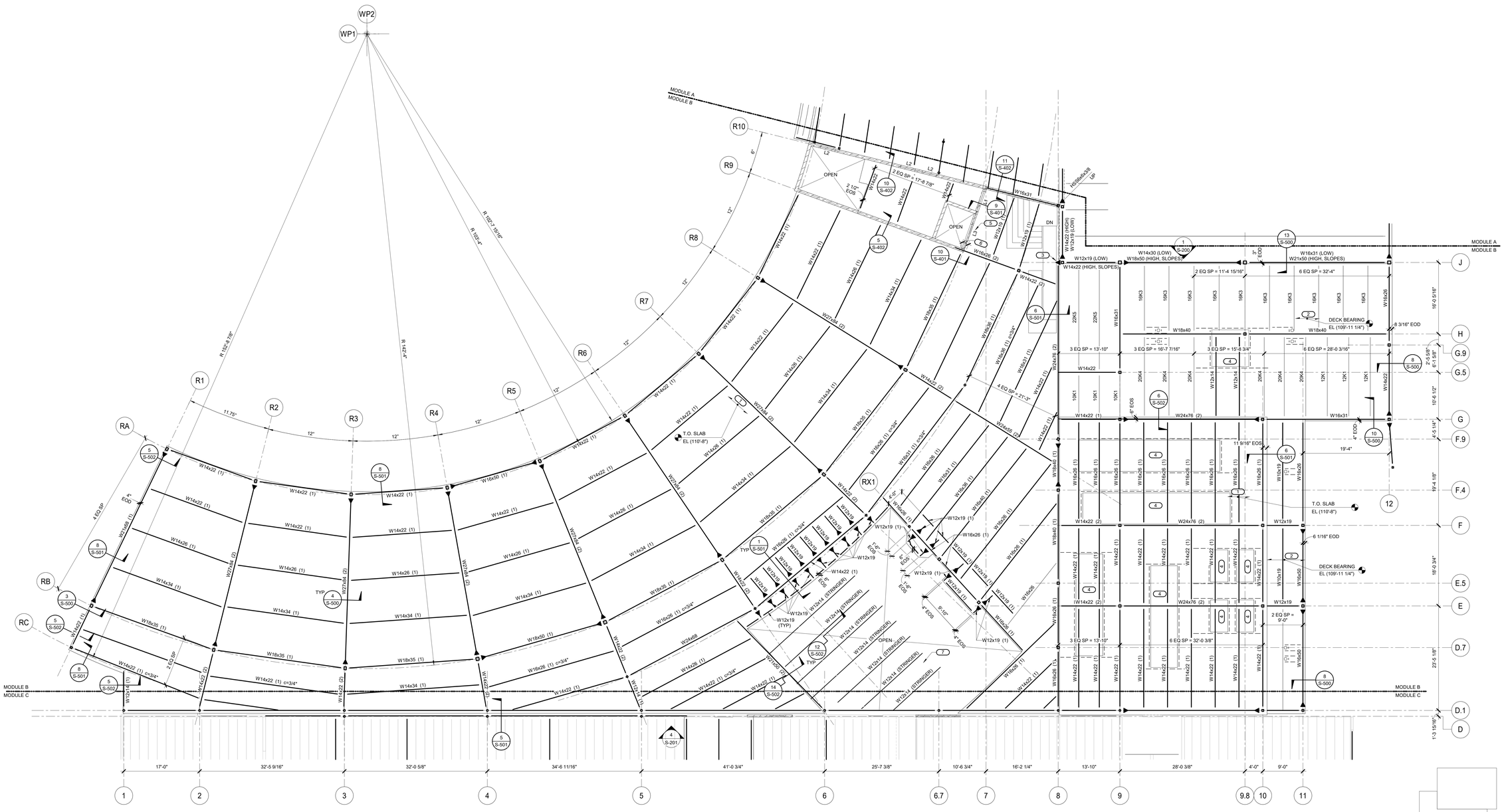


NOTES:

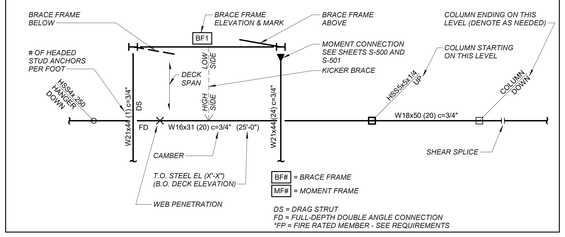
1. SEE PLAN FOR TOP OF SLAB AND STEEL ELEVATIONS.
   A. K-SERIES JOIST HAVE 2 1/2" JOIST SEAT, UON.
2. (#) INDICATES NUMBER OF 3/4"Ø X 4 1/2" HEADED STUDS PER FOOT ALONG BEAM LENGTH.
3. SEE 4/S-500 AND 5/S-500 FOR TYPICAL COMPOSITE SLAB CONSTRUCTION DETAILS.
4. SEE S-500 AND S-501 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
5. PROVIDE ANGLE FRAMING AROUND FLOOR OPENINGS PER 4/S-501 AND 7/S-501. PROVIDE FRAMING AROUND ROOF OPENINGS PER 7/S-500.
6. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL. SEE S-102 FOR LINTEL SCHEDULE AND GENERAL NOTES FOR NON-STRUCTURAL WALLS.
7. BRACE NON-STRUCTURAL CMU PARTITIONS PER 10/S-400 AND 6/S-401.
8. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
9. SEE S-401 FOR TYPICAL MASONRY CONSTRUCTION DETAILS.
10. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
11. SEE 13/S-502 FOR BENT BEAM DETAIL AT STAIR STRINGER.
12. SEE 9/S-502 FOR SKEWED CONNECTION DETAIL.

KEYNOTES: (#)

1. 3" NORMAL WEIGHT CONC SLAB ON 2" (18 GA 50 KSI) COMPOSITE DECK, 5" NOMINAL THICKNESS, 2 SPAN MINIMUM. REINFORCE WITH 6x6 - W2.1xW2.1 WWR. SEE PLAN FOR TOP OF SLAB ELEVATION.
2. 1 1/2" (18 GA) TYPE B ROOF DECK. FASTEN WITH 5/8" PUDDLE WELDS IN 36/4 PATTERN AND #10 SIDELAP SCREWS. SEE PLAN FOR TOP OF STEEL ELEVATIONS.
3. W18x40
4. RTU, SEE S-003 FOR WEIGHT AT METAL DECK. PROVIDE L6x6x3/8 AT PERIMETER OF RTU FOR CURB SUPPORT. AT COMPOSITE DECK PROVIDE HOUSEKEEPING PAD PER 15/S-501.
5. LINTEL TO SPAN ENTIRE LENGTH BETWEEN CMU WALLS FOR ELEVATOR INSTALL.
6. W16x26 TO HAVE 1'-0" BEAM BEARING AT CMU WALL. W18x50 TO CONNECT TO W16x26 WITH TYPICAL SHEAR CONNECTION.
7. STAIR MEMBER LAYOUT, SIZES AND DETAILS ARE FOR FRAMING INTENT. STAIRS ARE DELEGATED DESIGN. SEE GENERAL NOTES FOR DELEGATED DESIGN SUBMITTAL INFORMATION.


WP1
WP2
MODULE A
MODULE B
MODULE C
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
RA
RB
RC
RX1
R 182'-6 7/8"
R 169'-4"
R 169'-2 15/16"
11.75°
12°
T.O. SLAB EL (110'-8")
T.O. SLAB EL (110'-8")
DECK BEARING EL (109'-11 1/4")
W14x22 (1)
W16x50 (1)
W18x35 (1)
W24x76 (2)
W12x19 (1)
W16x26 (1)
W14x22 (2)
W12x19
W14x30 (LOW) W18x50 (HIGH, SLOPES)
W16x31 (LOW) W21x50 (HIGH, SLOPES)
W14x22 (HIGH) W12x19 (LOW)
W14x22 (HIGH, SLOPES)
W12x19 (LOW)
W18x40
W16x31
W14x22
W24x76 (2)
W16x26
W12x19
W14x22 (1)
W16x31
W16x40
W18x40
W18x50
W18x35
W16x26
W14x22
W12x19
W14x22 (1)
W24x76 (2)
W16x31
W16x26
W12x19
W14x22 (2)
W24x76 (2)
W12x19
W16x26
W14x22 (1)
W14x22 (2)
W24x76 (2)

STEEL PLAN SYMBOLS KEY

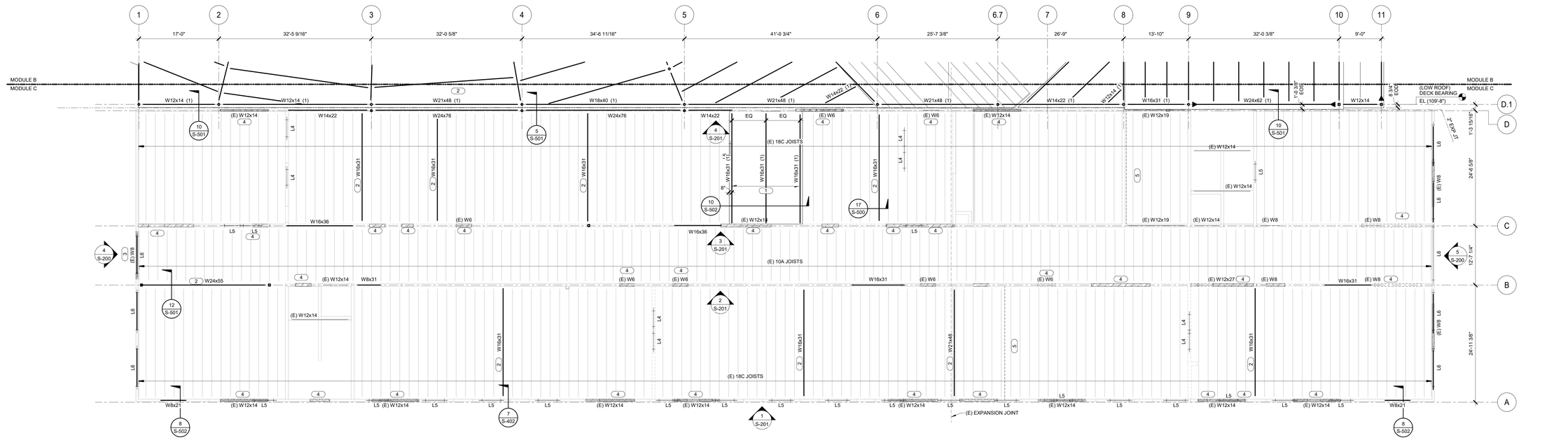


NOTES:

1. TOP OF (E) FLOOR EL (110'-8")
2. L# INDICATES LINTEL IN MASONRY WALL. SEE S-102 FOR SCHEDULE AND GENERAL NOTES FOR LINTELS IN NON STRUCTURAL WALLS.

KEYNOTES: (#)

1. NEW FLOOR INFILL: 3" NORMAL WEIGHT CONC SLAB ON 2" (18 GA, 50 KSI) COMPOSITE DECK, 5" NOMINAL THICKNESS, WITH 6x6 W2.1xw2.1 WWR.
2. SEE DEMO PLANS FOR EXTEND OF NEW OPENINGS IN EXISTING WALL. SHORE EXISTING CMU WALL, FLOOR JOIST AND ROOF JOIST BEFORE DEMO OF EXISTING WALL AND UNTIL NEW STEEL BEAM IS INSTALLED. CONTRACTOR OPTION TO PROVIDE FULL MOMENT CAPACITY SPLICE IN BEAM OR INSTALL BEAM THROUGH EXTERIOR POCKET FULL LENGTH. BEAMS ARE TO BE JACKED TIGHT TO UNDERSIDE OF EXISTING CMU/FRAMING TO REMAIN.
3. NEW OPENING TO ALIGN WITH EXISTING OPENING. IF EXISTING LINTEL IS DAMAGED, PROVIDE NEW LINTEL SHOWN ON PLAN.
4. INFILL EXISTING MASONRY WALL. REMOVE EXISTING AS NEEDED. SEE 4/S-402 . WALL INFILL TO BE COMPLETED BEFORE NEW OPENING IS INSTALLED.
5. L3x3x3/16 CONTINUOUS ANGLE ALONG THE FACE OF EXISTING WALL WITH 1/4"KWIK CONC SCREWS AT 12" OC INTO EXISTING CMU WALL AND INTO THE BOTTOM FLANGE OF EXISTING DECK.



1 SECOND FLOOR FRAMING PLAN - MODULE C

1/8" = 1'-0"

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SECOND FLOOR FRAMING PLAN - MODULE C

S-102C

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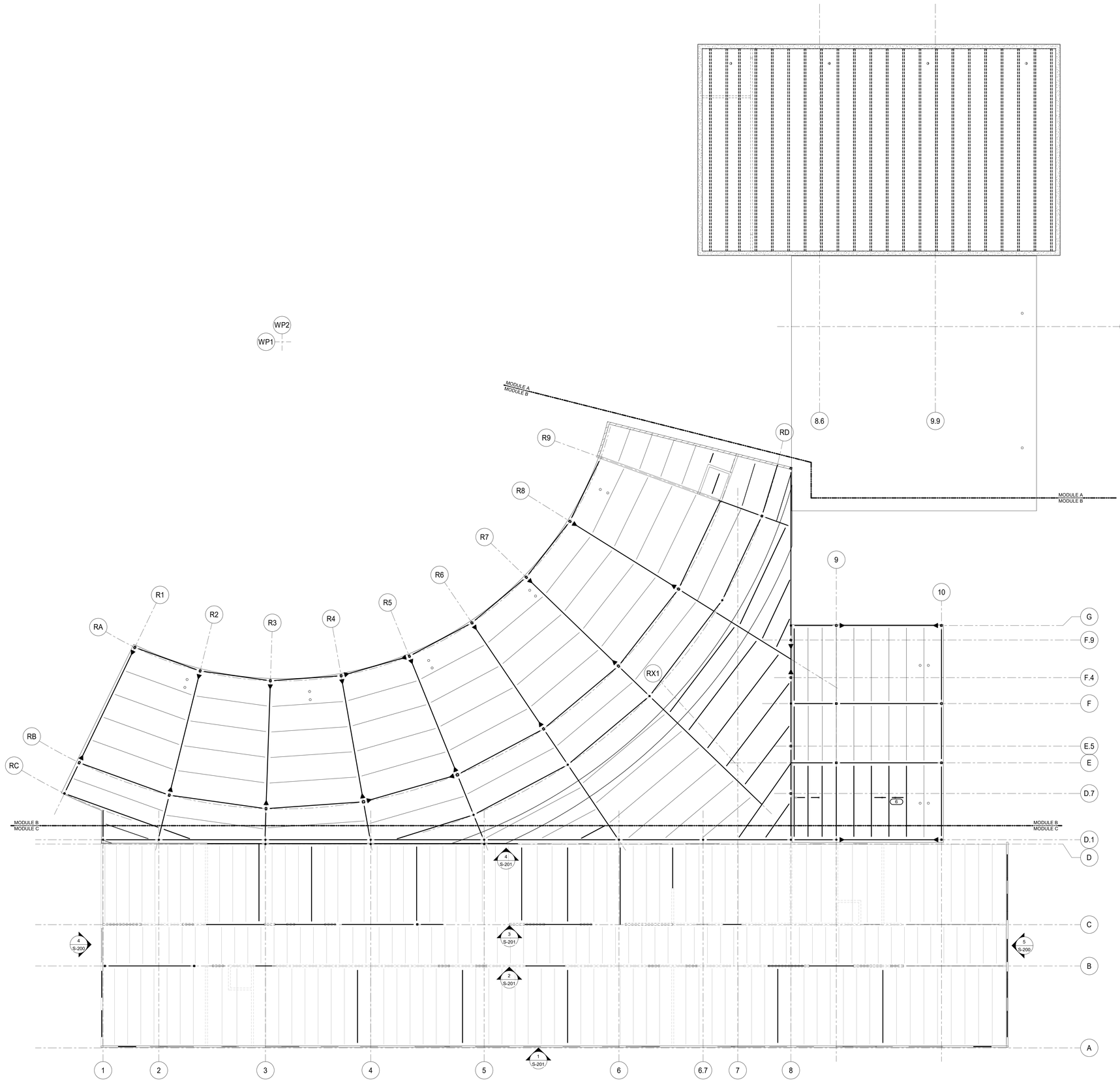

1 OVERALL ROOF FRAMING PLAN

3/32" = 1'-0"

NORTH

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OVERALL ROOF FRAMING PLAN

S-103

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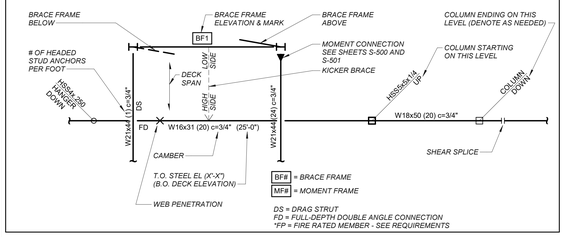
STEEL PLAN SYMBOLS KEY

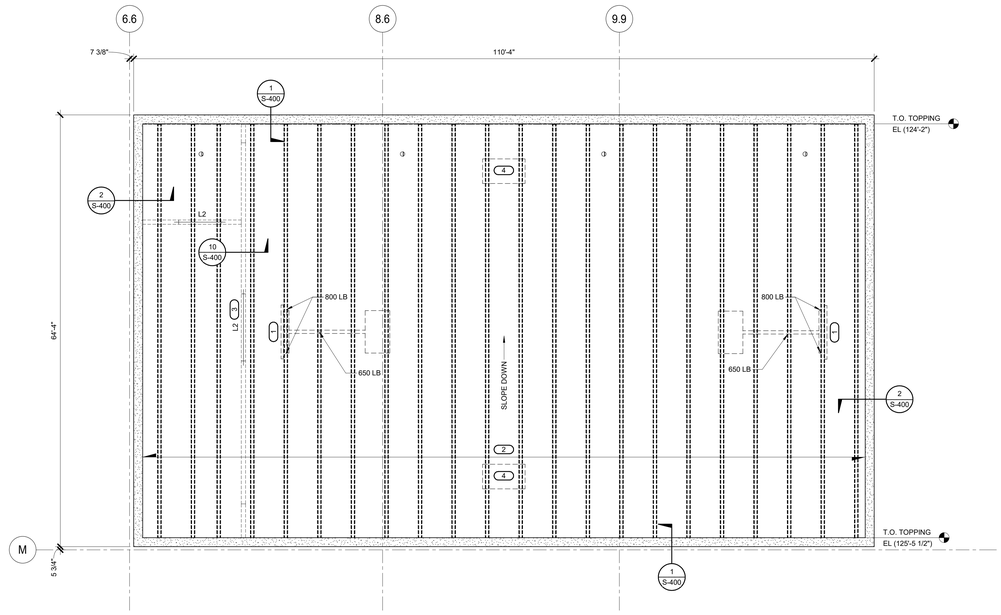


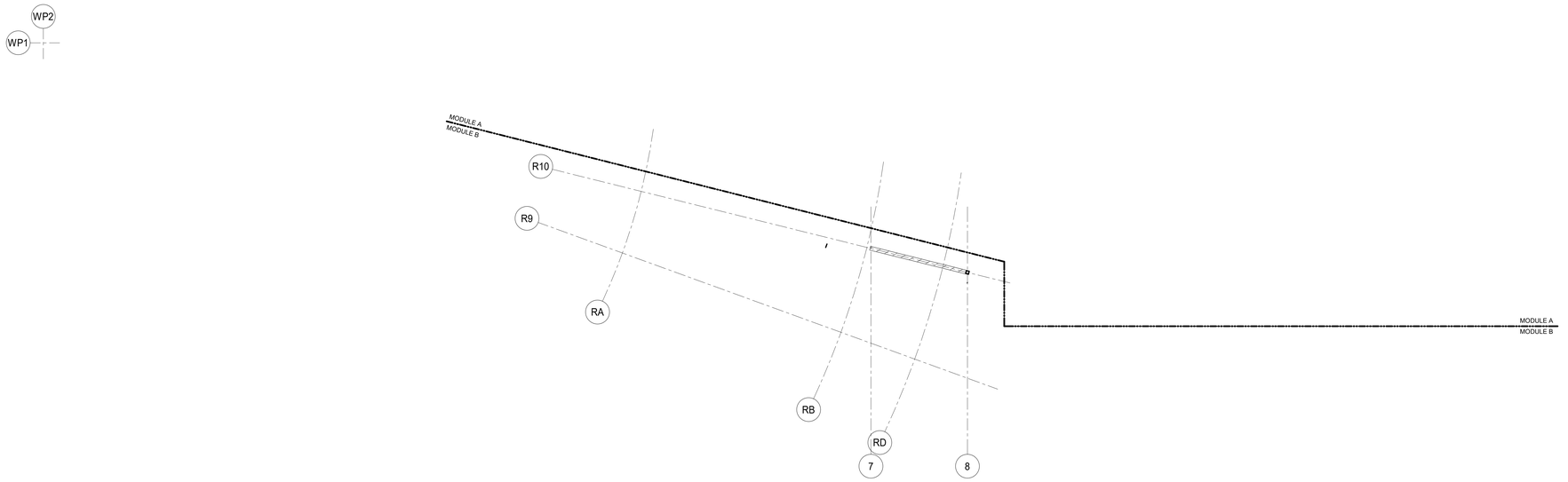
NOTES:

1. SEE PLAN FOR PRECAST TOPPING ELEVATIONS.
2. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
3. SEE S-400 FOR TYPICAL PRECAST CONSTRUCTION DETAILS.
4. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
5. OPENINGS THROUGH STORM SHELTER WALLS REQUIRE PROTECTION. SEE DETAIL 6 AND 7/S-400 FOR DETAILS.
6. SEE DETAIL 8/S-400 FOR PANEL JOINT PROTECTION DETAIL.
7. OPENINGS AND PENETRATIONS THROUGH STORM SHELTER ROOF REQUIRE PROTECTION. SEE DETAIL 5/S-400.
8. SEE 11/S-400 FOR HANGING LOADS FROM PRECAST DOUBLE TEES.

KEYNOTES: #

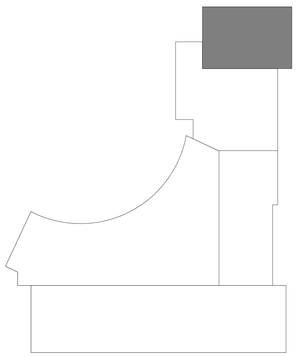
1. BASKETBALL HOOP. GC VERIFY LOADING WITH FINAL EQUIPMENT PURCHASED.
2. 12'-0" WIDE x 3'-2" DEEP PRECAST DOUBLE TEES WITH 4" COMPOSITE CONCRETE TOPPING WITH 6x6 - W2.1xW2.1 WWR. PRECASTER TO DESIGN FOR:
   1.0 SDL = 41 PSF (NOT INCLUDING TOPPING)
   1.0 LL = 100 PSF (NON REDUCIBLE).
   ICC-500 WIND LOADS - SEE S-000 AND S-004.
3. OPENING IN CMU WALL FOR FUTURE EQUIPMENT ACCESS. PROVIDE LINTEL AND INFILL WITH CFSF. SEE ARCH FOR MORE INFORMATION.
4. PROJECTOR, SEE 11/S-400 FOR HANGING REQUIREMENTS.





1 HIGH ROOF FRAMING PLAN - MODULE A

1/8" = 1'-0"



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HIGH ROOF FRAMING PLAN - MODULE A

S-103A

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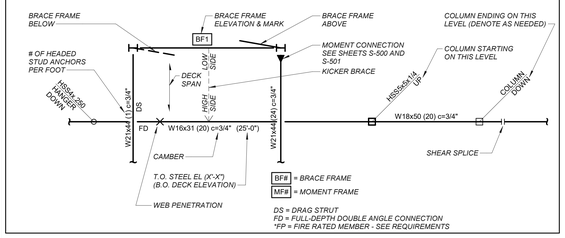
STEEL PLAN SYMBOLS KEY

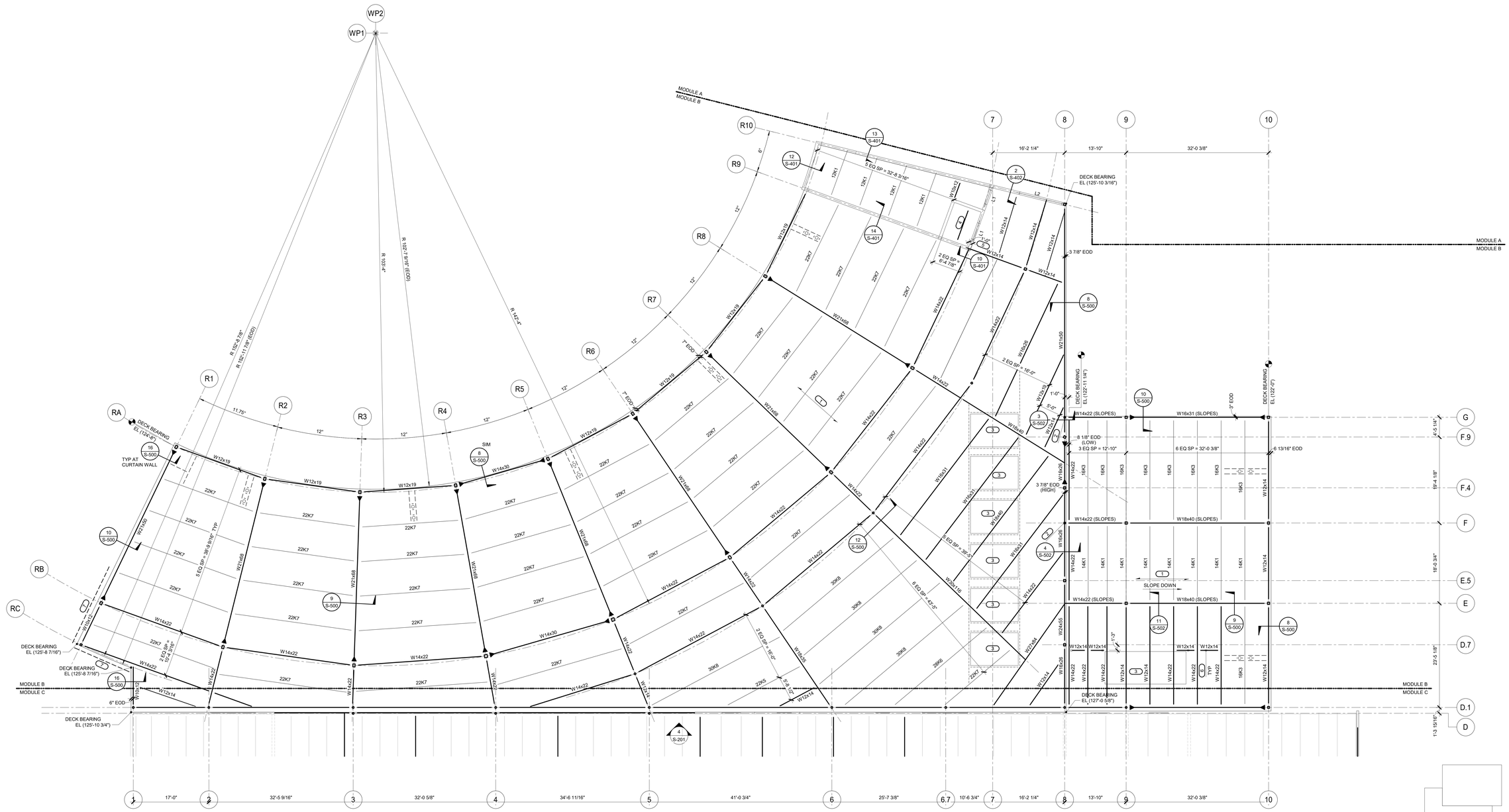


NOTES:

1. SEE PLAN FOR DECK BEARING ELEVATIONS.
2. SEE S-500 AND S-501 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
3. PROVIDE FRAMING AROUND ROOF OPENINGS PER 7/S-500.
4. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL. SEE S-102 FOR SCHEDULE AND GENERAL NOTES FOR NON-STRUCTURAL WALLS.
5. BRACE NON-STRUCTURAL CMU PARTITIONS PER 6/S-401.
6. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
7. SEE S-401 FOR TYPICAL MASONRY CONSTRUCTION DETAILS.
8. SEE 14/S-500 FOR JOIST REINFORCING WHERE CONCENTRATED LOADS ARE APPLIED TO JOISTS.
9. SEE 3/S-501 FOR DECK FASTENING DETAIL.
10. SEE 8/S-502 FOR SKEWED CONNECTION DETAIL.
11. EXISTING CHILLER PLATFORM AND CHILLER TO BE DISASSEMBLED AND SALVAGED. STORE EQUIPMENT AND PIECE. REINSTALL CHILLER PLATFORM ABOVE NEW MECHANICAL PENTHOUSE.

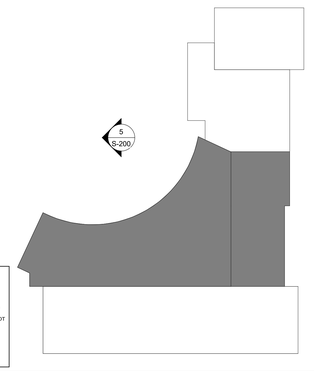
KEYNOTES: (#)

1. 1 1/2" (18 GA) TYPE B ROOF DECK. FASTEN WITH 5/8" PUDDLE WELDS IN 36/4 PATTERN AND #10 SIDELAP SCREWS, MIN (2) SIDELAP SCREWS PER SPAN. SEE PLAN FOR DECK BEARING ELEVATIONS.
2. HSS4x4x1/4 HANGER COLUMN. SEE 3/S-502 FOR DETAIL.
3. RTU. SEE S-003 FOR WEIGHT. PROVIDE L6x6x3/8 AT PERIMETER OF RTU FOR CURB SUPPORT.
4. W8x24 HOIST BEAM AT ELEVATOR. COORDINATE ELEVATION WITH SUPPLIER. SEE 3/S-402 FOR CONNECTION TO CMU WALL.
5. W12x14 TO HAVE 1'-0" BEAM BEARING AT CMU WALL. W14x22 TO CONNECT TO W12x14 WITH TYPICAL SHEAR CONNECTION.
6. (E) HSS 4x4x1/4 FOR CHILLER SUPPORT TO BE REUSED.
7. SUSPENDED LINTEL. SEE 14/S-501.



1 HIGH ROOF FRAMING PLAN - MODULE B

1/8" = 1'-0"



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LINCOLN - IRVING ADDITION AND RENOVATION

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NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.20.2025
DRAWN BY	ARUMON
REVIEWED BY	Checker

HIGH ROOF FRAMING PLAN - MODULE B

S-103B

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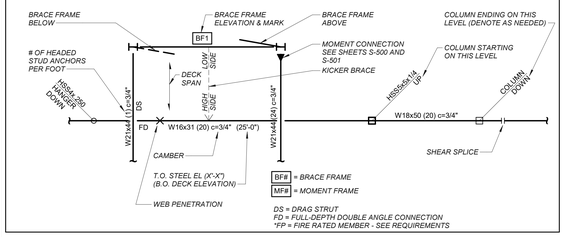
PROJECT #24000855.00

STEEL PLAN SYMBOLS KEY

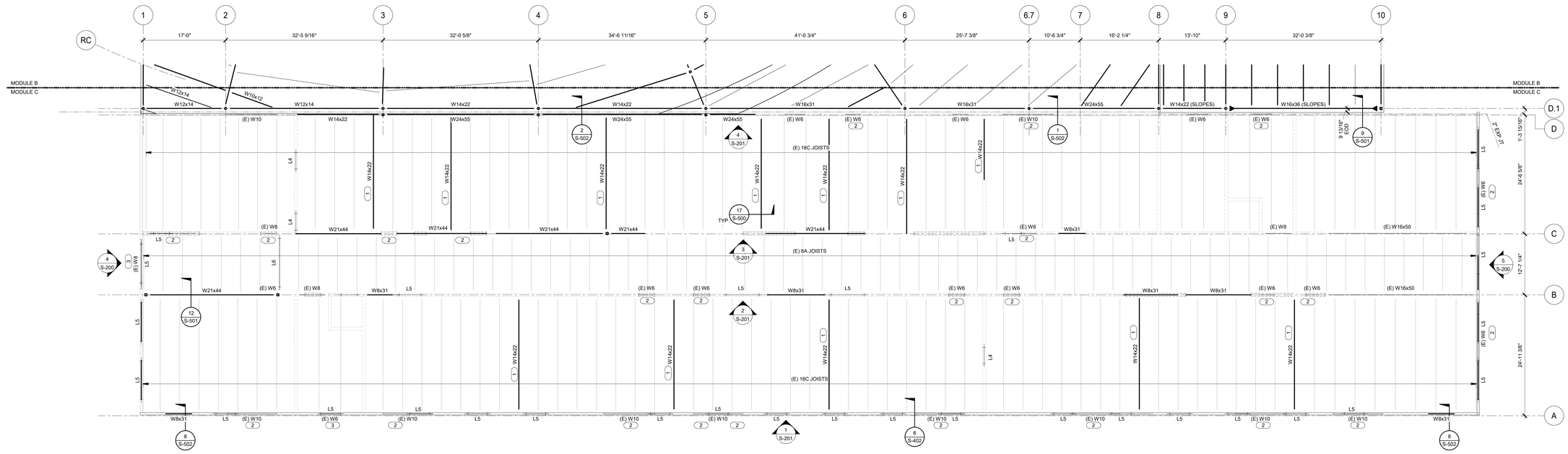


NOTES:

1. SEE GENERAL NOTES AND TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. TOP OF (E) ROOF EL = (12'-6").
4. SEE 2/S-501 FOR JOIST REINFORCING WHERE CONCENTRATED LOADS ARE APPLIED TO JOIST.

KEYNOTES: (#)

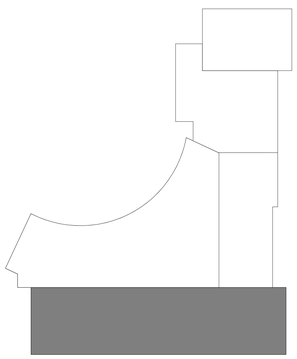
1. SEE DEMO PLANS FOR EXTENT OF NEW OPENINGS IN EXISTING WALL. SHORE EXISTING CMU WALL, FLOOR JOIST AND ROOF JOIST BEFORE DEMO OF EXISTING WALL AND UNTIL NEW STEEL AND FOUNDATIONS ARE INSTALLED.
2. INFILL EXISTING MASONRY WALL. REMOVE EXISTING AS NEEDED. SEE 4/S-402 .
3. NEW OPENING TO ALIGN WITH EXISTING OPENING. IF EXISTING LINTEL IS DAMAGED, PROVIDE NEW LINTEL SHOWN ON PLAN.



NORTH

1 ROOF FRAMING PLAN - MODULE C

1/8" = 1'-0"



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ROOF FRAMING PLAN - MODULE C

S-103C

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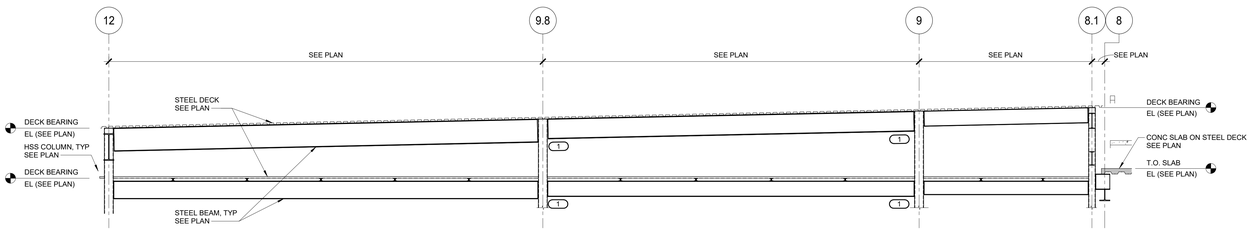
0 1 2 3

REF. SCALE IN INCHES

PROJECT #240006955.00

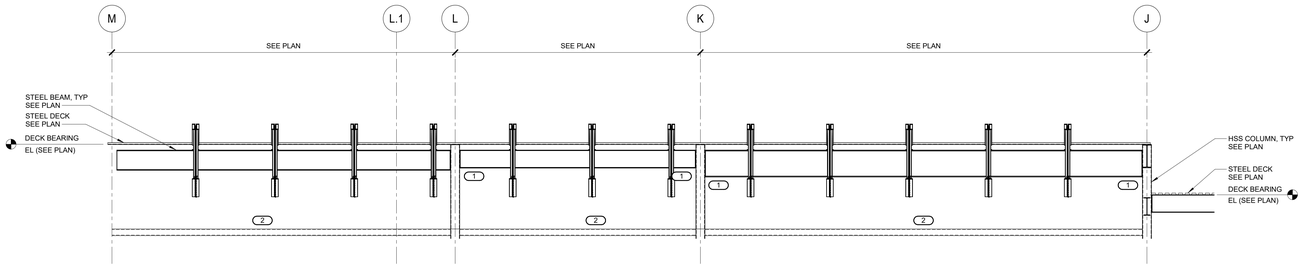
KEYNOTES: (#)

1. PROVIDE BEAM TO COLUMN MOMENT CONNECTION. SEE 15/S-500.
2. HSS8x6x3/8 AT OPENING BETWEEN HSS COLUMNS. SEE ARCH DRAWINGS FOR OPENING ELEVATION. SEE 13/S-501.



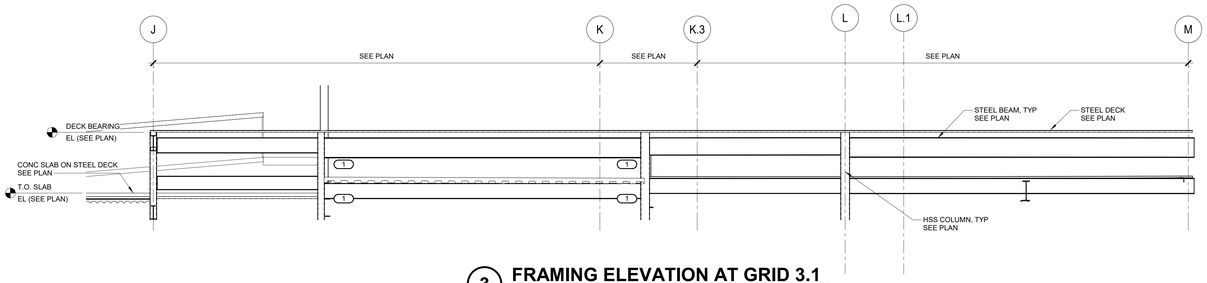
1 FRAMING ELEVATION AT GRID F

1/4" = 1'-0"



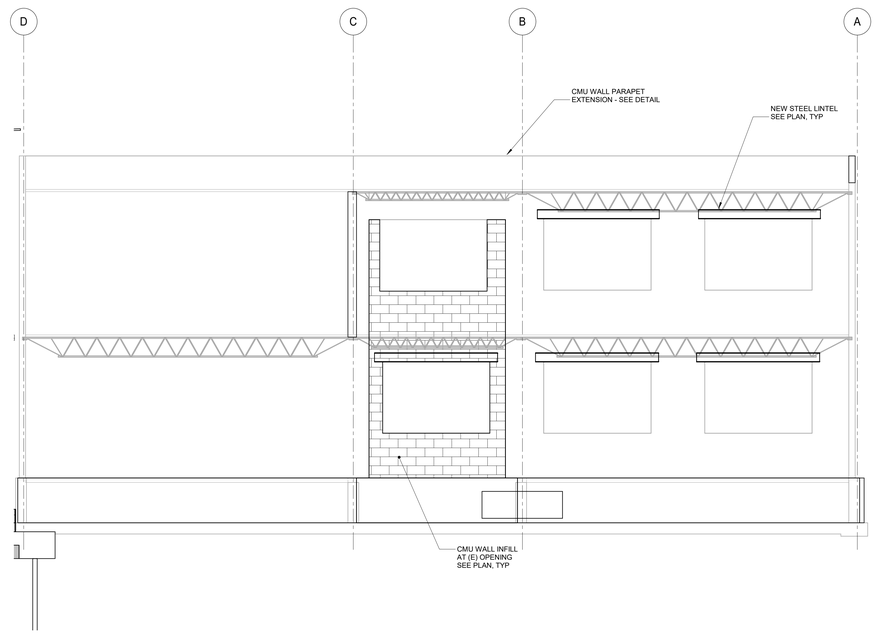
2 FRAMING ELEVATION AT GRID 7

1/4" = 1'-0"



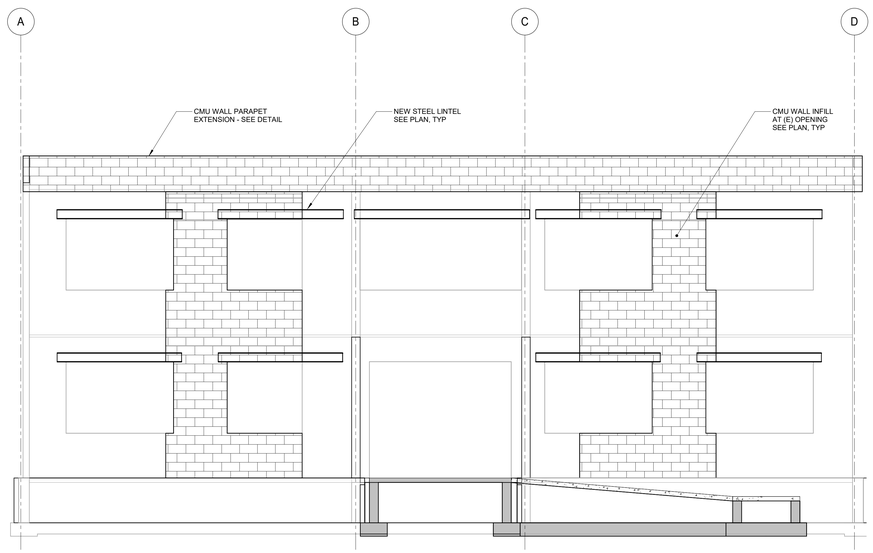
3 FRAMING ELEVATION AT GRID 3.1

1/4" = 1'-0"



4 WEST EXISTING WALL

1/4" = 1'-0"



5 EAST EXISTING WALL

1/4" = 1'-0"

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FRAMING & EXISTING BUILDING ELEVATIONS

S-200

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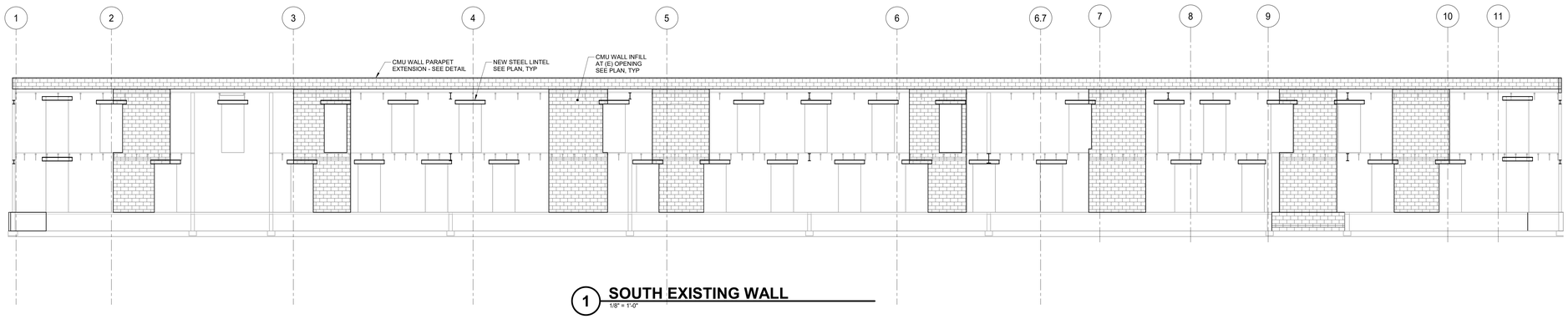
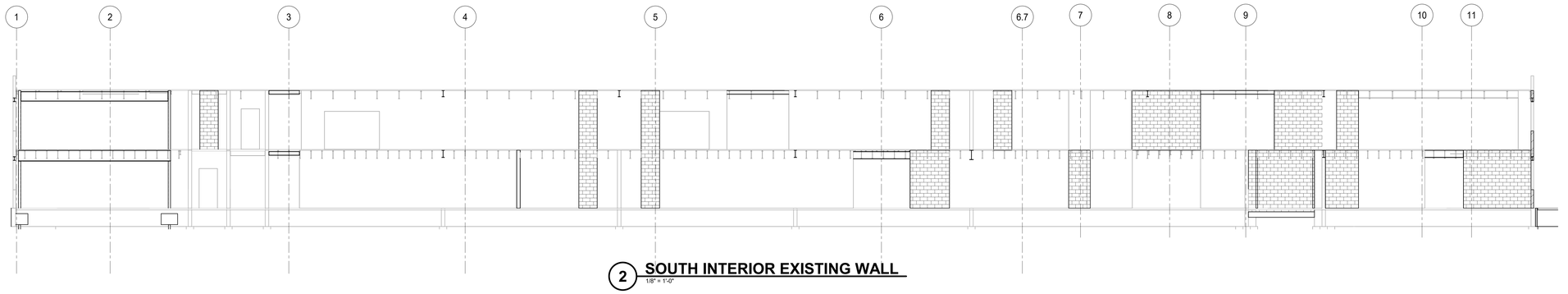


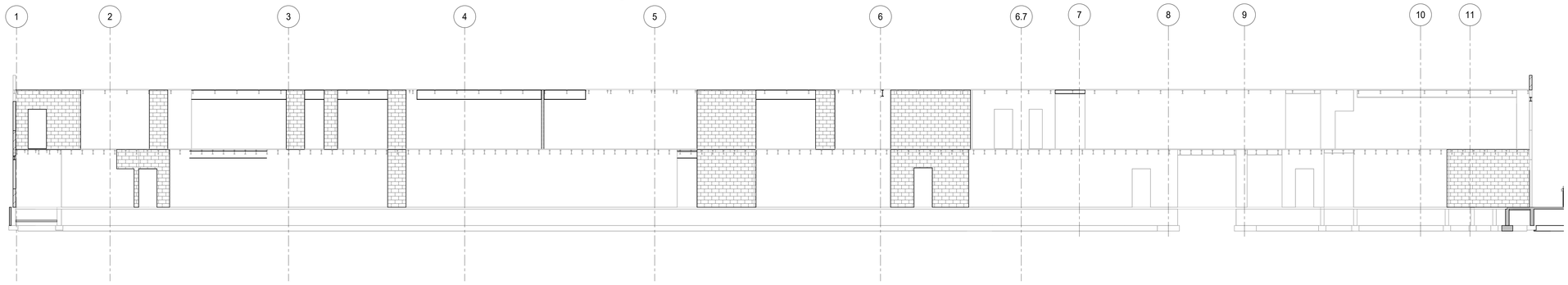
1 SOUTH EXISTING WALL

1/8" = 1'-0"



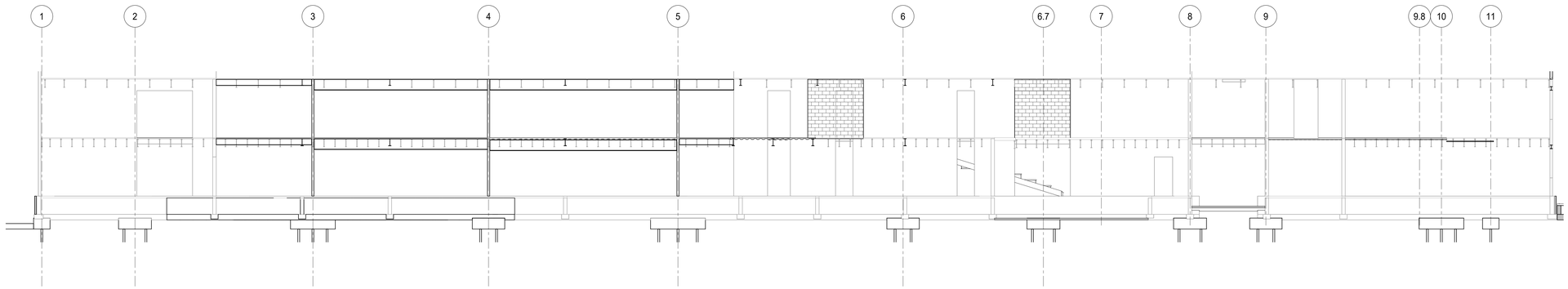
2 SOUTH INTERIOR EXISTING WALL

1/8" = 1'-0"



3 NORTH INTERIOR EXISTING WALL

1/8" = 1'-0"



4 NORTH EXISTING WALL

1/8" = 1'-0"

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EXISTING BUILDING ELEVATIONS

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REF. SCALE IN INCHES 0 1 2 3

PROJECT #24006955.00

CLASS B TENSION LAP SPLICE LENGTH

REINF STEEL, Fy	BAR SIZE	BAR LOCATION	CONCRETE STRENGTH, f'c							
			3 KSI	4 KSI	5 KSI	6 KSI	7 KSI	8 KSI	9 KSI	10 KSI
60 KSI	#3	TOP	2'-4"	2'-1"	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"
		OTHER	1'-10"	1'-7"	1'-5"	1'-4"	1'-2"	1'-2"	1'-1"	1'-0"
	#4	TOP	3'-2"	2'-9"	2'-5"	2'-3"	2'-1"	1'-11"	1'-10"	1'-9"
		OTHER	2'-5"	2'-1"	1'-11"	1'-9"	1'-7"	1'-6"	1'-5"	1'-4"
	#5	TOP	3'-11"	3'-5"	3'-0"	2'-9"	2'-7"	2'-5"	2'-3"	2'-2"
		OTHER	3'-0"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-9"	1'-8"
	#6	TOP	4'-8"	4'-1"	3'-8"	3'-4"	3'-1"	2'-11"	2'-9"	2'-7"
		OTHER	3'-7"	3'-1"	2'-10"	2'-7"	2'-4"	2'-3"	2'-1"	2'-0"
	#7	TOP	6'-9"	5'-11"	5'-3"	4'-10"	4'-6"	4'-2"	3'-11"	3'-9"
		OTHER	5'-3"	4'-6"	4'-1"	3'-9"	3'-5"	3'-3"	3'-0"	2'-11"
	#8	TOP	7'-9"	6'-9"	6'-0"	5'-6"	5'-1"	4'-9"	4'-6"	4'-3"
		OTHER	6'-0"	5'-2"	4'-8"	4'-3"	3'-11"	3'-8"	3'-6"	3'-3"
	#9	TOP	8'-9"	7'-7"	6'-9"	6'-2"	5'-9"	5'-4"	5'-1"	4'-10"
		OTHER	6'-9"	5'-10"	5'-3"	4'-9"	4'-5"	4'-2"	3'-11"	3'-8"
	#10	TOP	9'-10"	8'-6"	7'-8"	7'-0"	6'-5"	6'-0"	5'-8"	5'-5"
		OTHER	7'-7"	6'-7"	5'-11"	5'-4"	5'-0"	4'-8"	4'-5"	4'-2"
	#11	TOP	10'-11"	9'-6"	8'-6"	7'-9"	7'-2"	6'-8"	6'-4"	6'-0"
		OTHER	8'-5"	7'-3"	6'-6"	5'-11"	5'-6"	5'-2"	4'-10"	4'-7"

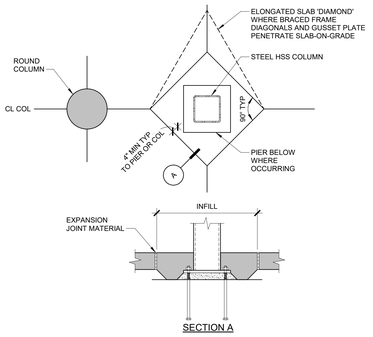
NOTES:

1. SPLICE LENGTHS SHOWN ARE APPLICABLE FOR SPLICES OCCURRING UNDER THE FOLLOWING CONDITIONS.
   A. NORMAL-WEIGHT CONCRETE
   B. MIN BAR SPACING REQUIREMENTS:
      a. CLEAR SPACING BETWEEN BARS AT SPLICE LOCATION > BAR DIAMETER, CLEAR COVER TO BARS ≥ BAR DIAMETER, AND TIES OR STIRRUPS OCCUR PER CODE SPACING WITHIN LENGTH OF SPLICE; OR
      b. CLEAR SPACING BETWEEN BARS AT SPLICE ≥ 2 x BAR DIAMETER AND CLEAR COVER > BAR DIAMETER
2. INDICATED SPLICE LENGTHS SHALL BE INCREASED BY THE LISTED FACTORS WHERE THE FOLLOWING CONDITIONS EXIST.

CONDITION	SPLICE LENGTH MULTIPLIER*
A. BAR SPACING OR CLEAR COVER IS LESS THAN REQUIRED PER NOTE 1	1.5
B. LIGHTWEIGHT CONCRETE	1.3
C. EPOXY COATED REINF WITH COVER < 3 x BAR DIAMETER OR CLEAR SPACING < 6 x BAR DIAMETER	1.5
D. ALL OTHER EPOXY COATED BARS	1.2

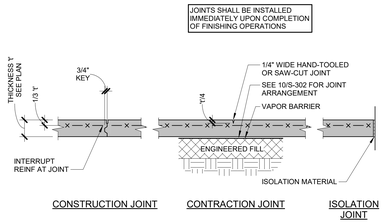
*WHERE MULTIPLE CONDITIONS EXIST, APPLY EACH OF THE APPLICABLE FACTORS TO THE TABULATED TENSION LAP SPLICE LENGTH TO OBTAIN THE REQUIRED SPLICE LENGTH.

3. TOP BARS ARE HORIZ BARS LOCATED WHERE MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BARS.
4. USE SMALLER BAR SIZE TO DETERMINE LENGTH WHERE SPLICING BARS OF DIFFERENT SIZES.



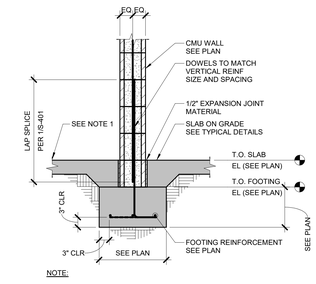
1 SLAB-ON-GRADE JOINTS AT COLUMNS / PIERS / WALLS

3/4" = 1'-0"
2010-03



2 SLAB ON GRADE CONSTRUCTION

3/4" = 1'-0"
2021-01

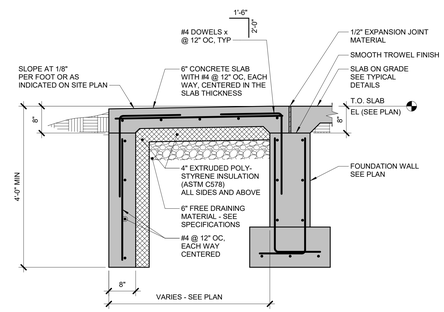


NOTE:

1. AT SIM SEE 14/S-301 FOR NEW SLAB TO EXISTING SLAB CONNECTION.

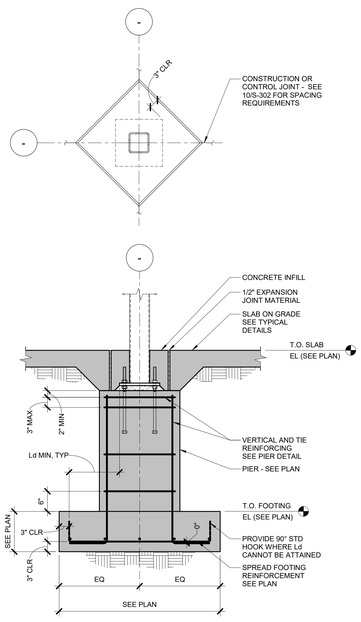
3 INTERIOR CMU WALL FOUNDATION

3/4" = 1'-0"



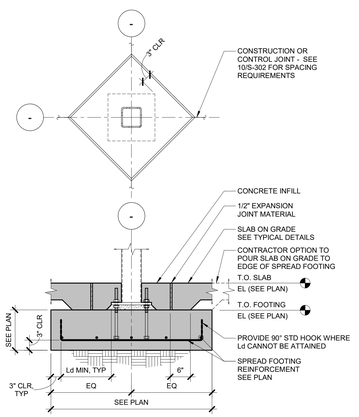
4 TYPICAL STOOP DETAIL

3/4" = 1'-0"



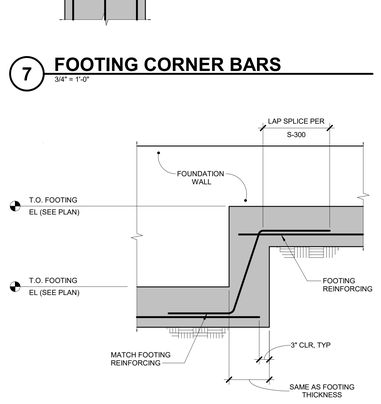
5 COLUMN ON PIER/FOOTING DETAIL

3/4" = 1'-0"



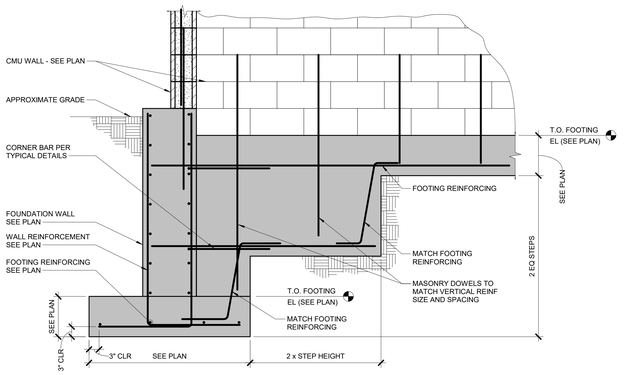
6 COLUMN FOOTING DETAIL

3/4" = 1'-0"



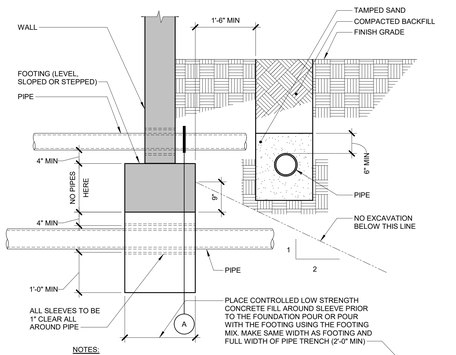
8 TYPICAL STEPPED FOOTING DETAIL

3/4" = 1'-0"



9 TYPICAL STEPPED FOOTING DETAIL

3/4" = 1'-0"

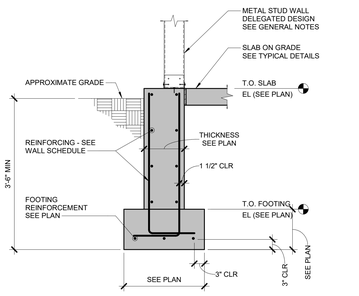


NOTES:

1. PIPE DIAMETER SHALL NOT EXCEED 8".
2. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS, ELEVATIONS, ETC. OF SITE UTILITIES.
3. DETAIL REQUIRED AT ALL UTILITIES HAVING A PLAN WIDTH UP TO 1'-0". FOR WIDTHS GREATER THAN 1'-0", SEE PLAN FOR REQUIRED DETAIL.
4. PIPE IS NOT ALLOWED UNDER SPREAD FOOTINGS.

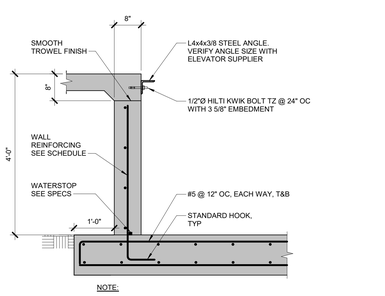
10 TYPICAL PIPE TRENCH DETAIL

3/4" = 1'-0"



11 FOUNDATION AT COLD FORM WALL DETAIL

3/4" = 1'-0"

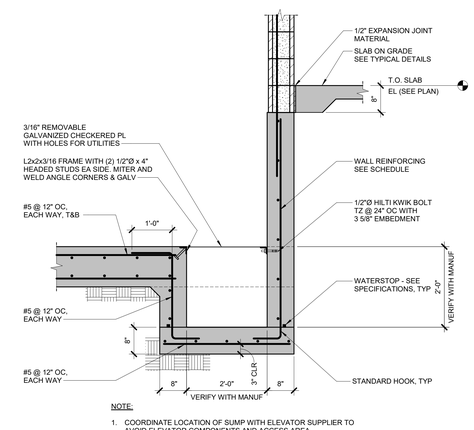


NOTE:

1. SEE ARCHITECTURAL DRAWINGS FOR PIT LADDER.
2. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS FOR PROJECT SPECIFICS ELEVATOR CUT SHEET.

12 ELEVATOR PIT DETAIL

3/4" = 1'-0"

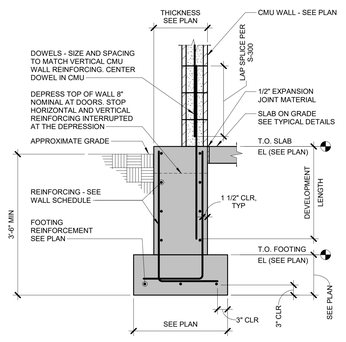


NOTE:

1. COORDINATE LOCATION OF SUMP WITH ELEVATOR SUPPLIER TO AVOID ELEVATOR COMPONENTS AND ACCESS AREA.
2. VERIFY ELEVATOR PIT DEPTH AND DIMENSIONS FOR PROJECT SPECIFICS ELEVATOR CUT SHEET.

13 SUMP PIT DETAIL

3/4" = 1'-0"



14 TYPICAL PERIMETER FROST WALL

3/4" = 1'-0"

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.20.2025
DRAWN BY	ARUMON
REVIEWED BY	Checker

CONCRETE DETAILS

S-300

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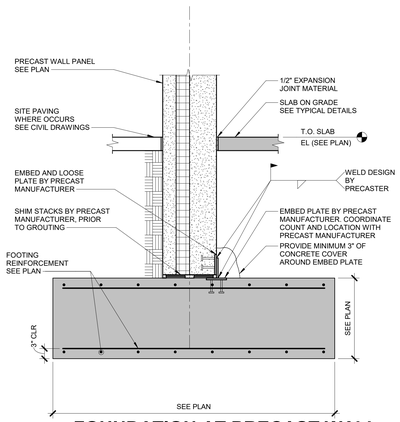
Illinois Design Firm Registration #184.000975-0014

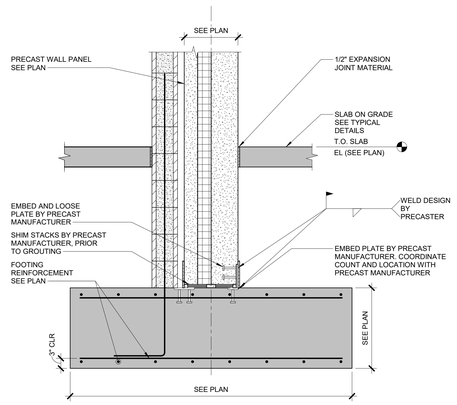
0 1 2 3

REF. SCALE IN INCHES

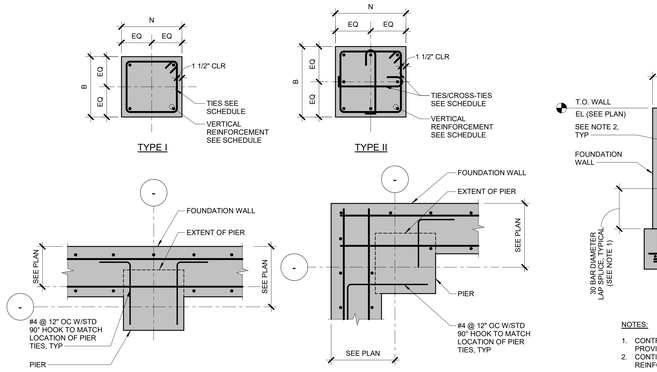
PROJECT #24300955.00



1 FOUNDATION AT PRECAST WALL DETAIL
3/4" = 1'-0"

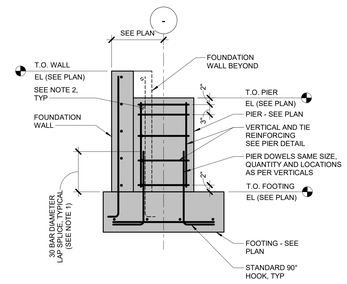


2 TYPICAL FOOTING AT INTERIOR PRECAST WALL PANEL
3/4" = 1'-0"



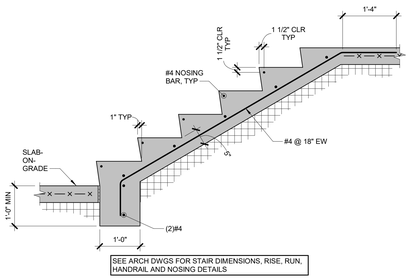
PIER SCHEDULE						
MARK	'B'	'N'	VERTICAL BARS	TIES/CROSS-TIES	DETAIL TYPE	REMARKS
P1	2'-0"	2'-0"	(8) #6	#4 @ 12" OC	TYPE II	-
P2	1'-8"	1'-8"	(6) #6	#4 @ 12" OC	TYPE II	-

3 PIER DETAILS
3/4" = 1'-0"

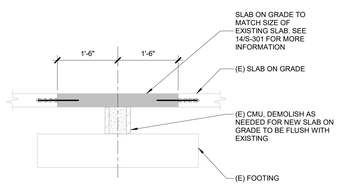


NOTES:
1. CONTRACTOR OPTION TO ELIMINATE SPLICE AND PROVIDE CONTINUOUS VERTICALS FOR SHORT PIERS.
2. CONTINUE FOUNDATION WALL HORIZONTAL REINFORCEMENT THROUGH PIER.

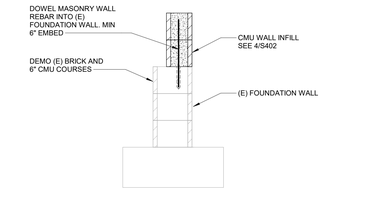
TYPICAL PIER DIAGRAM



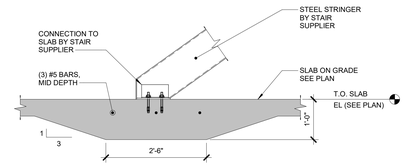
4 SLAB-ON-GRADE STAIR
3/4" = 1'-0"



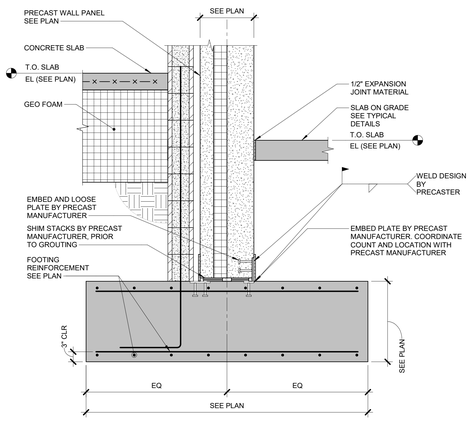
5 (E) FOUNDATION DEMO
3/4" = 1'-0"



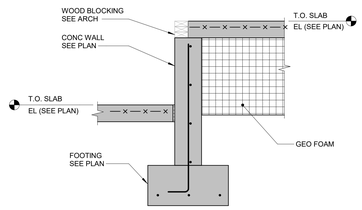
6 WALL INFILL AT FOOTING
3/4" = 1'-0"



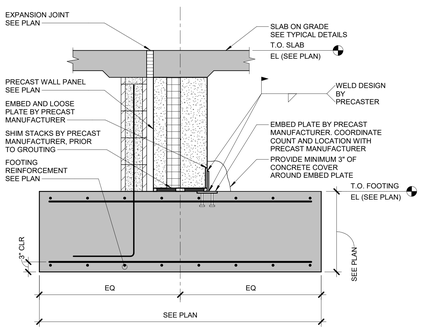
7 THICKENED SLAB AT STAIR STRINGER
3/4" = 1'-0"



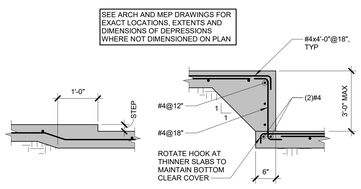
8 FOOTING AT STAGE
3/4" = 1'-0"



9 SLAB AT STAGE
3/4" = 1'-0"

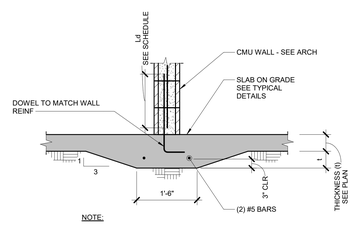


10 FOUNDATION AT DOOR
3/4" = 1'-0"



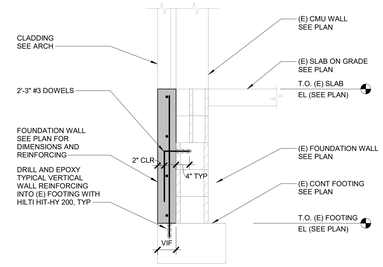
DEPRESSION < SLAB THICKNESS DEPRESSION > SLAB THICKNESS

11 SLAB-ON-GRADE DEPRESSION AND STEP
3/4" = 1'-0"
2020-03



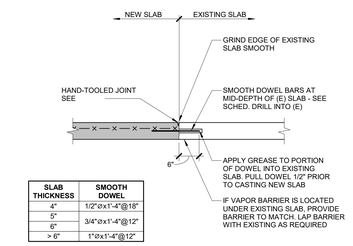
NOTE:
1. TO BE USED AT INTERIOR, NON-STRUCTURAL WALLS BRACED AT TOP OF THE WALL.

12 NON-STRUCTURAL CMU WALL DETAIL
3/4" = 1'-0"



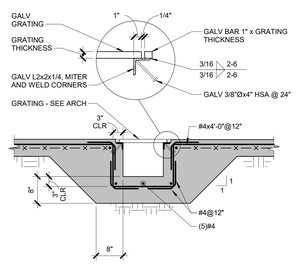
NOTE:
1. GC TO VERIFY FOOTING WIDTH IN FIELD. EXISTING FOOTING SHOULD EXTEND 4" MIN FROM FACE OF EXISTING FOUNDATION WALL FOR SUPPORT OF NEW CONC WALL.

13 BRICK LEDGE AT EXISTING
3/4" = 1'-0"



SLAB THICKNESS	SMOOTH DOWEL
4"	1/2"ø x1'-4"@18"
5"	3/4"ø x1'-4"@12"
6"	1"ø x1'-4"@12"
> 6"	1"ø x1'-4"@12"

14 NEW TO EXISTING SLAB-ON-GRADE CONNECTION
3/4" = 1'-0"
2021-03



15 CIP TRENCH DRAIN
3/4" = 1'-0"
2040-01

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.20.2025
DRAWN BY	ARUMON
REVIEWED BY	Checker

CONCRETE DETAILS

S-301
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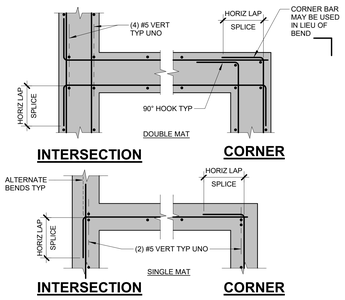
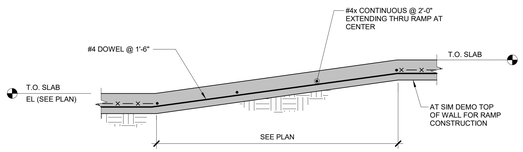
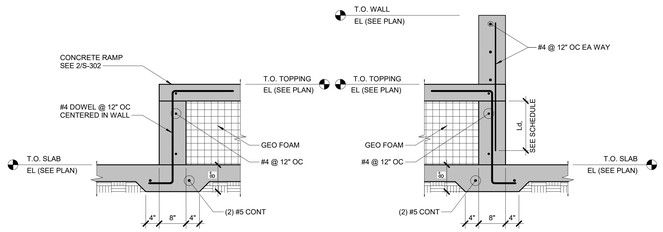
REF. SCALE IN INCHES 0 1 2 3
PROJECT #24005955.00



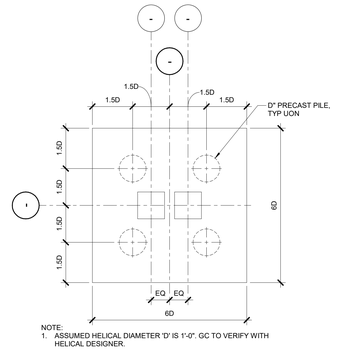
1 REINFORCING AT CONCRETE WALL INTERSECTIONS
3/4" = 1'-0"



2 TYPICAL RAMP AT SOG
3/4" = 1'-0"

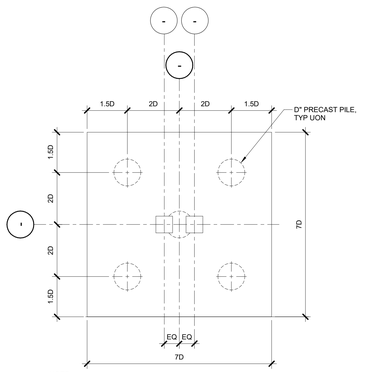


3 RAMP DETAIL
3/4" = 1'-0"



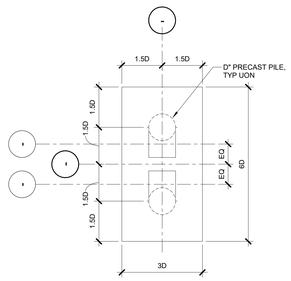
NOTE:
1. ASSUMED HELICAL DIAMETER 'D' IS 1'-0". GC TO VERIFY WITH HELICAL DESIGNER.

4 PILE CAP (PC4) DETAIL
3/8" = 1'-0"



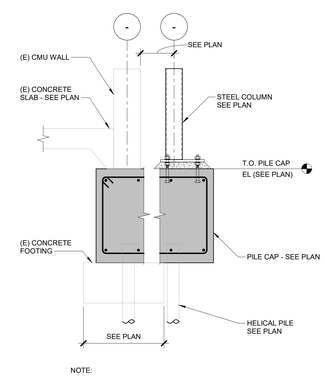
NOTE:
1. ASSUMED HELICAL DIAMETER 'D' IS 1'-0". GC TO VERIFY WITH HELICAL DESIGNER.

5 PILE CAP (PC5) DETAIL
3/8" = 1'-0"



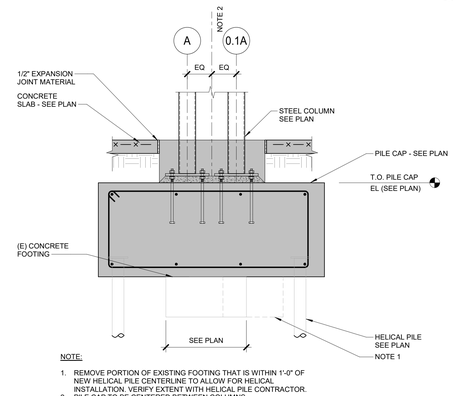
NOTE:
1. ASSUMED HELICAL DIAMETER 'D' IS 1'-0". GC TO VERIFY WITH HELICAL DESIGNER.

6 PILE CAP (PC2) DETAIL
3/8" = 1'-0"



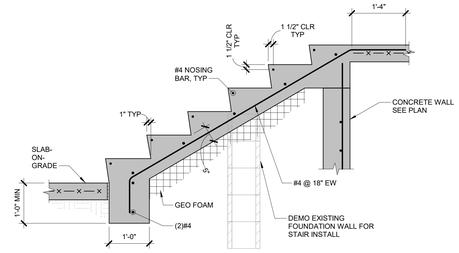
NOTE:
1. REMOVE PORTION OF EXISTING FOOTING THAT IS WITHIN 1'-0" OF NEW HELICAL PILE CENTERLINE TO ALLOW FOR HELICAL INSTALLATION. VERIFY EXTENT WITH HELICAL PILE CONTRACTOR.

7 COLUMN AT EXISTING
3/4" = 1'-0"



NOTE:
1. REMOVE PORTION OF EXISTING FOOTING THAT IS WITHIN 1'-0" OF NEW HELICAL PILE CENTERLINE TO ALLOW FOR HELICAL INSTALLATION. VERIFY EXTENT WITH HELICAL PILE CONTRACTOR.
2. PILE CAP TO BE CENTERED BETWEEN COLUMNS

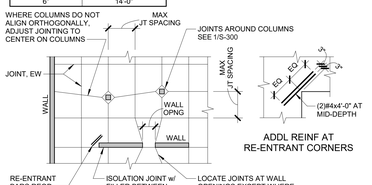
8 NEW COLUMN AT EXISTING BUILDING
3/4" = 1'-0"



SEE ARCH DWGS FOR STAIR DIMENSIONS, RISE, RUN, HANDRAIL AND NOSING DETAILS

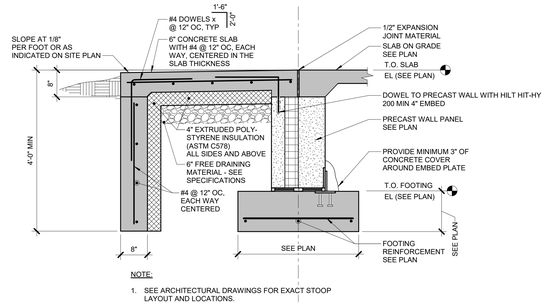
9 STAIR AT EXISTING
3/4" = 1'-0"

SLAB THICKNESS	MAX JOINT SPACING
4"	12'-0"
5"	13'-0"
6"	14'-0"



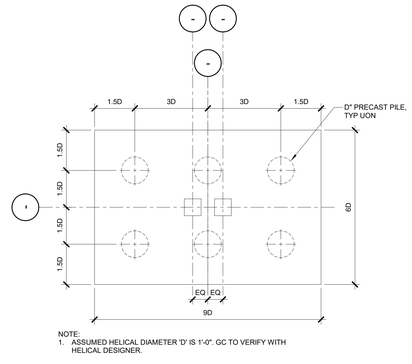
NOTES:
1. LOCATE CONSTRUCTION JOINTS AND CONTRACTION JOINTS ON ALL COLUMN GRID LINES AND SUBDIVIDE AS REQD TO LIMIT MAX SPACING BETWEEN JOINTS PER TABLE.
2. LOCATE JOINTS IN A PATTERN THAT SUBDIVIDES SLAB INTO SQUARE OR RECTANGULAR PANELS HAVING AN ASPECT RATIO BETWEEN 1:0 (PREFERRED) TO 1.5.
3. WHERE SLAB JOINTS ARE NOT PROVIDED AT RE-ENTRANT CORNERS, PROVIDE RE-ENTRANT REINFORCING.

10 SLAB-ON-GRADE JOINT ARRANGEMENT
3/4" = 1'-0"



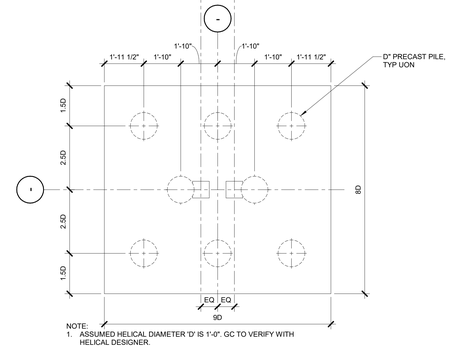
NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR EXACT STOOP LAYOUT AND LOCATIONS.

11 STOOP DETAIL
3/4" = 1'-0"



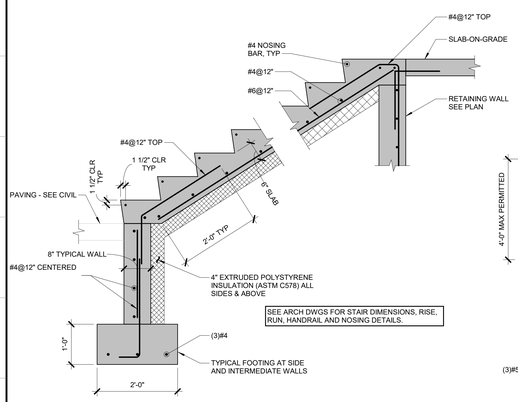
NOTE:
1. ASSUMED HELICAL DIAMETER 'D' IS 1'-0". GC TO VERIFY WITH HELICAL DESIGNER.

12 PILE CAP (PC6) DETAIL
3/8" = 1'-0"

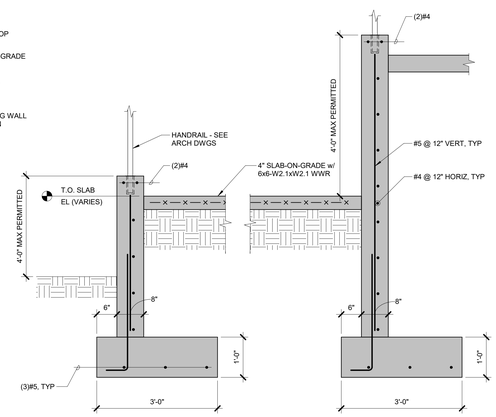


NOTE:
1. ASSUMED HELICAL DIAMETER 'D' IS 1'-0". GC TO VERIFY WITH HELICAL DESIGNER.

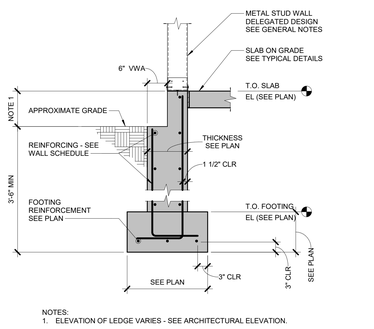
13 PILE CAP (PC8) DETAIL
3/8" = 1'-0"



14 CONCRETE STAIR DETAIL
3/4" = 1'-0"
2920-02

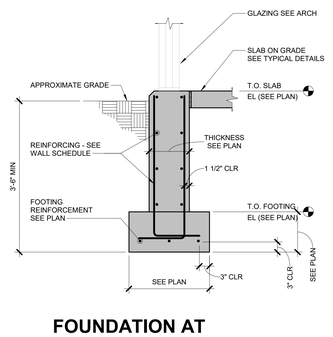


15 CONCRETE RAMP DETAIL
3/4" = 1'-0"
2910-01



NOTES:
1. ELEVATION OF LEDGE VARIES - SEE ARCHITECTURAL ELEVATION.

16 FOUNDATION WALL WITH LEDGE
3/4" = 1'-0"



FOUNDATION AT COLD FORM WALL DETAIL
3/4" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.20.2025
DRAWN BY	Author
REVIEWED BY	Checker

CONCRETE DETAILS

S-302

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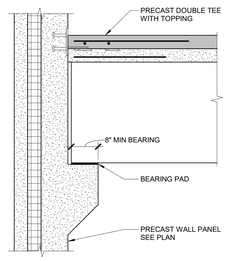
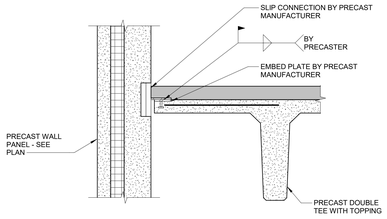


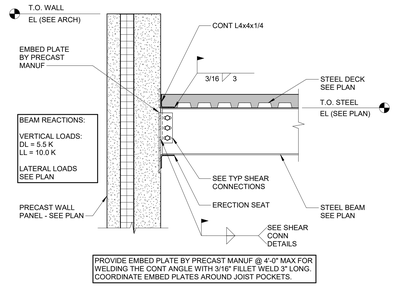
1 DOUBLE TEES BEARING ON PRECAST WALL PANEL

3/4" = 1'-0"
3720-03



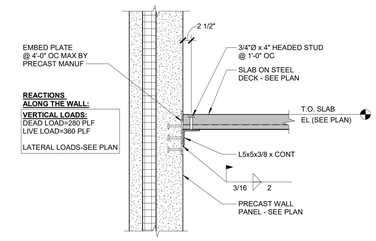
2 DOUBLE TEES PARALLEL TO PRECAST WALL PANEL

3/4" = 1'-0"
3720-11



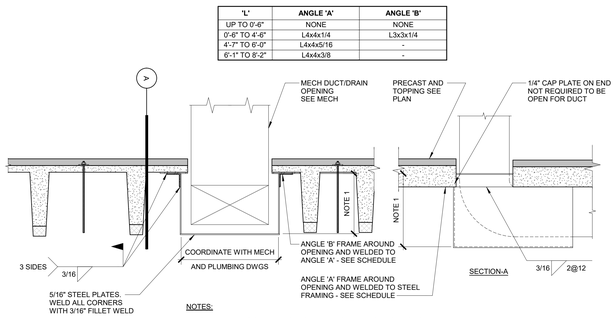
3 BEAM CONNECTION TO PRECAST WALL

3/4" = 1'-0"
3560-08



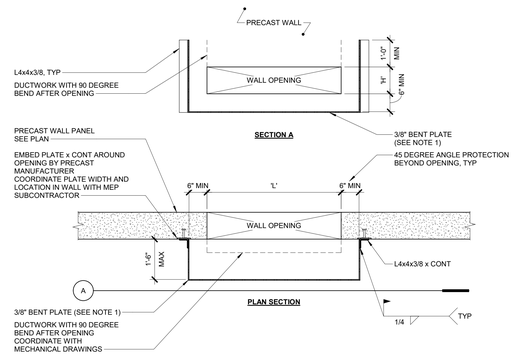
4 FLOOR SLAB BEARING ON PRECAST WALL PANEL

3/4" = 1'-0"



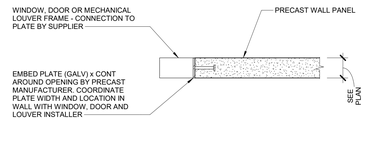
5 SHELTER RATED ROOF OPENING DETAIL

3/4" = 1'-0"



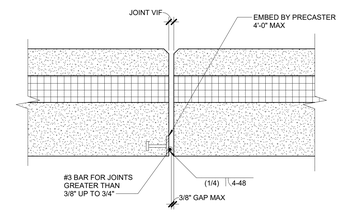
6 SHELTER EXTERIOR DUCT OPENING PROTECTION DETAIL

1/2" = 1'-0"



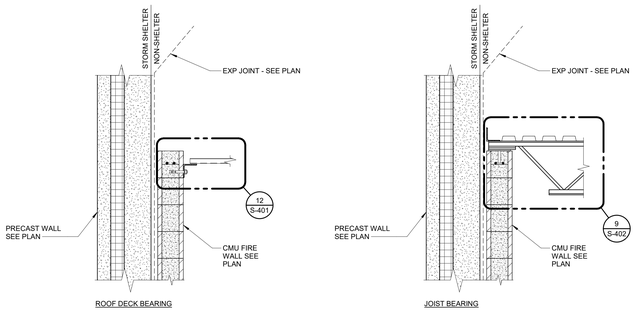
7 SHELTER EXTERIOR DOOR/WINDOW/LOUVER PROTECTION DETAIL

3/4" = 1'-0"



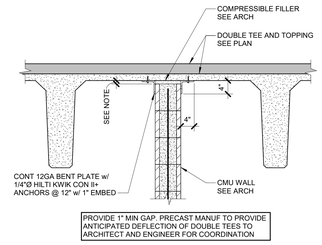
8 WALL PANEL JOINT PROTECTION

1 1/2" = 1'-0"



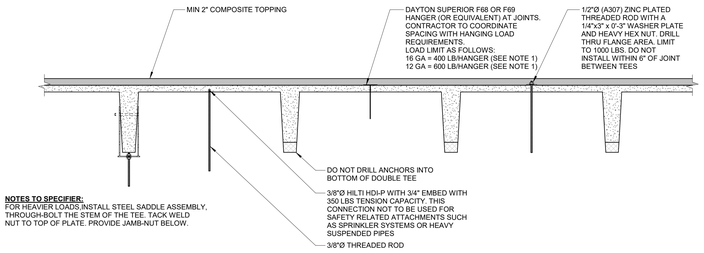
9 FIREWALL ADJACENT TO SHELTER

3/4" = 1'-0"



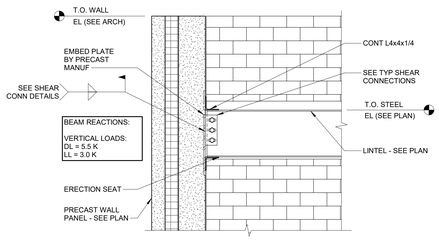
10 NON-STRUCTURAL CMU WALL BRACING TO DOUBLE TEE

3/4" = 1'-0"
4220-11



11 HANGER CONNECTIONS TO DOUBLE TEES

3/4" = 1'-0"



12 BEAM CONNECTION TO PRECAST WALL

3/4" = 1'-0"

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PRECAST DETAILS

S-400

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1 2 3

REF. SCALE IN INCHES

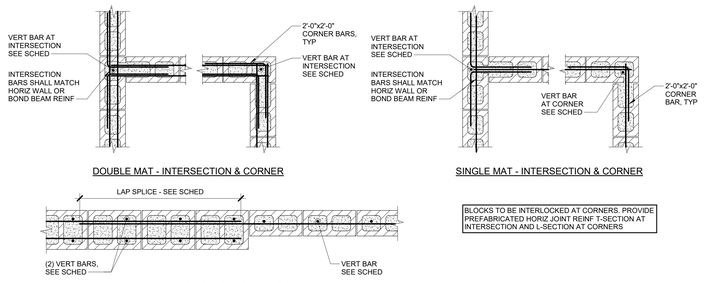
PROJECT #24006600.00

CMU REINFORCING BAR LAP/ DEVELOPMENT LENGTH (L_d) SCHEDULE			f'm=2500 PSI	
CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L_d	REMARKS
6"	SINGLE LAYER, REINF CENTERED IN WALL	#3	12"	
		#4	16"	
		#5	25"	
8"	SINGLE LAYER, REINF CENTERED IN WALL	#4	12"	
		#5	18"	
		#6	34"	
		#7	47"	
10" / 12"	SINGLE LAYER, REINF CENTERED IN WALL	#4	12"	
		#5	14"	
		#6	26"	
		#7	36"	
8" / 10" / 12"	DOUBLE LAYER, REINF W/ 2 1/2" MIN CLR COVER	#4	16"	
		#5	25"	
		#6	46"	
		#7	63"	

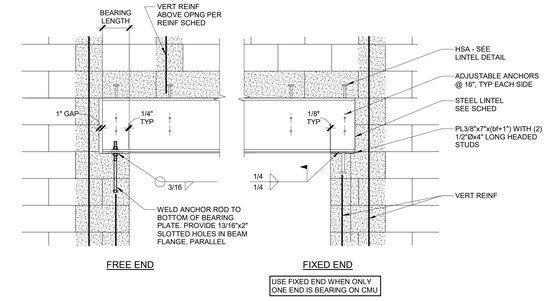
NOTES:

1. PROVIDE LAP SPLICE LENGTHS TO MATCH Ld VALUES PROVIDED IN SCHED OR USE MECHANICAL SPLICES ADEQUATE FOR 125% OF SPECIFIED YIELD STRENGTH OF THE BAR.
2. WHERE TWO DIFFERENT SIZES OF REINF BARS ARE LAPPED, PROVIDE Ld FOR SMALLER REINF BAR.
3. DOWEL EMBED INTO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES.
4. WHEN EPOXY-COATED REINF BARS ARE USED, INCREASE TABULATED VALUES BY A FACTOR OF 1.5.

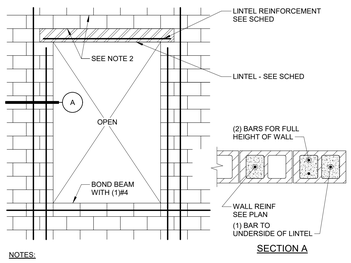
1 f'm=2500 REINFORCING BAR LAP/DEVELOPMENT LENGTH (Ld)
3/4" = 1'-0"
4010-02



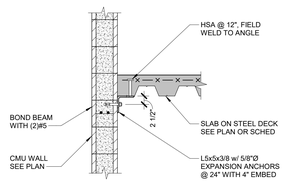
2 CMU WALL INTERSECTIONS
3/4" = 1'-0"
4200-06



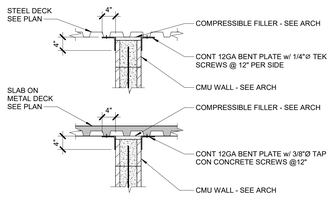
3 WIDE FLANGE LINTEL BEARING
3/4" = 1'-0"
4240-07



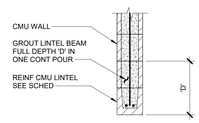
4 JAMB REINFORCEMENT AT LINTEL
3/4" = 1'-0"
4200-08



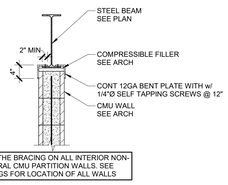
5 FLOOR SLAB ON DECK PARALLEL TO WALL
3/4" = 1'-0"
4300-03



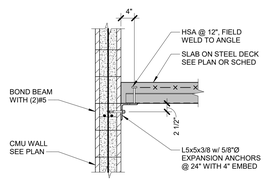
6 NON-STRUCTURAL CMU WALL BRACING TO DECK/SLAB
3/4" = 1'-0"
4220-01



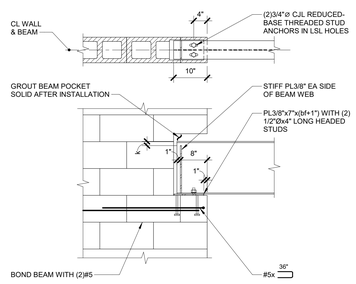
7 REINFORCED CMU LINTEL
3/4" = 1'-0"
4230-03



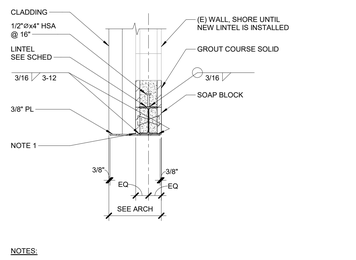
8 NON-STRUCTURAL CMU WALL BRACING TO STEEL
3/4" = 1'-0"
4220-02



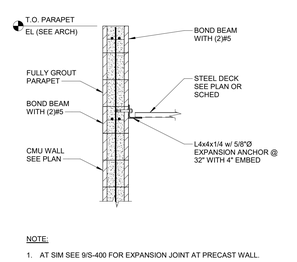
9 SLAB ON DECK BEARING AT CMU WALL
3/4" = 1'-0"
4300-01



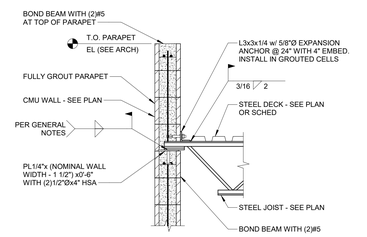
10 BEAM BEARING PARALLEL TO CMU WALL
3/4" = 1'-0"
4300-08



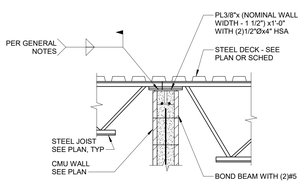
11 WIDE FLANGE LINTEL WITH CLADDING IN EXISTING WALL
3/4" = 1'-0"
4240-02



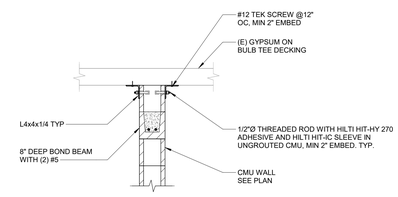
12 ROOF DECK BEARING AT CMU WALL
3/4" = 1'-0"
4500-01



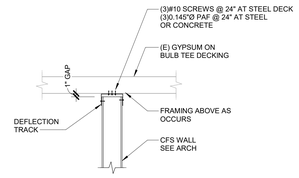
13 ROOF JOIST BEARING ON EXTERIOR CMU WALL
3/4" = 1'-0"
4500-08



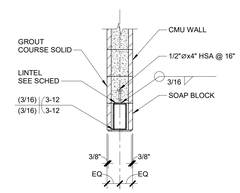
14 ROOF JOIST BEARING ON INTERIOR CMU WALL
3/4" = 1'-0"



15 CMU TO EXISTING DECK
3/4" = 1'-0"
4220-



16 COLD FORM TO EXISTING DECK
3/4" = 1'-0"



17 HSS LINTEL IN CMU WALL
3/4" = 1'-0"

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REVIEWED BY	Checker

MASONRY DETAILS

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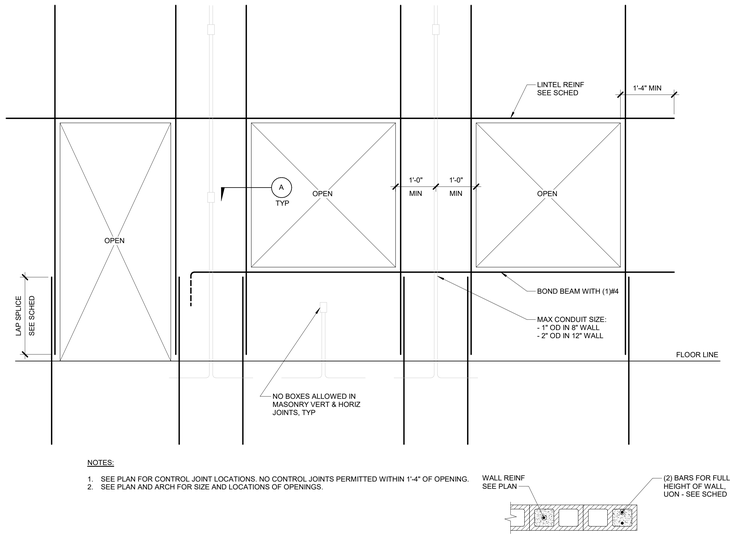
PROJECT #240009955.00



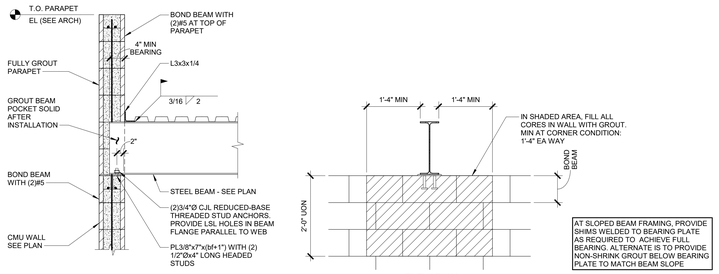
NOTES:

1. SEE PLAN FOR CONTROL JOINT LOCATIONS. NO CONTROL JOINTS PERMITTED WITHIN 1'-4" OF OPENING.
2. SEE PLAN AND ARCH FOR SIZE AND LOCATIONS OF OPENINGS.

SECTION A

1 CMU WALL OPENING REINFORCING AND CONDUIT IN WALL

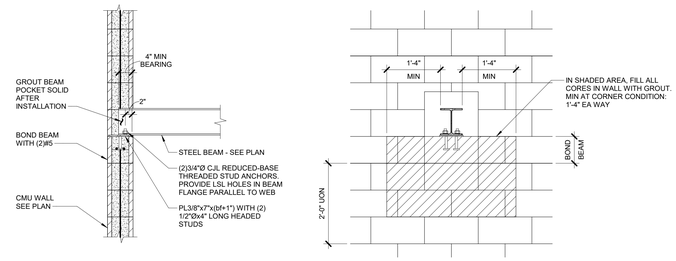
3/4" = 1'-0"



ELEVATION

2 ROOF STEEL BEAM BEARING ON CMU WALL

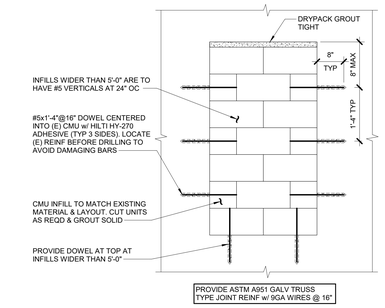
3/4" = 1'-0"



ELEVATION

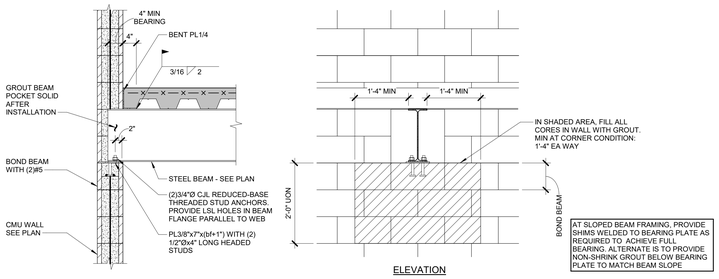
3 HOIST BEAM SUPPORT ON CMU WALL

3/4" = 1'-0"



4 INFILL OF EXISTING CMU WALL OPENING

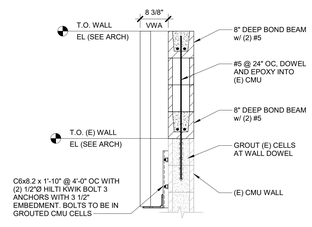
3/4" = 1'-0"



ELEVATION

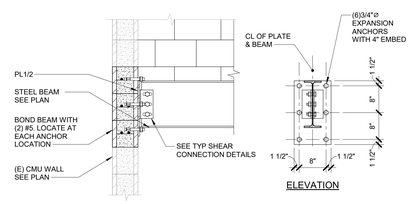
5 FLOOR STEEL BEAM BEARING ON CMU WALL

3/4" = 1'-0"



6 CMU EXTENSION

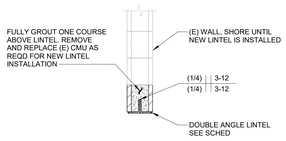
3/4" = 1'-0"
4220-01



ELEVATION

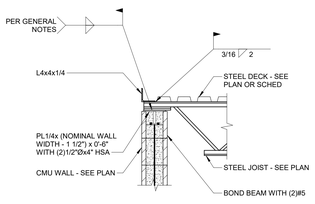
7 WF BEAM AT EXISTING MASONRY WALL

3/4" = 1'-0"



8 DOUBLE ANGLE LINTEL IN EXISTING WALL

3/4" = 1'-0"

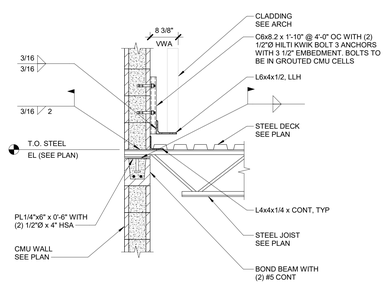


NOTE:

1. AT SIM SEE 9/S-400 FOR EXPANSION JOINT AT PRECAST WALL

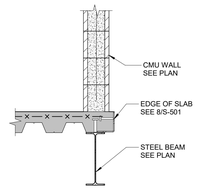
9 ROOF JOIST BEARING ON CMU WALL

3/4" = 1'-0"
4500-10



10 ROOF TRANSITION DETAIL

3/4" = 1'-0"



11 CMU BEARING ON BEAM

3/4" = 1'-0"

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DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.20.2025
DRAWN BY	ARUMON
REVIEWED BY	Checker

MASONRY DETAILS

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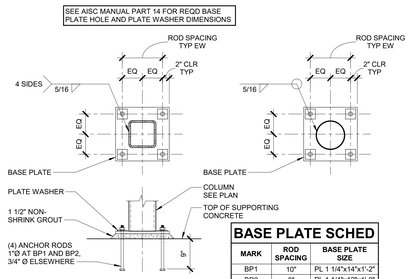


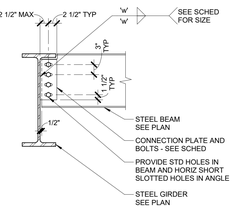
BASE PLATE SCHED		
MARK	ROD SPACING	BASE PLATE SIZE
BP1	10"	PL 1 1/4"x14"x1'-2"
BP2	8"	PL 1 1/4"x12"x1'-0"
BP3	8"	PL 1"x12"x1'-0"
BP4	10"	PL 1"x14"x1'-2"
BP5	8"	PL 1"x12"x1'-0"
BP6	2"	PL 3/4"x6"x0'-6"
BP7	7"	PL 3/4"x10"x0'-10"

1 HSS COLUMN BASE PLATE
3/4" = 1'-0"
5100-05

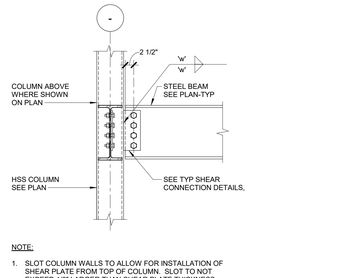
SINGLE PLATE CONNECTION SCHEDULE			
BEAM SIZE	NO. OF BOLTS	CONNECTION WITH 3/4"Ø BOLTS	
		PL THICK	PL WELD
W8, W10	2	1/4"	3/16"
W12, W14	3	1/4"	3/16"
W16	4	5/16"	1/4"
W18	5	5/16"	1/4"
W21	6	5/16"	1/4"
W24, W27	7	3/8"	1/4"
W30	8	3/8"	1/4"

SINGLE PLATE CONNECTION SCHEDULE			
BEAM SIZE	NO. OF BOLTS	CONNECTION WITH 1"Ø BOLTS	
		PL THICK	PL WELD
W8, W10	2	5/16"	1/4"
W12, W14	3	5/16"	1/4"
W16	4	3/8"	1/4"
W18	5	3/8"	1/4"
W21	6	3/8"	1/4"
W24, W27	7	3/8"	1/4"
W30	8	3/8"	1/4"

NOTES:
1. USE 3/4"Ø BOLTS AT ROOF CONNECTIONS AND 1"Ø BOLTS AT FLOOR CONNECTIONS.

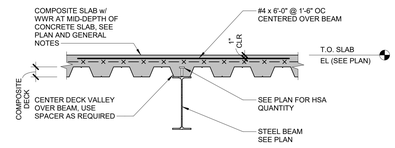


2 SHEAR CONNECTION TO BEAM
3/4" = 1'-0"
5100-02



NOTE:
1. SLOT COLUMN WALLS TO ALLOW FOR INSTALLATION OF SHEAR PLATE FROM TOP OF COLUMN. SLOT TO NOT EXCEED 1/8" LARGER THAN SHEAR PLATE THICKNESS.

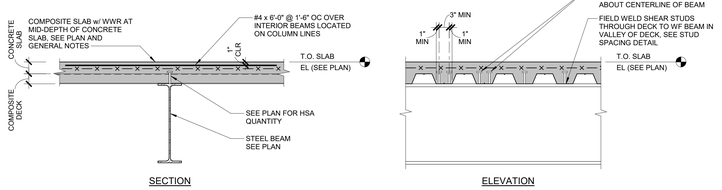
3 WF CONNECTION TO HSS COLUMN
3/4" = 1'-0"
5150-13



BEAM PARALLEL TO DECK FLUTES

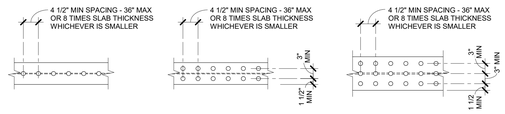
4 COMPOSITE GIRDER CONSTRUCTION
3/4" = 1'-0"
5200-01

NOTE:
1. ONE STUD PER VALLEY SHALL BE PLACED STARTING FROM BOTH ENDS OF BEAM. WHEN STUDS FILL EVERY VALLEY, REMAINING STUDS SHALL BE PLACED IN TWO OR MORE ROWS STARTING FROM EACH END OF BEAM OR GIRDER.

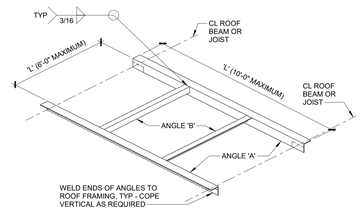


BEAM PERPENDICULAR TO DECK FLUTES

5 COMPOSITE BEAM CONSTRUCTION
3/4" = 1'-0"
5200-02



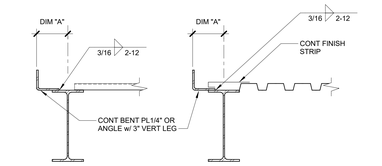
6 COMPOSITE STUD LAYOUT
3/4" = 1'-0"
5200-03



'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

NOTES:
1. SEE ARCH AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

7 ROOF OPENING FRAMING
3/4" = 1'-0"
5331-01

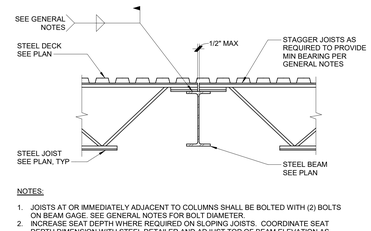


ROOF DECK PERPENDICULAR TO EDGE OF DECK

ROOF DECK PARALLEL TO EDGE OF DECK

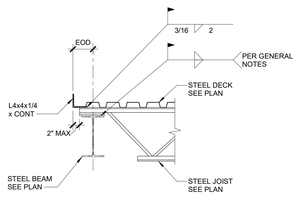
NOTES:
1. THIS DETAIL IS APPLICABLE AT ALL EDGE OF ROOF DECK LOCATIONS, UON.
2. SEE PLANS FOR DIM "A" OR SEE ARCH DWGS WHERE EDGE OF DECK DIMENSION IS NOT INDICATED ON STRUCTURAL DRAWINGS.
3. AT SIM, CUT BENT PLAT TO EOD RADIUS.

8 EDGE OF ROOF DECK
1" = 1'-0"
5331-09

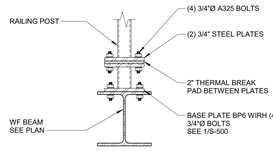


NOTES:
1. JOISTS AT OR IMMEDIATELY ADJACENT TO COLUMNS SHALL BE BOLTED WITH (2) BOLTS ON BEAM GAGE. SEE GENERAL NOTES FOR BOLT DIAMETER.
2. INCREASE SEAT DEPTH WHERE REQUIRED ON SLOPING JOISTS. COORDINATE SEAT DEPTH DIMENSION WITH STEEL DETAILER AND ADJUST TOP OF BEAM ELEVATION AS REQUIRED.

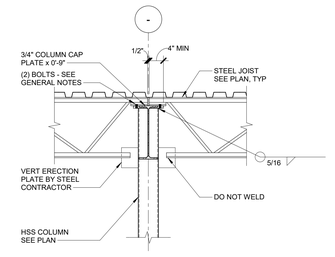
9 ROOF JOIST BEARING AT BEAM
3/4" = 1'-0"
5400-01



10 ROOF JOIST BEARING AT EDGE BEAM
3/4" = 1'-0"
5400-02

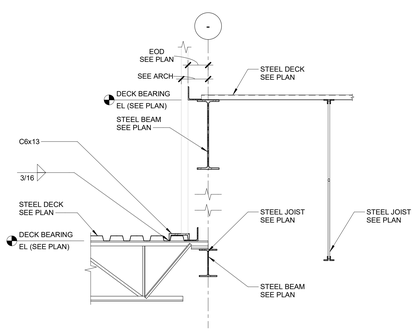


11 POST AT BEAM WITH THERMAL BREAK
1" = 1'-0"

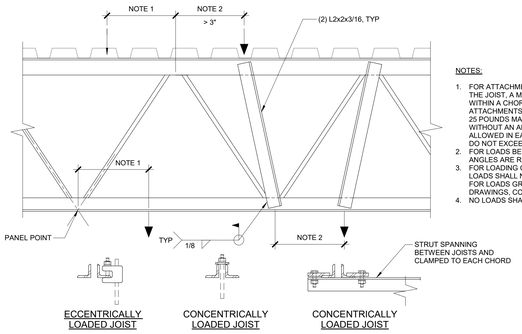


NOTES:
1. ANGLE SEAT ACCOMMODATES K-, LH-, AND DLH 10-17 JOISTS. DOES NOT WORK FOR DLH-18+ SERIES.
2. VERIFY PLATE THICKNESS IN BENDING FOR JOIST END REACTION. ADD STIFFENER PLATE IF NEEDED.

12 BAR JOIST BEARING AT HSS COLUMN
3/4" = 1'-0"
5400-09

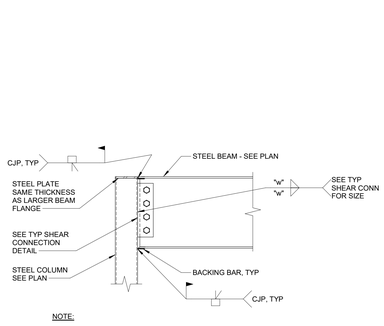


13 JOIST AT ROOF PLAN
3/4" = 1'-0"



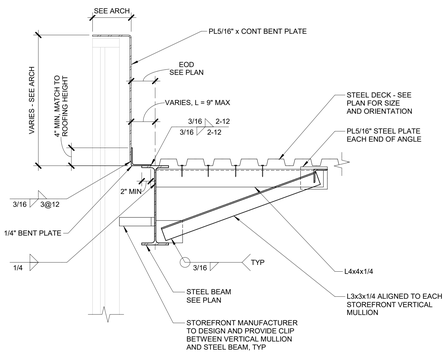
NOTES:
1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

14 CONCENTRATED LOADS ON K-JOIST
1 1/2" = 1'-0"
5400-12

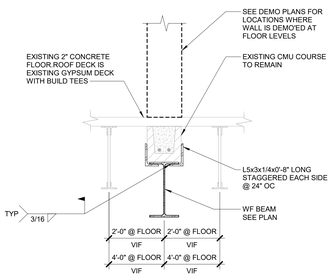


NOTE:
1. INTERSECTING BEAM NOT SHOWN FOR CLARITY.

15 MOMENT CONNECTION AT HSS COLUMN
1" = 1'-0"



16 TYPICAL ROOF DECK EDE DETAIL
1" = 1'-0"



17 WF BEAM AT EXISTING
1" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.20.2025
DRAWN BY	ARUMON
REVIEWED BY	Checker

STEEL DETAILS

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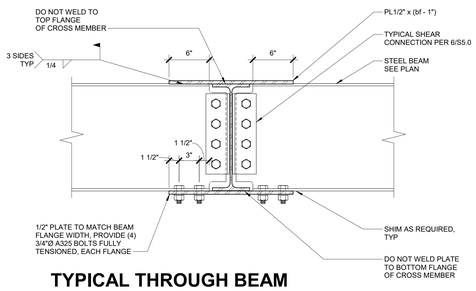
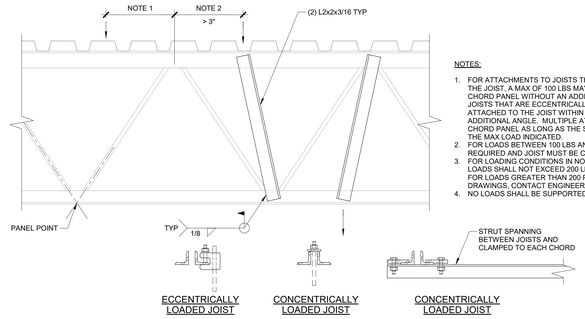


1 TYPICAL THROUGH BEAM MOMENT CONNECTION

1 1/2" = 1'-0"

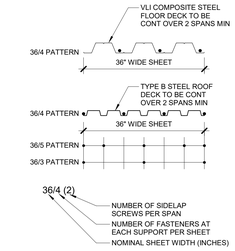


NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 LBS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 LBS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 LBS AND 200 LBS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

2 EXISTING JOIST CONCENTRATED LOAD REINFORCEMENT

1 1/2" = 1'-0"
9200-01

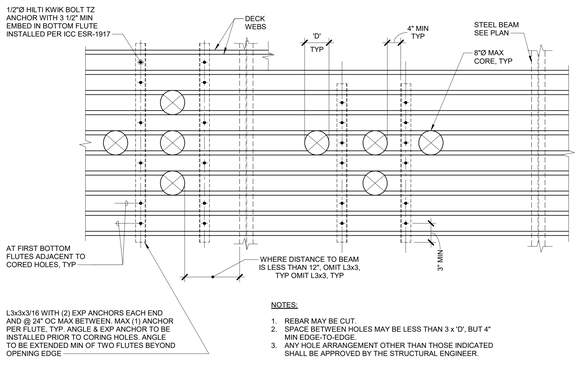


NOTE:

1. SEE 10/S5.0 FOR TYPICAL SLOPED FRAMING DETAIL.

3 TYPICAL STEEL DECK FASTENING DETAIL

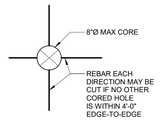
3/4" = 1'-0"



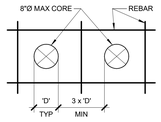
NOTES:

1. REBAR MAY BE CUT.
2. SPACE BETWEEN HOLES MAY BE LESS THAN 3 x 'D', BUT 4" MIN EDGE-TO-EDGE.
3. ANY HOLE ARRANGEMENT OTHER THAN THOSE INDICATED SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

GROUPED HOLES



ISOLATED HOLE



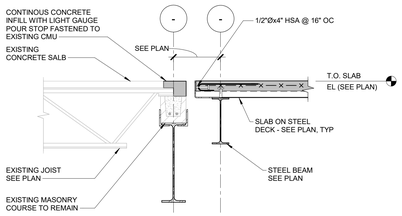
NOTES:

1. NO REBAR MAY BE CUT.
2. WHERE HOLES ARE CLOSER THAN 3 x 'D' OR REBAR MUST BE CUT, CONFORM TO 'GROUPED HOLES'.

MULTIPLE HOLES

4 CORED FLOOR OPENINGS DETAIL

3/4" = 1'-0"

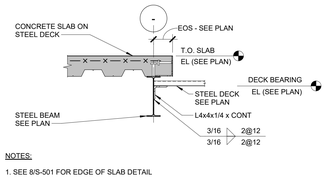


NOTES:

1. RECESS SLAB INFILL AND NEW SLAB AT EXPANSION JOINT COVERS AT PASS THROUGH BETWEEN BUILDINGS. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR MORE INFORMATION.

5 NEW TO EXISTING SLAB

3/4" = 1'-0"

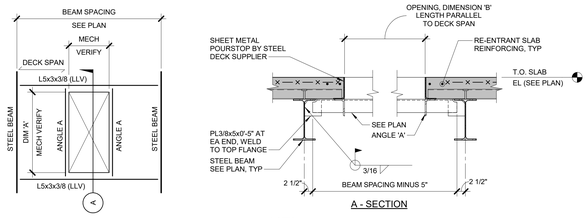


NOTES:

1. SEE 8/S-501 FOR EDGE OF SLAB DETAIL

6 STEP IN DECK

3/4" = 1'-0"



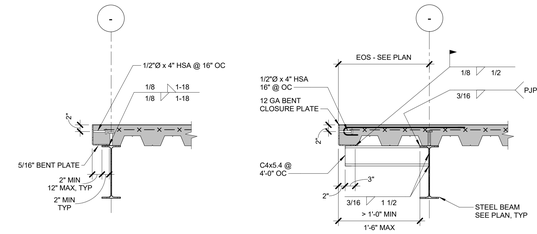
NOTES:

1. APPLIES TO ALL OPENING WITH 'A' DIMENSION GREATER THAN 2'-0" AND LESS THAN 5'-0".
2. ALL ANGLES ARE LLV:
   A. ANGLE 'A' = L4x4x1/4, DIM A = 5'-0"

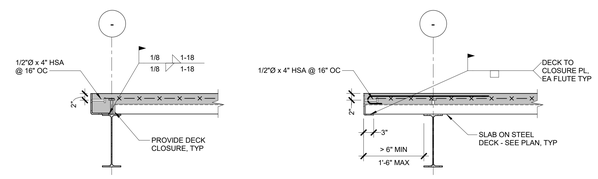
COMPOSITE SLAB DECK SPAN 10'-0" AND LESS, WIDTH 'A' > 2'-0" TO 5'-0"

7 FRAMING AT FLOOR OPENING

3/4" = 1'-0"



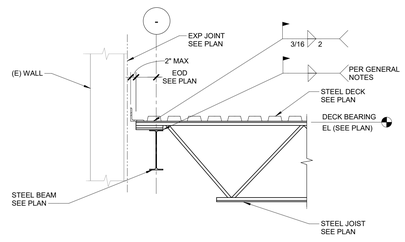
PARALLEL TO DECK DETAILS



PERPENDICULAR TO DECK DETAILS

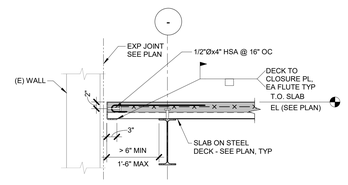
8 TYPICAL SLAB EDGE DETAILS

3/4" = 1'-0"



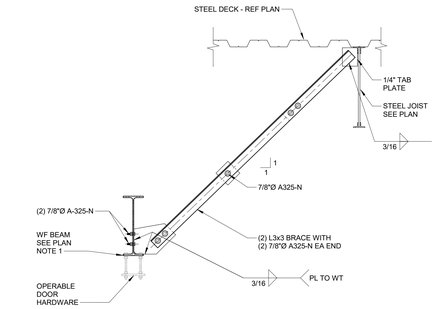
9 EOD AT EXISTING

3/4" = 1'-0"



10 EOS AT EXISTING

3/4" = 1'-0"

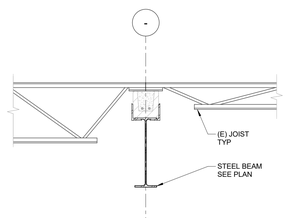


NOTES:

1. COORDINATE BEAM ELEVATION AND HOLE SIZE IN BEAM FLANGE WITH SELECTED OPERABLE DOOR SUPPLIER

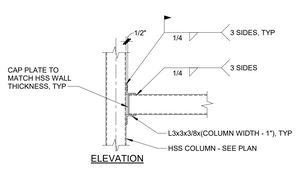
11 OPERABLE DOOR SUPPORT AT GIRDER

3/4" = 1'-0"



12 EXISTING JOIST BEARING AT NEW BEAM

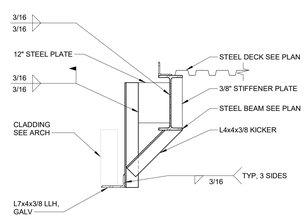
3/4" = 1'-0"



ELEVATION

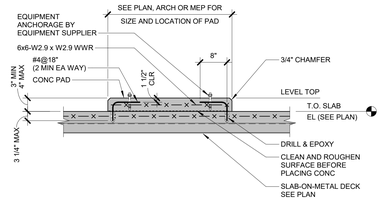
13 HSS TO HSS COLUMN CONNECTION

3/4" = 1'-0"
5160-10



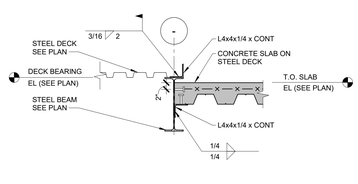
14 SUSPENDED LINTEL

3/4" = 1'-0"



15 SLAB ON DECK EQUIPMENT PAD

3/4" = 1'-0"
5300-07



16 STEP IN SLAB

3/4" = 1'-0"

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DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
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DRAWN BY	ARUMON
REVIEWED BY	Checker

STEEL DETAILS

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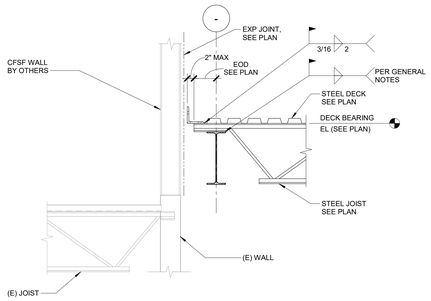
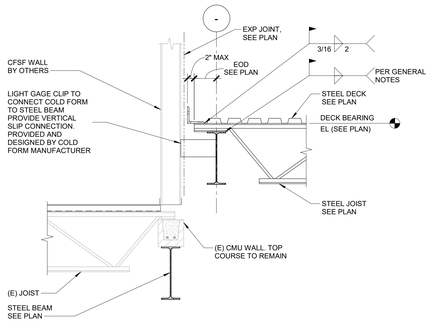
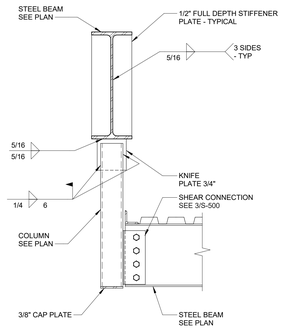
PROJECT #24005955.00



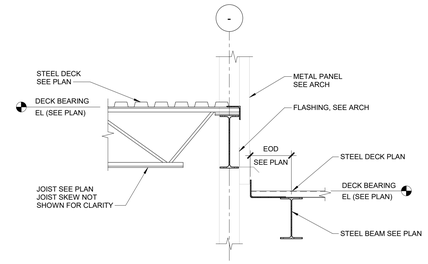
1 EDGE AT EXISTING ROOF
3/4" = 1'-0"



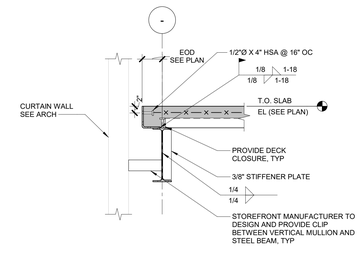
2 EDGE OF ROOF DECK AT OPENING IN EXISTING
3/4" = 1'-0"



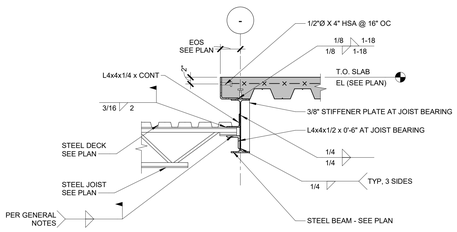
3 HANGER COLUMN
1" = 1'-0"



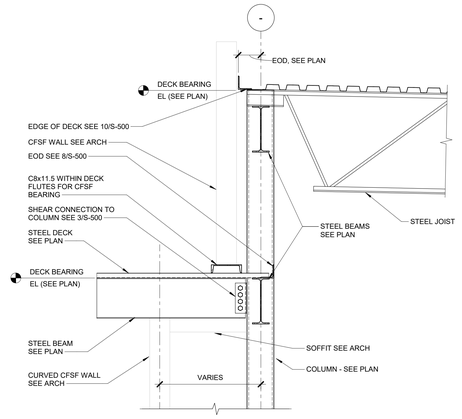
4 HIGH AND LOW ROOF EDGE OF DECK
3/4" = 1'-0"



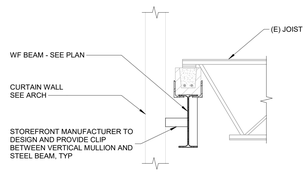
5 EDGE OF SLAB AT CURTAIN WALL
3/4" = 1'-0"



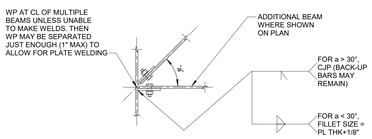
6 JOIST BEARING AT BEAM FLANGE
3/4" = 1'-0"



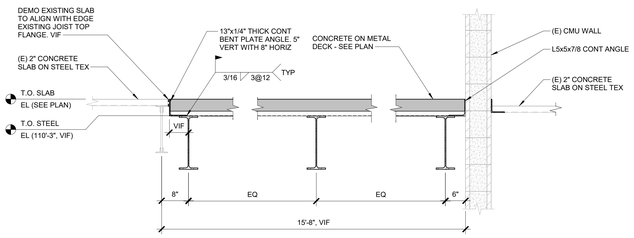
7 HIGH AND LOW ROOF BEARING
3/4" = 1'-0"



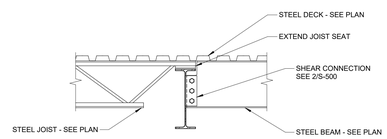
8 CURTAIN WALL AT EXISTING
3/4" = 1'-0"



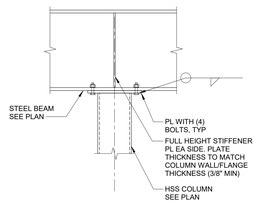
9 PLAN VIEW OF SKEWED SHEAR CONNECTIONS
1" = 1'-0"



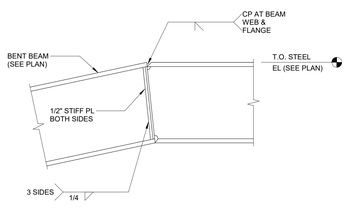
10 SLAB INFILL AT EXISTING STAIR
3/4" = 1'-0"



11 JOIST AND BEAM BEARING
3/4" = 1'-0"

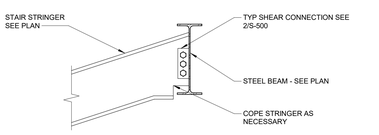


12 COLUMN BEARING ON BEAM
3/4" = 1'-0"

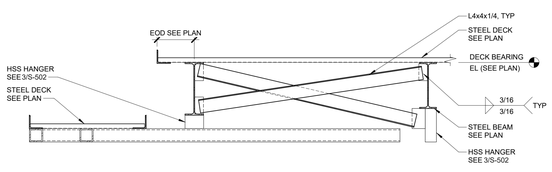


ELEVATION

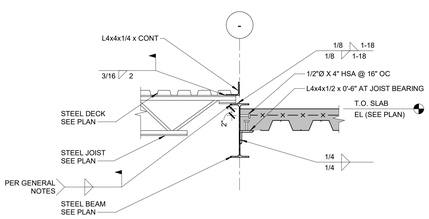
13 TYP BENT BEAM DETAIL
3/4" = 1'-0"



14 STRINGER CONNECTION
1" = 1'-0"



15 BALCONY FRAMING DETAIL
3/4" = 1'-0"



16 JOIST BEARING AT BEAM FLANGE
3/4" = 1'-0"

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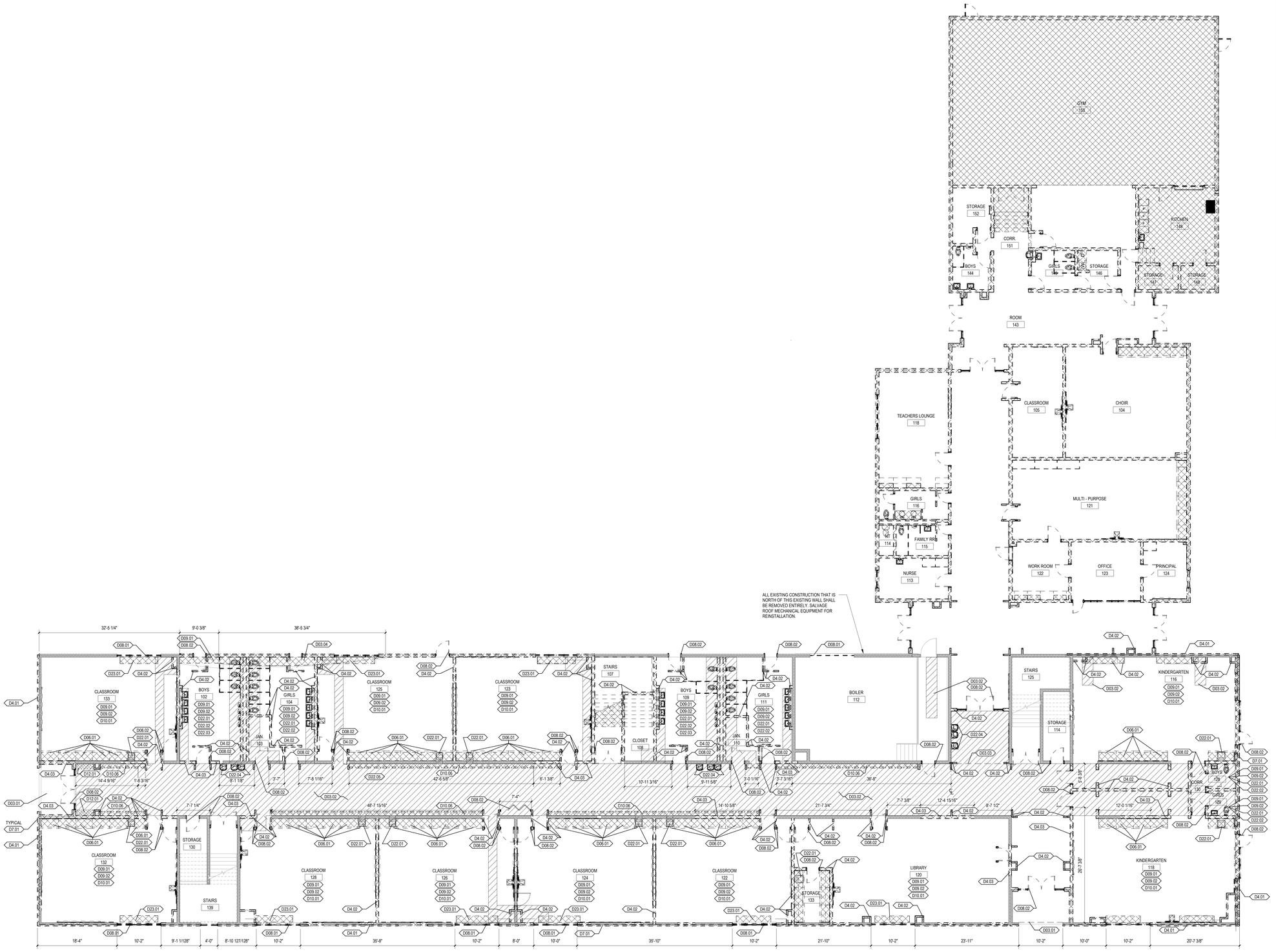

1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION LEGEND

- D## ## — DEMOLITION TAG
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED
- LIMITS OF DEMOLITION WORK - SEE MEPFP DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED

DEMOLITION PLAN GENERAL NOTES

1. REFERENCED DEMOLITION NOTES REFER TO THE MINIMUM AMOUNT OF DEMOLITION REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION. TRADE CONTRACTORS SHALL VISIT PROJECT SITE TO BECOME FAMILIAR WITH COMPLETE SCOPE OF REMOVALS/DEMOLITIONS AND FIELD VERIFY THE EXTENT OF DEMOLITION.
2. EXISTING DIMENSIONS AND HATCHED AREAS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. THE ACTUAL AREA OF DEMOLITION SHOULD BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS.
3. IN THE EVENT THAT AN EXISTING ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM.
4. ALL UTILITIES SHALL REMAIN IN SERVICE FOR OTHER OCCUPANCIES. ANY SHUTDOWNS OF BUILDING MUST BE APPROVED BY OWNER AND OCCUR AT OFF HOURS AS DEFINED BY OWNER.
5. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL MATERIAL OR EQUIPMENT IDENTIFIED TO BE REMOVED. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.
6. REFER TO DRAWINGS FOR LOCATIONS OF ALL ITEMS TO BE REINSTALLED. ALL ITEMS NOT SPECIFICALLY INDICATED FOR REINSTALLATION ON DRAWINGS ARE TO BE TURNED OVER TO THE OWNER. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.
7. ALL REMOVED ITEMS IDENTIFIED FOR REINSTALLATION OR TO BE TURNED OVER TO THE OWNER SHALL BE PROTECTED UNTIL TIME OF REINSTALLATION OR OWNER POSSESSION. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR.
8. THROUGHOUT DEMOLITION AND CONSTRUCTION, PROTECT ITEMS SCHEDULED TO REMAIN AND/OR ALL ADJACENT MATERIALS AND EQUIPMENT, ETC. INDICATED TO REMAIN. COORDINATE REMOVAL AND PROTECTIONS WITH OWNER.
9. DO NOT COMMENCE DEMOLITION UNTIL OWNER HAS REMOVED ALL ARTWORK AND DISPLAYS FROM AREAS OF DEMOLITION.
10. COORDINATE WITH OWNER ACCESS AND LOCATIONS OF TEMPORARY PARTITION. TEMPORARY PARTITION MUST BE DUSTPROOF, AND ACT AS SMOKE AND FIRE BARRIER.
11. AT REMOVAL OF SELECTED DEMOLITION ITEMS WHERE NO NEW CONSTRUCTION IS IDENTIFIED, PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.
12. AT ITEMS TO BE REMOVED, ALSO REMOVE ALL ASSOCIATED BRACKETS, SUPPORTS, FASTENERS, ANCHORS, ETC. PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.
13. PATCH ALL CEILINGS, WALLS AND FLOORS WHERE MECHANICAL, ELECTRICAL, TECHNOLOGY, PLUMBING AND FIRE PROTECTION COMPONENTS ARE TO BE REMOVED IN AN EXISTING CEILINGS, WALLS OR FLOORS TO REMAIN.
14. ALL WALL DEMOLITION SHALL HAVE CLEAN, VERTICAL, SMOOTH CUTS. PATCH, REPLACE AND/OR FILL VOIDS IN WALLS TO REMAIN TO PROVIDE A SMOOTH SURFACE/EDGE FOR THE APPLICATION OF NEW FINISH MATERIAL.
15. WHEN REMOVING EXISTING WALL TILE, FLOOR TILE, RUBBER BASE OR CEILING TILE, REMOVE FINISHES TO THE NEAREST JOINT WHICH ABUTS TILE NOT AFFECTED BY THE CONSTRUCTION. PROTECT THE SURFACES AND EDGES OF EXISTING FINISHES TO REMAIN.
16. AT AREAS WHERE DEMOLITION OF THE FLOORING EXPOSES THE CONCRETE SUBSTRATE: COMPLETELY REMOVE THE MASTIC, SHOT BLAST THE EXISTING CONCRETE TO REMAIN, AND FILL ALL CRACKS AND SPALLED AREAS IN PREPARATION FOR NEW FLOORING MATERIAL. REMOVAL OF FLOORING MATERIAL INCLUDES REMOVAL OF ADJACENT WALL BASE MATERIAL.
17. AT IDENTIFIED AREAS OF SPALLED, UNEVEN AND/OR SEPARATED CONCRETE SLABS; REMOVE ALL LOOSE MATERIAL; GRIND CONCRETE TO ACHIEVE A LEVEL SURFACE AND FILL CRACKS AND SPALLED AREAS IN PREPARATION FOR INSTALLATION OF FINISHED FLOORING.
18. CONTRACTOR SHALL REMOVE EXISTING PLUMBING, MECHANICAL, ELECTRICAL OR OTHER MISCELLANEOUS ITEMS REQUIRED TO COMPLETE NEW WORK BUT NOT REQUIRED TO REMAIN.
19. WHEN REMOVING INTERIOR OR EXTERIOR WALL ASSEMBLIES, CONTRACTOR SHALL ALSO REMOVE ALL ASSOCIATED POWER AND DATA RECEPTACLES, SWITCHES, ETC. REROUTE CONCEALED MEPFP WHERE REQUIRED TO MAINTAIN FUNCTIONING SYSTEMS. REMOVE ABANDONED MEPFP SYSTEMS TO SOURCE AND CAP APPROPRIATELY. REFER TO MECHANICAL, ELECTRICAL, TECHNOLOGY, LOW VOLTAGE, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
20. CONTRACTOR SHALL REMOVE ALL DEBRIS AND TRASH RESULTING FROM CONSTRUCTION ON A DAILY BASIS.
21. GENERAL CONTRACTOR SHALL RECYCLE DEMOLITION CONSTRUCTION DEBRIS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND SUSTAINABLE BEST PRACTICES.
22. IN THE EVENT HAZARDOUS MATERIALS ARE UNCOVERED GENERAL CONTRACTOR IS TO NOTIFY THE OWNER AND THE APPROPRIATE AUTHORITIES. THE ARCHITECT IS NOT RESPONSIBLE FOR REMOVAL / ABATEMENT OF HAZARDOUS MATERIALS. CONTRACTOR TO PROVIDE REMOVAL / ABATEMENT AT LOCATIONS NECESSARY.
23. REFER TO THE CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND TECHNOLOGY DRAWINGS FOR THE DEMOLITION WORK SPECIFIC TO THOSE DISCIPLINES.
24. STRUCTURAL ITEMS SHOWN AS 'TO BE REMOVED' ARE FOR REFERENCE ONLY. VERIFY APPROPRIATE SHORING OR REINFORCEMENT CONDITION WITH STRUCTURAL DRAWINGS.

DEMOLITION NOTES (D## ##)

Type	DESCRIPTION
03.01	DEMOLISH EXISTING STOOOP SYSTEM FOR INSTALLATION OF NEW CONSTRUCTION.
03.02	HATCH PATTEIN INDICATES ENTIRE EXISTING FLOOR SLAB TO BE REMOVED FOR INSTALLATION OF NEW CONSTRUCTION. PROVIDE NEW FLOOR SLAB.
03.03	REMOVE PORTION OF EXISTING CONCRETE SLAB NORTH OF DASHED LINE AS REQUIRED FOR NEW CONSTRUCTION.
03.04	REMOVE PORTION OF EXISTING CONCRETE SLAB FOR NEW CONSTRUCTION.
04.01	REMOVE EXISTING FACE BRICK ENTIRELY. PATCH AND REPAIR EXISTING CONCRETE MASONRY WALL FOR INSTALLATION OF NEW CLADDING SYSTEM.
04.02	REMOVE EXISTING CMU WALL AND SURFACE MOUNTED ITEMS ENTIRELY
04.03	REMOVE PORTION OF EXISTING CMU WALL AND SURFACE MOUNTED ITEMS AS REQUIRED IN PREPARATION FOR NEW CONSTRUCTION
04.04	REMOVE EXISTING FACE BRICK SUPPORTED BY LOWER EXISTING STRUCTURE ENTIRELY. PATCH AND REPAIR EXPOSED EXISTING MASONRY AS REQUIRED FOR NEW CONSTRUCTION.
06.01	REMOVE EXISTING BASE CABINETS AND UPPER CABINETS
07.01	REMOVE EXISTING FASCIA BUILD OUT AT TOP OF EXISTING WINDOWS AND CAP AT TOP OF EXISTING WALL ENTIRELY. PATCH AND REPAIR WALL.
08.01	DEMOLISH EXISTING WINDOW SYSTEM ENTIRELY. PATCH AND REPAIR WALL.
08.02	REMOVE DOOR AND FRAME SYSTEM ENTIRELY. PATCH AND REPAIR WALL FOR NEW CONSTRUCTION.
09.01	REMOVE EXISTING FLOORING. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOORING MATERIAL
09.02	REMOVE EXISTING CEILING TILE SYSTEM AND ASSOCIATED CEILING MOUNTED DEVICES ENTIRELY. PATCH AND REPAIR FOR NEW CONSTRUCTION.
10.01	REMOVE ALL MARKERBOARDS, TACKBOARDS, TACK STRIPS, CELING MOUNTED PROJECTORS, SCREENS, SHELVES ETC. IN THIS ROOM AND RETURN TO OWNER.
10.06	REMOVE EXISTING SHELF. PATCH AND REPAIR AS REQUIRED
12.01	REMOVE EXISTING STORAGE CABINET AND RETURN TO OWNER.
22.01	REMOVE EXISTING SINK, FAUCET, AND PLUMBING ACESSORIES.
22.02	REMOVE EXISTING TOILET AND ASSOCIATED PLUMBING ACESSORIES AS REQUIRED TO ACCOMPLISH NEW WORK.
22.03	REMOVE EXISTING URINAL AND ASSOCIATED PLUMBING ACESSORIES AS REQUIRED TO ACCOMPLISH NEW WORK.
22.04	REMOVE EXISTING DRINKING FOUNTAIN AND RELATED PLUMBING ENTIRELY. CAP PLUMBING AT WALLS OR FLOOR. PATCH AND REPAIR ADJACENT SURFACES AS REQUIRED FOR NEW CONSTRUCTION.
22.05	REMOVE EXISTING FLOOR SLAB AS REQUIRED FOR UNDERGROUND UTILITY WORK. CONCTRACTOR TO COORDINATE WITH MEP DRAWINGS.
23.01	REMOVE EXISTING UNIT VENTILATOR AND SALVAGE FOR RELOCATION. REFER TO MECHANICAL DRAWINGS.

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NO.	DESCRIPTION	DATE

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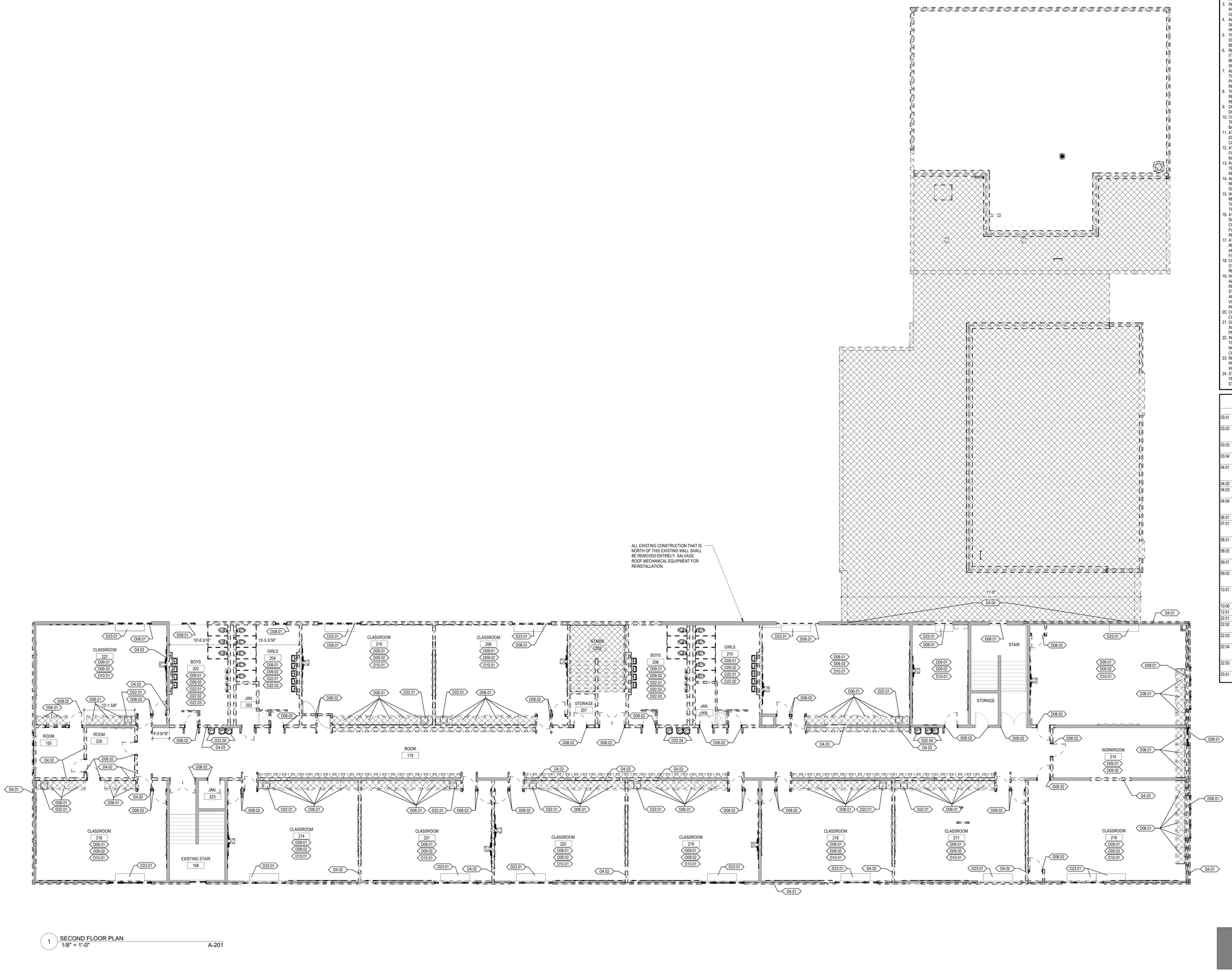
DRAWN BY	BE
REVIEWED BY	ZC

FIRST FLOOR DEMOLITION PLAN

AD101
BIDDING



1 SECOND FLOOR PLAN
1/8" = 1'-0" A-201

DEMOLITION LEGEND

- D## ## DEMOLITION TAG
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED
- LIMITS OF DEMOLITION WORK - SEE MEPFP DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED

DEMOLITION PLAN GENERAL NOTES

1. REFERENCED DEMOLITION NOTES REFER TO THE MINIMUM AMOUNT OF DEMOLITION REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION. TRADE CONTRACTORS SHALL VISIT PROJECT SITE TO BECOME FAMILIAR WITH COMPLETE SCOPE OF REMOVALS/DEMOLITIONS AND FIELD VERIFY THE EXTENT OF DEMOLITION.
2. EXISTING DIMENSIONS AND HATCHED AREAS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. THE ACTUAL AREA OF DEMOLITION SHOULD BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS.
3. IN THE EVENT THAT AN EXISTING ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM.
4. ALL UTILITIES SHALL REMAIN IN SERVICE FOR OTHER OCCUPANCIES. ANY SHUTDOWNS OF BUILDING MUST BE APPROVED BY OWNER AND OCCUR AT OFF HOURS AS DEFINED BY OWNER.
5. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL MATERIAL OR EQUIPMENT IDENTIFIED TO BE REMOVED. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.
6. REFER TO DRAWINGS FOR LOCATIONS OF ALL ITEMS TO BE REINSTALLED. ALL ITEMS NOT SPECIFICALLY INDICATED FOR REINSTALLATION ON DRAWINGS ARE TO BE TURNED OVER TO THE OWNER. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.
7. ALL REMOVED ITEMS IDENTIFIED FOR REINSTALLATION OR TO BE TURNED OVER TO THE OWNER SHALL BE PROTECTED UNTIL TIME OF REINSTALLATION OR OWNER POSSESSION. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR.
8. THROUGHOUT DEMOLITION AND CONSTRUCTION, PROTECT ITEMS SCHEDULED TO REMAIN AND/OR ALL ADJACENT MATERIALS AND EQUIPMENT, ETC. INDICATED TO REMAIN. COORDINATE REMOVAL AND PROTECTIONS WITH OWNER.
9. DO NOT COMMENCE DEMOLITION UNTIL OWNER HAS REMOVED ALL ARTWORK AND DISPLAYS FROM AREAS OF DEMOLITION.
10. COORDINATE WITH OWNER ACCESS AND LOCATIONS OF TEMPORARY PARTITION. TEMPORARY PARTITION MUST BE DUSTPROOF, AND ACT AS SMOKE AND FIRE BARRIER.
11. AT REMOVAL OF SELECTED DEMOLITION ITEMS WHERE NO NEW CONSTRUCTION IS IDENTIFIED, PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.
12. AT ITEMS TO BE REMOVED, ALSO REMOVE ALL ASSOCIATED BRACKETS, SUPPORTS, FASTENERS, ANCHORS, ETC. PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.
13. PATCH ALL CEILINGS, WALLS AND FLOORS WHERE MECHANICAL, ELECTRICAL, TECHNOLOGY, PLUMBING AND FIRE PROTECTION COMPONENTS ARE TO BE REMOVED IN AN EXISTING CEILINGS, WALLS OR FLOORS TO REMAIN.
14. ALL WALL DEMOLITION SHALL HAVE CLEAN, VERTICAL, SMOOTH CUTS. PATCH, REPLACE AND/OR FILL VOIDS IN WALLS TO REMAIN TO PROVIDE A SMOOTH SURFACE/EDGE FOR THE APPLICATION OF NEW FINISH MATERIAL.
15. WHEN REMOVING EXISTING WALL TILE, FLOOR TILE, RUBBER BASE OR CEILING TILE, REMOVE FINISHES TO THE NEAREST JOINT WHICH ABUTS TILE NOT AFFECTED BY THE CONSTRUCTION. PROTECT THE SURFACES AND EDGES OF EXISTING FINISHES TO REMAIN.
16. AT AREAS WHERE DEMOLITION OF THE FLOORING EXPOSES THE CONCRETE SUBSTRATE: COMPLETELY REMOVE THE MASTIC, SHOT BLAST THE EXISTING CONCRETE TO REMAIN, AND FILL ALL CRACKS AND SPALLED AREAS IN PREPARATION FOR NEW FLOORING MATERIAL. REMOVAL OF FLOORING MATERIAL INCLUDES REMOVAL OF ADJACENT WALL BASE MATERIAL.
17. AT IDENTIFIED AREAS OF SPALLED, UNEVEN AND/OR SEPARATED CONCRETE SLABS; REMOVE ALL LOOSE MATERIAL; GRIND CONCRETE TO ACHIEVE A LEVEL SURFACE AND FILL CRACKS AND SPALLED AREAS IN PREPARATION FOR INSTALLATION OF FINISHED FLOORING.
18. CONTRACTOR SHALL REMOVE EXISTING PLUMBING, MECHANICAL, ELECTRICAL OR OTHER MISCELLANEOUS ITEMS REQUIRED TO COMPLETE NEW WORK BUT NOT REQUIRED TO REMAIN.
19. WHEN REMOVING INTERIOR OR EXTERIOR WALL ASSEMBLIES, CONTRACTOR SHALL ALSO REMOVE ALL ASSOCIATED POWER AND DATA RECEPTACLES, SWITCHES, ETC. REROUTE CONCEALED MEPFP WHERE REQUIRED TO MAINTAIN FUNCTIONING SYSTEMS; REMOVE ABANDONED MEPFP SYSTEMS TO SOURCE AND CAP APPROPRIATELY. REFER TO MECHANICAL, ELECTRICAL, TECHNOLOGY, LOW VOLTAGE, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
20. CONTRACTOR SHALL REMOVE ALL DEBRIS AND TRASH RESULTING FROM CONSTRUCTION ON A DAILY BASIS.
21. GENERAL CONTRACTOR SHALL RECYCLE DEMOLITION CONSTRUCTION DEBRIS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND SUSTAINABLE BEST PRACTICES.
22. IN THE EVENT HAZARDOUS MATERIALS ARE UNCOVERED GENERAL CONTRACTOR IS TO NOTIFY THE OWNER AND THE APPROPRIATE AUTHORITIES. THE ARCHITECT IS NOT RESPONSIBLE FOR REMOVAL / ABATEMENT OF HAZARDOUS MATERIALS. CONTRACTOR TO PROVIDE REMOVAL / ABATEMENT AT LOCATIONS NECESSARY.
23. REFER TO THE CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND TECHNOLOGY DRAWINGS FOR THE DEMOLITION WORK SPECIFIC TO THOSE DISCIPLINES.
24. STRUCTURAL ITEMS SHOWN AS 'TO BE REMOVED' ARE FOR REFERENCE ONLY. VERIFY APPROPRIATE SHORING OR REINFORCEMENT CONDITION WITH STRUCTURAL DRAWINGS.

DEMOLITION NOTES <D## ##>

Type	DESCRIPTION
03.01	DEMOLISH EXISTING STOOOP SYSTEM FOR INSTALLATION OF NEW CONSTRUCTION.
03.02	HATCH PATTERN INDICATES ENTIRE EXISTING FLOOR SLAB TO BE REMOVED FOR INSTALLATION OF NEW CONSTRUCTION. PROVIDE NEW FLOOR SLAB.
03.03	REMOVE PORTION OF EXISTING CONCRETE SLAB NORTH OF DASHED LINE AS REQUIRED FOR NEW CONSTRUCTION.
03.04	REMOVE PORTION OF EXISTING CONCRETE SLAB FOR NEW CONSTRUCTION.
04.01	REMOVE EXISTING FACE BRICK ENTIRELY. PATCH AND REPAIR EXISTING CONCRETE MASONRY WALL FOR INSTALLATION OF NEW CLADDING SYSTEM.
04.02	REMOVE EXISTING CMU WALL AND SURFACE MOUNTED ITEMS ENTIRELY
04.03	REMOVE PORTION OF EXISTING CMU WALL AND SURFACE MOUNTED ITEMS AS REQUIRED IN PREPARATION FOR NEW CONSTRUCTION
04.04	REMOVE EXISTING FACE BRICK SUPPORTED BY LOWER EXISTING STRUCTURE ENTIRELY. PATCH AND REPAIR EXPOSED EXISTING MASONRY AS REQUIRED FOR NEW CONSTRUCTION.
06.01	REMOVE EXISTING BASE CABINETS AND UPPER CABINETS
07.01	REMOVE EXISTING FASCIA BUILD OUT AT TOP OF EXISTING WINDOWS AND CAP AT TOP OF EXISTING WALL ENTIRELY. PATCH AND REPAIR WALL.
08.01	DEMOLISH EXISTING WINDOW SYSTEM ENTIRELY. PATCH AND REPAIR WALL.
08.02	REMOVE DOOR AND FRAME SYSTEM ENTIRELY. PATCH AND REPAIR WALL FOR NEW CONSTRUCTION.
09.01	REMOVE EXISTING FLOORING. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOORING MATERIAL
09.02	REMOVE EXISTING CEILING TILE SYSTEM AND ASSOCIATED CEILING MOUNTED DEVICES ENTIRELY. PATCH AND REPAIR FOR NEW CONSTRUCTION.
10.01	REMOVE ALL MARKERBOARDS, TACKBOARDS, TACK STRIPS, CEILING MOUNTED PROJECTORS, SCREENS, SHELVES ETC. IN THIS ROOM AND RETURN TO OWNER.
10.06	REMOVE EXISTING SHELF. PATCH AND REPAIR AS REQUIRED
12.01	REMOVE EXISTING STORAGE CABINET AND RETURN TO OWNER.
22.01	REMOVE EXISTING SINK, FAUCET, AND PLUMBING ACCESSORIES.
22.02	REMOVE EXISTING TOILET AND ASSOCIATED PLUMBING ACCESSORIES AS REQUIRED TO ACCOMPLISH NEW WORK.
22.03	REMOVE EXISTING URINAL AND ASSOCIATED PLUMBING ACCESSORIES AS REQUIRED TO ACCOMPLISH NEW WORK.
22.04	REMOVE EXISTING DRINKING FOUNTAIN AND RELATED PLUMBING ENTIRELY. CAP PLUMBING AT WALLS OR FLOOR. PATCH AND REPAIR ADJACENT SURFACES AS REQUIRED FOR NEW CONSTRUCTION.
22.05	REMOVE EXISTING FLOOR SLAB AS REQUIRED FOR UNDERGROUND UTILITY WORK. CONCTRACTOR TO COORDINATE WITH MEP DRAWINGS.
23.01	REMOVE EXISTING UNIT VENTILATOR AND SALVAGE FOR RELOCATION. REFER TO MECHANICAL DRAWINGS.

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SECOND FLOOR DEMOLITION PLAN

AD102

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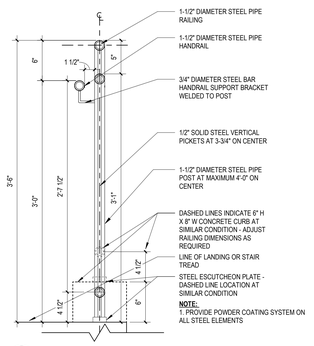
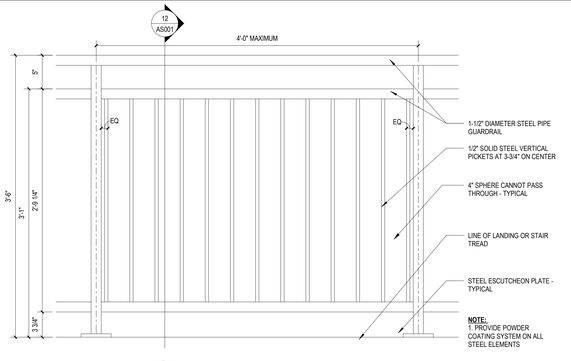
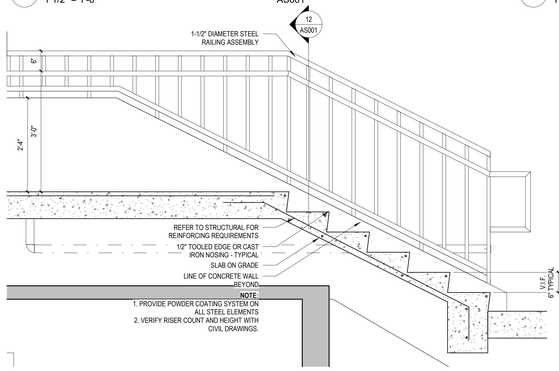


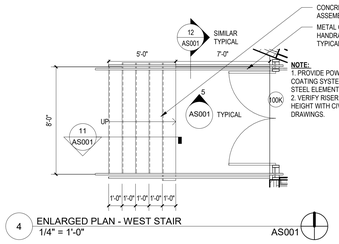
12 STAIR RAILING SECTION DETAIL
1 1/2" = 1'-0" AS001



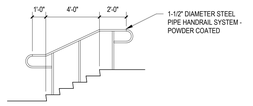
5 TYPICAL RAILING ELEVATION
1 1/2" = 1'-0" AS001



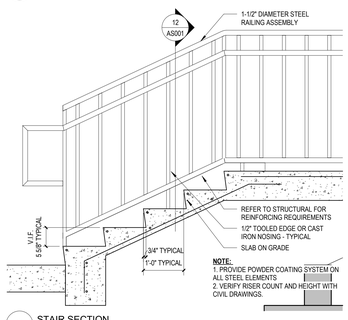
11 STAIR SECTION
3/4" = 1'-0" A-621



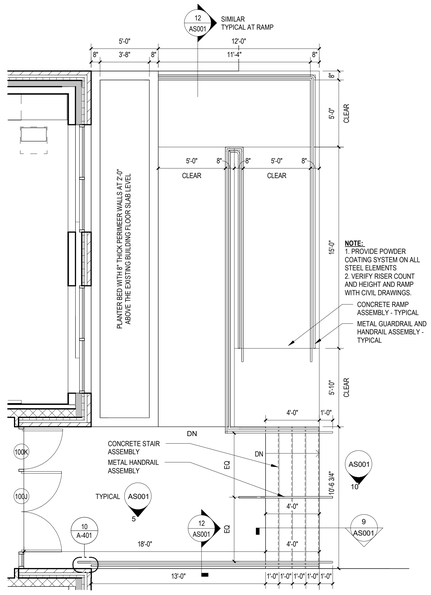
4 ENLARGED PLAN - WEST STAIR
1/4" = 1'-0" AS001



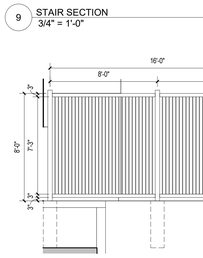
10 TYPICAL HANDRAIL ELEVATION
1/4" = 1'-0" A-101C



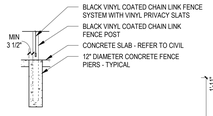
9 STAIR SECTION
3/4" = 1'-0" AS001



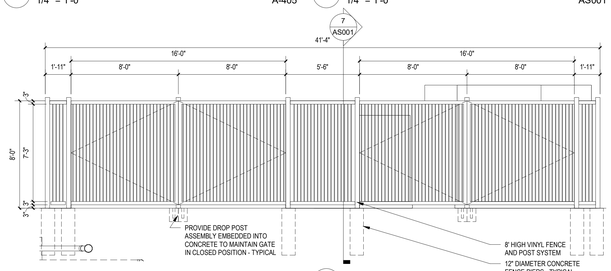
3 ENLARGED PLAN - EAST STAIR AND RAMP
1/4" = 1'-0" AS001



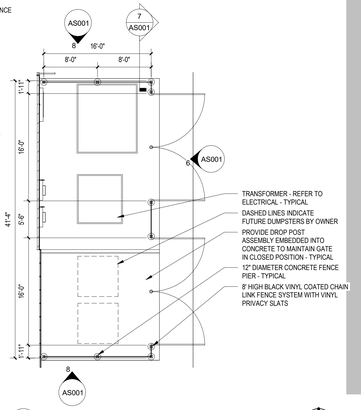
8 ELEVATION
1/4" = 1'-0" A-405



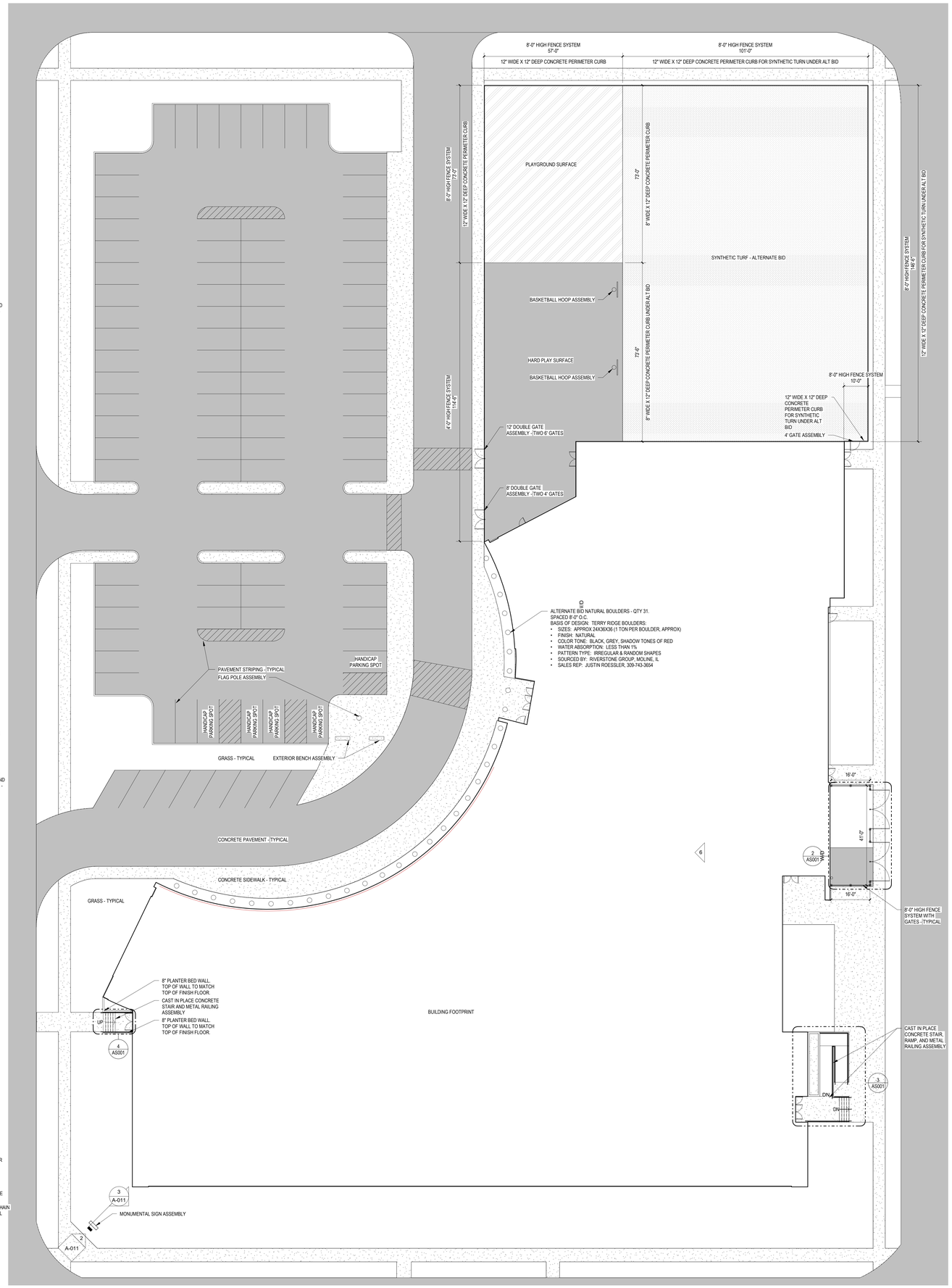
7 FENCE SECTION DETAIL
1/4" = 1'-0" AS001



6 ELEVATION
1/4" = 1'-0" A-101B



2 ENLARGED PLAN
1/8" = 1'-0" AS001



1 OVERALL FIRST FLOOR PLAN
1/16" = 1'-0" A-201

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ARCHITECTURAL SITE PLAN

AS001

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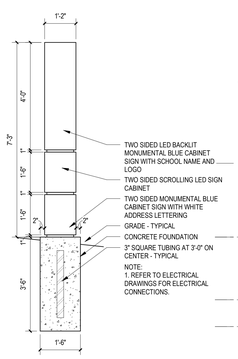
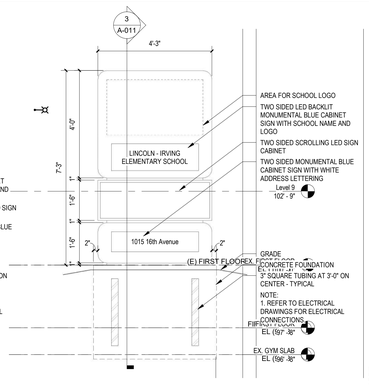
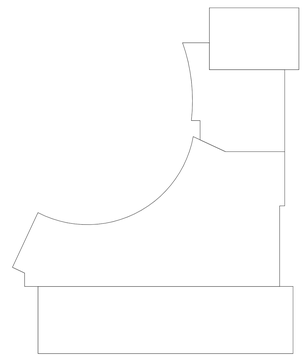


3 MONUMENTAL SIGN SECTION
1/2" = 1'-0" A-011



2 MONUMENTAL SIGN ELEVATION
1/2" = 1'-0" A-011

1 OVERALL FIRST FLOOR PLAN
3/32" = 1'-0"



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OVERALL REFERENCE PLAN - FIRST FLOOR

A-011

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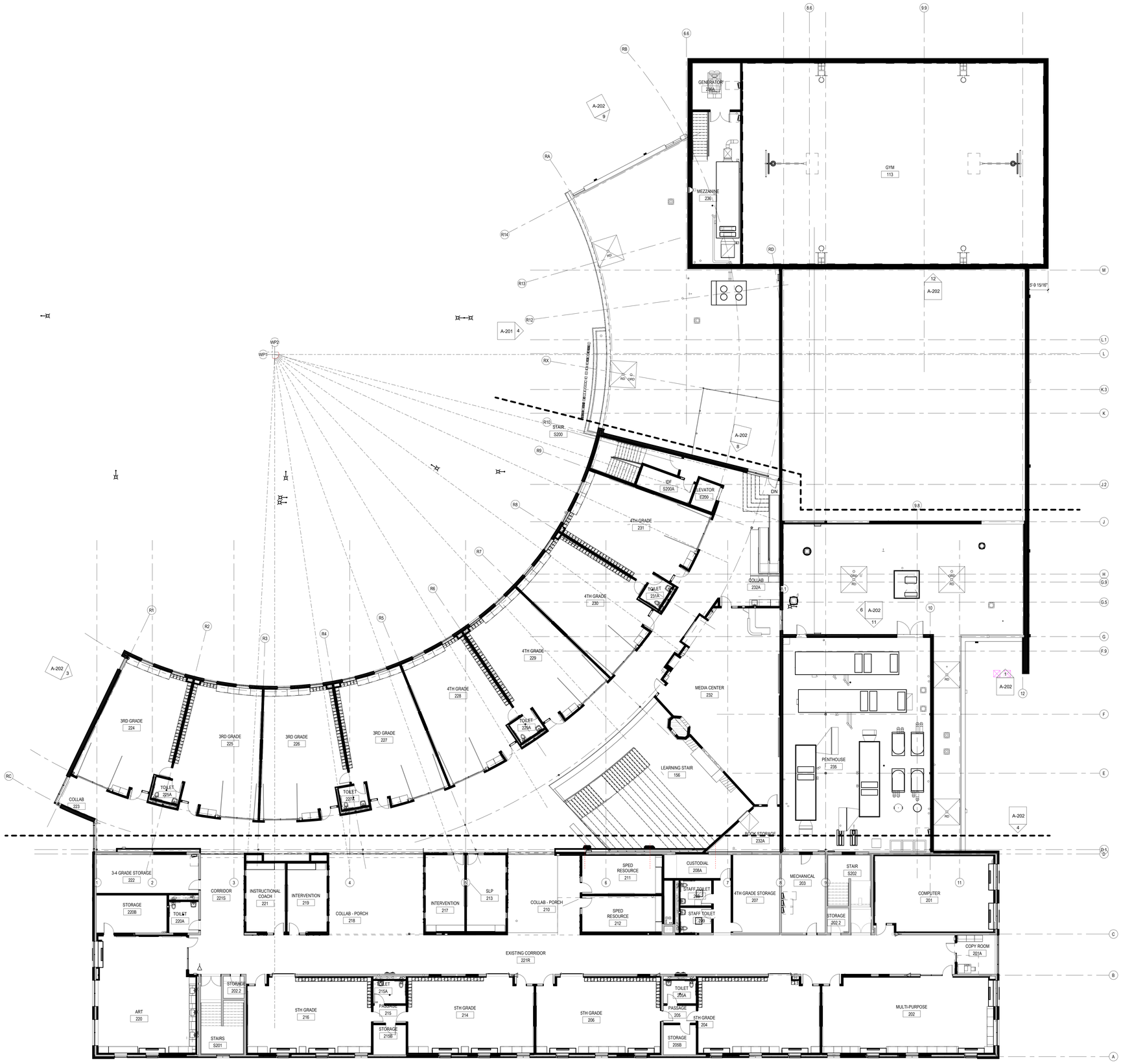
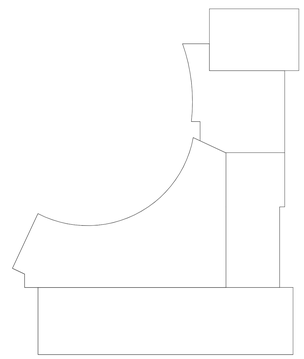


1 02 SECOND FLOOR_OVERALL
3/32" = 1'-0"



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OVERALL REFERENCE PLAN - SECOND FLOOR

A-012

BIDDING

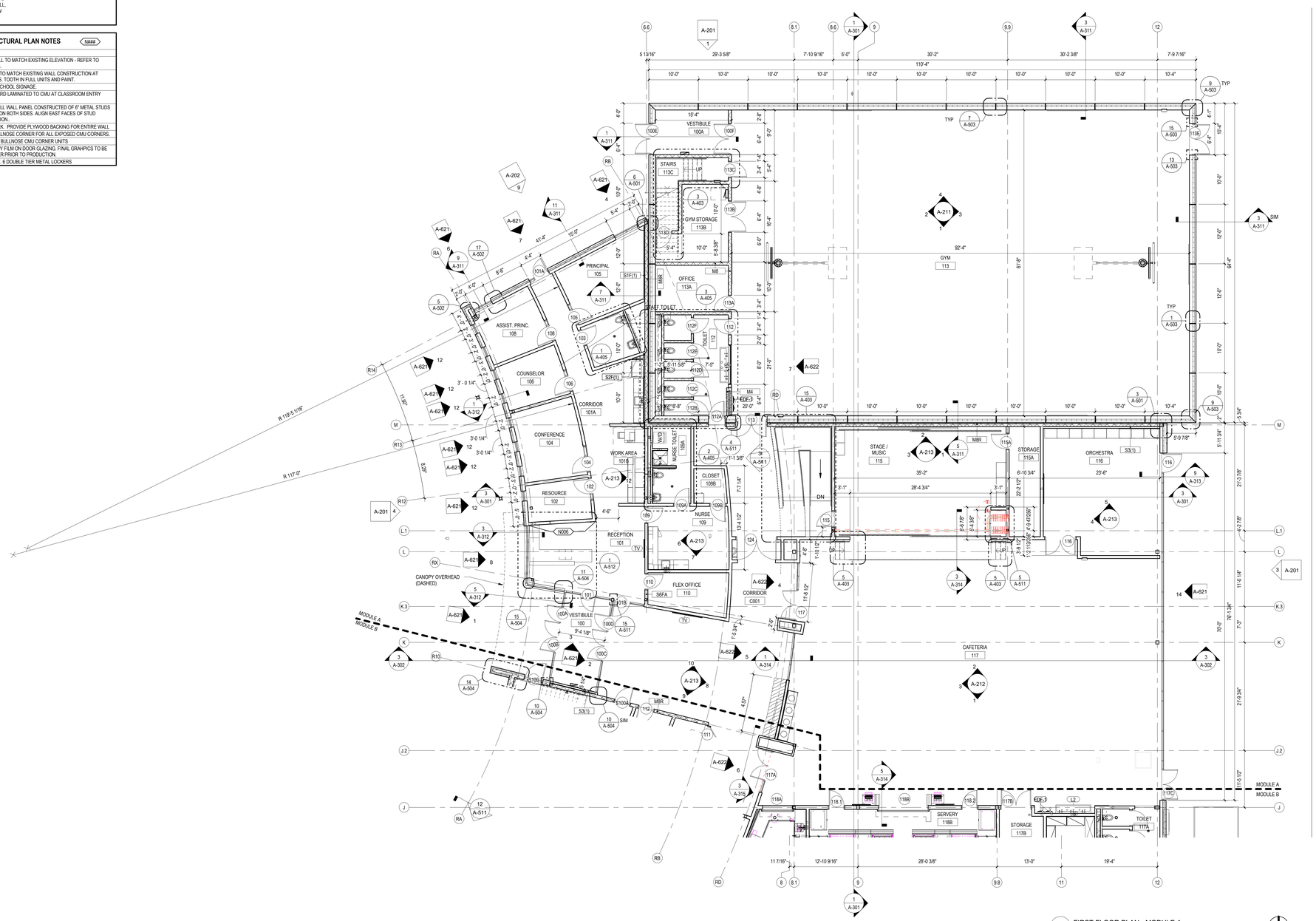
FLOOR PLAN LEGEND

1 / A101 SIM	DETAIL SECTION TAG	CG	CORNER GUARD - REFER TO DETAIL
		FE	FIRE EXTINGUISHER - WALL MOUNTED
1 / A101 SIM	BUILDING & WALL SECTION TAG	FEC	RECESSED FIRE EXTINGUISHER AND CABINET
		FEC-R	FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
S3FA	WALL TYPE - REFER TO A-611 FOR WALL TYPES	FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
101	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE	FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
ROOM NAME / 101	ROOM NAME / ROOM NUMBER	MB#	MARKER BOARD
		TB#	TACK BOARD
A101 Ref	INTERIOR ELEVATION TAG	FD	FLOOR DRAIN
A101 1 Ref	EXTERIOR ELEVATION TAG		AREA NOT IN CONTRACT
		N###	NEW WORK NOTE
0	COLUMN TAG AND COLUMN CENTERLINE		
A101 Ref	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION		

ARCHITECTURAL PLAN NOTES

N###

NOTE	DESCRIPTION
N001	NEW CONCRETE SLAB INFILL TO MATCH EXISTING ELEVATION - REFER TO STRUCTURAL FOR DETAILS.
N002	PROVIDE MASONRY INFILL TO MATCH EXISTING WALL CONSTRUCTION AT CORRIDOR BEARING WALLS. TOOTH IN FULL UNITS AND PAINT.
N003	EXTERIOR MONUMENTAL SCHOOL SIGNAGE.
N004	PROVIDE 5/8" GYPSUM BOARD LAMINATED TO CMU AT CLASSROOM ENTRY WALLS.
N005	INSTALL 10'-0" SQUARE INFILL WALL PANEL CONSTRUCTED OF 6" METAL STUDS WITH 5/8" GYPSUM BOARD ON BOTH SIDES. ALIGN EAST FACES OF STUD PARTITION AND CMU PARITION.
N006	OWNER PROVIDE ART WORK. PROVIDE PLYWOOD BACKING FOR ENTIRE WALL
N007	TYPICAL: PROVIDE A 1" BULLNOSE CORNER FOR ALL EXPOSED CMU CORNERS.
N008	TYPICAL: TOOTH-IN NEW 1" BULLNOSE CMU CORNER UNITS
N009	PROVIDE ONE WAY PRIVACY FILM ON DOOR GLAZING. FINAL GRAHPICS TO BE COORDINATED WITH OWNER PRIOR TO PRODUCTION.
N010	PROVIDE AND INSTALL QTY. 6 DOUBLE TIER METAL LOCKERS



1 FIRST FLOOR PLAN - MODULE A
1/8" = 1'-0"

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MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	BE
REVIEWED BY	ZC

FIRST FLOOR PLAN
MODULE A

A-101A

BIDDING

FLOOR PLAN LEGEND

SIM / 1 / A101	DETAIL SECTION TAG	CG	CORNER GUARD - REFER TO DETAIL
		FE	FIRE EXTINGUISHER - WALL MOUNTED
SIM / 1 / A101	BUILDING & WALL SECTION TAG	FEC	RECESSED FIRE EXTINGUISHER AND CABINET
		FEC-R	FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
S3FA	WALL TYPE - REFER TO A-611 FOR WALL TYPES	FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
101	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE	FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
ROOM NAME / 101	ROOM NAME / ROOM NUMBER	MB#	MARKER BOARD
		TB#	TACK BOARD
A101 Ref	INTERIOR ELEVATION TAG		FLOOR DRAIN
A101 1 Ref	EXTERIOR ELEVATION TAG		AREA NOT IN CONTRACT
		N####	NEW WORK NOTE
0	COLUMN TAG AND COLUMN CENTERLINE		
A101 Ref 1	STOREFRONT, CURTAIN WALL AND WINDOW ELEVATION		

ARCHITECTURAL PLAN NOTES

N####

NOTE	DESCRIPTION
N001	NEW CONCRETE SLAB INFILL TO MATCH EXISTING ELEVATION - REFER TO STRUCTURAL FOR DETAILS.
N002	PROVIDE MASONRY INFILL TO MATCH EXISTING WALL CONSTRUCTION AT CORRIDOR BEARING WALLS. TOOTH IN FULL UNITS AND PAINT.
N003	EXTERIOR MONUMENTAL SCHOOL SIGNAGE.
N004	PROVIDE 5/8" GYPSUM BOARD LAMINATED TO CMU AT CLASSROOM ENTRY WALLS.
N005	INSTALL 10'-0" SQUARE INFILL WALL PANEL CONSTRUCTED OF 6" METAL STUDS WITH 5/8" GYPSUM BOARD ON BOTH SIDES. ALIGN EAST FACES OF STUD PARTITION AND CMU PARITION.
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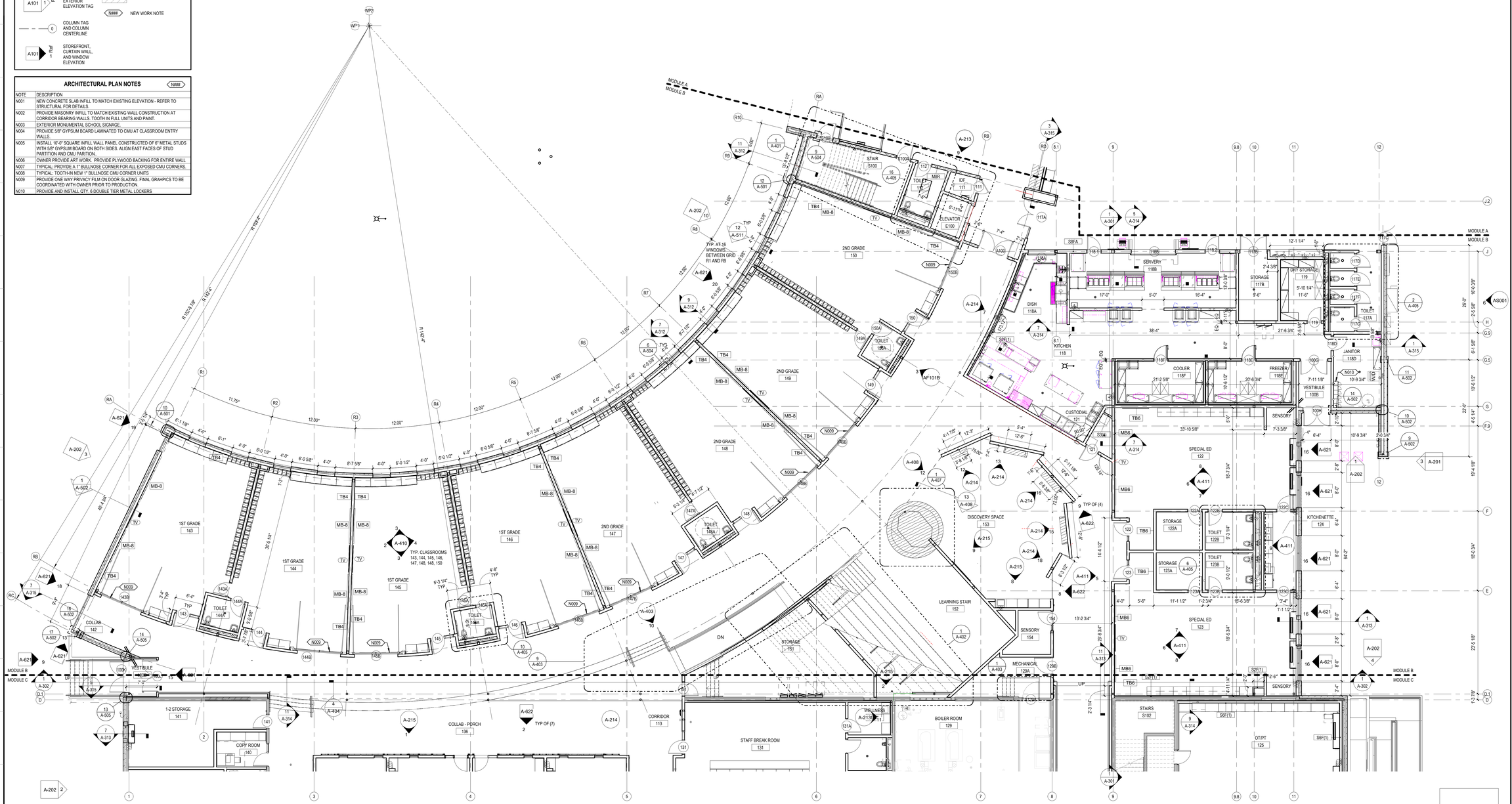
N009	PROVIDE ONE WAY PRIVACY FILM ON DOOR GLAZING. FINAL GRAPHICS TO BE COORDINATED WITH OWNER PRIOR TO PRODUCTION.
N010	PROVIDE AND INSTALL QTY. 6 DOUBLE TIER METAL LOCKERS


MODULE A
MODULE B
MODULE B
MODULE C
MODULE A
MODULE B
MODULE B
MODULE C
R 105'-4"
R 142'-4"
R 105'-4" R 142'-4"
1ST GRADE 143
1ST GRADE 144
1ST GRADE 145
1ST GRADE 146
2ND GRADE 147
2ND GRADE 148
2ND GRADE 149
2ND GRADE 150
TYP. CLASSROOMS 143, 144, 145, 146, 147, 148, 148, 150
COLLAB. 142
1-2 STORAGE 141
COPY ROOM 140
COLLAB - PORCH 136
CORRIDOR 113
STAFF BREAK ROOM 131
WELLNESS 131A
BOILER ROOM 129
STORAGE 151
LEARNING STAIR 152
DISCOVERY SPACE 153
SENSORY 154
MECHANICAL 129A
SERVERY 116B
DRY STORAGE 119
STORAGE 117B
TOILET 117A
DISH 118A
KITCHEN 118
COOLER 118F
FREEZER 118E
CUSTODIAL 121
VESTIBULE 100B
JANITOR 118D
SENSORY
SPECIAL ED 122
STORAGE 122A
TOILET 122B
KITCHENETTE 124
STORAGE 123A
TOILET 123B
SPECIAL ED 123
STAIRS S102
OT/PT 125
ELEVATOR E100
STAIR S100
TOILET 112
MBR
TOILET 111
TOILET 146A
TOILET 147A
TOILET 148A
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FLOOR PLAN LEGEND

1 / A101 SIM	DETAIL SECTION TAG	CG	CORNER GUARD - REFER TO DETAIL
		FE	FIRE EXTINGUISHER - WALL MOUNTED
1 / A101 SIM	BUILDING & WALL SECTION TAG	FEC	RECESSED FIRE EXTINGUISHER AND CABINET
		FEC-R	FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
S3FA	WALL TYPE - REFER TO A-611 FOR WALL TYPES	FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
101	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE	FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
ROOM NAME / 101	ROOM NAME / ROOM NUMBER	MB#	MARKER BOARD
		TB#	TACK BOARD
A101 / Ref / 1	INTERIOR ELEVATION TAG	FD	FLOOR DRAIN
A101 / 1 / Ref	EXTERIOR ELEVATION TAG		AREA NOT IN CONTRACT
0	COLUMN TAG AND COLUMN CENTERLINE	N###	NEW WORK NOTE
A101 / Ref / 1	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION		

ARCHITECTURAL PLAN NOTES (N###)

NOTE	DESCRIPTION
N001	NEW CONCRETE SLAB INFILL TO MATCH EXISTING ELEVATION - REFER TO STRUCTURAL FOR DETAILS.
N002	PROVIDE MASONRY INFILL TO MATCH EXISTING WALL CONSTRUCTION AT CORRIDOR BEARING WALLS. TOOTH IN FULL UNITS AND PAINT.
N003	EXTERIOR MONUMENTAL SCHOOL SIGNAGE.
N004	PROVIDE 5/8" GYPSUM BOARD LAMINATED TO CMU AT CLASSROOM ENTRY WALLS.
N005	INSTALL 10'-0" SQUARE INFILL WALL PANEL CONSTRUCTED OF 6" METAL STUDS WITH 5/8" GYPSUM BOARD ON BOTH SIDES. ALIGN EAST FACES OF STUD PARTITION AND CMU PARITION.
N006	OWNER PROVIDE ART WORK. PROVIDE PLYWOOD BACKING FOR ENTIRE WALL
N007	TYPICAL: PROVIDE A 1" BULLNOSE CORNER FOR ALL EXPOSED CMU CORNERS.
N008	TYPICAL: TOOTH-IN NEW 1" BULLNOSE CMU CORNER UNITS
N009	PROVIDE ONE WAY PRIVACY FILM ON DOOR GLAZING. FINAL GRAHPICS TO BE COORDINATED WITH OWNER PRIOR TO PRODUCTION.
N010	PROVIDE AND INSTALL QTY. 6 DOUBLE TIER METAL LOCKERS

1 FIRST FLOOR PLAN - MODULE C
1/8" = 1'-0"

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	BE
REVIEWED BY	ZC

FIRST FLOOR PLAN
MODULE C

A-101C

BIDDING

FLOOR PLAN LEGEND

SIM 1 / A101	DETAIL SECTION TAG
SIM 1 / A101	BUILDING & WALL SECTION TAG
S3FA	WALL TYPE - REFER TO A-611 FOR WALL TYPES
101	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE
ROOM NAME / 101	ROOM NAME / ROOM NUMBER
A101 1 Ref	INTERIOR ELEVATION TAG
A101 1 Ref	EXTERIOR ELEVATION TAG
0	COLUMN TAG AND COLUMN CENTERLINE
A101 1 Ref	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
CG	CORNER GUARD - REFER TO DETAIL
FE	FIRE EXTINGUISHER - WALL MOUNTED
FEC	RECESSED FIRE EXTINGUISHER AND CABINET
FEC-R	FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
MB#	MARKER BOARD
TB#	TACK BOARD
FD	FLOOR DRAIN
	AREA NOT IN CONTRACT
N####	NEW WORK NOTE

ARCHITECTURAL PLAN NOTES (N####)

NOTE	DESCRIPTION
N001	NEW CONCRETE SLAB INFILL TO MATCH EXISTING ELEVATION - REFER TO STRUCTURAL FOR DETAILS.
N002	PROVIDE MASONRY INFILL TO MATCH EXISTING WALL CONSTRUCTION AT CORRIDOR BEARING WALLS. TOOTH IN FULL UNITS AND PAINT.
N003	EXTERIOR MONUMENTAL SCHOOL SIGNAGE.
N004	PROVIDE 5/8" GYPSUM BOARD LAMINATED TO CMU AT CLASSROOM ENTRY WALLS.
N005	INSTALL 10'-0" SQUARE INFILL WALL PANEL CONSTRUCTED OF 6" METAL STUDS WITH 5/8" GYPSUM BOARD ON BOTH SIDES. ALIGN EAST FACES OF STUD PARTITION AND CMU PARITION.
N006	OWNER PROVIDE ART WORK. PROVIDE PLYWOOD BACKING FOR ENTIRE WALL
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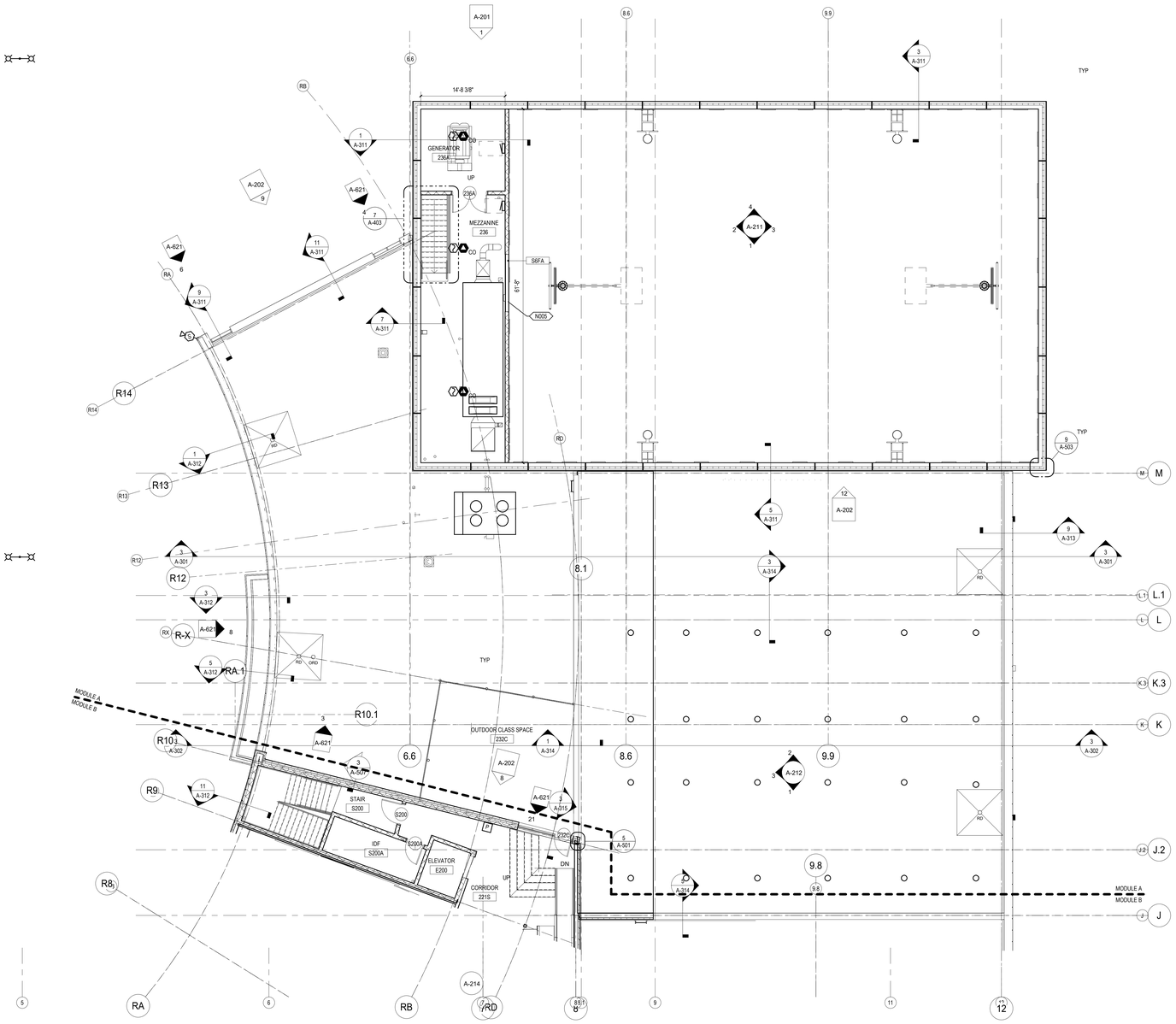
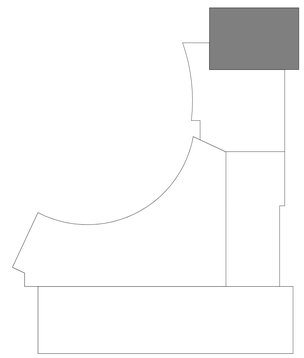
N009	PROVIDE ONE WAY PRIVACY FILM ON DOOR GLAZING. FINAL GRAPHICS TO BE COORDINATED WITH OWNER PRIOR TO PRODUCTION.
N010	PROVIDE AND INSTALL QTY. 6 DOUBLE TIER METAL LOCKERS



1 SECOND FLOOR PLAN - MODULE B
1/8" = 1'-0"



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Design with a Difference

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SIGNATURE

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	VP
REVIEWED BY	ZC

SECOND FLOOR PLAN
MODULE A

A-102A

BIDDING

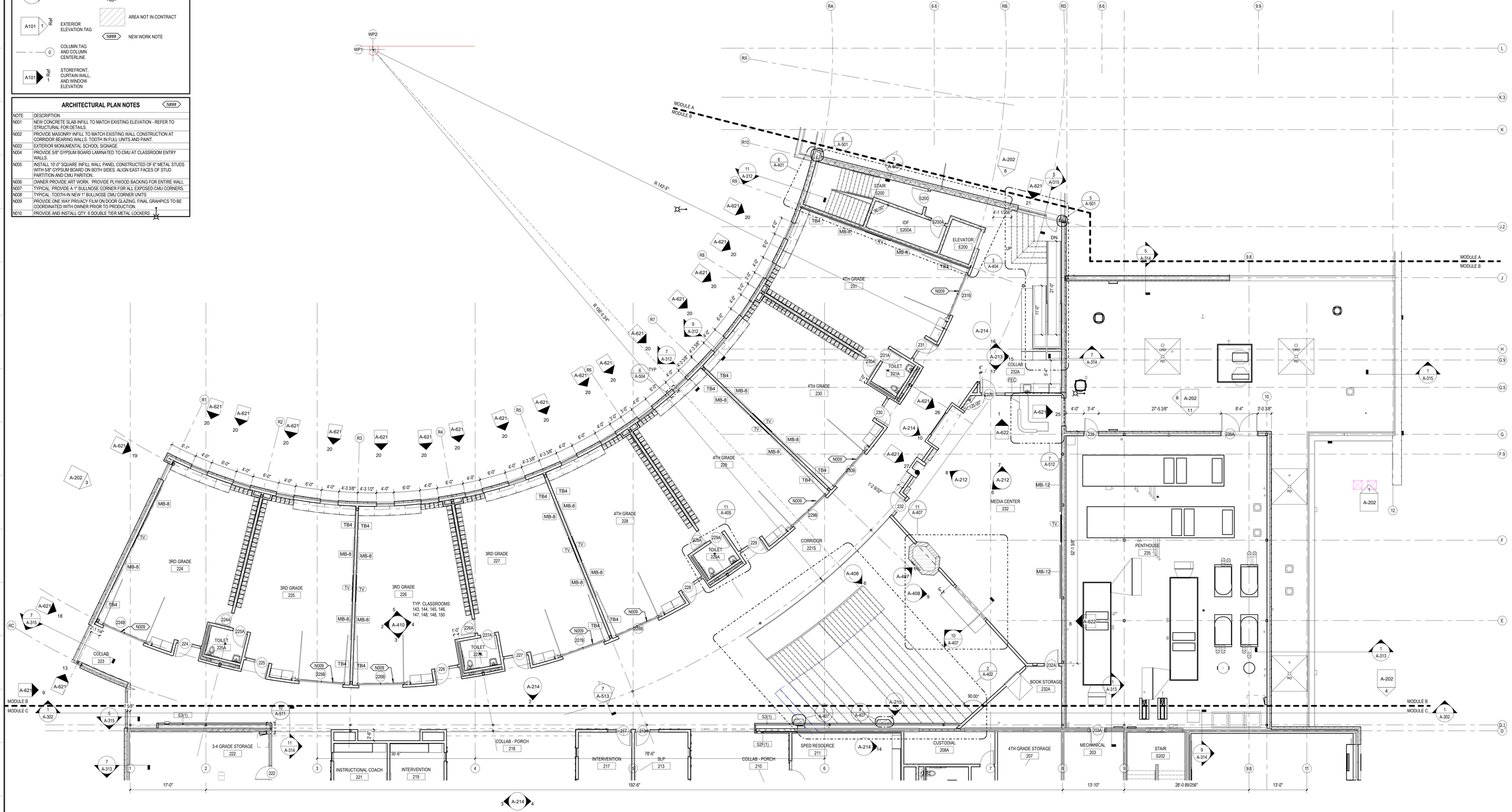
FLOOR PLAN LEGEND

1 / A101	SIM DETAIL SECTION TAG	CG	CORNER GRD - REFER TO DETAIL
1 / A101	SIM BUILDING & WALL SECTION TAG	FE	FIRE EXTINGUISHER - WALL MOUNTED
S3FA	WALL TYPE - REFER TO A-611 FOR WALL TYPES	FEC	RECESSED FIRE EXTINGUISHER AND CABINET
101	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE	FEC-R	FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
ROOM NAME 101	ROOM NAME / ROOM NUMBER	FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
A101 Ref	INTERIOR ELEVATION TAG	FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
A101 1 Ref	EXTERIOR ELEVATION TAG	MB#	MARKER BOARD
0	COLUMN TAG AND COLUMN CENTERLINE	TB#	TACK BOARD
A101 Ref 1	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION	FD	FLOOR DRAIN
			AREA NOT IN CONTRACT
		N###	NEW WORK NOTE

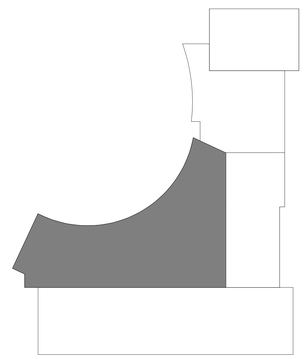
ARCHITECTURAL PLAN NOTES

N###

NOTE	DESCRIPTION
N001	NEW CONCRETE SLAB INFILL TO MATCH EXISTING ELEVATION - REFER TO STRUCTURAL FOR DETAILS.
N002	PROVIDE MASONRY INFILL TO MATCH EXISTING WALL CONSTRUCTION AT CORRIDOR BEARING WALLS. TOOTH IN FULL UNITS AND PAINT.
N003	EXTERIOR MONUMENTAL SCHOOL SIGNAGE.
N004	PROVIDE 5/8" GYPSUM BOARD LAMINATED TO CMU AT CLASSROOM ENTRY WALLS.
N005	INSTALL 10'-2" SQUARE INFILL WALL PANEL CONSTRUCTED OF 6" METAL STUDS WITH 5/8" GYPSUM BOARD ON BOTH SIDES. ALIGN EAST FACES OF STUD PARTITION AND CMU PARTITION.
N006	OWNER PROVIDE ART WORK. PROVIDE PLYWOOD BACKING FOR ENTIRE WALL
N007	TYPICAL: PROVIDE A 1" BULLNOSE CORNER FOR ALL EXPOSED CMU CORNERS.
N008	TYPICAL: TOOTH-IN NEW 1" BULLNOSE CMU CORNER UNITS
N009	PROVIDE ONE WAY PRIVACY FILM ON DOOR GLAZING. FINAL GRAPHICS TO BE COORDINATED WITH OWNER PRIOR TO PRODUCTION.
N010	PROVIDE AND INSTALL QTY. 6 DOUBLE TIER METAL LOCKERS



1 SECOND FLOOR PLAN - MODULE B
1/8" = 1'-0"



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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	VP
REVIEWED BY	ZC

SECOND FLOOR PLAN
MODULE B

A-102B

BIDDING

FLOOR PLAN LEGEND

- SIM — 1 / A101 — DETAIL SECTION TAG
- SIM — 1 / A101 — BUILDING & WALL SECTION TAG
- S3FA — WALL TYPE - REFER TO A-611 FOR WALL TYPES
- 101 — DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE
- ROOM NAME / 101 — ROOM NAME / ROOM NUMBER
- A101 — Ref 1 — INTERIOR ELEVATION TAG
- A101 — 1 — Ref — EXTERIOR ELEVATION TAG
- 0 — COLUMN TAG AND COLUMN CENTERLINE
- A101 — Ref 1 — STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
- CG — CORNER GRD - REFER TO DETAIL
- FE — FIRE EXTINGUISHER - WALL MOUNTED
- FEC — RECESSED FIRE EXTINGUISHER AND CABINET
- FEC-R — FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
- FEC — SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
- FEC-B — SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
- MB# — MARKER BOARD
- TB# — TACK BOARD
- FD — FLOOR DRAIN
- AREA NOT IN CONTRACT
- N### — NEW WORK NOTE

ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
N001	NEW CONCRETE SLAB INFILL TO MATCH EXISTING ELEVATION - REFER TO STRUCTURAL FOR DETAILS.
N002	PROVIDE MASONRY INFILL TO MATCH EXISTING WALL CONSTRUCTION AT CORRIDOR BEARING WALLS. TOOTH IN FULL UNITS AND PAINT.
N003	EXTERIOR MONUMENTAL SCHOOL SIGNAGE.
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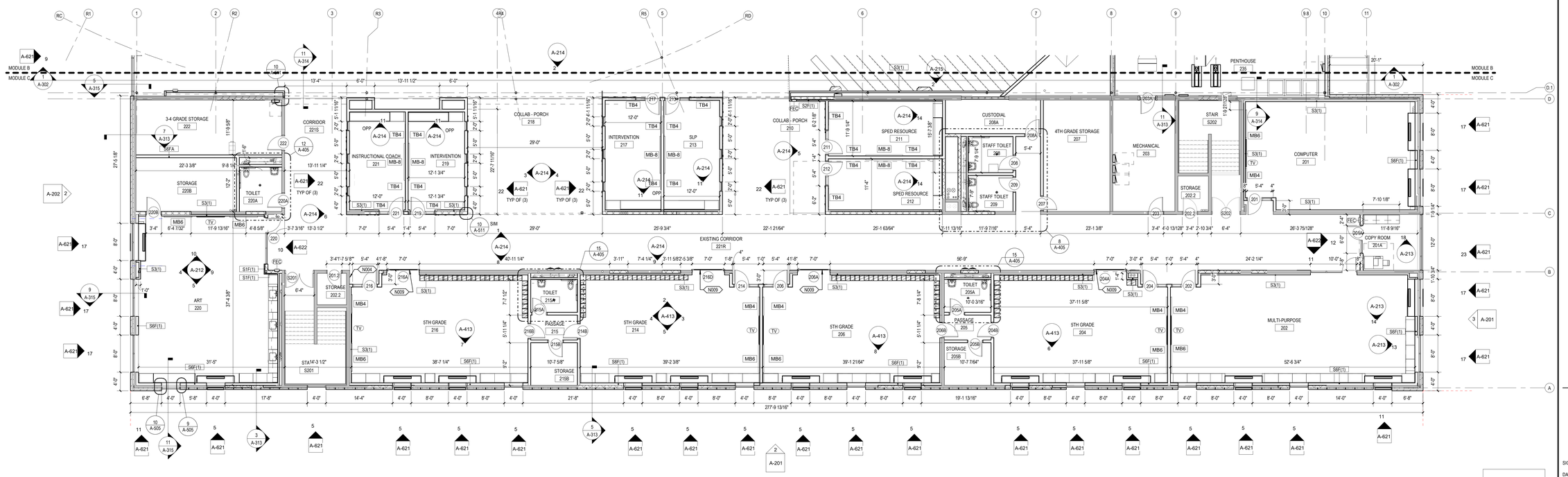
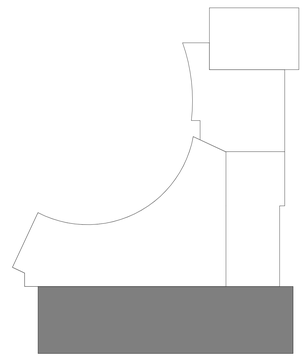


1 SECOND FLOOR PLAN - MODULE C
1/8" = 1'-0"



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SECOND FLOOR PLAN
MODULE C

A-102C

BIDDING

FINISH SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	STYLE / COLLECTION	COLOR / FINISH	SIZE	NOTES
CASEWORK						
PLAM-V	PLASTIC LAMINATE	WILSONART	MATTE FINISH	MANITOBA MAPLE MATTE		CASEWORK
PNL-BB	100 % BAMBOO PANEL WITH QUIETWALL BACKER CLASS B	PLYBOO	LIVING HINGE STYLE LH-56	AMBER PREFINISHED	1/2" X 47 3/4" X 95 3/4"	TREE TRUNK AND BRANCES - REFER TO ENLARGED PLANS.
SSF-1	SOLID SURFACE	CORIAN		ANTARCTICA	1/2" GAUGE	FIELD SOLID SURFACE
SSF-2	SOLID SURFACE	POLYGOOD		WHITE LOLLIPOP	0.47" GAUGE	ACCENT TRANSACTION COUNTER
CEILING						
ACT-1	SUSPENDED ACOUSTIC TILE	ARMSTRONG	SCHOOL ZONE FINE FISSURED	WHITE	2'X2'	SQUARE EDGE
ACT-2	SUSPENDED ACOUSTIC TILE	ARMSTRONG	ULTIMA HEALTHZONE	WHITE	2'X2'	SQUARE EDGE
ACT-3	DIRECT ATTACHED ACOUSTIC TILE	ARMSTRONG	INVISACOUSTICS	WHITE	2'x4' SEE PLAN FOR DIMENSIONS	SQUARE EDGE
ACT-4	TECTUM	ARMSTRONG	TECTUM	NATURAL	SEE PLAN FOR DIMENSIONS. LEAVES OF TREES.	SQUARE EDGE
ACT-5	SUSPENDED ACOUSTIC TILE	ARMSTRONG	ULTIMA HIGH NRC 0.85 NRC	WHITE	2'X2'	SQUARE EDGE WITH HOLD DOWN CLIPS
RS	ROLLER SHADE	DRAPER	E SCREEN 3% OPENESS ON ALL WINDOWS EXCEPT CLASSROOM DOOR SIDELITES ARE 0% E SCREEN OPENESS.	WHITE/PEARL	CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS	MANUAL ROLLER SHADE. CLUTCH OPERATED FLEXSHADE NEXD.
WDP	SUSPENDED WOOD LINEAR VENEER PANEL WITH BIOCOUSTIC BLACK INFILL. 15/16" BLACK GRID.	ARMSTRONG	WOODWORKS LINEAR VENEERED PANELS	TO BE SELECTED FROM MANUFACTURER STANDARD COLORS.	24"X96"X3/4", 3/4" REVEAL WITH INFILL	SQUARE EDGE
FLOOR						
CPTT-1	CARPET TILE	MILLIKEN	REVELATION PATHWAY	FOUNTAIN PW7279	50CM X 1M	OFFICES
CPTT-2	CARPET TILE	INTERFACE	EARTHED FACE COLLECTION EE710	103429 STRATA	1M X 1M	MEDIA CENTER
CPTT-3	CARPET TILE	MILLIKEN	REVELATION PATHWAY	FIELD	50cm X 1M	LEARNING STAIR
CPTT-4	CARPET TILE	INTERFACE	ETCHED AND THREADED COLLECTION	QUARTZ 103353	50cmX50cm	DISCOVERY LAB
CPTT-W	WALK OF CARPET	MILLIKEN	OBEX CUT X	DARK GRAY	50cmX50cm	ENTRY VESTIBULES
LVT-B	LUXURY VINYL TILE	MILLIKEN	LIGHT STITCH 5MM	LAMBDA	9.84" X 39.37"	SOLID BLUE. SECOND FLOOR ACCENT.
LVT-G	LUXURY VINYL TILE	MILLIKEN	LIGHT STITCH 5MM	LINEAR	9.84" X 39.37"	ACCENT SOLID GREEN. FIRST FLOOR.
LVT-GBL	LUXURY VINYL TILE	MILLIKEN	LUMENOLOGY LIGHT WASH 5MM	LIGHT	9.84" X 39.37"	GRAY AND BLUE MIX
LVT-GGR	LUXURY VINYL TILE	MILLIKEN	LUMENOLOGY LIGHT WASH 5MM	OPAQUE	9.84" X 39.37"	GREEN AND GRAY MIX
LVT-GY	LUXURY VINYL TILE	MILLIKEN	LUMENOLOGY LIGHT WASH 5MM	LUCENT	9.84" X 39.37"	GRAY AND YELLOW MIX
LVT-ST	LUXURY VINYL TILE STONE	INTERFACE	CLIFF 3.0	LIMESTONE	50cmX50cm	STONE LVT USED IN PORCH AREAS
RES-1	RESINOUS FLOORING	SHERWIN WILLIAMS	DECO FLAKE	CHINCHILLA	1/4" GAUGE	USE IN ALL RESTROOMS. COORDINATE FINISH FOR SLIP RESISTANCE WITH ARCHITECT.
RFT-1	RUBBER FLOOR TILE	NORA	NORAPLAN SENTICA	TO MATCH RSTRD-1	24"x24"X 0.8"	INSTALL IN ENCLOSED STAIR LANDINGS
RSR-1	RUBBER STAIR RISER	TARKETT				
RST-1	RUBBER STAIR TREAD					
RSTRD-1	RUBBER STAIR TREAD AND INTEGRAL RISER	AMERICAN BILTRITE	ABPURE STAIR TREAD WITH HAMMERED	OPM-32 / APPALACHIAN TRAIL	3.5MM GAUGE	
SC	SEALED CONCRETE					REFER TO SPECIFICATIONS FOR SEALER.
SPRT-F	GYM SPORTS FLOORING	TARKETT SPORTS FLOORING	OMNISPORTS MULTI-USE	GOLDEN MAPLE		COORDINATE GAME LINE LAYOUT AND COLOR WITH ARCHITECT.
PAINT						
PNT-1	PAINT - FIELD	SHERWIN WILLIAMS		ALABASTER		
PNT-A	PAINT - ACCENT	SHERWIN WILLIAMS		TO BE SELECTED FROM 5 DIFFERENT COLORS.	REFER TO FINISH WALL PLAN FOR PNT-A LOCATIONS.USE MATCHING RB-A COLOR FROM 5 SELECTED RUBBER BASES.	TO BE SELECTED FROM 5 DIFFERENT COLORS
PNT-B	PAINT - ACCENT	SHERWIN WILLIAMS		BLUE		
PNT-BL	PAINT - CEILING ACCENT	SHERWIN WILLIAMS	FLAT PAINT	BLACK		PAINT EXPOSED CEILING BEHIND ALL CEILING CLOUDS IN CORRIDOR 113 AND CORRIDOR 121S
PNT-C	PAINT - CEILING	SHERWIN WILLIAMS		PURE WHITE		
PNT-G	PAINT GREEN	SHERWIN WILLIAMS		AGATE GREEN		
PNT-G1	PAINT - BATHROOM DOOR AND FRAME	SHERWIN WILLIAMS		TBD		
PNT-G2	PAINT - BATHROOM DOOR AND FRAME	SHERWIN WILLIAMS		TBD		
PNT-G3	PAINT - BATHROOM DOOR AND FRAME	SHERWIN WILLIAMS		TBD		
PNT-G4	PAINT - BATHROOM DOOR AND FRAME	SHERWIN WILLIAMS		TBD		
PNT-G5	PAINT - BATHROOM DOOR AND FRAME	SHERWIN WILLIAMS		TBD		
PNT-GL	PAINT GREEN LIGHT	SHERWIN WILLIAMS				
PNT-Y1	PAINT - YELLOW 1	SHERWIN WILLIAMS		TBD		
PNT-Y2	PAINT - YELLOW 2	SHERWIN WILLIAMS		TBD		
PNT-Y3	PAINT - YELLOW 3	SHERWIN WILLIAMS		TBD		
PNT-Y4	PAINT - YELLOW 4	SHERWIN WILLIAMS		TBD		
PNT-Y5	PAINT - YELLOW 5	SHERWIN WILLIAMS		TBD		
WALL						
C1	ACOUSTIC WALL PANEL	GUILDFORD OF MAINE		FR701 ULTRAMARINE	REFER TO ELEVATIONS 2" THICK PANELS	PANELS IN GYMNASIUM
C2	ACOUSTIC WALL PANEL	GUILDFORD OF MAINE		FR701 COBALT	REFER TO ELEVATIONS 2" THICK PANELS	PANELS IN GYMNASIUM
C3	ACOUSTIC WALL PANEL	GUILDFORD OF MAINE		FR701 BLUE PAPIER	REFER TO ELEVATIONS 2" THICK PANELS	PANELS IN GYMNASIUM
C4	ACOUSTIC WALL PANEL	GUILDFORD OF MAINE		FR701 BLUE SKY	REFER TO ELEVATIONS 2" THICK PANELS	PANELS IN GYMNASIUM
C5	ACOUSTIC WALL PANEL	GUILDFORD OF MAINE		FR701 BLUE CRYSTAL BLUE	REFER TO ELEVATIONS 2" THICK PANELS	PANELS IN GYMNASIUM
CG-1	FIELD CORNER GAURDS	INPRO	160	MATCH ADJACENT WALL COLOR	48"D X 2"D	USE AT ALL OUTSIDE CORNERS OF GYPSUM WALL UNLESS NOTED OTHERWISE.
CG-2	USE WITH WC-T IN DISCOVERY LAB.	FRY REGLET	J TRIM	STAINLESS STEEL	1 1/2"D	MITER CORNERS , NO ROUGH OR SHARP EDGES.
FLT-1	100% WOOL DESIGN FELT + AKUSTIKA 10 SUBSTRATE	FILZFELT	MURO PLUS	SELECTED FROM 3 COLORS 33% EACH.	VARIES. 1'6" X 1'0" X THICKNESS 1", 2" AND 3"	USED ON EXTERIOR OF TREEHOUSE INSTALL WITH Z-CLIPS PROVIDED.
GWC-1	TRANSLUCENT GRAPHIC FILM	3M		CLEAR WITH CUSTOM DIGITAL PRINT	REFER TO ELEVATIONS 2" THICK PANELS	WILL BE APPLIED TO CLASSROOM GARAGE DOORS. ONE GRAPHIC FOR FIRST FLOOR AND ANOTHER GRAPHIC FOR THE SECOND FLOOR
MB-1		FRY REGLET	MWCB100400	POWDER COAT FINISH	4"	MILLWORK CHANNEL BASE WITH RETURN KEY
PTW-1	PORCELAIN TILE WALL	DALTILE	POLARIS	GLOSS WHITE	10" X 14" X 5/16"	FIELD WALL TILE IN RESTROOMS
PTW-1A	CERAMIC TILE WALL	URBAN COAST TILE	MALIBU	GREEN ZUMA	6" X 6" FINISH GLOSS	SINGLE USE BATHROOMS ACCENT BAND
PTW-2	CERAMIC TILE WALL	GARDEN STATE TILE	FORMA FOLAGE	GREEN ZUMA	16" X 32" FINISH GLOSS	BEHIND WATER FOUNTAINS AND GROUPED BATHROOMS
RB-1	RUBBER BASE FIELD USE WITH PNT-1	TARKETT		TO BE SELECTED FROM MANUFACTURER STANDARD COLORS.	4"H	REFER TO FINISH NOTES FOR STRAIGHT OR COVED.
RB-A	RUBBER BASE	TARKETT	REFER TO FLOOR FINISH NOTES 21 AND 22.	TO BE SELECTED FROM 5 DIFFERENT COLORS TO MATCH ACCENT PAINT COLOR PNT-A	4"H	REFER TO FINISH PLANS FOR LOCATIONS
RB-B	RUBBER BASE FIELD USE WITH PNT-B	TARKETT				
RB-G	RUBBER BASE FIELD USE WITH PNT-G	TARKETT				
RB-GYM	RUBBER BASE FIELD USE WITH SPRT-F	TARKETT	COVE BASE	BLACK	4"	
RBSH-R	RUBBER SHEET PRODUCT WITH HEAT WELDING ROD	NORA	NORAPLAN SENTICA	TO BE SELECTED FROM ALL	0.08" X 48"W	FLOORING ON ALL RAMPS
RES-B	RESINOUS FLOORING BASE	SHERWIN WILLIAMS		CHINCHILLA	4" INTEGRAL COVE BASE	USE WITH RES-1. PROVIDE A BRUSHED ALUMINUM TRIM PIECE TO FINISH OFF THE TOP OF THE BASE.
RP-1	RESIN PANEL	3-FORM	DASH, CLASS A	WHITE	REFER TO ELEVATIONS FOR LOCATIONS. SIZE 2'X4' WITH BRUSHED ALUMINUM CONTINOUS TRIM. DESIGN INTENT FRY REGLET MILLWORK CHANNEL L ANGLE W/RETURN KEY.	EACH 4'X8'X 3/16" PANEL WILL PROVIDE A QTY OF 4 ENTRY SIGNAGE PANELS. EVERY CLASSROOM WILL HAVE ONE UNLESS NOTED OTHERWISE. PROVIDE A CONTINOUS ALUMINUM TRIM PIECES AT ALL EXPOSED EDGES.
TB	TACK BOARD	FORBO	BULLETIN BOARD	TO BE SELECTED FROM 4 DIFFERENT COLORS	REFER TO ELEVATIONS 1/4" THICK	
TB-BR	TACK BOARD	FORBO	BULLETIN BOARD	BROWN RICE	REFER TO ELEVATIONS 1/4" THICK	NEUTRAL
TB-GR	TACK BOARD	FORBO	BULLETIN BOARD	BABY LETTUCE	REFER TO ELEVATIONS 1/4" THICK	
TB-N	TACK BOARD	WOLF GORDON	BULLETIN BOARD	NATURAL	REFER TO ELEVATIONS 1/4" THICK	CORK 339
TB-Y	TACK BOARD	FORBO	BULLETIN BOARD	FRESH PINEAPPLE	REFER TO ELEVATIONS 1/4" THICK	
VWC-1	VINYL WALL COVERING	KOROSEAL	DIGITAL LAB	DIGITAL IMAGE	REFER TO ELEVATIONS	ART WORK WILL BE PROVIDED BY OWNER. REFER TO FLOORPLAN FOR QTY. EVERY LOCATION WILL BE A DIFFERENT DIGITAL PRINT.
VWC-2	DECORATIVE FROSTED WINDOW FILM	3M	CUSTOM PRINT	DIGITAL IMAGE	REFER TO ELEVATIONS	ART WORK WILL BE PROVIDED BY OWNER. THIS WILL BE INSTALLED ON ALL GARAGE DOORS. FIRST FLOOR WILL BE A CUSTOM GRASSES GRAPHIC AND SECOND FLOOR WILL BE CLOUDS.
WC-T	ARTIFICIAL BOXWOOD WALL	ARTIFICIAL PLANTS UNLIMITED		GREEN	REFER TO ELEVATIONS 1.25" THICK PANELS	USE WITH CG-2 AT ALL EXPOSED EDGES. PAINT WALLS BLACK BEHIND ALL PANELS.
WP-1	WALL PROTECTION	INPRO	PALLADIUM RIGID SHEET	MATCH FIELD PAINT FROM STANDARD COLOR SELECTIONS.	REFER TO ELEVATIONS	3' AFF ON ALL GYPSUM CORRIDOR WALLS UNLESS NOTED OTHERWISE.

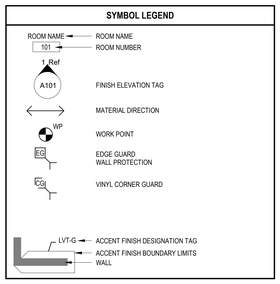
FINISH LEGEND

ACT-1		WP-1
ACT-2	LVT-ST	TB-N
ACT-3	MB-1	VWC-1
ACT-4	PLAM-V	VWC-2
	PNL-BB	WDP
ACT-5	PTW-1	WC-T
CPTT-W	PTW-1A	GWC-1
CPTT-1	PTW-2	RS
CPTT-2	RES-1	RB-1
CPTT-3	RES-B	RB-G
CPTT-4	RFT-1	RB-B
C1	RP-1	RB-A
C2	RSR-1	FLT-1
C3	RSTRD-1	RB-GYM
C4	RST-1	TB
C5	SSF-1	
CG-1	SSF-2	
CG-2	TB-Y	
LVT-G	TB-GR	
LVT-GGR	TB-BR	
LVT-B	RBSH-R	
LVT-GBL	SPRT-F	
LVT-GY		

PAINT LEGEND

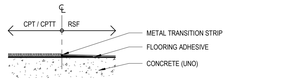
PNT-1	PNT-G	PNT-GL
PNT-C	PNT-B	PNT-BL
PNT-G1	PNT-G2	PNT-G3
PNT-G4	PNT-G5	PNT-A
PNT-Y1	PNT-Y2	PNT-Y3
PNT-Y4	PNT-Y5	

SYMBOL LEGEND

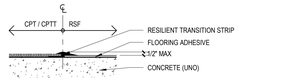


GENERAL NOTES: THRESHOLDS

1. ALL ALUMINUM THRESHOLDS TO BE FIRE RATED (FR) & CONFORM TO UL 10C.
2. USE ALUMINUM THRESHOLD UNDER ALL RATED DOORS (UNLESS FLOOR IS EXPOSED CONCRETE).
3. ALL ALUMINUM THRESHOLDS TO BE ANCHORED TO CONCRETE WITH FLAT HEAD METAL (FINISH TO MATCH ALUMINUM) EXPANSION ANCHORS.
4. RESILIENT FLOORING > VCT OR RUBBER OR LINOLEUM FLOORING
5. CARPET > CARPET OR CARPET TILE
6. TILE = PORCELAIN OR CERAMIC OR MOSAIC TILE



3 CARPET / RESILIENT - METAL TRANSITION
3" = 1'-0"



4 CARPET / RESILIENT - METAL TRANSITION
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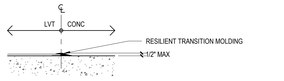
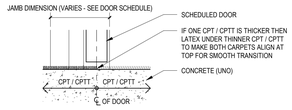
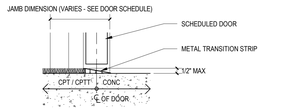


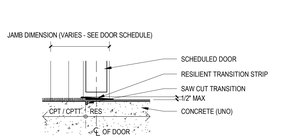
5 LVT / CONCRETE - RESILIENT TRANSITION
3" = 1'-0"



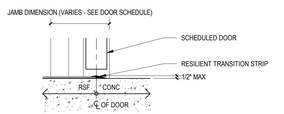
6 CARPET / CARPET TRANSITION
3" = 1'-0"



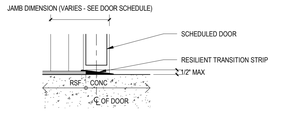
7 CARPET / CONCRETE - RESILIENT TRANSITION
3" = 1'-0"



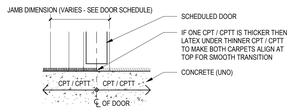
9 CARPET / RESINOUS - RESILIENT TRANSITION
3" = 1'-0"



10 RESILIENT / CONCRETE - RESILIENT TRANSITION
3" = 1'-0"



11 RESILIENT / CONCRETE - RESILIENT TRANSITION
3" = 1'-0"



1 CARPET / CARPET TRANSITION
3" = 1'-0"

GENERAL FINISH NOTES

1. REFER TO THE FINISH PLAN LEGEND FOR MATERIAL AND COLOR INFORMATION. ALSO REFER TO THE PROJECT MANUAL.
2. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND CEILING HEIGHTS.
3. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE MANUAL WINDOW SHADE SYSTEM AT ALL NEW EXTERIOR WINDOWS EXCEPT THOSE IN CORRIDORS AND STAIRS AND UNLESS NOTED OTHERWISE.
5. PROVIDE MANUAL WINDOW SHADE SYSTEM AT ALL SIDELIGHTS AND INTERIOR WINDOWS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE SIZE OF WINDOW TREATMENT BASED ON THE OPENING SIZE.
7. PROVIDE 48" HIGH PLASTIC CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW GYPSUM BOARD PARTITIONS UNLESS NOTED OTHERWISE. CORNER GUARD TO MATCH ADJACENT WALL FINISH TO BE SELECTED FROM ALL STANDARD COLORS.
8. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
9. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
10. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.
11. IN ALL RENOVATED AREAS ALL WALLS SHALL BE PAINTED PNT-1 U.N.O. ALL NEW WALLS SHALL BE PAINTED PNT-1 UNLESS NOTED OTHERWISE.
12. BRICK WALLS SHALL NOT BE PAINTED. U.N.O.
13. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLANS FOR PORCELAIN TILE WALL PATTERN INFORMATION.
14. USE VERTICAL METAL EDGE TRANSITIONS IN PORCELAIN TILE WALL OUTSIDE CORNERS AND/OR IN PORCELAIN TILE WALL EXPOSED EDGES.
15. DO NOT INSTALL RUBBER BASE ON TOP OF PORCELAIN TILE WALL. (U.N.O.)
16. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION.
17. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR, U.N.O. IN FINISH DRAWINGS
18. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.
19. ELECTRICAL PANELS, MECHANICAL GRILLES, LOUVERS, AND ANY OTHER MISCELLANEOUS, UNFINISHED ITEMS INSTALLED IN WALL SURFACES OF CORRIDORS AND OCCUPIED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
20. METAL ACCESS LADDERS TO BE PAINTED PNT-A U.N.O.
21. REFER TO FINISH PLANS FOR PLASTIC LAMINATE (PLAM) AND SOLID SURFACE (SSF) COLOR DESIGNATIONS
22. 4"H STRAIGHT RUBBER BASE TO BE USED FOR ALL CARPET TILE LOCATIONS (U.N.O.)
23. 4"H COVED RUBBER BASE TO BE USED FOR ALL RESILIENT FLOORING LOCATIONS (U.N.O.)
24. INSTALL RUBBER COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.)
25. ALL SEALED CONCRETE FLOORS SHALL HAVE RUBBER BASE (U.N.O.).
26. CARPET TILE (CPTT) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.
27. REFER TO SPECIFICATIONS FOR RESILIENT TRANSITIONS (RT) PROFILES.
28. ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
29. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
30. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
31. PROVIDE VAPOR BARRIER SEALER ON CONCRETE SURFACES AT ALL AREAS TO RECEIVE CARPET AND/OR RESILIENT FLOORING.
32. PRIOR TO THE INSTALLATION OF NEW ADHESIVES OVER CONCRETE SUBSTRATES PRIOR TO THE INSTALLATION OF FLOOR COVERING SYSTEMS. APPLY A LIGHT-COLORED HIGH STRENGTH ACRYLIC POLYMER COMPOUND (AQUEOUS FLOOR SEALER) TO ISOLATE AND CUT BACK OLD ADHESIVE FLOOR RESIDUES. ACRYLIC POLYMER COMPOUND TO BE SOLVENT FREE AND TO CONTAIN "ZERO" CALCULATED VOC'S. BASIS OF DESIGN XL BRANDS "TRISEAL". FOLLOW MANUFACTURERS RECOMMENDATION FOR INTENDED APPLICATION.
33. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
34. WHERE "PATCH AND REPAIR" IS REQUIRED DUE TO NEW CONSTRUCTION IN EXISTING AREAS WHERE NO WORK IS SCHEDULED TO BE PERFORMED "PATCH AND REPAIR" FINISHES TO MATCH ADJACENT EXISTING FINISH, COLOR, TEXTURE AND SHEEN.
35. IN ALL EXISTING AREAS SCHEDULED TO BE RENOVATED, REPLACE ALL EXISTING ELECTRICAL WALL COVER PLATES AND DEVICES. ALL NEW ELECTRICAL COVER PLATES AND DEVICES TO BE STAINLESS STEEL.
36. ANY DAMAGE TO EXISTING SURFACES DUE TO SCHEDULED DEMOLITION AND/OR TO ACCOMMODATE DIVISION 22, 23, 26, 27 & 28 SCOPE OF WORK INCLUDED IN THIS PACKAGE SHALL BE REPAIRED, THOUGH NOT EXPRESSLY NOTED "PATCH AND REPAIR". IT IS INTENDED THAT THE WORK BE PERFORMED.
37. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.
38. REFER TO SPECIFICATIONS FOR ELEVATOR FINISHES.

GENERAL FLOOR FINISH NOTES

1. AT ALL AREAS OF NEW FLOORING:
   A. PROVIDE RUBBER TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS.
   B. PROVIDE 4-INCH RUBBER BASE ON ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS.
   C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   D. PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTRATE IN ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS PRIOR TO BEGINNING ANY WORK.
2. AT ALL AREAS OF NEW FLOORING IN EXISTING BUILDING:
   A. EXISTING FLOORING AS INDICATED ON DRAWINGS MAY BE ASBESTOS CONTAINING AND SHALL BE REMOVED UNDER SEPARATE CONTRACT.
   B. SHOT BLAST EXISTING CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE RESULTING FROM DEMOLITION PRIOR TO BEGINNING ANY WORK.
   D. PROVIDE CEMENTITIOUS SELF-LEVELING FLOORING UNDERLAYMENT. PROVIDE TWO COATS WITH A COMBINED AVERAGE THICKNESS OF ¼-INCH.
   E. UNDERCUT EXISTING WOOD DOORS LOCATED ON OR ADJACENT TO AREAS OF NEW FLOORING AS REQUIRED TO ENSURE PROPER OPERATION OF THE DOOR(S).
   F. EXISTING THRESHOLDS TO REMAIN SHALL BE REMOVED AND REINSTALLED SO NEW FLOORING CAN BE INSTALLED UNDER THE EDGE OF THRESHOLDS.
3. PROVIDE LVT FLOOR SYSTEM IN ELEVATOR CAB.
4. AT EVERY STAIR GOING DOWN FROM FLOOR LEVELS PROVIDE 36" WIDE RUBBER TACTILE WARNING STRIP FOR FULL WIDTH OF STAIR. TACTILE WARNING STRIP NOT REQUIRED AT INTERMEDIATE LANDINGS (U.N.O.).

GENERAL PAINTING NOTES

1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
   A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION (U.N.O.).
   B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PAINTED.
   C. SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED PAINTED.
2. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
   A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.
   B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT.
   C. AT REPAIRS AND UNPAINTED GYPSUM BOARD AND/OR PLASTER PROVIDE PRIMER AND TWO FINISH COATS OF PAINT.
   D. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3. IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSED MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.
4. AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL SIGHT-EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF DECK, STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC.
5. ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH (U.N.O.).
6. AT STEEL DOORS AND STEEL FRAMES:
   A. INTERIORS TO BE PAINTED PNT-1 WITH SEMI-GLOSS FINISH (U.N.O.).
   B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITECT WITH SEMI-GLOSS FINISH (U.N.O.).

GENERAL CEILING FINISH NOTES

1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILING PLANS FOR ACT INFORMATION.
3. PAINT ALL EXPOSED CEILINGS , PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT LIMITED TO, FRAMING, DECK, DUCTWORK, PIPING & CONDUIT. DO NOT PAINT H, V, E, FA, P LABELS, MOVING PARTS, OR COMPONENTS THAT ARE EXPECTED TO REMAIN UNPAINTED, UNLESS NOTED OTHERWISE.
4. ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 **(IPS-LF)** (U.N.O.) ON CEILING AND/OR FINISH PLANS.
5. GYPSUM BOARD CEILINGS IN SHOWER AREAS AND ENTRY VESTIBULES TO BE PAINTED PNT-1 (IPS-B)
6. IN ALL MAIN CUSTODIAL AREAS AND MECHANICAL ROOMS; STEEL, DECKING AND EXPOSED STRUCTURE AND DUCTWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED (U.N.O.) IN FINISH PLANS

INTERIOR PAINT SYSTEM

IPS-LF	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, FLAT
IPS-LE	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, EGGSHELL
IPS-LS	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, SEMI-GLOSS
IPS-LF-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, FLAT.
IPS-LE-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, EGGSHELL
IPS-LS-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, SEMI-GLOSS
IPS-D	DRY FALL, WATER-BASED, FLAT
IPS-AF	ALKYD, WATER-BASED, FLAT
IPS-AE	ALKYD, WATER-BASED, EGGSHELL
IPS-AS	ALKYD, WATER-BASED, SEMIGLOSS
IPS-AG	ALKYD, WATER-BASED, GLOSS
IPS-ES	EPOXY-MODIFIED LATEX, INTERIOR, SEMI-GLOSS
IPS-MC	MULTICOLOR INTERIOR PAINT

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FINISH LEGEND

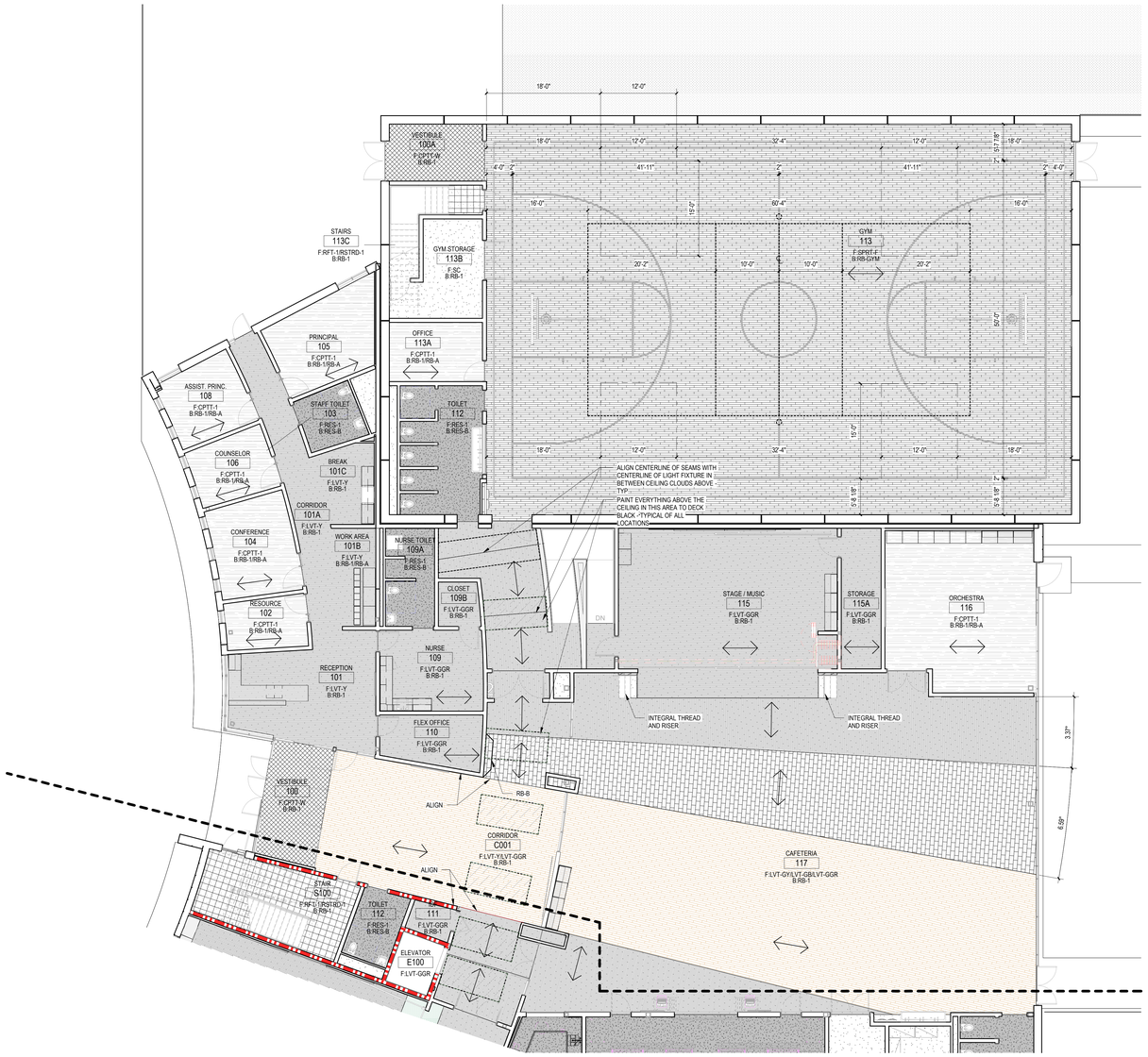
ACT-1		WP-1
ACT-2	LVT-ST	TB-N
ACT-3	MB-1	VWC-1
ACT-4	PLAM-V	VWC-2
	PNL-BB	WDP
ACT-5	PTW-1	WC-T
CPTT-W	PTW-1A	GWC-1
CPTT-1	PTW-2	RS
CPTT-2	RES-1	RB-1
CPTT-3	RES-B	RB-G
CPTT-4	RFT-1	RB-B
C1	RP-1	RB-A
C2	RSR-1	FLT-1
C3	RSTRD-1	RB-GYM
C4	RST-1	TB
C5	SSF-1	
CG-1	SSF-2	
CG-2	TB-Y	
LVT-G	TB-GR	
LVT-GGR	TB-BR	
LVT-B	RBSH-R	
LVT-GBL	SPRT-F	
LVT-GY		

GYMNASIUM STRIPING LEGEND

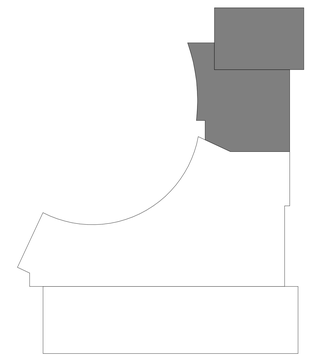
- PRIMARY BASKETBALL COURT STRIPING - 2"
- PRIMARY VOLLEYBALL COURT STRIPING - 2"
- SECONDARY BASKETBALL COURT STRIPING - 1"
- RECESSED VOLLEYBALL FLOOR SLEEVE

PAINT LEGEND

PNT-1	PNT-G	PNT-GL
PNT-C	PNT-B	PNT-BL
PNT-G1	PNT-G2	PNT-G3
PNT-G4	PNT-G5	PNT-A
PNT-Y1	PNT-Y2	PNT-Y3
PNT-Y4	PNT-Y5	



1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



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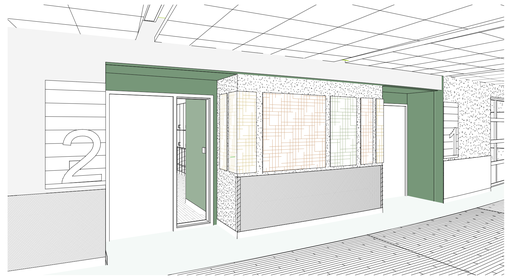
REVIEWED BY	ZC

FIRST FLOOR FINISH FLOOR PLAN - MODULE A

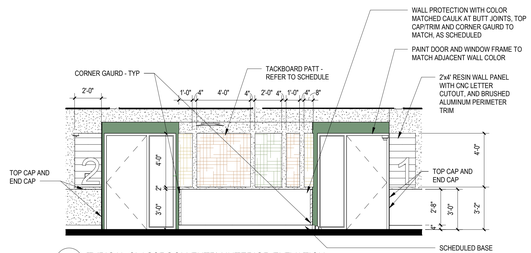
AF101A

BIDDING

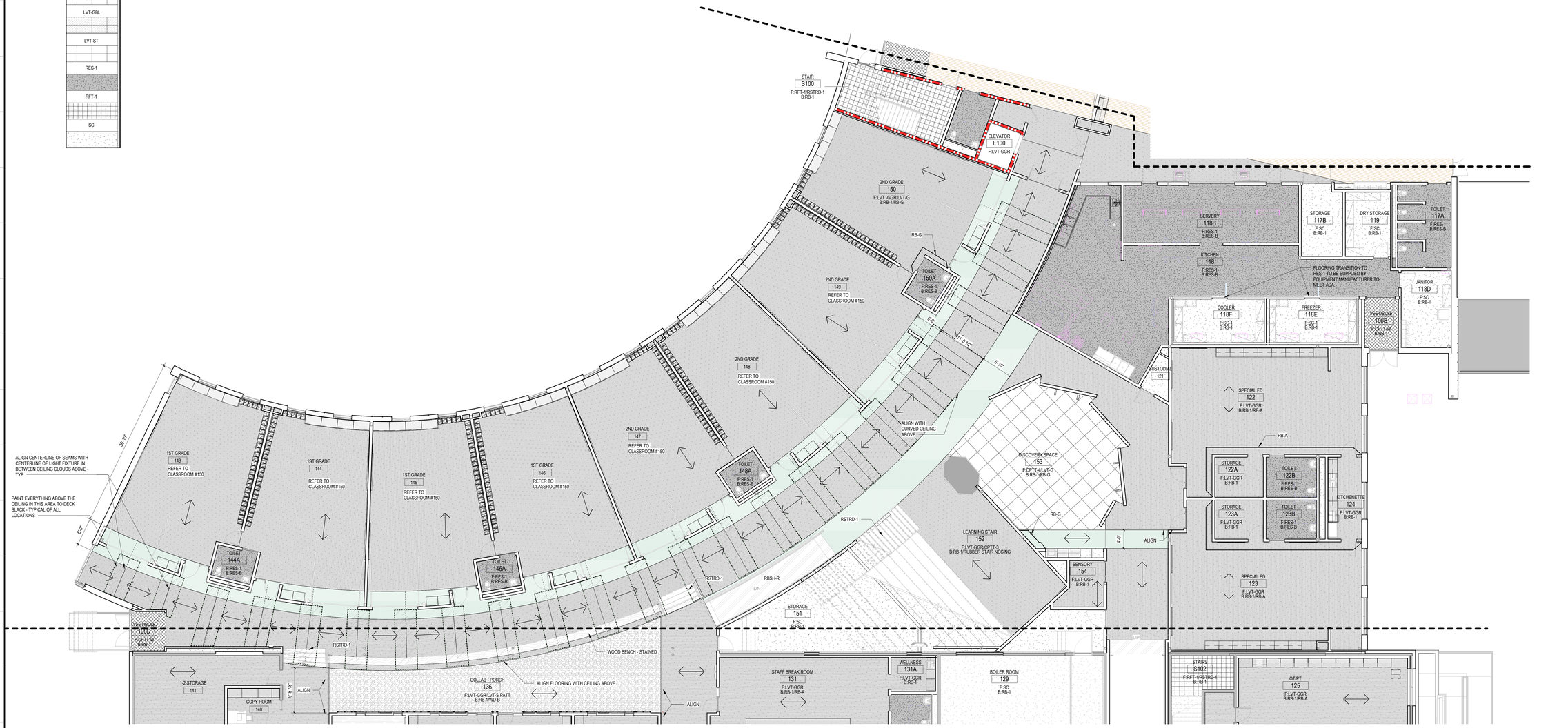
FINISH LEGEND
CPTT-W
CPTT-1
CPTT-2
CPTT-3
CPTT-4
LVT-B
LVT-G
LVT-GY
LVT-GGR
LVT-GBL
LVT-ST
RES-1
RFT-1
SC



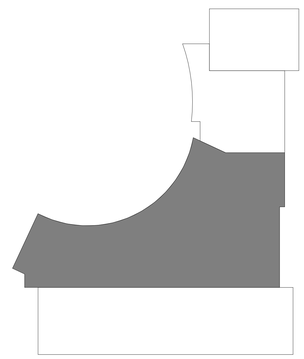
4 TYPICAL CLASSROOM ENTRY



3 TYPICAL CLASSROOM ENTRY INTERIOR ELEVATION
1/4" = 1'-0" A-101B



1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



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FIRST FLOOR FINISH FLOOR PLAN - MODULE B

AF101B

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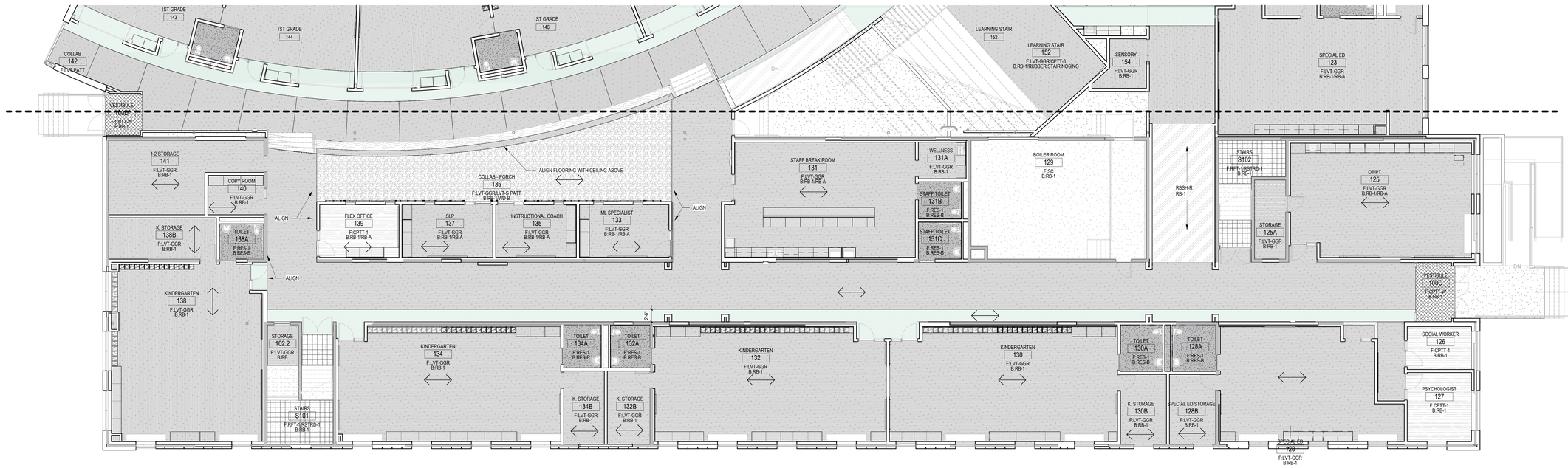

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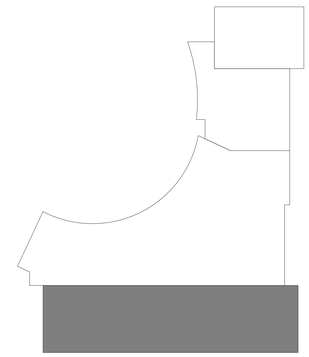

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FIRST FLOOR FINISH FLOOR PLAN - MODULE C

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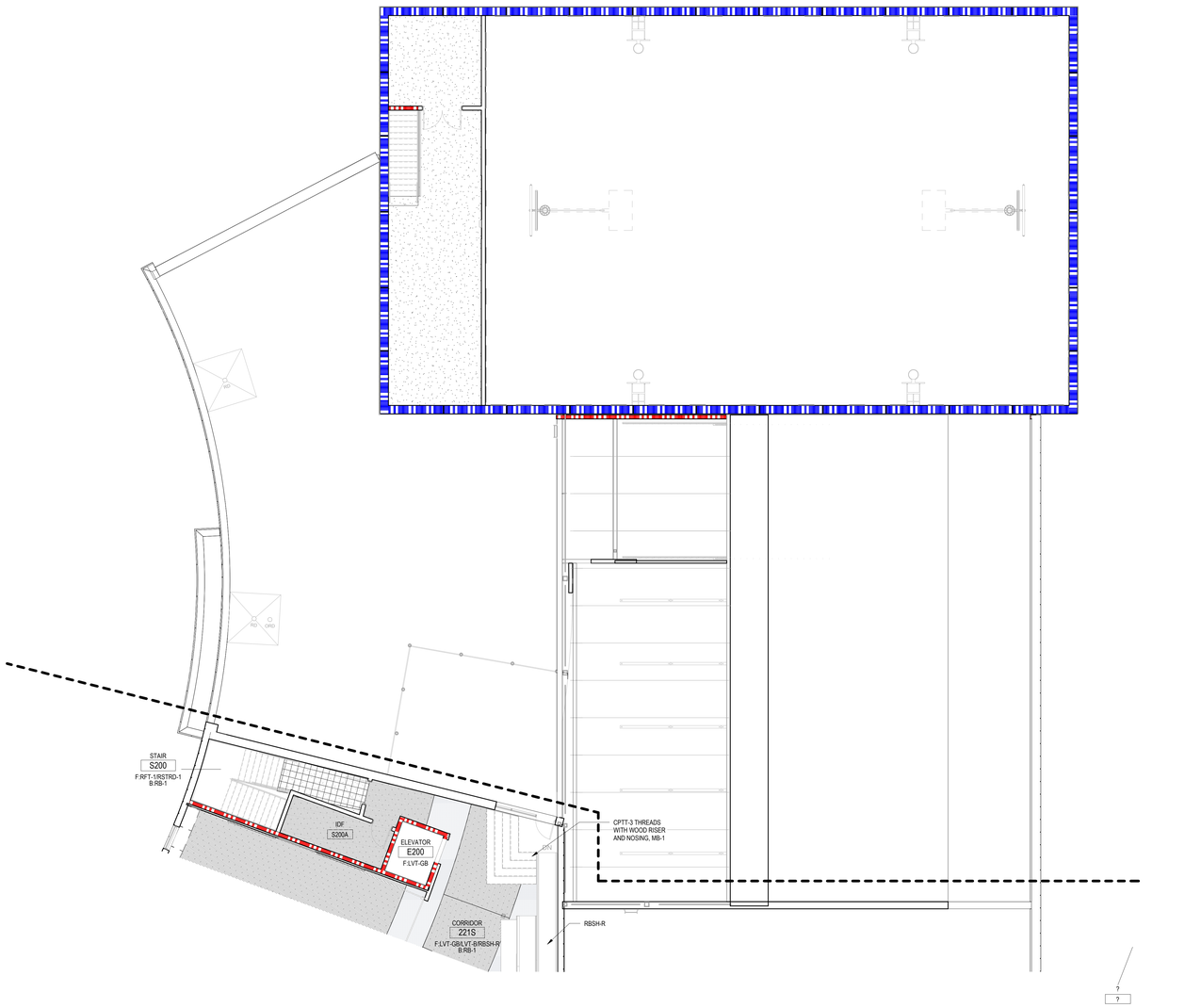
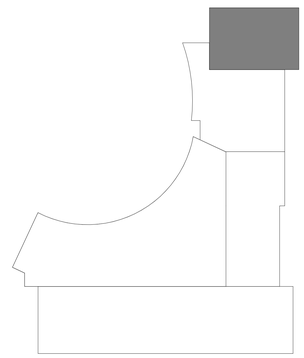


1 SECOND FLOOR FINISH PLAN - MODULE A
1/8" = 1'-0"



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SECOND FLOOR FINISH FLOOR PLAN - MODULE A

AF102A

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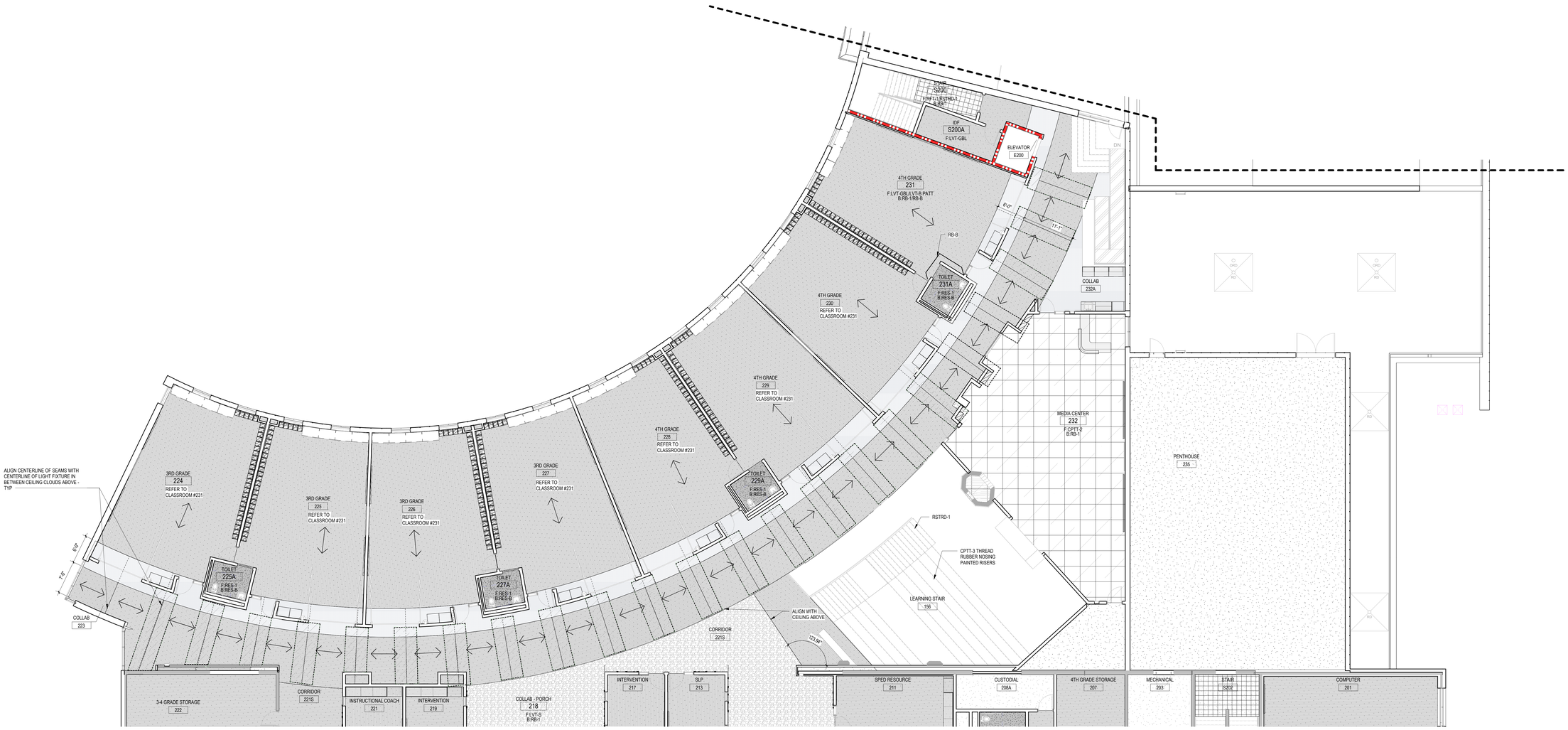
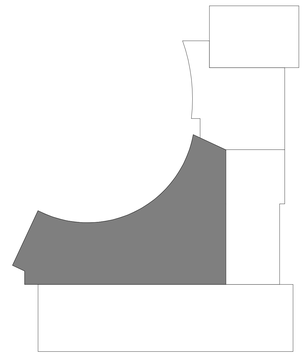


1 SECOND FLOOR FINISH PLAN - MODULE B
1/8" = 1'-0"



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LINCOLN - IRVING ADDITION AND RENOVATION

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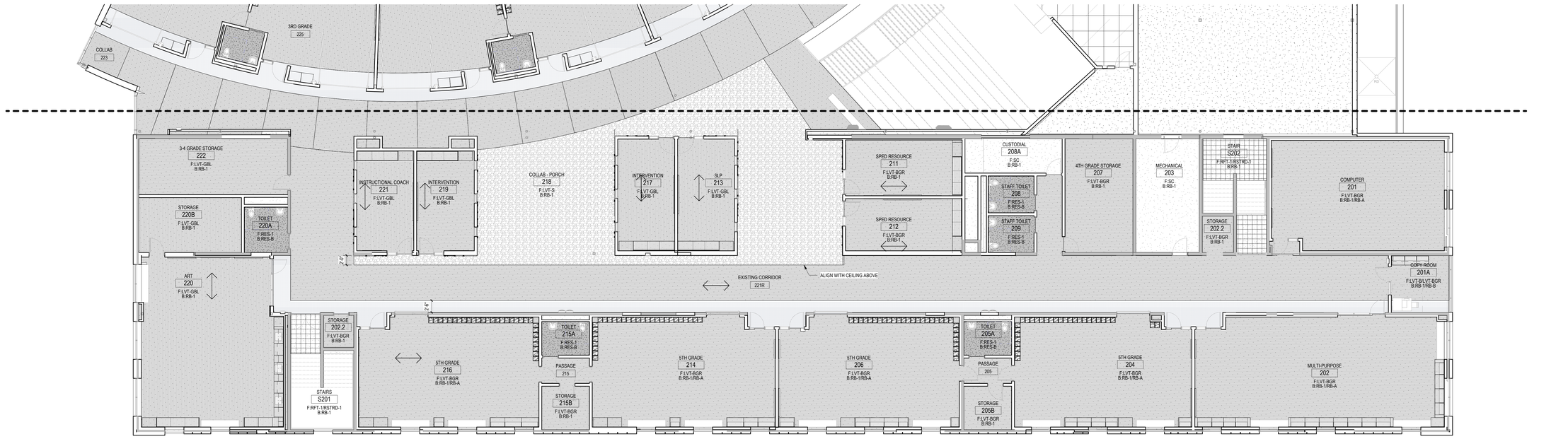
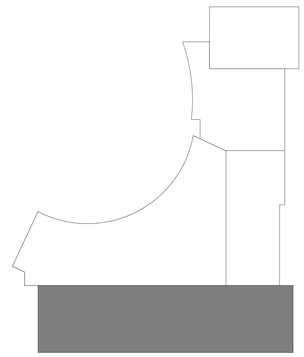
SECOND FLOOR FINISH FLOOR PLAN - MODULE B

AF102B

BIDDING



1 SECOND FLOOR FINISH PLAN - MODULE C
1/8" = 1'-0"



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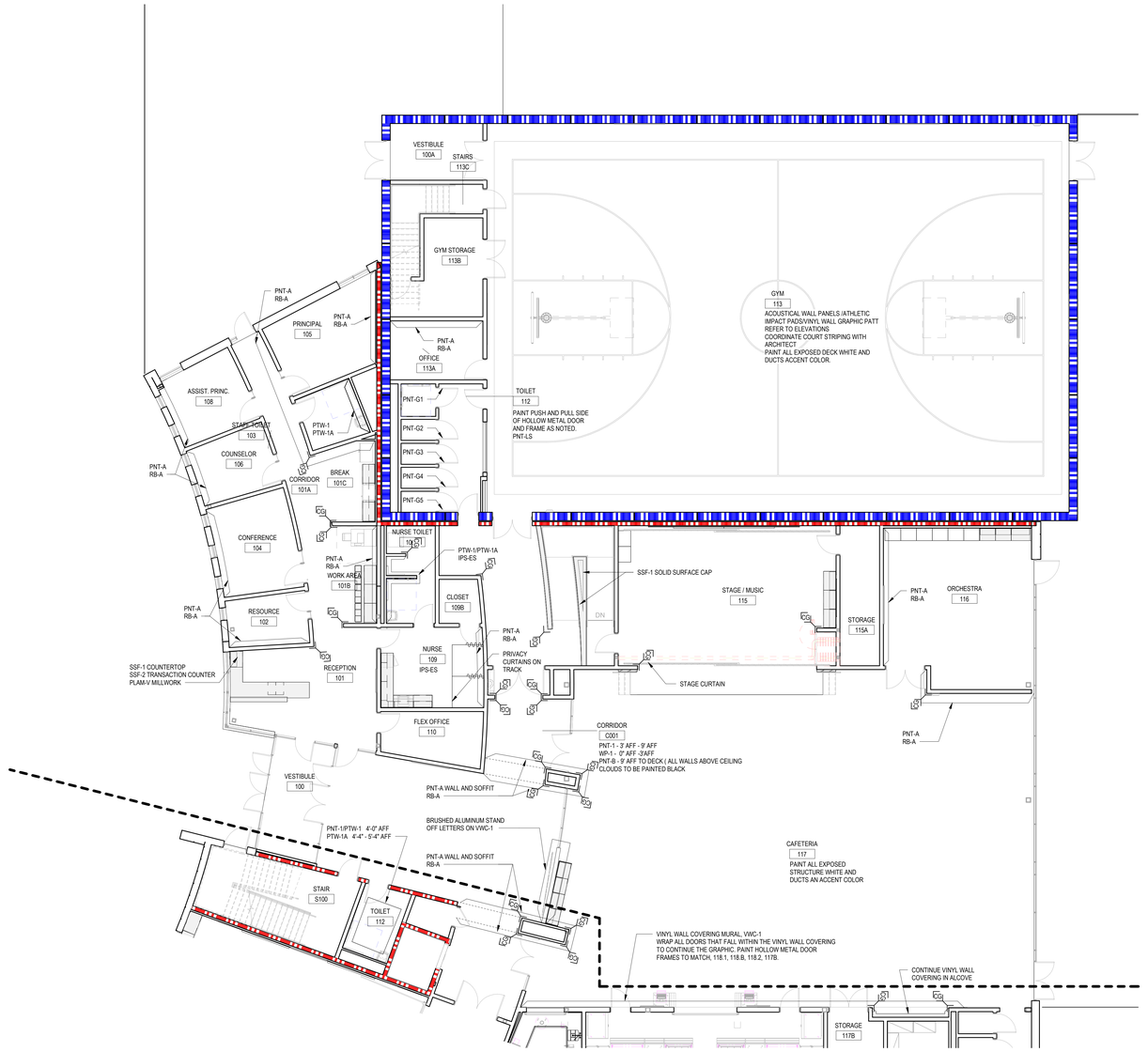
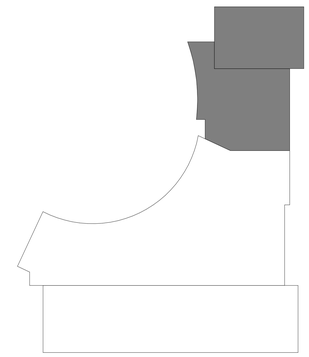
SECOND FLOOR FINISH FLOOR PLAN - MODULE C

AF102C

BIDDING



1 FIRST FLOOR WALL FINISH PLAN - MODULE A
1/8" = 1'-0"



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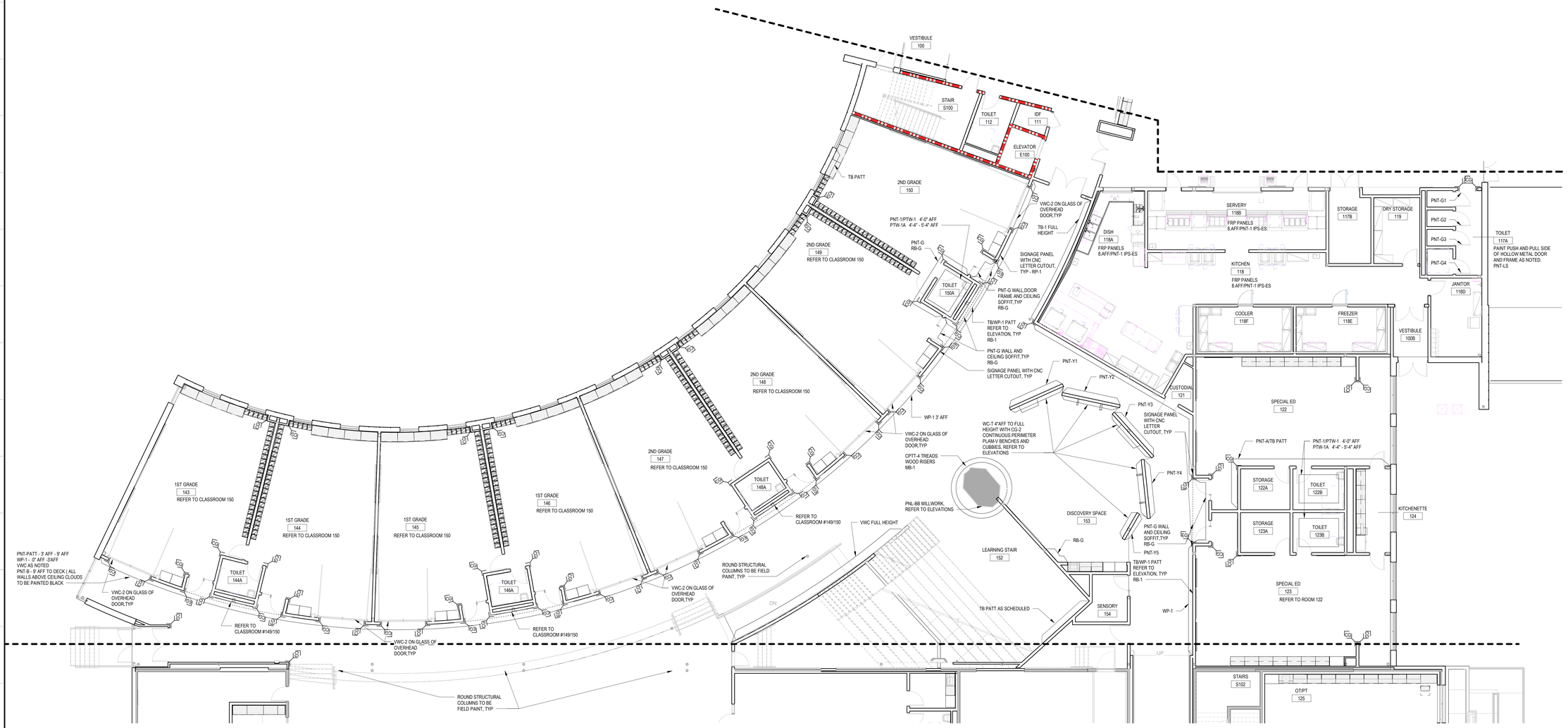
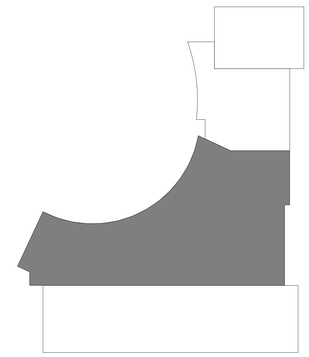
FIRST FLOOR FINISH WALL PLAN - MODULE A

AF111A

BIDDING



1 FIRST FLOOR WALL FINISH PLAN - MODULE B
1/8" = 1'-0"



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FIRST FLOOR FINISH WALL PLAN - MODULE B

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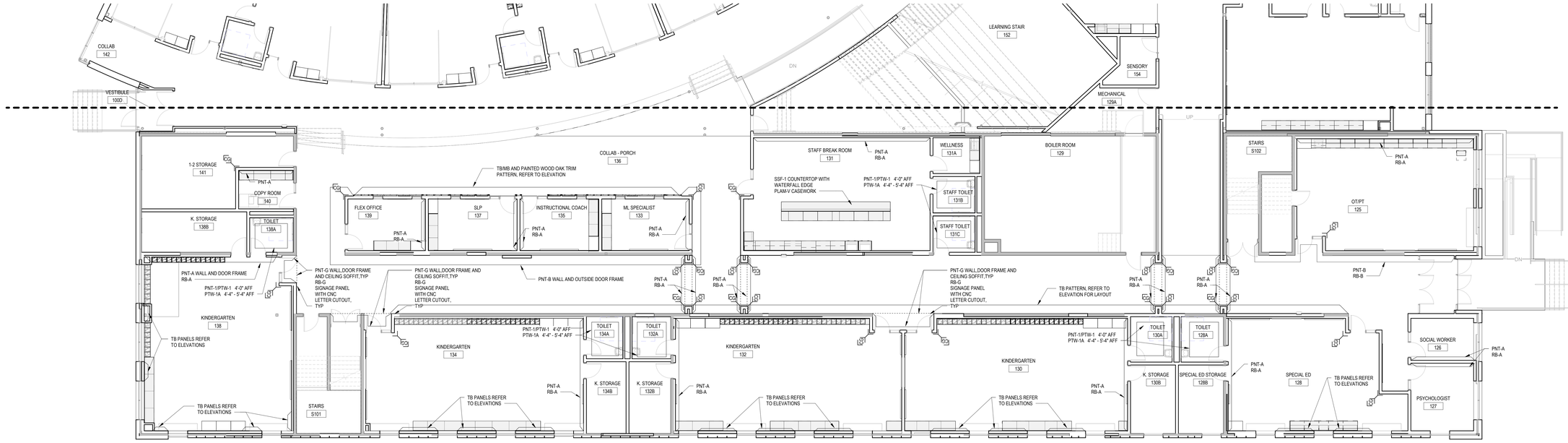
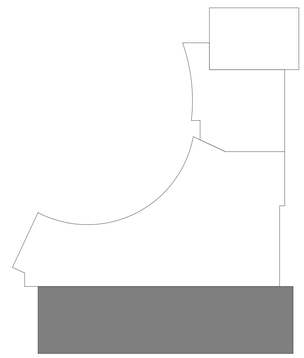


1 FIRST FLOOR WALL FINISH PLAN - MODULE C
1/8" = 1'-0"



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FIRST FLOOR FINISH WALL PLAN - MODULE C

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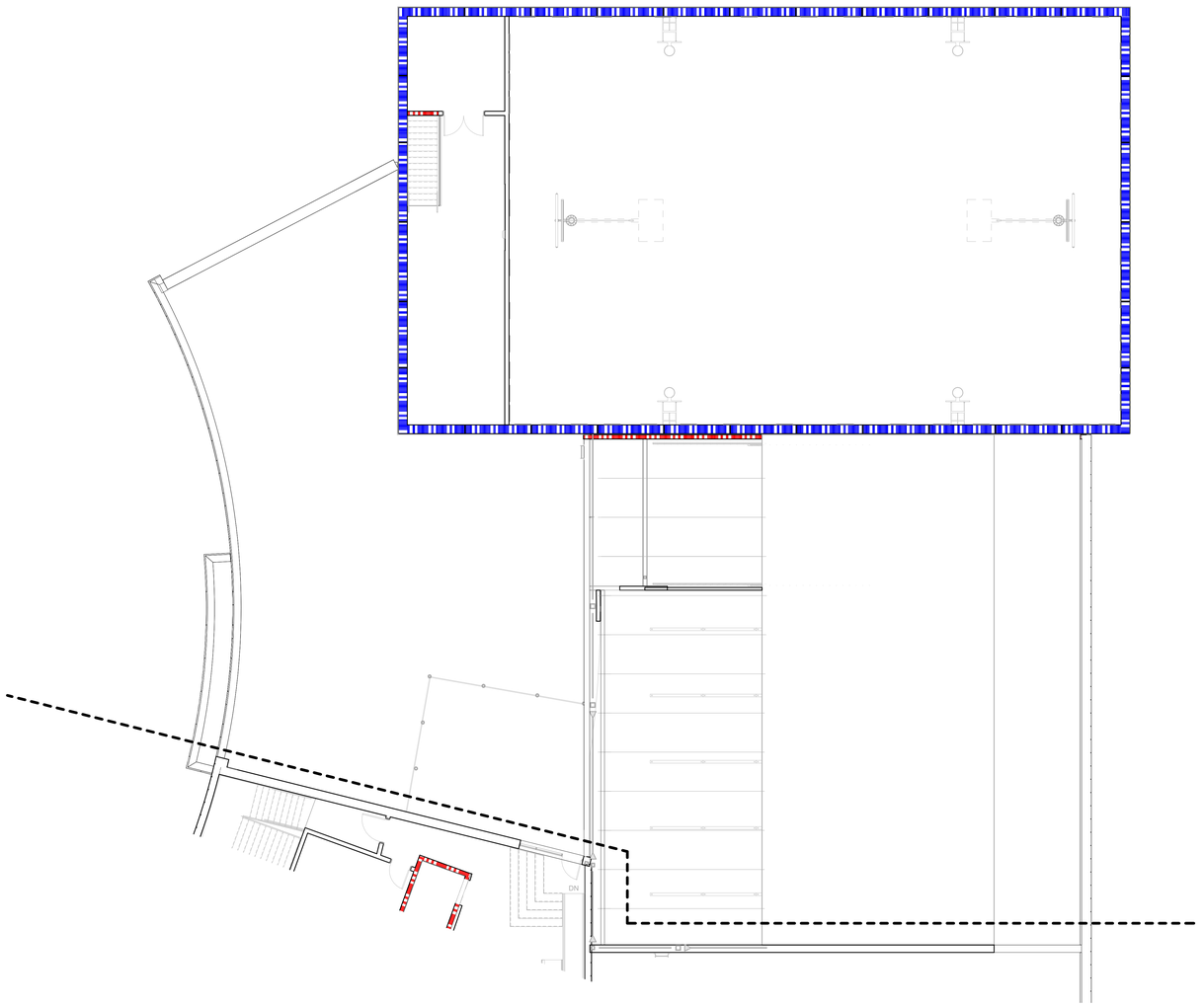
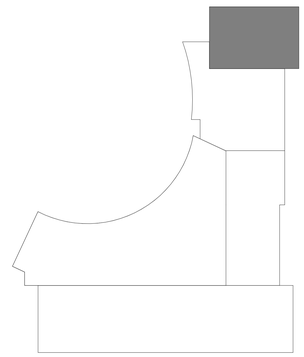


1 SECOND FLOOR FINISH WALL PLAN - MODULE A
1/8" = 1'-0"



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SECOND FLOOR FINISH WALL PLAN - MODULE A

AF112A

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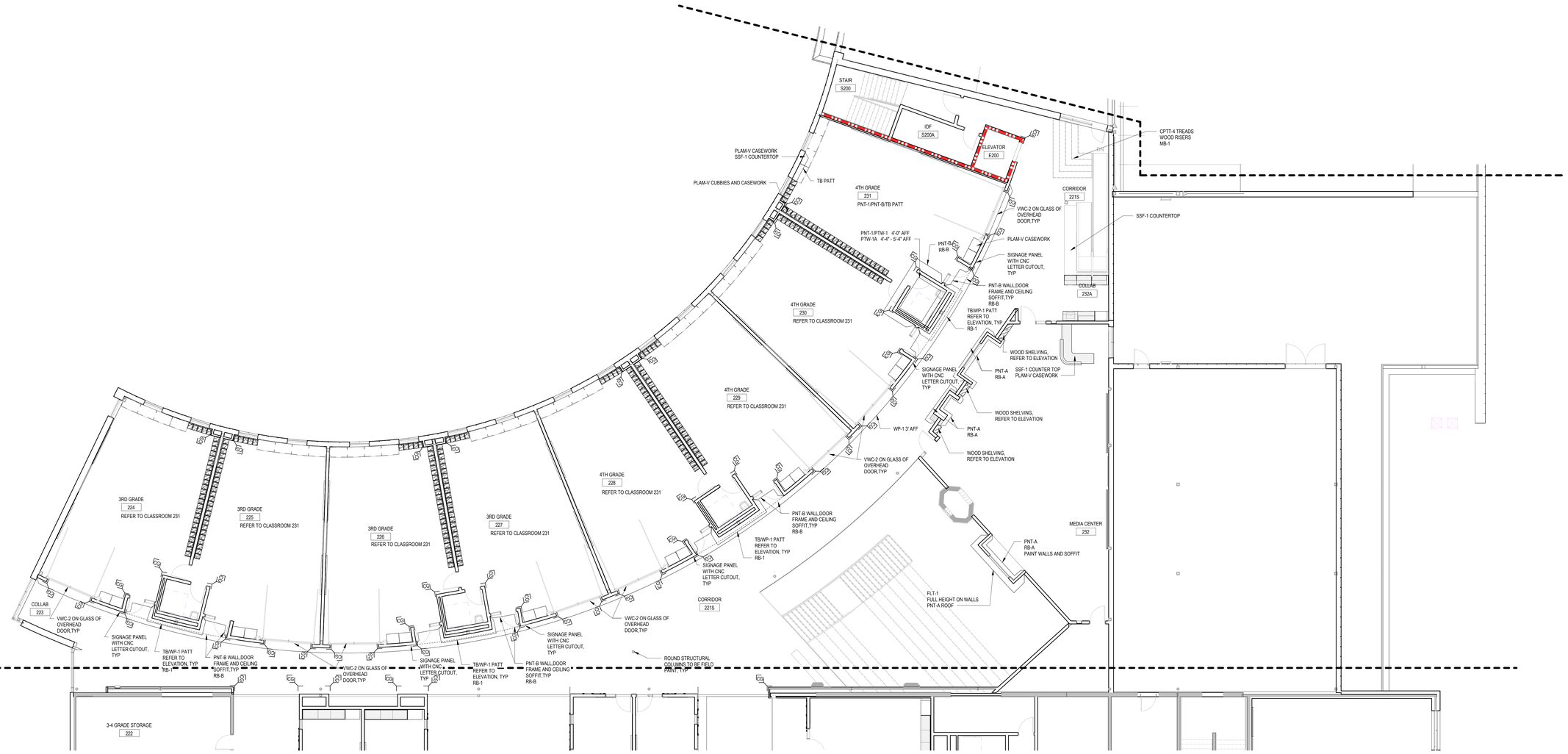
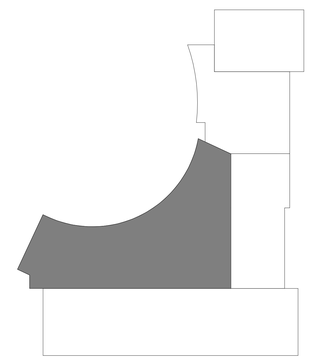


1 SECOND FLOOR FINISH WALL PLAN - MODULE B
1/8" = 1'-0"



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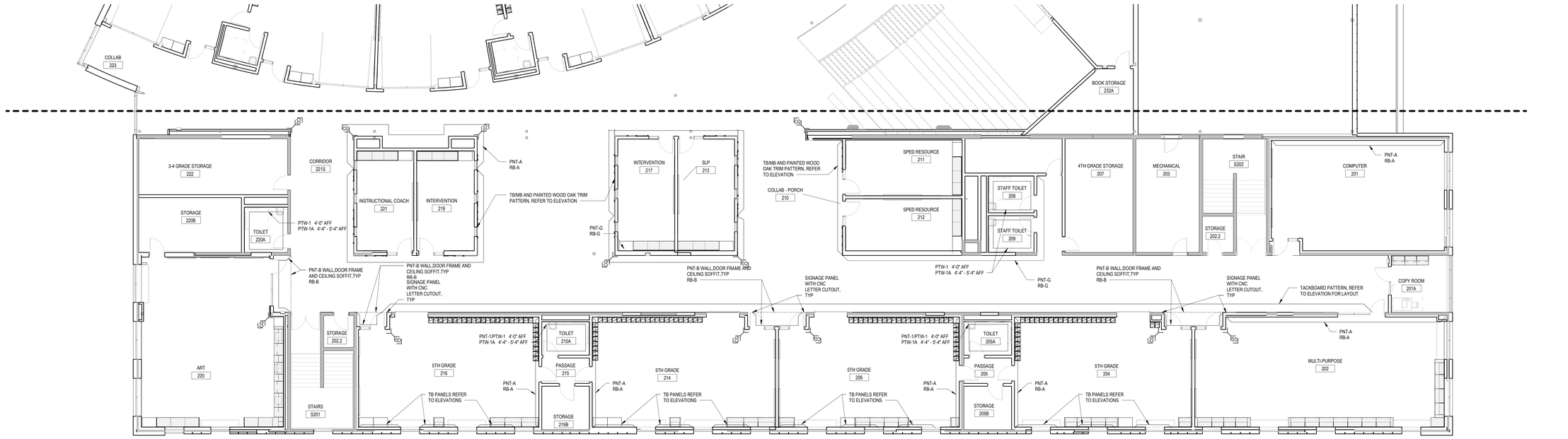
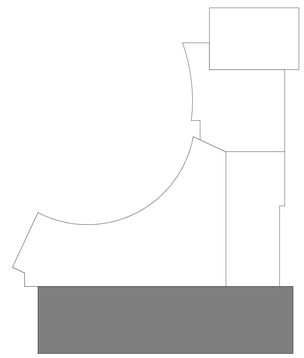
SECOND FLOOR FINISH WALL PLAN - MODULE B

AF112B

BIDDING



1 SECOND FLOOR FINISH WALL PLAN - MODULE C
1/8" = 1'-0"



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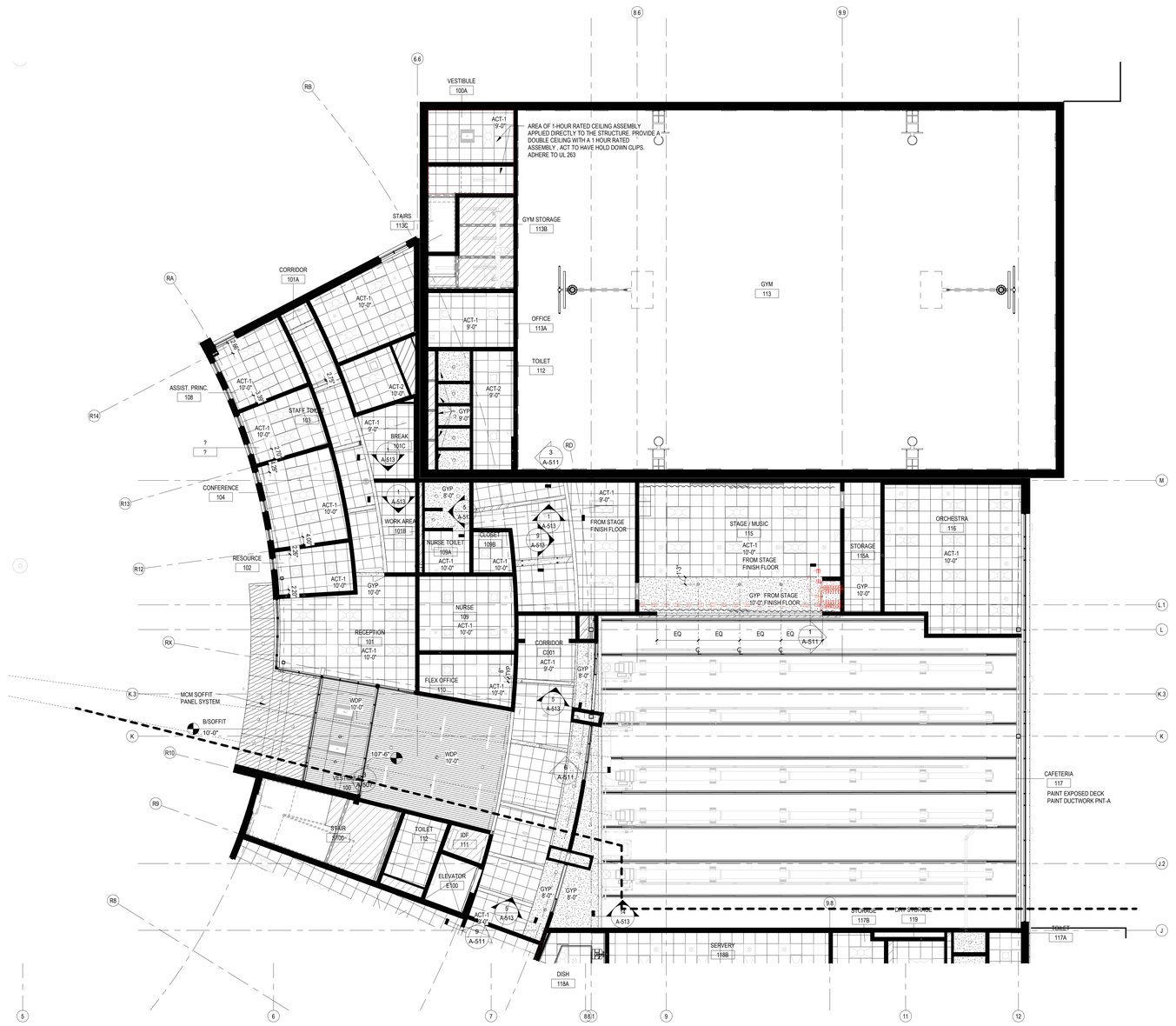
SECOND FLOOR FINISH WALL PLAN - MODULE C

AF112C

BIDDING

REFLECTED CEILING PLAN LEGEND

- FINISHED CEILING ELEVATION
- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE
- 2' X 4' SUSPENDED PERFORATED METAL CEILING TILE
- GYPSUM BOARD CEILING OR SOFFIT
- EXPOSED CEILING
- DIRECT MOUNT ACOUSTIC PANELS
- TECTUM CEILING LEAVES
- METAL CEILING LEAVES
- HIGH SPEED FAN - SEE MECHANICAL DRAWINGS
- 2' X 2' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- 2' X 4' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED 4" LINEAR FIXTURE
- DROPPED PENDANT MOUNTED
- RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- CEILING MOUNTED ACOUSTIC PANEL
- SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
- CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
- PR CEILING-MOUNTED PROJECTOR
- EMERGENCY WALL LIGHT
- EMERGENCY EXIT SIGN
- RECESSED BUSWAY SYSTEM - REFER TO ELECTRICAL DRAWINGS
- PROJECTION SCREEN
- SD SMOKE DETECTOR
- OS OCCUPANCY SENSOR
- DS DAYLIGHT SENSOR
- SC SECURITY CAMERA
- AV AV SPEAKERS
- WAP WIRELESS ACCESS POINT
- FIRE SPRINKLER LINE - SEE FIRE PROTECTION DRAWINGS
- HIGH BAY LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- WOODWORKS LINEAR VENEERED PANELS



1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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FIRST FLOOR REFLECTED CEILING PLAN - MODULE A

AC101A

BIDDING

REFLECTED CEILING PLAN LEGEND

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- EXPOSED CEILING
- DIRECT MOUNT ACOUSTIC PANELS
- TECTUM CEILING LEAVES
- METAL CEILING LEAVES
- HIGH SPEED FAN - SEE MECHANICAL DRAWINGS
- 2' X 2' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- 2' X 4' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED 4" LINEAR FIXTURE
- DROPPED PENDANT MOUNTED
- RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- CEILING MOUNTED ACOUSTIC PANEL
- SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
- CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
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- FIRE SPRINKLER LINE - SEE FIRE PROTECTION DRAWINGS
- HIGH BAY LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- WOODWORKS LINEAR VENEERED PANELS

PAINT WALL ABOVE 9'0" AFF TO DECK, BLACK TO ALIGN WITH ACT CLOUDS - TYP

PAINT EVERYTHING ABOVE THE CEILING IN THIS AREA TO DECK BLACK - TYPICAL OF ALL LOCATIONS

1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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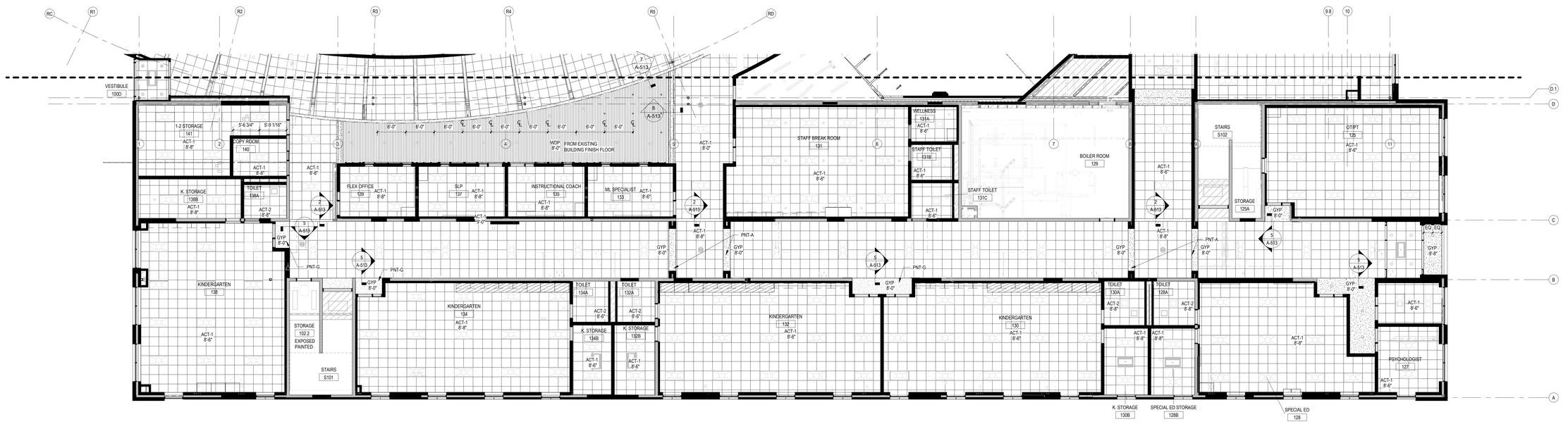
FIRST FLOOR REFLECTED CEILING PLAN - MODULE B

AC101B

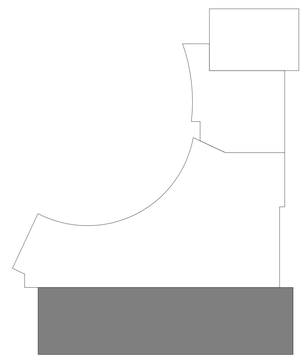
BIDDING

REFLECTED CEILING PLAN LEGEND

- FINISHED CEILING ELEVATION
- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE
- 2' X 4' SUSPENDED PERFORATED METAL CEILING TILE
- GYPSUM BOARD CEILING OR SOFFIT
- EXPOSED CEILING
- DIRECT MOUNT ACOUSTIC PANELS
- TECTUM CEILING LEAVES
- METAL CEILING LEAVES
- HIGH SPEED FAN - SEE MECHANICAL DRAWINGS
- 2' X 2' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- 2' X 4' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED 4" LINEAR FIXTURE
- DROPPED PENDANT MOUNTED
- RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- CEILING MOUNTED ACOUSTIC PANEL
- SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
- CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
- PR CEILING-MOUNTED PROJECTOR
- EMERGENCY WALL LIGHT
- EMERGENCY EXIT SIGN
- RECESSED BUSWAY SYSTEM - REFER TO ELECTRICAL DRAWINGS
- PROJECTION SCREEN
- SD SMOKE DETECTOR
- OS OCCUPANCY SENSOR
- DS DAYLIGHT SENSOR
- SC SECURITY CAMERA
- AV AV SPEAKERS
- WAP WIRELESS ACCESS POINT
- FIRE SPRINKLER LINE - SEE FIRE PROTECTION DRAWINGS
- HIGH BAY LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- WOODWORKS LINEAR VENEERED PANELS



1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



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FIRST FLOOR REFLECTED CEILING PLAN - MODULE C

AC101C

BIDDING

REFLECTED CEILING PLAN LEGEND

- FINISHED CEILING ELEVATION
- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE
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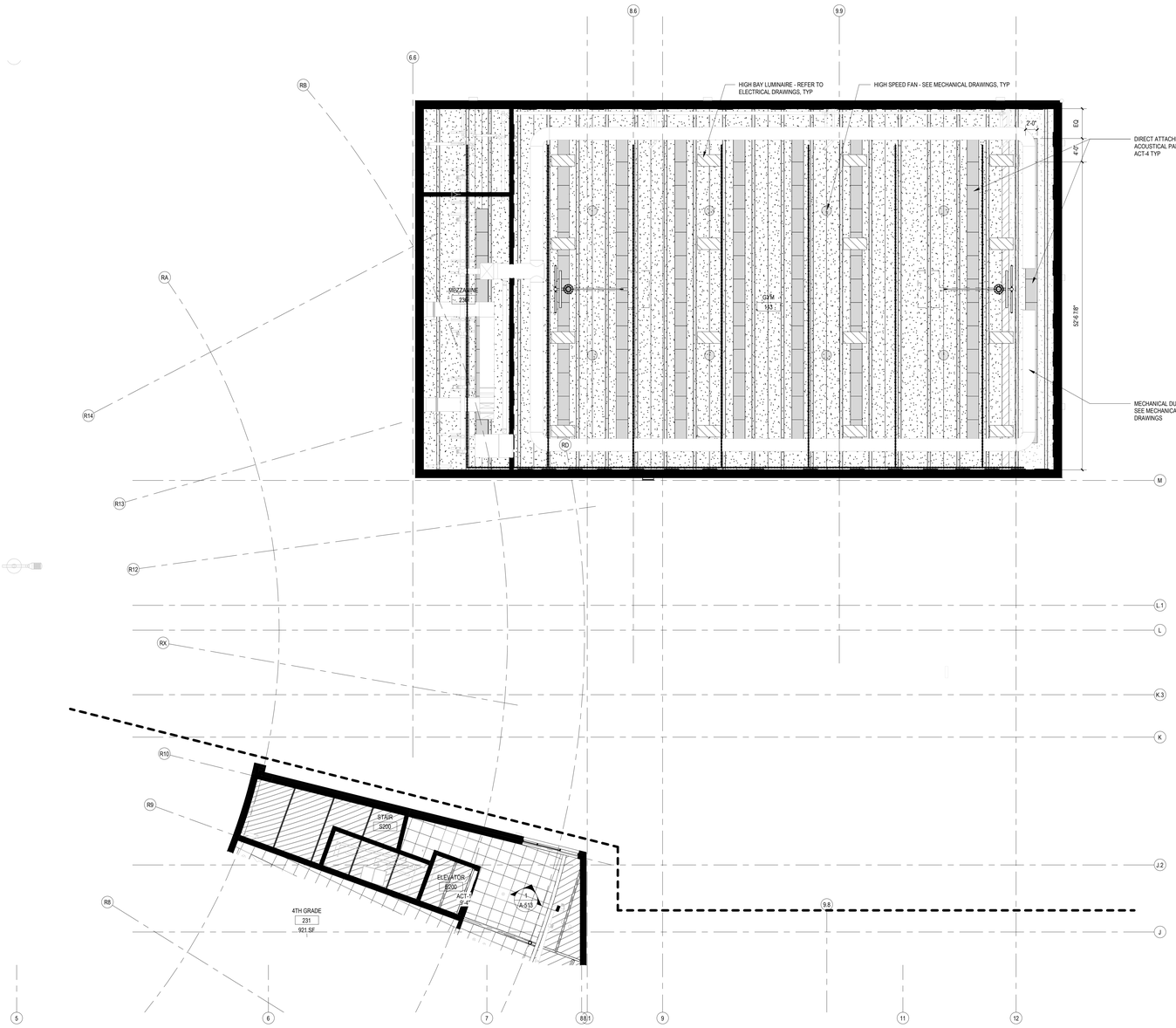
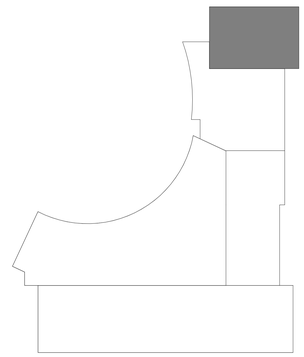


1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



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SECOND FLOOR REFLECTED CEILING PLAN - MODULE A

AC102A

BIDDING

REFLECTED CEILING PLAN LEGEND

- FINISHED CEILING ELEVATION
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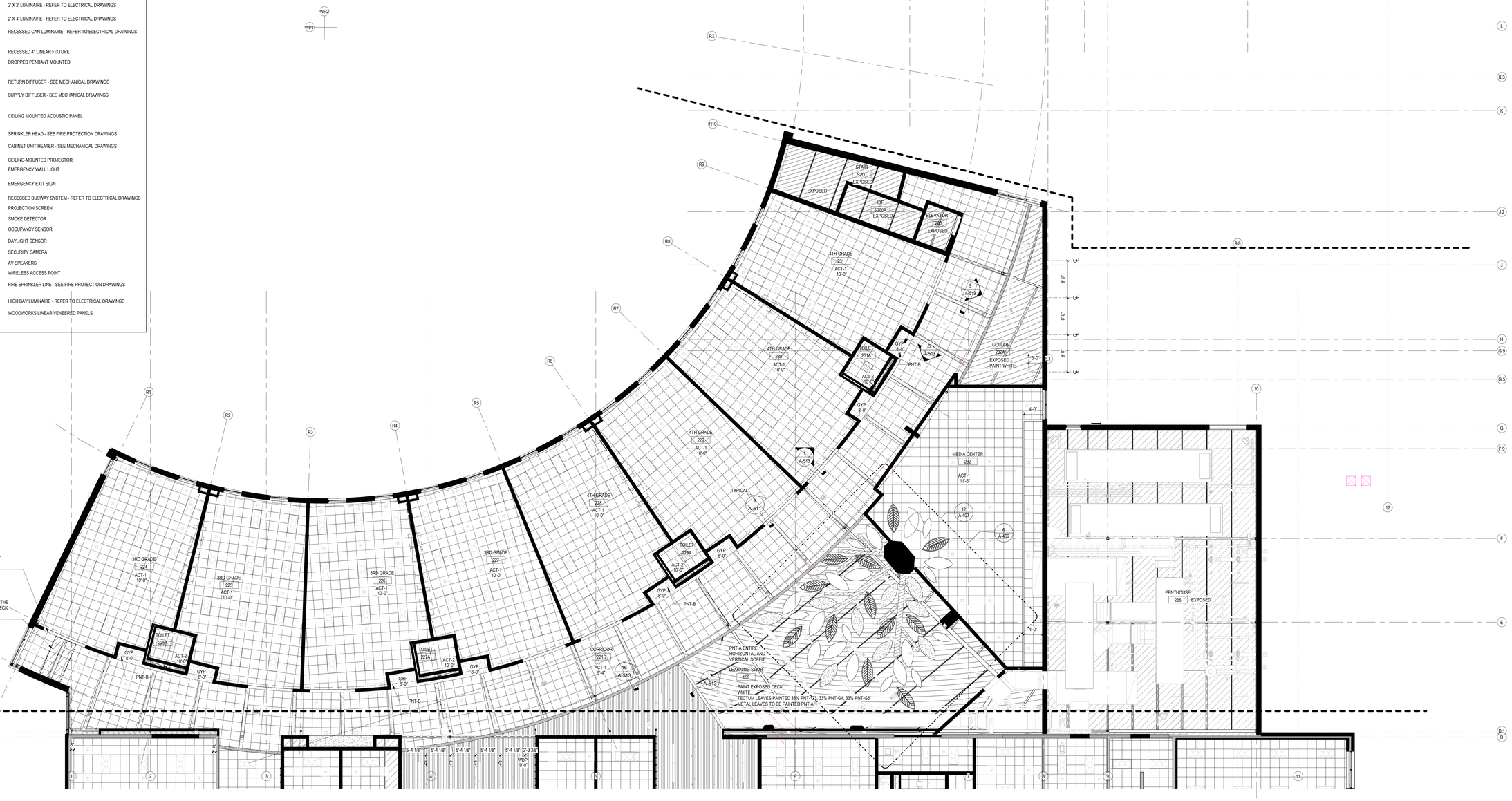

1 SECOND FLOOR REFLECTED CEILING PLAN
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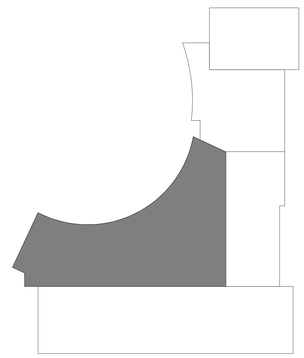

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SECOND FLOOR REFLECTED CEILING PLAN - MODULE B

AC102B

BIDDING

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- FINISHED CEILING ELEVATION
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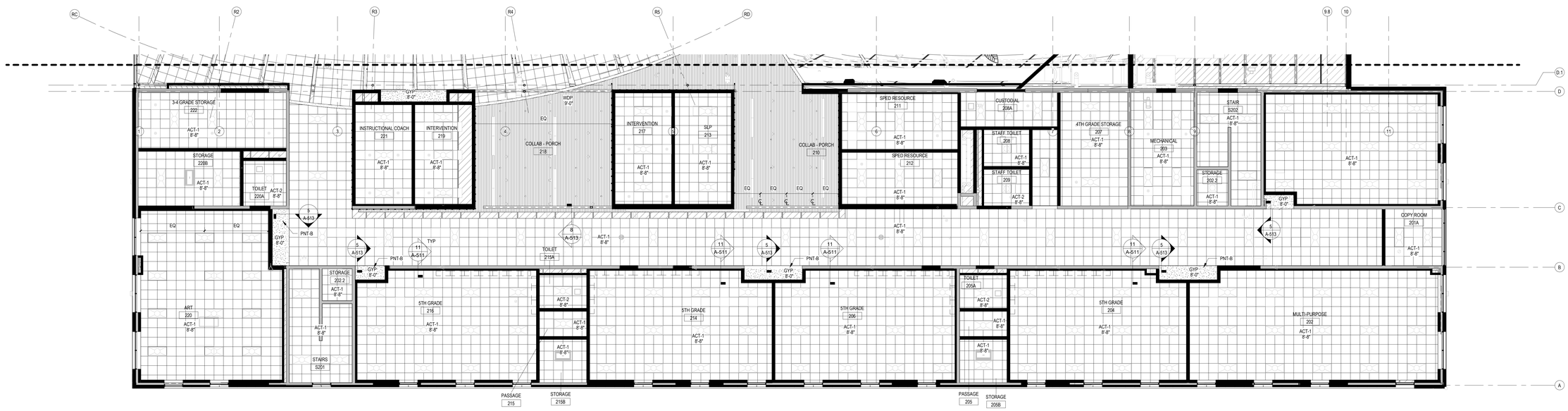

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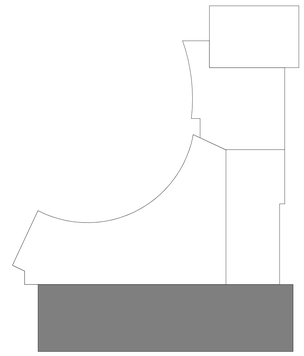

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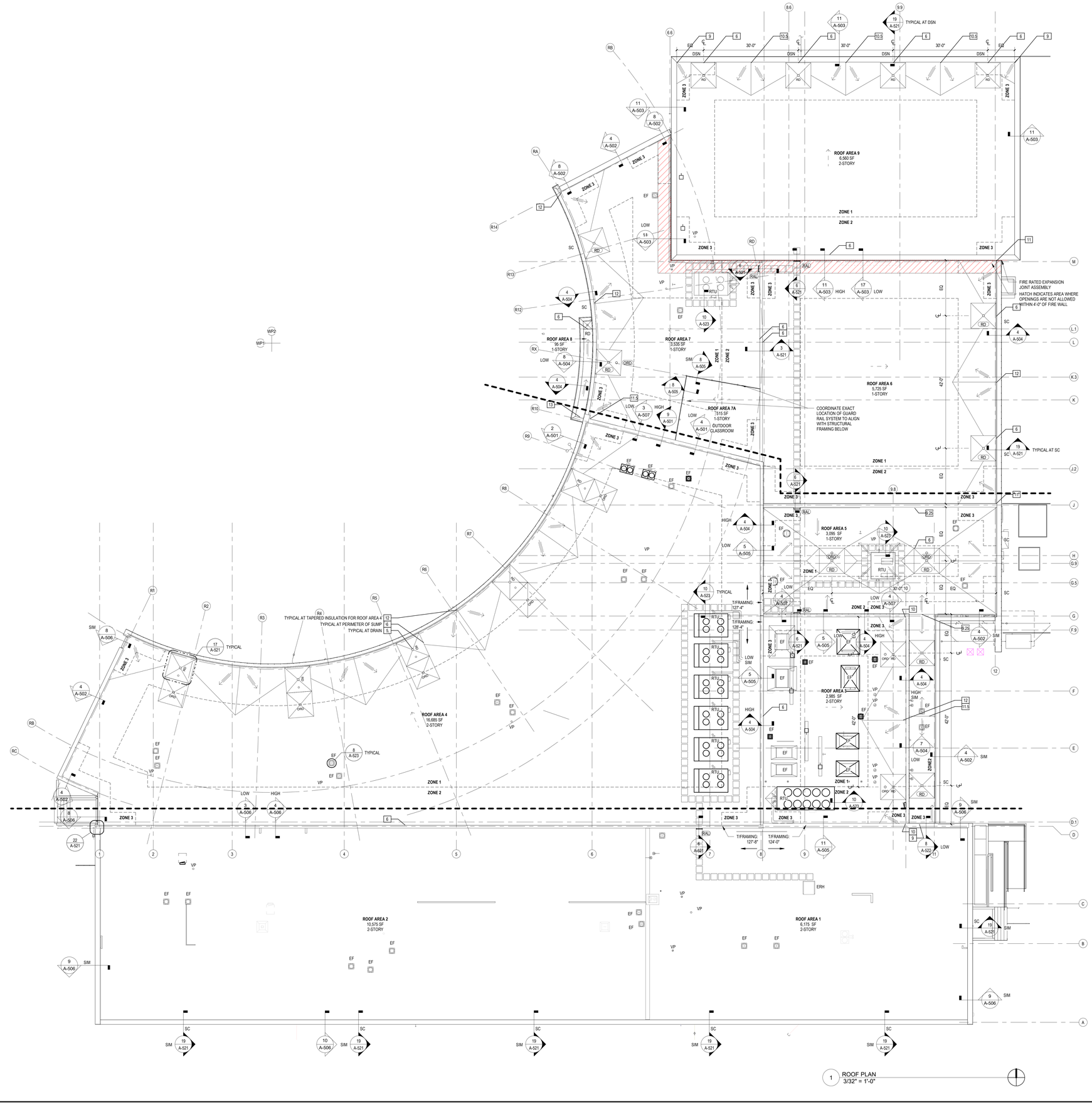
SECOND FLOOR REFLECTED CEILING PLAN - MODULE C

AC102C

BIDDING



1 ROOF PLAN
3/32" = 1'-0"

ROOF PLAN LEGEND

- AREA OF SLOPED STRUCTURE
- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF 1/2" PER FOOT TAPERED INSULATION
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- RAL — ROOF ACCESS LADDER
- EF — EXHAUST FAN
- SC — SCUPPER AND DOWNSPOUT
- ROOF WALKWAY PAD
- ERH — EXISTING ROOF HATCH
- TOTAL HEIGHT OF INSULATION IN INCHES NOT INCLUDING COVER BOARD
- VP — VENT PIPE ROOF PENETRATION
- DSN — DOWNSPOUT NOZZLE
- DS — DOWNSPOUT
- RTU — MECHANICAL ROOF TOP UNIT - REFER TO MECHANICAL
- EXPANSION JOINT ASSEMBLY

GENERAL ROOF NOTES

1. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
3. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
4. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
5. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
6. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
7. APPLY MEMBRANE MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
8. DRAINS TO BE FLASHED AS PER MANUFACTURERS SPECIFICATIONS.
9. PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
10. WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
11. SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL DECK ONLY.
12. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
13. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.
14. REFER TO "ROOF PLAN LEGEND" ON SHEET AR101.

ROOF PLAN FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 (**PAINT**) SCREW.
6. EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.

ROOF CONSTRUCTION NOTES

ROOF AREA: 1 & 2
EXISTING DECK TO REMAIN

1. REMOVE AND REINSTALL EXISTING MEMBRANE AS REQUIRED TO INSTALL NEW COPING SYSTEM.
2. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.

ROOF AREA: 3, 3A, 4, 5, 6, 7
METAL DECK

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION (R34 AVERAGE MINIMUM), STAGGER JOINTS, SET IN INSULATION ADHESIVE.
4. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
5. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
6. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
7. INSTALL WALKWAY PADS.
8. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.

ROOF AREA: 7A
CONCRETE ON METAL DECK

1. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
2. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION (R34 AVERAGE MINIMUM), STAGGER JOINTS, SET IN INSULATION ADHESIVE.
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4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL PAVER SYSTEM.
7. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.

ROOF AREA: 9
CONCRETE DECK

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ROOF PLAN

AR101

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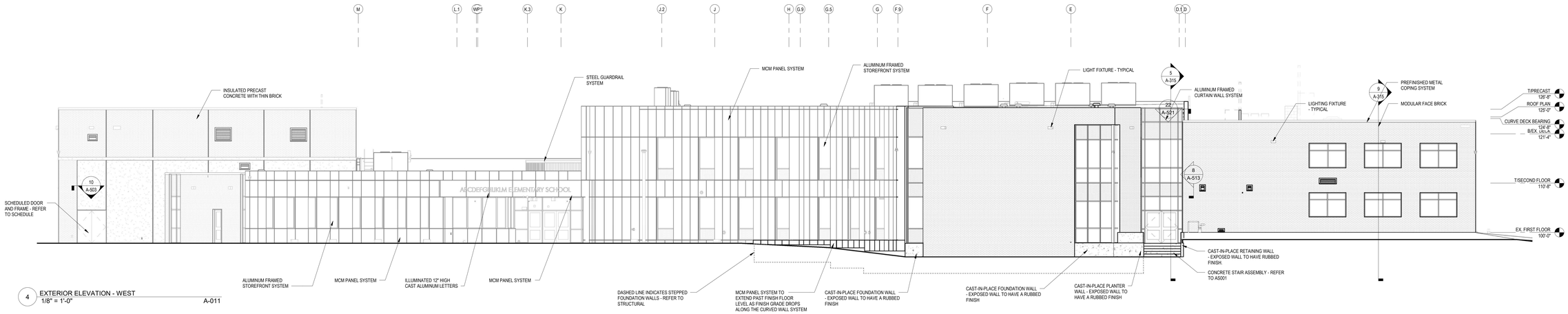
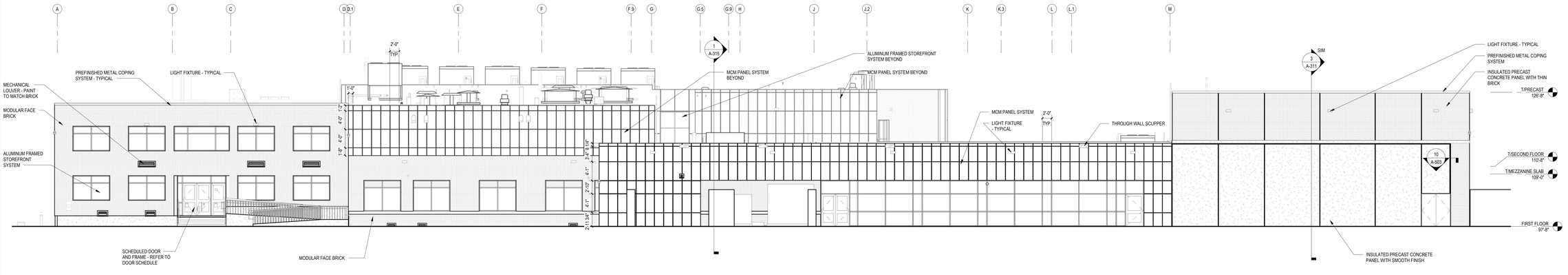
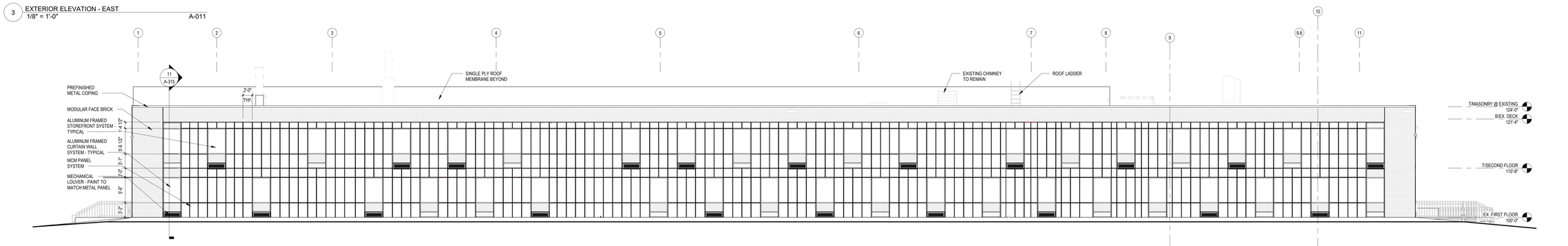


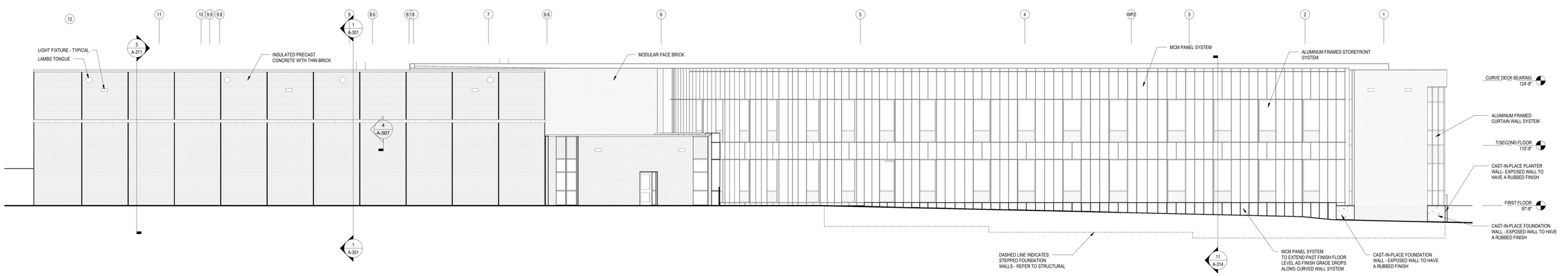
4 EXTERIOR ELEVATION - WEST
1/8" = 1'-0" A-011



3 EXTERIOR ELEVATION - EAST
1/8" = 1'-0" A-011



2 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0" A-011



1 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0" A-011

LEGAT ARCHITECTS
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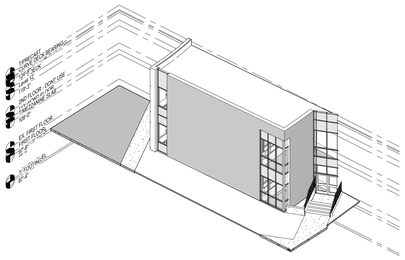
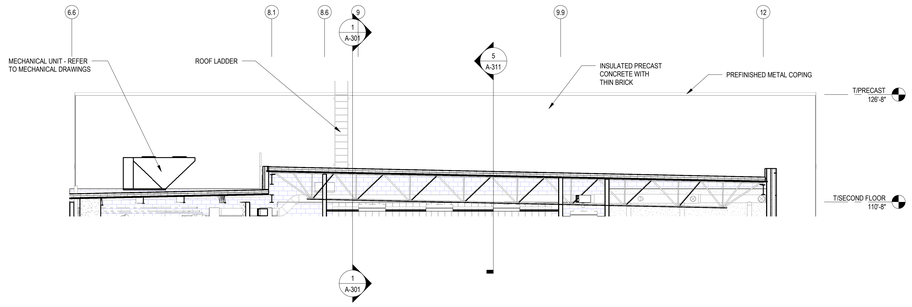
EXTERIOR BUILDING ELEVATIONS

A-201

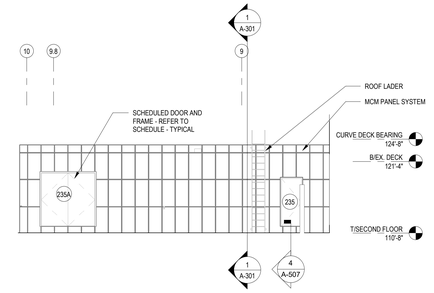
BIDDING



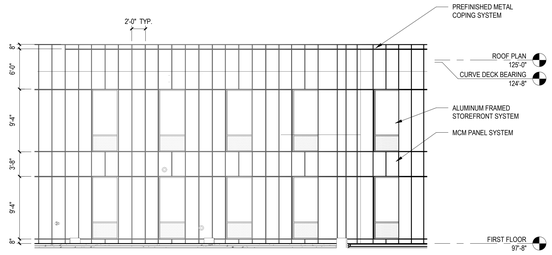
13 EXTERIOR ELEVATION - ADDITION WEST WALL - AXON



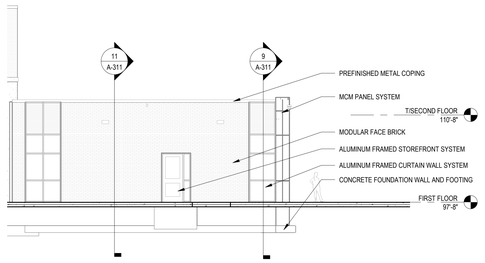
12 EXTERIOR ELEVATION - SOUTH GYM WALL
1/8" = 1'-0" A-012



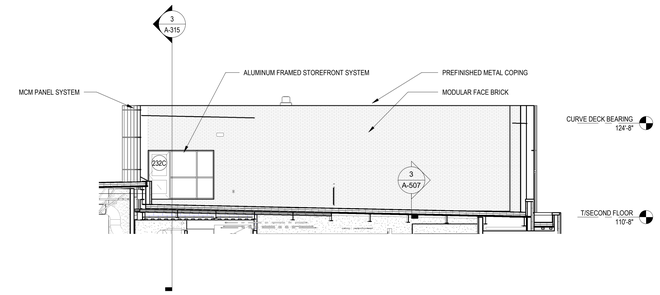
11 EXTERIOR ELEVATION - NORTH PENTHOUSE WALL
1/8" = 1'-0" A-012



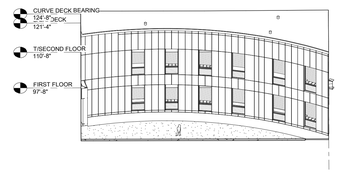
10 EXTERIOR ELEVATION - WEST CURVE
1/8" = 1'-0" A-101B



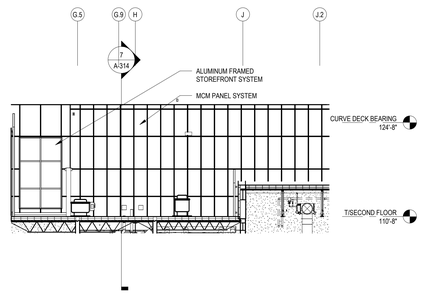
9 EXTERIOR ELEVATION - ADMIN. NORTH
1/8" = 1'-0" A-011



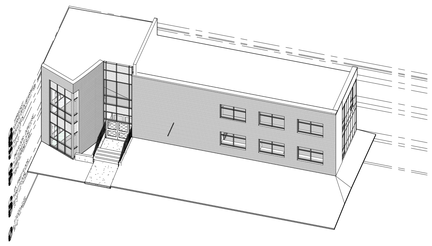
8 EXTERIOR ELEVATION - OUTDOOR CLASSROOM
1/8" = 1'-0" A-012



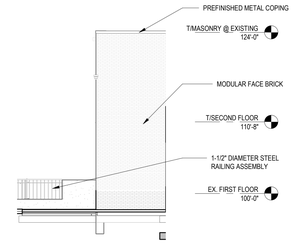
7 EXTERIOR ELEVATION - CURVED WALL - AXON



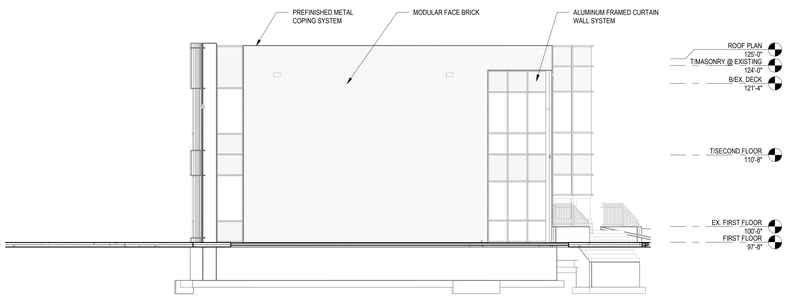
6 EXTERIOR ELEVATION - EAST 2ND FLOOR
1/8" = 1'-0" A-012



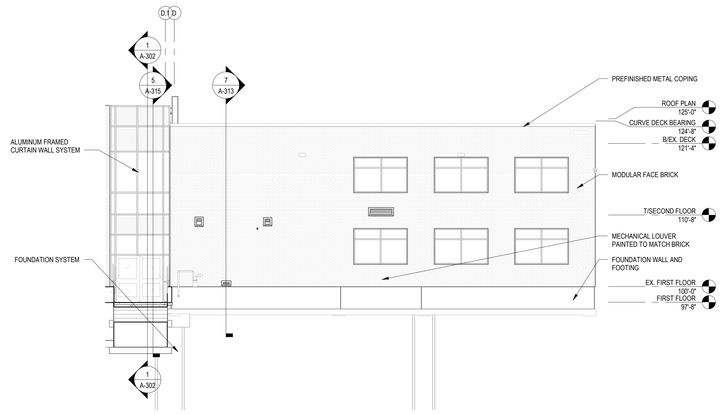
5 EXTERIOR ELEVATION - WEST - AXON



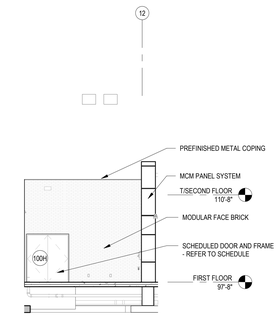
4 EXTERIOR ELEVATION -
1/8" = 1'-0" A-011



3 WEST - CLASSROOM CURVE END WALL
1/8" = 1'-0" A-011



2 EXTERIOR ELEVATION - EXISTING WEST WALL
1/8" = 1'-0" A-101B



1 EXTERIOR ELEVATION - KITCHEN ENTRANCE
1/8" = 1'-0" A-011

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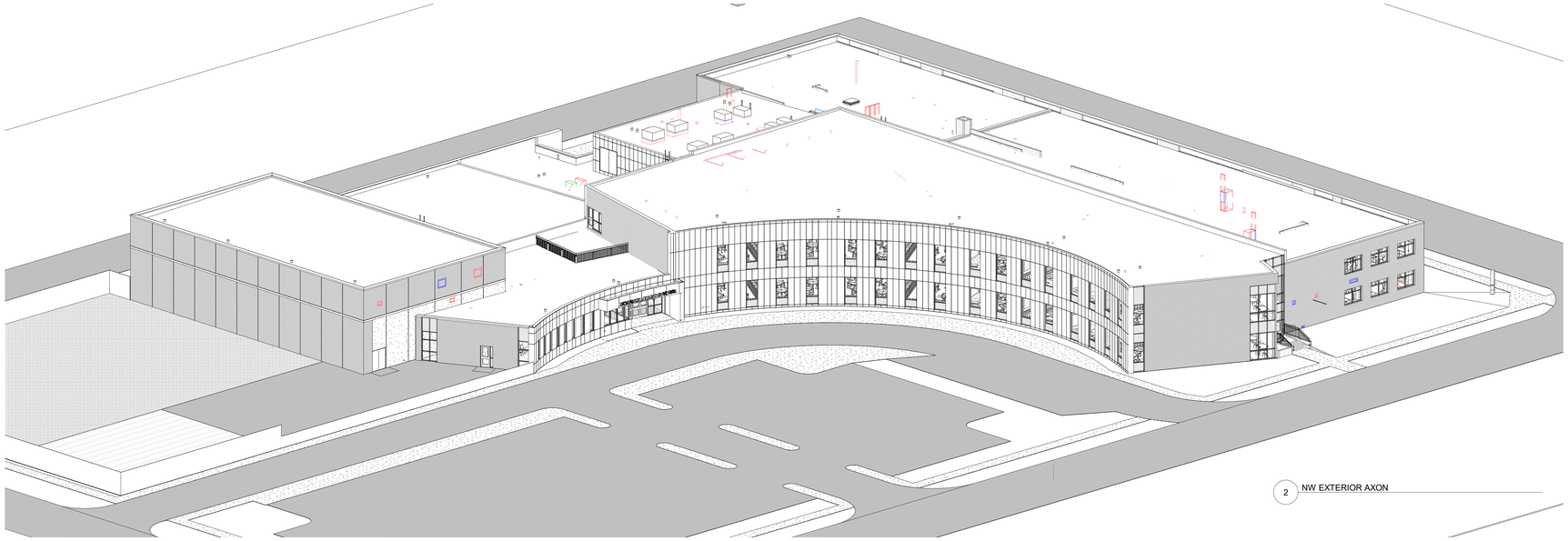
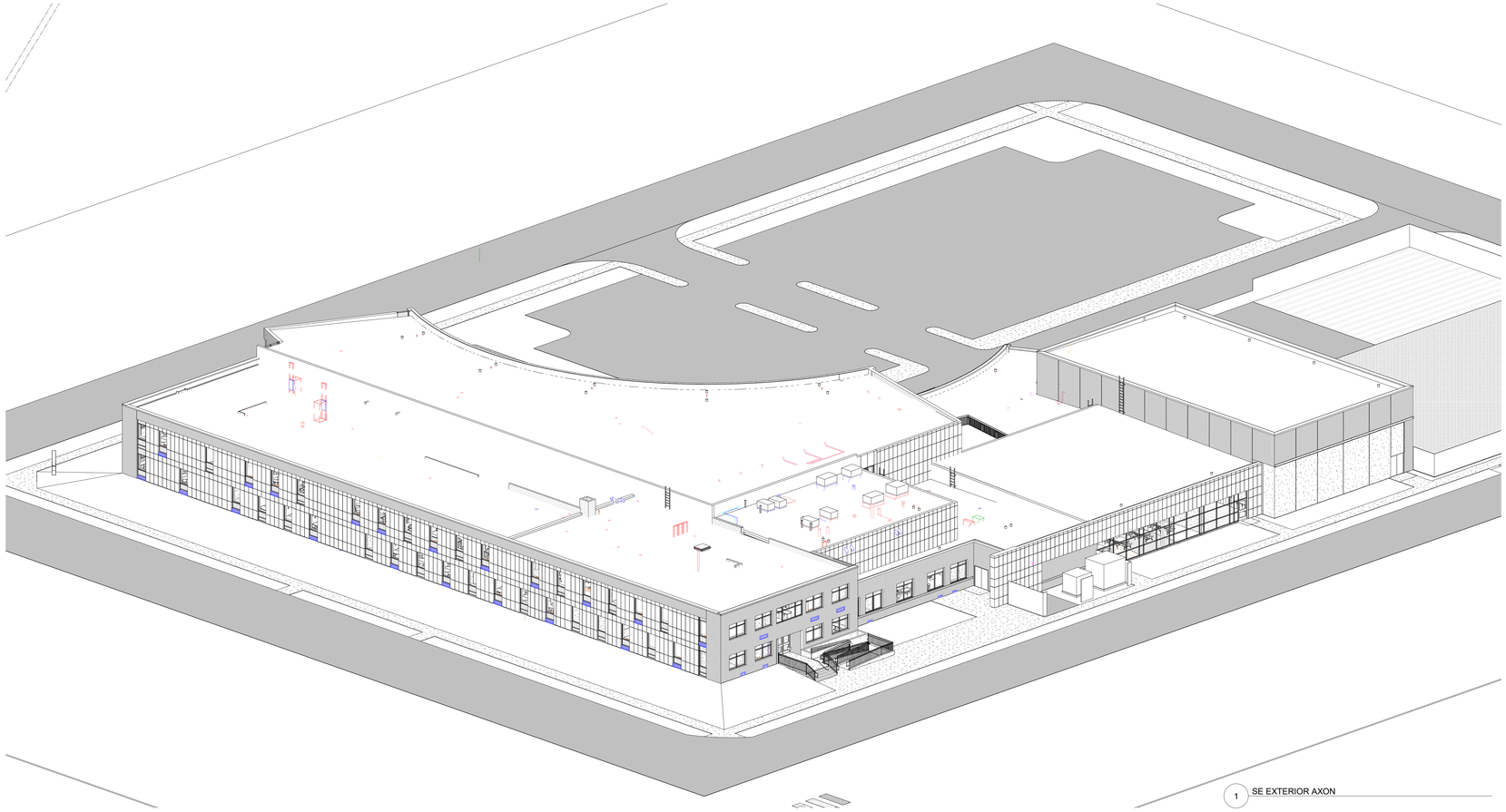
EXTERIOR BUILDING ELEVATIONS

A-202

BIDDING



2 NW EXTERIOR AXON



1 SE EXTERIOR AXON

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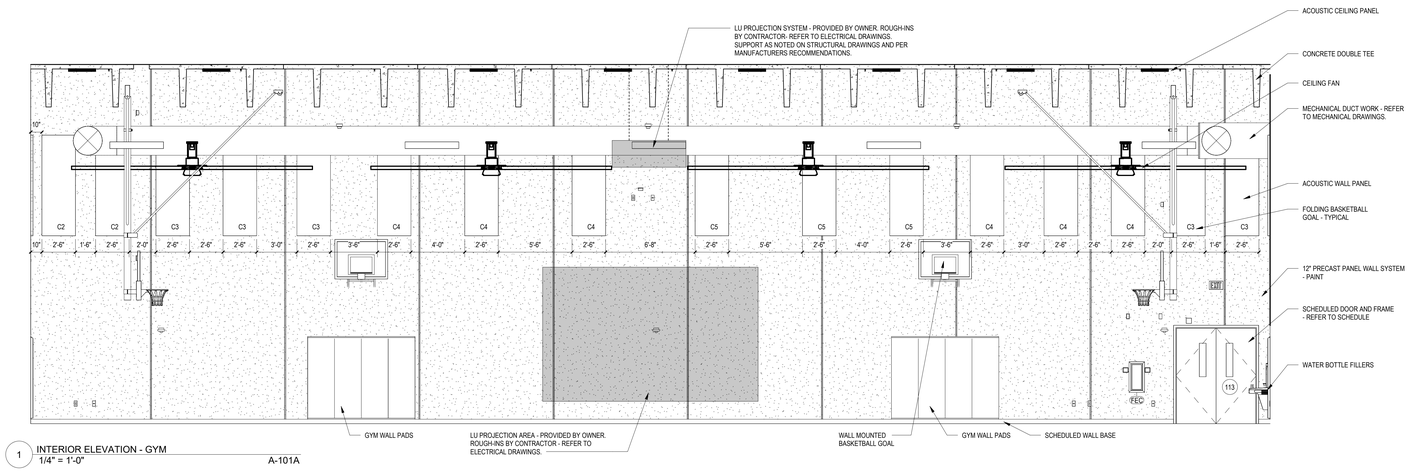
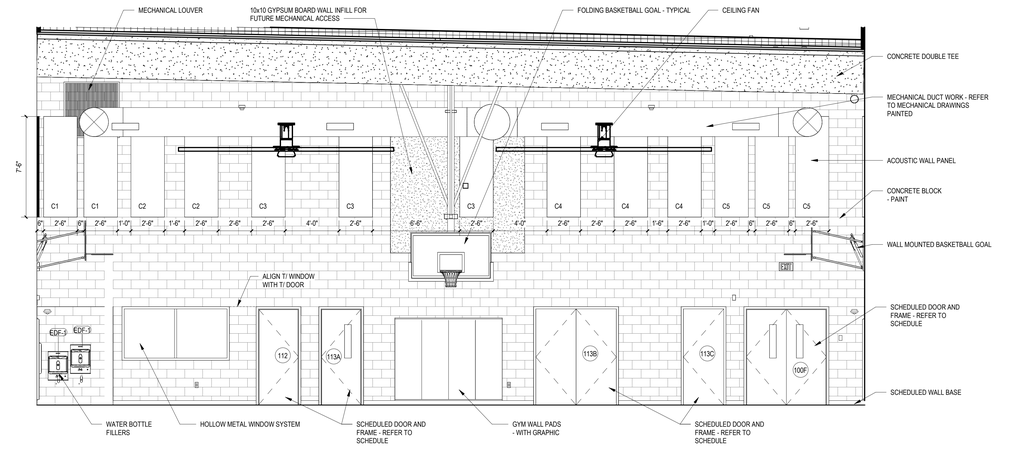
EXTERIOR AXONS

A-203

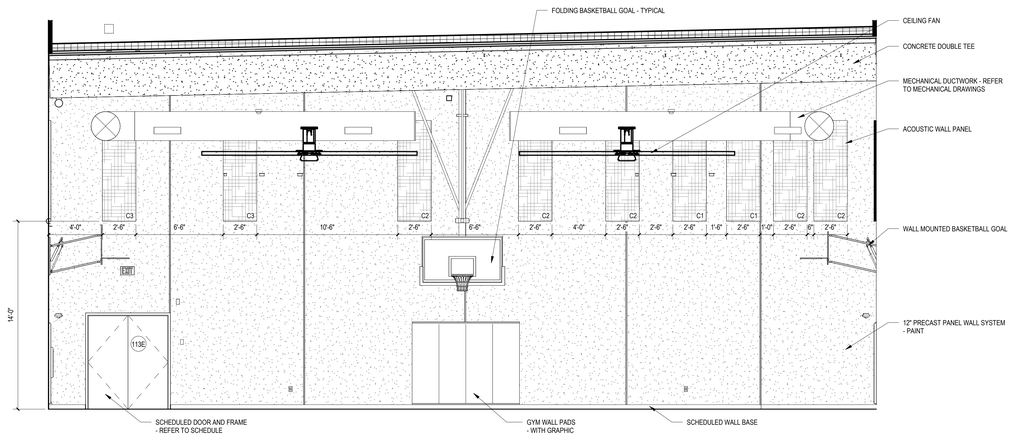
BIDDING



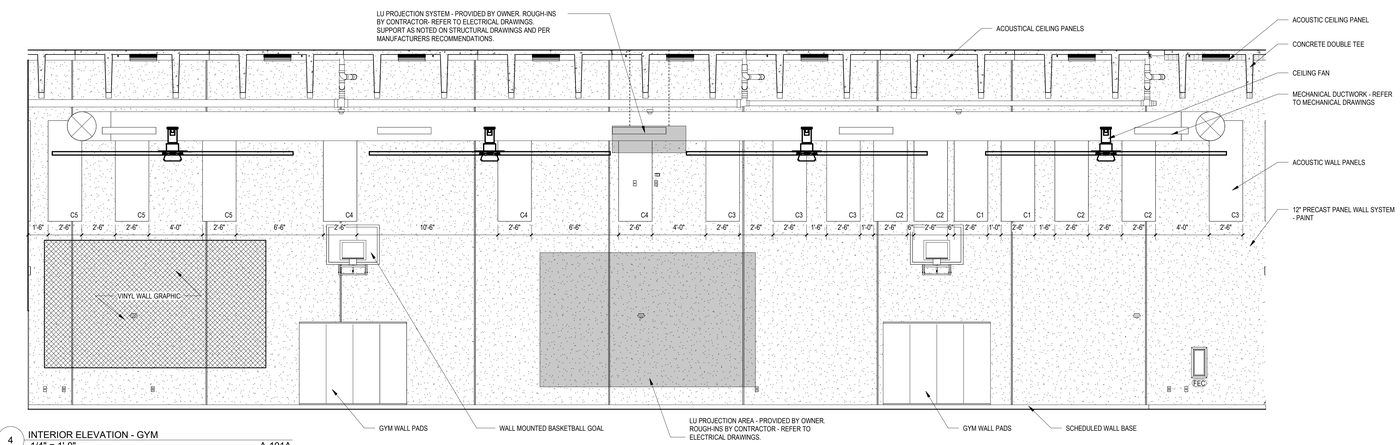
1 INTERIOR ELEVATION - GYM
1/4" = 1'-0" A-101A



2 INTERIOR ELEVATION - GYM
1/4" = 1'-0" A-101A



3 INTERIOR ELEVATION - GYM
1/4" = 1'-0" A-101A



4 INTERIOR ELEVATION - GYM
1/4" = 1'-0" A-101A

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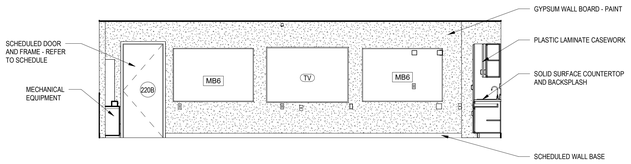
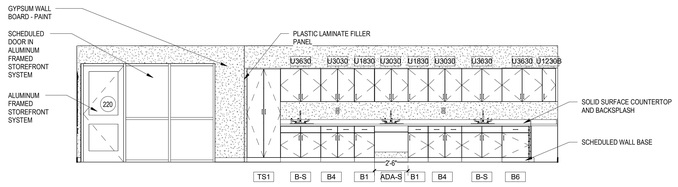
INTERIOR ELEVATIONS

A-211
BIDDING

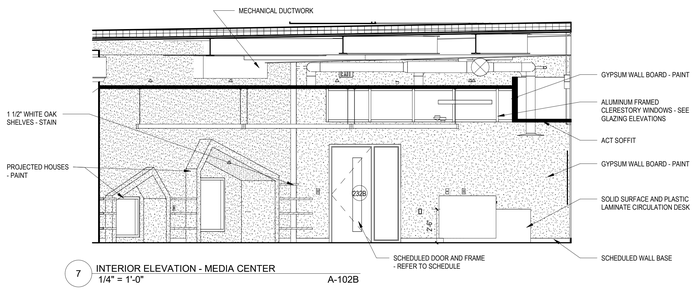


10 INTERIOR ELEVATION - ART ROOM
1/4" = 1'-0" A-102C

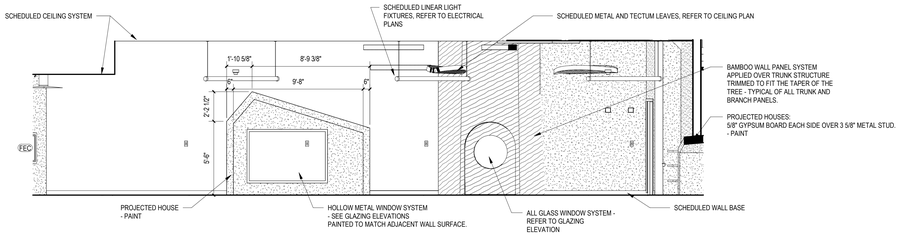


9 INTERIOR ELEVATION - ART ROOM
1/4" = 1'-0" A-102C

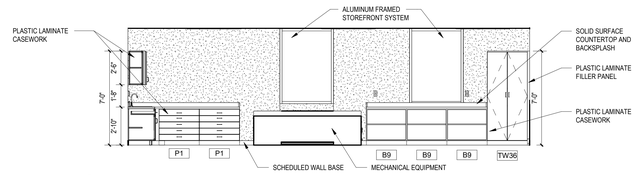
8 INTERIOR ELEVATION - MEDIA CENTER CORRIDOR WALL
1/4" = 1'-0" A-102B



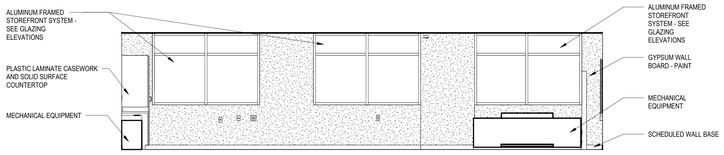
7 INTERIOR ELEVATION - MEDIA CENTER
1/4" = 1'-0" A-102B



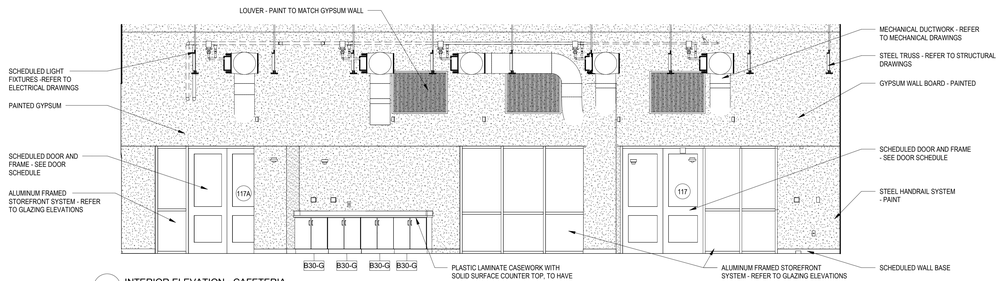
6 INTERIOR ELEVATION - MEDIA CENTER
1/4" = 1'-0" A-102B



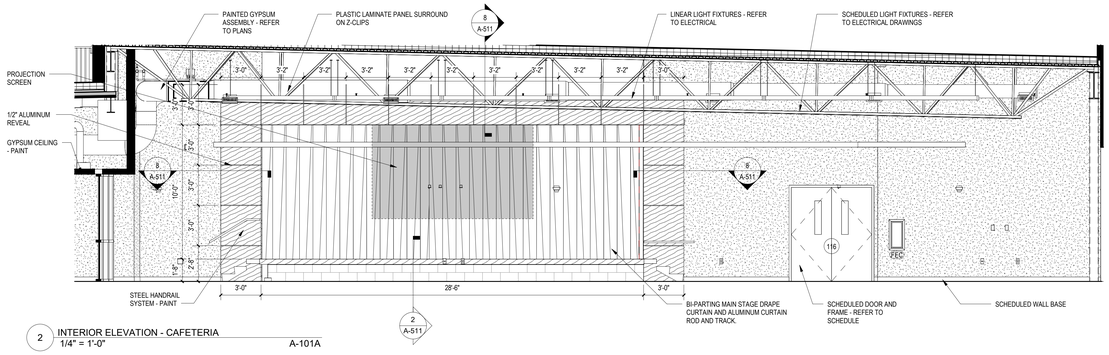
5 INTERIOR ELEVATION - ART ROOM
1/4" = 1'-0" A-102C



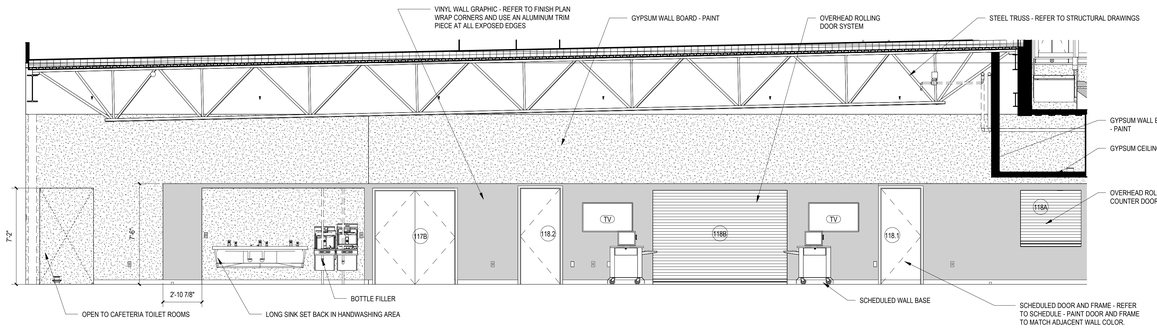
4 INTERIOR ELEVATION - ART ROOM
1/4" = 1'-0" A-102C



3 INTERIOR ELEVATION - CAFETERIA
1/4" = 1'-0" A-101A



2 INTERIOR ELEVATION - CAFETERIA
1/4" = 1'-0" A-101A



1 INTERIOR ELEVATION - CAFETERIA
1/4" = 1'-0" A-101A

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INTERIOR ELEVATIONS

A-212

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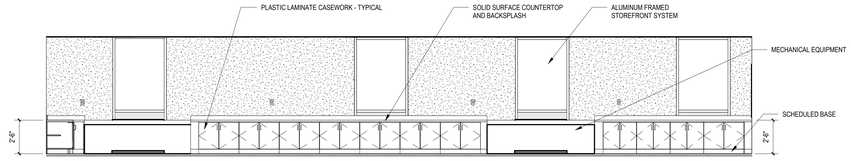
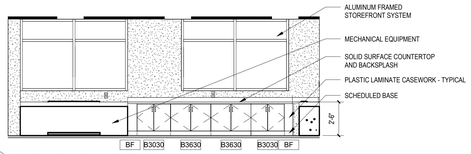
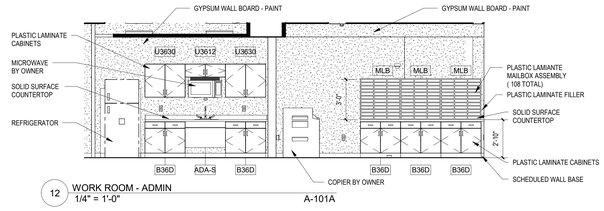


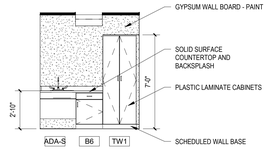
14 MULTI-PURPOSE 202 SOUTH
1/4" = 1'-0" A-102C



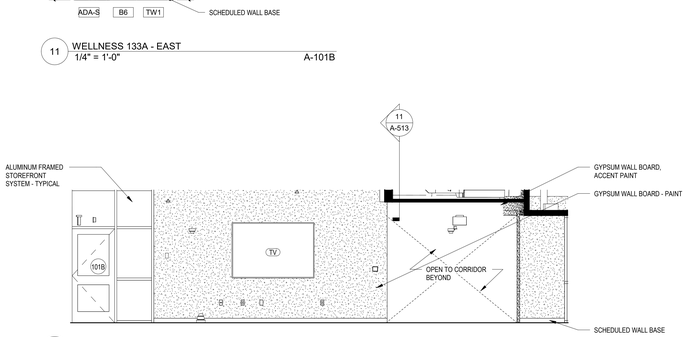
13 MULTI-PURPOSE 202 EAST
1/4" = 1'-0" A-102C



12 WORK ROOM - ADMIN
1/4" = 1'-0" A-101A

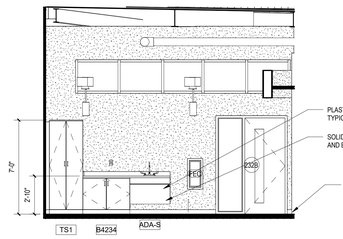


11 WELLNESS 133A - EAST
1/4" = 1'-0" A-101B

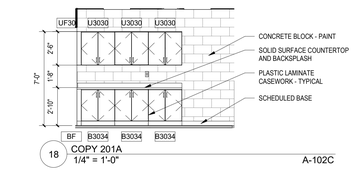


10 LOBBY - NORTH
1/4" = 1'-0" A-101A

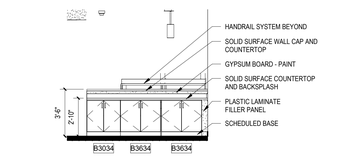
9 LOBBY - SOUTH
1/4" = 1'-0" A-101A



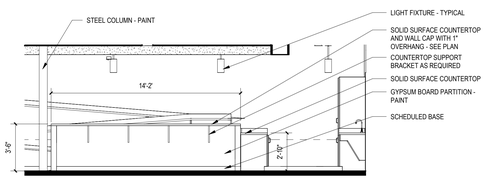
17 INTERIOR ELEVATION - COLLAB 232A
1/4" = 1'-0" A-102B



18 COPY 201A
1/4" = 1'-0" A-102C



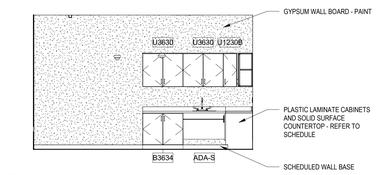
16 COLLAB 232A - NORTH CASEWORK
1/4" = 1'-0" A-102B



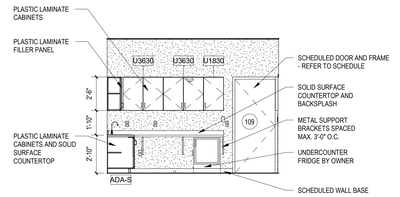
15 COLLAB 232A - EAST COUNTER TOP
1/4" = 1'-0" A-102A



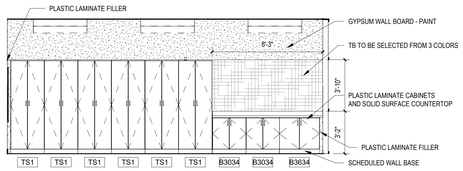
8 ENTRANCE COORIDOR EAST
1/4" = 1'-0" A-101A



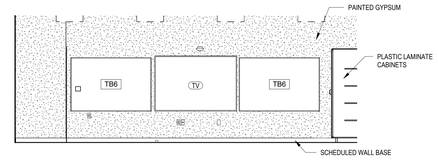
7 NURSE - SOUTH'
1/4" = 1'-0" A-101A



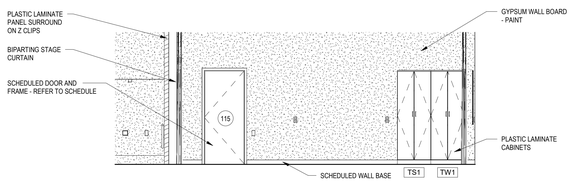
6 NURSE - WEST
1/4" = 1'-0" A-101A



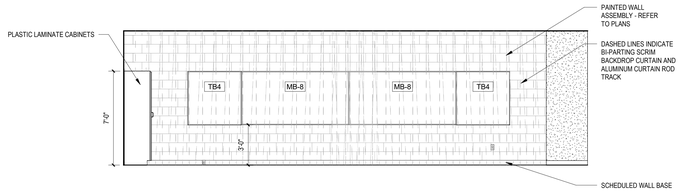
5 ORCHESTRA NORTH
1/4" = 1'-0" A-101A



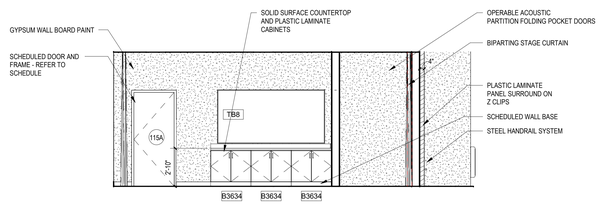
4 ORCHESTRA - WEST
1/4" = 1'-0" A-101A



3 MUSIC - WEST
1/4" = 1'-0" A-101A



2 MUSIC - NORTH
1/4" = 1'-0" A-101A



1 MUSIC-EAST
1/4" = 1'-0" A-101A

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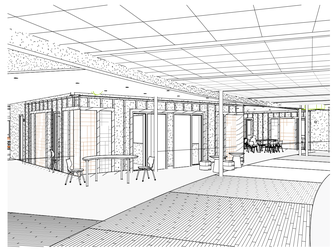
PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	MT
REVIEWED BY	ZC

INTERIOR ELEVATIONS

A-213

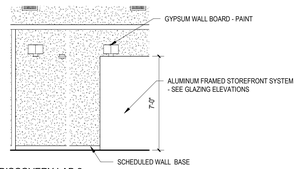
BIDDING



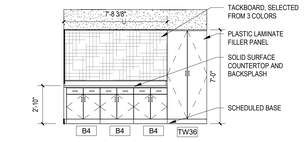
20 FIRST FLOOR PORCH ISOMETRIC



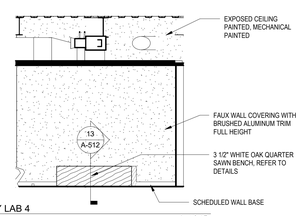
19 PORCH ISOMETRIC VIEW



18 DISCOVERY LAB 2
1/4" = 1'-0" A-101B



17 TYPICAL 1ST FLOOR INSTRUCTIONAL ROOM CASEWORK
1/4" = 1'-0" A-101C



16 DISCOVERY LAB 4
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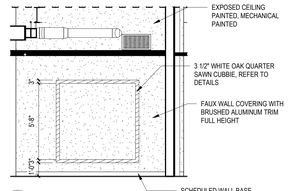
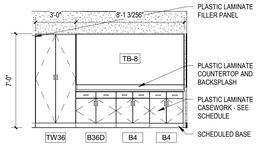
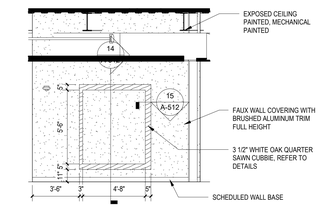


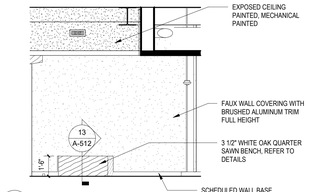
15 DISCOVERY LAB 3
1/4" = 1'-0" A-101B



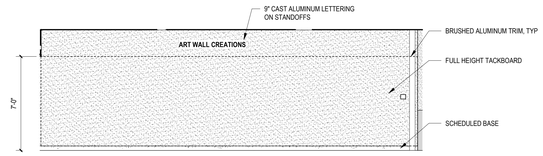
14 INTERIOR ELEVATION - SPECIAL ED RESOURCE
1/4" = 1'-0" A-102B



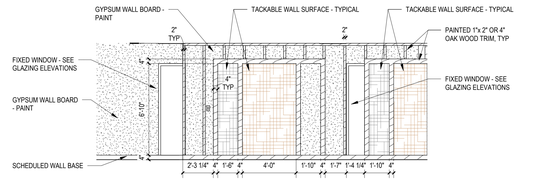
13 DISCOVERY LAB 5
1/4" = 1'-0" A-101B



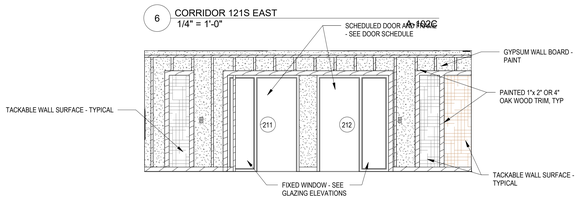
12 DISCOVERY LAB 6
1/4" = 1'-0" A-101B



7 INTERIOR ELEVATION ART WALL
1/4" = 1'-0" A-101B



6 CORRIDOR 121S EAST
1/4" = 1'-0" A-102C



5 PORCH 210 EAST
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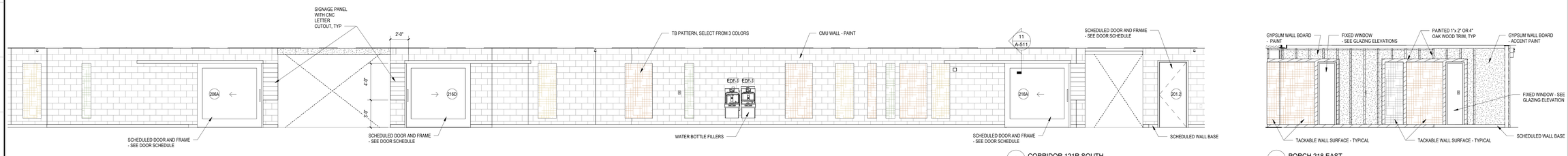
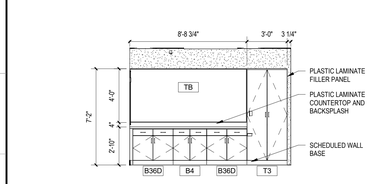
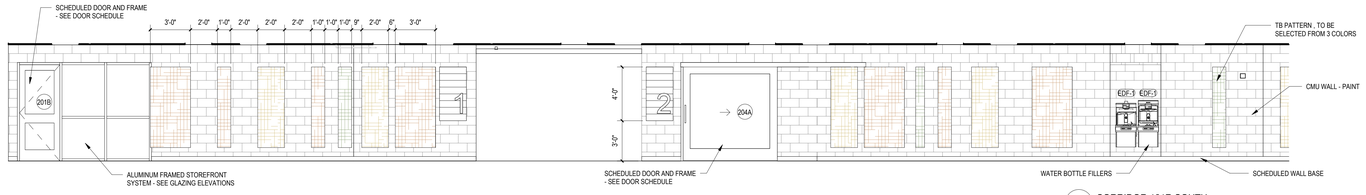


9 CORRIDOR 121R SOUTH
1/4" = 1'-0" A-102C

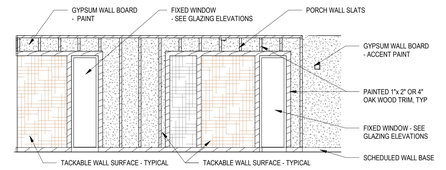
4 PORCH 218 EAST
1/4" = 1'-0" A-102B



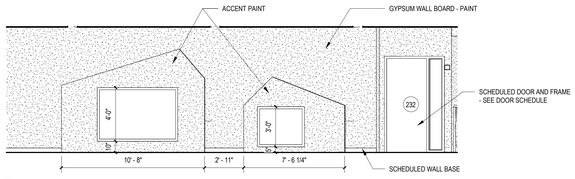
11 INTERVENTION OFFICE CASEWORK ELEVATION
1/4" = 1'-0" A-102C



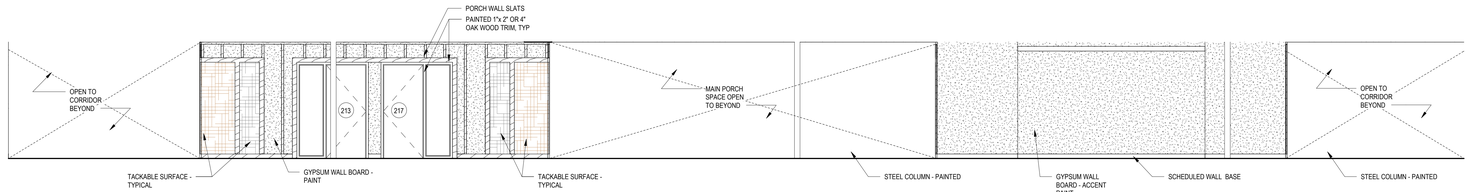
8 CORRIDOR 121R SOUTH
1/4" = 1'-0" A-102C



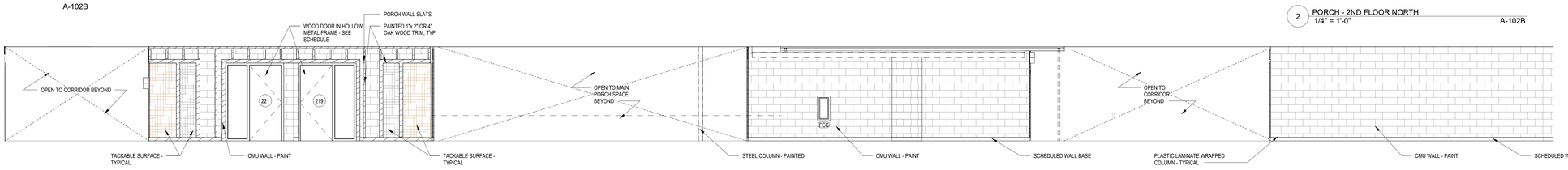
3 PORCH 218 WEST
1/4" = 1'-0" A-102B



10 MEDIA CENTER
1/4" = 1'-0" A-102B



2 PORCH - 2ND FLOOR NORTH
1/4" = 1'-0" A-102B



1 PORCH - 2ND FLOOR SOUTH
1/4" = 1'-0" A-102C

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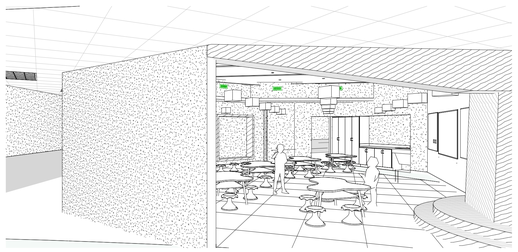
REVIEWED BY	ZC

INTERIOR ELEVATIONS

A-214

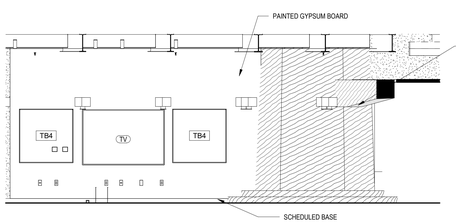
BIDDING



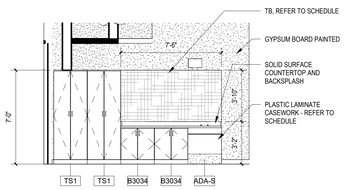
11 PERSPECTIVE DISCOVERY SPACE



10 PERSPECTIVE DISCOVERY SPACE



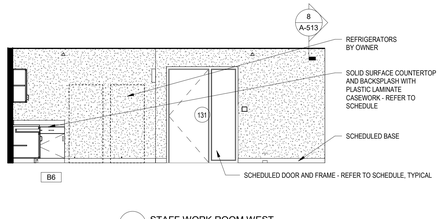
9 DISCOVER SPACE WALL TEACHING
1/4" = 1'-0" A-101B



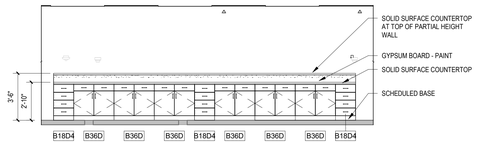
8 DISCOVERY SPACE WALL CASEWORK
1/4" = 1'-0" A-101B



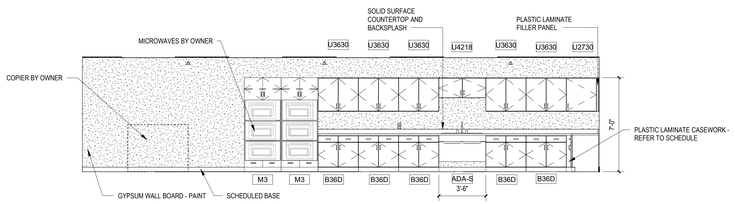
4 ISOMETRIC VIEW PORCH FIRST FLOOR



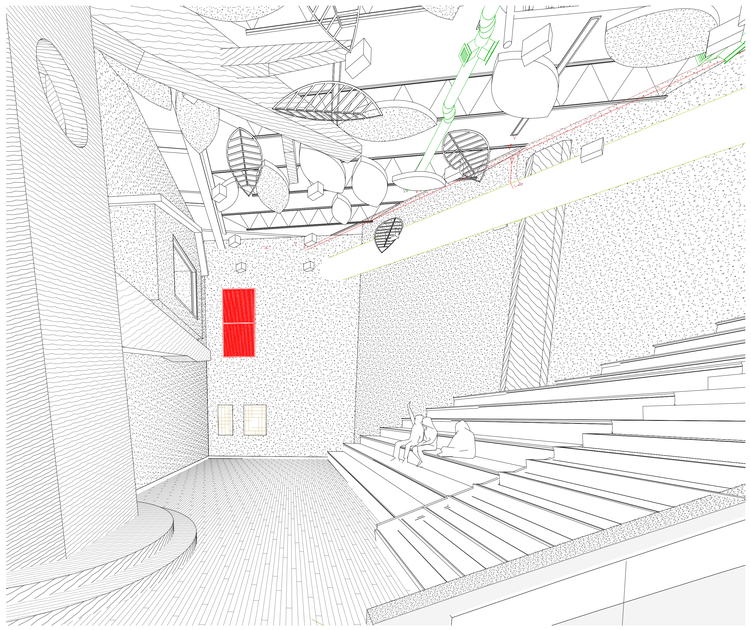
7 STAFF WORK ROOM WEST
1/4" = 1'-0" A-101C



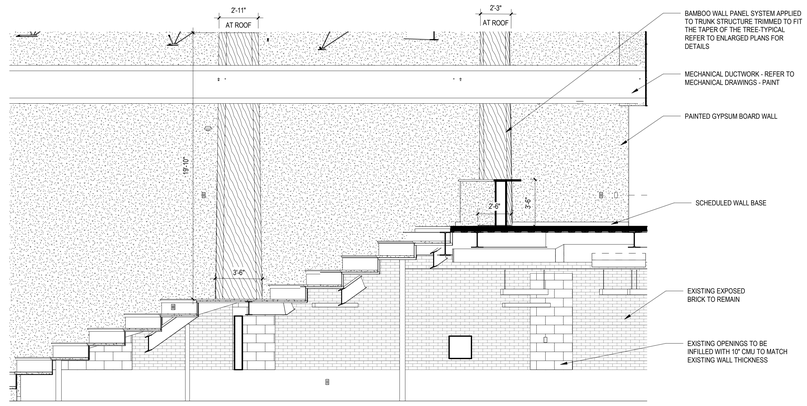
6 STAFF WORK ROOM ISLAND
1/4" = 1'-0" A-101C



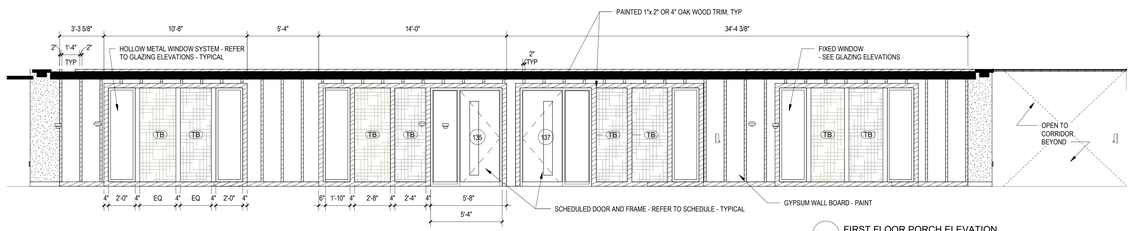
5 STAFF WORK ROOM SOUTH
1/4" = 1'-0" A-101C



3 PERSPECTIVE LEARNING STAIR



2 LEARNING STAIR STAIR WALL
1/4" = 1'-0" A-101B



1 FIRST FLOOR PORCH ELEVATION
1/4" = 1'-0" A-101B

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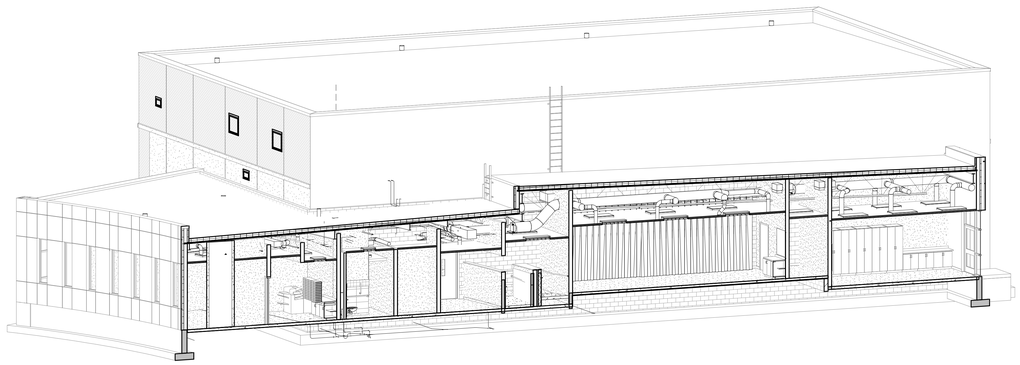
REVIEWED BY	ZC

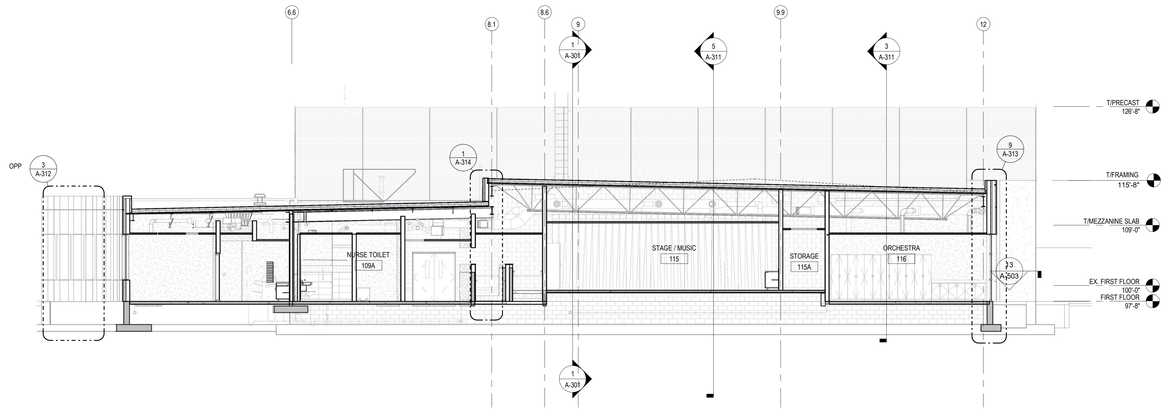
INTERIOR ELEVATIONS

A-215

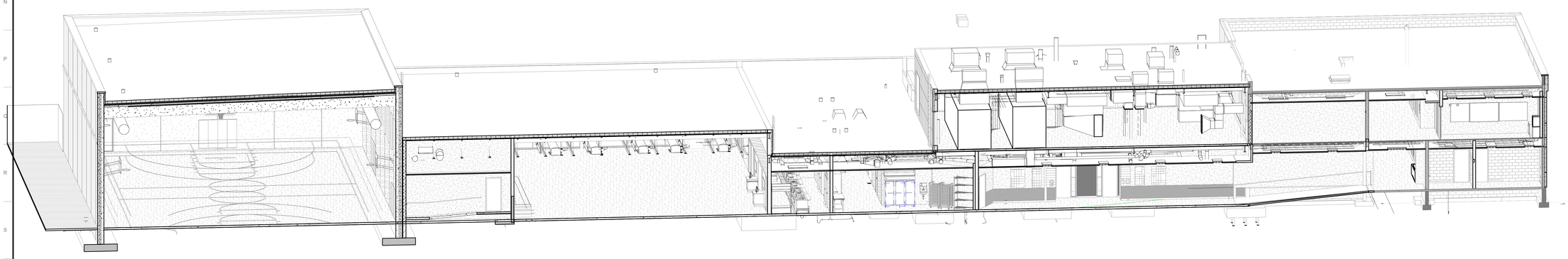
BIDDING



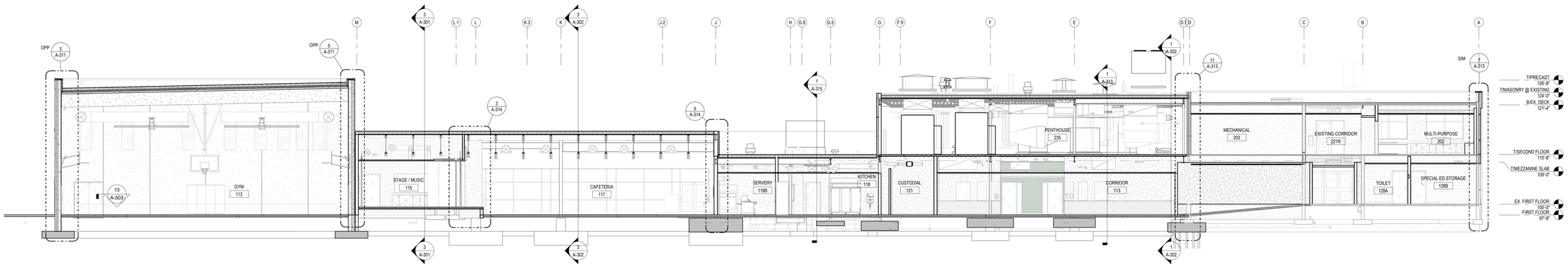
4 AXONOMETRIC



3 BUILDING SECTION
1/8" = 1'-0" A-101A



2 AXONOMETRIC



1 BUILDING SECTION
1/8" = 1'-0" A-101A

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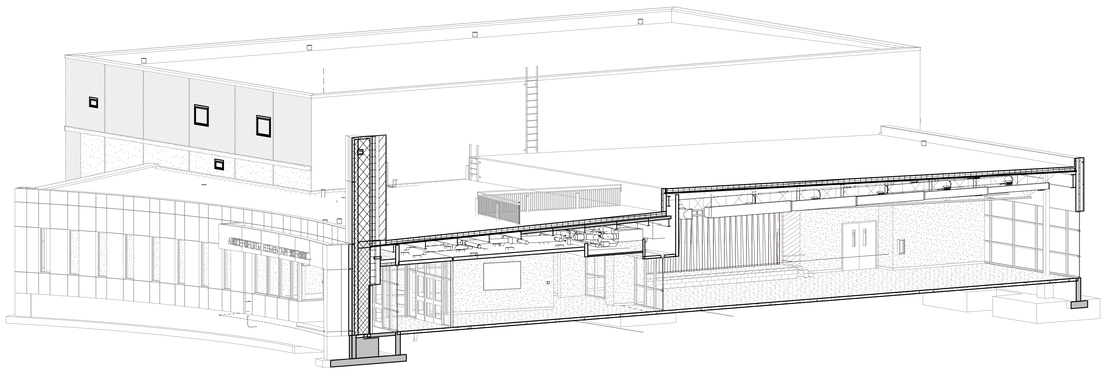
REVIEWED BY	ZC

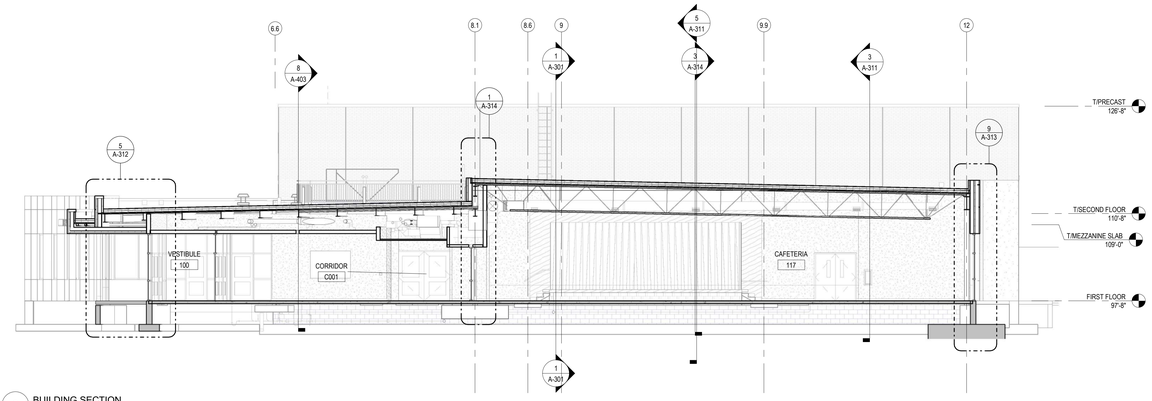
BUILDING SECTIONS

A-301

BIDDING

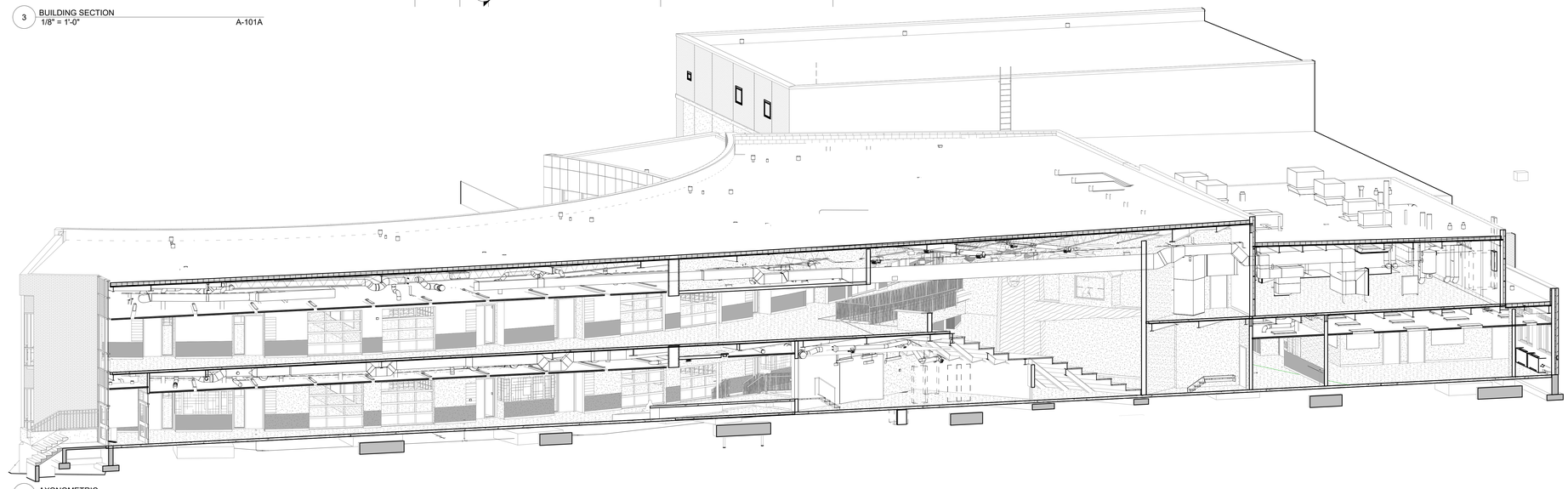


4 AXONOMETRIC



3 BUILDING SECTION
1/8" = 1'-0"

A-101A



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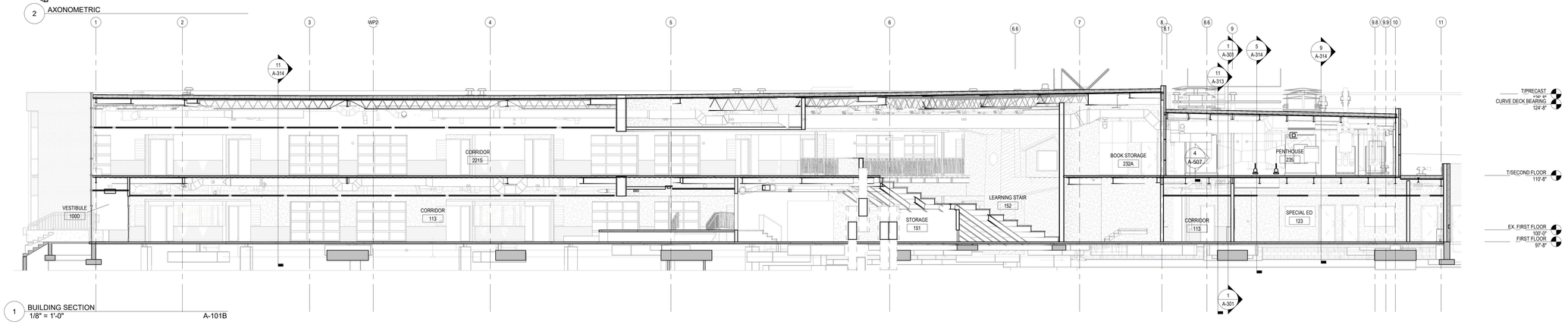

1 BUILDING SECTION
1/8" = 1'-0"

A-101B

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

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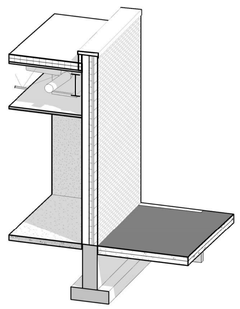
NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	VP
REVIEWED BY	ZC

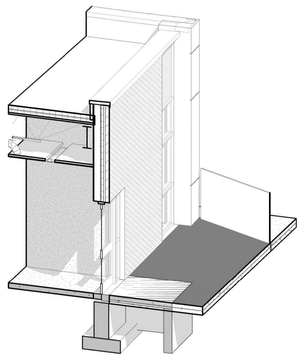
BUILDING SECTIONS

A-302

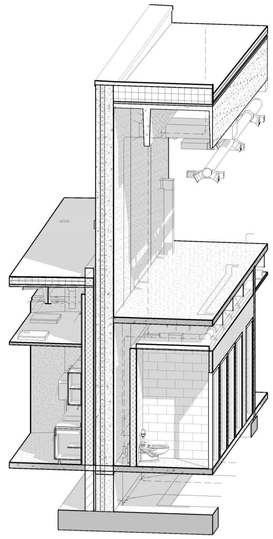
BIDDING



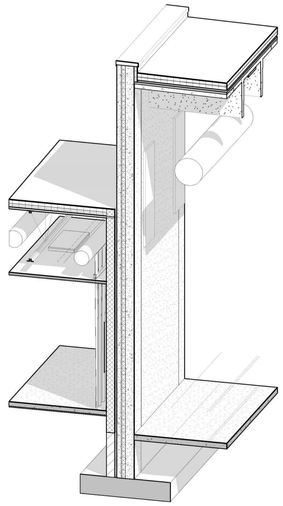
12 AXON - BRICK @ ADMIN



10 AXON - BRICK ALUM @ ADMIN



8 AXONOMETRIC



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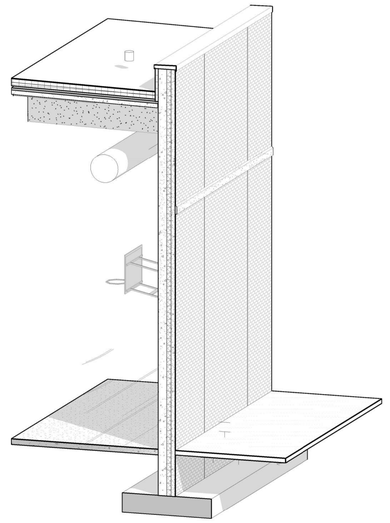

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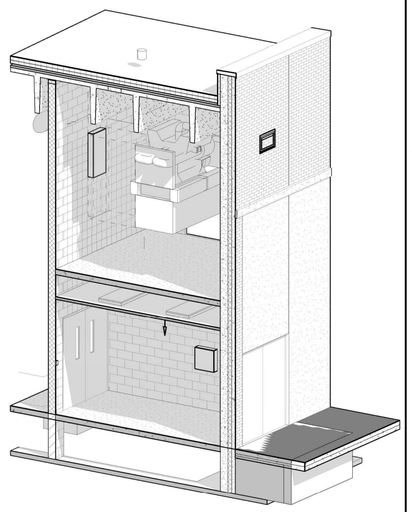

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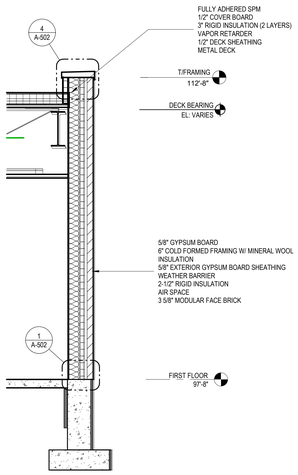
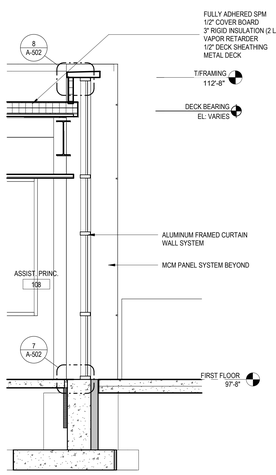
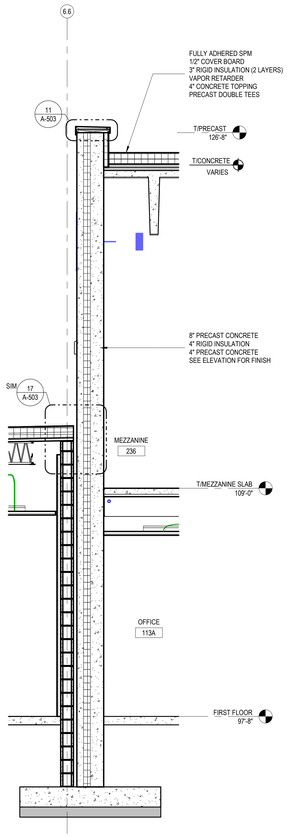


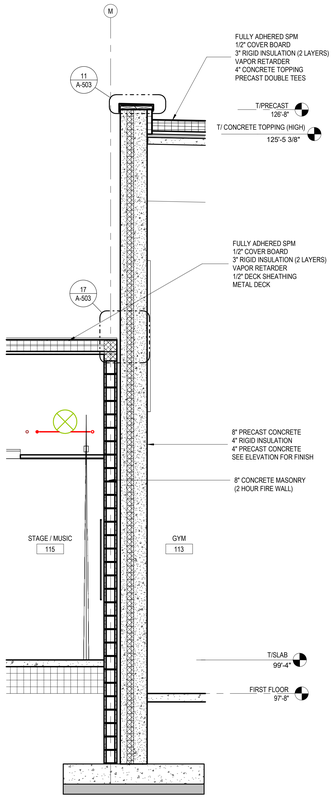
11 WALL SECTION
3/8" = 1'-0"
A-101A



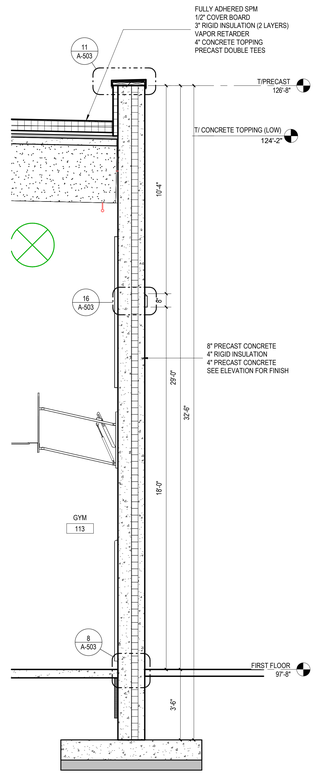
9 WALL SECTION
3/8" = 1'-0"
A-101A



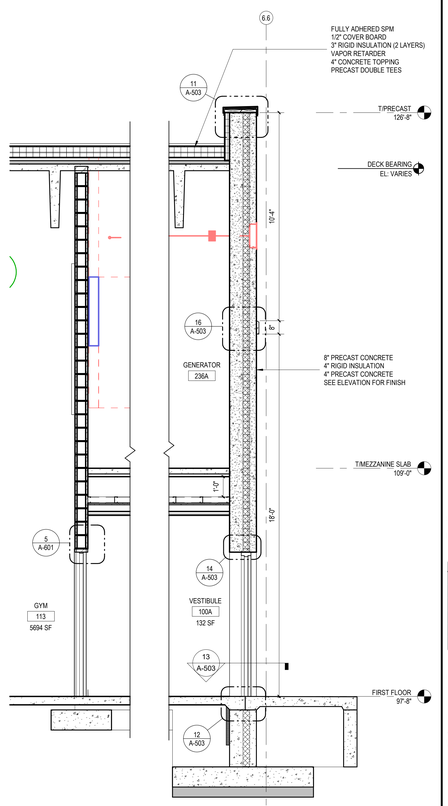
7 WALL SECTION
3/8" = 1'-0"
A-101A



5 WALL SECTION
3/8" = 1'-0"
A-101A



3 WALL SECTION
3/8" = 1'-0"
A-101A



1 WALL SECTION
3/8" = 1'-0"
A-101A

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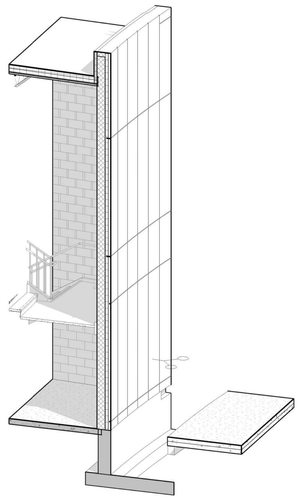
REVIEWED BY	ZC

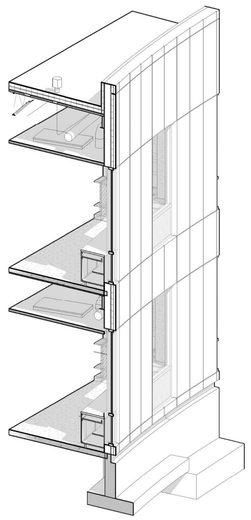
WALL SECTIONS

A-311

BIDDING



12 AXONOMETRIC



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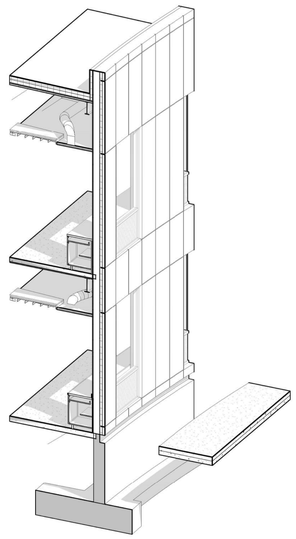

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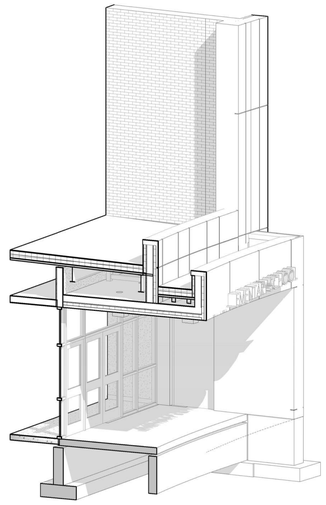

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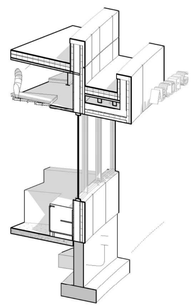

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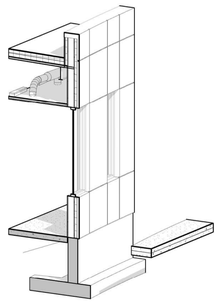

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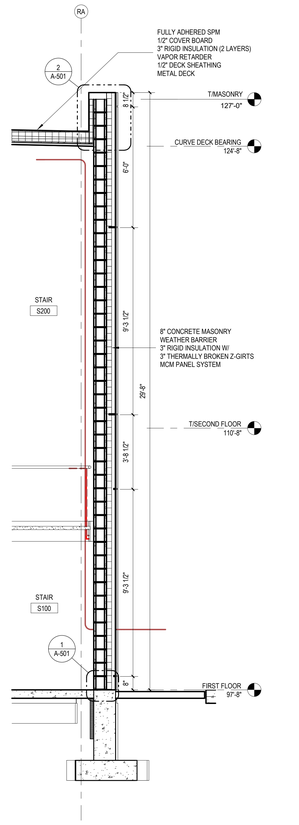
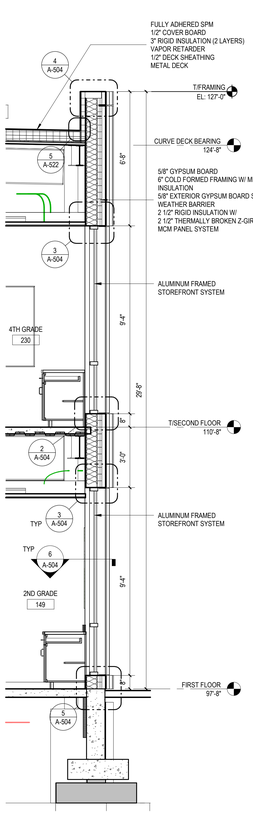
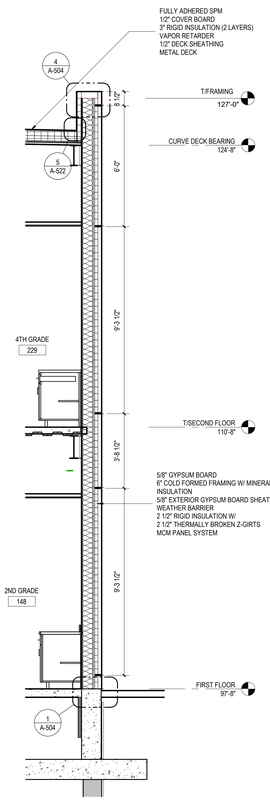


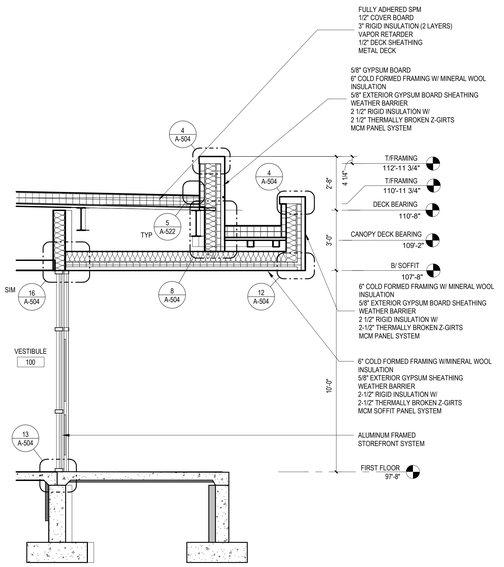
11 WALL SECTION
3/8" = 1'-0"
A-101B



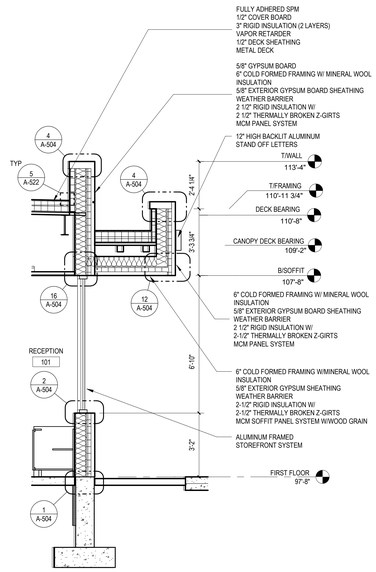
9 WALL SECTION
3/8" = 1'-0"
A-101B



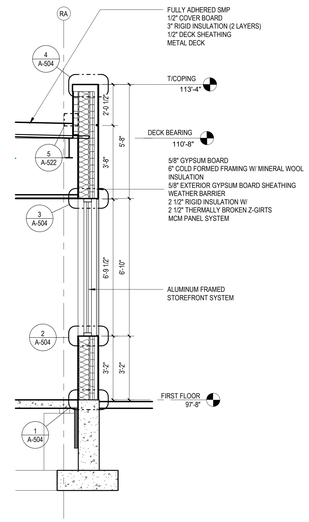
7 WALL SECTION
3/8" = 1'-0"
A-101B



5 WALL SECTION
3/8" = 1'-0"
A-101A



3 WALL SECTION
3/8" = 1'-0"
A-101A



1 WALL SECTION
3/8" = 1'-0"
A-101A

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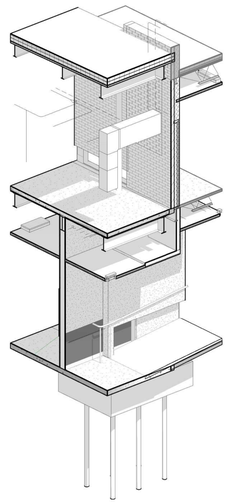
REVIEWED BY	ZC

WALL SECTIONS

A-312

BIDDING



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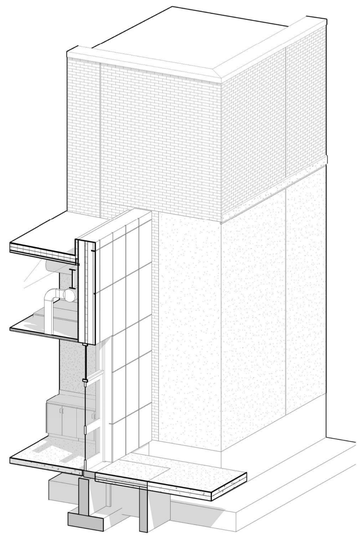

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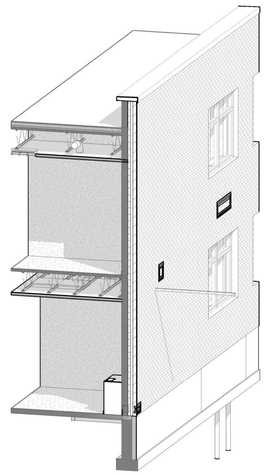

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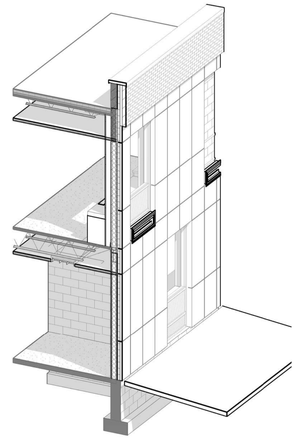

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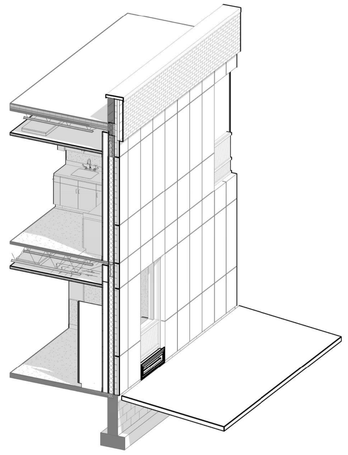

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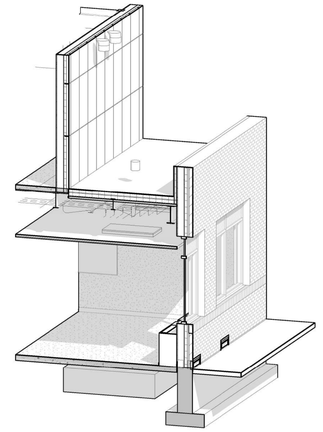

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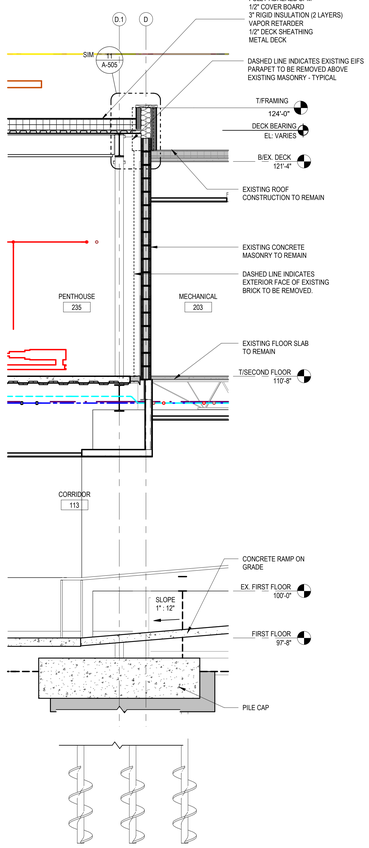
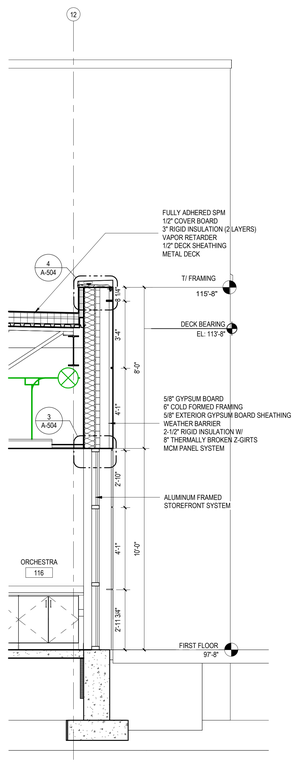
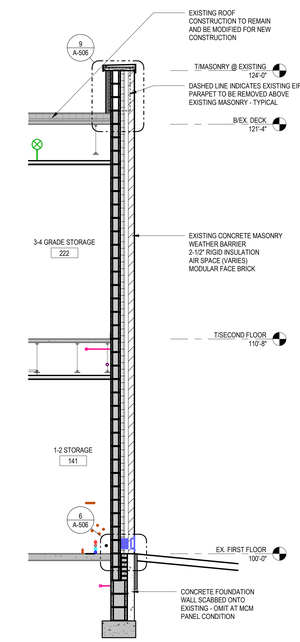


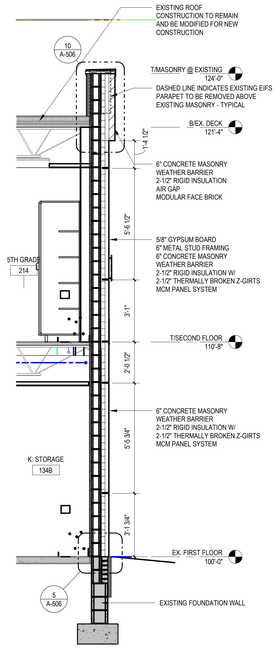
11 WALL SECTION 3/8" = 1'-0" A-101B



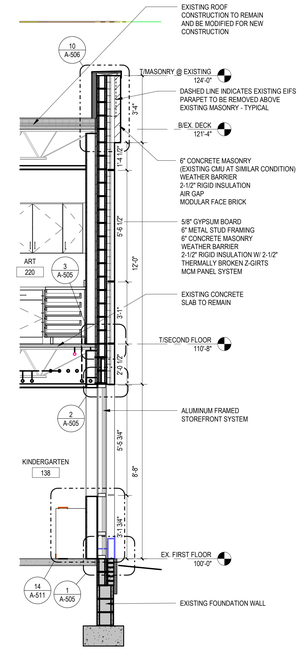
9 WALL SECTION 3/8" = 1'-0" A-101A



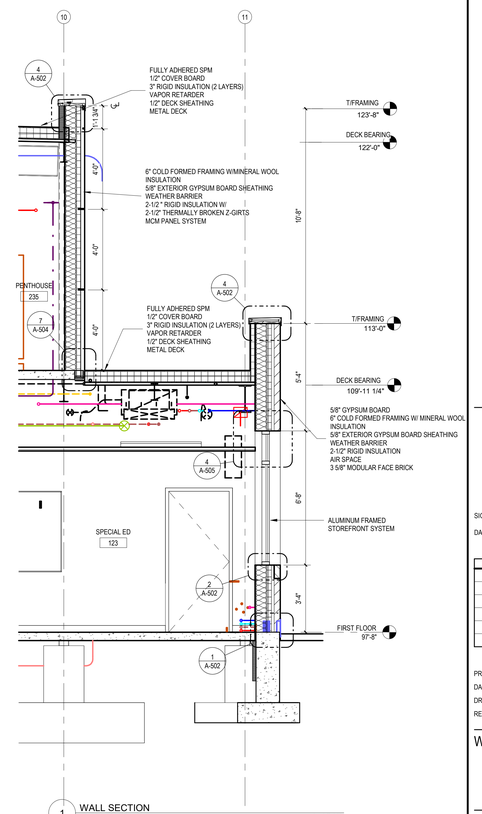
7 WALL SECTION 3/8" = 1'-0" A-101B



5 WALL SECTION 3/8" = 1'-0" A-101C



3 WALL SECTION 3/8" = 1'-0" A-101C



1 WALL SECTION 3/8" = 1'-0" A-101B

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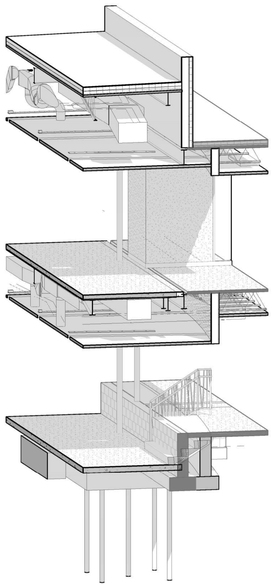
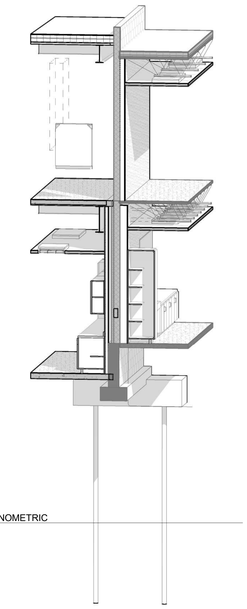
WALL SECTIONS

A-313

BIDDING



12 AXONOMETRIC



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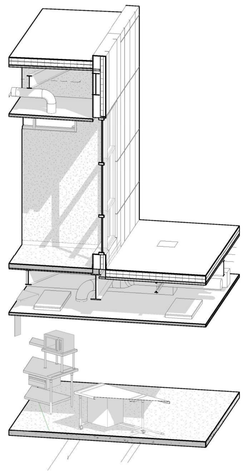
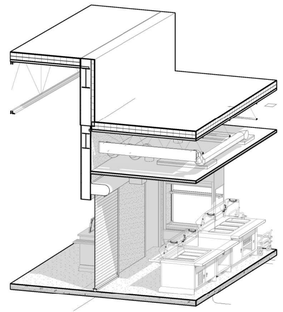


8 AXONOMETRIC



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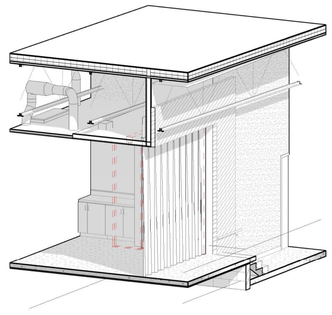

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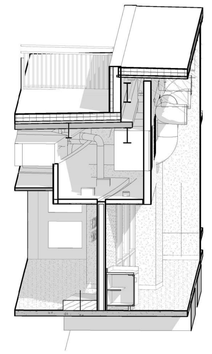
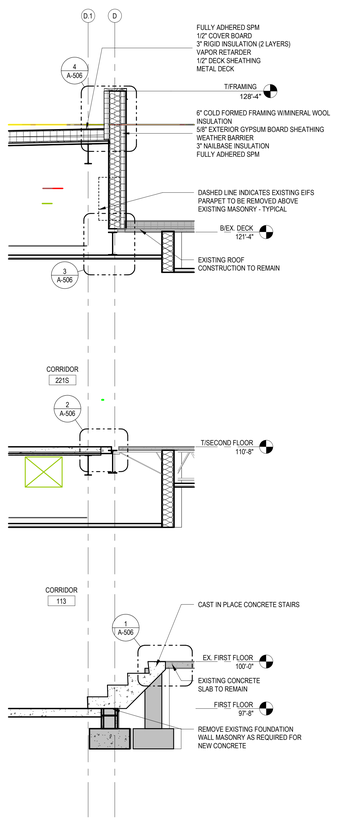
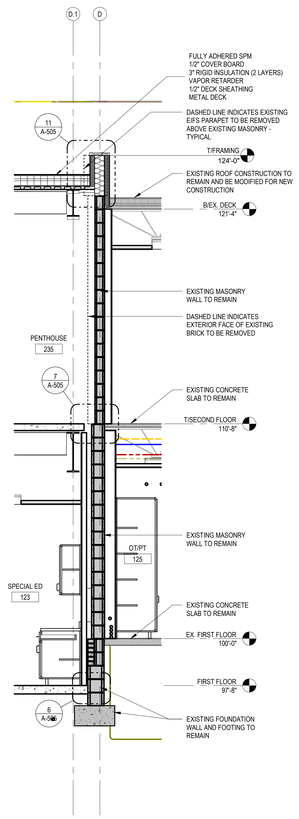


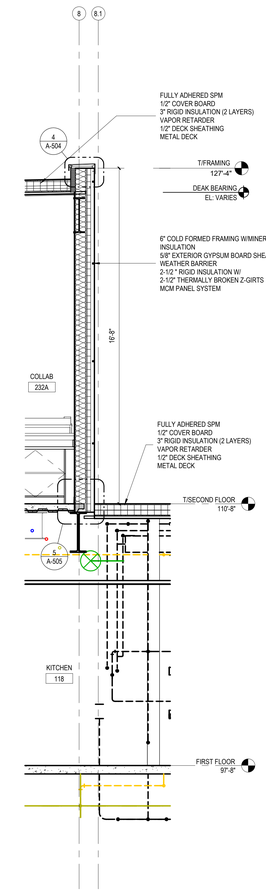
2 AXONOMETRIC



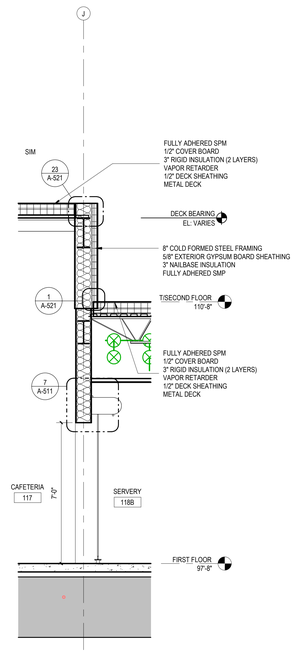
11 WALL SECTION
3/8" = 1'-0"
A-101B



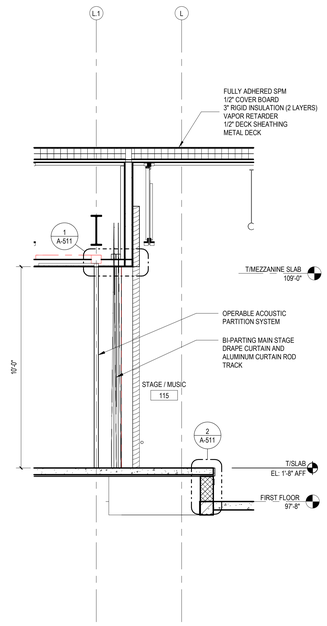
9 WALL SECTION
3/8" = 1'-0"
A-101B



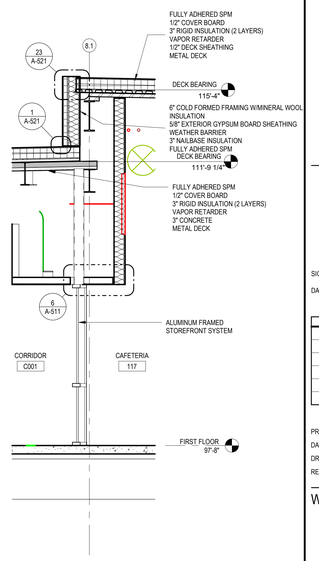
7 WALL SECTION
3/8" = 1'-0"
A-101B



5 WALL SECTION
3/8" = 1'-0"
A-101A



3 WALL SECTION
3/8" = 1'-0"
A-101A



1 WALL SECTION
3/8" = 1'-0"
A-101A

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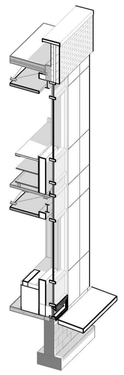
DRAWN BY	VP
REVIEWED BY	ZC

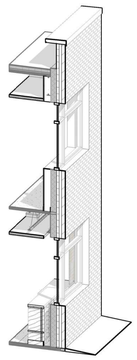
WALL SECTIONS

A-314

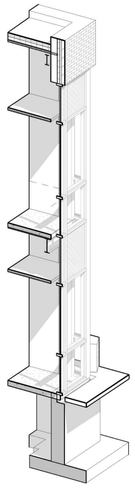
BIDDING



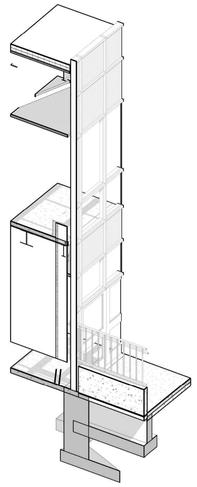
12 AXONOMETRIC



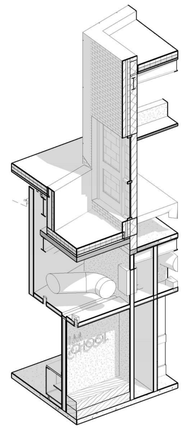
10 AXONOMETRIC



88 AXONOMETRIC



6 AXONOMETRIC



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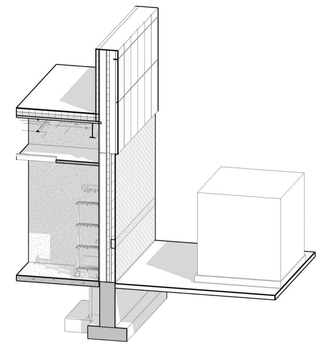
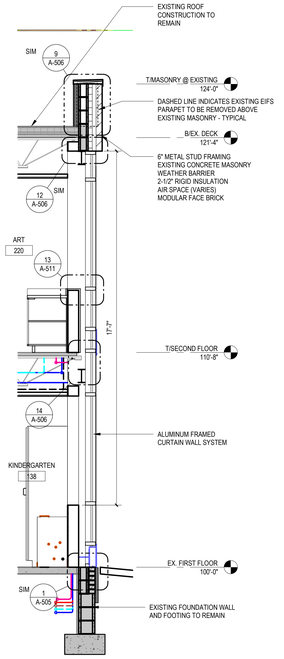
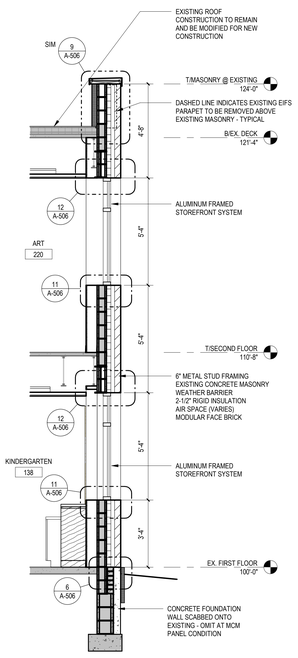


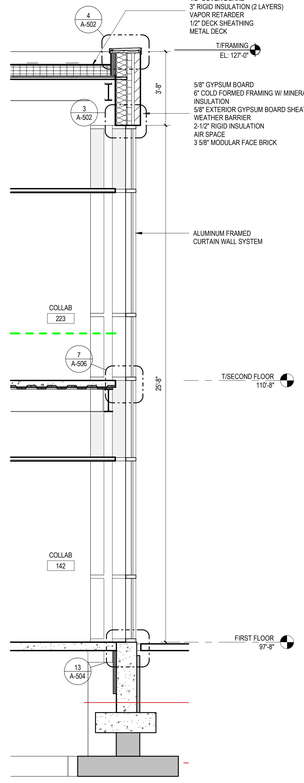
2 AXONOMETRIC



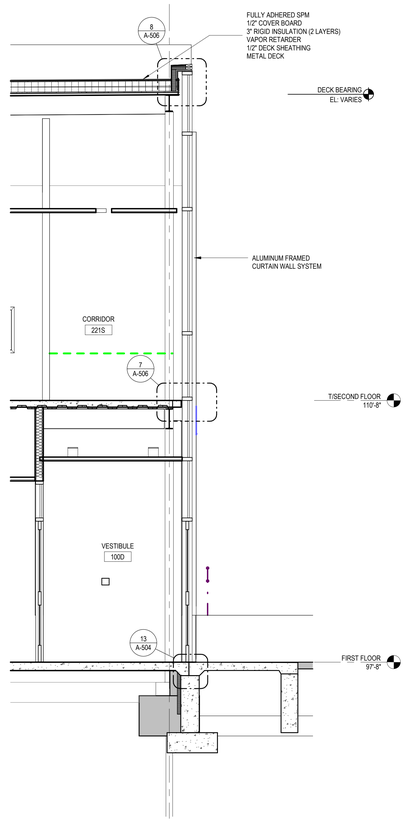
11 WALL SECTION 3/8" = 1'-0" A-101C



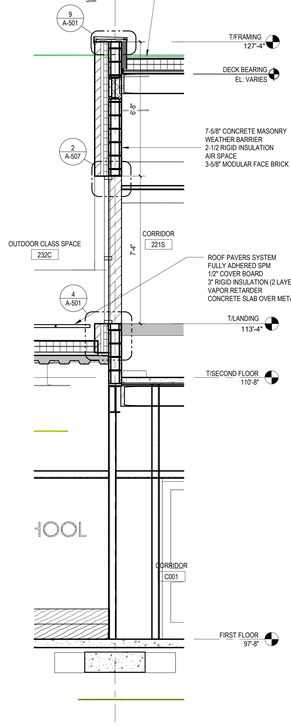
9 WALL SECTION 3/8" = 1'-0" A-101C



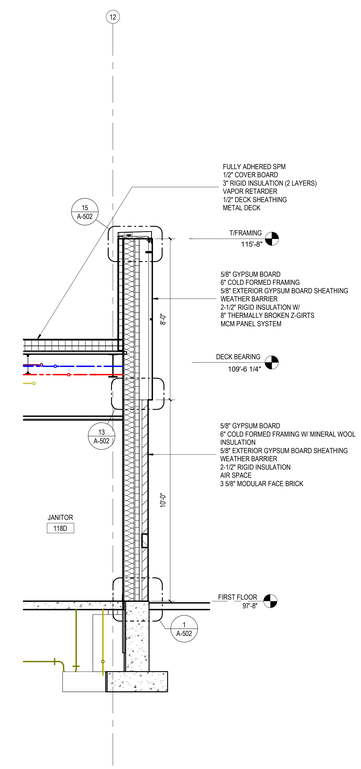
7 WALL SECTION 3/8" = 1'-0" A-101B



5 WALL SECTION 3/8" = 1'-0" A-101B



3 WALL SECTION 3/8" = 1'-0" A-101A



1 WALL SECTION 3/8" = 1'-0" A-101B

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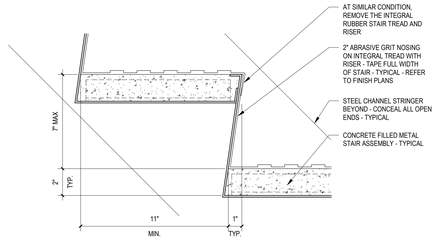
REVIEWED BY	ZC

WALL SECTIONS

A-315

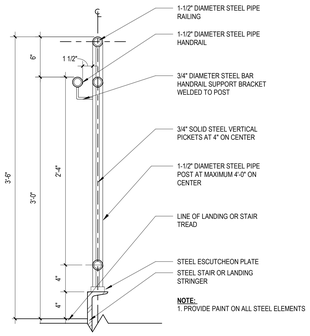
BIDDING



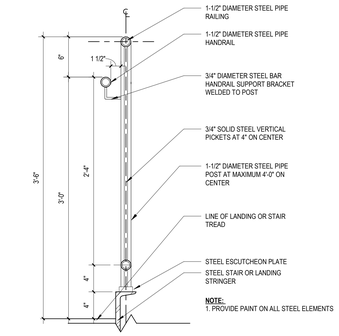
13 SECTION DETAIL - STAIR NOSING
3" = 1'-0" A-401



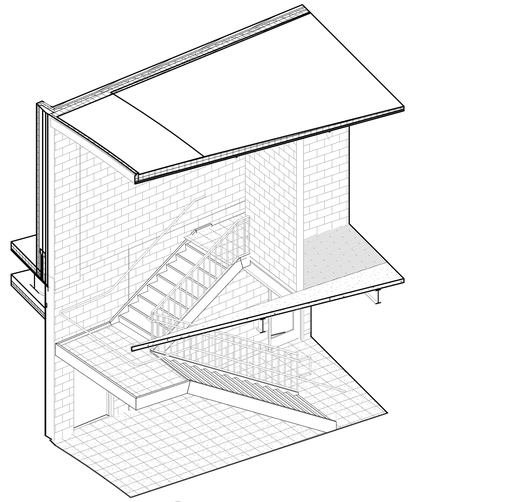
11 SECTION DETAIL - HANDRAIL WALL BRACKET
1 1/2" = 1'-0" A-401



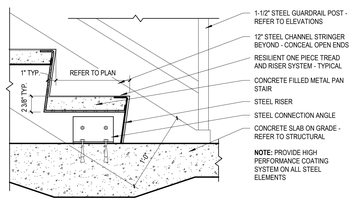
8 TYPICAL STAIR RAILING WITH HANDRAIL- STAIR B
1 1/2" = 1'-0" A-401



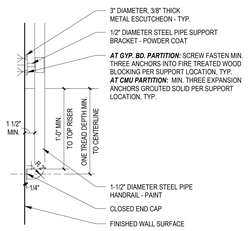
TYPICAL STAIR RAILING WITH HANDRAIL- LEARNING STAIR
5
1 1/2" = 1'-0" A-402



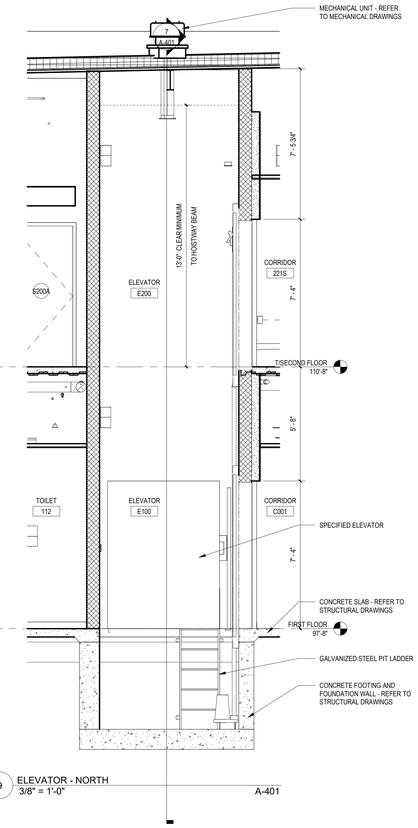
3 3D STAIR S100



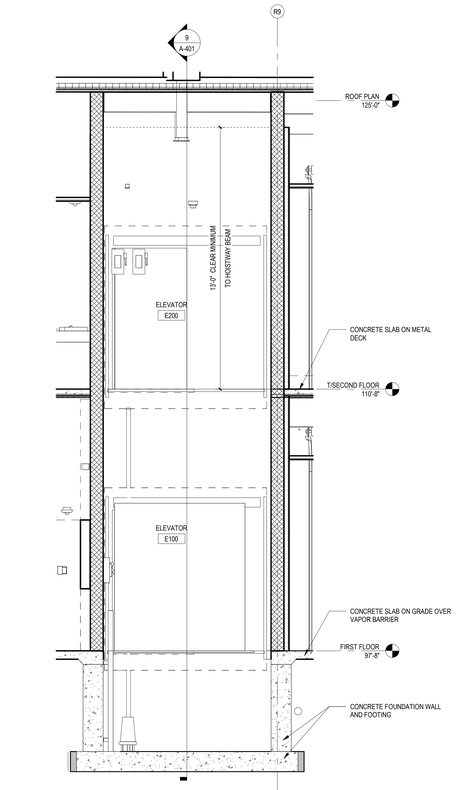
12 TYPICAL STAIR TREAD AT GRADE
1 1/2" = 1'-0" A-401



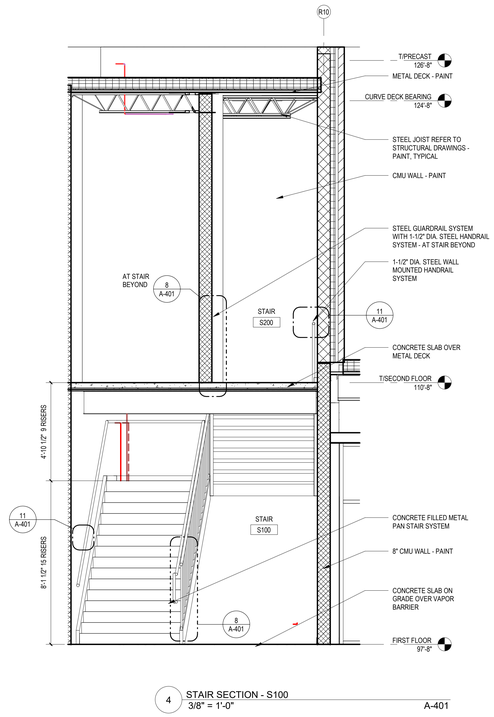
10 PLAN DETAIL - HANDRAIL END CONDITION AT WALL
1 1/2" = 1'-0" A-401



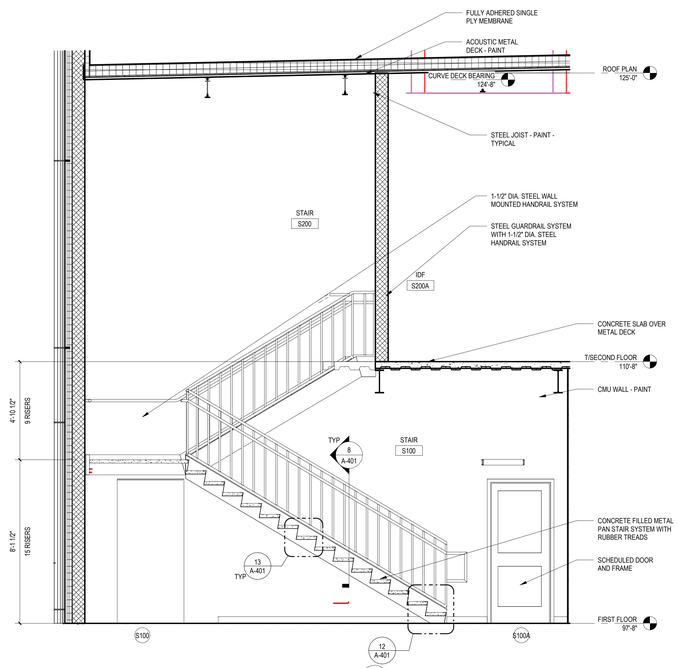
9 ELEVATOR - NORTH
3/8" = 1'-0" A-401



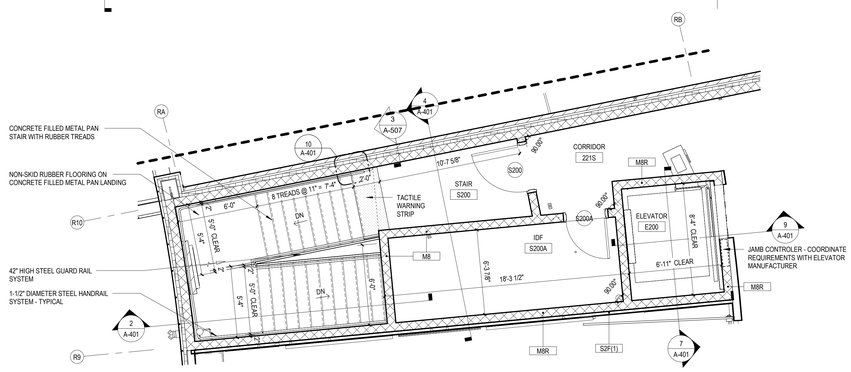
7 ELEVATOR - EAST
3/8" = 1'-0" A-401



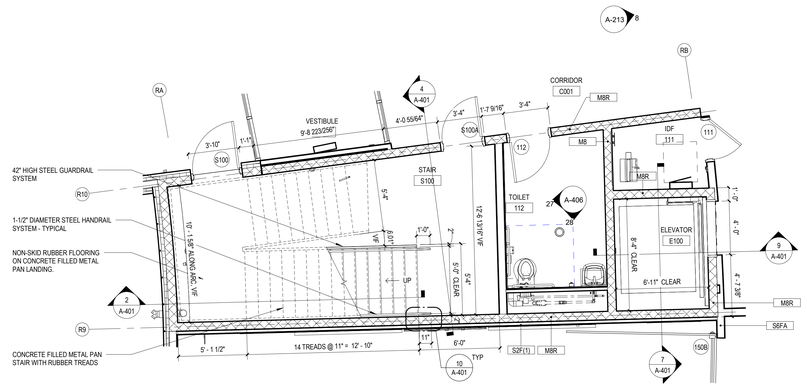
4 STAIR SECTION - S100
3/8" = 1'-0" A-401



2 STAIR SECTION - S100
3/8" = 1'-0" A-401



6 ENLARGED PLAN - STAIR S200
1/4" = 1'-0" A-102B



1 ENLARGED PLAN - STAIR S100
1/4" = 1'-0" A-101B

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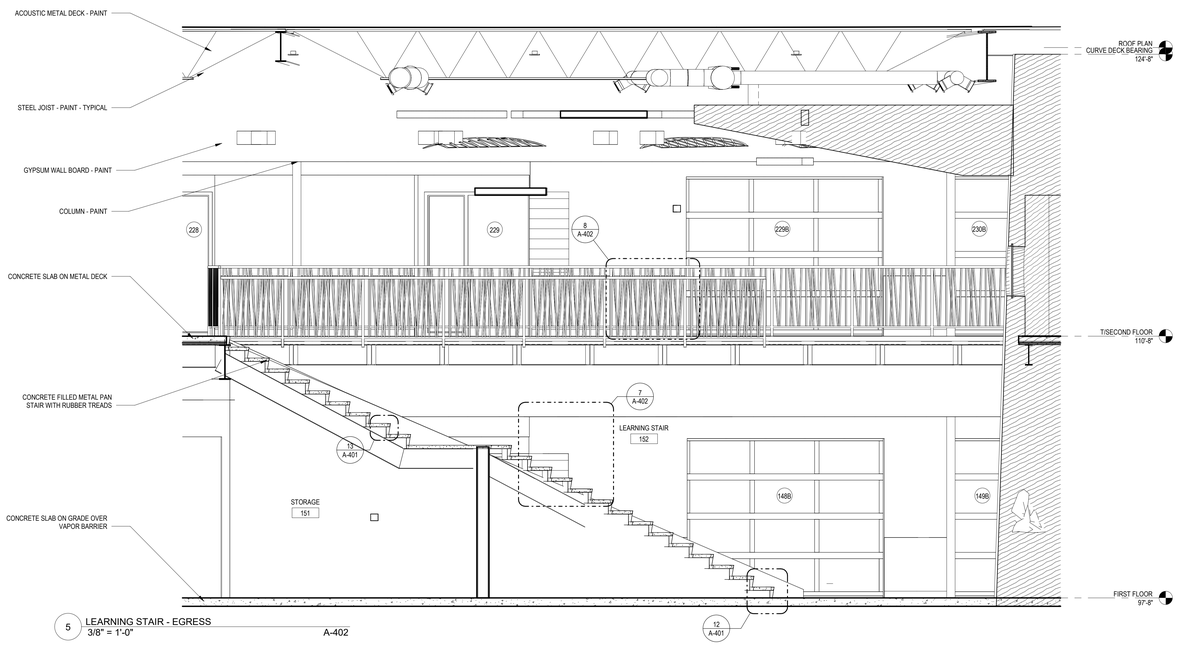
REVIEWED BY	ZC

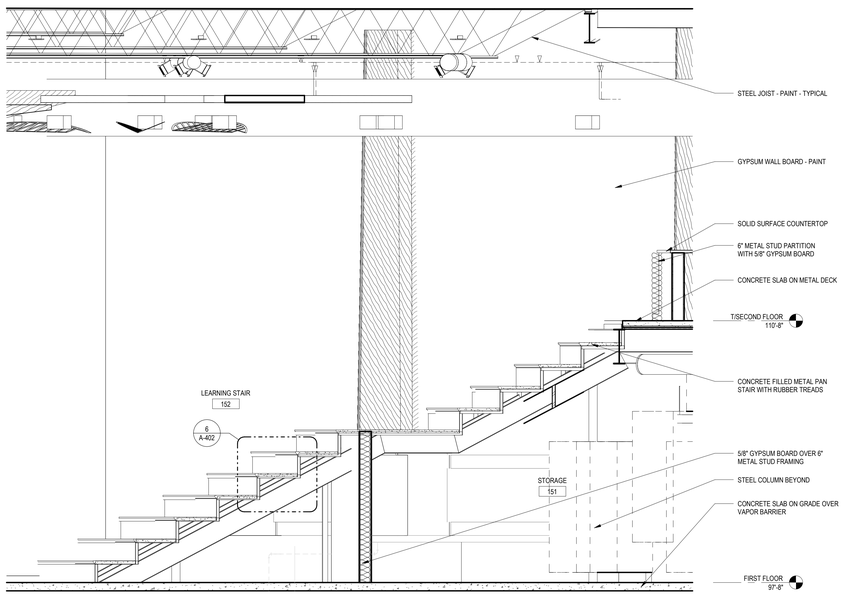
ENLARGED STAIR & HOISTWAY PLANS, SECTIONS & DETAILS

A-401

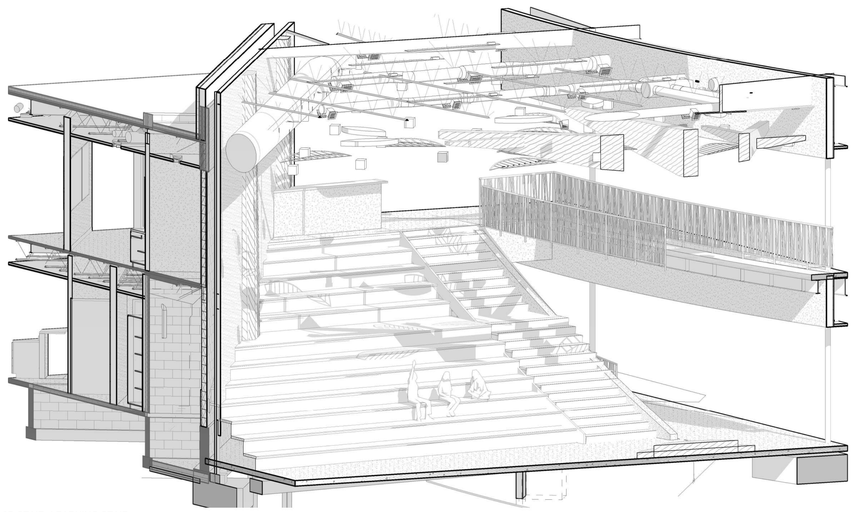
BIDDING



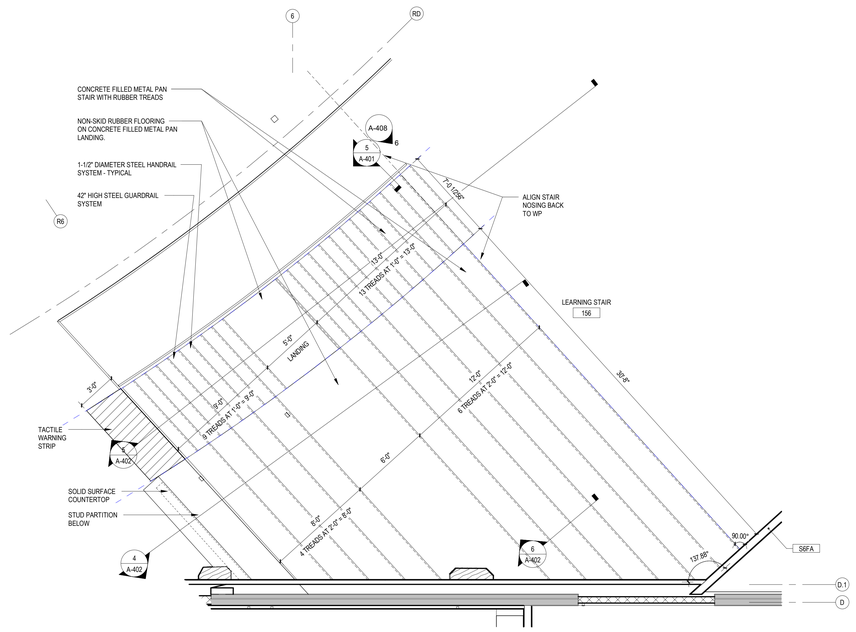
5 LEARNING STAIR - EGRESS
3/8" = 1'-0" A-402



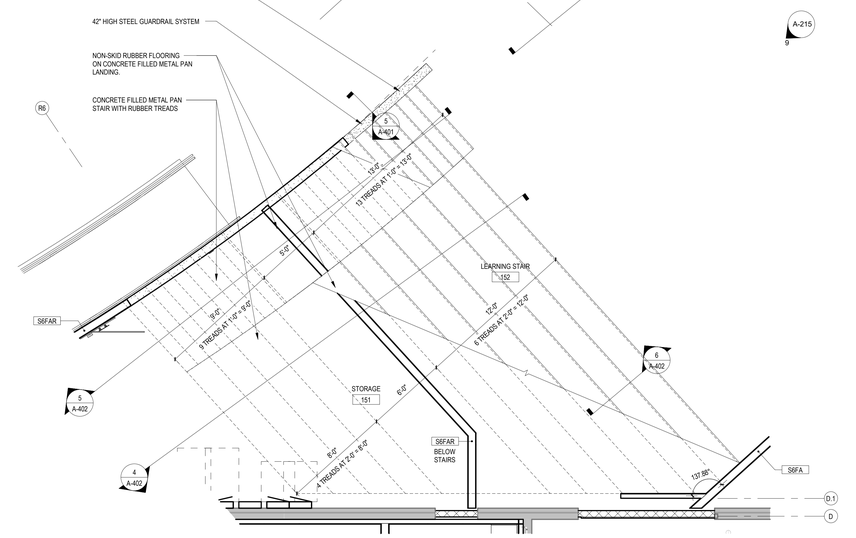
4 LEARNING STAIR
3/8" = 1'-0" A-402



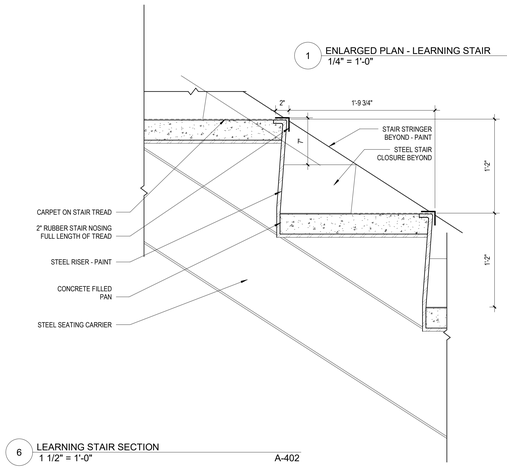
3 3D STAIR -LEARNING STAIR



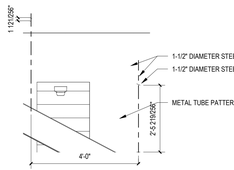
2 LEARNING STAIR - SECOND FLOOR
1/4" = 1'-0" A-102B



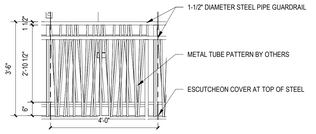
1 ENLARGED PLAN - LEARNING STAIR
1/4" = 1'-0" A-101B



6 LEARNING STAIR SECTION
1 1/2" = 1'-0" A-402



7 GUARDRAIL ELEVATION - LEARNING STAIRS
1/2" = 1'-0" A-402



8 GUARDRAIL ELEVATION - 2ND FLOOR CORRIDOR
1/2" = 1'-0" A-402

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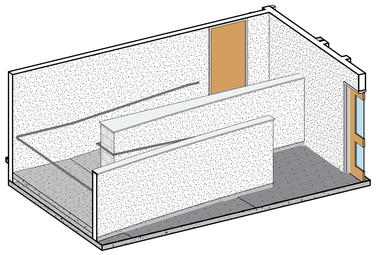
DATE OF ISSUE	10.23.2025
DRAWN BY	BE
REVIEWED BY	ZC

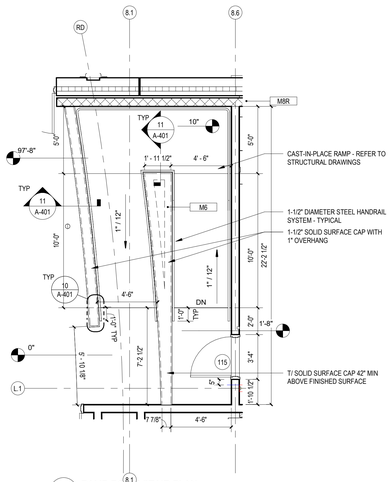
ENLARGED STAIR & HOISTWAY PLANS, SECTIONS & DETAILS

A-402

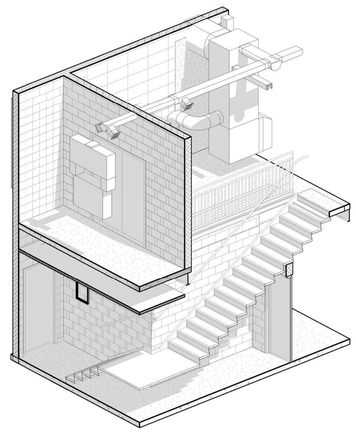
BIDDING



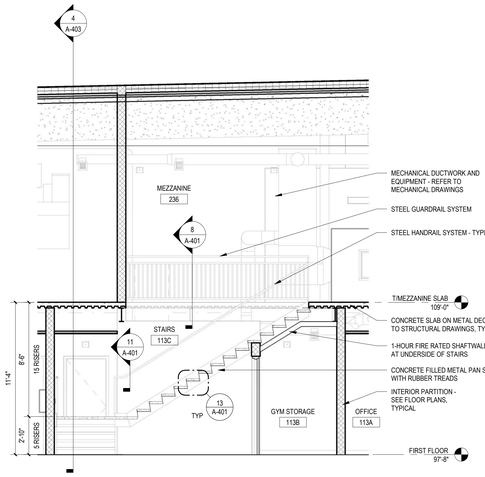
17 RAMP ROOM STAIR PLAN - AXON



15 RAMP ROOM STAIR PLAN
1/4" = 1'-0" A-101A



12 3D MEZZANINE STAIR



8 MEZZANINE STAIR SECTION
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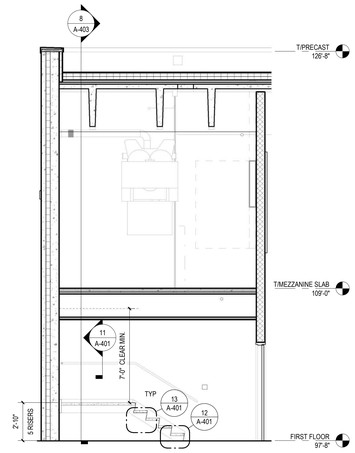
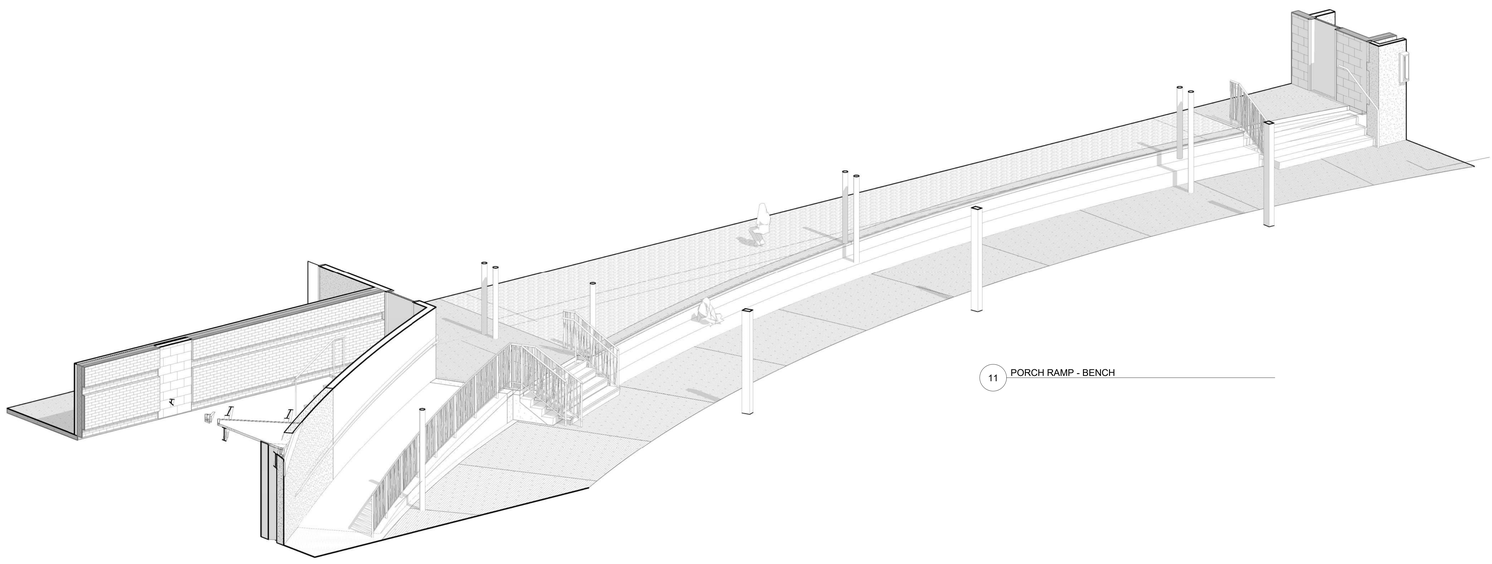
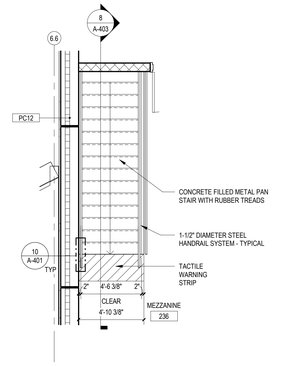


4 MEZZANINE STAIR SECTION 2
1/4" = 1'-0" A-403



11 PORCH RAMP - BENCH



7 MEZZANINE STAIR - SECOND
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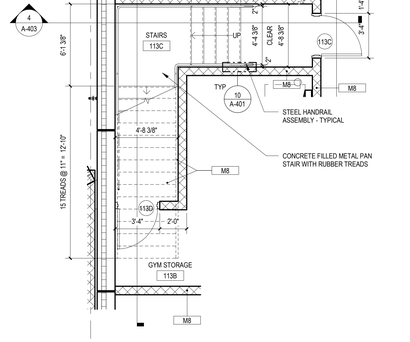

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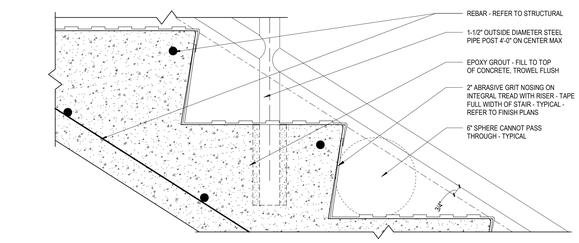
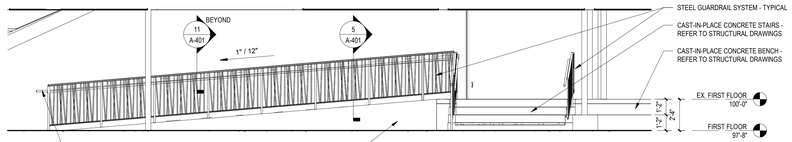


14 SECTION DETAIL - CONCRETE STAIR NOSING
3" = 1'-0" A-403



10 INTERIOR ELEVATION - RAMP PORCH
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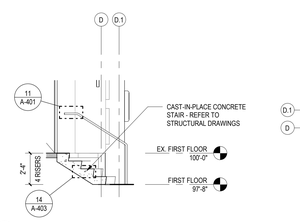

16 STAIR SECTION
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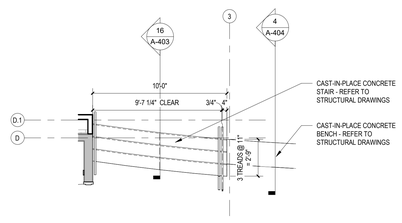
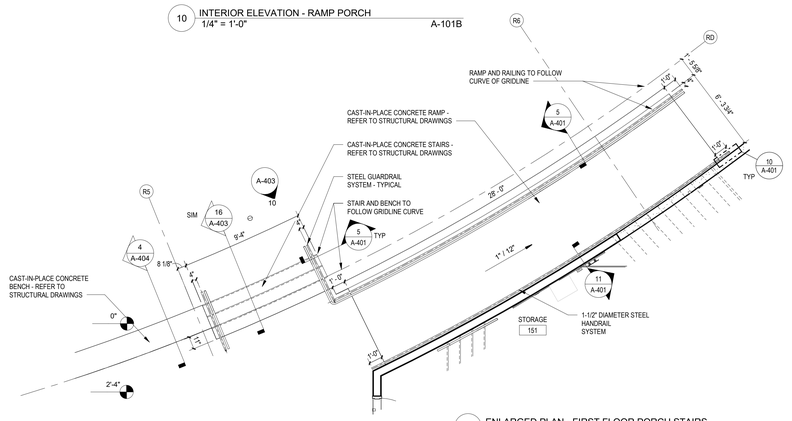
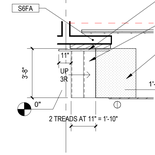


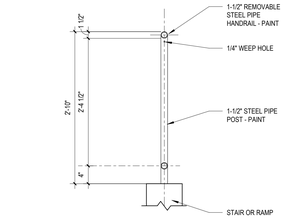
13 01 FIRST FLOOR MOD C (Existing) - Callout 1
1/4" = 1'-0" A-101C



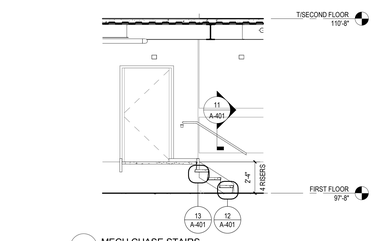
9 ENLARGED PLAN - FIRST FLOOR PORCH STAIRS
1/4" = 1'-0" A-101B



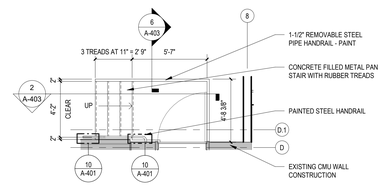
5 STAGE STAIR PLAN
1/4" = 1'-0" A-101A



6 GUARDRAIL SECTION
1" = 1'-0" A-403



2 MECH CHASE STAIRS
1/4" = 1'-0" A-403



1 MECH CHASE STAIR PLAN
1/4" = 1'-0" A-101B

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

1015 16th Avenue
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CONSTRUCTION MANAGER
Estes Construction
131 W 2nd Street, Suite 400
Davenport, IA 52803
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SIGNATURE

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REVISIONS

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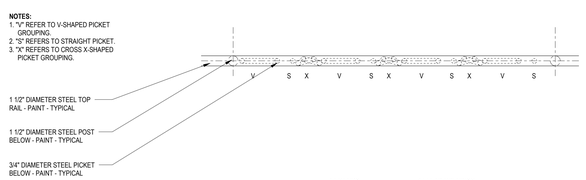
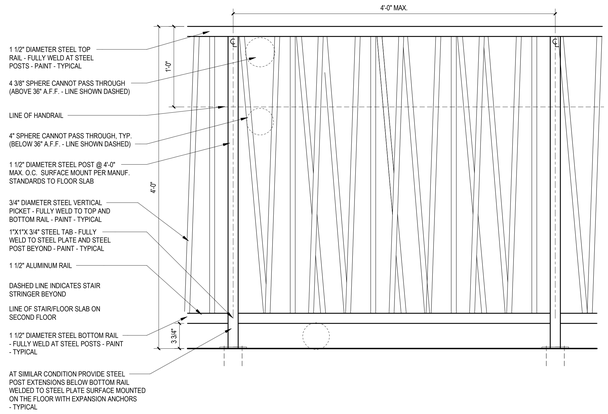
ENLARGED STAIR & HOISTWAY PLANS, SECTIONS & DETAILS

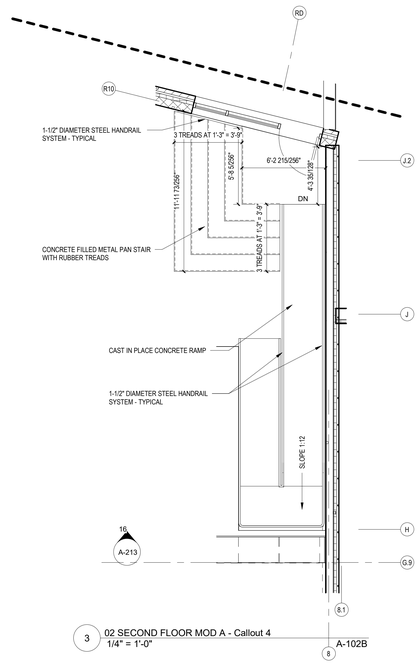
A-403

BIDDING





5 TYPICAL GUARDRAIL ELEVATION - MAIN STAIR
1 1/2" = 1'-0"



3 02 SECOND FLOOR MOD A - Callout 4
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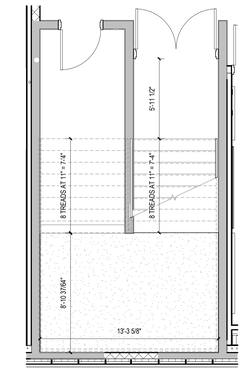

2 ENLARGED PLAN - TYPICAL EXISTING STAIR
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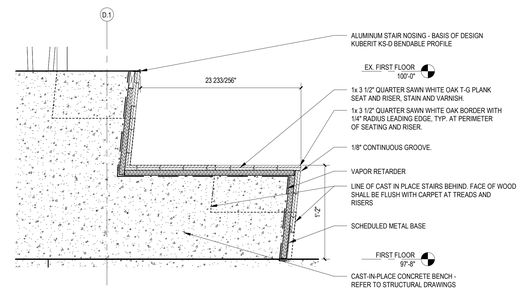
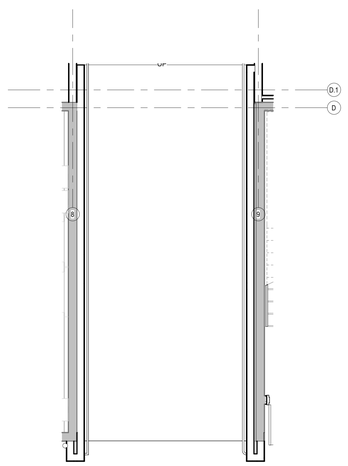


4 PORCH STAIR SECTION
1 1/2" = 1'-0" A-101B



1 01 FIRST FLOOR MOD C (Existing) - Callout 2
1/4" = 1'-0" A-101C

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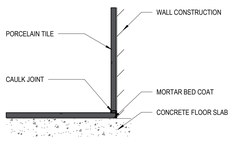
ENLARGED STAIR & HOISTWAY PLANS, SECTIONS & DETAILS

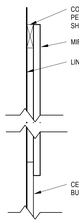
A-404

BIDDING

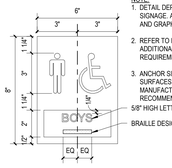
ABBREVIATIONS	
AP	ACCESS PANEL
ASV	ACCESSIBLE SHOWER VALVE ASSEMBLY
DCS	DIAPER CHANGING STATION
EWC	ELECTRIC WATER COOLER/BOTTLE FILLER STATION
GB1	36" STAINLESS STEEL GRAB BAR
GB2	42" STAINLESS STEEL GRAB BAR
GB3	18" STAINLESS STEEL GRAB BAR
GB4	24" STAINLESS STEEL GRAB BAR ASSEMBLY IN ADA SHOWER
HD	HAND DRYER
L1	ADA ACCESSIBLE LAVATORY
L2	ADA ACCESSIBLE MULTI-BOWN LAVATORY JUVENILE HEIGHT LAVATORY
M1	20" X 30" MIRROR, REFER TO 20/A-405 FOR INSTALLATION
PT	PAPER TOWEL DISPENSER
S1	KITCHEN SINK - SINGLE BOWL
S2	KITCHEN SINK - DOUBLE BOWL
SC	SHOWER CURTAIN
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SS	FOLDING ACCESSIBLE SHOWER SEAT
TT	TOILET TISSUE DISPENSER
WC1	WATER CLOSET - JUVENILE HEIGHT
WC2	WATER CLOSET
WC3	WATER CLOSET - ADA



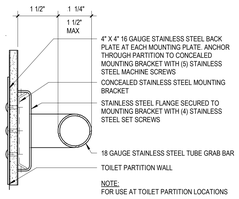
21 PORCELAIN TILE BASE DETAIL
3" = 1'-0"



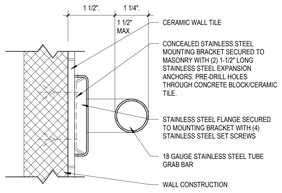
20 DETAIL AT MIRROR
3" = 1'-0"



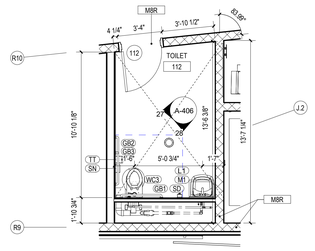
19 TYPICAL TOILET ROOM SIGNAGE
3" = 1'-0"



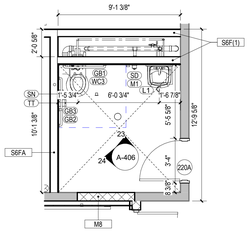
18 GRAB BAR MOUNTING DETAIL
3" = 1'-0"



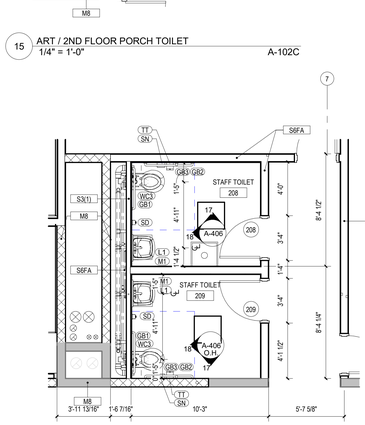
17 GRAB BAR DETAIL
3" = 1'-0"



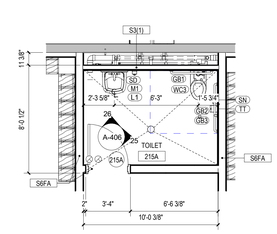
16 ENLARGED PLAN - LOBBY BATHROOM
1/4" = 1'-0" A-101B



15 ART / 2ND FLOOR PORCH TOILET
1/4" = 1'-0" A-102C



14 2ND FLOOR STAFF TOILETS
1/4" = 1'-0" A-102C



12 ENLARGED PLAN - TYPICAL MOD C CLASS TOILET ROOM
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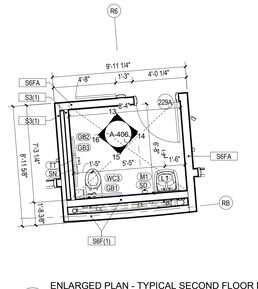
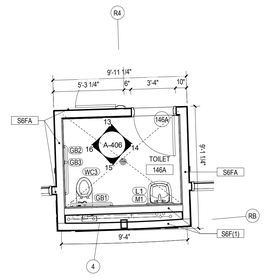


11 ENLARGED PLAN - TYPICAL SECOND FLOOR MOD B CLASS TOILET ROOM
1/4" = 1'-0" A-102B



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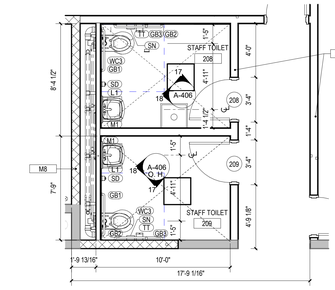
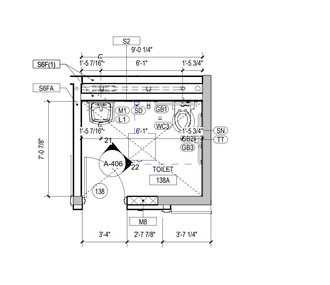
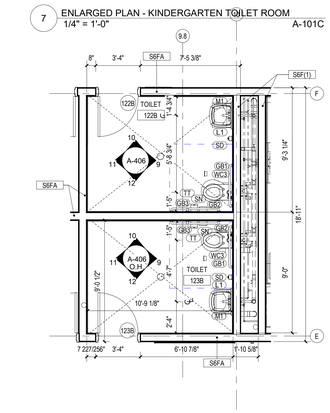


8 ENLARGED PLAN - SECOND FLOOR STAFF TOILETS
1/4" = 1'-0" A-101B



7 ENLARGED PLAN - KINDERGARTEN TOILET ROOM
1/4" = 1'-0" A-101C



6 ENLARGED PLAN - SPECIAL ED TOILETS
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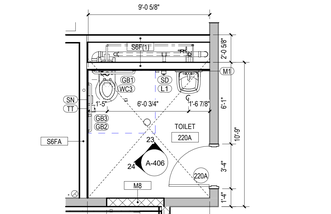

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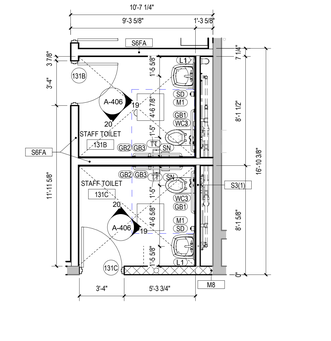

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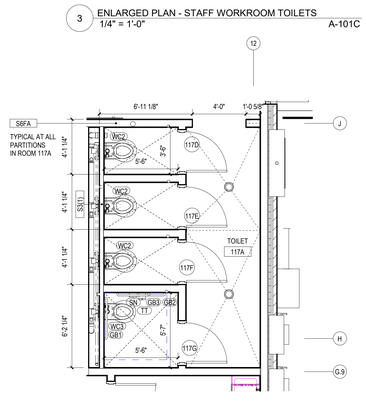
1/4" = 1'-0" A-101C



2 ENLARGED PLAN - CAFETERIA TOILET ROOMS
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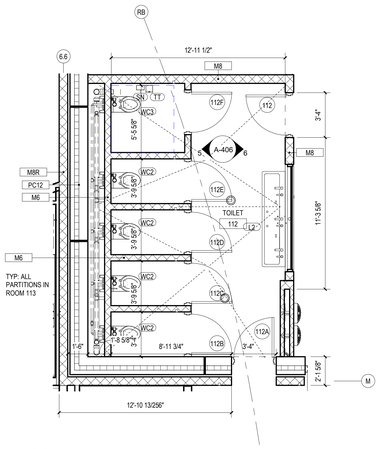

9 ENLARGED PLAN - GYM TOILET ROOMS
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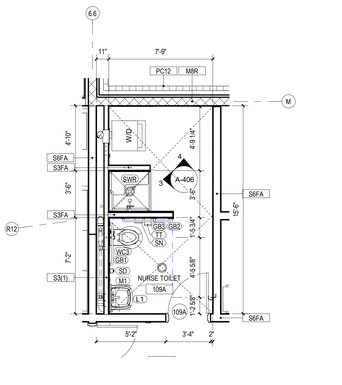
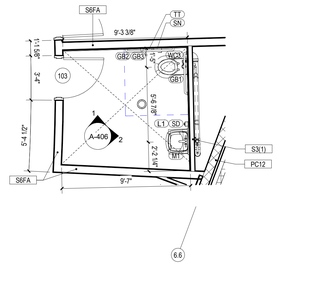


5 ENLARGED PLAN - NURSE TOILET
1/4" = 1'-0" A-101A



1 ENLARGED PLAN - ADMIN STAFF TOILET
1/4" = 1'-0" A-101A

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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SIGNATURE

DATE

REVISIONS

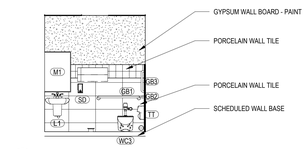
NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	BE
REVIEWED BY	ZC

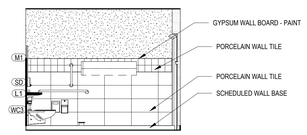
ENLARGED TOILET ROOM PLANS & DETAILS

A-405

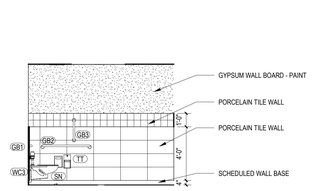
BIDDING



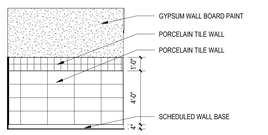
28 INTERIOR ELEVATION - FRONT ENTRANCE TOILET
1/4" = 1'-0" A-401



27 INTERIOR ELEVATION - FRONT ENTRANCE TOILET
1/4" = 1'-0" A-401



12 INTERIOR ELEVATION - SPECIAL ED TOILET
1/4" = 1'-0" A-405



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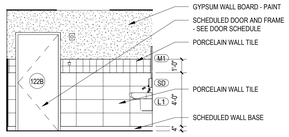

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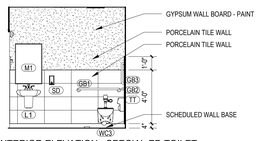
1/4" = 1'-0" A-405



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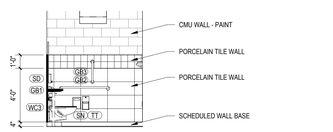
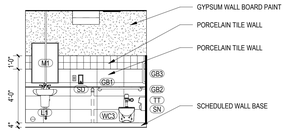
1/4" = 1'-0" A-405



22 INTERIOR ELEVATION - KINDERGARTEN 138 TOILET
1/4" = 1'-0" A-405



21 INTERIOR ELEVATION - KINDERGARTEN 138 TOILET
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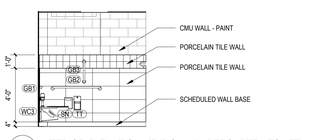
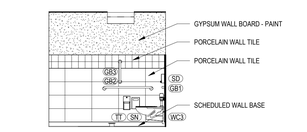


7 INTERIOR ELEVATION - TYPICAL KINDERGARTEN TOILET
1/4" = 1'-0" A-405



26 ENLARGED PLAN - TYPICAL MOD C CLASS TOILET ROOM
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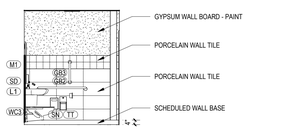

25 INTERIOR ELEVATION - MOD C CLASSROOM TOILET
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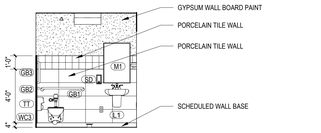
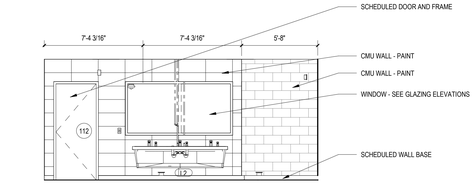


20 INTERIOR ELEVATION - STAFF WORKROOM TOILET
1/4" = 1'-0" A-405

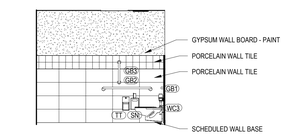


19 INTERIOR ELEVATION - STAFF WORKROOM TOILET
1/4" = 1'-0" A-405



6 INTERIOR ELEVATION - GYM TOILET ROOM
1/4" = 1'-0" A-405

5 INTERIOR ELEVATION - GYM TOILET ROOM
1/4" = 1'-0" A-405



24 INTERIOR ELEVATION - SECOND FLOOR TOILET
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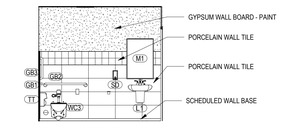
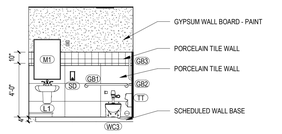


23 INTERIOR ELEVATION - SECOND FLOOR TOILET
1/4" = 1'-0" A-405



18 INTERIOR ELEVATION - 2ND FLOOR STAFF TOILETS
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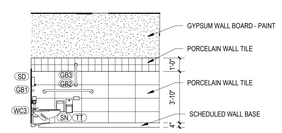
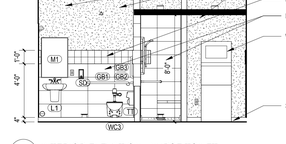
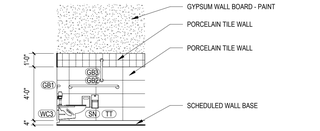


17 INTERIOR ELEVATION - 2ND FLOOR STAFF TOILETS
1/4" = 1'-0" A-405



3 INTERIOR ELEVATION - NURSE TOILET
1/4" = 1'-0" A-405



16 INTERIOR ELEVATION - MOD B CLASSROOM TOILET
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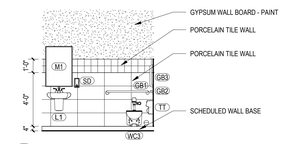
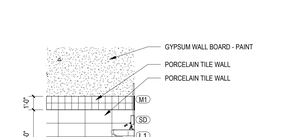


15 INTERIOR ELEVATION - MOD B CLASSROOM TOILET
1/4" = 1'-0" A-405



14 INTERIOR ELEVATION - MOD B CLASSROOM TOILET
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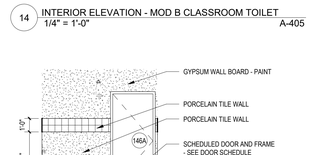
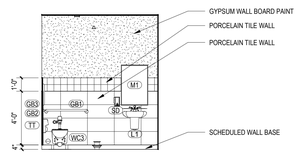
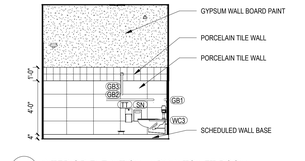


13 INTERIOR ELEVATION - MOD B CLASSROOM TOILET
1/4" = 1'-0" A-405



2 INTERIOR ELEVATION - ADMIN TOILET ROOM
1/4" = 1'-0" A-405



1 INTERIOR ELEVATION - ADMIN TOILET ROOM
1/4" = 1'-0" A-405

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INTERIOR ELEVATIONS - TOILET ROOMS

A-406

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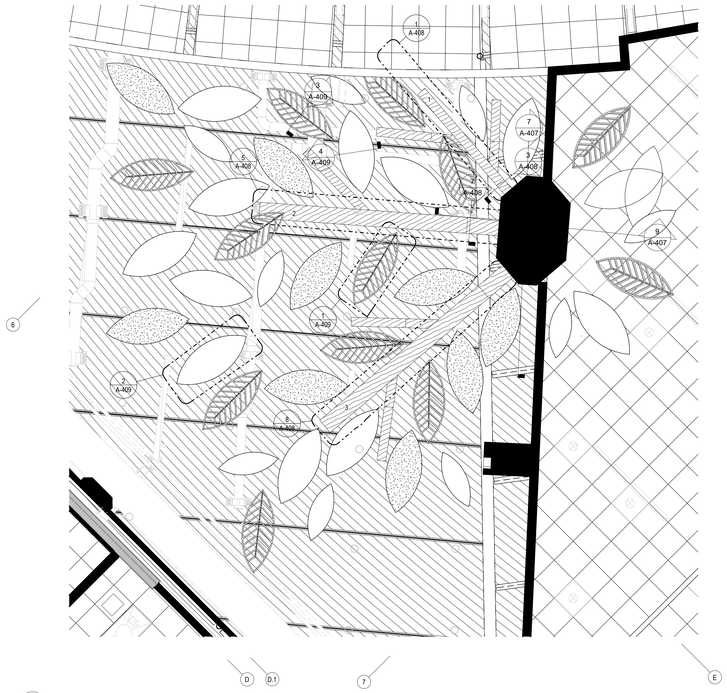
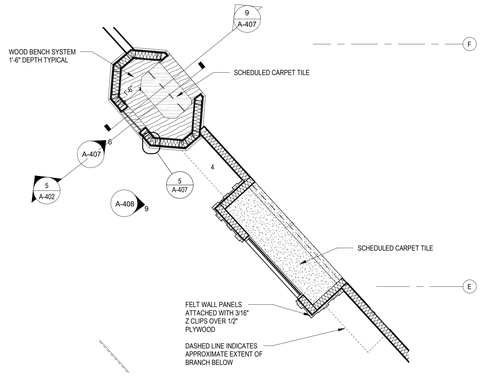
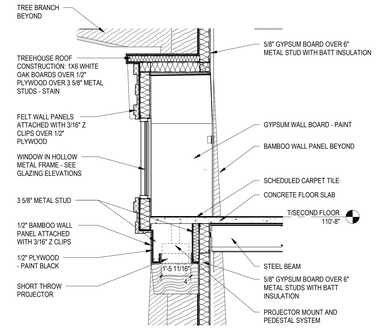


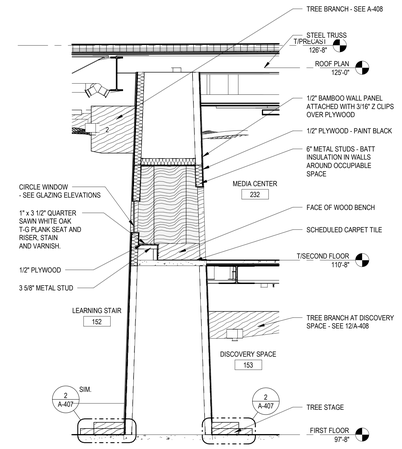
12 CANOPY PLAN
1/4" = 1'-0"
AC102B



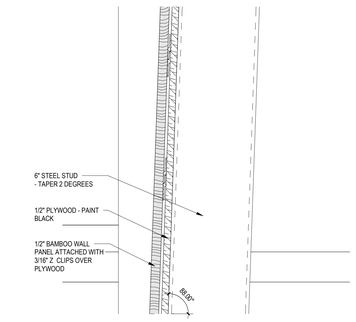
11 OWL'S NEST PLAN
1/4" = 1'-0"
A-102B



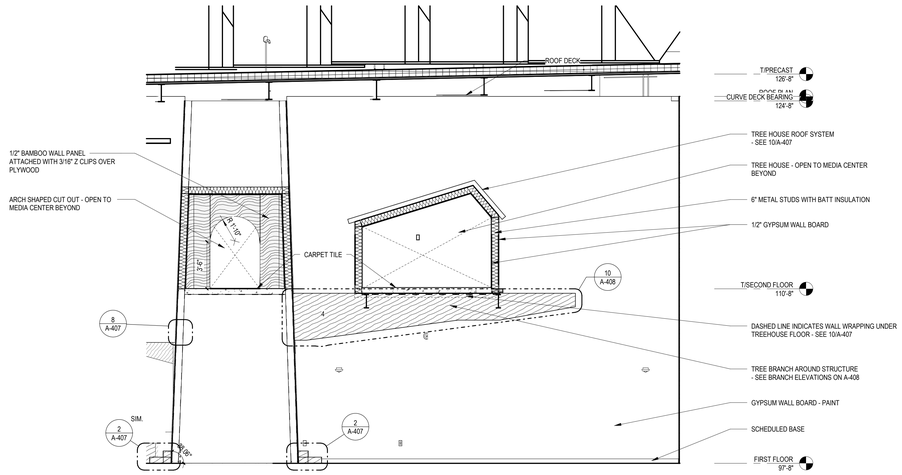
10 SECTION - TREE HOUSE AND BRANCH
3/8" = 1'-0"
A-102B



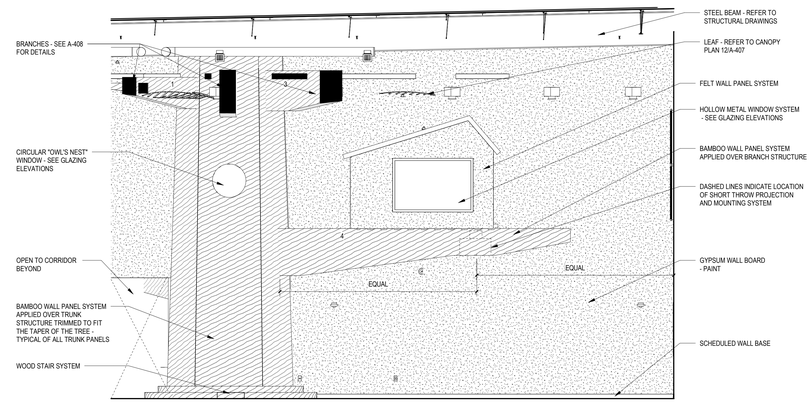
9 SECTION - OWL'S NEST AND MEDIA CENTER
1/4" = 1'-0"
A-402



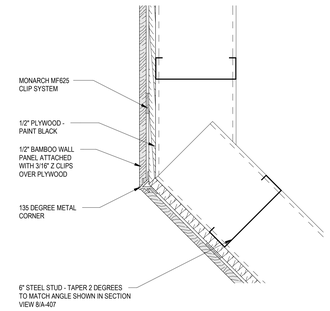
8 SECTION DETAIL - TREE PANEL JOINT
3" = 1'-0"
A-407



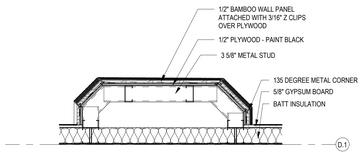
7 SECTION - OWL'S NEST AND TREE HOUSE
1/4" = 1'-0"
A-407



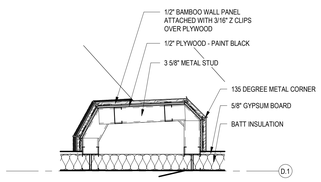
6 OVERALL TREE AND TREEHOUSE ELEVATION
1/4" = 1'-0"
A-101C



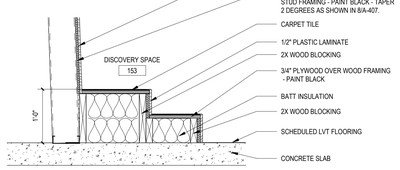
5 PLAN DETAIL - TREE CORNER JOINT
3" = 1'-0"
A-407



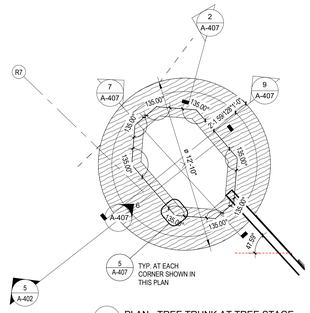
4 TREE PLAN - LEARNING STAIR TREE
1" = 1'-0"
A-102B



3 TREE PLAN - LEARNING STAIR TREE
1" = 1'-0"
A-102B



2 TREE STAGE SECTION
1" = 1'-0"
A-407



1 PLAN - TREE TRUNK AT TREE STAGE
1/4" = 1'-0"
A-101B

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ENLARGED TREE PLAN AND DETAILS

A-407

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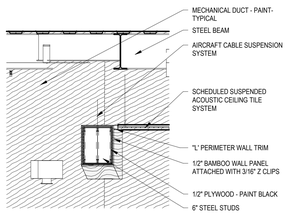
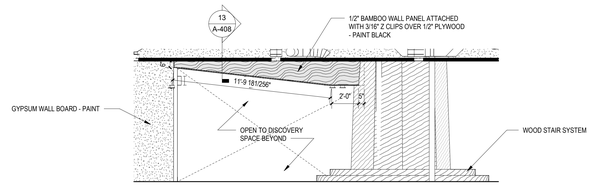
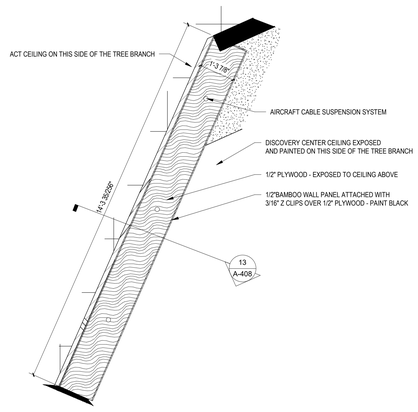


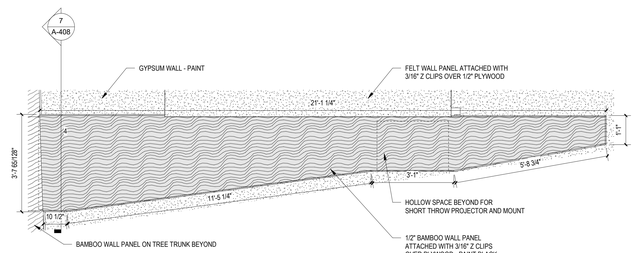
13 DISCOVERY LAB - BRANCH AND CEILING CONNECTION SECTION
1/2" = 1'-0" A-101B



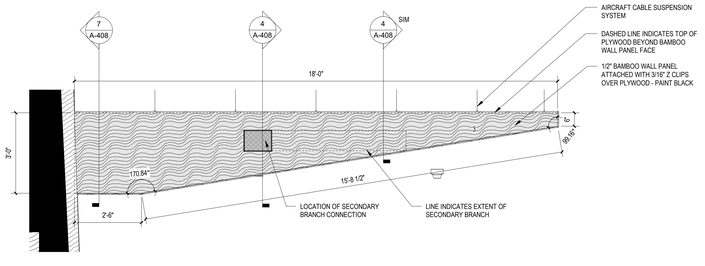
12 TREE BRANCH ELEVATION - DISCOVERY CENTER
1/4" = 1'-0" A-101B



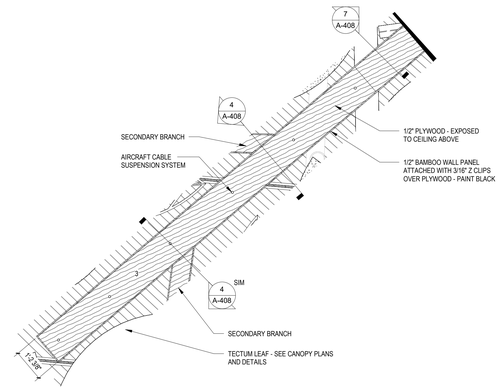
11 BRANCH PLAN - DISCOVERY CENTER
1/2" = 1'-0" AC101B



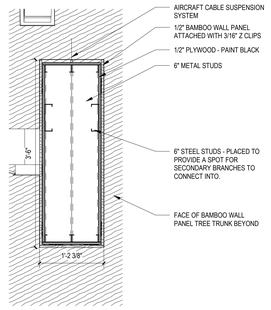
10 TREEHOUSE BRANCH ELEVATION
1/2" = 1'-0" A-407



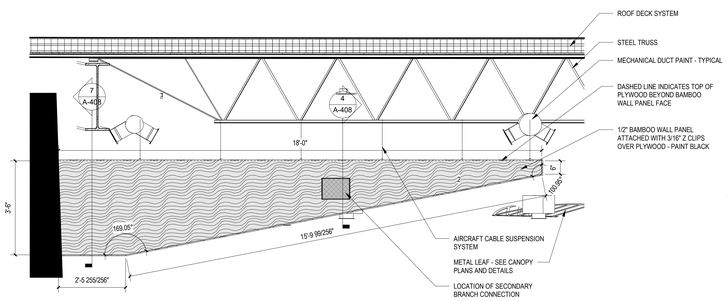
9 BRANCH ELEVATION
1/2" = 1'-0" A-102B



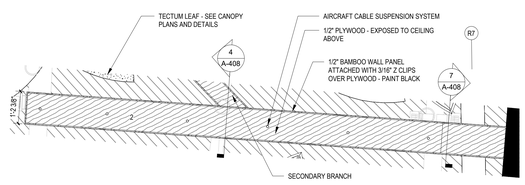
8 BRANCH PLAN
1/2" = 1'-0" A-407



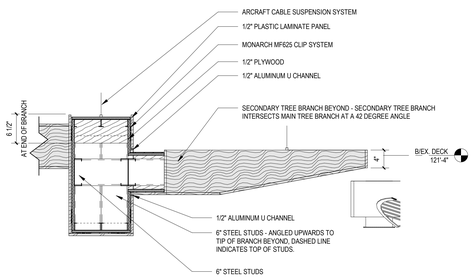
7 BRANCH BASE SECTION
1" = 1'-0" A-407



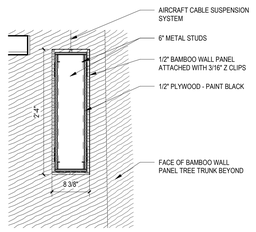
6 BRANCH ELEVATION
1/2" = 1'-0" A-102B



5 BRANCH PLAN
1/2" = 1'-0" A-407



4 SECONDARY BRANCH SECTION
1" = 1'-0" A-408



3 BRANCH BASE SECTION
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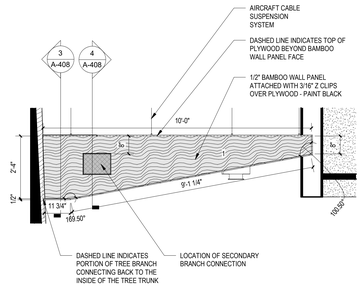
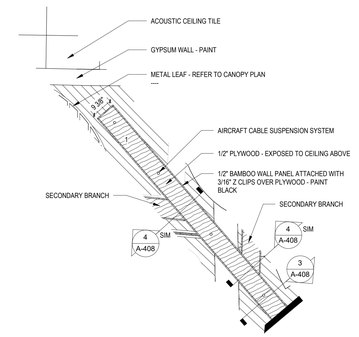


2 BRANCH ELEVATION
1/2" = 1'-0"



1 BRANCH PLAN
1/2" = 1'-0" A-407

LEGAT ARCHITECTS
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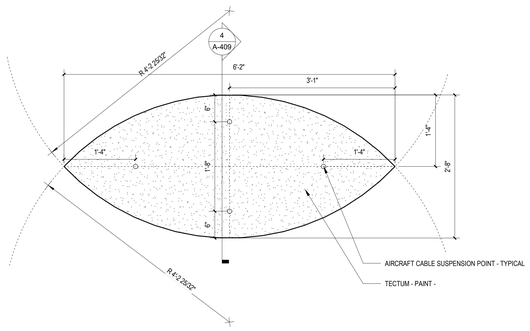
REVIEWED BY	ZC

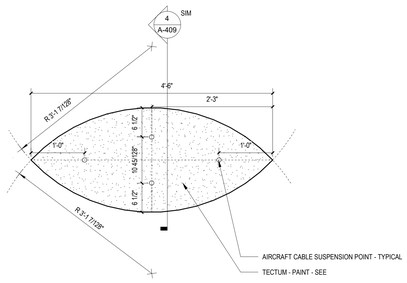
ENLARGED TREE BRANCH PLANS, ELEVATIONS, SECTIONS, AND DETAILS

A-408

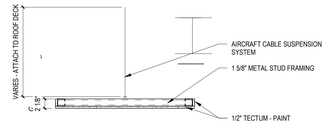
BIDDING



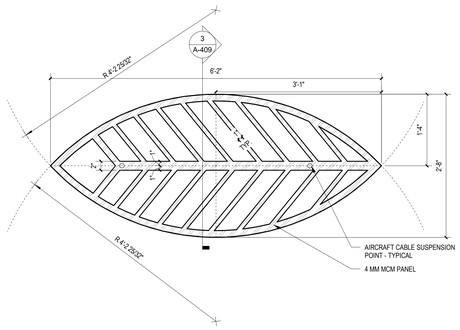
2 PLAN - LARGE TECTUM LEAF
1" = 1'-0" A-407



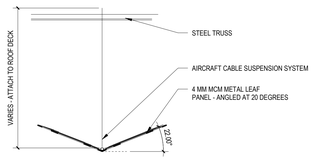
5 SMALL TECTUM LEAF
1" = 1'-0"



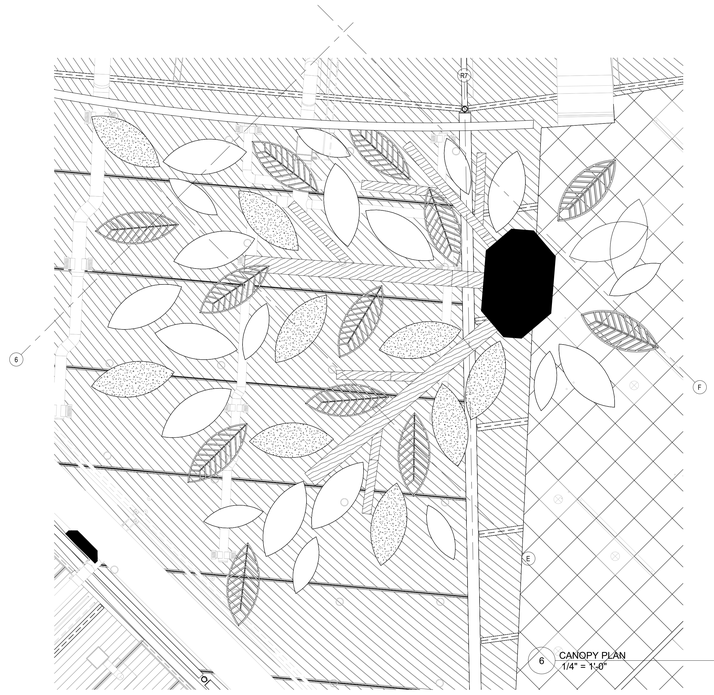
4 SECTION DETAIL -TECTUM LEAF
1" = 1'-0" A-407



1 METAL LEAF PLAN
1" = 1'-0" A-407



3 SECTION DETAIL - METAL LEAF
1" = 1'-0" A-407



6 CANOPY PLAN
1/4" = 1'-0" AC102B

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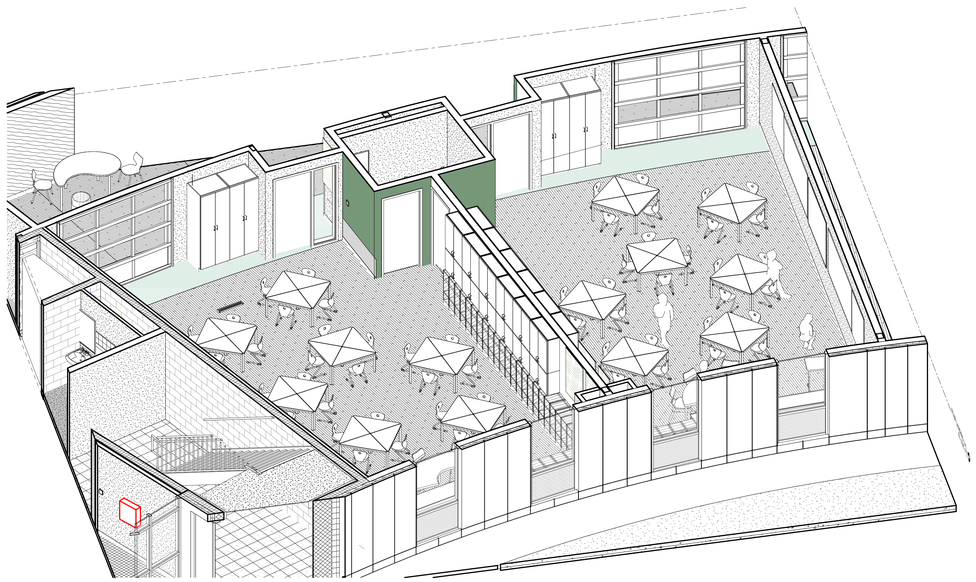
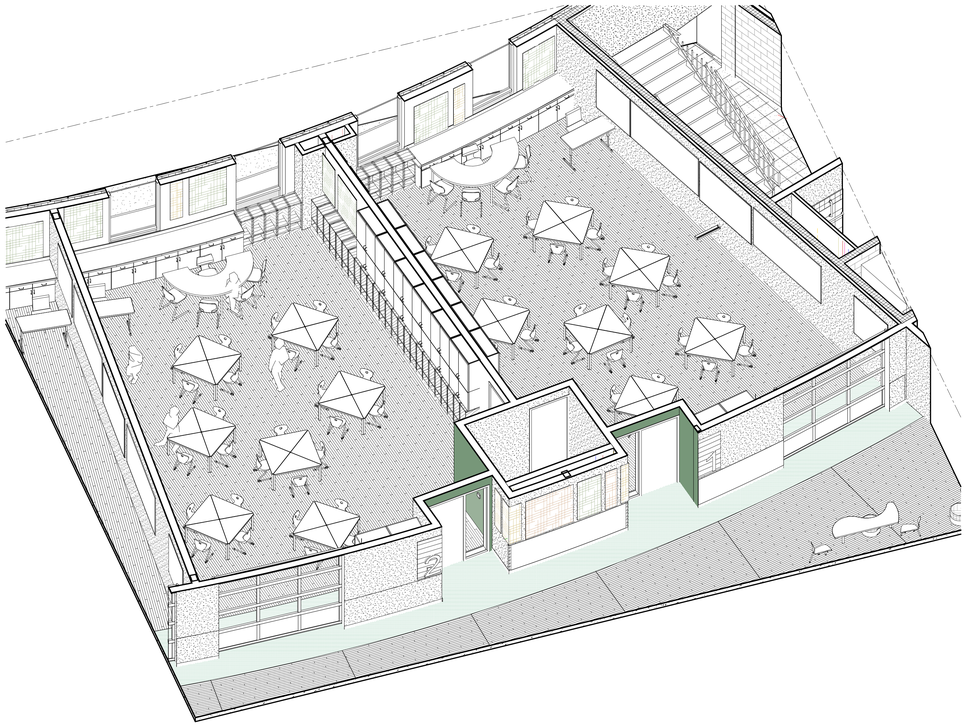
ENLARGED LEAF PLANS AND DETAILS

A-409

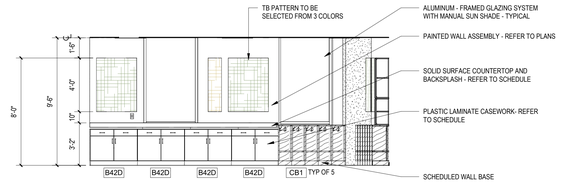
BIDDING



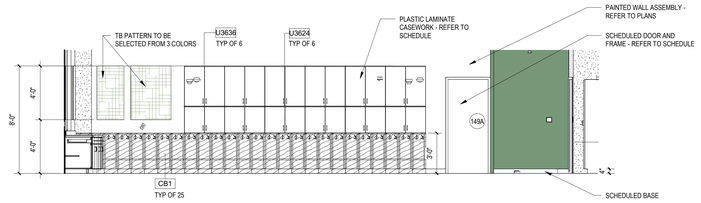
7 CLASSROOM ADDITION AXONOMETRIC



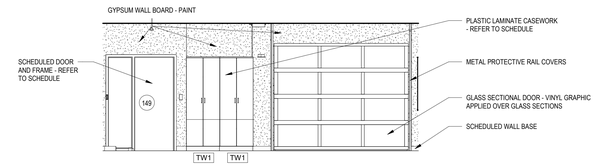
6 CLASSROOM ADDITION AXONOMETRIC



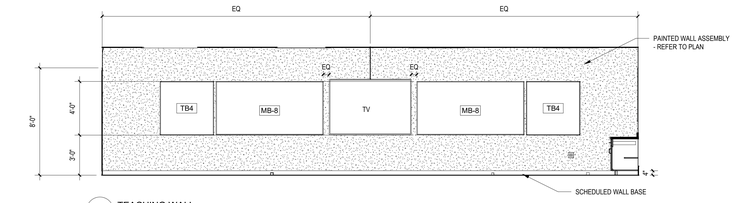
5 1ST GRADE EXTERIOR WALL WITH CASEWORK
1/4" = 1'-0" A-102B



4 1ST-4TH GRADE CUBBY WALL
1/4" = 1'-0" A-101B



3 CLASSROOM GARAGE DOOR OPENING
1/4" = 1'-0" A-101B



2 TEACHING WALL
1/4" = 1'-0" A-101B

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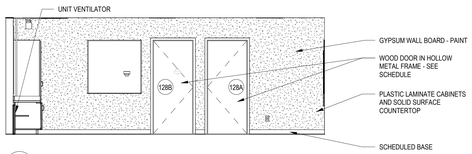
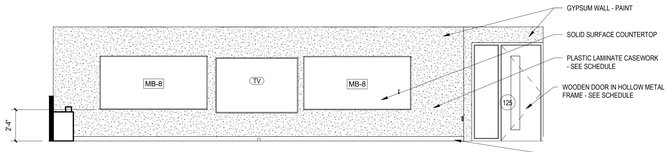
ENLARGED TYPICAL ADDITION CLASSROOM PLANS, ELEVATIONS AND AXONOMETRICS

A-410

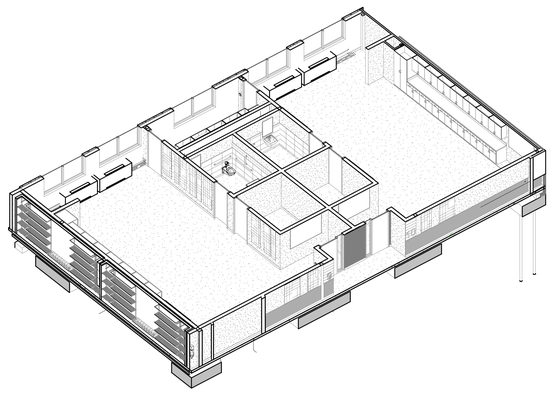
BIDDING



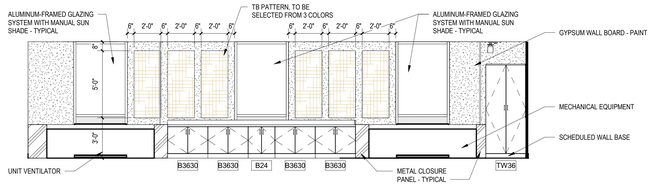
14 INTERIOR ELEVATION - SPECIAL ED 128
1/4" = 1'-0" A-101C



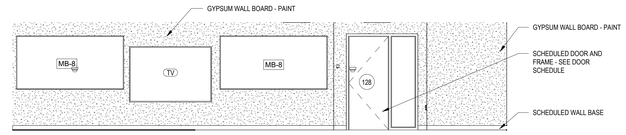
15 INTERIOR ELEVATION - OT/PT
1/4" = 1'-0" A-101C



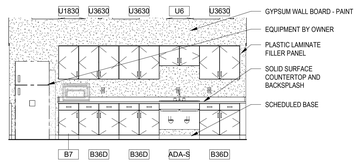
2 AXON - SPECIAL EDUCATION



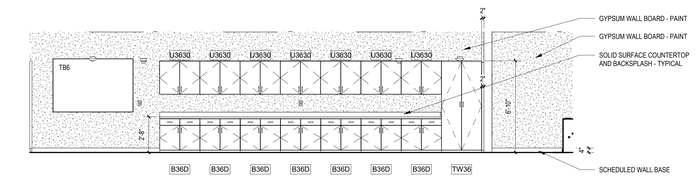
13 INTERIOR ELEVATION - SPECIAL ED 128
1/4" = 1'-0" A-101C



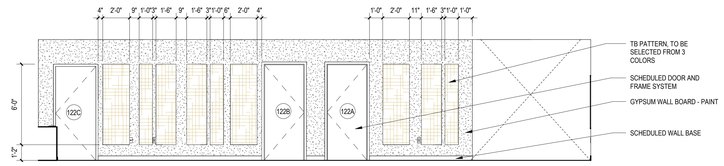
11 INTERIOR ELEVATION - SPECIAL ED 128
1/4" = 1'-0" A-101C



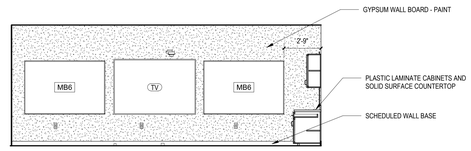
9 INTERIOR ELEVATION - KITCHENETTE - WEST
1/4" = 1'-0" A-101B



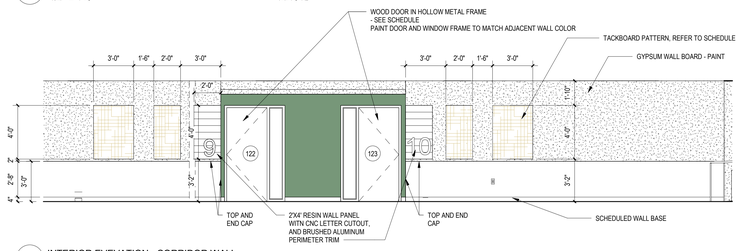
8 INTERIOR ELEVATION - SPECIAL EDUCATION
1/4" = 1'-0" A-101B



7 INTERIOR ELEVATION - SPECIAL EDUCATION
1/4" = 1'-0" A-101B



6 INTERIOR ELEVATION - SPECIAL EDUCATION
1/4" = 1'-0" A-101B



5 INTERIOR EVEVATION - CORRIDOR WALL
1/4" = 1'-0" A-101B

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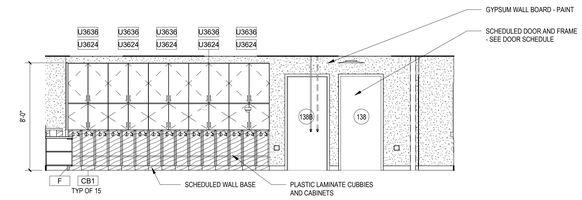
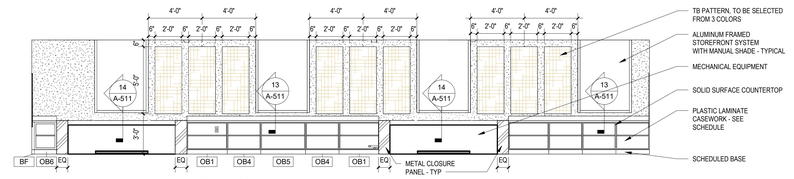
ENLARGED SPECIAL EDUCATION CLASSROOM PLANS, ELEVATIONS, AND AXONOMETRICS

A-411

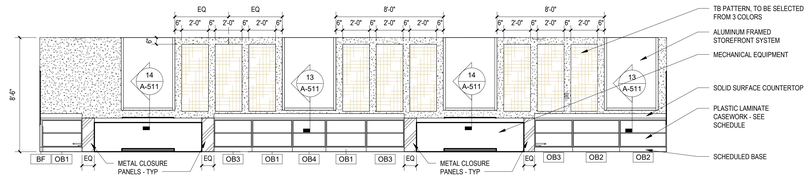
BIDDING



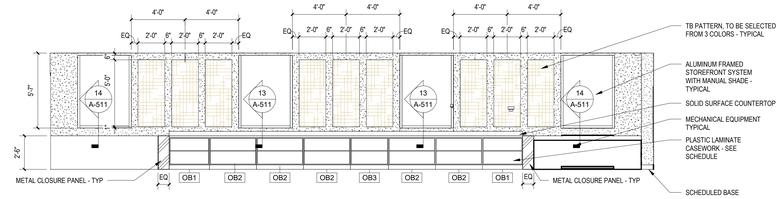
11 KINDERGARTEN NORTH WALL 138
1/4" = 1'-0" A-101C



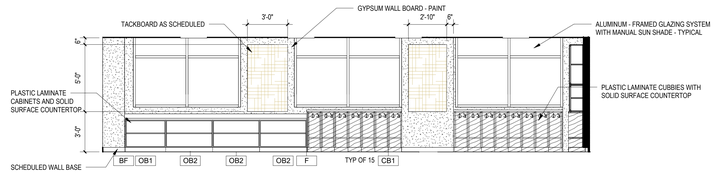
7 INTERIOR ELEVATION - KINDERGARTEN 130 SOUTH WALL
1/4" = 1'-0" A-101C



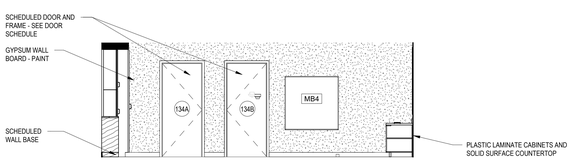
6 INTERIOR ELEVATION - KINDERGARTEN 132 SOUTH WALL
1/4" = 1'-0" A-101C



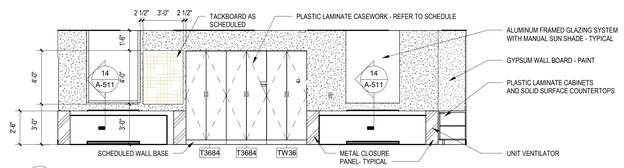
5 KINDERGARTEN EXTERIOR WALL
1/4" = 1'-0" A-101C



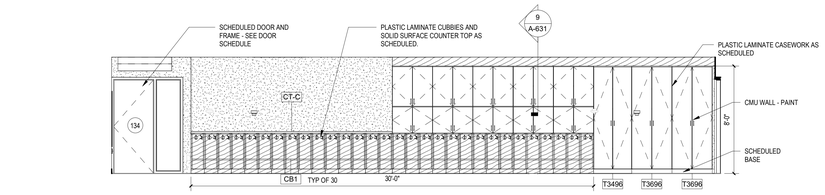
14 KINDERGARTEN WEST WALL 138
1/4" = 1'-0" A-101C



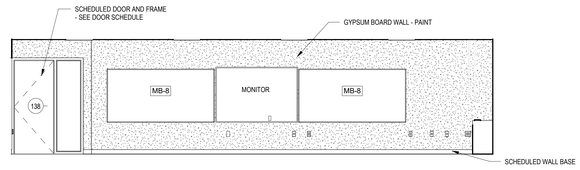
4 KINDERGARTEN - STORAGE RM WALL
1/4" = 1'-0" A-101C



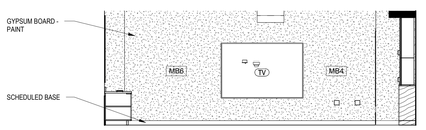
13 KINDERGARTEN SOUTH WALL 138
1/4" = 1'-0" A-101C



3 KINDERGARTEN - CUBBY WALL
1/4" = 1'-0" A-101C



12 KINDERGARTEN EAST WALL 138
1/4" = 1'-0" A-101C



2 KINDERGARTEN - TEACHING WALL
1/4" = 1'-0" A-101C

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SIGNATURE

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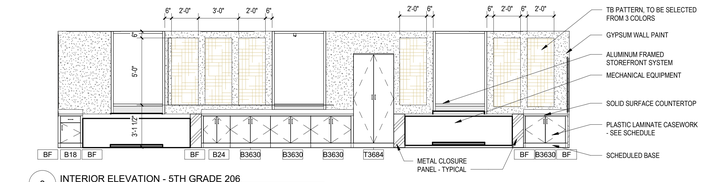
DATE OF ISSUE	10.23.2025
DRAWN BY	MT
REVIEWED BY	ZC

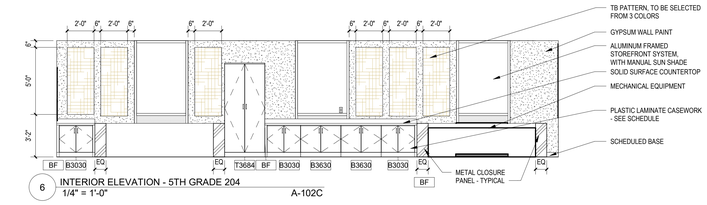
ENLARGED KINDERGARTEN CLASSROOM PLANS, AND ELEVATIONS

A-412

BIDDING



8 INTERIOR ELEVATION - 5TH GRADE 206
1/4" = 1'-0" A-102C



6 INTERIOR ELEVATION - 5TH GRADE 204
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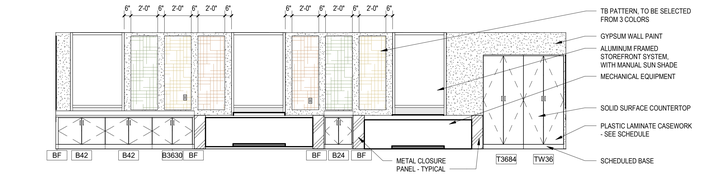

7 INTERIOR ELEVATION - 5TH GRADE 216
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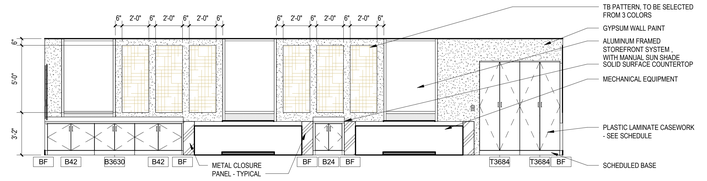

5 INTERIOR ELEVATION - 5TH GRADE SOUTH WALL
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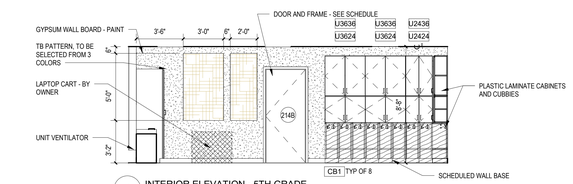

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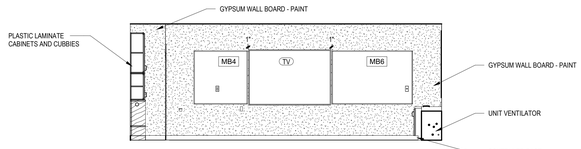

3 INTERIOR ELEVATION - 5TH GRADE EAST WALL
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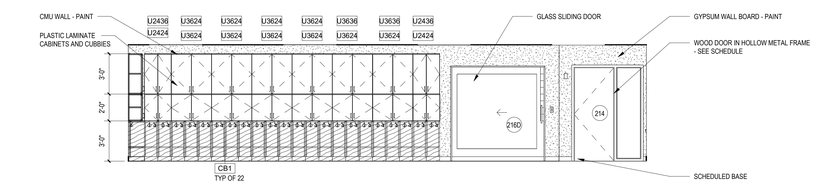

2 INTERIOR ELEVATION - 5TH GRADE
1/4" = 1'-0" A-102C

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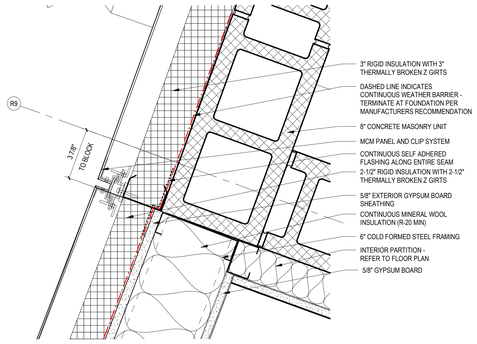
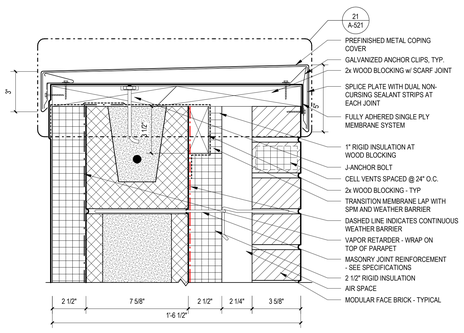
ENLARGED FIFTH GRADE CLASSROOM PLANS, ELEVATIONS, AND AXONOMETRICS

A-413

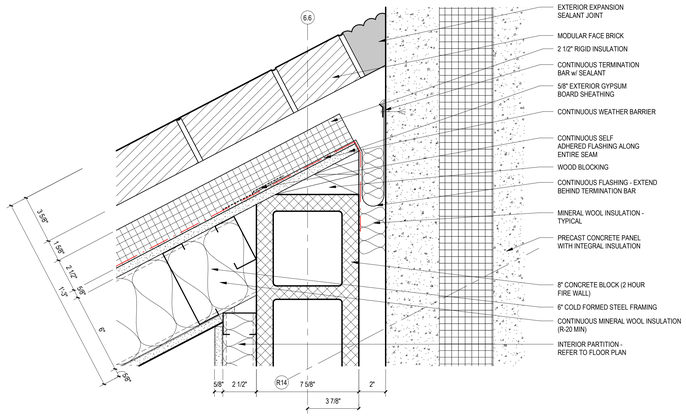
BIDDING



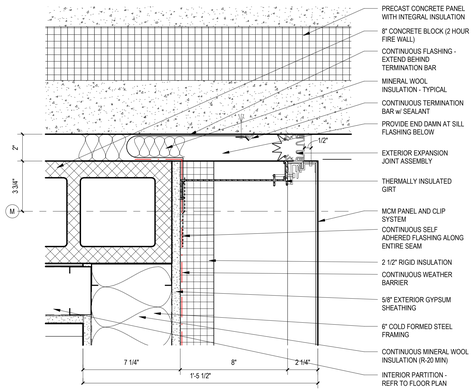
12 PLAN DETAIL
3" = 1'-0" A-101B



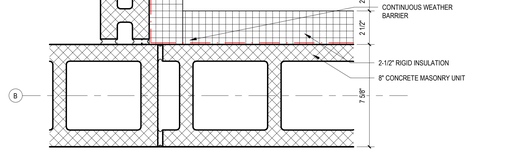
9 SECTION DETAIL
3" = 1'-0" A-315



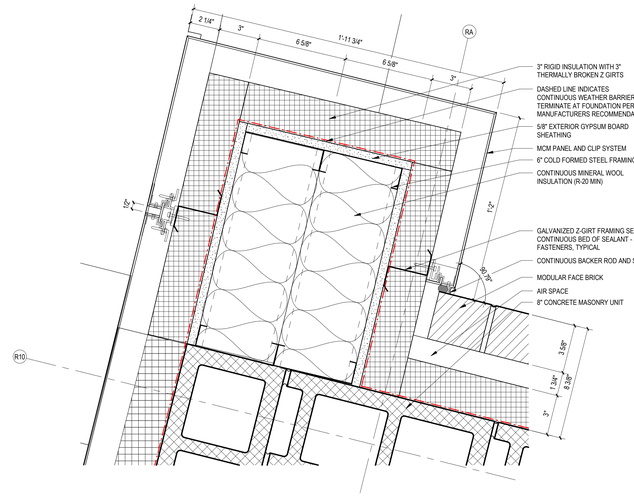
6 PLAN DETAIL - FIRE WALL
3" = 1'-0" A-101A



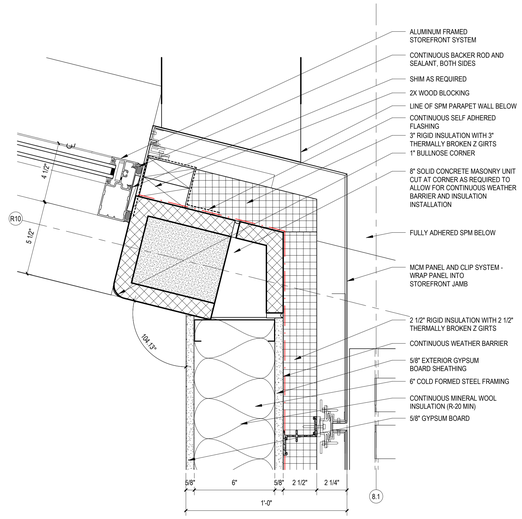
3 PLAN DETAIL - FIRE WALL
3" = 1'-0" A-101A



11 PLAN DETAIL
3" = 1'-0" A-101C



8 PLAN DETAIL
3" = 1'-0" A-102B



5 PLAN DETAIL
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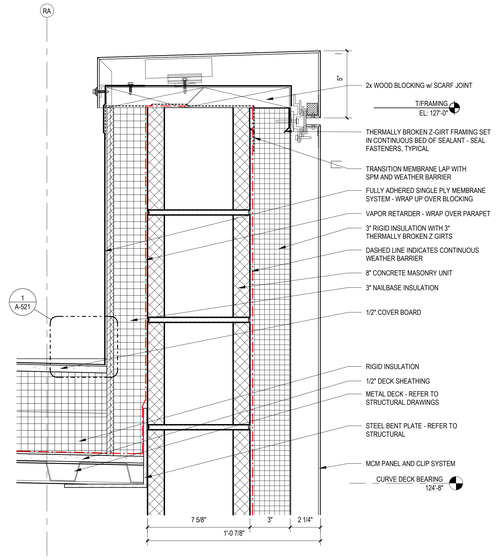

2 SECTION DETAIL
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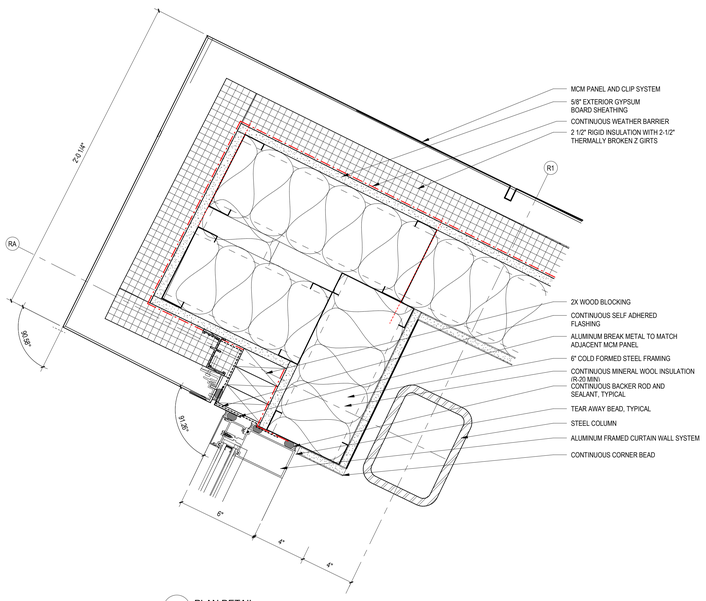
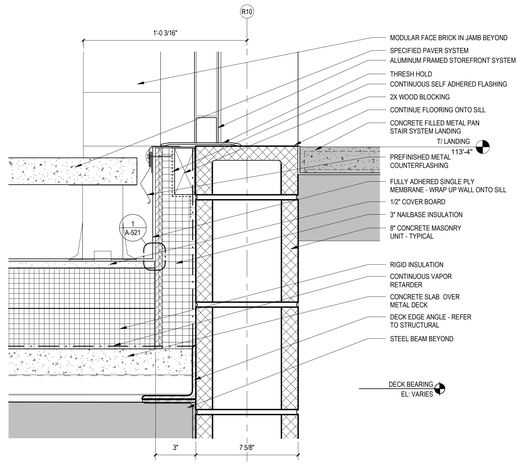
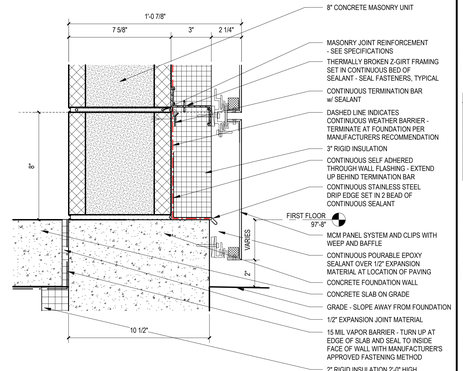


10 PLAN DETAIL
3" = 1'-0" A-101B



4 SECTION DETAIL
3" = 1'-0" A-315



1 SECTION DETAIL
3" = 1'-0" A-312

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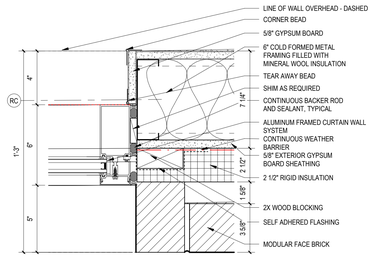
REVIEWED BY	ZC

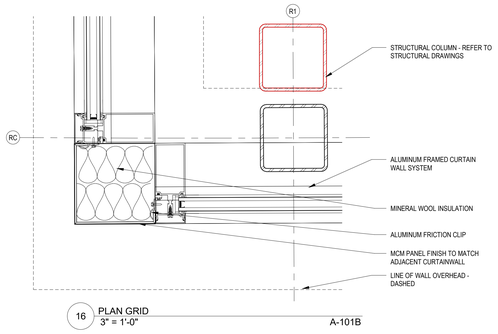
EXTERIOR DETAILS

A-501

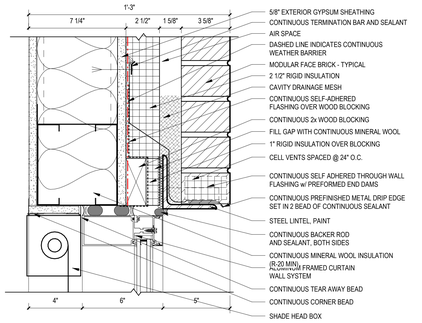
BIDDING



17 JAMB DETAIL
3" = 1'-0"
A-101A



16 PLAN GRID
3" = 1'-0"
A-101B



12 SECTION DETAIL
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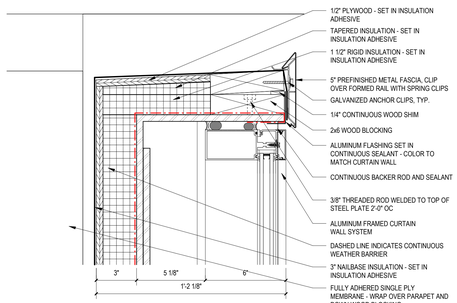
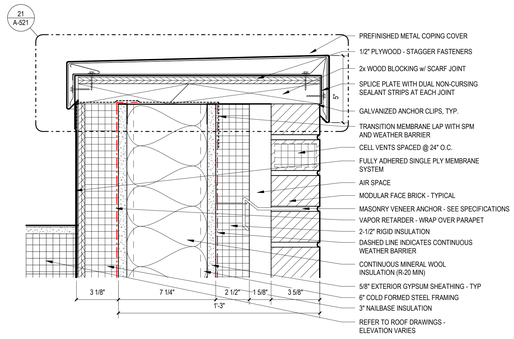
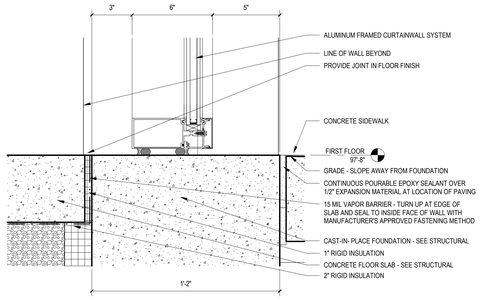
A-621



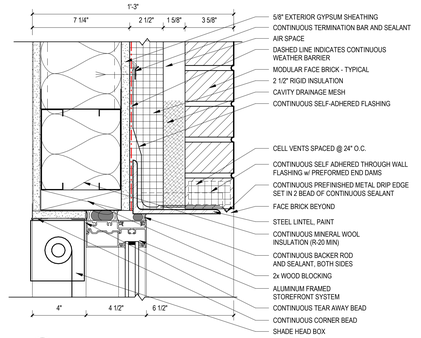
8 SECTION DETAIL
3" = 1'-0"
A-311



4 SECTION DETAIL
3" = 1'-0"
A-311



7 SECTION DETAIL
3" = 1'-0"
A-311



3 SECTION DETAIL
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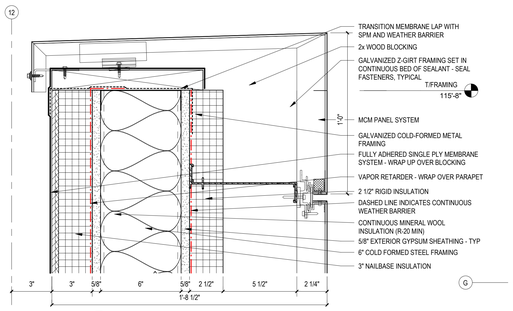
A-315



15 SECTION DETAIL
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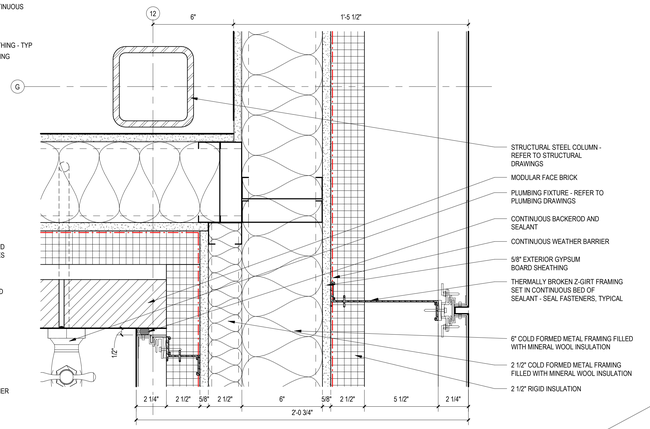
A-315



10 PLAN DETAIL
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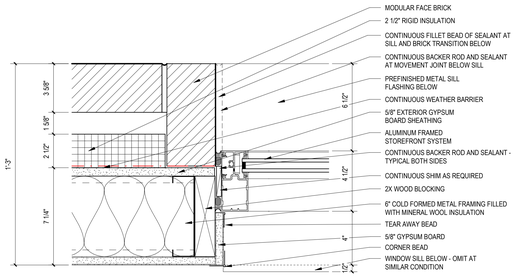
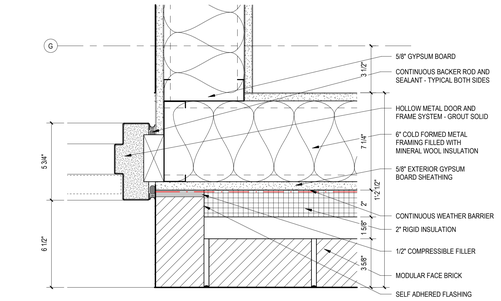
A-101B



6 PLAN DETAIL
3" = 1'-0"
A-621

2 SECTION DETAIL
3" = 1'-0"
A-313



14 PLAN DETAIL
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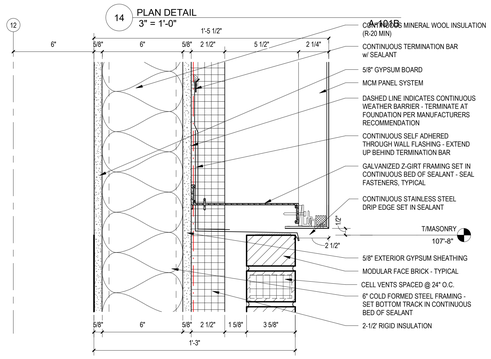
A-101B



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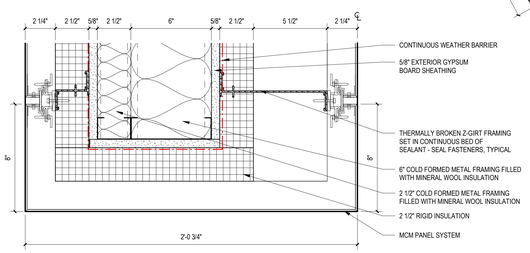
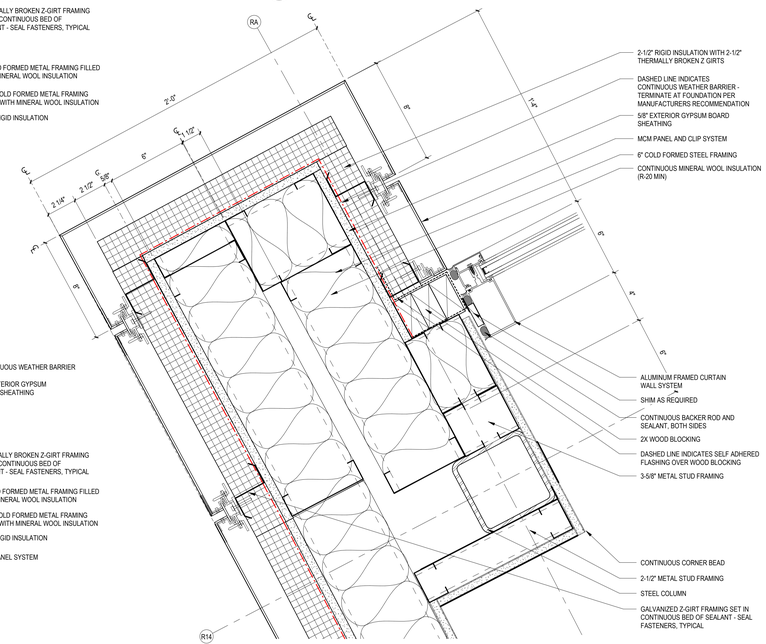
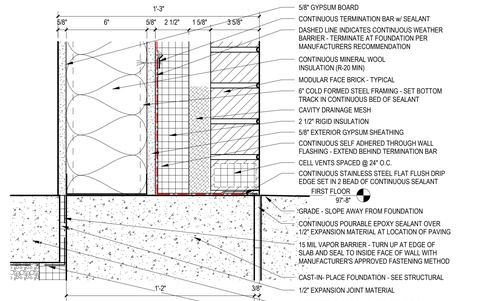
A-315



9 PLAN DETAIL
3" = 1'-0"
A-101B



5 PLAN DETAIL
3" = 1'-0"
A-101A



1 SECTION DETAIL
3" = 1'-0"
A-101B

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EXTERIOR DETAILS

A-502

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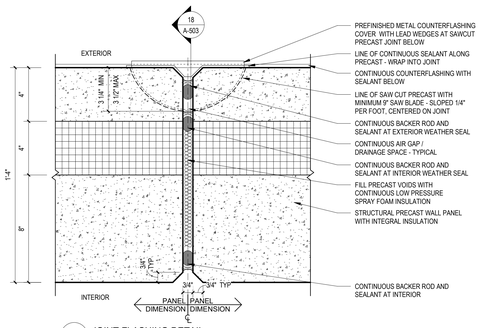
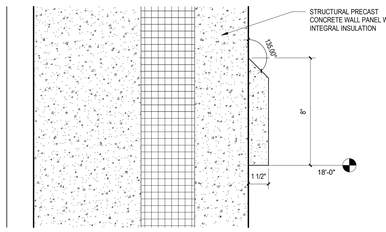
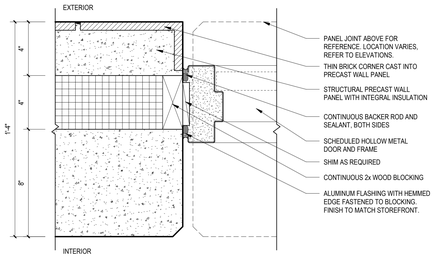


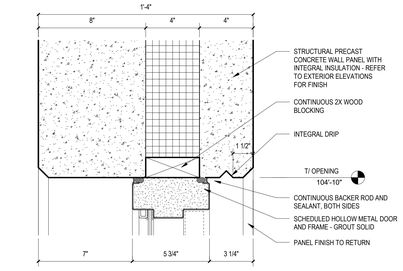
19 JOINT FLASHING DETAIL
3" = 1'-0"



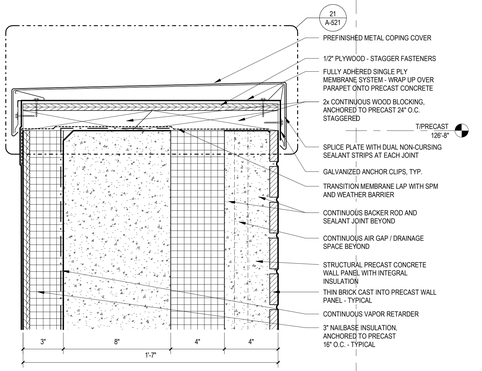
16 SECTION DETAIL
3" = 1'-0"
A-311



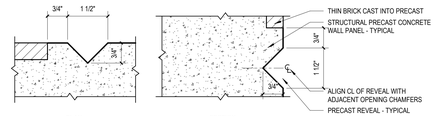
15 TYPICAL PRECAST JAMB DETAIL @ MID PANEL
3" = 1'-0"
A-101A



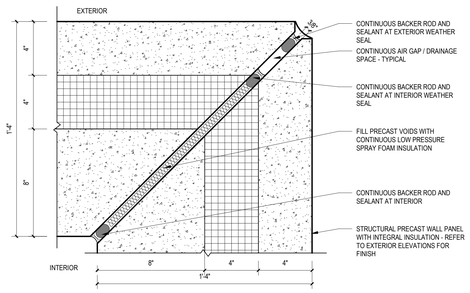
14 SECTION DETAIL
3" = 1'-0"
A-311



11 SECTION DETAIL
3" = 1'-0"
A-311



10 TYPICAL PRECAST REVEAL DETAIL
6" = 1'-0"
A-201



9 TYPICAL PRECAST OUTSIDE CORNER DETAIL
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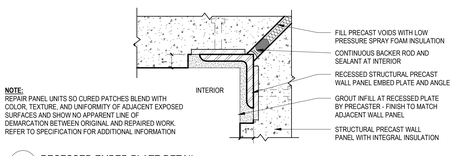
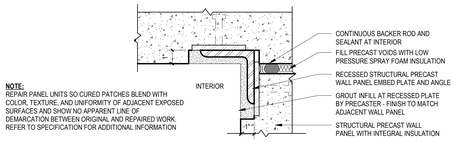
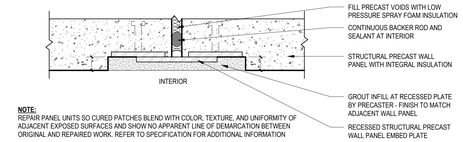


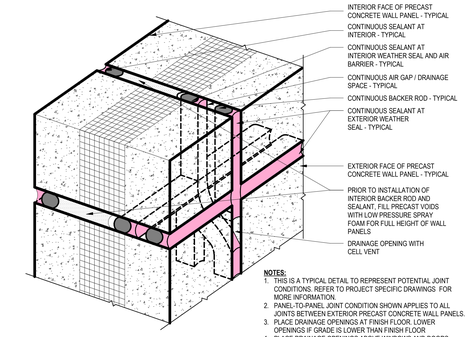
6 RECESSED EMBED PLATE DETAIL
3" = 1'-0"



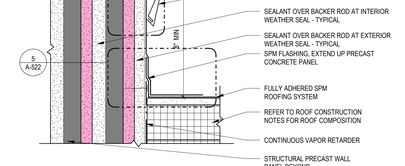
5 RECESSED EMBED PLATE DETAIL
3" = 1'-0"



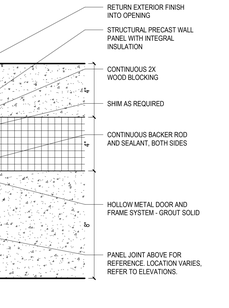
4 RECESSED EMBED PLATE DETAIL
3" = 1'-0"



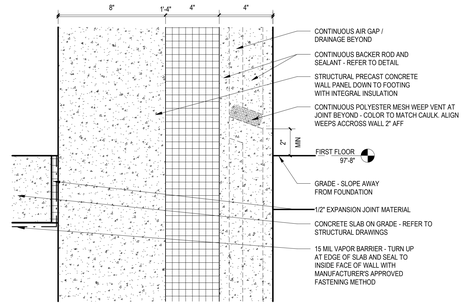
3 TWO-STAGE SEALANT JOINT AXON
NOT TO SCALE



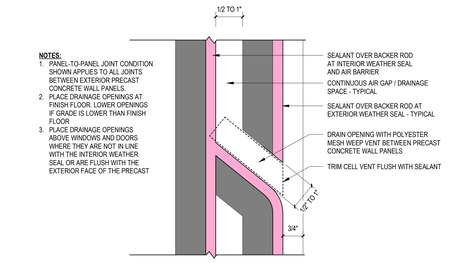
18 JOINT FLASHING DETAIL
3" = 1'-0"
A-503



13 PLAN DETAIL
3" = 1'-0"
A-101A



8 PRECAST FOUNDATION DETAIL
3" = 1'-0"
A-311



2 TWO-STAGE SEALANT JOINT DETAIL
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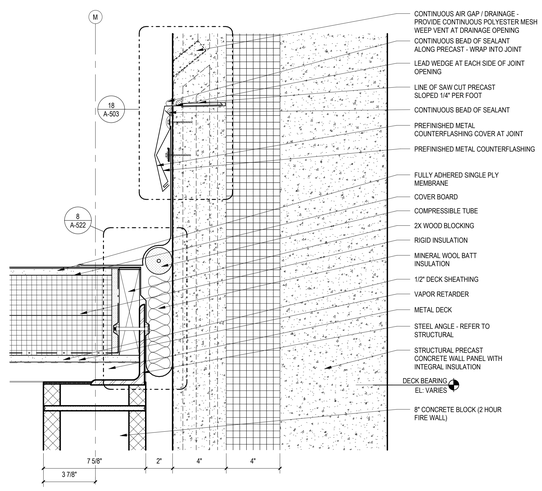
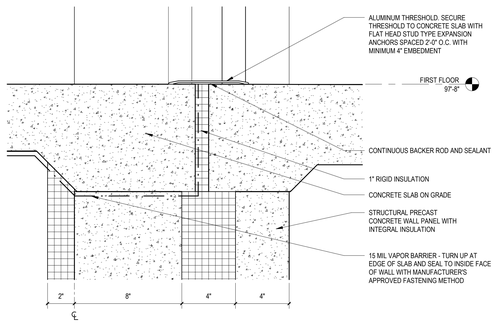
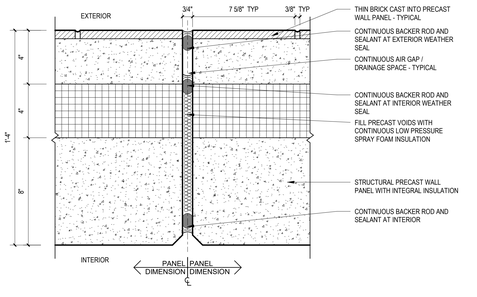


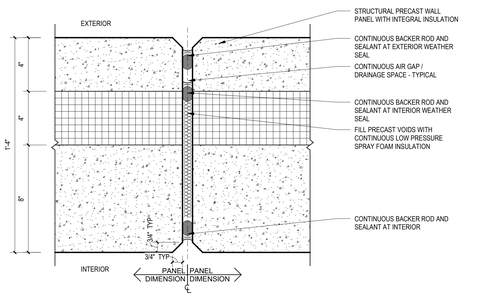
17 SECTION DETAIL
3" = 1'-0"
A-311



12 SECTION DETAIL
3" = 1'-0"
A-311



7 TYPICAL PRECAST JOINT DETAIL
3" = 1'-0"
A-101A



1 TYPICAL PRECAST JOINT DETAIL
3" = 1'-0"
A-101A

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SIGNATURE _____

DATE _____

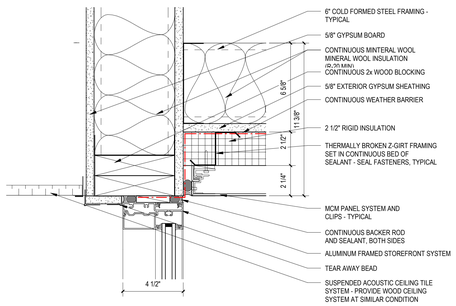
REVISIONS

NO	DESCRIPTION	DATE

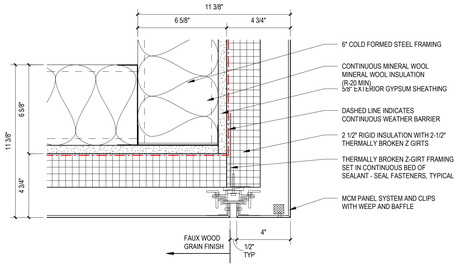
PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	VP / JC
REVIEWED BY	ZC

EXTERIOR DETAILS

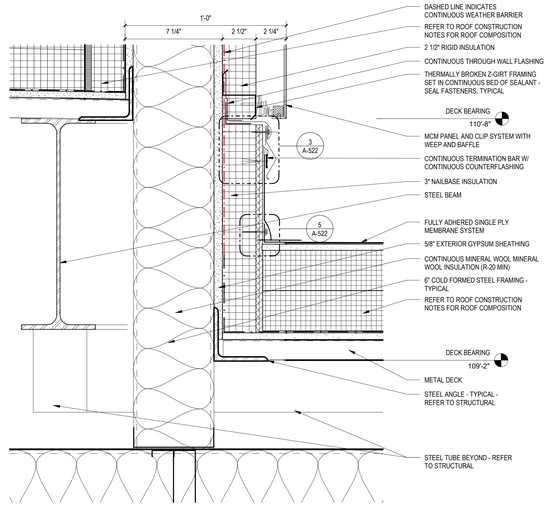
A-503
BIDDING



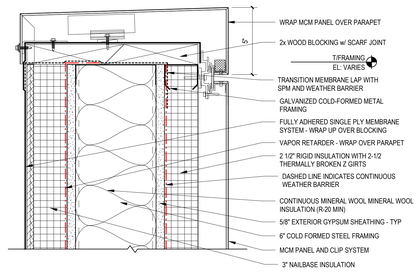
16 SECTION DETAIL
3" = 1'-0" A-312



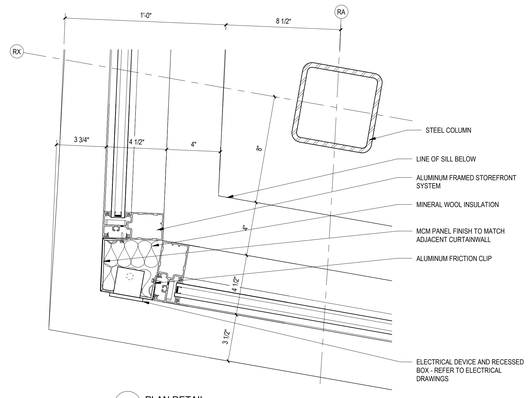
12 SECTION DETAIL
3" = 1'-0" A-312



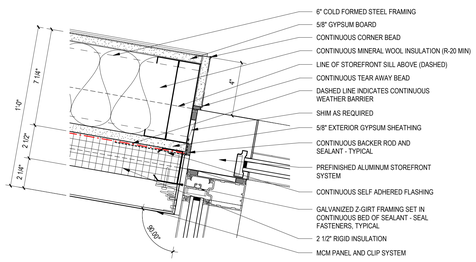
8 SECTION DETAIL
3" = 1'-0" A-312



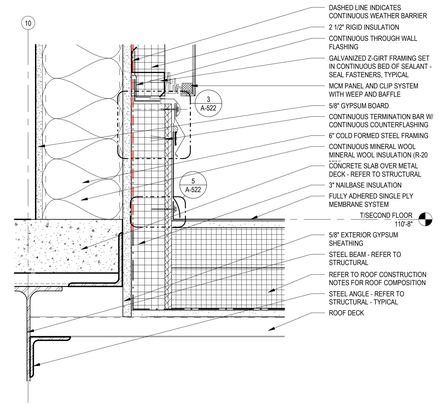
4 PARAPET DETAIL
3" = 1'-0" A-312



15 PLAN DETAIL
3" = 1'-0" A-101A



11 PLAN DETAIL
3" = 1'-0" A-101A



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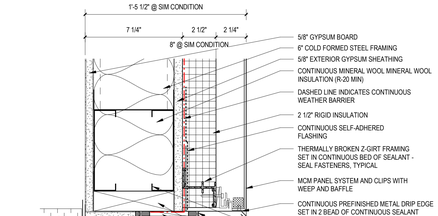
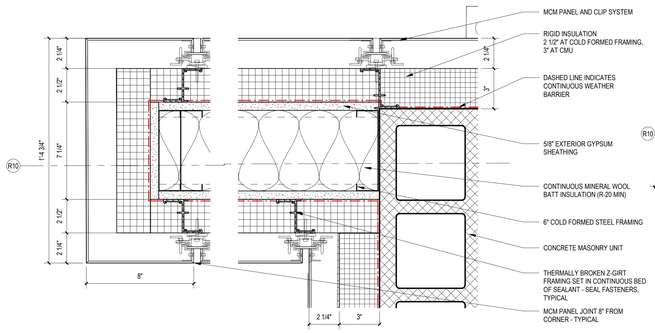
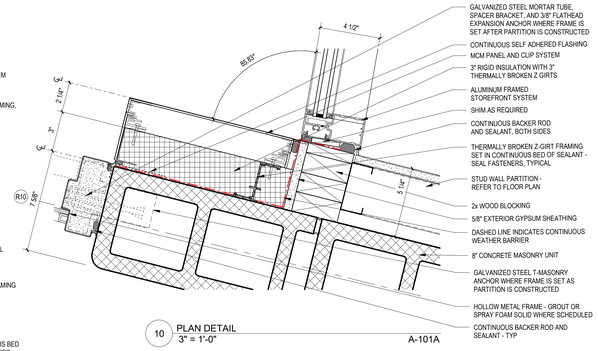


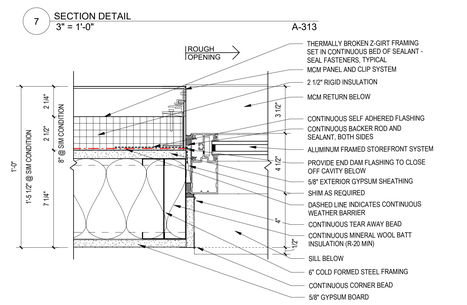
3 HEAD DETAIL
3" = 1'-0" A-312



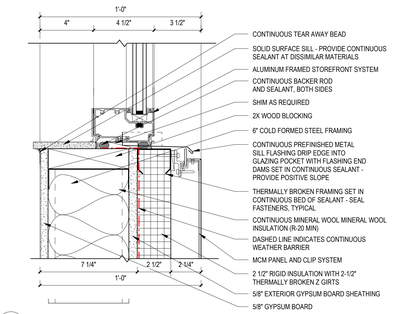
14 PLAN DETAIL
3" = 1'-0" A-101A



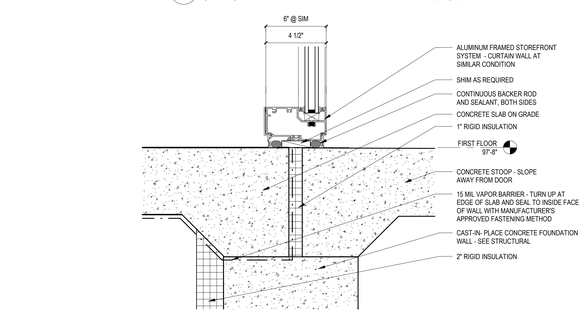
10 PLAN DETAIL
3" = 1'-0" A-101A



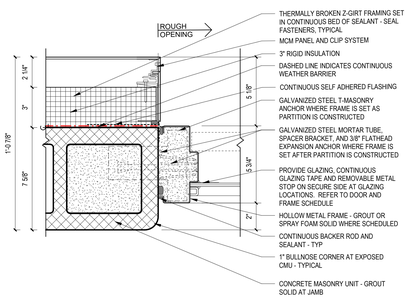
6 PLAN DETAIL
3" = 1'-0" A-101B



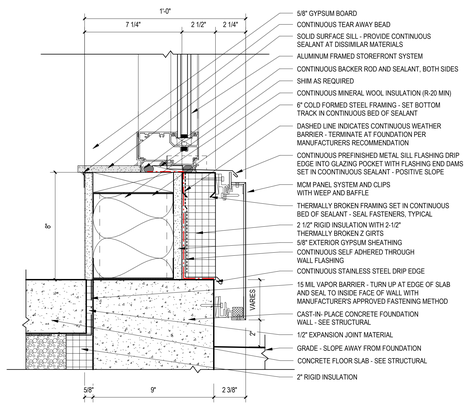
2 SILL DETAIL
3" = 1'-0" A-312



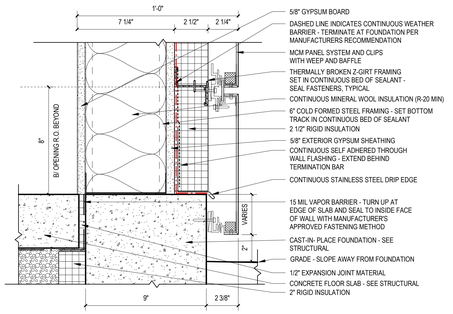
13 SECTION DETAIL
3" = 1'-0" A-312



9 PLAN DETAIL
3" = 1'-0" A-101B



5 SILL DETAIL
3" = 1'-0" A-312



1 SECTION DETAIL
3" = 1'-0" A-312

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PROJECT NUMBER	224150.00
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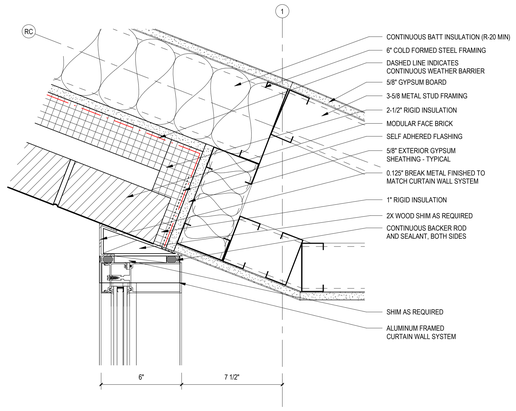
REVIEWED BY	ZC

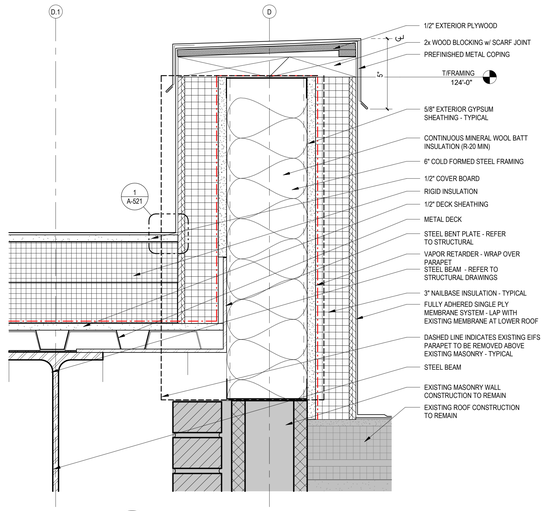
EXTERIOR DETAILS

A-504

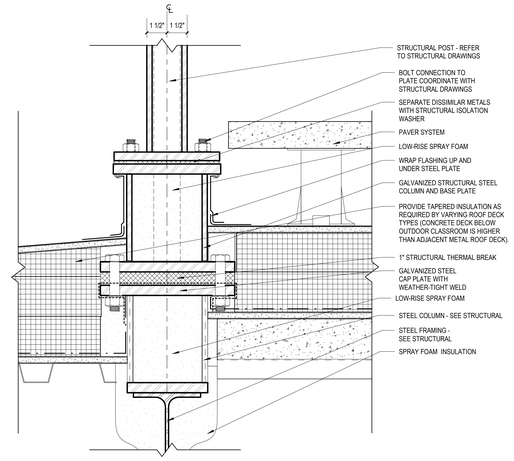
BIDDING



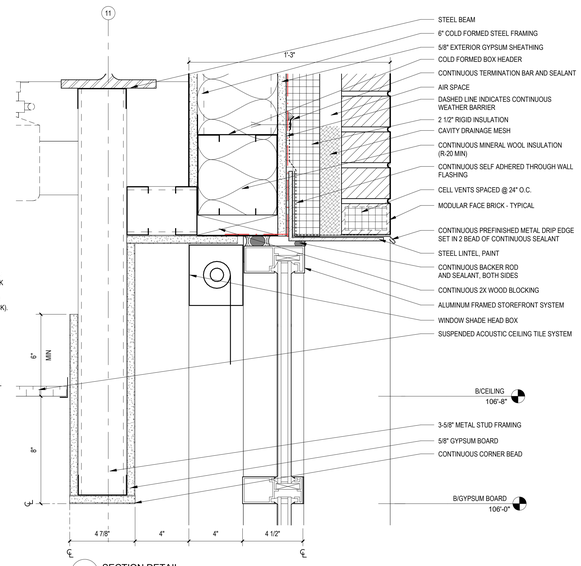
14 PLAN DETAIL
3" = 1'-0" A-101B



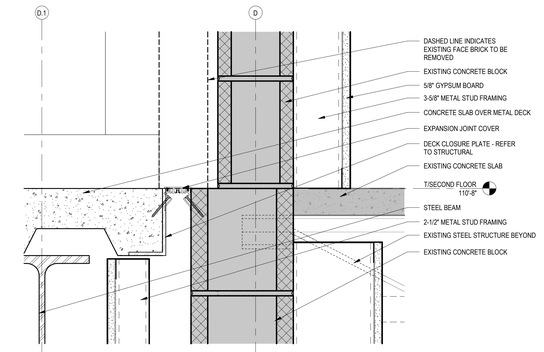
11 SECTION DETAIL
3" = 1'-0" A-313



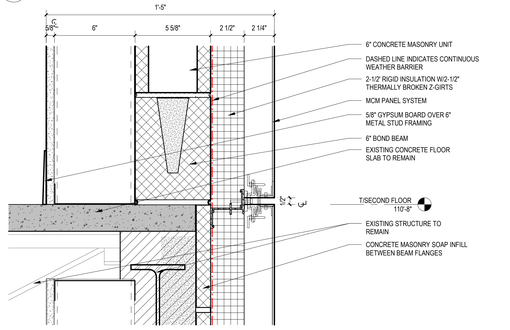
8 ROOF DETAIL - POST FLASHING
3" = 1'-0" AR101



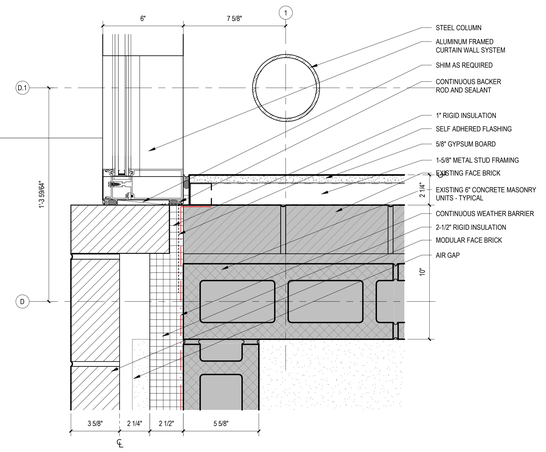
4 SECTION DETAIL
3" = 1'-0" A-313



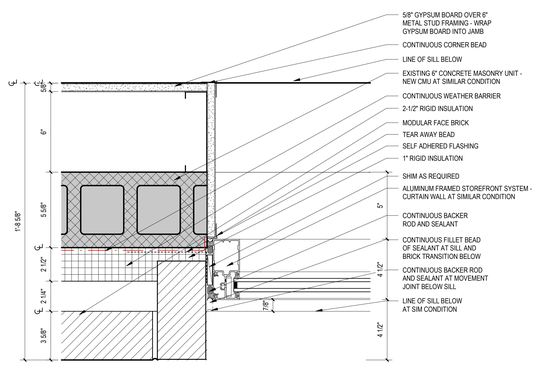
7 SECTION DETAIL
3" = 1'-0" A-314



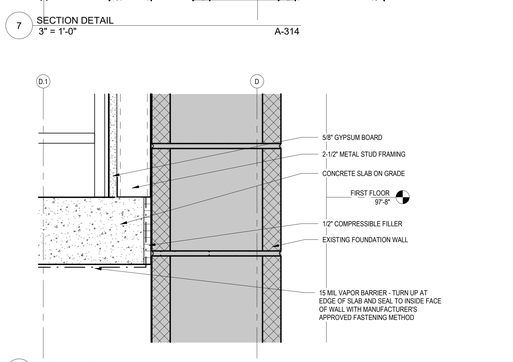
3 SECTION DETAIL
3" = 1'-0" A-313



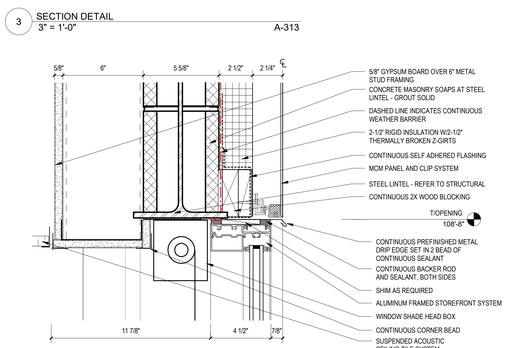
13 PLAN DETAIL
3" = 1'-0" A-101B



10 PLAN DETAIL
3" = 1'-0" A-101C



6 SECTION DETAIL
3" = 1'-0" A-314



2 SECTION DETAIL
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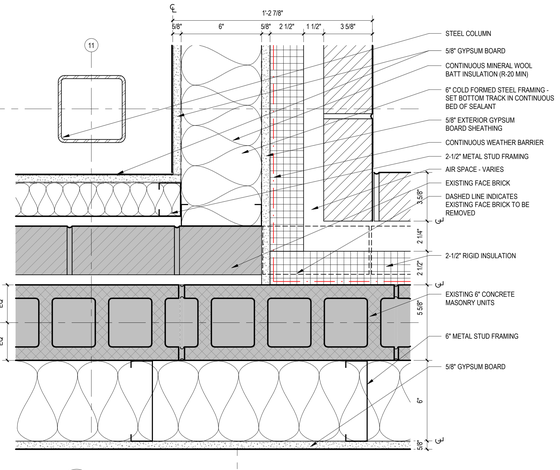
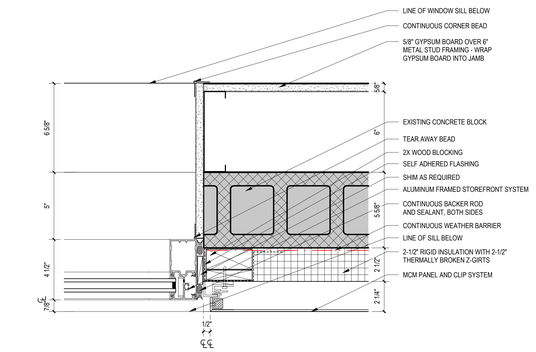
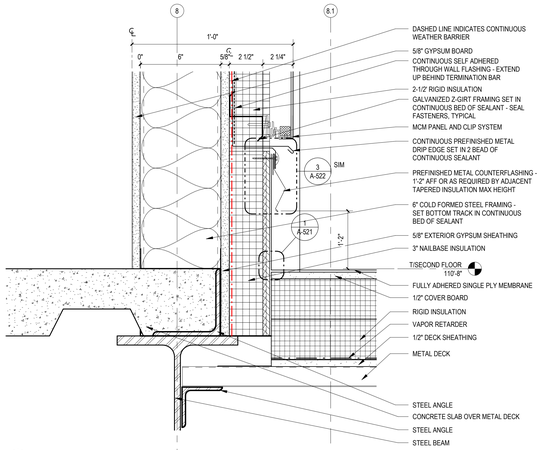


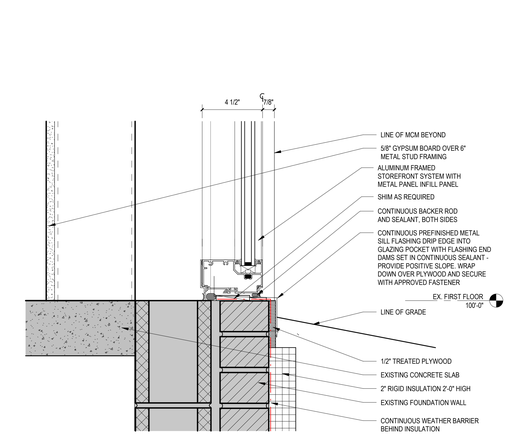
12 PLAN DETAIL
3" = 1'-0" A-101C



9 PLAN DETAIL
3" = 1'-0" A-101C



5 SECTION DETAIL
3" = 1'-0" A-314



1 SECTION DETAIL
3" = 1'-0" A-313

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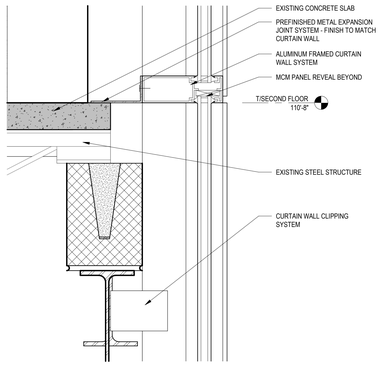
DRAWN BY	JC
REVIEWED BY	ZC

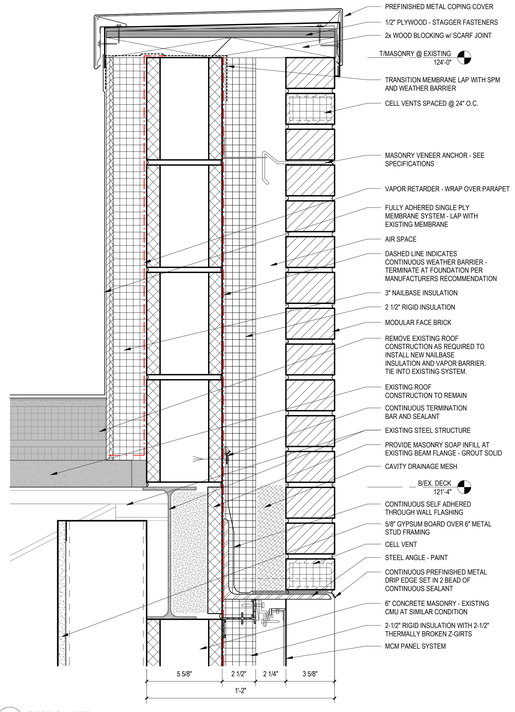
EXTERIOR DETAILS

A-505

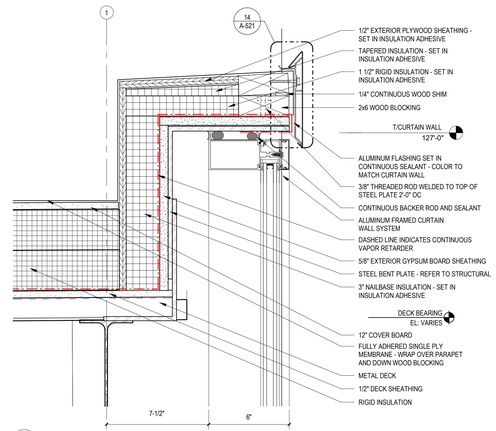
BIDDING



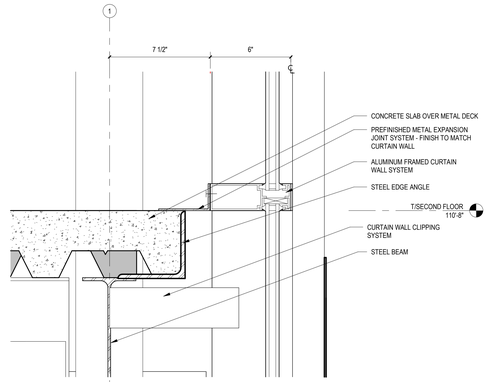
14 SECTION DETAIL 3" = 1'-0" A-315



10 SECTION DETAIL 3" = 1'-0" A-313



8 SECTION DETAIL 3" = 1'-0" A-315



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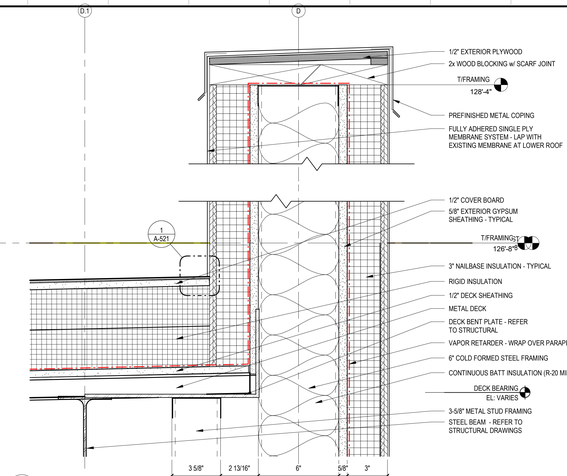
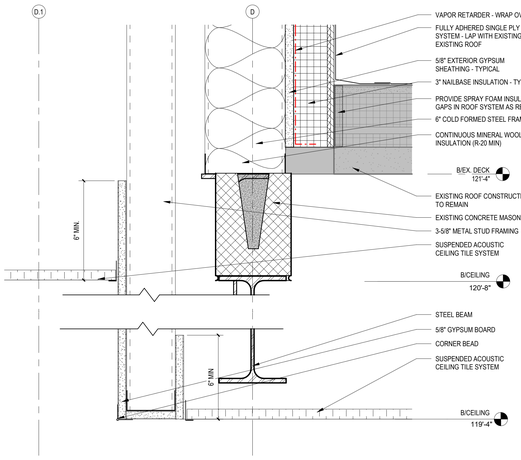
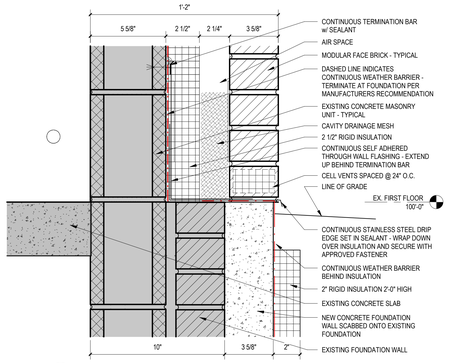


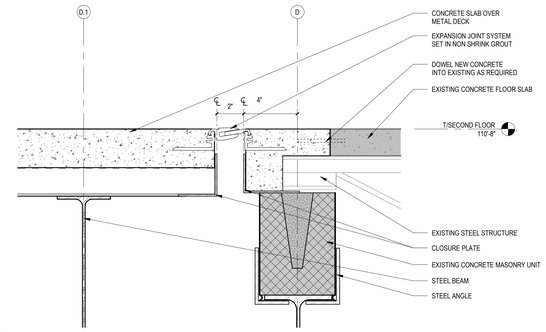
4 SECTION DETAIL 3" = 1'-0" A-314



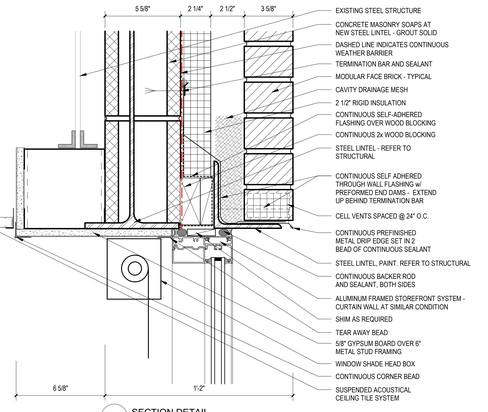
3 SECTION DETAIL 3" = 1'-0" A-314



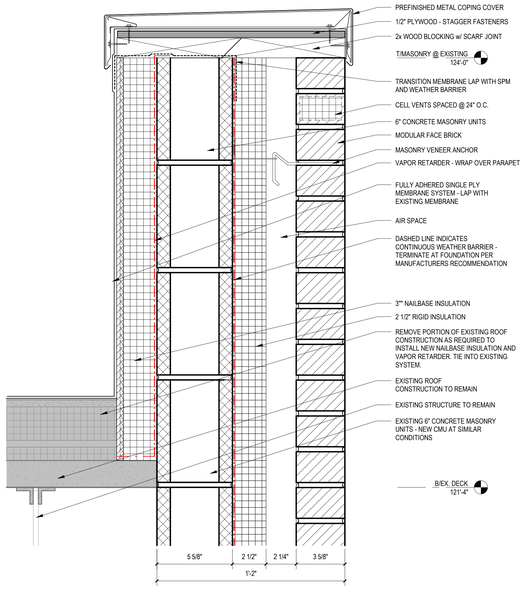
6 SECTION DETAIL 3" = 1'-0" A-313



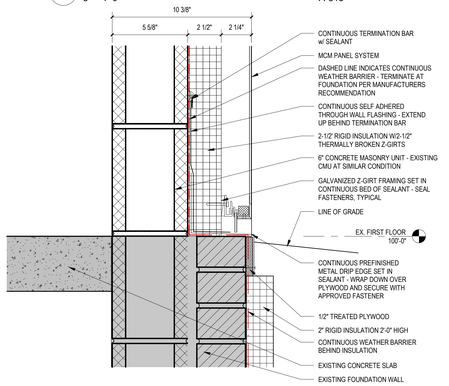
2 SECTION DETAIL 3" = 1'-0" A-314



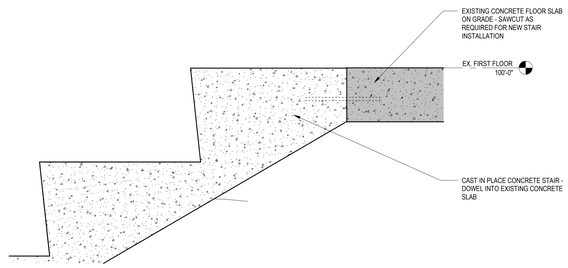
12 SECTION DETAIL 3" = 1'-0" A-315



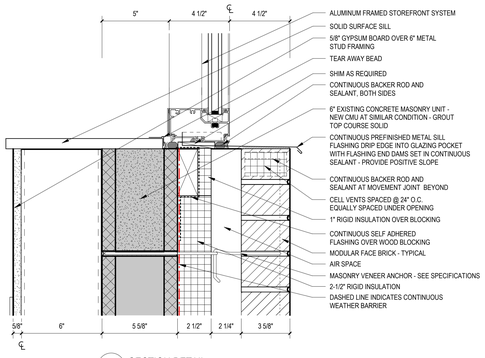
9 SECTION DETAIL 3" = 1'-0" A-313



5 SECTION DETAIL 3" = 1'-0" A-313



1 SECTION DETAIL 3" = 1'-0" A-314



11 SECTION DETAIL 3" = 1'-0" A-315

LEGAT ARCHITECTS
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REVISIONS

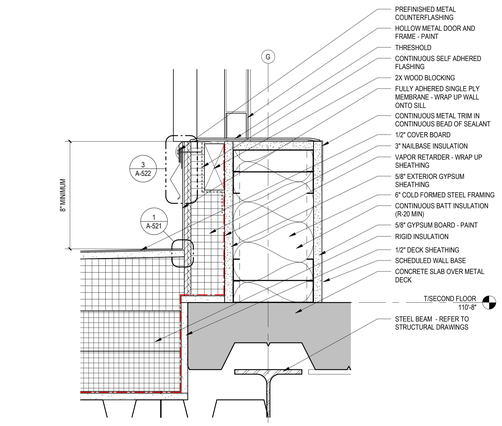
NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	VP
REVIEWED BY	BE

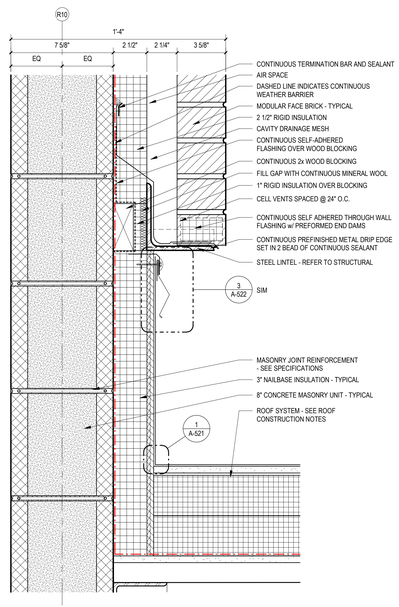
EXTERIOR DETAILS

A-506

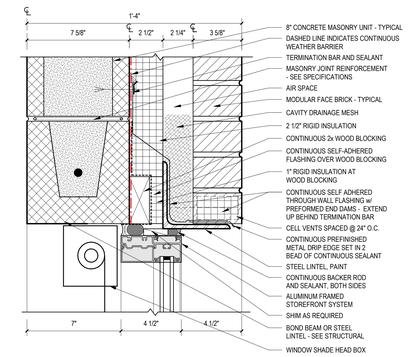
BIDDING



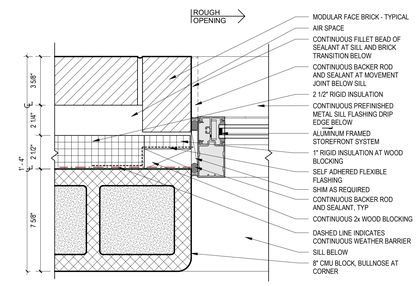
4 SECTION DETAIL
3" = 1'-0" A-201



3 SECTION DETAIL
3" = 1'-0" A-102A



2 SECTION DETAIL
3" = 1'-0" A-315



1 TYPICAL BRICK JAMB DETAIL
3" = 1'-0" A-621

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REVISIONS

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PROJECT NUMBER	224150.00
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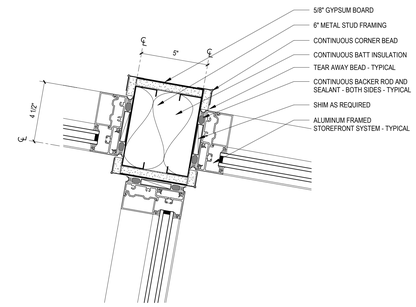
DRAWN BY	VP
REVIEWED BY	JS

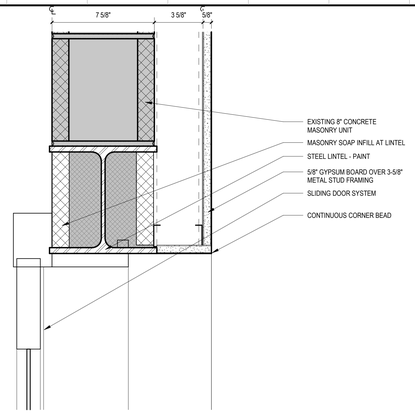
EXTERIOR DETAILS

A-507

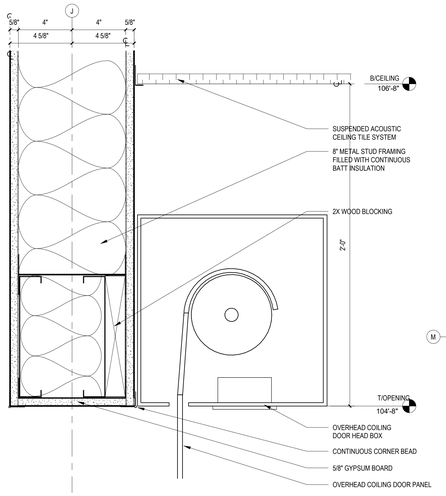
BIDDING



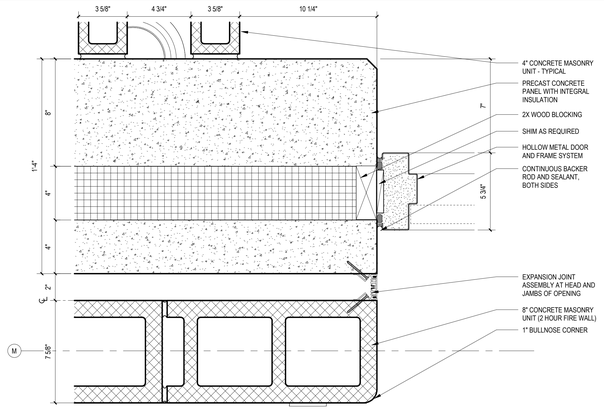
15 PLAN DETAIL
3" = 1'-0" A-101A



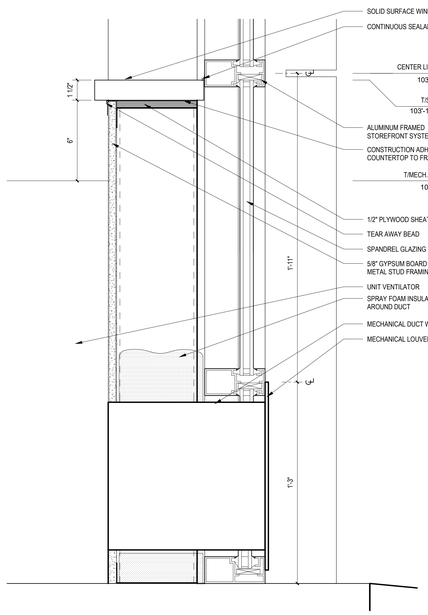
11 SECTION DETAIL - SLIDING DOOR HEAD DETAIL
3" = 1'-0" A-214



7 SECTION DETAIL - COILING DOOR
3" = 1'-0" A-314



4 PLAN DETAIL - FIRE WALL
3" = 1'-0" A-101A



14 SECTION DETAIL - UNIT VENTILATOR
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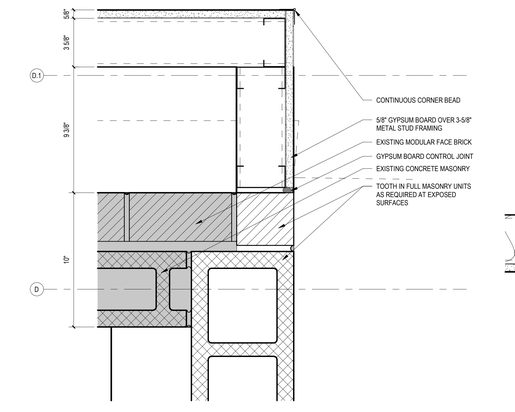
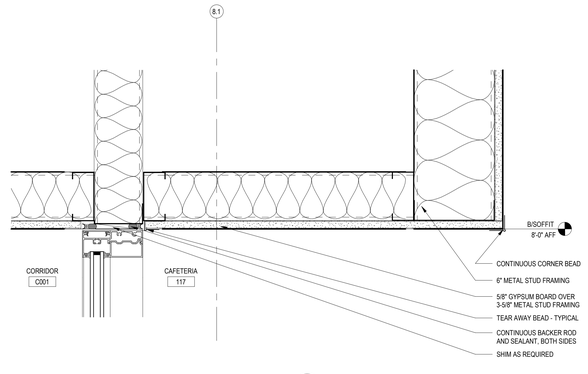
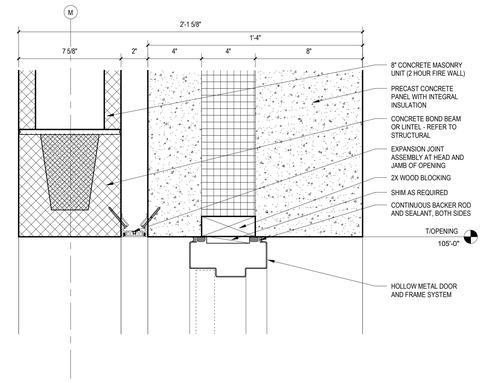


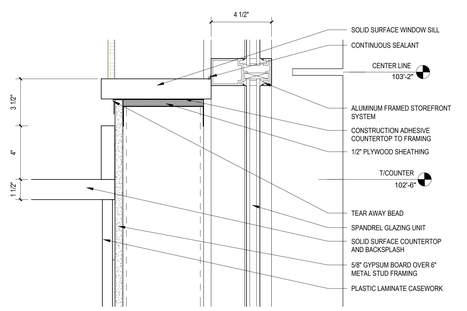
10 PLAN DETAIL
3" = 1'-0" A-102B



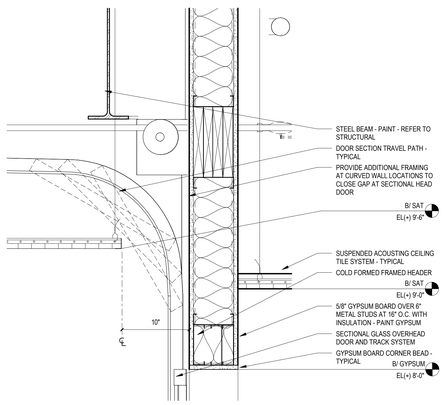
6 SECTION DETAIL
3" = 1'-0" A-314



3 SECTION DETAIL - FIRE WALL
3" = 1'-0" A-101A



13 SECTION DETAIL
3" = 1'-0" A-101C



9 SECTION DETAIL
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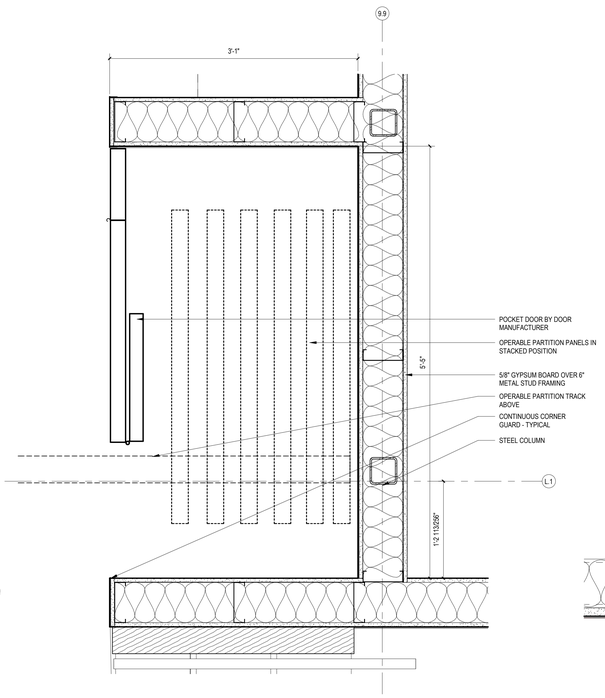
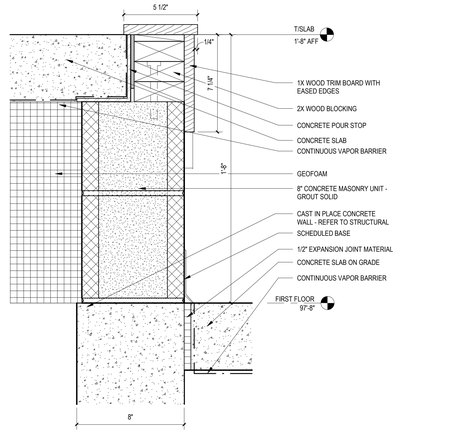
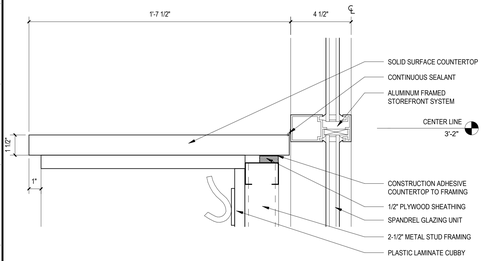


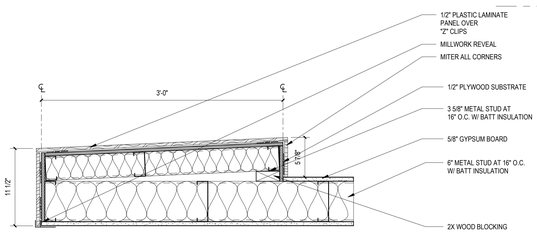
5 PLAN DETAIL- OPERABLE PARTITION
1 1/2" = 1'-0" A-101A



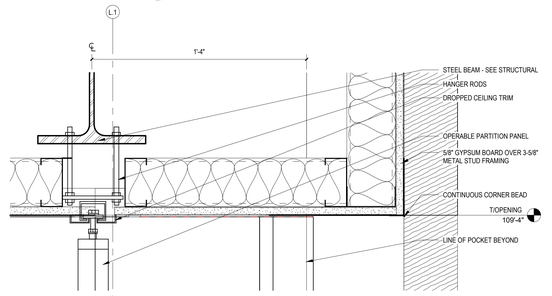
2 SECTION DETAIL - STAGE
3" = 1'-0" A-212



12 SECTION DETAIL
3" = 1'-0" A-101A



8 PLAN DETAIL - STAGE
1 1/2" = 1'-0" A-212



1 SECTION DETAIL - OPERABLE PARTITION
3" = 1'-0" A-314

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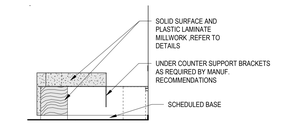
PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	JC
REVIEWED BY	ZC

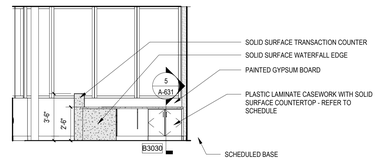
INTERIOR DETAILS

A-511

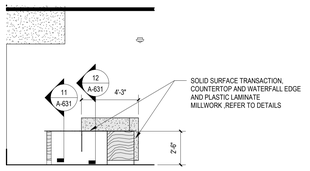
BIDDING



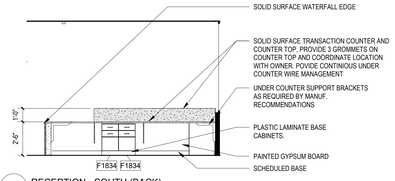
10 MEDIA CENTER CIRCULATION DESK
1/4" = 1'-0" A-512



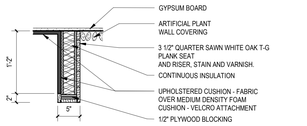
5 RECEPTION - WEST
1/4" = 1'-0" A-512



9 MEDIA CENTER CIRCULATION DESK
1/4" = 1'-0" A-512



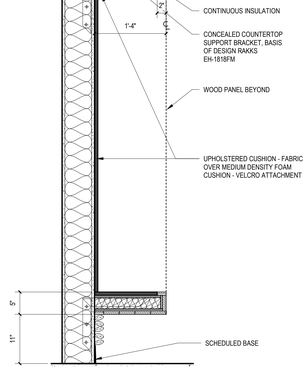
4 RECEPTION - SOUTH (BACK)
1/4" = 1'-0" A-512



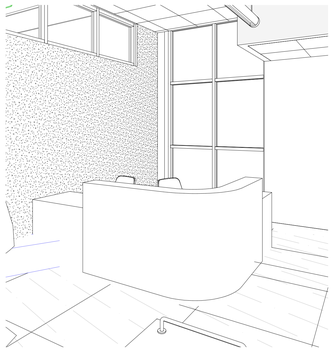
13 DISCOVERY LAB CUBBY SECTION
1" = 1'-0" A-214

8 MEDIA CENTER CIRCULATION DESK
1/4" = 1'-0" A-512

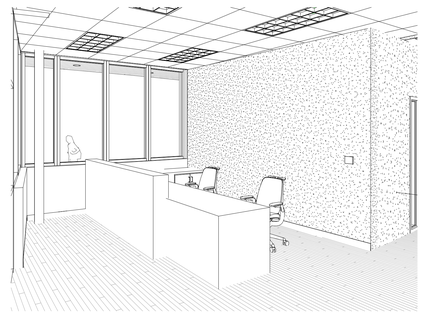
3 RECEPTION - FRONT
1/4" = 1'-0" A-512



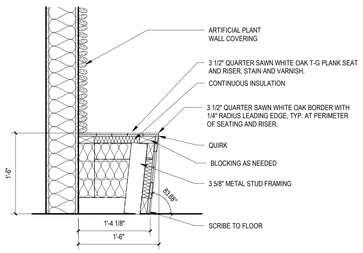
12 DISCOVERY LAB CUBBY SECTION
1" = 1'-0" A-214



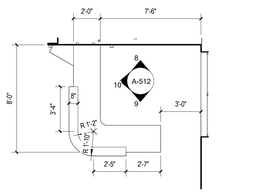
7 MEDIA CENTER CIRCULATION DESK



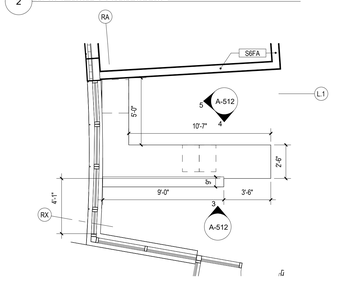
2 RECEPTION DESK IN OFFICE



11 DISCOVERY LAB BENCH SECTION
1" = 1'-0" A-214



6 MEDIA CENTER CIRCULATION DESK
1/4" = 1'-0" A-102B



1 RECEPTION DESK
1/4" = 1'-0" A-101A

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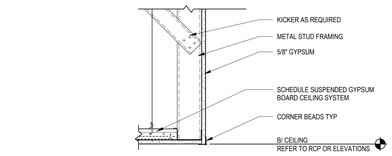
DRAWN BY	MT
REVIEWED BY	ZC

INTERIOR DETAILS

A-512

BIDDING



14 TRANSITION - GYP / GYP SOFFIT
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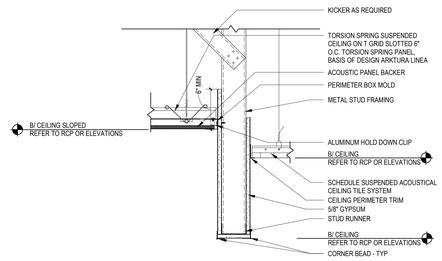
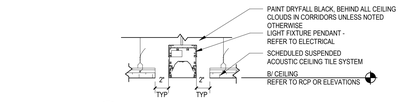
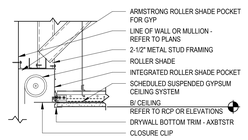


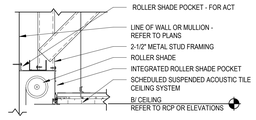
11 SECTION THRU LOBBY METAL CEILING AND ACT
1 1/2" = 1'-0" A-213



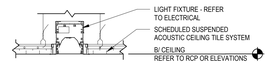
9 LINEAR LIGHTFIXTURE - CEILING GRID
1 1/2" = 1'-0" AC101A



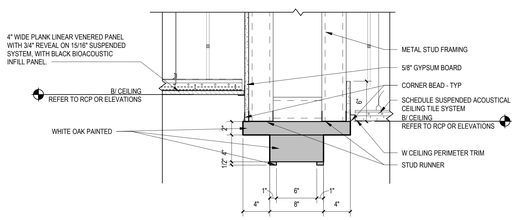
13 PERIMETER SHADE POCKET AT GYP CEILING
1 1/2" = 1'-0"



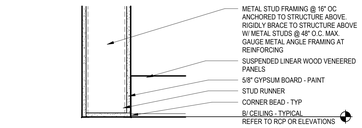
12 PERIMETER SHADE POCKET AT ACT CEILING
1 1/2" = 1'-0"



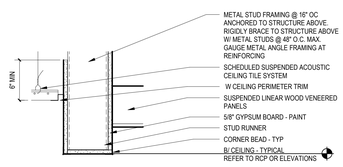
10 LINEAR LIGHTFIXTURE - CEILING GRID
1 1/2" = 1'-0"



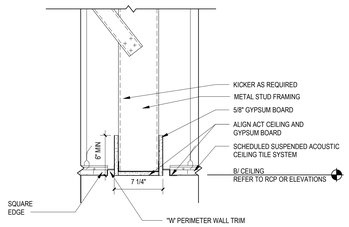
8 PORCH CEILING TO BULKHEAD TO ACT
1 1/2" = 1'-0" A-201



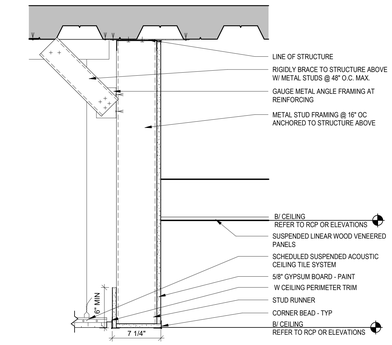
17 CEILING DETAIL - SECOND FLORO PORCH AT LEARNING STAIR
1 1/2" = 1'-0" AC102B



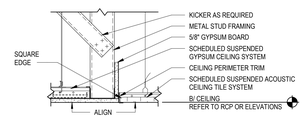
16 SECTION DETAIL
1 1/2" = 1'-0" AC102B



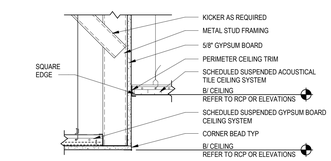
15 CORRIDOR ACT TO BULKHEAD TO ACT
1 1/2" = 1'-0" AC101B



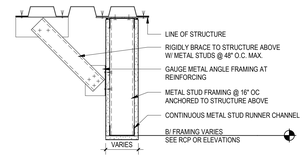
7 SECTION THRU PORCH AND CORRIDOR
1 1/2" = 1'-0" A-102B



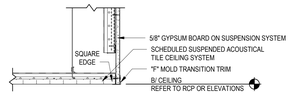
6 TRANSITION TO ACT - FLUSH
1 1/2" = 1'-0"



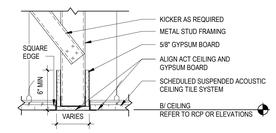
5 TRANSITION GYP-ACT SOFFIT
1 1/2" = 1'-0" AC101A



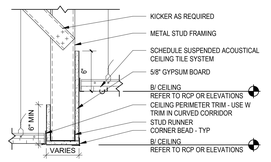
4 KICKER TO METAL DECK W/GYP BOARD
1 1/2" = 1'-0"



3 PERIMETER TRIM ACT- GYPSUM VERTICAL TRIM
1 1/2" = 1'-0"



2 GYPSUM BULKHEAD - ACT FLUSH
1 1/2" = 1'-0" AC101C



1 GYPSUM BULKHEAD - ACT CEILING VARYING HEIGHTS
1 1/2" = 1'-0" AC101A

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SIGNATURE

DATE

REVISIONS

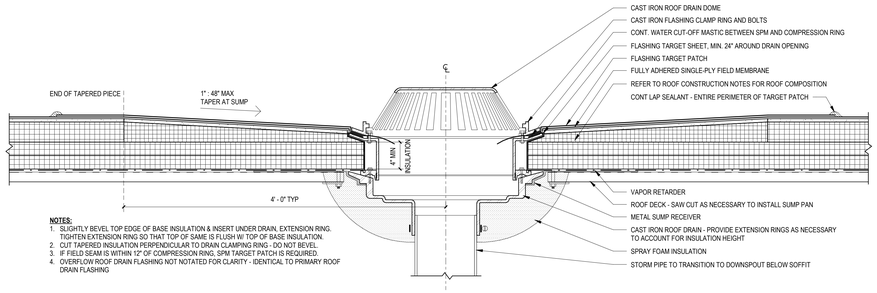
NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	MT
REVIEWED BY	ZC

INTERIOR DETAILS - CEILINGS

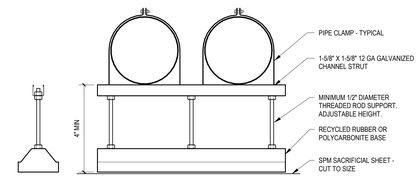
A-513

BIDDING



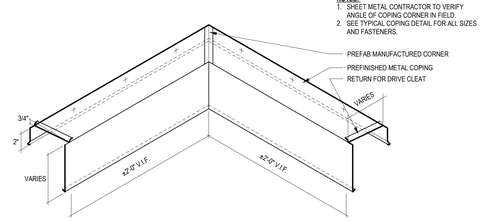
NOTES:
1. SLIGHTLY BEVEL TOP EDGE OF BASE INSULATION & INSERT UNDER DRAIN, EXTENSION RING, TIGHTEN EXTENSION RING SO THAT TOP OF SAME IS FLUSH W/ TOP OF BASE INSULATION.
2. CUT TAPERED INSULATION PERPENDICULAR TO DRAIN CLAMPING RING - DO NOT BEVEL.
3. IF FIELD SEAM IS WITHIN 12" OF COMPRESSION RING, SPM TARGET PATCH IS REQUIRED.
4. OVERFLOW ROOF DRAIN FLASHING NOT NOTATED FOR CLARITY - IDENTICAL TO PRIMARY ROOF DRAIN FLASHING

15 ROOF PENETRATION - ROOF DRAIN
1 1/2" = 1'-0" A-521



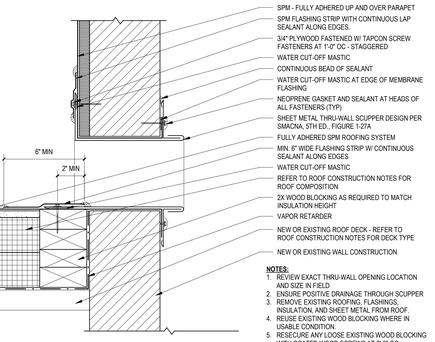
NOTE:
1. PIPE SUPPORTS TO BE SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR GIVEN WEIGHT PER PIPE STAND

4 PIPE SUPPORT > 2" OUTSIDE DIAMETER
1 1/2" = 1'-0"



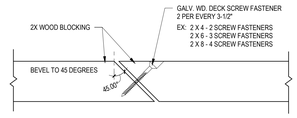
NOTES:
1. SHEET METAL CONTRACTOR TO VERIFY ANGLE OF COPING CORNER IN FIELD.
2. SEE TYPICAL COPING DETAIL FOR ALL SIZES AND FASTENERS.

12 INSIDE COPING CORNER DETAIL
1 1/2" = 1'-0"

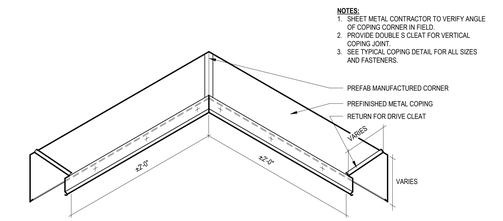


NOTES:
1. REVIEW EXACT THRU-WALL OPENING LOCATION AND SIZE IN FIELD.
2. ENSURE POSITIVE DRAINAGE THROUGH SCUPPER
3. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL FROM ROOF.
4. REUSE EXISTING WOOD BLOCKING WHERE IN USABLE CONDITION.
5. RESECURE ANY LOOSE EXISTING WOOD BLOCKING WITH COATED WOOD SCREWS AT 2'-0" OC

19 SHEET METAL SCUPPER
3" = 1'-0" AR101

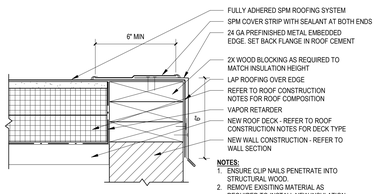


2 TYP. MITERED WOOD BLOCKING DETAIL
6" = 1'-0"



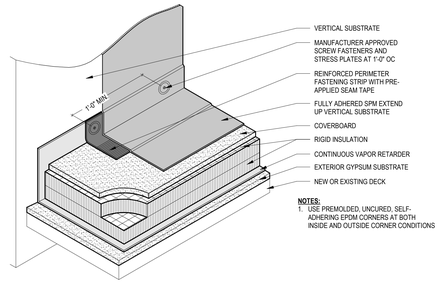
NOTES:
1. SHEET METAL CONTRACTOR TO VERIFY ANGLE OF COPING CORNER IN FIELD.
2. PROVIDE DOUBLE S CLEAT FOR VERTICAL COPING JOINT.
3. SEE TYPICAL COPING DETAIL FOR ALL SIZES AND FASTENERS.

11 OUTSIDE COPING CORNER DETAIL
1 1/2" = 1'-0"



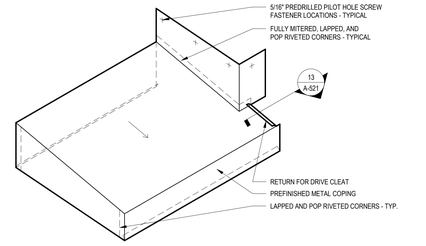
NOTES:
1. ENSURE CLIP NAILS PENETRATE INTO STRUCTURAL WOOD.
2. REMOVE EXISTING MATERIAL AS REQUIRED TO INSTALL NEW INSULATION AND COVER BOARD.

23 ROOF EDGE - DRIP EDGE FASCIA
3" = 1'-0" A-314

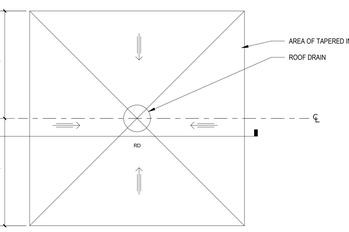


NOTES:
1. USE PREMOLDED, UNCURED, SELF-ADHERING EPDM CORNERS AT BOTH INSIDE AND OUTSIDE CORNER CONDITIONS

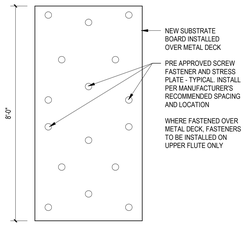
1 EPDM BASE FLASHING AXON
1 1/2" = 1'-0" A-314



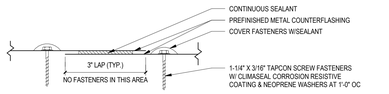
10 END WALL FLASHING DETAIL
1 1/2" = 1'-0"



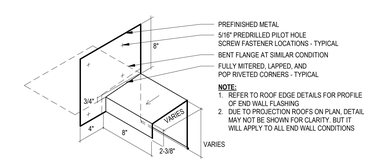
17 ROOF PENETRATION - ROOF DRAIN PAN
1/2" = 1'-0" AR101



7 MECHANICAL FASTENING DETAIL
1/2" = 1'-0"

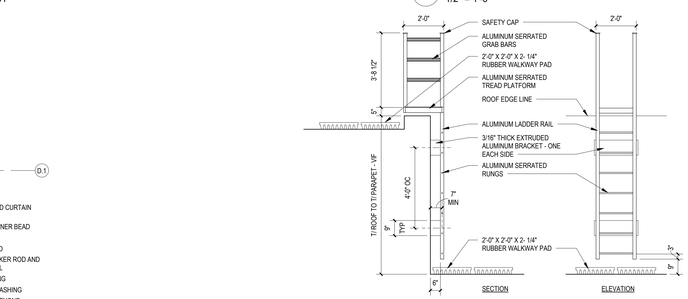


16 TYPICAL COUNTERFLASHING LAP JOINT
6" = 1'-0"

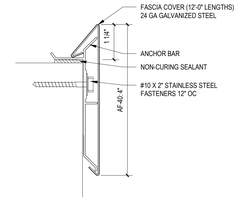


NOTE:
1. REFER TO ROOF EDGE DETAILS FOR PROFILE OF END WALL FLASHING
2. DUE TO PROJECTION ROOFS ON PLAN, DETAIL MAY NOT BE SHOWN FOR CLARITY. BUT IT WILL APPLY TO ALL END WALL CONDITIONS

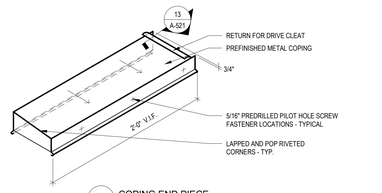
9 END WALL FLASHING DETAIL
1 1/2" = 1'-0"



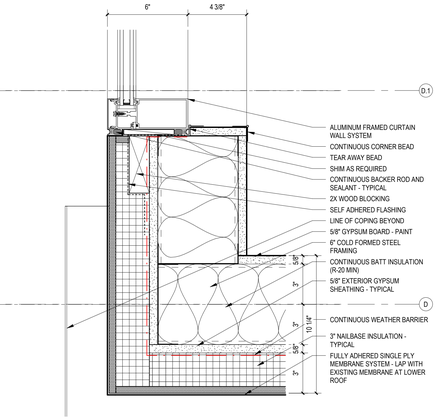
6 ROOF LADDER DETAIL
3/8" = 1'-0" AR101



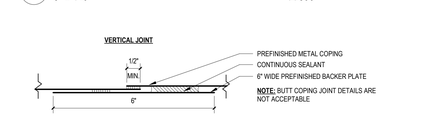
14 PARAPET COPING - PREFAB
6" = 1'-0" A-506



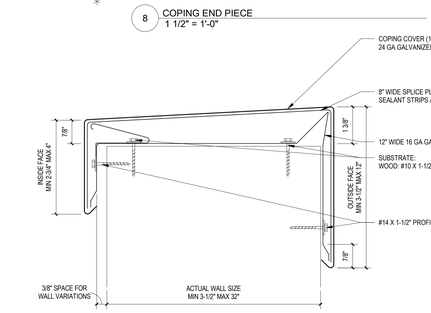
8 COPING END PIECE
1 1/2" = 1'-0"



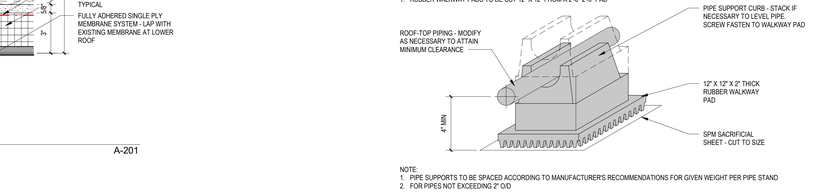
22 PLAN DETAIL
3" = 1'-0" A-201



13 HORIZONTAL COPING CLEAT JOINT DETAIL
6" = 1'-0" A-521



21 PARAPET COPING - PREFAB - METAL ERA
6" = 1'-0" A-501



NOTE:
1. RUBBER WALKWAY PADS TO BE CUT 12" X 12" FROM A 2'-0" 2'-0" PAD

NOTE:
1. PIPE SUPPORTS TO BE SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR GIVEN WEIGHT PER PIPE STAND
2. FOR PIPES NOT EXCEEDING 2" O/D

5 PIPE SUPPORT < 2" OUTSIDE DIAMETER
1 1/2" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
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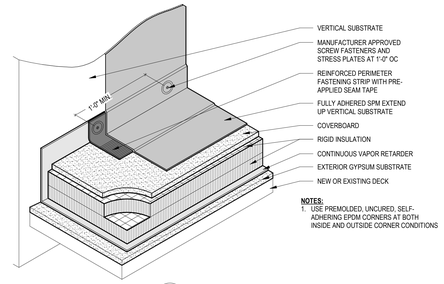
DRAWN BY	MB
REVIEWED BY	ZC

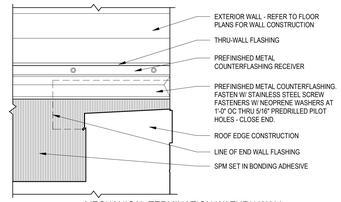
TYPICAL ROOF DETAILS PREFINISHED METAL

A-521

BIDDING

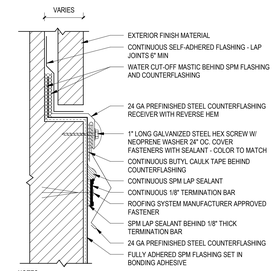


5 EPDM BASE FLASHING AXON
1 1/2" = 1'-0" A-312

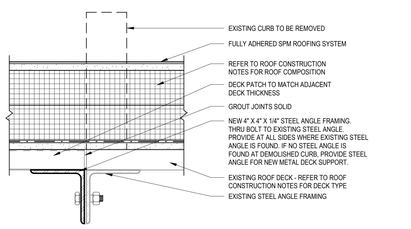


4 MECHANICAL TERMINATION W/ THRU WALL COUNTERFLASHING ELEVATION
3" = 1'-0"

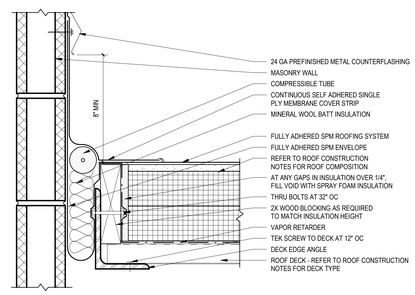
3A TERM W/ COUNTERFLASHING SILL AXON
1 1/2" = 1'-0"



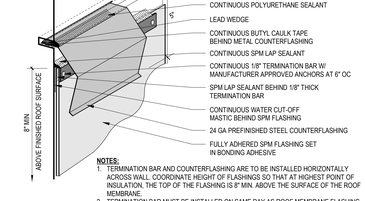
3 TERMINATION W/ COUNTERFLASHING SILL
6" = 1'-0" A-504



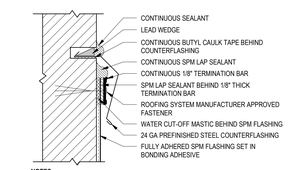
12 CURB - REMOVAL & INFILL
3" = 1'-0"



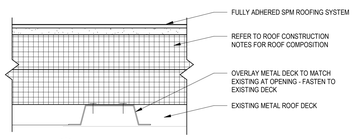
8 EXPANSION JOINT - COMPRESSIBLE TUBE
3" = 1'-0" A-503



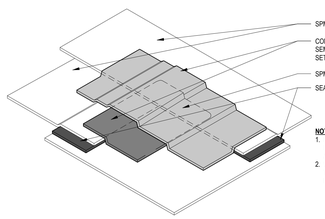
2A TERMINATION W/ COUNTERFLASHING REGLET AXON
3" = 1'-0"



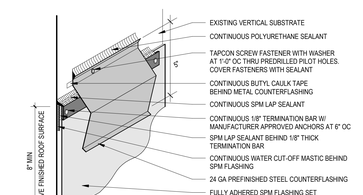
2 TERMINATION W/ COUNTERFLASHING REGLET
6" = 1'-0" A-503



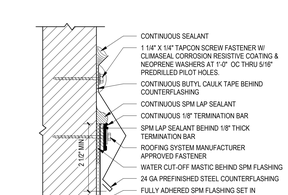
11 ROOF INFILL
3" = 1'-0"



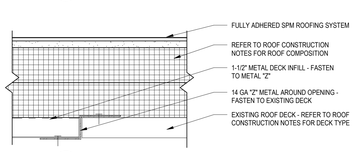
7 EPDM LAP SEAM INTERSECTION JOINT
1 1/2" = 1'-0"



1A TERMINATION W/ COUNTERFLASHING AXON
3" = 1'-0"

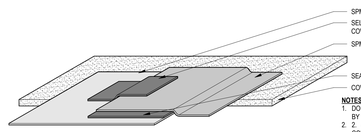


1 TERMINATION W/ COUNTERFLASHING
6" = 1'-0" A-522



10 ROOF INFILL - 8" OPENING OR LESS
3" = 1'-0"

9 ROOF INFILL
3" = 1'-0"



6 EPDM LAP SEAM W/ COVER STRIP
1 1/2" = 1'-0"

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SIGNATURE

DATE

REVISIONS

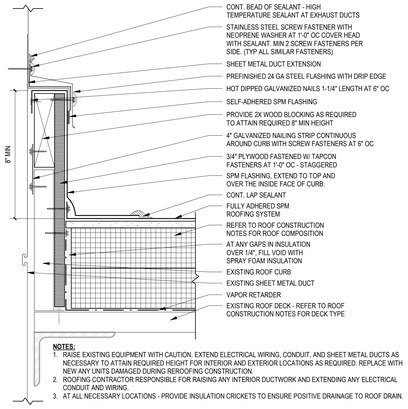
NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	KE
REVIEWED BY	MS

TYPICAL ROOF DETAILS SINGLE-PLY MEMBRANE

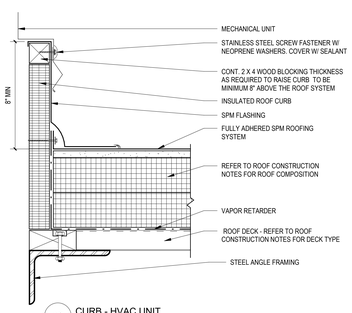
A-522

BIDDING

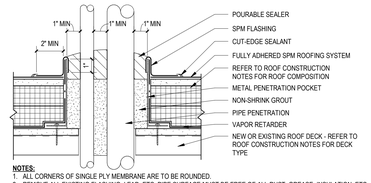


NOTES:
1. RAISE EXISTING EQUIPMENT WITH CAUTION. EXTEND ELECTRICAL WIRING, CONDUIT, AND SHEET METAL DUCTS AS NECESSARY TO ATTAIN REQUIRED HEIGHT FOR INTERIOR AND EXTERIOR LOCATIONS AS REQUIRED. REPLACE WITH NEW ANY UNITS DAMAGED DURING REROOFING CONSTRUCTION.
2. ROOFING CONTRACTOR RESPONSIBLE FOR RAISING ANY INTERIOR DUCTWORK AND EXTENDING ANY ELECTRICAL CONDUIT AND WIRING.
3. AT ALL NECESSARY LOCATIONS - PROVIDE INSULATION CRICKETS TO ENSURE POSITIVE DRAINAGE TO ROOF DRAIN.

11 CURB - EXTENSION
3" = 1'-0"

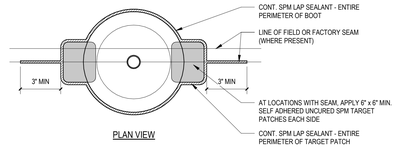


10 CURB - HVAC UNIT
3" = 1'-0" A-523

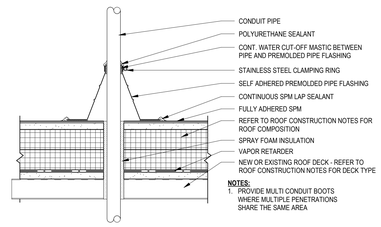


NOTES:
1. ALL CORNERS OF SINGLE PLY MEMBRANE ARE TO BE ROUNDED.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. DO NOT USE OVER EXISTING PENETRATION POCKETS.
4. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180 FAHRENHEIT.
5. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING.
6. PRIME PENETRATIONS AND INSIDE OF POCKET BEFORE INSTALLING POURABLE SEALER.

7 PENTRATION POCKET
3" = 1'-0"



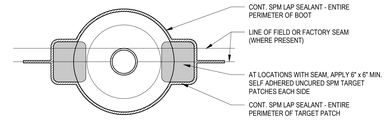
PLAN VIEW



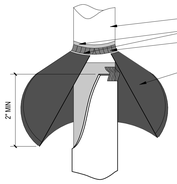
NOTES:
1. PROVIDE MULTI CONDUIT BOOTS WHERE MULTIPLE PENETRATIONS SHARE THE SAME AREA

SECTION VIEW

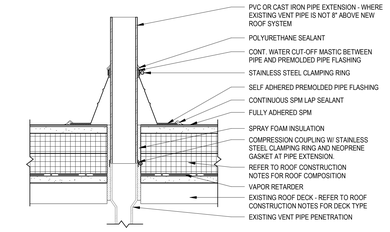
3 CONDUIT PENETRATION DETAIL
3" = 1'-0"



PLAN VIEW

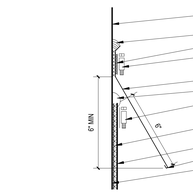


6 RAIN HOOD SECTION AXON
3" = 1'-0"

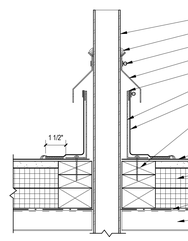


SECTION VIEW

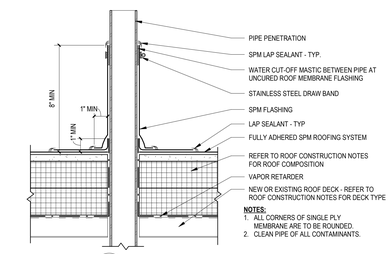
2 EXISTING VENT PIPE EXTENSION
3" = 1'-0"



5 RAIN HOOD SECTION DETAIL
3" = 1'-0"

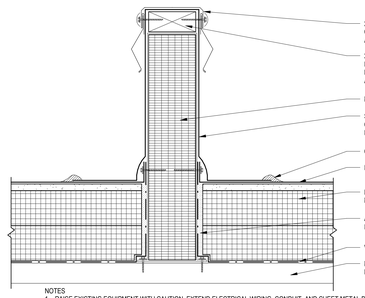


4 HOT PIPE FLASHING
3" = 1'-0"



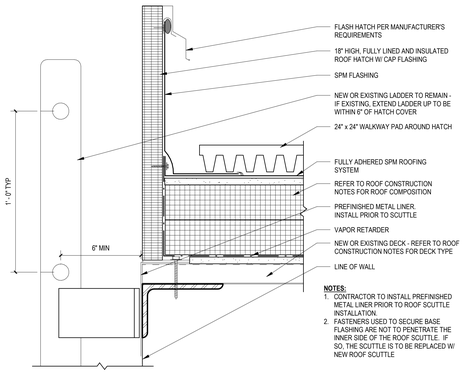
NOTES:
1. ALL CORNERS OF SINGLE PLY MEMBRANE ARE TO BE ROUNDED.
2. CLEAN PIPE OF ALL CONTAMINANTS.

1 COLD PIPE FLASHING - FIELD FAB
3" = 1'-0"



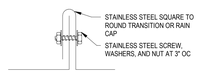
NOTES:
1. RAISE EXISTING EQUIPMENT WITH CAUTION. EXTEND ELECTRICAL WIRING, CONDUIT, AND SHEET METAL DUCTS AS NECESSARY TO ATTAIN REQUIRED HEIGHT FOR INTERIOR AND EXTERIOR LOCATIONS AS REQUIRED. REPLACE WITH NEW ANY UNITS DAMAGED DURING REROOFING CONSTRUCTION.
2. ROOFING CONTRACTOR RESPONSIBLE FOR RAISING ANY INTERIOR DUCTWORK AND EXTENDING ANY ELECTRICAL CONDUIT AND WIRING.
3. AT ALL NECESSARY LOCATIONS - PROVIDE INSULATION CRICKETS TO ENSURE POSITIVE DRAINAGE TO ROOF DRAIN.

13 ROOF CURB - PREFABRICATED
3" = 1'-0"

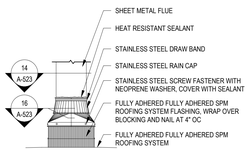


NOTES:
1. CONTRACTOR TO INSTALL PREFINISHED METAL LINER PRIOR TO ROOF SCUTTLE INSTALLATION.
2. FASTENERS USED TO SECURE BASE FLASHING ARE NOT TO PENETRATE THE INNER SIDE OF THE ROOF SCUTTLE. IF SO, THE SCUTTLE IS TO BE REPLACED W/ NEW ROOF SCUTTLE

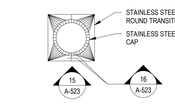
9 CURB - ROOF HATCH
3" = 1'-0"



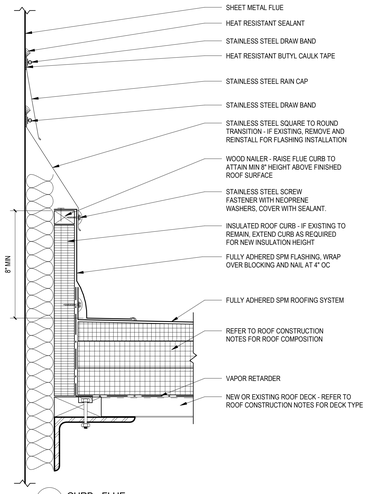
16 FLUE SHEET METAL SEAM
3" = 1'-0" A-523



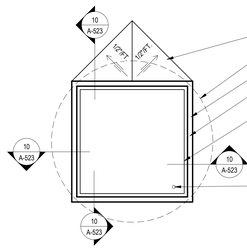
15 FLUE IN ELEVATION
3/4" = 1'-0" A-523



14 FLUE IN PLAN
3/4" = 1'-0" A-523



12 CURB - FLUE
3" = 1'-0"



8 CURB - HVAC UNIT PLAN
1 1/2" = 1'-0" AR101

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DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10.23.2025
DRAWN BY	KE
REVIEWED BY	MS

TYPICAL ROOF DETAILS SINGLE-PLY MEMBRANE PENTRATIONS & CURBS

A-523

BIDDING

DOOR AND FRAME SCHEDULE

DOOR #	FROM ROOM	TO ROOM	DOOR TYPE	DOOR MATERIAL	DOOR OPENING G WIDTH	DOOR DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	FRAME TYPE	FRAME MATERIAL	FRAME DEPTH	FRAME HDWR	FIRE RATING (MINS)	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS JAMB	FRAME DETAILS SILL	SIGNAGE TYPE	REFERENCED NOTES
		VESTIBULE	FG	AL	3'-0"	7'-0"		1 3/4"	-	-									
100A		VESTIBULE	FG	AL	3'-0"	3'-0"	7'-0"	1 3/4"	-	-									
100B		VESTIBULE	FG2	AL	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	-	-									
100C	VESTIBULE	CORRIDOR	FG2	AL	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	-	-									
100D	VESTIBULE	CORRIDOR	FG	AL	3'-0"	3'-0"	7'-0"	1 3/4"	-	-									
100E	VESTIBULE	RAMP	F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
100F	GYM	VESTIBULE	F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
100G	KITCHEN	VESTIBULE	F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
100H	VESTIBULE		F	HM	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
100I		VESTIBULE	FG2	AL	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	-	-									
100J	VESTIBULE		FG2	AL	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	-	-									
100K	VESTIBULE		<varies>	AL	<varies>	<varies> / <varies>	7'-0"	1 3/4"	-	-									
100L	VESTIBULE	CORRIDOR	FG2	AL	7'-0"	3'-6" / 3'-6"	7'-0"	1 3/4"	-	-									
101	VESTIBULE	RECEPTION	FG	AL	3'-0"	3'-0"	7'-0"	1 3/4"	-	-									
101A	CORRIDOR	RAMP	FG	AL	3'-0"	3'-0"	7'-2"	1 3/4"	-	-									
101B	CORRIDOR	RECEPTION	FG	AL	3'-2"	3'-2"	7'-0"	1 3/4"	-	-									
102	CORRIDOR	RESOURCE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
102.2		STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
103	CORRIDOR		F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
104	CONFERENCE	CORRIDOR	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
105	CORRIDOR	PRINCIPAL	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
106	CORRIDOR	STAFF TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
108	CORRIDOR	ASSIST. PRINC.	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
109	RECEPTION	NURSE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
109A	NURSE	NURSE TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
109B	CLOSET	NURSE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
110	RECEPTION	FLEX OFFICE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
111	IDF	CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
112	TOILET	<varies>	F	WD	3'-0"	3'-0"	<varies>	1 3/4"	DF	HM	<varies>								
112A	RAMP	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"								
112B	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	6 5/8"								
112C	TOILET	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	6 5/8"								
112D	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	6 5/8"								
112E	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	6 5/8"								
112F	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	6 5/8"								
113	GYM	RAMP	F	WD	6'-0"	3'-0" / 3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"								
113A	GYM	OFFICE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"								
113B	GYM STORAGE	GYM	F	WD	6'-0"	3'-0" / 3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"								
113C	STAIRS	GYM	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 5/8"								
113D	STAIRS	GYM STORAGE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"								
113E	GYM		F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
115	STAGE / MUSIC	RAMP	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
115A	STAGE / MUSIC	STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
116		<varies>	<varies>	<varies>	<varies>	<varies> / <varies>	7'-0"	<varies>	<varies>	<varies>	<varies>								
117	CAFETERIA	CORRIDOR	FG2	AL	6'-0"	3'-0" / 3'-0"	7'-10"	1 3/4"	-	-									
117A	CORRIDOR	CAFETERIA	FG2	AL	5'-11 5/256"	2'-11 39/64" / 2'-11 39/64"	7'-10"	1 3/4"	-	-									
117B	CAFETERIA	STORAGE	F	HM	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	10 1/4"								
117C	CAFETERIA		FG2	AL	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	-	-									
117D	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
117E	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
117F	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
117G	ROOM	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
118.1	CAFETERIA	SERVERY	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	10 1/4"								
118.2	CAFETERIA	SERVERY	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	10 1/4"								
118A	DISH	CAFETERIA	OHRD	GS	6'-0"	4'-2"	FM		GS	0"									
118B	SERVERY	CAFETERIA	OHRD	GS	10'-0"	7'-0"		FM	GS	0"									
118D	JANITOR	KITCHEN	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
118E	KITCHEN	FREEZER	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
118F	KITCHEN	COOLER	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
119	KITCHEN	DRY STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
121	CUSTODIAL	CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
122	SPECIAL ED	CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
122A	STORAGE	SPECIAL ED	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
122B	SPECIAL ED	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
122C	KITCHENETTE	SPECIAL ED	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
123	CORRIDOR	SPECIAL ED	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
123A	STORAGE	SPECIAL ED	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
123B	SPECIAL ED	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
123C	SPECIAL ED	KITCHENETTE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
124	RAMP	CORRIDOR	F	WD	8'-0"	4'-0" / 4'-0"	7'-4"	1 3/4"	DF	HM	8 1/4"								
125		OT/PT	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
125A	STORAGE	OT/PT	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
126	SOCIAL WORKER		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
127	PSYCHOLOGIST		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
128	SPECIAL ED		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
128A	SPECIAL ED	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
128B	SPECIAL ED	SPECIAL ED STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
129		BOILER ROOM	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 5/8"		90						
129B	MECHANICAL	CORRIDOR	F	WD	3'-8"	3'-8"	7'-0"	1 3/4"	DF	HM	8 1/4"								
130	KINDERGARTEN		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
130A	TOILET	KINDERGARTEN	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
130B	KINDERGARTEN	K. STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
131	STAFF BREAK ROOM	CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
131A	STAFF BREAK ROOM	WELLNESS	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
131B	STAFF BREAK ROOM	STAFF TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
131C		STAFF TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
132	KINDERGARTEN		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
132A	KINDERGARTEN	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
132B	K. STORAGE	KINDERGARTEN	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
133	CORRIDOR	ML SPECIALIST	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
134	KINDERGARTEN		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
134A	KINDERGARTEN	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
134B	KINDERGARTEN	K. STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
135	COLLAB - PORCH	INSTRUCTIONAL COACH	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
137	COLLAB - PORCH	SLP	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
138	KINDERGARTEN	<varies>	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	<varies>								
138B	KINDERGARTEN	K. STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
139	CORRIDOR	FLEX OFFICE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
140	CORRIDOR	COPY ROOM	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
141	CORRIDOR	1-2 STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
143	1ST GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
143A	1ST GRADE	1ST GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
143B			OHSD		10'-0"		8'-0"	1 3/4"											
144	1ST GRADE	1ST GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
144A	1ST GRADE	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
144B			OHSD		10'-0"		8'-0"	1 3/4"											
145	1ST GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
145A	1ST GRADE	1ST GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
145B			OHSD		10'-0"		8'-0"	1 3/4"											
146		1ST GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
146A	1ST GRADE	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
146B			OHSD		10'-0"		8'-0"	1 3/4"											
147	2ND GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
147A	2ND GRADE	2ND GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
147B			OHSD		10'-0"		8'-0"	1 3/4"											
148		2ND GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
148B			OHSD		10'-0"		8'-0"	1 3/4"											
149	2ND GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
149A	2ND GRADE	2ND GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
149B			OHSD		10'-0"		8'-0"	1 3/4"											
150		2ND GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
150A	TOILET	2ND GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
150B			OHSD		10'-0"		8'-0"	1 3/4"											
151	CORRIDOR	STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								

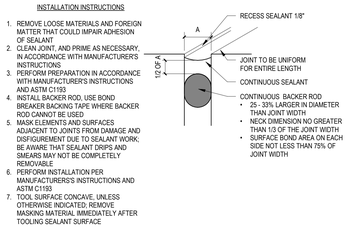
DOOR AND FRAME SCHEDULE

DOOR #	FROM ROOM	TO ROOM	DOOR TYPE	DOOR MATERIAL	DOOR OPENING G WIDTH	DOOR DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	FRAME TYPE	FRAME MATERIAL	FRAME DEPTH	FRAME HDWR	FIRE RATING (MINS)	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS JAMB	FRAME DETAILS SILL	SIGNAGE TYPE	REFERENCED NOTES
154	CORRIDOR	SENSORY	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
201	COMPUTER	EXISTING CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
201.2	EXISTING CORRIDOR	STORAGE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 5/8"								
201A	EXISTING CORRIDOR	COPY ROOM	FG	AL	3'-0"	3'-0"	7'-2"	1 3/4"	-	-									
201B	EXISTING CORRIDOR	MULTI-PURPOSE	FG	AL	3'-0"	3'-0"	7'-2"	1 3/4"	-	-									
202	MULTI-PURPOSE	EXISTING CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
203	EXISTING CORRIDOR	MECHANICAL	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 5/8"								
203A	PENTHOUSE	MECHANICAL	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
204	5TH GRADE	EXISTING CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
204A	EXISTING CORRIDOR	5TH GRADE			6'-10"	7'-0" / 7'-0"	7'-0"	1 3/4"											
204B	5TH GRADE	PASSAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
205A	PASSAGE	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
205B	PASSAGE	STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
206	5TH GRADE	EXISTING CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
206A	EXISTING CORRIDOR	5TH GRADE			6'-10"	7'-0" / 7'-0"	7'-0"	1 3/4"											
206B	5TH GRADE	PASSAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"								
207	EXISTING CORRIDOR	4TH GRADE STORAGE	FG	WD	2'-10"	2'-10"	7'-0"	1 3/4"	DF	HM	8 1/4"								
208	STAFF TOILET	EXISTING CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
208A	EXISTING CORRIDOR	CUSTODIAL	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
209	EXISTING CORRIDOR	STAFF TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
211	SPED RESOURCE	COLLAB - PORCH	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
212	COLLAB - PORCH	SPED RESOURCE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
213	CORRIDOR	SLP	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
214	5TH GRADE	EXISTING CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
214B	PASSAGE	5TH GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
215A	PASSAGE	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
215B	PASSAGE	STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
216	5TH GRADE	EXISTING CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
216A	EXISTING CORRIDOR	5TH GRADE			6'-10"	7'-0" / 7'-0"	7'-0"	1 3/4"											
216B	5TH GRADE	PASSAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
216D	EXISTING CORRIDOR	5TH GRADE			6'-10"	7'-0" / 7'-0"	7'-0"	1 3/4"											
217	CORRIDOR	INTERVENTION	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
219	EXISTING CORRIDOR	INTERVENTION	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
220	ART	EXISTING CORRIDOR	FG	AL	3'-0"	3'-0"	7'-2"	1 3/4"	-	-									
220A	CORRIDOR	TOILET	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
220B	ART	STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
221	EXISTING CORRIDOR	INSTRUCTIONAL COACH	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
222	CORRIDOR	3-4 GRADE STORAGE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
224	3RD GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
224A	3RD GRADE	3RD GRADE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
224B			OHSD		10'-0"		8'-0"	1 3/4"											
225		3RD GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
225A	3RD GRADE	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
225B			OHSD		10'-0"		8'-0"	1 3/4"											
226	3RD GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
226A	3RD GRADE	3RD GRADE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
226B			OHSD		10'-0"		8'-0"	1 3/4"											
227		3RD GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
227A	3RD GRADE	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
227B			OHSD		10'-0"		8'-0"	1 3/4"											
228	4TH GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
228A	4TH GRADE	4TH GRADE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
228B			OHSD		10'-0"		8'-0"	1 3/4"											
229		4TH GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
229A	4TH GRADE	TOILET	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
229B			OHSD		10'-0"		8'-0"	1 3/4"											
230	4TH GRADE		F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
230A	4TH GRADE	4TH GRADE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
230B			OHSD		10'-0"		8'-0"	1 3/4"											
231		4TH GRADE	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
231A	TOILET	4TH GRADE	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
231B			OHSD		10'-0"		8'-0"	1 3/4"											
232	MEDIA CENTER	CORRIDOR	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
232A	BOOK STORAGE	MEDIA CENTER	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
232B	COLLAB	MEDIA CENTER	F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	8 1/4"								
232C	OUTDOOR CLASS SPACE	CORRIDOR	FG	AL	3'-0"	3'-0"	7'-2"	1 3/4"	-	-									
235	PENTHOUSE		F	WD	3'-0"	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"								
235A		PENTHOUSE	F	HM	8'-0"	4'-0" / 4'-0"	8'-0"	1 3/4"	DF	HM	1'-0 7/8"								
236A	GENERATOR	MEZZANINE	F	WD	6'-0"	3'-0" / 3'-0"	7'-2"	1 3/4"	DF	HM	8 5/8"								
A100	CORRIDOR	CORRIDOR	F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	8 1/4"								
S100	STAIR		F	WD	3'-6"	3'-6"	7'-2"	1 3/4"	DF	HM	5 3/4"	45 MIN.							
S100A	CORRIDOR	STAIR	FG	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
S101	STAIRS		F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
S102	STAIRS		F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
S200	CORRIDOR	STAIR	F	WD	3'-6"	3'-6"	7'-2"	1 3/4"	DF	HM	8 5/8"	45 MIN.							
S200A	CORRIDOR	IDF	F	WD	3'-0"	3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								
S201	EXISTING CORRIDOR	STAIRS	F	WD	6'-0"	3'-0" / 3'-0"	7'-0"	1 3/4"	DF	HM	8 5/8"								

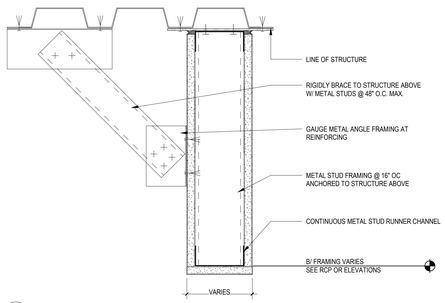
GENERAL NOTES

GENERAL:

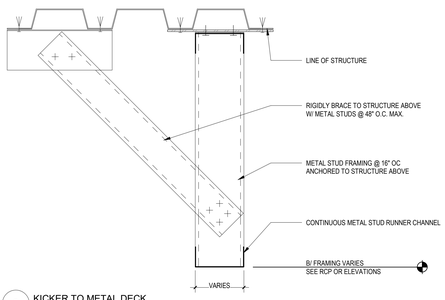
1. ALL DOOR AND FRAME TYPES ARE SHOWN AS EXTERIOR VIEW.
2. FRAME WIDTHS ARE INDICATED ON THE FLOOR PLANS. FRAME HEIGHTS ARE INDICATED ON THE FRAME TYPES. DOOR DIMENSIONS ARE INDICATED ON THE DOOR AND FRAME SCHEDULE.
3. DIMENSIONS ARE INDICATED FOR BIDDING PURPOSES ONLY AND SHALL BE FIELD VERIFIED PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION.
4. THE MANUFACTURER(S) SHALL BE RESPONSIBLE FOR THE ENGINEERING AND STRUCTURAL INTEGRITY OF THEIR FRAME SYSTEM(S).
5. ALL FRAMES IN MASONRY OPENINGS REQUIRE A LINTEL. REFER TO DOOR AND FRAME SCHEDULE AND/OR STRUCTURAL DRAWINGS.
6. ALL OPENINGS IN FRAMES REQUIRE GLAZING PANELS OR INFILL PANELS EXCEPT FOR DOOR



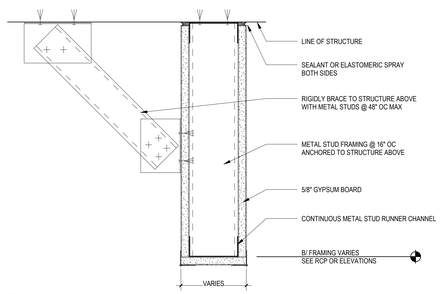
14 BACKER ROD & SEALANT DETAIL
12" = 1'-0"



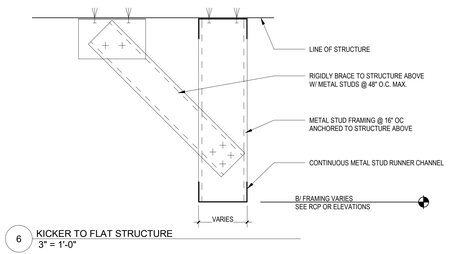
9 KICKER TO METAL DECK W/ GYP BD
3" = 1'-0"



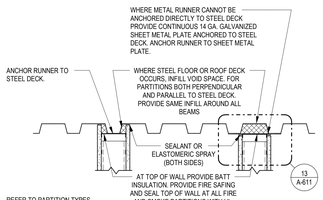
8 KICKER TO METAL DECK
3" = 1'-0"



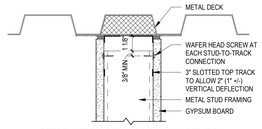
7 KICKER TO FLAT STRUCTURE W/ GYP BD
3" = 1'-0"



6 KICKER TO FLAT STRUCTURE
3" = 1'-0"

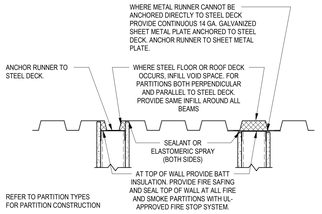


12 STUD TO STEEL SLOTTED TRACK DETAIL
1 1/2" = 1'-0"

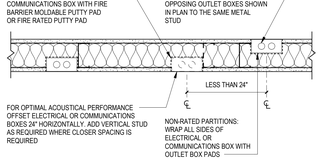


13 SLOTTED TRACK HEAD DETAIL
3" = 1'-0"

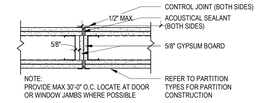
A-611



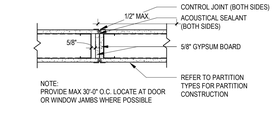
11 STUD TO STEEL DETAIL
1 1/2" = 1'-0"



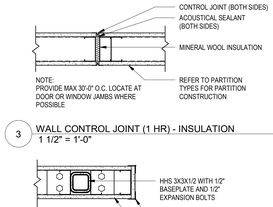
10 PLAN AT ALL ELECTRICAL OR COMMUNICATIONS BOXES
1 1/2" = 1'-0"



5 WALL CONTROL JOINT (2 HR RATING)
1 1/2" = 1'-0"

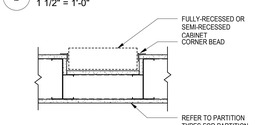


4 WALL CONTROL JOINT (1 HR RATING)
1 1/2" = 1'-0"

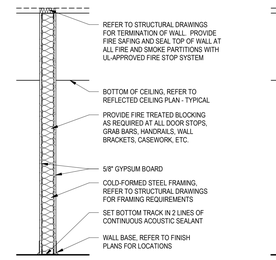


3 WALL CONTROL JOINT (1 HR) - INSULATION
1 1/2" = 1'-0"

2 PARTIAL HEIGHT PARTITION PLAN DETAIL
1 1/2" = 1'-0"

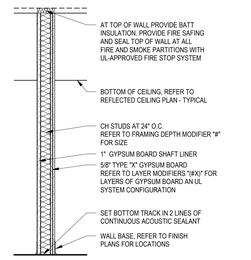


1 RECESSED POCKET
1 1/2" = 1'-0"



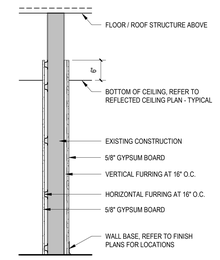
UL: U425 (1HR OR 2 HR) OR ARCHITECT APPROVED EQUAL. REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: SEE BELOW



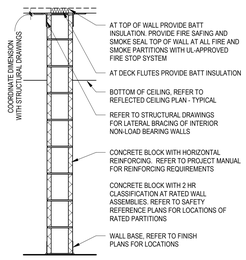
UL: U469 (1 HR) OR U438 (2 HR) OR ARCHITECT APPROVED EQUAL. REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: SEE BELOW



UL: N/A

STC: N/A



UL: U905 (2HR); U906 (2HR) 6" AND 8" CMU ONLY; U904 (3HR); U901 (4HR)

STC: SEE BELOW

COLD FORMED STRUCTURAL PARTITION

CF # X (#)
- DENOTES FRAMING DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

FRAMING DEPTH "#"
CF3 3 5/8" FRAMING DEPTH
CF6 6" FRAMING DEPTH

LETTER MODIFIERS " X"
CF # F FRAMING AND GYPSUM BOARD FULL HEIGHT TO STRUCTURE ABOVE (STC: 40)
CF # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD (STC: 49)
CF # R RATED PARTITION

LAYER MODIFIERS "(#)"
CF # X TWO (2) LAYERS OF GYPSUM BOARD, ONE ON EACH SIDE
CF # X (1) ONE (1) LAYER OF GYPSUM BOARD ON ONE (1) SIDE
CF # X (4) FOUR (4) LAYERS OF GYPSUM BOARD, TWO (2) ON EACH SIDE

NOTES
1. REFER TO STRUCTURAL DRAWINGS FOR FRAMING REQUIREMENTS

SHAFT WALL PARTITION

CH # X (#X)
- DENOTES FRAMING DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

FRAMING DEPTH "#"
CH 2 2 1/2" FRAMING DEPTH W/ 1" SHAFTWALL GYPSUM BOARD
CH 4 4" FRAMING DEPTH W/ 1" SHAFTWALL GYPSUM BOARD
CH 6 6" FRAMING DEPTH W/ 1" SHAFTWALL GYPSUM BOARD

LETTER MODIFIERS "X"
CH # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD (STC: 42 BASED ON 4"STUD) (STC: 50 BASED ON 4"STUD)

LAYER MODIFIERS "(#X)"
CH # X (1A) ONE (1) LAYER 5/8" GYP BD - 1 HR (UL U415 SYSTEM A)
CH # X (2B) TWO (2) LAYERS 5/8" GYP BD - 2 HR (UL U415 SYSTEM B)
CH # X (2C) TWO (2) LAYERS 5/8" GYP BD - 2 HR (UL U415 SYSTEM C)
CH # X (2D) TWO (2) LAYERS 5/8" GYP BD - 2 HR (UL U415 SYSTEM D)
CH # X (2E) TWO (2) LAYERS 5/8" GYP BD - 2 HR (UL U415 SYSTEM E)
CH # X (2F) TWO (2) LAYERS 5/8" GYP BD - 2 HR (UL U415 SYSTEM F)
CH # X (3G) THREE (3) LAYERS 5/8" GYP BD - 3 HR (UL U415 SYSTEM G)
CH # X (3H) THREE (3) LAYERS 5/8" GYP BD - 3 HR (UL U415 SYSTEM H)
CH # X (4I) FOUR (4) LAYERS 5/8" GYP BD - 4 HR (UL U415 SYSTEM I)

NOTES

FURRING PARTITION

F # X
- DENOTES FRAMING DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)

FRAMING DEPTH "#"
F 5 1/2" FURRING DEPTH
F 9 7/8" FURRING DEPTH
F 1 1" FURRING DEPTH
F 1.5 1 1/2" FURRING DEPTH
F 2 2" FURRING DEPTH

LETTER MODIFIERS "X"
F # Z Z-FURRING CHANNEL
F # H HAT FURRING CHANNEL
F # R RESILIENT CHANNEL

LAYER MODIFIERS "(#)"
N/A

NOTES
1. REFER TO FLOOR PLANS FOR BASE PARTITION ASSEMBLY.
2. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.

CMU PARTITION

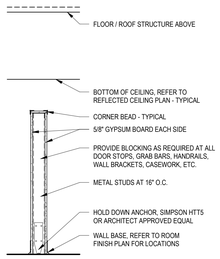
M # X (#)
- DENOTES CMU DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) FURRING OR VENEER APPLICATION

CMU DEPTH "#"
M 4 4" CMU (STC: 40)
M 6 6" CMU (STC: 42)
M 8 8" CMU (STC: 44)
M 10 10" CMU (STC: 46)
M 12 12" CMU (STC: 48)

LETTER MODIFIERS "X"
M # STANDARD CMU
M # G GROUND FACE
M # L SPLIT FACE
M # C FLUTED ACOUSTIC
M # F FLUTED
M # T GLAZED
M # S SMOKE RATED
M # R1 1-HOUR RATED PARTITION
M # R22-HOUR RATED PARTITION
M # R33-HOUR RATED PARTITION
M # R44-HOUR RATED PARTITION

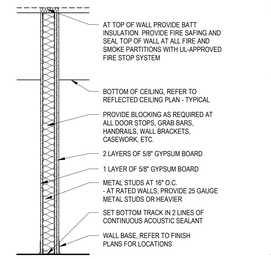
LAYER MODIFIERS "(#)"
REFER TO FURRING PARTITION
M # X (1) FURRING OR VENEER ON ONE (1) SIDE - REFER TO DRAWINGS
M # X (2) FURRING OR VENEER ON BOTH SIDES

NOTES
1. STC VARIES BASED ON DENSITY AND TYPE OF CMU, AND TYPE OF FILL WHERE REQUIRED.
2. REFER TO STRUCTURAL DRAWINGS FOR TOP OF WALL CONDITION AT LOAD BEARING CMU PARTITIONS.



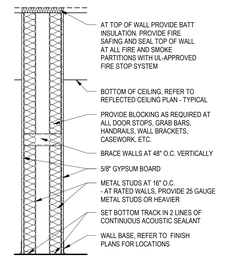
UL: N/A

STC: N/A



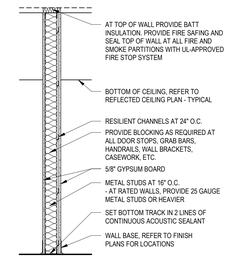
UL: U419 (1HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: 44 BASED ON 3-5/8" STUD



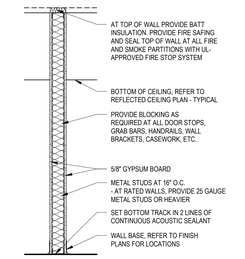
UL: U420 OR U493 (1 OR 2 HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: 56



UL: U419 (1HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: 54 BASED ON 3-5/8" STUD AND 3 LAYERS OF GYPSUM BOARD



UL: U419 (1HR OR 2HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: S3F: 40, S3FA: 49, S3F(3): _, S3FA(3): _, S3F(4): 48, S3FA(4): 56

STUD PARTITION

SP #
- DENOTES FRAMING DEPTH

FRAMING DEPTH "#"
S 3 3 5/8" STUD DEPTH
S 6 6" STUD DEPTH

LETTER MODIFIERS "X"
N/A

LAYER MODIFIERS "(#)"
N/A

NOTES
1. REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR PARTITION HEIGHT.
2. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.

STUD PARTITION

SC # X (#)
- DENOTES FRAMING DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

FRAMING DEPTH "#"
SC 3 3 5/8" STUD DEPTH
SC 6 6" STUD DEPTH

LETTER MODIFIERS "X"
SC # F FRAMING AND GYPSUM BOARD FULL HEIGHT TO STRUCTURE ABOVE
SC # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD
SC # R RATED PARTITION

LAYER MODIFIERS "(#)"
SC # X TWO (2) LAYERS OF GYPSUM BOARD ONE (1) ON EACH SIDE.
SC # X (3) THREE (3) LAYERS OF GYPSUM BOARD, ONE (1) ON ONE SIDE, TWO (2) ON THE OTHER SIDE - REFER TO DRAWINGS

NOTES
1. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.

STUD PARTITION

SD # X (#)
- DENOTES FRAMING DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

FRAMING DEPTH "#"
SD 1 1 5/8" STUD DEPTH (UL: U420 / 9-1/2" MAX. CLEAR CHASE)
SD 2 2 1/2" STUD DEPTH (UL: U493)
SD 3 3 5/8" STUD DEPTH (UL: U493)
SD 6 6" STUD DEPTH (UL: U493)

LETTER MODIFIERS "X"
SD # F FRAMING AND GYPSUM BOARD FULL HEIGHT TO STRUCTURE ABOVE
SD # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD (STC: 56)
SD # R RATED PARTITION - REFER TO UL LISTED ABOVE

LAYER MODIFIERS "(#)"
SD # X TWO (2) LAYERS OF GYPSUM BOARD, ONE (1) ON EACH SIDE (1HR)
SD # X (4) FOUR (4) LAYERS OF GYPSUM BOARD, TWO (2) ON EACH SIDE (2HR)

NOTES
1. REFER TO FLOOR PLANS FOR WALL THICKNESS.
2. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.

STUD PARTITION

SR # X (#)
- DENOTES FRAMING DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

FRAMING DEPTH "#"
SR 3 3 5/8" STUD DEPTH
SR 6 6" STUD DEPTH

LETTER MODIFIERS "X"
SR # F FRAMING AND GYPSUM BOARD FULL HEIGHT TO STRUCTURE ABOVE
SR # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD
SR # R RATED PARTITION

LAYER MODIFIERS "(#)"
SR # X TWO (2) LAYERS OF GYPSUM BOARD ONE (1) ON EACH SIDE.
SR # X (3) THREE (3) LAYERS OF GYPSUM BOARD, ONE (1) ON ONE SIDE, TWO (2) ON THE OTHER SIDE - REFER TO DRAWINGS. (STC: 54)

NOTES:
1. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.

STUD PARTITION

S # X (#)
- DENOTES FRAMING DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

FRAMING DEPTH "#"
S 1 1 5/8" STUD DEPTH
S 2 2 1/2" STUD DEPTH
S 3 3 5/8" STUD DEPTH
S 6 6" STUD DEPTH
S 9 9-1/4" STUD DEPTH

LETTER MODIFIERS "X"
S # FRAMING FULL HEIGHT TO STRUCTURE ABOVE AND GYPSUM BOARD TO 8" ABOVE CEILING
S # F FRAMING AND GYPSUM BOARD FULL HEIGHT TO STRUCTURE ABOVE (STC: 40-48)
S # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD (STC: 49-56)
S # R RATED PARTITION

LAYER MODIFIERS "(#)"
S # X TWO (2) LAYERS OF GYPSUM BOARD, ONE (1) ON EACH SIDE (1HR)
S # X (1) ONE (1) LAYER OF GYPSUM BOARD, REFER TO DRAWINGS.
S # X (3) THREE (3) LAYERS OF GYPSUM BOARD, ONE (1) ON ONE SIDE, TWO (2) ON THE OTHER SIDE - REFER TO DRAWINGS. (STC: 54)
S # X (4) FOUR (4) LAYERS OF GYPSUM BOARD, TWO (2) ON EACH SIDE (2HR) (STC: 48, OR 56)

NOTES
1. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.

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Davenport, IA 52803
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SIGNATURE

DATE

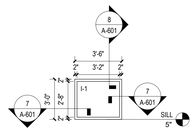
REVISIONS

NO.	DESCRIPTION	DATE

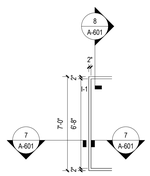
PROJECT NUMBER 224150.00
DATE OF ISSUE 10.23.2025
DRAWN BY BE
REVIEWED BY ZC

PARTITION TYPES & DETAILS

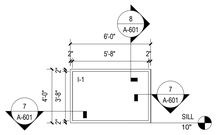
A-611
BIDDING



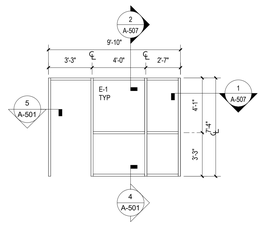
27 INTERIOR HOLLOW METAL GLAZING ELEVATION
1/4" = 1'-0" A-102B



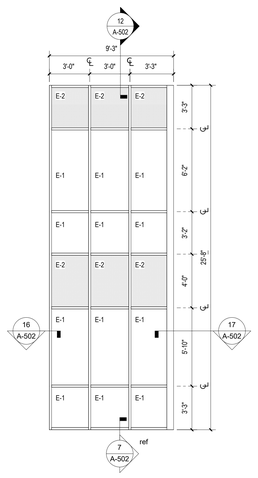
22 INTERIOR HOLLOW METAL GLAZING ELEVATION
1/4" = 1'-0" A-102C



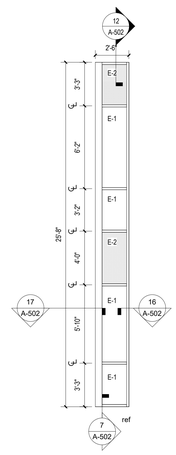
26 HOLLOW METAL GLAZING ELEVATION
1/4" = 1'-0" A-102B



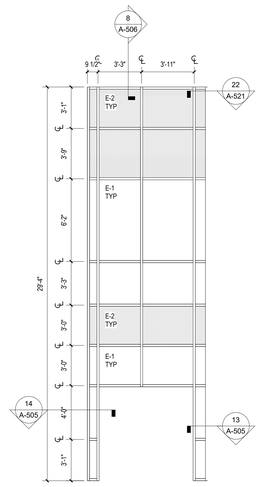
21 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-102A



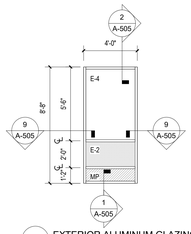
18 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



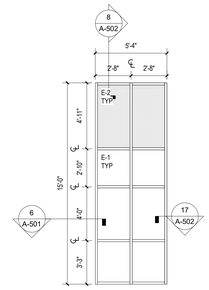
13 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



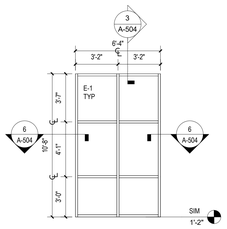
9 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



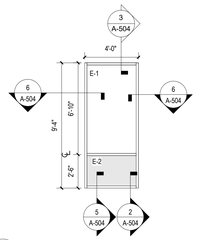
5 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101C



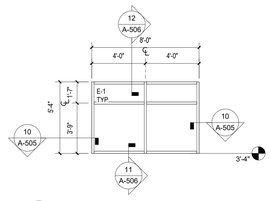
4 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



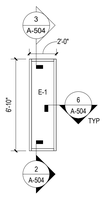
25 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-102B



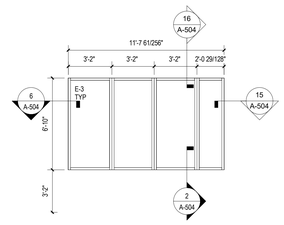
20 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



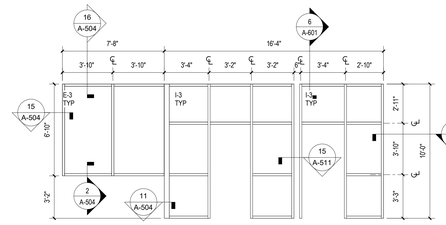
17 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101C



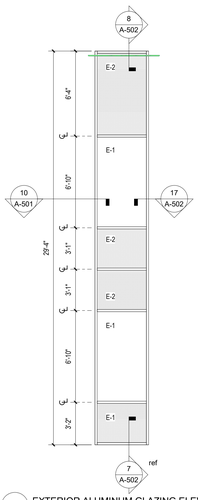
12 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



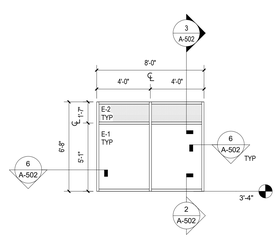
8 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



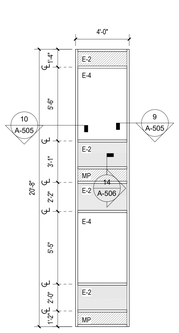
3 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



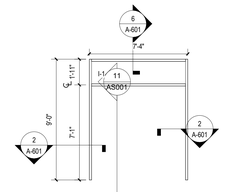
19 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



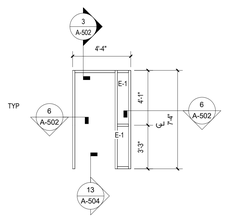
16 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



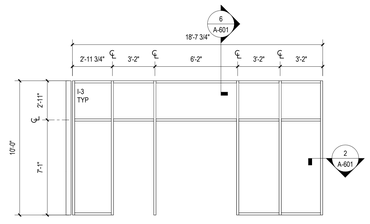
11 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101C



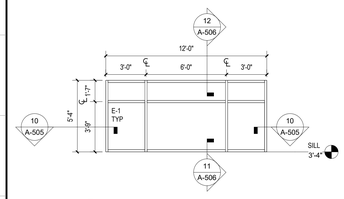
15 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



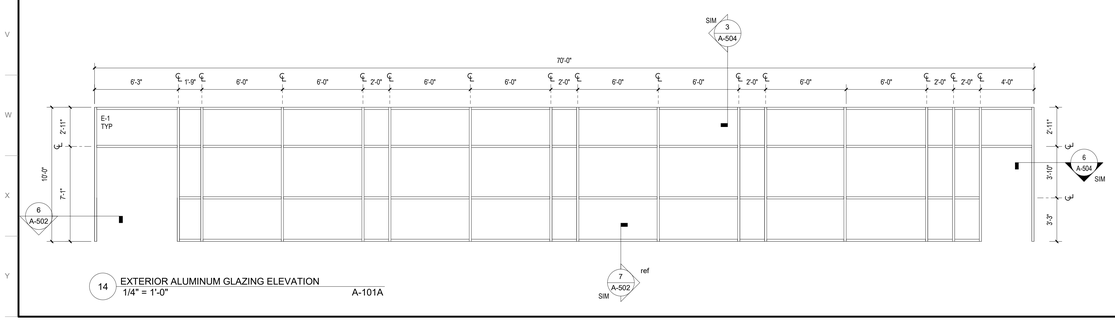
7 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



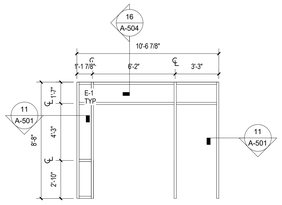
2 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



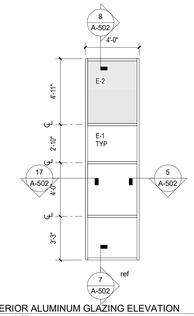
23 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-102C



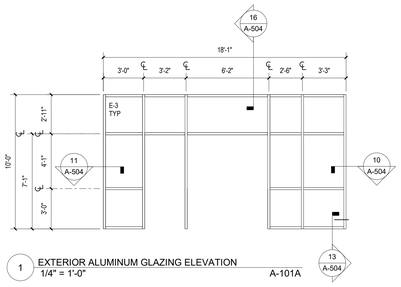
14 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



10 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101C



6 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



1 EXTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A

GLAZING TYPES

EXTERIOR:

E-1	1" INSULATED CLEAR GLAZING UNIT
E-2	1" SPANDREL GLAZING UNIT
E-3	1" INSULATED CLEAR GLAZING UNIT WITH SECURITY FILM
E-4	1" INSULATED CLEAR GLAZING UNIT WITH SOLAR FILM
MP	METAL PANEL IN-FILL UNIT

INTERIOR:

I-1	TEMPERED GLAZING UNIT
I-2	FIRE RATED GLAZING UNIT
I-3	TEMPERED GLAZING UNIT WITH SECURITY FILM

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
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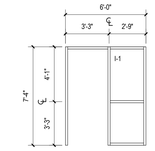
REVIEWED BY	ZC

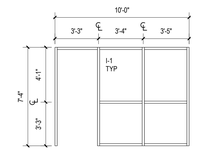
GLAZING ELEVATIONS

A-621

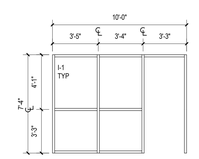
BIDDING



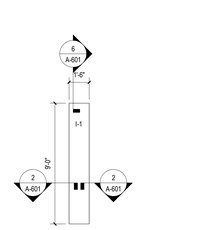
12 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-102C



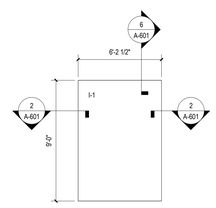
11 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-102C



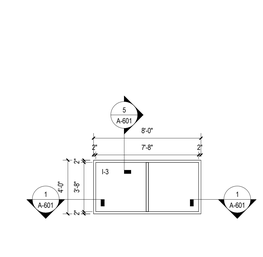
10 INTERIOR ALUMINUM GLAZING ELEVAITON
1/4" = 1'-0" A-102C



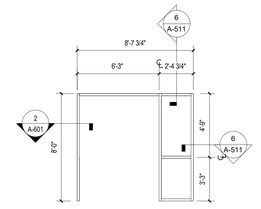
9 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



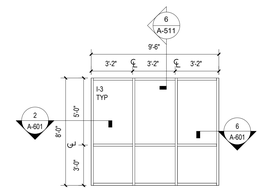
8 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B



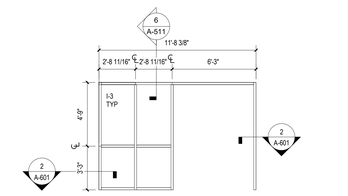
7 INTERIOR HOLLOW METAL GLAZING ELEVATION
1/4" = 1'-0" A-101A



6 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



5 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



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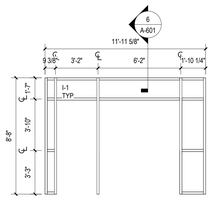
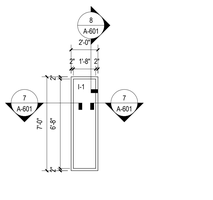
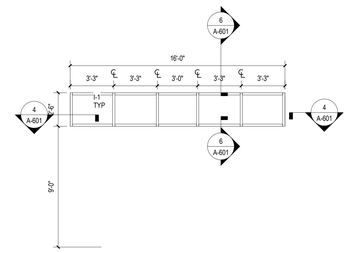
1/4" = 1'-0" A-101A



3 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101C



2 INTERIOR HOLLOW METAL GLAZING ELEVATION
1/4" = 1'-0" A-101B



1 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-102B

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SIGNATURE

DATE

REVISIONS

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REVIEWED BY	ZC

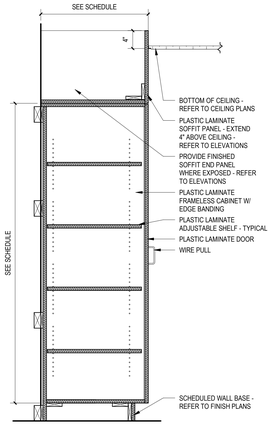
GLAZING ELEVATIONS

A-622

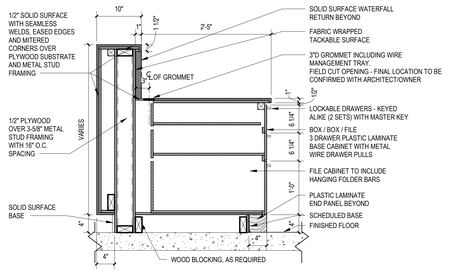
BIDDING

CASEWORK SCHEDULE

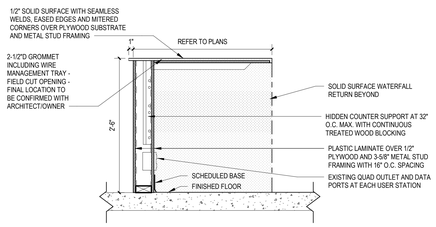
TYPE	DESCRIPTION	CONSTRUCTION	HEIGHT (INCHES)	WIDTH (INCHES)	DEPTH (INCHES)	EXTERIOR FINISH	INTERIOR FINISH	COMMENTS
CB1	OPEN CUBBY SHELVING -(2) DOUBLE COATS HOOKS ABOVE							
M3	PLASTIC LAMINATE (3) TIER MICROWAVE SHELVING							
MLB	PLASTIC LAMINATE MAILBOX WITH BACK - MIN. 18 COMPARTMENTS - REFER TO ELEVATION FOR CONFIGURATION. OPEN COMPARTMENTS TO BE NOT LESS THAN 1"W X 2"H. VERTICAL LABEL HOLDERS TO BE PROVIDED							
BASE CABINET								
B9	OPEN SHELVING	N/A	32.5	36	24	PL-1	MELAMINE	
OB1	OPEN SHELVING	N/A	28.5	36	24	PLAM-V	MELAMINE	
OB2	OPEN SHELVING	N/A	28.5	42	24	PLAM-V	MELAMINE	
OB3	OPEN SHELVING	N/A	28.5	34	24	PLAM-V	MELAMINE	
OB4	OPEN SHELVING	N/A	28.5	30	24	PLAM-V	MELAMINE	
OB5	OPEN SHELVING	N/A	28.5	40	24	PLAM-V	MELAMINE	
OB6	OPEN SHELVING	N/A	28.5	20	24	PL-1	MELAMINE	
BASE CABINETS								
	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	
ADA-S	ADA SINK PANELS		34		<varies>	25	PLAM-V	
B1	1 DRAWER, 1 DOOR	FULL OVERLAY	32.5	18	24	PLAM-V	MELAMINE	
B4	1 DOUBLE DOOR, 1 DOUBLE DRAWER	FULL OVERLAY	32.5	30	24	PLAM-V	MELAMINE	
B6	1 DRAWER, 1 DOOR	FULL OVERLAY	32.5	24	24	PLAM-V	MELAMINE	
B7	1 DRAWER, 1 DOOR	FULL OVERLAY	32.5	18	28	PLAM-V	MELAMINE	
B18	1 DRAWER, 1 DOOR	FULL OVERLAY	28.5	18	24	PLAM-V	MELAMINE	
B18D4	4 DRAWERS	FULL OVERLAY	32.5	18	24	PLAM-V	MELAMINE	
B24	1 DOUBLE DOOR	FULL OVERLAY	28.5	24	24	PLAM-V	MELAMINE	
B30-G	1 DOUBLE DOOR , NO SHELVES, WITH INTEGRAL RECESSED BASE RETURN.	FULL OVERLAY	32.5	30	24	PLAM-V	MELAMINE	
B36D	1 DOUBLE DOOR, 1 DOUBLE DRAWER	FULL OVERLAY	32.5	36	24	PLAM-V	MELAMINE	
B42	1 DOUBLE DOOR	FULL OVERLAY	28.5	42	24	PLAM-V	MELAMINE	
B42D	1 DOUBLE DOOR, 1 DOUBLE DRAWER	FULL OVERLAY	32.5	42	24	PLAM-V	MELAMINE	
B3030	1 DOUBLE DOOR	FULL OVERLAY	28.5	30	24	PLAM-V	MELAMINE	
B3034	1 DOUBLE DOOR	FULL OVERLAY	32.5	30	24	PLAM-V	MELAMINE	
B3630	1 DOUBLE DOOR	FULL OVERLAY	28.5	36	24	PLAM-V	MELAMINE	
B3634	1 DOUBLE DOOR	FULL OVERLAY	32.5	36	24	PLAM-V	MELAMINE	
B4234	1 DOUBLE DOOR	FULL OVERLAY	32.5	42	24	PLAM-V	MELAMINE	
B-S	DOUBLE DOOR, DOUBLE DRAWER FACE, SINK.	FULL OVERLAY	32.5	36	24	PLAM-V	MELAMINE	
BF	FILLER PANEL		<varies>	<varies>	24			
F	FILLER PANEL		<varies>	<varies>	24			
P1	4 DRAWER POSTER STORAGE	FULL OVERLAY	32.5	36	24	PLAM-V	MELAMINE	
TALL CABINETS								
	<varies>	FULL OVERLAY	<varies>	<varies>	<varies>	<varies>	MELAMINE	
T3	TALL WARDROBE CABINET WITH (4) ADJUSTABLE SHELVES AND (1) COAT ROD.	FULL OVERLAY	86	36	24	PLAM-V	MELAMINE	
T3496	TALL WARDROBE CABINET WITH (4) ADJUSTABLE SHELVES AND (1) COAT ROD.	FULL OVERLAY	96	34	24	PLAM-V	MELAMINE	
T3684	TALL WARDROBE CABINET WITH (4) ADJUSTABLE SHELVES AND (1) COAT ROD.	FULL OVERLAY	84	36	24	PLAM-V	MELAMINE	
T3696	TALL WARDROBE CABINET WITH (4) ADJUSTABLE SHELVES AND (1) COAT ROD.	FULL OVERLAY	96	36	24	PLAM-1	MELAMINE	
TS1	TALL WARDROBE CABINET WITH (4) ADJUSTABLE SHELVES AND (1) COAT ROD.	FULL OVERLAY	84	30	24	PLAM-V	MELAMINE	
TW1	TALL WARDROBE CABINET WITH (4) ADJUSTABLE SHELVES AND (1) COAT ROD.	FULL OVERLAY	84	30	24	PLAM-V	MELAMINE	
TW36	TALL WARDROBE CABINET WITH (4) ADJUSTABLE SHELVES AND (1) COAT ROD.	FULL OVERLAY	84	36	24	PLAM-V	MELAMINE	
UPPER CABINETS								
	<varies>	<varies>	<varies>	<varies>	12	<varies>	<varies>	
U6	1 DOUBLE DOOR	FULL OVERLAY	18	36	12	PLAM-V	MELAMINE	
U1230B	1 DOOR	FULL OVERLAY	30	12	12	PLAM-V	MELAMINE	
U1830	1 DOOR	FULL OVERLAY	30	18	12	PLAM-V	MELAMINE	
U2424	1 DOUBLE DOOR	FULL OVERLAY	24	24	12	PLAM-V	MELAMINE	
U2436	1 DOUBLE DOOR	FULL OVERLAY	36	24	12	PLAM-V	MELAMINE	
U2730	1 DOOR	FULL OVERLAY	30	27	12	PLAM-V	MELAMINE	
U3030	1 DOUBLE DOOR	FULL OVERLAY	30	30	15	PLAM-V	MELAMINE	
U3612	1 DOUBLE DOOR	FULL OVERLAY	12	36	12	PLAM-V	MELAMINE	
U3624	1 DOUBLE DOOR	FULL OVERLAY	24	36	12	PLAM-V	MELAMINE	
U3630	1 DOUBLE DOOR	FULL OVERLAY	30	36	12	PLAM-V	MELAMINE	
U3636	1 DOUBLE DOOR	FULL OVERLAY	36	36	12	PLAM-V	MELAMINE	
U4218	1 DOUBLE DOOR	FULL OVERLAY	18	42	12	PLAM-V	MELAMINE	
UF30	FILLER PANEL		30	<varies>	12			



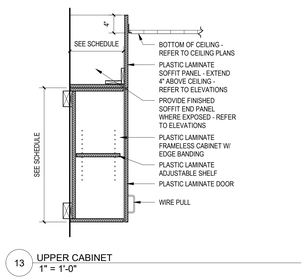
14 TALL CABINET
1" = 1'-0"



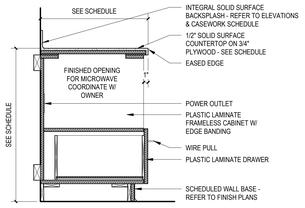
12 RECEPTION TRANSACTION WITH STORAGE
1" = 1'-0" A-512



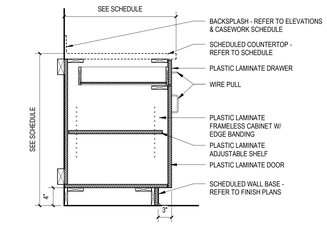
11 RECEPTION TRANSACTION
1" = 1'-0" A-512



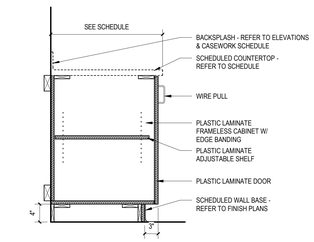
13 UPPER CABINET
1" = 1'-0"



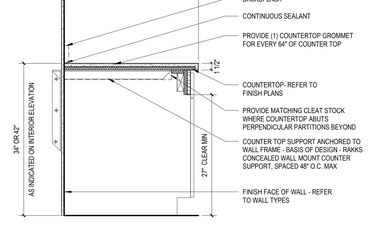
8 BASE CABINET - MICROWAVE & DRAWER
1" = 1'-0"



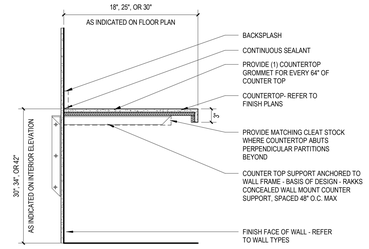
6 BASE CABINET - DOOR & DRAWER
1" = 1'-0"



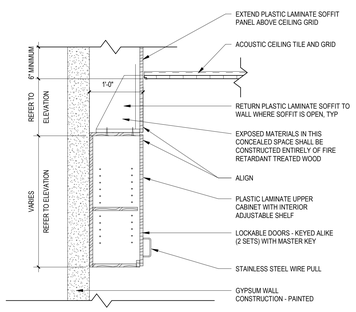
5 BASE CABINET - DOOR
1" = 1'-0" A-512



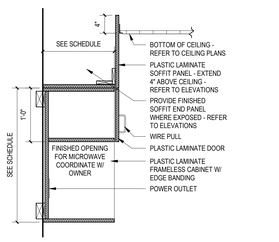
3 COUNTER SUPPORT WITH APRON
1" = 1'-0"



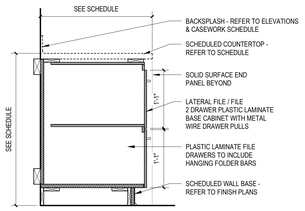
2 COUNTER SUPPORT
1" = 1'-0"



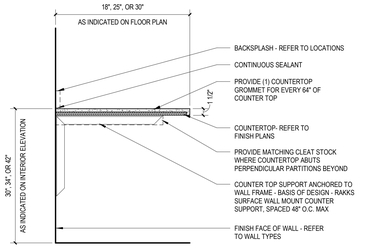
9 TYPICAL UPPER AND BASE CABINET
1" = 1'-0" A-412



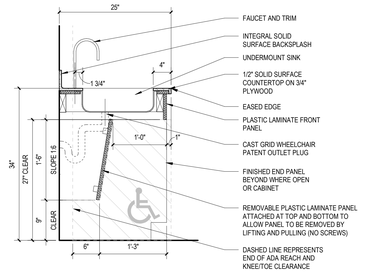
15 UPPER CABINET - MICROWAVE
1" = 1'-0"



7 BASE CABINET - FILE DRAWER
1" = 1'-0"



4 COUNTER SUPPORT
1" = 1'-0"



1 ADA SINK - UNDERMOUNT
1" = 1'-0"

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REVIEWED BY	ZC

CASEWORK DETAILS & SCHEDULE

A-631

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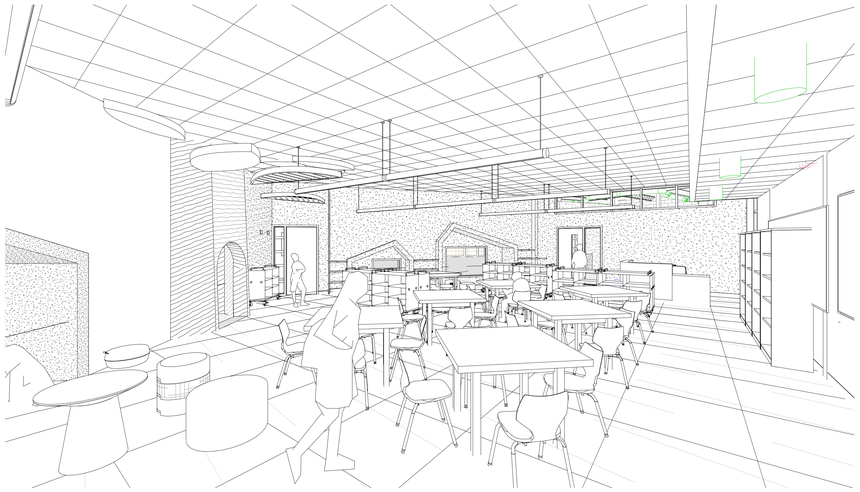


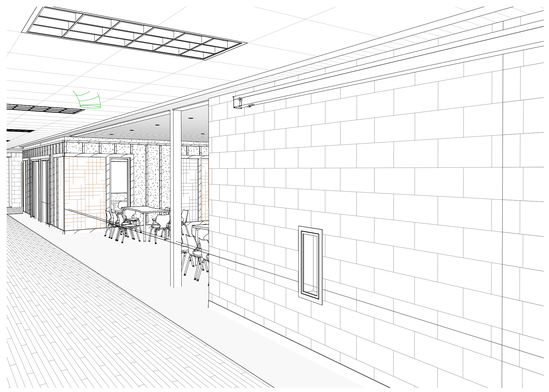
8 MEDIA CENTER



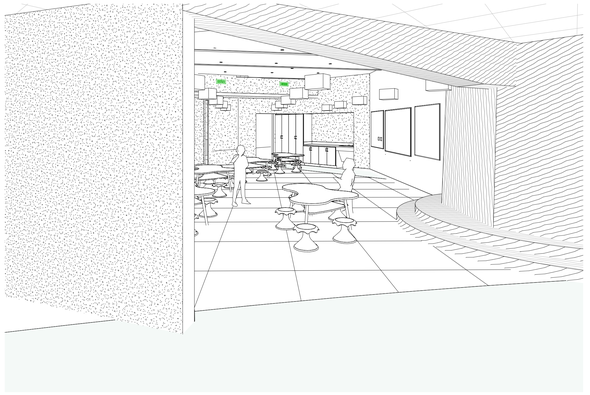
6 PORCH - 2ND FLOOR



3 LEARNING STAIR



5 PORCH - 2ND FLOOR



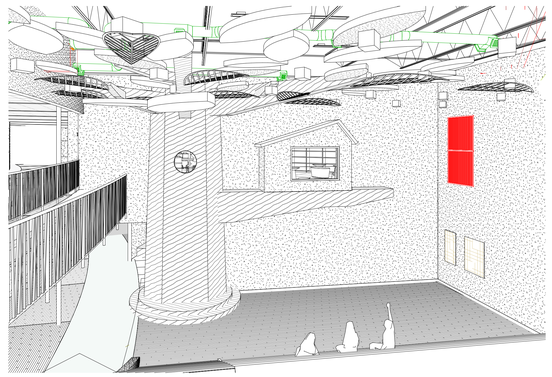
2 DISCOVERY SPACE



7 CORRIDIOR - CAFETERIA



4 PORCH - 1ST FLOOR



1 TREE

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PERSPECTIVE VIEWS

A-901

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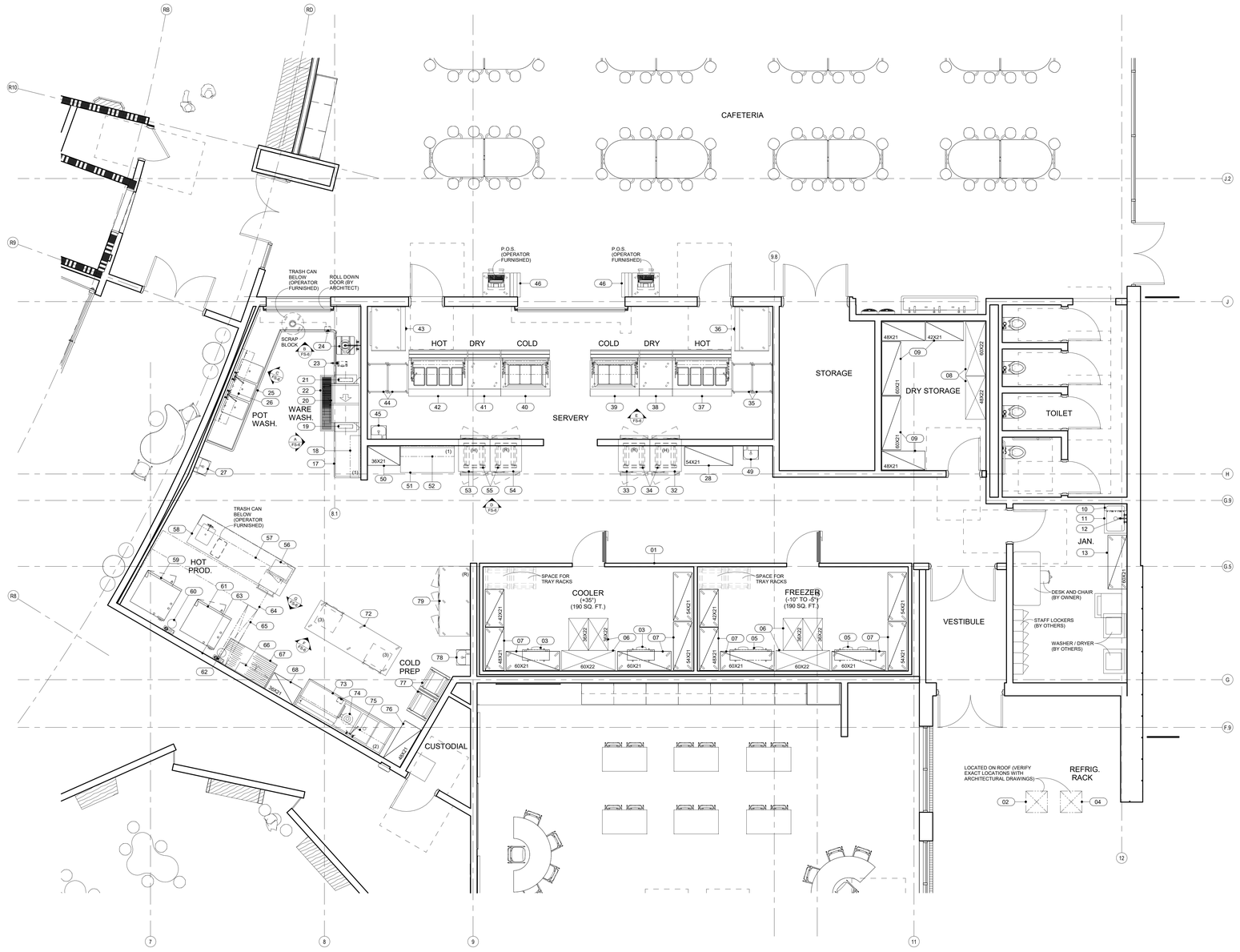

1 KITCHEN AND SERVERY EQUIPMENT PLAN

1/4" = 1'-0"

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL
01	1	WALK IN COOLER/ FREEZER ASSEMBLY	AMERICAN PANEL	CUSTOM
02	1	COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAP-A22Z-TFC-075
03	2	UNIT COOLER (COOLER)	AMERICAN PANEL	BEL0906BS6AM
04	1	FREEZER REMOTE COMPRESSOR	AMERICAN PANEL	FFAL-A30Z-TFC-075
05	2	UNIT COOLER (FREEZER)	AMERICAN PANEL	BEL0065BS6EE
06	6	DUNNAGE RACK	METRO	HP2236PD/ HP2260PD
07	12	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
08	2	RACK, DUNNAGE	METRO	HP2248PD/ HP2260PD
09	5	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
10	1	SHELF, WALL MOUNT	ADVANCE TABCO	K-245
11	1	SINK, MOP	ADVANCE TABCO	9-OP-28
12	1	FAUCET, WALL MOUNT	T&S BRASS	B-0665-BSTP
13	1	MOBILE CHEMICAL SHELVING	METRO	METROMAXQ
14	1	SPARE NUMBER		
15	1	SPARE NUMBER		
16	1	SPARE NUMBER		
17	1	CLEAN DISHTABLE	CUSTOM FABRICATED	CUSTOM
18	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM
19	1	VENT DUCT (UNLOAD)	CUSTOM FABRICATED	CUSTOM
20	1	DISHWASHER WITH BOOSTER HEATER	MEIKO	KA-44
21	1	VENT DUCT (LOAD)	CUSTOM FABRICATED	CUSTOM
22	1	FLOOR TROUGH AND GRATE	BSI	FT
23	1	HOSE REEL WITH SPRAY	FISHER	29841
24	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD
25	1	SOILED DISHTABLE W/ POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM
26	1	UTENSIL RACK WITH SHELF	CUSTOM FABRICATED	CUSTOM
27	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
28	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
29	1	SPARE NUMBER		
30	1	SPARE NUMBER		
31	1	SPARE NUMBER		
32	1	CABINET, HEATED, ROLL-THRU	CONTINENTAL REFRIGERATOR	DL1WI-SS-RT
33	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT
34	2	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
35	2	CART, DISH AND TRAY	PIPER PRODUCTS	721
36	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM487SSC
37	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD
38	1	MOBILE SERVING COUNTER	MOD-U-SERVE	MCT-FT2-MOD
39	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD
40	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD
41	1	MOBILE SERVING COUNTER	MOD-U-SERVE	MCT-FT2-MOD
42	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD
43	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM487SSC
44	2	CART, DISH AND TRAY	PIPER PRODUCTS	721
45	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
46	2	MOBILE CASHIER STATION	MOD-U-SERVE	MCT-CRSG-MOD
47	1	SPARE NUMBER		
48	1	SPARE NUMBER		
49	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
50	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
51	1	WORKTABLE	CUSTOM FABRICATED	CUSTOM
52	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM
53	1	CABINET, HEATED, ROLL-THRU	CONTINENTAL REFRIGERATOR	DL1WI-SS-RT
54	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT
55	2	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
56	1	OVEN, MICROWAVE	AMANA	RCS10TS
57	1	OVERSHELF, SINGLE WITH MICROWAVE SHELF	CUSTOM FABRICATED	CUSTOM
58	1	WORKTABLE WITH SINK AND DRAWER	CUSTOM FABRICATED	CUSTOM
59	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO
60	1	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP
61	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO
62	1	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP
63	1	STAINLESS STEEL WALL FLASHING	CUSTOM FABRICATED	CUSTOM
64	1	EXHAUST HOOD W/ MAKE-UP AIR (TYPE-1)	HALTON	KVE
65	1	FIRE SUPPRESSION SYSTEM	ANSUL/HALTON	R-102 WET
66	1	WALL CABINET	CUSTOM FABRICATED	CUSTOM
67	1	WORKTABLE WOOD TOP/ W SPLASH	CUSTOM FABRICATED	CUSTOM
68	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
69	1	SPARE NUMBER		
70	1	SPARE NUMBER		
71	1	SPARE NUMBER		
72	1	MOBILE ISLAND WORKTABLE W/ DRAWERS	CUSTOM FABRICATED	CUSTOM
73	1	SINK, PREP, TWO COMPARTMENTS	EAGLE GROUP	FNP2840-2-18L-4BTR
74	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD
75	2	WALL SHELF	CUSTOM FABRICATED	CUSTOM
76	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
77	2	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
78	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
79	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	D3RNSS

BIDDING 10-22-25

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.

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REVIEWED BY	EN

KITCHEN AND SERVERY EQUIPMENT PLAN

FS-1

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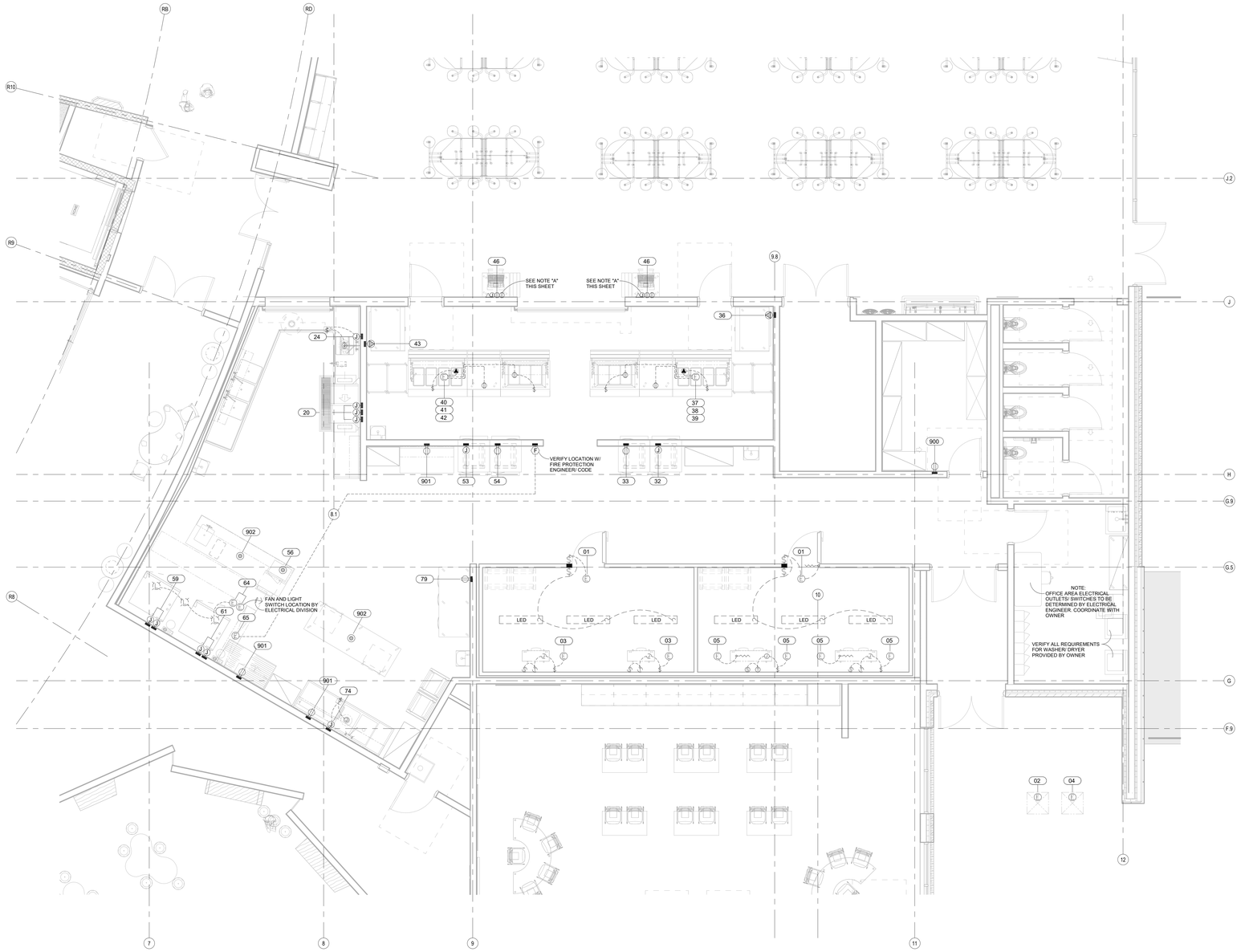


1 KITCHEN AND SERVERY ELECTRICAL PLAN

1/4" = 1'-0"

ELECTRICAL NOTES

1. ELECTRICAL PLAN SHOWS ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWINGS FOR CONSTRUCTION.
2. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 1 & 3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
3. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED. RECEPTACLES AND COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL DIVISION.
4. ALL CONDUIT RUNS INDICATED FOR REFRIGERATION, DRINK AND LIQUOR SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 24" (600MM) MINIMUM RADIUS BENDS.
5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL FOR FABRICATED COUNTERS AS NOTED COMPLETE WITH JUNCTION BOXES, CONDUIT, SURFACE MOUNTED ELECTRICAL BOXES, RECEPTACLES, COVER PLATES, ELECTRICAL RACEWAYS, CIRCUIT BREAKER PANEL AND WIRING. ELECTRICAL DIVISION TO MAKE FINAL CONNECTION.
6. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS, INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION.
7. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS AND TEMPERATURE MONITORING SYSTEM ETC., SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/ ARCHITECT AND AS REQUIRED BY CODE.
8. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH DISPOSER CONTROLS. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL CONDUIT, CONDUIT AND WIRE BETWEEN SWITCH, DISPOSER AND COMPONENTS.
9. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN MICRO-SWITCH AND SOLENOID FUEL SHUT OFF VALVE FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.
10. PRE-FABRICATED COLD STORAGE ROOMS ARE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS. ELECTRICAL DIVISION TO INSTALL SAME AND SHALL FINISH AND INSTALL INTERCONNECTING CONDUIT, WIRING SEALOFFS, SEALANT AND MAKE FINAL CONNECTIONS.
11. ELECTRICAL DIVISION SHALL FINISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN KITCHEN EQUIPMENT CONTRACTOR FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.
12. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL EMPTY CONDUIT WITH JUNCTION BOXES FOR INSTALLATION OF OWNER SUPPLIED I.T. EQUIPMENT INCLUDING POS/ ELECTRONIC CASH CONTROL SYSTEM. ELECTRICAL DIVISION TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
13. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL ELECTRICAL EQUIPMENT UNDER HOOD ACTIVATED BY FIRE SUPPRESSION SYSTEM.

ELECTRICAL SYMBOLS

- DUPLEX RECT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNTED
- SIMPLEX RECT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNTED
- SPECIAL PURPOSE OUTLET, VOLTAGE AS INDICATED, GROUND TYPE, HORIZONTAL MOUNTED
- JUNCTION BOX, HORIZONTAL MOUNTED
- ELECTRICAL CONDUIT, STUB AB INDICATED FOR DIRECT CONNECTION
- FLOOR/CEILING RECEPTACLE AS INDICATED
- SWITCH
- FIXTURE MOUNTED JUNCTION BOX
- FIXTURE MOUNTED RECEPTACLE
- FLUSH FLOOR BOX AS INDICATED (WATERPROOF)
- (2) DUPLEX RECT., 120-V, EMPTY JBOX WITH CONDUIT INTERCONNECTING P.O.E. PRE-CHECK & PRINTERS, ADD PHONE LINE
- FIXTURE MOUNTED ELECTRICAL PANEL
- INCANDESCENT LIGHT FIXTURE
- F — FLUORESCENT LIGHT FIXTURE
- FIELD WIRING RUNS
- FIRE SUPPRESSION MANUAL PULL STATION EMPTY JBOX WITH 15mm CONDUIT RUN IN WALL UP THRU CEILING TO ATTIC SPACE

NOTE

ALL WALL MOUNT ELECTRICAL RECEPTACLE AND J-BOXES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

NOTE: WALK-IN ELECTRICAL

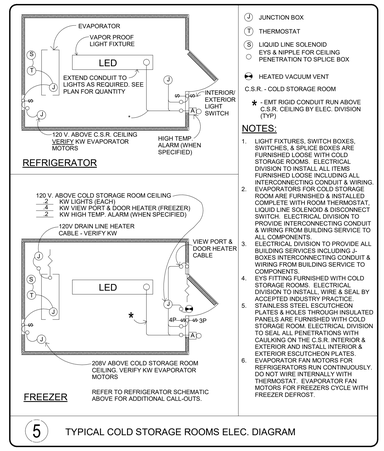
ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY TO THE POINT OF CONNECTION. UNDER NO CIRCUMSTANCES, WILL ELECTRICAL CONDUIT BE PERMITTED ON THE INTERIOR.

NOTE "A"

120V, 1 PHASE, SERVICE, 10.0 AMPS, STUB AS NOTED, FOR POS/PRE-CHECK SYSTEM STATIONS. (DEDICATED CIRCUIT, ISOLATED GROUND, ADD PHONE LINE. PROVIDE EMPTY J-BOX WITH CONDUIT FOR INTERCONNECTING POS SYSTEM, PRE-CHECK AND PRINTERS) (VERIFY ALL REQUIREMENTS WITH POS SYSTEM SUPPLIER.)

CONVENIENCE OUTLET REQUIREMENTS

ITEM	DESCRIPTION	VOLTS	PH	AMPS	KW	ELE TYPE	AFF	ELECTRICAL COMMENTS
900	CONVENIENCE RECEPTACLE	120	1	15.0	1.8	REC	18"	CONVENIENCE OUTLET STUB OUT WALL
901	CONVENIENCE RECEPTACLE	120	1	15.0	1.8	REC	48"	CONVENIENCE OUTLET STUB OUT WALL
902	CONVENIENCE RECEPTACLE	120	1	15.0	1.8	REC		STUB DOWN DROP CORD (BY ELECTRICAL DIVISION)



NOTES:

1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & SPLICE BOXES ARE FURNISHED LOOSE WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL ALL ITEMS FURNISHED LOOSE INCLUDING ALL INTERCONNECTING CONDUIT & WIRING.
2. EVAPORATORS FOR COLD STORAGE ROOM ARE FURNISHED & INSTALLED COMPLETE WITH ROOM THERMOSTAT, LIQUID LINE SOLENOID & DISCONNECT SWITCH. ELECTRICAL DIVISION TO PROVIDE INTERCONNECTING CONDUIT & WIRING FROM BUILDING SERVICE TO ALL COMPONENTS.
3. ELECTRICAL DIVISION TO PROVIDE ALL BUILDING SERVICES INCLUDING J-BOXES INTERCONNECTING CONDUIT & WIRING FROM BUILDING SERVICE TO COMPONENTS.
4. EYS FITTING FURNISHED WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL, WIRE & SEAL BY ACCEPTED INDUSTRY PRACTICE.
5. STAINLESS STEEL ESCUTCHEON PLATES & HOLES THROUGH INSULATED PANELS ARE FURNISHED WITH COLD STORAGE ROOM. ELECTRICAL DIVISION TO SEAL ALL PENETRATIONS WITH CAULKING ON THE C.S.R. INTERIOR & EXTERIOR AND INSTALL INTERIOR & EXTERIOR ESCUTCHEON PLATES.
6. EVAPORATOR FAN MOTORS FOR REFRIGERATORS RUN CONTINUOUSLY. DO NOT WIRE INTERNALLY WITH THERMOSTAT. EVAPORATOR FAN MOTORS FOR FREEZERS CYCLE WITH FREEZER DEFROST.

5 TYPICAL COLD STORAGE ROOMS ELEC. DIAGRAM

ELECTRICAL SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	PHASE	AMPS	KW	HP	ELEC TYPE	AFF	ELECTRICAL COMMENTS	ITEM
01	1	WALK IN COOLER/ FREEZER ASSEMBLY	AMERICAN PANEL	CUSTOM		1				DIR		(2 @ 120V AT 8.0 AMPS EA.) STUB DOWN. SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM	01
02	1	COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAP-A22Z-TFC-075		3	11.7			DIR		(208-230V) VERIFY LOCATION OF ROUGH-IN	02
03	2	UNIT COOLER (COOLER)	AMERICAN PANEL	BEL0060BS6AM		1	0.6			JBOX		(208-230V) STUB DOWN. SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM.	03
04	1	FREEZER REMOTE COMPRESSOR	AMERICAN PANEL	FFAL-A30Z-TFC-075		3	17.2			DIR		(208-230V) VERIFY LOCATION OF ROUGH-IN	04
05	2	UNIT COOLER (FREEZER)	AMERICAN PANEL	BEL0065BS6EE		1	1.5			JBOX		(208-230V) STUB DOWN. SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM. ADD ONE CONNECTION @ 120V FOR HEATER CABLE	05
20	1	DISHWASHER WITH BOOSTER HEATER	MEIKO	KA-44		3				JBOX		(1 @ 208V AT 57.3 AMPS & 80.0 AMPS FOR BREAKER FOR TERMINAL BLOCK #1) (TERMINAL BLOCK #2 NOT USED) (1 @ 208V AT 70.0 AMPS & 90.0 AMPS FOR BREAKER FOR TERMINAL BLOCK #3) (1 @ 208V AT 4.0 AMPS & 15.0 AMPS FOR BREAKER FOR TERMINAL BLOCK #4)	20
24	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD	208	1	12.1			JBOX	18"	INTER-CONNECT THRU CONTOLS (BY ELECTRICAL DIVISION)	24
32	1	CABINET, HEATED, ROLL-THRU	CONTINENTAL REFRIGERATOR	DL1WI-SS-RT		1	7.3			JBOX	90"	(208-230V)	32
33	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT	120	1	7.3			REC	90"		33
36	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM4878SC		1	20.0			REC	18"	(208-240V)	36
37	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD		1	25.1			REC		(120/208V) (120/208V AT 3 PHASE 25.1 AMPS) (50 AMP CIRCUIT) LOAD CENTER PROVIDE POWER FOR ITEMS # 37, 38 & 39 INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	37
38	1	MOBILE SERVING COUNTER	MOD-U-SERVE	MCT-FT2-MOD	120	1	12.0			REC		TO LOAD CENTER IN ITEM # 37	38
39	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD	120	1	3.8			REC		TO LOAD CENTER IN ITEM # 37, INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	39
40	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD	120	1	3.8			REC		TO LOAD CENTER IN ITEM # 42, INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	40
41	1	MOBILE SERVING COUNTER	MOD-U-SERVE	MCT-FT2-MOD	120	1	12.0			REC		TO LOAD CENTER IN ITEM # 42	41
42	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD		1	25.1			JBOX		(120/208V) (120/208V AT 3 PHASE 25.1 AMPS) (50 AMP CIRCUIT) LOAD CENTER PROVIDE POWER FOR ITEMS # 40, 41 & 42 INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	42
43	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM4878SC		1	20.0			REC	18"		43
46	2	MOBILE CASHIER STATION	MOD-U-SERVE	MCT-CRSG-MOD	120	1	7.3			REC	18"		46
53	1	CABINET, HEATED, ROLL-THRU	CONTINENTAL REFRIGERATOR	DL1WI-SS-RT		1	7.3			JBOX	90"	(208-230V)	53
54	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT	120	1	7.3			REC	90"		54
56	1	OVEN, MICROWAVE	AMANA	RCS10TS	120	1	13.0			REC		STUB DOWN, PROVIDE DROP-CORD WITH TWIST- LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)	56
59	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO		3				JBOX		(2 @ 208V AT 45.7 AMPS EA.) STUB OUT AT +18" AND +48" AFF	59
61	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO		3				JBOX		(2 @ 208V AT 45.7 AMPS EA.) STUB OUT AT +18" AND +48" AFF	61
64	1	EXHAUST HOOD W/ MAKE-UP AIR (TYPE-1)	HALTON	KVE		1				DIR		(2 @ 120V AT 15.0 AMPS EA.) STUB-DOWN; LIGHT & FAN SWITCH BY ELEC. DIV; AUTOSTART/STOP FAN INTERLOCK. SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION AND DETAILS.	64
65	1	FIRE SUPPRESSION SYSTEM	ANSUL/HALTON	R-102 WET	120	1	2.0			DIR		STUB DOWN, CONDUIT RUN ABOVE CEILING	65
74	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD	208	1	12.1			JBOX	18"	INTER-CONNECT THRU CONTOLS (BY ELECTRICAL DIVISION)	74
79	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	D3RNSS	120	1	9.2			REC	86"		79

BIDDING 10-22-25

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REVIEWED BY	EN

ELECTRICAL ROUGH-INS PLAN

FS-2

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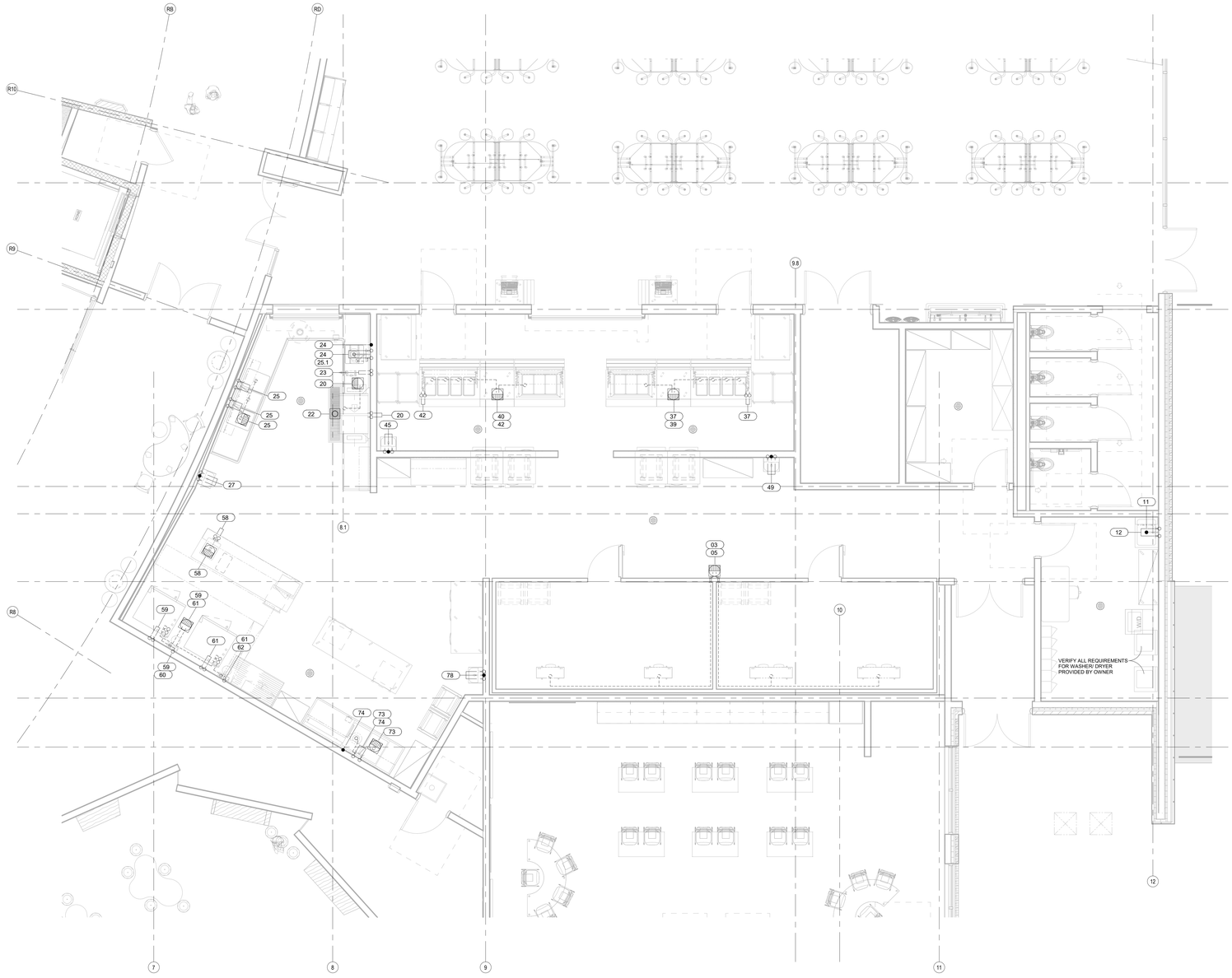


1 KITCHEN AND SERVERY PLUMBING PLAN

1/4" = 1'-0"

PLUMBING NOTES

1. PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
2. WATER PRESSURE IN FOOD AND BEVERAGE AREAS SHOULD BE 50 PSIG (345 KPa) MAXIMUM. WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG (172 KPa).
3. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES (SINGLE AND/OR DUAL CHECK VALVES) AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.
4. PLUMBING CONTRACTOR TO PROVIDE GAS SERVICES AT EQUIPMENT CONNECTIONS AS INDICATED ON PLUMBING. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS WITH VENT LIMITERS AS REQUIRED BY CODE AND A.G.A. FOR INSTALLATION BY PLUMBING DIVISION INLINE BETWEEN BUILDING SERVICES AND EQUIPMENT.
5. PLUMBING DIVISION TO SUPPLY GAS SHUT OFF VALVE AT EACH EQUIPMENT CONNECTION AND INSTALL WITHIN EQUIPMENT SPREADERS OR CHASES FOR EASY ACCESSIBILITY.
6. MECHANICAL ENGINEER TO SIZE GAS ROUGH-IN FOR RANGE BATTERIES. SCHEDULES SHOW LOADS ONLY FOR EACH PIECE NOT THE TOTAL. LOOP GAS SERVICES WHEN PRACTICAL.
7. PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
8. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL INDIRECT SINK AND VENTILATOR WASTE LINES TO FLOOR SINKS.
9. PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
10. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL FIRE PROTECTION SYSTEM (INCLUDING FURNISHING SOLENOID SHUTOFF VERIFY LOCATION WITH KEC.
11. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR OR PER LOCAL CODE WITH GRATE COVER AS INDICATED.
12. FLOOR DRAINS INDICATED ARE FOR FOOD AND BEVERAGE AREAS ONLY. ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ ARCHITECT.

NOTE

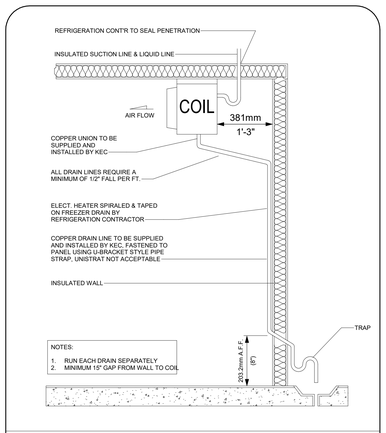
ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

PLUMBING SYMBOLS

- HW-HOT WATER, OR CW-COLD WATER
- EYE WASH
- WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
- INDIRECT WASTE
- FLOOR DRAIN
- FLOOR DRAIN WITH FUNNEL
- HUB DRAIN
- DRAIN IN FLOOR RECESS, CONNECT TO GENERAL CONTR. DRAIN PAN
- FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
- FLOOR SINK WITH FUNNEL GRATE
- GAS
- GAS PRESSURE REGULATOR/BY KEC
- STEAM SUPPLY
- CONDENSATE RETURN

NOTE

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.



3 CONDENSATE DRAIN (TYPICAL)

PLUMBING SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	HW SIZE	AFF	HW GPH	CW SIZE	AFF	WASTE TYPE	DIA	AFF	GAS MBTU	DIA	AFF	PLUMBING COMMENTS	ITEM
03	2	UNIT COOLER (COOLER)	AMERICAN PANEL	BEL0060BS6AM						FS	1"						03
05	2	UNIT COOLER (FREEZER)	AMERICAN PANEL	BEL0065BS6EE						FS	1"						05
11	1	SINK, MOP	ADVANCE TABCO	9-OP-28						DIR	2"	1"				TRAP BELOW FLOOR	11
12	1	FAUCET, WALL MOUNT	T&S BRASS	B-0665-BSTP	1/2"	36"	15	1/2"	36"								12
20	1	DISHWASHER WITH BOOSTER HEATER	MEIKO	KA-44	3/4"	12"	102	1/2"	12"	FS	2"					PROVIDE 110-140 DEGREE HOT WATER	20
22	1	FLOOR TROUGH AND GRATE	BSI	FT						HUB	3"					VERIFY DRAIN SIZE W/ ENGINEER, TRAP BELOW FLOOR	22
23	1	HOSE REEL WITH SPRAY	FISHER	29841	1/2"	12"	30	1/2"	12"								23
24	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD				1/2"		DIR	2"	10"				TEE-OFF C.W. FROM ITEM 25, SOILED DISHTABLE	24
25	1	SOILED DISHTABLE W/ POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM		12"	60		12"	FS						(2 @ 3/4" H. & C.W.) (3 @ 2" WASTE) MANIFOLD DRAIN LINES, PLUMB DRAINS PER LOCAL CODES	25
25.1	1				1/2"	12"	35	1/2"	12"							CONNECT H. & C.W. TO PRE-RINSE, TEE-OFF C.W. TO ITEM 24, DISPOSER	25.1
27	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87	1/2"	18"	5	1/2"	18"	DIR	1 1/2"	13"					27
33	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT												CONDENSATE EVAPORATOR	33
36	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM4878SC												CONDENSATE EVAPORATOR	36
37	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD	1/2"			1/2"		FS	1"					STUB UP, H. & C.W.	37
39	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD						FS	1"						39
40	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD						FS	1"						40
42	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD	1/2"			1/2"		FS	1"					STUB UP, H. & C.W.	42
43	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM4878SC												CONDENSATE EVAPORATOR	43
45	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87	1/2"	18"	5	1/2"	18"	DIR	1 1/2"	24"					45
49	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87	1/2"	18"	5	1/2"	18"	DIR	1 1/2"	24"					49
54	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT												CONDENSATE EVAPORATOR	54
58	1	WORKTABLE WITH SINK AND DRAWER	CUSTOM FABRICATED	CUSTOM	1/2"		10	1/2"		FS	1 1/2"					STUB UP H.W. & C.W.	58
59	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO						FS						(4 @ 3/4 C.W. RUN (2) C.W. FROM ITEM 60, WATER FILTER, 2 @ 1 1/2" WASTE, STUB OUT WATER CONNECTION AT +12" AND +46" AFF. PROVIDE QUICK DISCONNECT FOR WATER	59
60	1	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP				1/2"	72"							RUN C.W TO ITEM 59, COMBI OVEN	60
61	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO						FS						(4 @ 3/4 C.W. RUN (2) C.W. FROM ITEM 62, WATER FILTER, 2 @ 1 1/2" WASTE, STUB OUT WATER CONNECTION AT +12" AND +46" AFF. PROVIDE QUICK DISCONNECT FOR WATER	61
62	1	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP				1/2"	72"							RUN C.W TO ITEM 61, COMBI OVEN	62
73	1	SINK, PREP, TWO COMPARTMENTS	EAGLE GROUP	FNP2840-2-18L-s4BTR	1/2"	12"	20	1/2"	12"	FS	1 1/2"					TEE-OFF C.W. TO ITEM 74, DISPOSER	73
74	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD				1/2"		DIR	2"	10"				TEE-OFF C.W. FROM ITEM 73, PREP SINKS	74
78	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87	1/2"	18"	5	1/2"	18"	DIR	1 1/2"	24"					78
79	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	D3RNSS												CONDENSATE EVAPORATOR	79

BIDDING 10-22-25

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PLUMBING ROUGH-INS PLAN

FS-3
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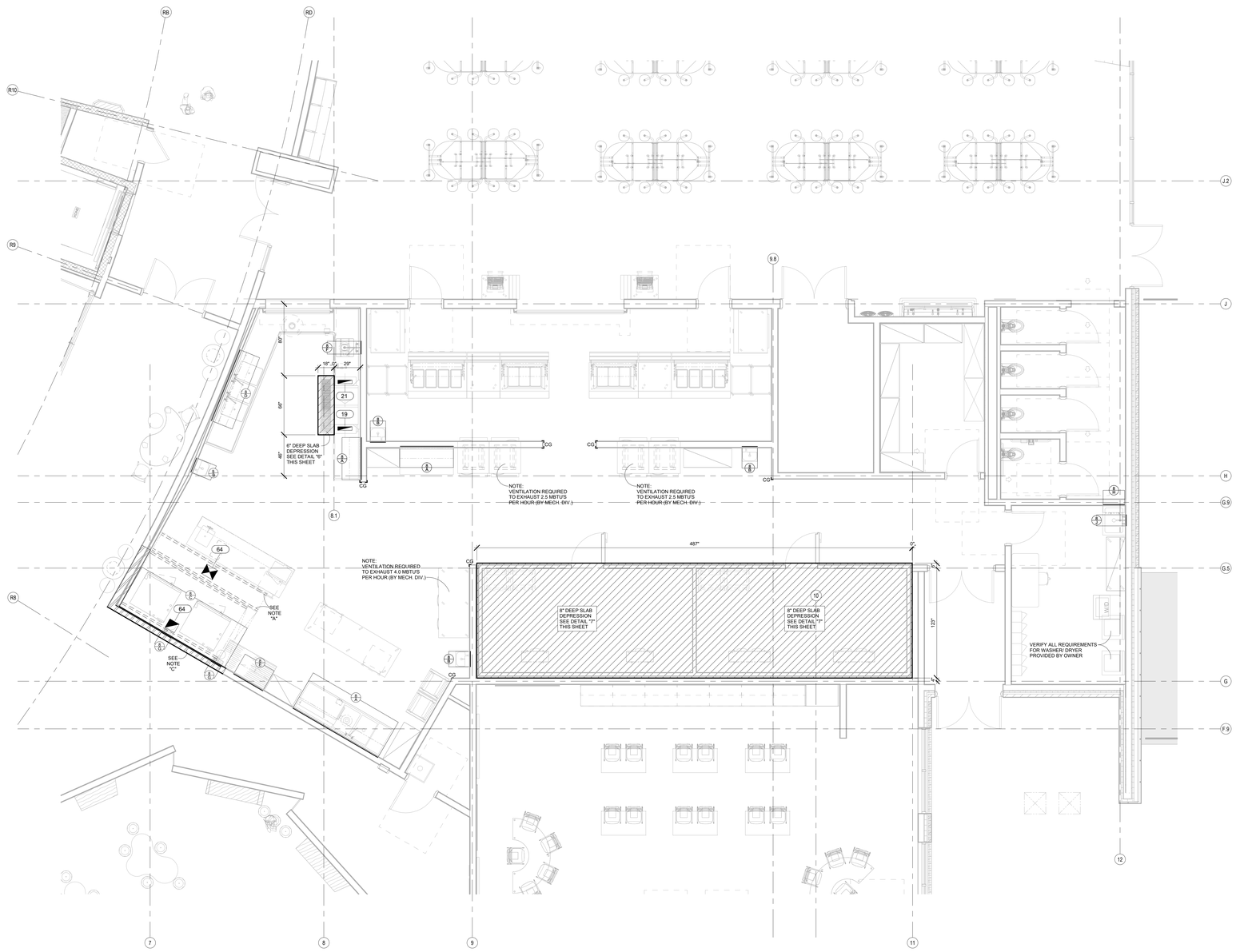


1 KITCHEN AND SERVERY BUILDING WORKS PLAN

1/4" = 1'-0"

VENTILATION SCHEDULE													
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	EXH. WIDTH	EXH. DEPTH	CFM	S.P.	SUP. WIDTH	SUP. DEPTH	CFM	S.P.	VENTILATION COMMENTS	ITEM
19	1	VENT DUCT (UNLOAD)	CUSTOM FABRICATED	CUSTOM	4"	16"	400							19
21	1	VENT DUCT (LOAD)	CUSTOM FABRICATED	CUSTOM	4"	16"	200							21
33	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT									VENTILATION REQUIRED TO EXHAUST 2.5 MBTU'S PER HOUR (BY MECHANICAL DIVISION)	33
54	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT									VENTILATION REQUIRED TO EXHAUST 2.5 MBTU'S PER HOUR (BY MECHANICAL DIVISION)	54
64	1	EXHAUST HOOD W/ MAKE-UP AIR (TYPE-1)	HALTON	KVE	12"	11"	1502	0.23	14"	12"	1201	0.05	SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION AND DETAILS	64
79	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	D3RNSS									VENTILATION REQUIRED TO EXHAUST 4.0 MBTU'S PER HOUR (BY MECHANICAL DIVISION)	79

VENTILATION SYMBOLS

- EXHAUST DUCT CONNECTION
- MAKE-UP AIR DUCT CONNECTION
- EXHAUST DUCT TO OUTSIDE
- CEILING EXHAUST GRILL
- CONDENSATE HOOD

NOTES

A. STRUCTURAL "Z" SUPPORT
(GENERAL CONTRACTOR TO FURNISH AND INSTALL 3"X3"X1/4" (75X75X6) Z-BAR TO UNDERSIDE OF STRUCTURAL SLAB ABOVE- COORDINATE INSTALLATION WITH KITCHEN EQUIPMENT CONTRACTOR)

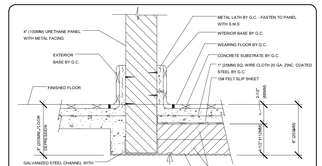
B. WALL BACKING

C. NON-COMBUSTIBLE WALL

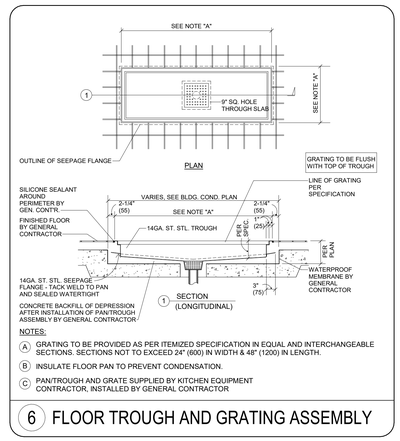
D. 6" (152MM) CONCRETE CURB

E. FLOOR DEPRESSION

CG. CORNER GUARD BY G.C.



7 COLD STORAGE ROOM - 8" (203MM) DEPRESSION



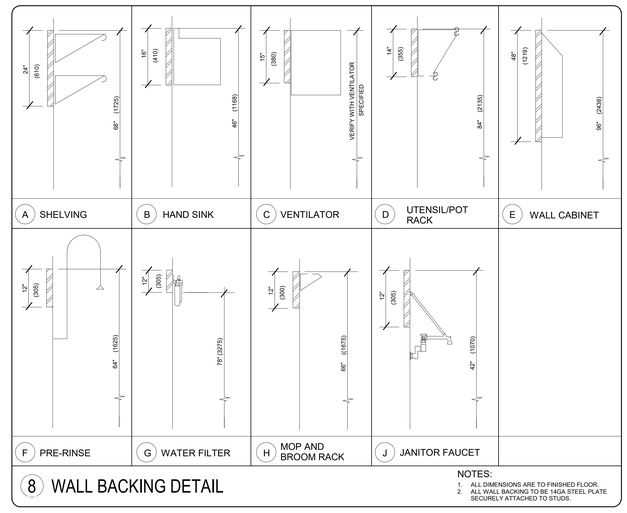
NOTES:

A. GRATING TO BE PROVIDED AS PER ITEMIZED SPECIFICATION IN EQUAL AND INTERCHANGEABLE SECTIONS. SECTIONS NOT TO EXCEED 24" (600) IN WIDTH & 48" (1200) IN LENGTH.

B. INSULATE FLOOR PAN TO PREVENT CONDENSATION.

C. PAN/TROUGH AND GRATE SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR

6 FLOOR TROUGH AND GRATING ASSEMBLY



8 WALL BACKING DETAIL

NOTES:
1. ALL DIMENSIONS ARE TO FINISHED FLOOR.
2. ALL WALL BACKING TO BE 14GA STEEL PLATE SECURELY ATTACHED TO STUDS.

BIDDING 10-22-25

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LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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Moline, IL 61265

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Legat Architects, Inc.
1515 5th Ave. Suite 108
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P: 309.517.5536
www.legat.com

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STRUCTURAL ENGINEER
IMEG
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Rock Island, IL 61201
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www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering Consultants
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Davenport, IA 52807
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REVISIONS

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PROJECT NUMBER	224150.00
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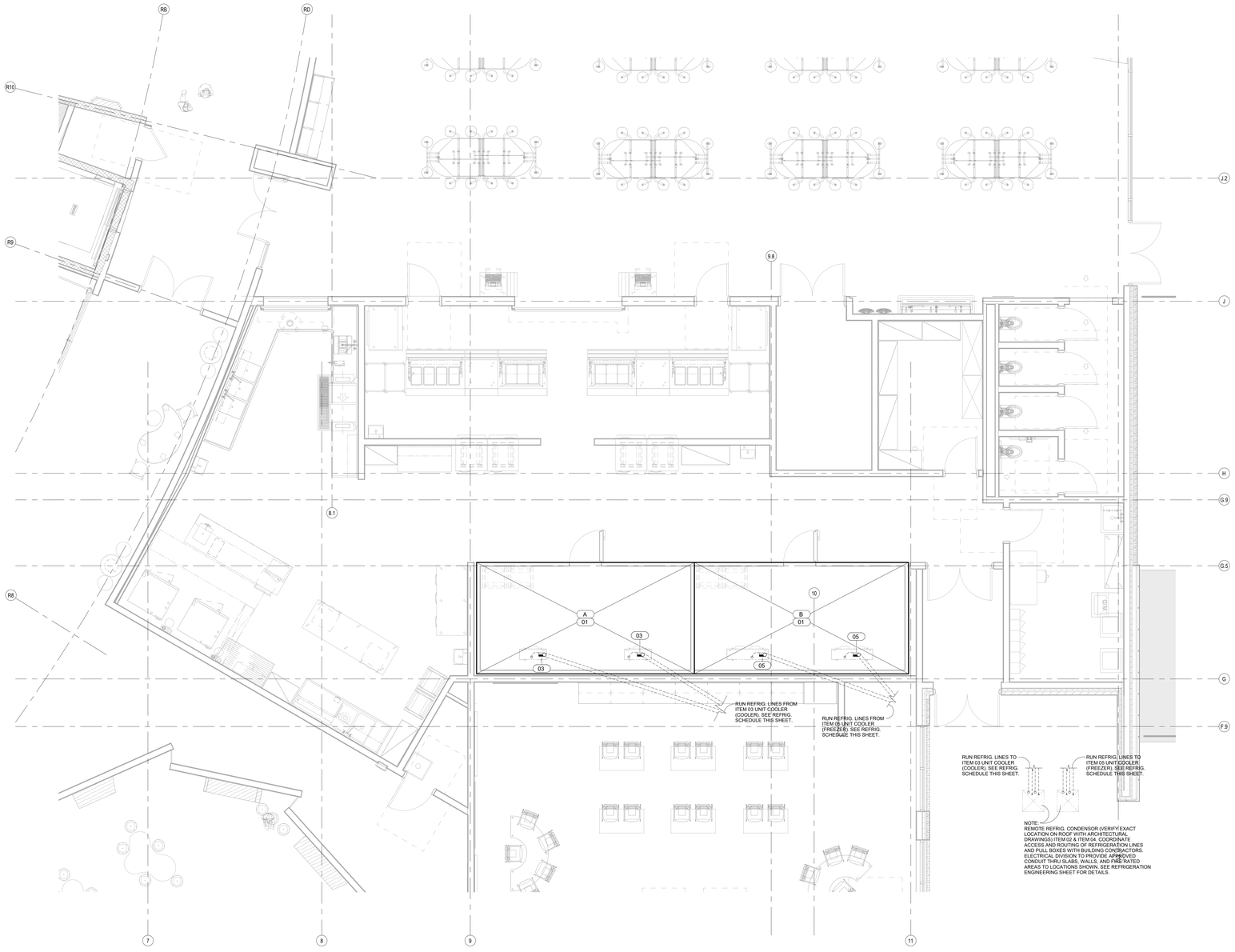
DRAWN BY	JA
REVIEWED BY	EN

BUILDING WORKS PLAN

FS-4

BIDDING



1 KITCHEN AND SERVERY REFRIGERATION PLAN

1/4" = 1'-0"

SYMBOLS

- CONDUIT LINE RUN
- REFRIGERATION STUB AS INDICATED
- REFRIGERATION LINE IN 6"X6" (152MMX152MM) PULL BOX
- REFRIGERATION LINES IN 12"X12" (305MMX305MM) PULL BOX
- CONDUIT STUB AS INDICATED
- REFRIGERATION LINE RUN THRU FIXTURE
- ITEM — REFRIGERATED BASE

REFRIGERATION SCHEDULE

03	(2) TWO REFRIGERATION LINES, RUN FROM ITEM 02 REMOTE REFRIG. RACK (VERIFY EXACT LOCATION ON ROOF) RUN FROM ABOVE AND STUB DOWN, CONNECT AT UNIT COOLER (COOLER) SYSTEM NO. "A". COOLER. VERIFY WITH REFRIGERATION ENGINEERING SCHEDULE.
05	(2) TWO REFRIGERATION LINES, RUN FROM ITEM 04 REMOTE REFRIG. RACK (VERIFY EXACT LOCATION ON ROOF) RUN FROM ABOVE AND STUB DOWN, CONNECT AT UNIT COOLER (FREEZER) SYSTEM NO. "B". FREEZER. VERIFY WITH REFRIGERATION ENGINEERING SCHEDULE.

NOTE

WHERE REFRIGERATION LINES PENETRATE PLENUMS & FIRE RATED AREAS, LINES ARE TO BE HOUSED IN CONDUIT OR INSULATED AS PER APPLICABLE CODES. CONDUIT BY ELECTRICAL DIVISION & INSULATION BY KITCHEN EQUIPMENT CONTRACTOR.

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REVIEWED BY	EN

REFRIG. ROUGH-INS PLAN

FS-5

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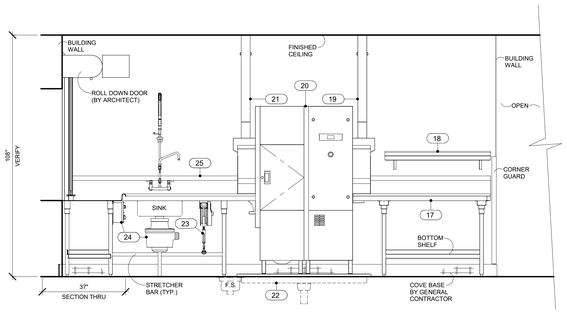
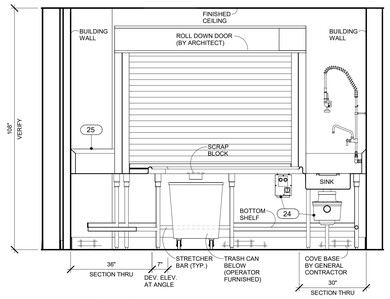
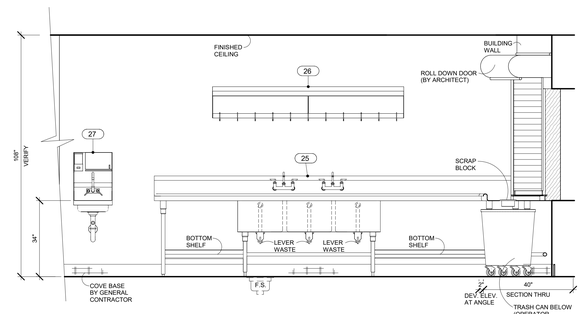


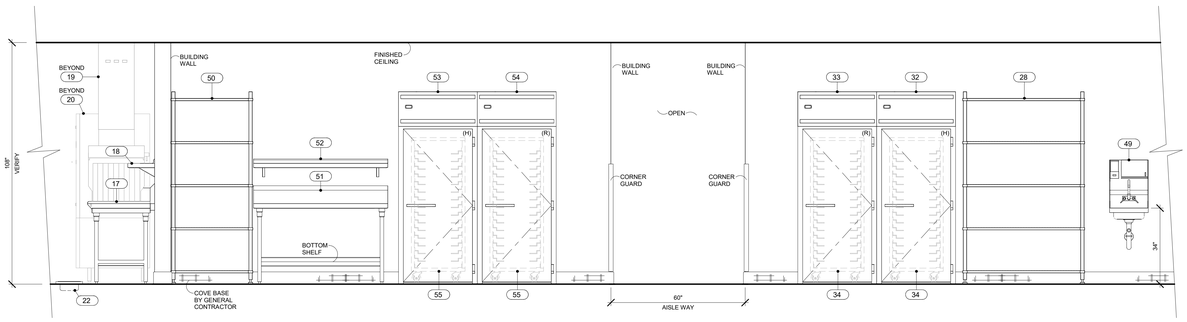
A ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



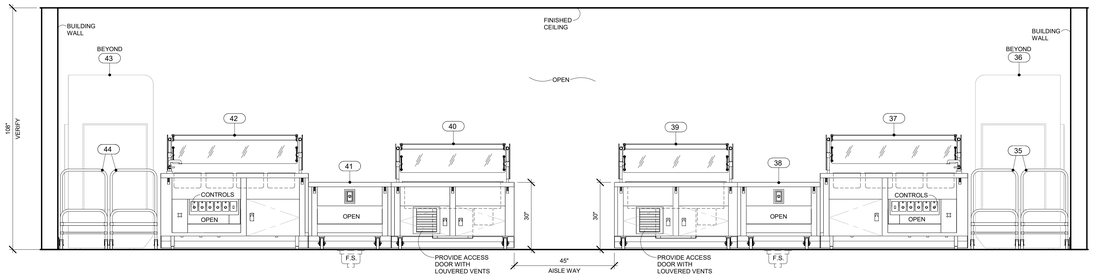
B ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



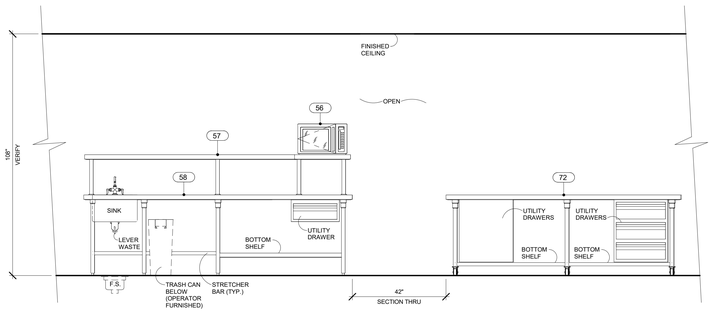
C ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



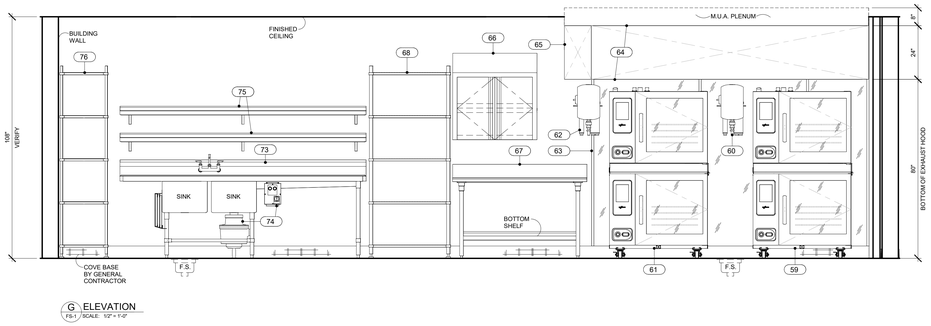
D ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



E ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



F ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



G ELEVATION
FS-1 SCALE: 1/2" = 1'-0"

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL
01	1	WALK IN COOLER/ FREEZER ASSEMBLY	AMERICAN PANEL	CUSTOM
02	1	COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAP-A22Z-TFC-075
03	2	UNIT COOLER (COOLER)	AMERICAN PANEL	BEL0060BS6AM
04	1	FREEZER REMOTE COMPRESSOR	AMERICAN PANEL	FFAL-A30Z-TFC-075
05	2	UNIT COOLER (FREEZER)	AMERICAN PANEL	BEL0065BS6EE
06	6	DUNNAGE RACK	METRO	HP2236PD/ HP2260PD
07	12	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
08	2	RACK, DUNNAGE	METRO	HP2248PD/ HP2260PD
09	5	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
10	1	SHELF, WALL MOUNT	ADVANCE TABCO	K-245
11	1	SINK, MOP	ADVANCE TABCO	9-OP-28
12	1	FAUCET, WALL MOUNT	T&S BRASS	B-0665-BSTP
13	1	MOBILE CHEMICAL SHELVING	METRO	METROMAXQ
14	1	SPARE NUMBER		
15	1	SPARE NUMBER		
16	1	SPARE NUMBER		
17	1	CLEAN DISHTABLE	CUSTOM FABRICATED	CUSTOM
18	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM
19	1	VENT DUCT (UNLOAD)	CUSTOM FABRICATED	CUSTOM
20	1	DISHWASHER WITH BOOSTER HEATER	MEIKO	KA-44
21	1	VENT DUCT (LOAD)	CUSTOM FABRICATED	CUSTOM
22	1	FLOOR TROUGH AND GRATE	BSI	FT
23	1	HOSE REEL WITH SPRAY	FISHER	29841
24	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD
25	1	SOILED DISHTABLE W/ POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM
26	1	UTENSIL RACK WITH SHELF	CUSTOM FABRICATED	CUSTOM
27	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
28	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
29	1	SPARE NUMBER		
30	1	SPARE NUMBER		
31	1	SPARE NUMBER		
32	1	CABINET, HEATED, ROLL-THRU	CONTINENTAL REFRIGERATOR	DL1WI-SS-RT
33	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT
34	2	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
35	2	CART, DISH AND TRAY	PIPER PRODUCTS	721
36	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM4878SC
37	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD
38	1	MOBILE SERVING COUNTER	MOD-U-SERVE	MCT-FT2-MOD
39	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD
40	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	MOD-U-SERVE	MCT-FT3-MOD
41	1	MOBILE SERVING COUNTER	MOD-U-SERVE	MCT-FT2-MOD
42	1	HOT SERVING COUNTER W/ FOOD SHIELD	MOD-U-SERVE	MCT-HF4-MOD
43	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	FEDERAL INDUSTRIES	LMDM4878SC
44	2	CART, DISH AND TRAY	PIPER PRODUCTS	721
45	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
46	2	MOBILE CASHIER STATION	MOD-U-SERVE	MCT-CRSG-MOD
47	1	SPARE NUMBER		
48	1	SPARE NUMBER		
49	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
50	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
51	1	WORKTABLE	CUSTOM FABRICATED	CUSTOM
52	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM
53	1	CABINET, HEATED, ROLL-THRU	CONTINENTAL REFRIGERATOR	DL1WI-SS-RT
54	1	REFRIGERATOR, ROLL-THRU	CONTINENTAL REFRIGERATOR	D1RINSSRT
55	2	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
56	1	OVEN, MICROWAVE	AMANA	RCS10TS
57	1	OVERSHELF, SINGLE WITH MICROWAVE SHELF	CUSTOM FABRICATED	CUSTOM
58	1	WORKTABLE WITH SINK AND DRAWER	CUSTOM FABRICATED	CUSTOM
59	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO
60	1	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP
61	1	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	ALTO-SHAAM	7-20E_OVER_7-20E PRO
62	1	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP
63	1	STAINLESS STEEL WALL FLASHING	CUSTOM FABRICATED	CUSTOM
64	1	EXHAUST HOOD W/ MAKE-UP AIR (TYPE-1)	HALTON	KVE
65	1	FIRE SUPPRESSION SYSTEM	ANSUL/HALTON	R-102 WET
66	1	WALL CABINET	CUSTOM FABRICATED	CUSTOM
67	1	WORKTABLE WOOD TOP/ W SPLASH	CUSTOM FABRICATED	CUSTOM
68	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
69	1	SPARE NUMBER		
70	1	SPARE NUMBER		
71	1	SPARE NUMBER		
72	1	MOBILE ISLAND WORKTABLE W/ DRAWERS	CUSTOM FABRICATED	CUSTOM
73	1	SINK, PREP, TWO COMPARTMENTS	EAGLE GROUP	FNP2840-2-18L-4STR
74	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSS-LD
75	2	WALL SHELF	CUSTOM FABRICATED	CUSTOM
76	1	SHELVING, PLASTIC, LOUVERED	METRO	METROMAX Q
77	2	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
78	1	HAND SINK WITH SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
79	1	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	D3RNSS

G ELEVATION
FS-1 SCALE: 1/2" = 1'-0"

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ELEVATIONS AND DETAILS

FS-6

BIDDING

DOCUMENT BINDING

RESERVED FOR DO

HOOD INFORMATION TABLE

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS						GREASE EXTRACTOR				HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	SUPPLY AIR REQUIREMENTS					PLENUM WEIGHT (LBS)
		EXHAUST CFM	TOTAL HOOD STATIC PRESSURE	T.A.B. PORT STATIC PRESSURE	EXHAUST COLLAR			QTY.	SIZE		TYPE			SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR			
					QTY.	LENGTH	WIDTH		L	H						QTY.	LENGTH	WIDTH	
64	KVE	1502	0.23"	0.13"	1	12"	11"	6	20"	13"	KSA	ALL 18 GA. 304 S.S.	982	1201	0.05"	1	14"	12"	207
								-	11"	13"									

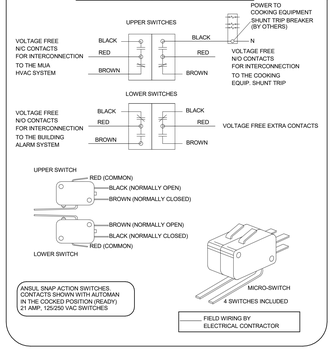
TOTAL EXH. CFM = 1502 TOTAL SUPPLY CFM = 1201

MAKE UP AIR GUIDELINES

- VELOCITY MEASURED AT THE LOWER FRONT LIP OF THE HOOD SHALL NOT EXCEED 75 FPM.
- TRANSFER AIR FROM PARTS OF THE BUILDING OTHER THAN THE KITCHEN SHALL NOT EXCEED 50 FPM VELOCITY.
- NO SLOT, 2-WAY, 3-WAY OR 4-WAY CEILING DIFFUSER SHALL PROVIDE AIRFLOW DIRECTED AT HOOD. MUST INSTALL DIFFUSERS MINIMUM OF 48 " [1219 MM] AWAY FROM ALL OPEN SIDES OF HOODS".

*EXCEPTION-HALTON KCDs MAY BE PLACED 24" [610 MM] AWAY FROM ALL OPEN SIDES OF HOODS.

ANSUL MICROSWITCH DETAIL



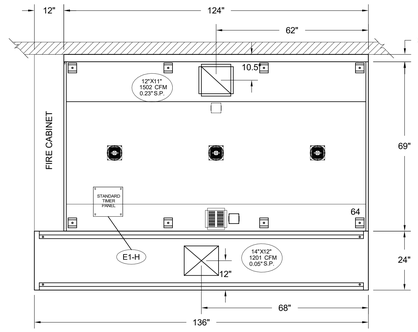
ANSUL R-102 SYSTEM

3 GALLON CABINET MOUNTED

ANSUL R-102 SYSTEM

MOUNTED IN FIRE CABINET:

(1) OEM REGULATED RELEASE
(1) 3 GALLON TANK



2 ITEM # 64 ELEVATION VIEW

1 ITEM # 64 PLAN VIEW

3 ITEM # 64 SECTION VIEW

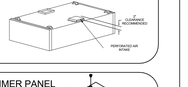
1) ANSUL R-102 FIRE SYSTEM
2) ONE TANK SYSTEM (3 GALLON)
3) 3/8" BLACK IRON PIPING (CONCEALED)
3/8" S.S. APPLIANCE DROPS (EXPOSED)
4) MECHANICAL GAS VALVE = (ADVISE SIZE)

NOTE:
T-STAT IS FACTORY PRE-SET FOR 95 DEGREES, IF SPACE CONDITIONS EXCEED 95 DEGREES WITHOUT COOKING TAKING PLACE, THEN A FIELD ADJUSTMENT OF THE T-STAT WILL BE REQUIRED BY PERSONNEL OTHER THAN HALTON. T-STAT IS A SAFETY INTERLOCK ONLY. IT IS NOT INTENDED AS A PRIMARY MEANS OF ENGAGING THE EXHAUST FAN.

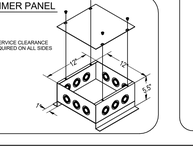
CAPTURE JET CLEARANCE DETAIL

Capture Jet ® Fan Cover Clearance

Patented Capture Jet ® technology perimeter air jets improve capture and containment of heat and grease emissions. It is very important to leave air space above and around the Capture Jet ® air intake cover on the top of the Halton hood. Please leave 2 inches of clearance on the top and sides of the perforated Capture Jet ® intake cover to allow unimpeded entrance of air into the Capture Jet ® fan.



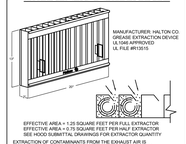
TIMER PANEL



Typical Wiring of Capture-Jet Fan W/HALTON SUPPLIED SWITCH PANEL

HANGER BRACKET LAYOUT

KSA GREASE EXTRACTOR



MANUFACTURER: HALTON CO
GREASE EXTRACTION DEVICE
UL 1046 APPROVED
UL FILE #R13515

EFFECTIVE AREA = 1.25 SQUARE FEET PER FULL EXTRACTOR
EFFECTIVE AREA = 0.75 SQUARE FEET PER HALF EXTRACTOR
SEE HOOD SUBMITTAL DRAWING FOR EXTRACTOR QUANTITY

EXTRACTION OF CONTAMINANTS FROM THE EXHAUST AIR IS PROVIDED BY CENTRIFUGAL FORCE AND IMPINGEMENT. THE MOST EFFICIENT GREASE EXTRACTION IS ACHIEVED BY FORCING THE EXHAUST AIR TO SPIRAL CONTINUOUSLY IN THE SAME DIRECTION IN THE MULTIPLE CHAMBERS OF THE EXTRACTOR, THUS SEPARATING THE GREASE PARTICLES FROM THE AIR FLOW CENTRIFUGALLY. HIGH EXTRACTION EFFICIENCY AND LOW PRESSURE LOSS OVER THE KSA REMAIN PRACTICALLY CONSTANT.

KSA REMOVAL TOOL



PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONVECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE "TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT". DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE, ENSURING THE SPECIFYING ENGINEER THAT THE SYSTEM WILL PERFORM TO THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOWS AND RESULTS OF ASTM STANDARD F1704 TEST. (AS DETERMINED BY TAB PORTS AND PRESSURE VS. AIR FLOW CURVES.) CONSULTANT RESERVES THE RIGHT TO REJECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AT THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM, WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

ANY CHANGES IN THE SPECIFIED SIZING OF POWER WIRING, FAN SIZE, HORSEPOWER REQUIREMENTS, OR GAS LINES DUE TO THE USE OF ANY SYSTEM OTHER THAN THAT WHICH IS SPECIFIED IS THE RESPONSIBILITY OF THE ALTERNATE HOOD MANUFACTURER, AND MUST BE COORDINATED BY THE HOOD MANUFACTURER AND CONTRACTORS INVOLVED.

ELECTRICAL CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-H	120, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD 64

NOTE

HOOD(S) # 64

THE HOOD(S) NOTED ABOVE ARE DESIGNED AS THOUGH ONE EXHAUST FANS WILL BE USED FOR ALL NOTED HOODS. ONE TIMER PANEL IS REQUIRED PER EXHAUST FAN.

IT IS THE RESPONSIBILITY OF THE F.S.E.C. TO INFORM HALTON OF THE NUMBER OF EXHAUST FANS BEING UTILIZED ON THIS PROJECT.

GENERAL SPECIFICATIONS

1- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96, IMC SECTION 507 AND UL 710 STANDARD.

2- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #10314320HPRT-001

3- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.

4- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.

5- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.

6- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.

7- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

INSTALLATION REQUIREMENTS

KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS

1- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.

2- DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.

3- FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.

4- THE K.E.C MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.

5- IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

6- IF HALTON MODEL KVL BACKSHELF STYLE HOODS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THE INSTALLATION OF THE CAPTURE-JET FAN.

ELECTRICAL CONTRACTOR'S REQUIREMENTS

1- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

ELECTRICAL EQUIPMENT REQUIREMENTS

FLUORESCENT LIGHT FIXTURE
40 WATT MAX BULB= .67 AMP EA.

RECESSED INCANDESCENT LIGHT FIXTURE
150 WATT MAX BULB= 1.25 AMP EA.

GLOBE INCANDESCENT LIGHT FIXTURE
100 WATT MAX BULB= .83 AMP EA.

HCL LIGHT FIXTURES= .12 AMP EA.

LED LIGHT FIXTURES= .30 AMP EA

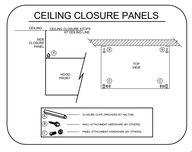
CAPTURE JET FAN= .72 AMP EA

ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP

LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS

100W EQUIVALENT CFL OR LED BULBS ARE ACCEPTABLE FOR USE IN THE INCANDESCENT FIXTURE HOUSINGS.

CEILING CLOSURE PANELS



CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.: _____

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
2. THE SIZE AND TYPE OF EXHAUST FANS
3. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER
ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT PLACEMENT MAY REQUIRE A RECALCULATION OF EXHAUST AIRFLOW. FAILURE TO NOTIFY OF THESE CHANGES OCCUR, A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION
☐ REVISE AND RESUBMIT
☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED

APPROVED BY: DATE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (USA) ☒
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

HALTON CO. (CANADA) ☐
6303 ORTONA MILLS DRIVE
MISSISSAUGA, ONTARIO L5T 2H1
1-905-624-03011

WEBSITE: www.halton.com

REV.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

PROJECT: LINCOLN IRVING ES
LOCATION: MOLINE, IL
DRAWN BY: CV
DATE: 05.09.25
SCALE: NTS
CONSULTANT: CLEVENGER

Halton

DRAWING TITLE: HOOD DETAILS

DRAWING No.: U25-361

REV. NO.: 0 SHEET NO.: 1 of 1

BIDDING 10-22-25

CLEVENGER ASSOCIATES
FOODSERVICE, BAKERY, COMMISSARY AND LAUNDRY DESIGNCONSULTING
INFO@CLEVENGERASSOC.COM
1540 WINTERGREEN DRIVE ASBURY, IA 52002 PHONE: 563.582.5109 FAX: 563.582.5109 (CALIFORNIA) 562.692.5109 CELL: 925.413.1295 (PHILIPPINES) WWW.CLEVENGERASSOC.COM

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MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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Muscatine, IA 52761
P: 563.263.7691
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IMEG
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Rock Island, IL 61201
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MEP/FP ENGINEER
RTM Engineering Consultants
5137 Utica Ridge Rd.
Davenport, IA 52807
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www.rtmec.com

FOOD SERVICE CONSULTANT
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Asbury, IA 52002
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www.clevengerassoc.com

CONSTRUCTION MANAGER
Estes Construction
131 W 2nd Street, Suite 400
Davenport, IA 52803
P: 563.322.7301
www.estesconstruction.com

SIGNATURE _____

DATE _____

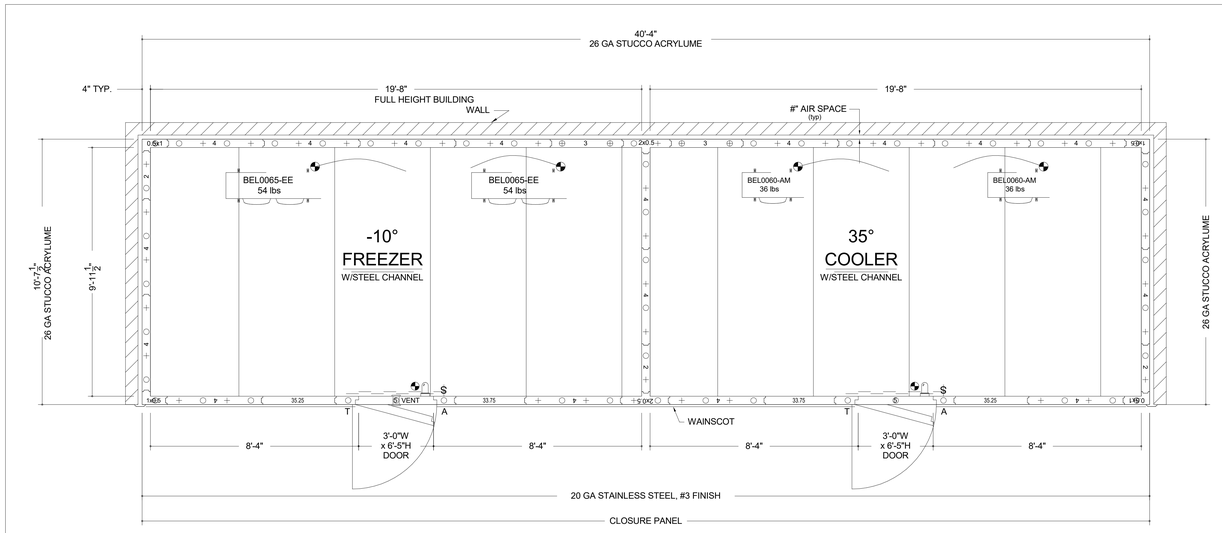
REVISIONS

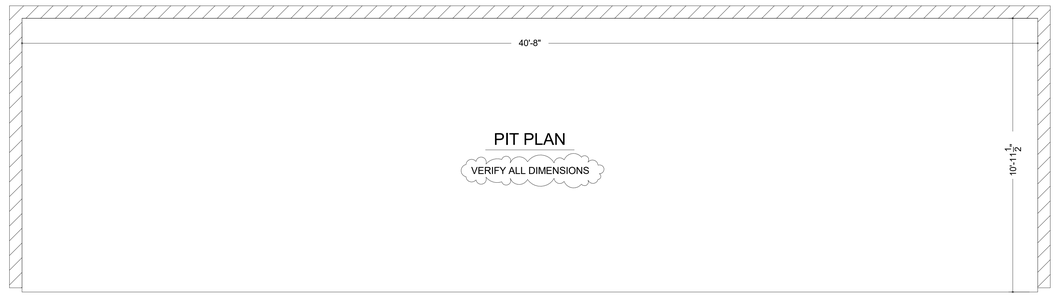
NO.	DESCRIPTION	DATE

PROJECT NUMBER 224150.00
DATE OF ISSUE 10/22/25
DRAWN BY JA
REVIEWED BY EN

EXHAUST HOOD ENGINEERING

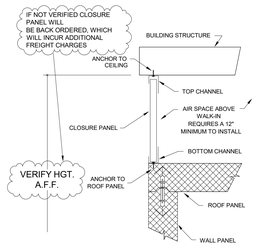
FSV-1
BIDDING



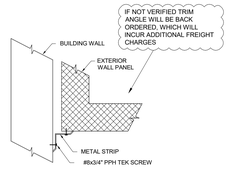


PIT PLAN

VERIFY ALL DIMENSIONS

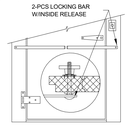


CLOSURE PANEL



TRIM ANGLE
DETAIL #2

CANNOT HAVE ON RHH DOOR W/1097 DOOR CLOSER OR IF 48" WIDE OR LARGER W/3 HINGES & 1097 DOOR CLOSER, (NO ROOM FOR LOCKING BAR) MUST BE HIGH SECURITY (PER MUH 12/9/20)



LOCKING BAR DETAIL

~SPECIFICATIONS~

BOX HEIGHT: FREEZER - 9'-2" OVERALL (8'-6" INTERIOR)
COOLER - 9'-2" OVERALL (8'-6" INTERIOR)

CONSTRUCTION: FOAMED IN PLACE
NSF LISTED, STANDARD NO. 7

INSULATION: 4" URETHANE, FINISHED PANEL
UL CLASSIFIED FLAME SPREAD 20
CORE SMOKE DEVELOPED 250

INSTALLATION: INDOOR

FLOOR: (SEE DETAILS) FREEZER - FLOORLESS W/STEEL CHANNEL
COOLER - FLOORLESS W/STEEL CHANNEL

DOOR HARDWARE & ACCESSORIES: (EACH DOOR)
- SMOOTH POLISHED DOOR HARDWARE
- POWER TO BE STUBBED OUT CEILING PANEL
- DRY CONTACT LEADS TO BE STUBBED OUT CEILING PANEL IN A SEPARATE STUB OUT
- KASON #10944-4 DEADBOLT LOCK
- DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK PROVISION & QUARTER TURN INSIDE RELEASE
- 1/8" STAINLESS STEEL THRESHOLD COVER PLATE
- FRAME HEATER WIRE
- HYDRAULIC DOOR CLOSER
- IC+ WALK-IN DOOR CONTROLLER AND ALARM SYSTEM INCLUDING:
  - INTEGRATED LIGHT SWITCH WITH AUTOMATIC LIGHT OFF AND 3-WAY & 4-WAY CAPABILITY
  - TEMPERATURE MONITOR AND LOGGER WITH HIGH TEMP. AND LOW TEMP. VISUAL AND AUDIO ALARM F OR C TEMPERATURE SELECTION
  - INTEGRATED DRY CONTACT FOR ALARM SIGNALING & POWER FAILURE (1A @ 24VAC, 1A @ 30VDC)
  - DOOR AND WINDOW HEATER CONTROL (WHEN SO EQUIPPED)
  - HACCP PREVIEW VIA ONBOARD LCD SCREEN
  - HACCP DOWNLOAD VIA USB
  - WIFI CONNECTIVITY (INTERNET ENABLED WIFI NETWORK NEEDED)
  - BATTERY BACKUP
  - TEMPERATURE ALARM NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
  - POWER FAILURE NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES (FOR THIS FEATURE TO WORK THE LOCAL WIFI NETWORK MUST BE POWER PROTECTED AND WORKING AT THE TIME OF POWER FAILURE EVENT)
  - AUTOMATIC AND ON DEMAND TRANSMISSION OF HACCP DATA VIA EMAIL
  - ADAPTIVE SETTINGS
  - MOMENTARY BACK-TO-BACK LIGHT SWITCH W/PILOT
  - 25' AIR TEMPERATURE PROBE
  - APCHILL CLOUD CONNECTIVITY TO ENABLE REMOTE MONITORING ON MOBILE DEVICES AND PUSH NOTIFICATIONS FOR ALARMS (INTERNET ENABLED WIFI NETWORK NEEDED)
  - DOOR SWITCH TO ENABLE DOOR AJAR ALARM, DOOR AJAR NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES, AND AUTOMATIC LIGHTS ON WHEN DOOR OPENS
  - PANIC ALARM WITH ILLUMINATED PANIC BUTTON, ALARM BUZZER WITH LED, & NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
- 2" FLUSH MOUNT DIAL THERMOMETER W/25' PROBE
- KASON SCREW-IN VAPOR PROOF LIGHT FIXTURE W/8.5 WATT SYLVANIA LED BULB & GLOBE
- STRIP CURTAIN
- 2 - STD. CAM RISE HINGES
- HEATED VISION WINDOW (14" x 14")
- KASON #1827 PRESSURE RELIEF VENT (FREEZER ONLY)
- 1/10" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH I/S & O/S DOOR & FRAME
- EVAPORATOR FAN CUT-OFF SWITCH
- 2 PC. 12 GA STAINLESS STEEL DOOR LOCKING BAR

ACCESSORIES: (SHIPPED LOOSE)
- 2 - PCS. TRIM ANGLE - 20 GA STAINLESS STEEL, #3 FINISH
- 6 - 48" (1810LC) LED LIGHT FIXTURE(S) @ 40W EACH
- VERIFY HEIGHT — CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)
- .20 GA STAINLESS STEEL, #3 FINISH
- 1/10" DIAMOND ALUMINUM TREAD PLATE WAINSCOT @ 36" HIGH (EXPOSED EXTERIOR)
- 2 - DOOR STOP(S)
- 2 - BAKELITE LABEL(S) (BLACK) (FREEZER, COOLER)
- 2 - STAINLESS STEEL ESCUTCHEON(S)
- 2 - STAINLESS STEEL THERMOMETER PROBE STAND-OFF BRACKET(S)
- 2 - KASON #1001 MOTION SENSOR(S) W/LIGHT ACTIVATOR & SHUT OFF VISQUEEN PLASTIC SHEETING
- 2 LAYERS OF 2" THICK URETHANE SLAB INSULATION

METAL FINISHES:
- INTERIOR & EXTERIOR DOOR & FRAME - 18 GA STAINLESS STEEL, #3 FINISH
- INTERIOR WALLS - .040 STUCCO ALUMINUM
- INTERIOR CEILING - SMOOTH WHITE .040 ALUMINUM (U.S.D.A.)
- EXPOSED EXTERIOR - 20 GA STAINLESS STEEL, #3 FINISH
- UNEXPOSED EXTERIOR - 26 GA STUCCO ACRYLUME
- EXTERIOR CEILING - 26 GA STUCCO ACRYLUME

REFRIGERATION: U.L. LISTED, AIR COOLED, OUTDOORS

FREEZER CONDENSING UNIT: 1 - STD. PRE-ASSEMBLED REMOTE - HERMETIC SCROLL
3.00 HP MODEL NO. FFAL-A30Z-TFC-075 (R-448A)
EVAPORATOR: 2 - MODEL NO. BEL0065BS6EE W/E.C. MOTORS & I.R.C.

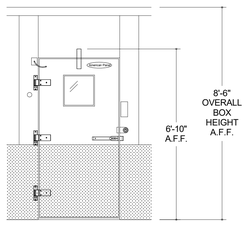
COOLER CONDENSING UNIT: 1 - STD. PRE-ASSEMBLED REMOTE - HERMETIC SCROLL
2.25 HP MODEL NO. FFAP-A22Z-TFC-075 (R-448A)
EVAPORATOR: 2 - MODEL NO. BEL0060BS6AM W/E.C. MOTORS & I.R.C.

REFRIGERATION ACCESSORIES:
- 2 - WINTERIZATION CONTROLS/LASA
- 2 - U.L. LISTED COMPRESSOR COVER(S) (HINGED)
- 2 - STAND(S) FOR U.L. COVER (18" HIGH)

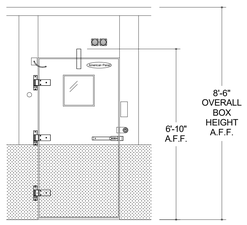
NOTE: THE LARGEST DOOR PANEL ON THIS JOB IS 57.5" x 106".
NOTE: THE LARGEST ROOF PANEL ON THIS JOB IS 46.5" x 127.5". CUSTOMER IS TO VERIFY THAT THIS PANEL SIZE WILL NOT CONFLICT WITH ANY JOB SITE RESTRICTIONS.
NOTE: CUSTOMER IS TO VERIFY ALL DIMENSIONS, SECTIONS, DETAILS AND SPECIFICATIONS
NOTE: MAXIMUM LIGHT CIRCUIT LOAD IS 1200W 120VAC TUNGSTEN, 5A 120VAC ELECTRONIC BALLAST. FOR HIGHER LOADS ADDITIONAL LIGHT FIXTURES MUST BE CONTROLLED VIA RELAY (BY OTHERS).

ELECTRICAL DATA
= POINT OF ELECTRICAL CONNECTIONS.
FREEZER
CONDENSING UNIT: 208-230v/60/3□: 17.2/21.5/30.0 (RLA/MCA/MOP)
EVAPORATOR: 208-230v/60/1□: 1.5/9.5 AMPS
COOLER
CONDENSING UNIT: 208-230v/60/3□: 11.7/16.0/20.0 (RLA/MCA/MOP)
EVAPORATOR: 208-230v/60/1□: 0.6 AMPS
WALK-IN DOORS: 115v/1□ - 350w *

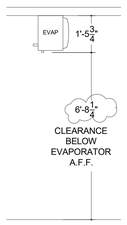
* NOTE: ADD WATTAGE FOR EACH ADDITIONAL LIGHT FIXTURE IN ACCESSORIES.



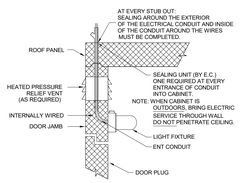
COOLER DOOR ELEVATION



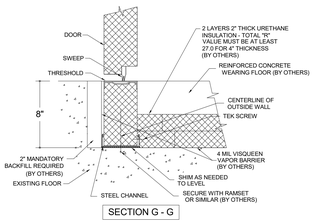
FREEZER DOOR ELEVATION



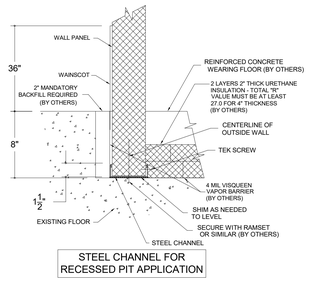
SECTION AT EVAPORATOR
TYP.



DOOR ELECTRICAL CONNECTION



SECTION G - G



STEEL CHANNEL FOR RECESSED PIT APPLICATION

To prevent metal corrosion, doors must be kept open and air circulating during application and curing of all flooring materials including concrete, grout, epoxy, etc.

WALK-IN PANEL		
R-8967		
BUILDING UNITS	R-8967	37M2
USA		
SURFACE BURNING CHARACTERISTICS		
MATERIAL DETAILS	"FLAME SPREAD"	"SMOKE DEVELOPED"
ALUMINUM PANELS, PAINTED OR UNPAINTED, 5" OR LESS. "GALVANIZED STEEL OR STAINLESS STEEL PANELS, PAINTED OR UNPAINTED, 5" OR LESS".	10	350
CORE MATERIAL, 6" THICK	20	250

THE WALK-IN MUST BE INSTALLED ON A PERFECTLY LEVEL AND FLAT SURFACE TO ENSURE PROPER ALIGNMENT AND SMOOTH DOOR OPERATION.

AMERICAN PANEL WALK-IN COOLERS AND FREEZERS COMPLY WITH THE 2024 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C403.11

THIS AMERICAN PANEL WALK-IN WILL BE MANUFACTURED TO UL & NSF REQUIREMENTS. AMERICAN PANEL ACCEPTS NO LIABILITY FOR LOCAL CODE REQUIREMENTS OF WHICH AMERICAN PANEL HAS NOT BEEN MADE AWARE OF IN WRITING PRIOR TO FABRICATION.

INSULATION R-VALUES		
PANEL TYPE	COOLER	FREEZER
4" WALLS, ROOFS	R-29	R-32
5" WALLS, ROOFS	R-36	R-40
FLOORS	R-25	R-28
DOORS	R-32	

FREEZER	
DOOR FRAME KWHr/DAY	3.6
CONDENSING UNIT AWEF VALUE	3.15
EVAP AWEF VALUE	4.00

COOLER	
DOOR FRAME KWHr/DAY	1.584
CONDENSING UNIT AWEF VALUE	7.60
EVAP AWEF VALUE	9.00

1) Please verify that door swing and location are correct.

2) If this walk-in is to be installed in a depression, or quarry tile is to be applied to the interior, depression depths or tile thickness must be specified to insure proper door height.

3) All site preparation, floor or slab construction, plumbing, electrical connections (including control wiring) by others.

4) Electrical: 115-60-1 required above latch side of each door, through ceiling, to operate frame heater and light.

5) Special note to General Contractor and his Sub Contractor for quarry tile or concrete wearing floors: the sheet metal panel facings may be susceptible to staining due to excessive moisture created by hydration of concrete type materials. Therefore, it is absolutely necessary that each room be properly ventilated. Also note that special precautions must be taken when using muriatic acid due to effects hydrochloric acid fumes have on aluminum and stainless steel.

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☐ APPROVED
☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT
SIGNATURE
PRINT NAME
DATE

REV.	DATE	DESCRIPTION	REV. BY	CHK'D BY
A	8/15/25	REVISED OVERALL HEIGHT IN SPECS	DH	NQ

American Panel
AMERICAN PANEL CORPORATION
5805 S.E. 78th St. Ocala, Florida 34472
Ph. (352) 245-7055 Fax (352) 245-0726

CUSTOMER: CLEVENGER ASSOCIATES
PROJECT: LINCOLN-IRVING ELEMENTARY SCHOOL - MOLINE, IL
DATE: 5/14/25 | DRAWN BY: DH/SE | P.O.#:
SCALE: 3/8"=1'-0" | PROPOSAL#: PD215302 | JOB#: | SHEET: 1 of 1

CLEVENGER ASSOCIATE
FOODSERVICE, BAKERY, COMMISSARY AND LAUNDRY DESIGN/CONSULTING
INFO@CLEVENGERASSOC.COM
1540 WINTERGREEN DRIVE ASBURY, IOWA 52002 PHONE: 563.582.5109
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BIDDING 10-22-25

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Davenport, IA 52803
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SIGNATURE
DATE

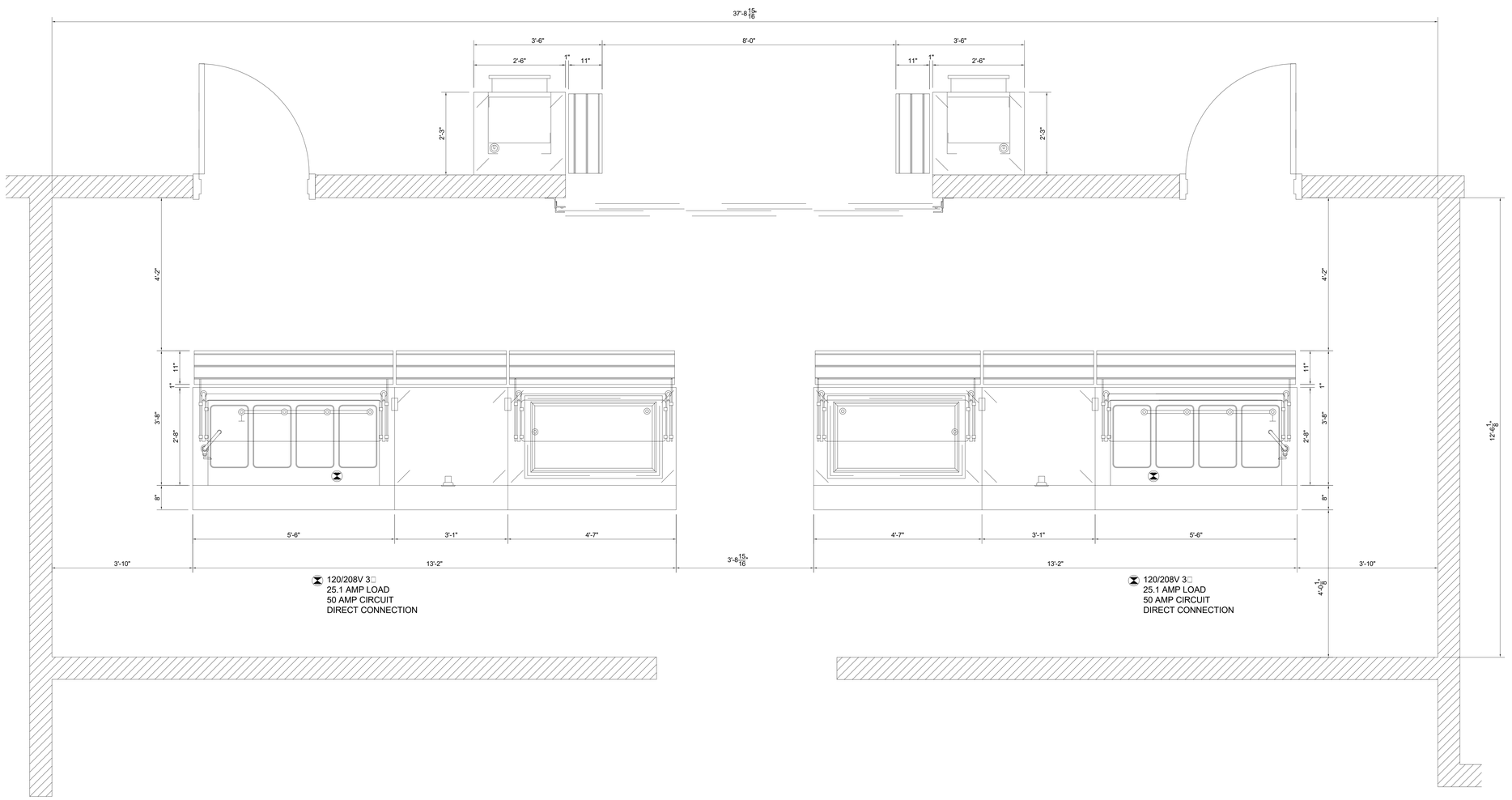
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 224150.00
DATE OF ISSUE 10/22/25
DRAWN BY JA
REVIEWED BY EN

WALK-IN-ENGINEERING

FSW-1
BIDDING



A PLAN - SERVING COUNTER
SCALE 3/4"=1'-0" ONE (1) REQUIRED

30" AFF TRAYSLIDE HEIGHT

DEALER NOTE - VERIFY FOLLOWING!

STAINLESS STEEL TRAYSLIDE:
P. LAM. FRONT PANEL: Verify plastic laminate selection to be used.
TRAY SIZE: Verify tray size to be used.
TRAYSLIDE HEIGHT: Verify trayslide height.

DRAWING APPROVAL

APPROVED BY: _____ DATE: _____
COMPANY: _____

VERIFY ALL DIMENSIONAL DATA INCLUDING UTILITY REQUIREMENTS AND LOCATIONS

CONSULTANT/KEC APPROVAL STAMP & SIGNATURE

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QUALITY YOU CAN COUNT ON

LINCOLN IRVING ELEMENTARY SCHOOL
MOLINE-COAL VELLEY SD

MOD-U-SERVE

COMMERCIAL KITCHENS INC.

2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

NO.	DESCRIPTION	DATE	BY

REVISION

DRAWING #	25-111-1.dwg
DRAWN BY	CB
REFERENCE	
DATE	05.13.2025

SHEET 1 OF 1 SHEETS

CLEVENGER ASSOCIATES
FOODSERVICE, BAKERY, COMMISSARY AND LAUNDRY DESIGN/CONSULTING
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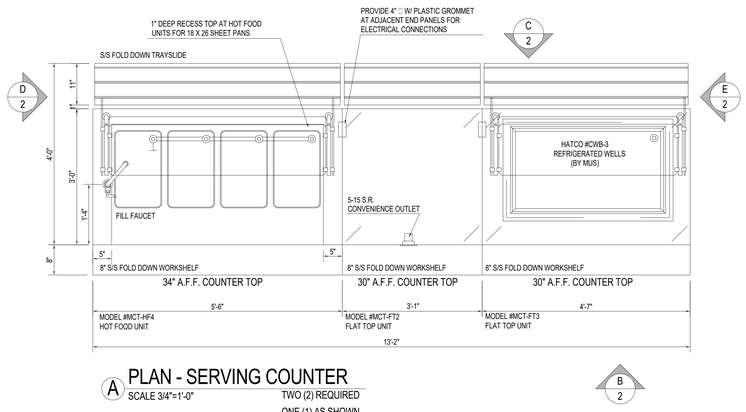
REVIEWED BY	EN

MOD-U-SERVE

MOD-1

BIDDING

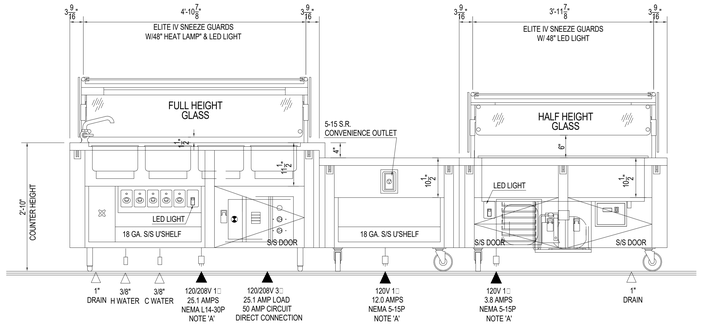


A PLAN - SERVING COUNTER

SCALE 3/4"=1'-0"

TWO (2) REQUIRED
ONE (1) AS SHOWN
ONE (1) OPP HAND

120/208V 3□
25.1 AMP LOAD
50 AMP CIRCUIT
DIRECT CONNECTION

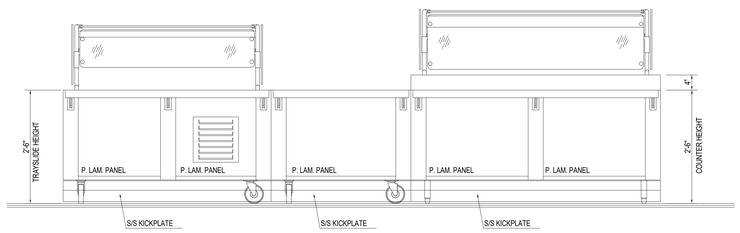


B ELEV. - REAR OF COUNTER

SCALE 3/4"=1'-0"

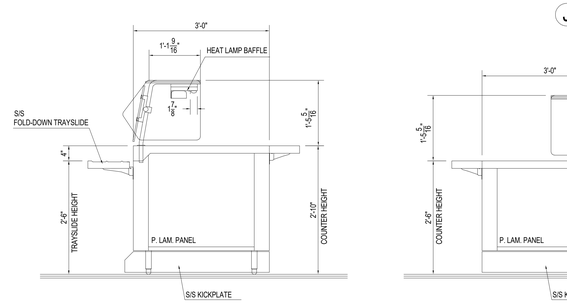
DEALER NOTE:
HOT FOOD UNIT MUST REMAIN ON LEGS FOR DIRECT ELECTRICAL CONNECTION

NOTE 'A' ELECTRICAL IN EACH COUNTER MODULE WILL PLUG INTO ELECTRICAL BOX LOCATED BEHIND UNDERSHELF WITH POINT OF USE BREAKER SYSTEM - EACH ELECTRICAL BOX WILL BE INTERCONNECTED BACK TO SINGLE CONNECTION POINT LOCATED IN HOT FOOD UNIT COUNTER INTERCONNECTION DEVICE BETWEEN MODULES WILL ALSO BE CORD AND PLUG



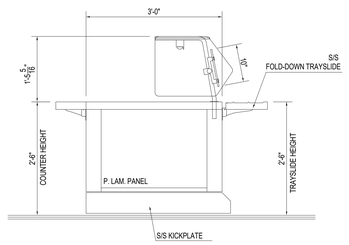
C ELEV. - FRONT OF COUNTER

SCALE 3/4"=1'-0"



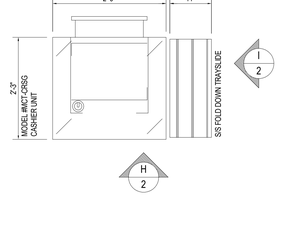
D END ELEVATION

SCALE 3/4"=1'-0"



E END ELEVATION

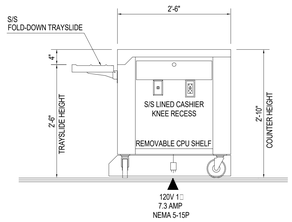
SCALE 3/4"=1'-0"



F PLAN - SERVING COUNTER

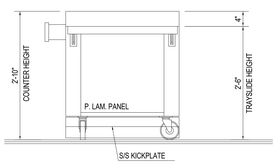
SCALE 3/4"=1'-0"

TWO (2) REQUIRED
ONE (1) AS SHOWN
ONE (1) OPP HAND



G ELEV. - REAR OF COUNTER

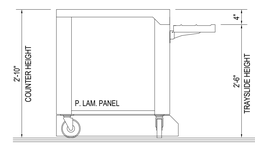
SCALE 3/4"=1'-0"



I ELEV. - SIDE OF COUNTER

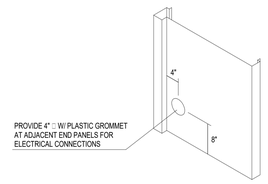
SCALE 3/4"=1'-0"

ONE (1) REQUIRED



H ELEV. - FRONT OF COUNTER

SCALE 3/4"=1'-0"



J END PANEL DETAIL

SCALE 3/4"=1'-0"

30" AFF TRAYSLIDE HEIGHT

DEALER NOTE - VERIFY FOLLOWING!

STAINLESS STEEL TRAYSLIDE:
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DRAWING # 25-111-2.dwg
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REFERENCE
DATE 05.13.2025
SHEET 2 OF 3 SHEETS

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REVIEWED BY EN

MOD-U-SERVE

BIDDING 10-22-25

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ASBURY, IOWA
HOUSTON, TEXAS
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WWW.CLEVENGERASSOC.COM

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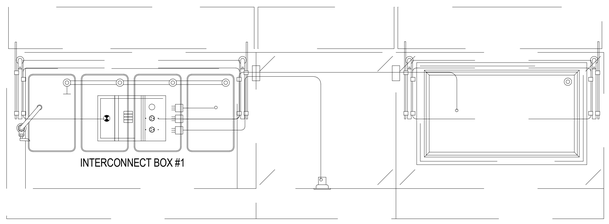
MOD-2
BIDDING

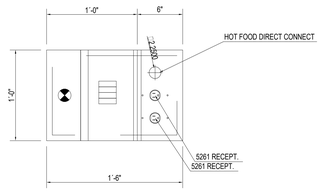


120/208V 3□
25.1 AMP LOAD
50 AMP CIRCUIT
DIRECT CONNECTION

A SERVING COUNTER ELECTRICAL

SCALE 3/4"=1'-0"

TWO (2) REQUIRED
ONE (1) AS SHOWN
ONE (1) OPP HAND



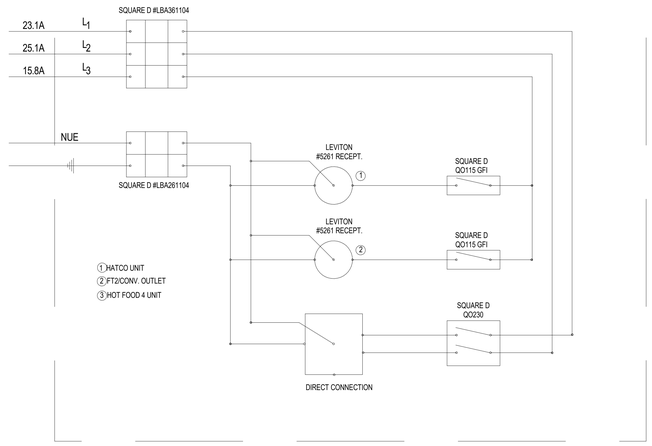
INTERCONNECT BOX #1&2

ELECTRICAL LOAD FOR INTERCONNECT BOX 1&2

Service	L_1	L_2	L_3
HOT FOOD 4 UNIT 120/208V 1□	23.1		
		25.1	
HATCO COLD FOOD UNIT 120V 1□			3.8
FLAT TOP UNIT 120V 1□			12.0
TOTAL ELECTRICAL LOAD	23.1	25.1	15.8

120/208V 3□
25.1 AMP LOAD
50 AMP CIRCUIT BREAKER
DIRECT CONNECTION

INTERCONNECT BOX #1&2



30" AFF TRAYSLIDE HEIGHT

DEALER NOTE - VERIFY FOLLOWING!

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MOD-U-SERVE

MOD-3

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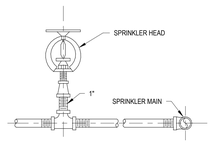
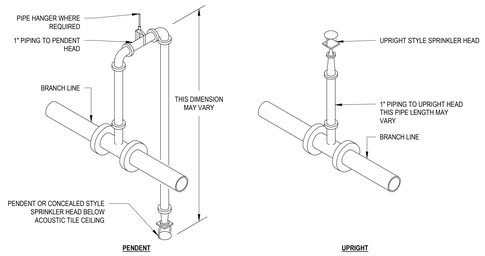


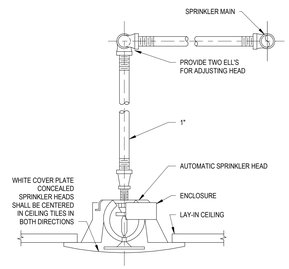
1 UPRIGHT SPRINKLER HEAD MOUNTING DETAIL

FP-000 SCALE: N.T.S.



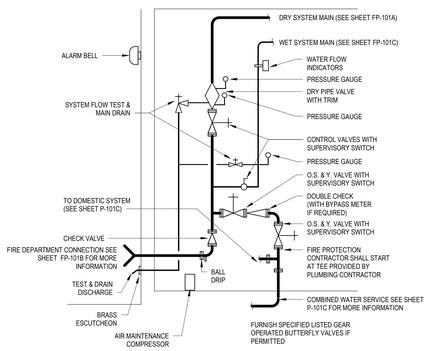
2 SPRINKLER TAKEOFF DETAIL

FP-000 SCALE: N.T.S.



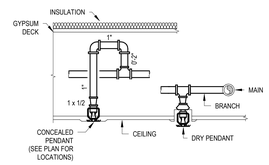
3 CONCEALED SPRINKLER HEAD MOUNTING DETAIL

FP-000 SCALE: N.T.S.



4 DRY AND WET SPRINKLER SYSTEM

FP-000 SCALE: N.T.S.



5 DRY SPRINKLER

FP-000 SCALE: N.T.S.

WATER SUPPLY AND DISTRIBUTION:

- DENOTES PUBLIC WATER MAIN (INDICATE PIPE SIZE AND MATERIAL)
- DENOTES PRIVATE WATER MAIN (INDICATE PIPE SIZE AND MATERIAL)
- DENOTES WATER MAIN UNDER BUILDING (INDICATE PIPE SIZE AND MATERIAL)
- DENOTES SUCTION PIPE (INDICATE PIPE SIZE AND MATERIAL)
- DENOTES THRUST BLOCK
- DENOTES RISER
- DENOTES VALVE IN GENERAL (BASIC SHAPE - INDICATE VALVE SIZE)
- DENOTES VALVE IN PIT (INDICATE VALVE SIZE)
- DENOTES VALVE WITH INDICATOR POST (INDICATE VALVE SIZE)
- DENOTES KEY-OPERATED VALVE (INDICATE VALVE SIZE)
- DENOTES OS&Y VALVE (OUTSIDE SCREW AND YOKE, RISING STEM - INDICATE VALVE SIZE)
- DENOTES INDICATING BUTTERFLY VALVE (INDICATE VALVE SIZE)
- DENOTES NON-INDICATING VALVE (NON-RISING STEM - INDICATE VALVE SIZE)
- DENOTES CHECK VALVE (BASIC SHAPE - INDICATE VALVE SIZE AND DIRECTION OF FLOW)
- DENOTES BACKFLOW PREVENTER - DOUBLE-CHECK TYPE
- DENOTES BACKFLOW PREVENTER - REDUCED PRESSURE ZONE TYPE
- DENOTES PRESSURE REGULATING VALVE
- DENOTES PRESSURE RELIEF VALVE
- DENOTES FLOAT VALVE
- DENOTES METER (INDICATE TYPE)
- DENOTES PRIVATE HYDRANT, ONE HOSE OUTLET (INDICATE SIZE, TYPE OF THREAD OR CONNECTION)
- DENOTES PUBLIC HYDRANT, TWO HOSE OUTLETS (INDICATE SIZE, TYPE OF THREAD OR CONNECTION)
- DENOTES PUBLIC HYDRANT, TWO HOSE OUTLETS AND PUMPER CONNECTION (INDICATE SIZE, TYPE OF THREAD OR CONNECTION)
- DENOTES WALL HYDRANT, TWO HOSE OUTLETS (INDICATE SIZE, TYPE OF THREAD OR CONNECTION)
- DENOTES PRIVATE HOUSED HYDRANT, TWO HOSE OUTLETS (INDICATE SIZE, TYPE OF THREAD OR CONNECTION)
- DENOTES SIAMESE FIRE DEPARTMENT CONNECTION (SPECIFY TYPE, SIZE, AND ANGLE)
- DENOTES FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION (SIDEWALK OR PIT TYPE, SPECIFY SIZE)
- DENOTES SINGLE FIRE DEPARTMENT CONNECTION (SPECIFY TYPE, SIZE, THREAD, AND ANGLE)
- DENOTES FIRE PUMP WITH DRIVER
- DENOTES FREESTANDING TEST HEADER (SPECIFY NUMBER AND SIZES OF OUTLETS)
- DENOTES WALL-MOUNTED TEST HEADER (SPECIFY NUMBER AND SIZES OF OUTLETS)
- FLOW SWITCH
- PRESSURE GAUGE

FIRE SPRINKLERS:

- DENOTES UPRIGHT SPRINKLER
- DENOTES PENDENT SPRINKLER (NOTE "DP" ON DRAWING AND / OR SPECIFICATION WHERE DRY PENDENT SPRINKLERS ARE EMPLOYED)
- DENOTES UPRIGHT SPRINKLER ON SPRIG
- DENOTES UPRIGHT SPRINKLER ON TOP OF RISER NIPPLE
- DENOTES UPRIGHT SPRINKLER ON TOP OF RISER NIPPLE WITH SPRIG
- DENOTES PENDENT SPRINKLER ON DROP NIPPLE (NOTE "DP" ON DRAWING AND / OR SPECIFICATION WHERE DRY PENDENT SPRINKLERS ARE EMPLOYED)
- DENOTES SPRINKLER WITH GUARD (UPRIGHT SPRINKLER SHOWN)
- DENOTES SIDEWALL SPRINKLER
- DENOTES OUTSIDE SPRINKLER - SPECIFY TYPE, ORIFICE SIZE; FOR EXAMPLE, OPEN SPRINKLER (WINDOW OR CORNICE)
- DENOTES OPEN SPRINKLER ON BRANCH LINE
- DENOTES OPEN SPRINKLER ON BRANCH LINE WITH SPRIG
- DENOTES WATER SPRAY NOZZLE
- DENOTES WINDOW SPRINKLERS

RENOVATION LEGEND:

<X>	EXISTING SPRINKLER TO REMAIN
<XRR>	EXISTING SPRINKLER HEAD TO BE REMOVED AND RELOCATED
<XO>	EXISTING SPRINKLER HEAD TO BE REMOVED
<XNL>	EXISTING SPRINKLER HEAD TO BE INSTALLED IN NEW LOCATION
<N>	NEW

PIPING, VALVES, HANGERS, & CONTROL DEVICES:

- DENOTES SPRINKLER PIPING AND BRANCHLINE (INDICATE PIPE SIZE)
- DENOTES ANGLE VALVE (ANGLE HOSE VALVE - INDICATE SIZE, TYPE, THREADS, AND OTHER REQUIRED DATA)
- DENOTES CHECK VALVE (GENERAL)
- DENOTES ALARM CHECK VALVE (SPECIFY SIZE, DIRECTION OF FLOW)
- DENOTES DRY PIPE VALVE WITH QUICK OPENING DEVICE (ACCELERATOR OR EXHAUSTER - SPECIFY SIZE AND TYPE)
- DENOTES DRY PIPE VALVE (SPECIFY SIZE)
- DENOTES DELUGE VALVE (SPECIFY SIZE AND TYPE)
- DENOTES PREACTION VALVE (SPECIFY SIZE AND TYPE)

GENERAL:

- ## — DRAWING KEYNOTE SYMBOL
- DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY
- DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT
- +X" - X" — MOUNTING HEIGHT DESIGNATION

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AVG	AVERAGE
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DEG F, °F	DEGREES FAHRENHEIT
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
DP	DRY PENDENT SPRINKLER
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HH	HIGH HEAT SPRINKLER
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IE	INVERT ELEVATION
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING CONTRACTOR
RM	ROOM
RQD	REQUIRED
SF	SQUARE FEET
SPEC	SPECIFICATION(S)
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

GENERAL NOTES:

1. SPRINKLER SYSTEM TO BE DESIGNED BY SPRINKLER CONTRACTOR. DRAWING INDICATED SCHEMATIC LAYOUT OF DESIGN INTENT OF SPRINKLER HEAD LAYOUT. HEADS INDICATED ON PLAN REPRESENT RECOMMENDED LOCATIONS. CONTRACTOR TO VERIFY QUANTITY AND LOCATION OF HEADS AS PART OF DESIGN BUILD CONTRACT.
2. ALL FIRE PROTECTION WORK TO BE EXECUTED IN STRICT CONFORMANCE WITH NFPA13, IFC 2012 AND LOCAL CODES AND AMENDMENTS OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AND ARCHITECT. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. HIGHER GRADES OF MATERIAL AND WORKMANSHIP SHALL BE PROVIDED WHERE REQUIRED.
3. SPRINKLER SYSTEM DESIGN SHALL BE BASED ON 0.10/GPM FOR THE MOST REMOTE 1500 SQUARE FEET. THIS IS BASED ON LIGHT HAZARD CLASSIFICATION.
4. FIRE PROTECTION CONTRACTOR TO SECURE ALL NECESSARY PERMITS AND APPROVALS FROM AUTHORITY HAVING JURISDICTION.
5. SPRINKLER HEADS SHALL BE PLACED IN CENTER OF TILES WHERE SUSPENDED CEILING EXISTS.
6. FIRE PROTECTION CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES PRIOR TO START OF WORK. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT CEILING SPACE AVAILABLE.
7. PRESSURE TEST PIPING SYSTEM AT 200 PSI FOR A MINIMUM OF 2 HOURS WITHOUT ANY LEAKS TO BE ADMINISTERED PRIOR TO FINAL SIGN OFF.
8. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ANY INSPECTIONS, PERMITS REQUIRED PRIOR TO INSTALLATION.
9. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING AND SPRINKLER HEAD LOCATIONS WITH ARCHITECT FOR AESTHETIC REASONS DURING SHOP DRAWINGS SUBMITTAL PHASE. ARCHITECT WILL REVIEW AND PROVIDE FEEDBACK ON PLACEMENT/LAYOUT. CONTRACTOR SHALL MAINTAIN RESPONSIBILITY FOR SYSTEM DESIGN MEETING APPLICABLE CODE REQUIREMENTS AND ADVISE ARCHITECT OF LIMITATIONS ACCORDINGLY. CONTRACTORS SHALL NOT REQUEST ADDITIONAL COMPENSATION FOR REQUESTED AESTHETIC COORDINATION DURING SHOP DRAWINGS SUBMITTAL PHASE.
10. ALL WALLS AND ROOF ENCLOSING INDICATED AS STORM SHELTER TO BE STORM SHELTER RATED WALLS PER ICC-500, 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (RECTANGULAR) OR 2-1/2 INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. P.C. IS RESPONSIBLE TO INSTALL PIPE/ PIPE PENETRATIONS PER STRUCTURAL PLANS. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
11. FIRE PROTECTION PIPING TO BE HARD PIPED TO SPRINKLER HEADS.
12. NEW FLOW PUMP TEST TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUNCTIONING PROPERLY.

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FIRE PROTECTION LEGEND

FP-000

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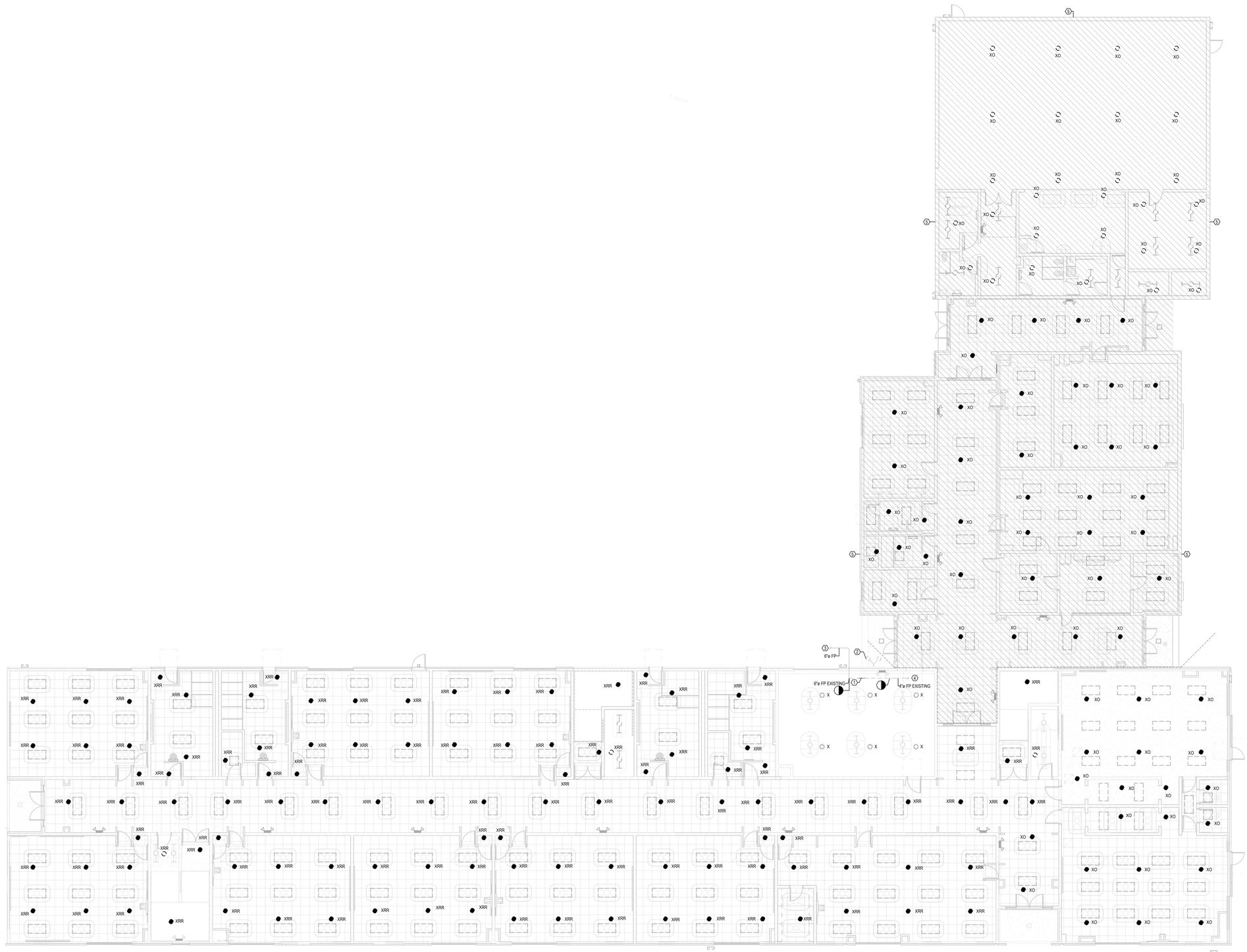

GENERAL NOTES:

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2. ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET FP-000 FOR LEGEND.
4. SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN CENTER OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
5. SPRINKLER CONTRACTOR TO INSTALL SPRINKLER SYSTEM TO MEET NFPA 13 REQUIREMENTS.
6. ALL UPRIGHT SPRINKLER HEADS TO FOLLOW DETAIL 1 ON SHEET FP-000 FOR SPRINKLER HEAD ORIENTATION.
7. EXISTING BUILDING SCOPE OF WORK : CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW WALL/ CEILING CONFIGURATION. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR 20 ADDITIONAL SPRINKLER HEADS IN THEIR BID FOR ADDITIONAL HEADS REQUIRED BY CODES.
8. NEW FLOW PUMP TEXT TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUCTIONING PROPERLY.

#	KEYNOTES
1	EXISTING 4" RPZ TO BE DEMOLISHED.
2	EXISTING FIRE DEPARTMENT CONNECTION TO BE DEMOLISHED BACK TO FIRE MAIN.
3	EXISTING 6" FIRE PROTECTION LINE BACK TO MAIN TO REMAIN.
4	EXISTING FIRE PROTECTION LINE TO REMAIN AND CONTINUE TO FEED REST OF BUILDING.
5	HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED IN ITS ENTIRETY NORTH OF THIS LINE. DEMOLISH ALL PIPING, VALVES AND SPRINKLER HEADS IN THIS AREA.

1 FPD-101 FIRE PROTECTION DEMOLITION FIRST FLOOR PLAN
1/8" = 1'-0"

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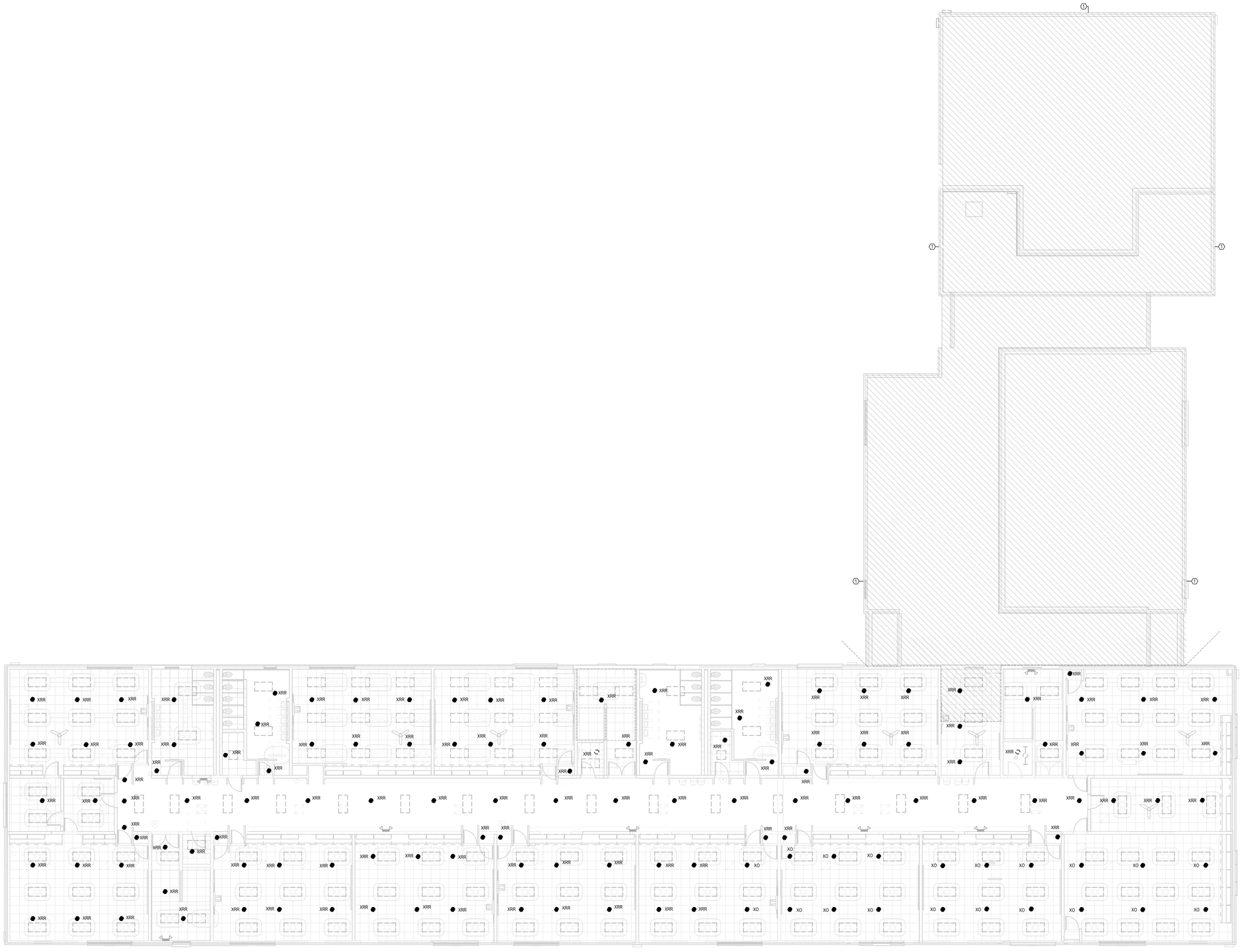
FIRE PROTECTION DEMOLITION FIRST FLOOR PLAN

FPD-101

BIDDING



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2. ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET FP-000 FOR LEGEND.
4. SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN CENTER OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
5. SPRINKLER CONTRACTOR TO INSTALL SPRINKLER SYSTEM TO MEET NFPA 13 REQUIREMENTS.
6. ALL UPRIGHT SPRINKLER HEADS TO FOLLOW DETAIL 1 ON SHEET FP-000 FOR SPRINKLER HEAD ORIENTATION.
7. EXISTING BUILDING SCOPE OF WORK : CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW WALL/ CEILING CONFIGURATION. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR 20 ADDITIONAL SPRINKLER HEADS IN THEIR BID FOR ADDITIONAL HEADS REQUIRED BY CODES.
8. NEW FLOW PUMP TEXT TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUCTIONING PROPERLY.

**KEYNOTES**

1 HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED IN ITS ENTIRETY NORTH OF THIS LINE. DEMOLISH ALL PIPING, VALVES AND SPRINKLER HEADS IN THIS AREA.

1 FPD-102 FIRE PROTECTION DEMOLITION SECOND FLOOR PLAN
1/8" = 1'-0"

N

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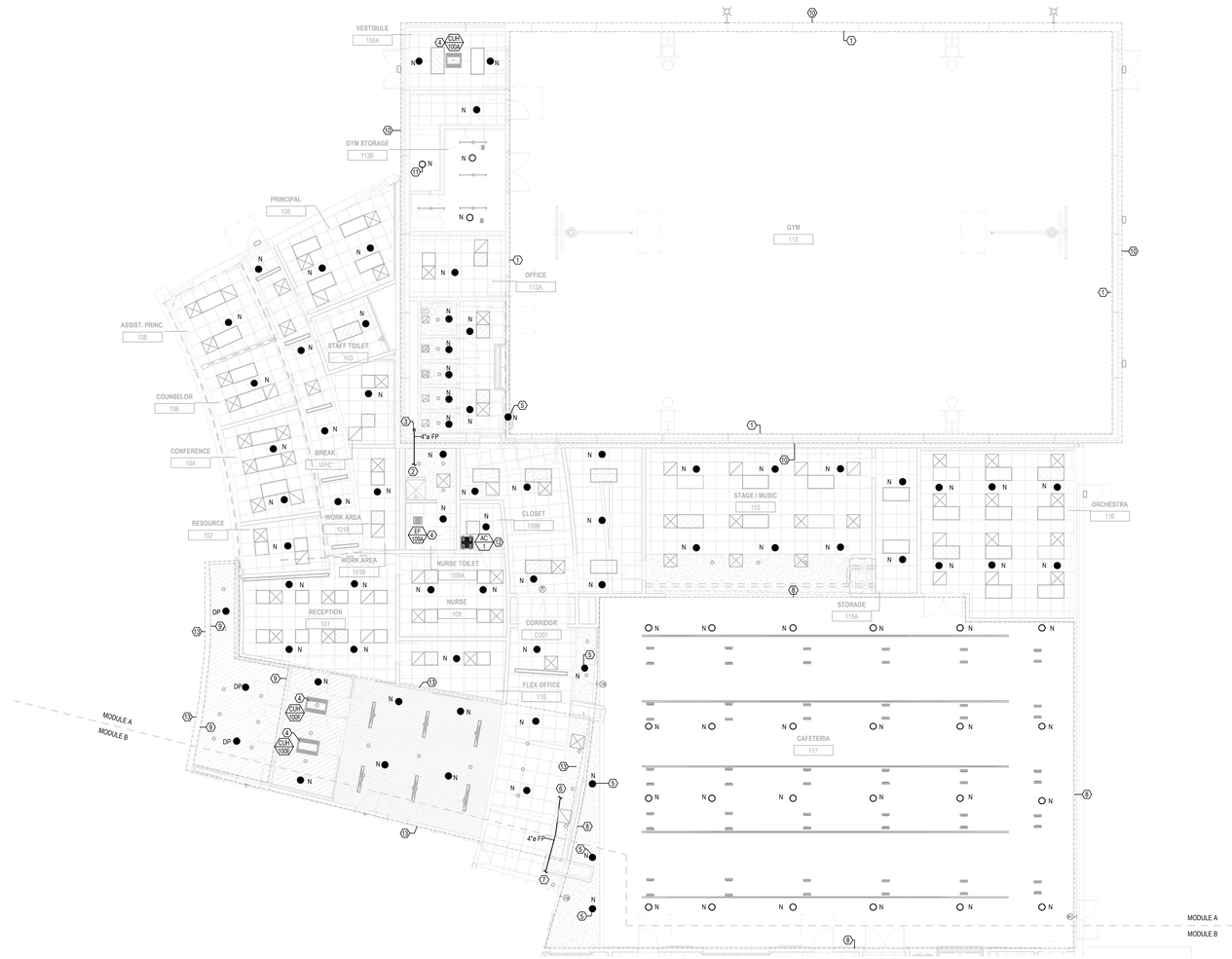
FIRE PROTECTION DEMOLITION SECOND FLOOR PLAN

FPD-102

BIDDING



1 FP-101A FIRE PROTECTION FIRST FLOOR SPRINKLER PLAN - MODULE A
1/8" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER TO RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET FP-000 FOR LEGEND AND GENERAL NOTES.
4. SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN CENTER OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
5. ALL UPRIGHT SPRINKLER HEADS TO FOLLOW DETAIL 1 ON SHEET FP-000 FOR SPRINKLER HEAD ORIENTATION.
6. CONTRACTOR SHALL PROVIDE A COMPLETE CODE COMPLIANT AUTOMATIC WET AND DRY PIPE SYSTEM THAT MEETS NFPA 13.
7. EXISTING BUILDING SCOPE OF WORK : CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW WALL/ CEILING CONFIGURATION. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR 20 ADDITIONAL SPRINKLER HEADS IN THEIR BID FOR ADDITIONAL HEADS REQUIRED BY CODES.
8. NEW FLOW PUMP TEST TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUNCTIONING PROPERLY.

 # KEYNOTES

1 SEE SHEET FP-102A FOR SPRINKLER HEAD LAYOUT IN THIS AREA.
2 NEW 4" FP LINE TO CONTINUE BACK TO BUILDING MAIN.
3 NEW 4" FIRE RISER TO EXTEND UP THROUGH MEZZANINE LEVEL. SEE SHEET FP-102A FOR MORE INFORMATION.
4 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
5 NEW SPRINKLER HEAD TO BE INSTALLED IN LOWER SOFFIT TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT.
6 NEW 4" FP LINE TO CONTINUE TO FEED REST OF BUILDING.
7 NEW 4" FP LINE TO CONTINUE BACK TO MODULE B. SEE SHEET FP101B FOR MORE INFORMATION.
8 NEW FP LINE TO RUN AS HIGH AS POSSIBLE IN THIS AREA.
9 SPINKLER HEADS IN THIS AREA TO BE DRY SPRINKLER HEADS.
10 DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALLS AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALLS PER ICC-500 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (REGTANGULAR) OR 2-1/2" INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. PC IS RESPONSIBLE TO INSTALL PIPE / PIPE PENETRATIONS PER STRUCTURAL PLANS. REFERENCE DETAILS 1 AND 2 / S-004.
11 SPRINKLER HEAD TO BE LOCATED UNDER STAIRS TO ENSURE COVERAGE UNDER STAIRS.
12 AIR COMPRESSOR FOR DRY SPRINKLER SYSTEM TO BE INSTALLED ABOVE CEILING. AIR COMPRESSOR TO BE GENERAL AIR QLR/130A, 1/4 HP, 130 GALLON CAPACITY AT 120VPH.
13 FIRE PROTECTION ESCUTCHEONS AND COVERS IN THIS AREA TO BE FACTORY PAINTED. COORDINATE EXACT COLOR WITH ARCHITECT.

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REVIEWED BY	RK

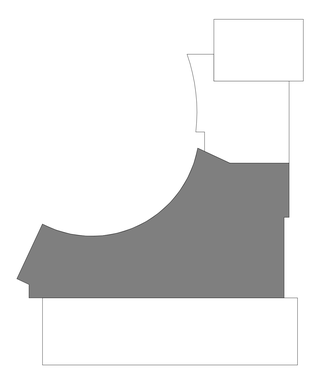
FIRE PROTECTION FIRST FLOOR SPRINKLER PLAN - MODULE A

FP-101A

BIDDING



1 FP-101B FIRE PROTECTION FIRST FLOOR SPRINKLER PLAN - MODULE B
1/8" = 1'-0"



GENERAL NOTES:

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2. ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET FP-000 FOR LEGEND AND GENERAL NOTES.
4. SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN CENTER OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
5. ALL UPRIGHT SPRINKLER HEADS TO FOLLOW DETAIL 1 ON SHEET FP-000 FOR SPRINKLER HEAD ORIENTATION.
6. CONTRACTOR SHALL PROVIDE A COMPLETE CODE COMPLIANT AUTOMATIC WET AND DRY PIPE SYSTEM THAT MEETS NFPA 13.
7. EXISTING BUILDING SCOPE OF WORK : CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW WALL/ CEILING CONFIGURATION. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR 20 ADDITIONAL SPRINKLER HEADS IN THEIR BID FOR ADDITIONAL HEADS REQUIRED BY CODES.
8. NEW FLOW PUMP TEST TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUNCTIONING PROPERLY.

 # KEYNOTES

1 SPRINKLERS IN THIS AREA TO BE ON FLOOR ABOVE. SEE SHEET FP-102A FOR MORE INFORMATION.
2 SPRINKLER HEAD TO BE LOCATED UNDER STAIRS TO ENSURE COVERAGE UNDER STAIRS.
3 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
4 KITCHEN HOOD TO BE INSTALLED IN THIS LOCATION. AREA IS PROTECTED BY ANSOL SYSTEM PROVIDED BY HOOD MANUFACTURER.
5 NEW 6" FIRE DEPARTMENT CONNECTION. COORDINATE EXACT LOCATION WITH FIRE MARSHAL.
6 NEW 6" FIRE MAIN TO CONTINUE UP TO SECOND FLOOR. FIRE MAIN TO BE LOCATED AS CLOSE TO THE CORNER OF STAIRWELL AS POSSIBLE. SEE SHEET FP-102B FOR MORE INFORMATION.
7 NEW SPRINKLER HEAD TO BE INSTALLED ON WALL UNDER STAIRS TO ENSURE FULL COVERAGE.
8 SPRINKLER HEAD TO BE INSTALLED ABOVE COOLER/ FREEZER. CONSULT WITH KITCHEN CONSULTANT OR MANUFACTURER FOR COVERAGE IN AND ABOVE COOLER/ FREEZER.
9 NEW SPRINKLER HEAD TO BE INSTALLED IN LOWER SOFFIT TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT.
10 NEW 4" FP LINE TO CONTINUE TO FEED MODULE A. SEE SHEET FP-101A FOR MORE INFORMATION.
11 NEW 4" FP LINE TO CONTINUE BACK TO BUILDING MAIN.
12 SPRINKLER HEAD TO BE INSTALLED UNDER TREE BRANCH TO ENSURE FULL COVERAGE IN THIS AREA.
13 SPRINKLER HEAD TO BE INSTALLED UNDER LOWER BALCONY CEILING TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT. SEE DETAIL 3/FP-102B FOR MORE INFORMATION.
14 NEW 4" FIRE PROTECTION LINE TO CONTINUE TO FEED REST OF BUILDING.
15 NEW 4" FP LINE TO CONTINUE BACK TO BUILDING MAIN. SEE SHEET FP-101C FOR MORE INFORMATION.

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REVIEWED BY	RK

FIRE PROTECTION FIRST FLOOR SPRINKLER PLAN - MODULE B

FP-101B

BIDDING

GENERAL NOTES:

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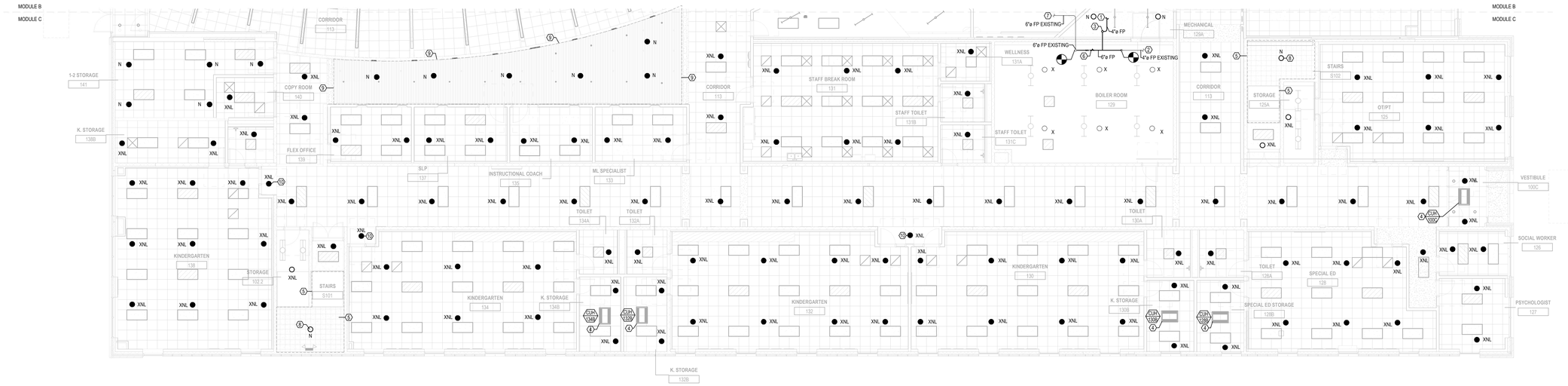
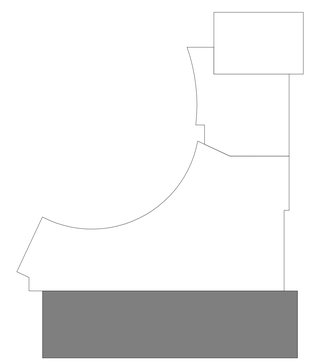
2. ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET FP-000 FOR LEGEND AND GENERAL NOTES.
4. SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN CENTER OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
5. ALL UPRIGHT SPRINKLER HEADS TO FOLLOW DETAIL 1 ON SHEET FP-000 FOR SPRINKLER HEAD ORIENTATION.
6. CONTRACTOR SHALL PROVIDE A COMPLETE CODE COMPLIANT AUTOMATIC WET AND DRY PIPE SYSTEM THAT MEETS NFPA 13.
7. EXISTING BUILDING SCOPE OF WORK : CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW WALL/ CEILING CONFIGURATION. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR 20 ADDITIONAL SPRINKLER HEADS IN THEIR BID FOR ADDITIONAL HEADS REQUIRED BY CODES.
8. NEW FLOW PUMP TEST TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUNCTIONING PROPERLY.

**KEYNOTES**

1 NEW FIRE PROTECTION LINE TO CONTINUE TO FEED REST OF BUILDING. SEE SHEET FP-101A FOR MORE INFORMATION.
2 EXISTING FIRE PROTECTION LINE TO REMAIN AND CONTINUE TO FEED REST OF BUILDING.
3 NEW FIRE PROTECTION LINE TO CONTINUE UP TO SECOND FLOOR. SEE SHEET FP-102B FOR MORE INFORMATION.
4 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
5 SEE SHEET FP-102C FOR SPRINKLER LAYOUT FOR STAIRCASE.
6 NEW 6" DCDA
7 EXISTING 6" FIRE PROTECTION LINE BACK TO MAIN TO REMAIN.
8 SPRINKLER HEAD TO BE LOCATED UNDER STAIRS TO ENSURE COVERAGE UNDER STAIRS.
9 FIRE PROTECTION ESCUTCHEONS AND COVERS IN THIS AREA TO BE FACTORY PAINTED. COORDINATE EXACT COLOR WITH ARCHITECT.
10 NEW SPRINKLER HEAD TO BE INSTALLED IN LOWER SOFFIT TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT.



1 FP-101C — FIRE PROTECTION FIRST FLOOR SPRINKLER PLAN - MODULE C
1/8" = 1'-0"



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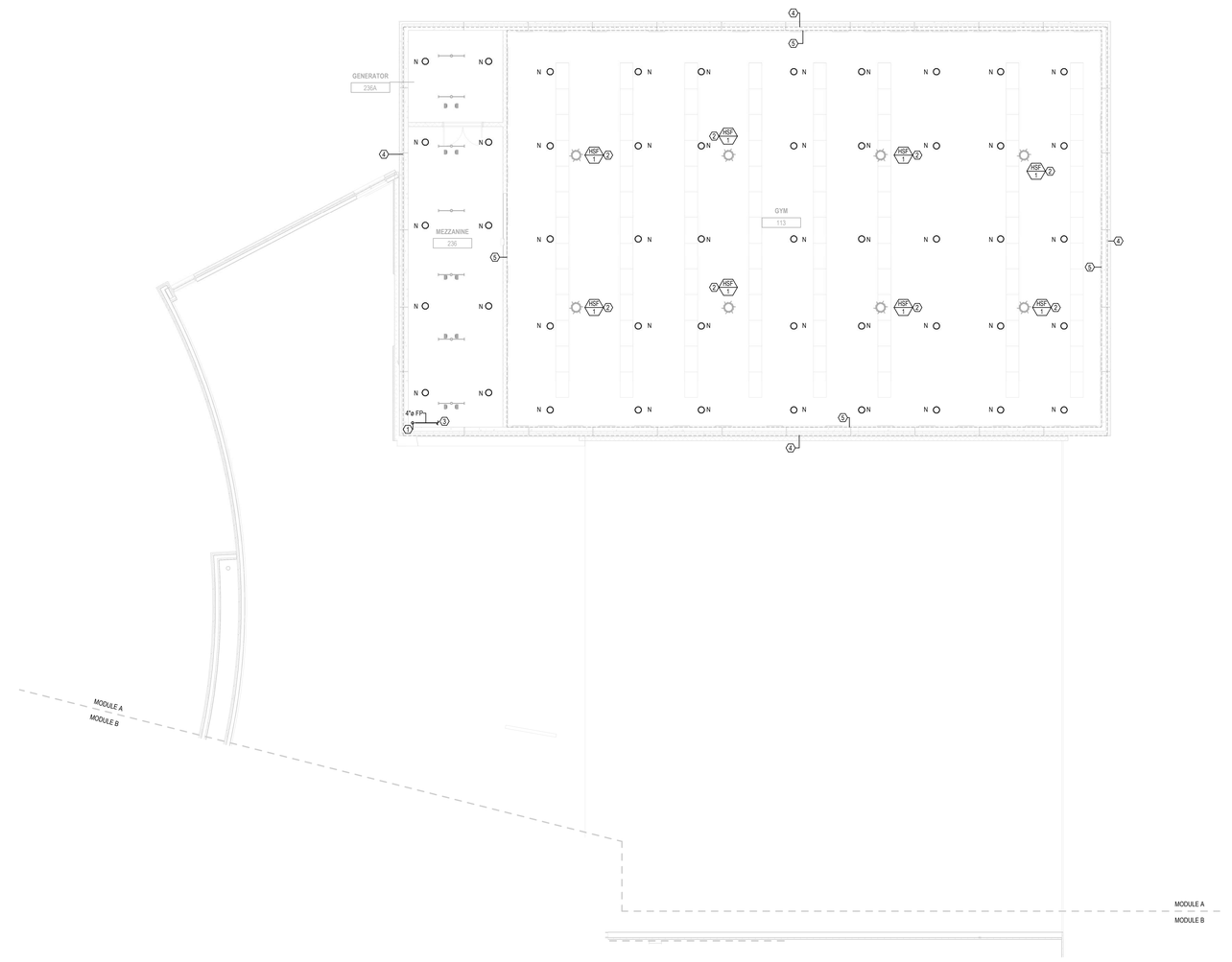
REVIEWED BY	RK

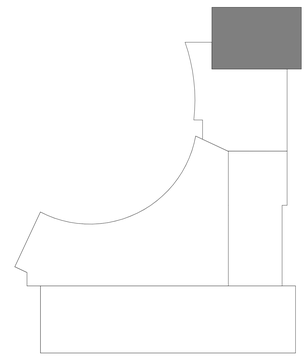
FIRE PROTECTION FIRST FLOOR SPRINKLER PLAN - MODULE C

FP-101C

BIDDING



1 FP-102A FIRE PROTECTION SECOND FLOOR SPRINKLER PLAN - MODULE A
1/8" = 1'-0"



GENERAL NOTES:

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2. ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET FP-000 FOR LEGEND AND GENERAL NOTES.
4. SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN CENTER OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
5. ALL UPRIGHT SPRINKLER HEADS TO FOLLOW DETAIL 1 ON SHEET FP-000 FOR SPRINKLER HEAD ORIENTATION.
6. CONTRACTOR SHALL PROVIDE A COMPLETE CODE COMPLIANT AUTOMATIC WET AND DRY PIPE SYSTEM THAT MEETS NFPA 13.
7. EXISTING BUILDING SCOPE OF WORK : CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW WALL/ CEILING CONFIGURATION. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR 20 ADDITIONAL SPRINKLER HEADS IN THEIR BID FOR ADDITIONAL HEADS REQUIRED BY CODES.
8. NEW FLOW PUMP TEST TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUNCTIONING PROPERLY.

 # KEYNOTES

1 NEW SPRINKLER LINE UP FROM FIRST FLOOR. SEE SHEET FP-101A FOR MORE INFORMATION.
2 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
3 NEW FIRE PROTECTION LINE TO CONTINUE TO FEED GYM AND MEZZANINE. FIRE PROTECTION LINE TO RUN AS HIGH AS POSSIBLE IN THIS AREA.
4 DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALLS AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALLS PER ICC-500 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (REGTANGULAR) OR 2-1/2" INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. PC IS RESPONSIBLE TO INSTALL PIPE / PIPE PENETRATIONS PER STRUCTURAL PLANS. REFERENCE DETAILS 1 AND 2 / S-004.
5 PROTECTIVE CAGE TO BE INSTALLED ON SPRINKLER HEADS TO PROTECT SPRINKLERS HEADS FROM DAMAGE IN THIS AREA. SPRINKLER MAIN TO RUN AS HIGH AS POSSIBLE.

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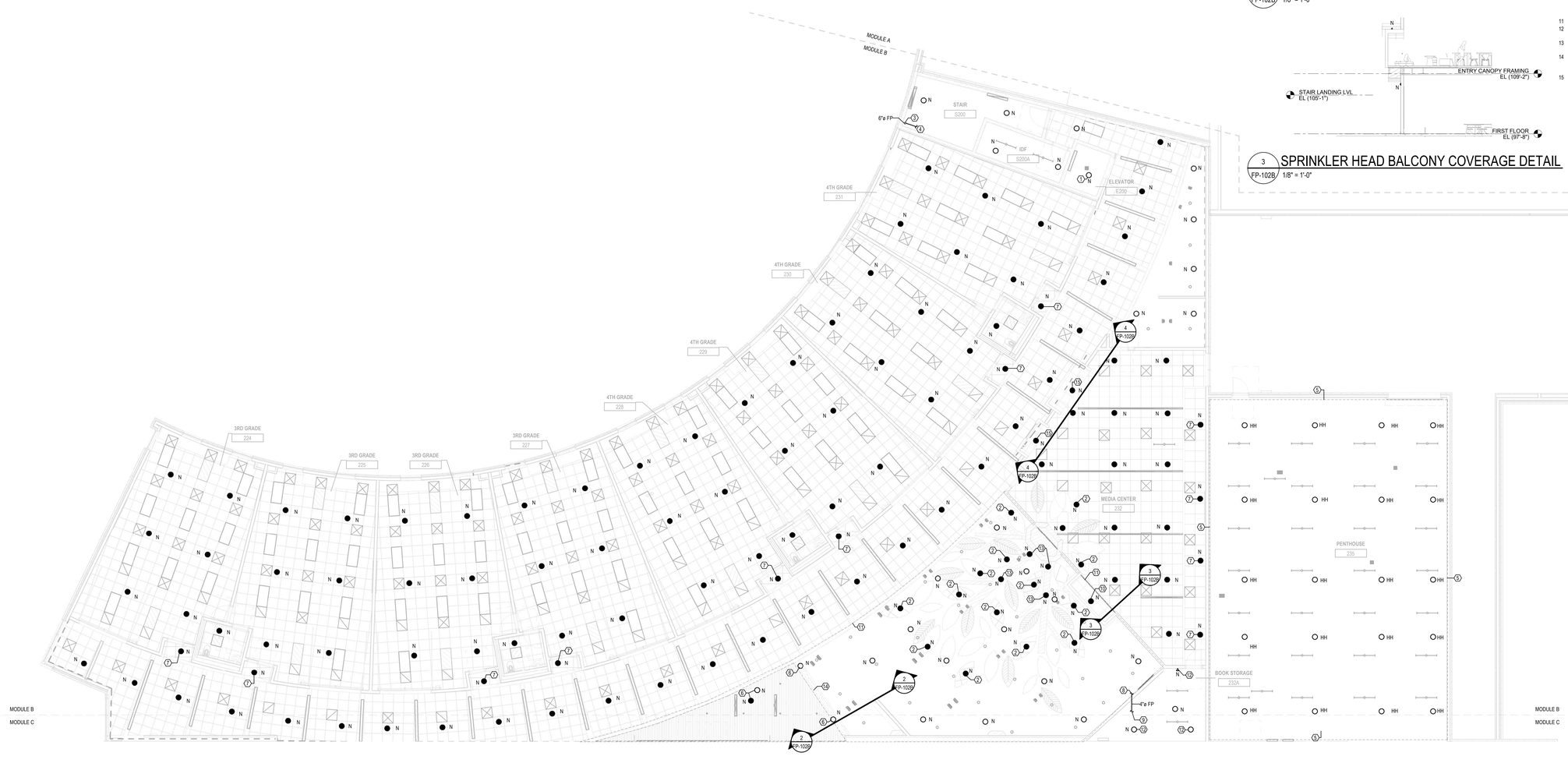
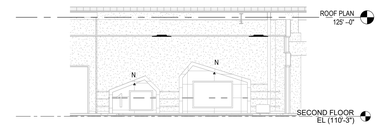
FIRE PROTECTION SECOND FLOOR SPRINKLER PLAN - MODULE A

FP-102A

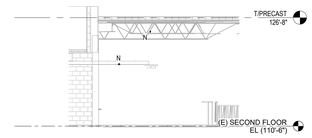
BIDDING



1 FP-102B — FIRE PROTECTION SECOND FLOOR SPRINKLER PLAN - MODULE B
1/8" = 1'-0"



4 FP-102B — LOWER SOFFIT COVERAGE
1/8" = 1'-0"



2 FP-102B — ABOVE CEILING SPRINKLER HEAD COVERAGE
1/8" = 1'-0"

3 FP-102B — SPRINKLER HEAD BALCONY COVERAGE DETAIL
1/8" = 1'-0"

GENERAL NOTES:

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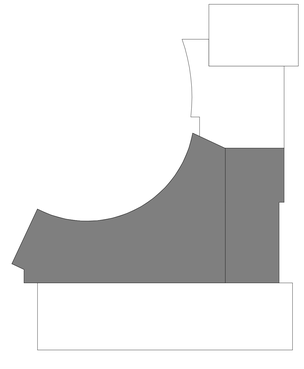
2. ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET FP-000 FOR LEGEND AND GENERAL NOTES.
4. SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN CENTER OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
5. ALL UPRIGHT SPRINKLER HEADS TO FOLLOW DETAIL 1 ON SHEET FP-000 FOR SPRINKLER HEAD ORIENTATION.
6. CONTRACTOR SHALL PROVIDE A COMPLETE CODE COMPLIANT AUTOMATIC WET AND DRY PIPE SYSTEM THAT MEETS NFPA 13.
7. EXISTING BUILDING SCOPE OF WORK : CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW WALL/ CEILING CONFIGURATION. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR 20 ADDITIONAL SPRINKLER HEADS IN THEIR BID FOR ADDITIONAL HEADS REQUIRED BY CODES.
8. NEW FLOW PUMP TEST TO BE COMPLETED AFTER FULL INSTALL OF FIRE PROTECTION SYSTEM TO ENSURE SYSTEM IS FUNCTIONING PROPERLY.

#	KEYNOTES
1	SPRINKLER HEAD TO BE A TOP ELEVATOR SHAFT.
2	NEW SPRINKLER HEAD TO BE PLACED UNDER LEAF TO ENSURE FULL COVERAGE UNDER LEAF.
3	NEW 6" FP LINE TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET FP-101B FOR MORE INFORMATION.
4	NEW 6" FP LINE TO CONTINUE TO FEED REST OF BUILDING.
5	SPRINKLER HEADS IN THIS AREA TO HAVE TWO SETS OF HEADS. ONE SET OF HEADS TO PROTECT BELOW AND ANOTHER TO PROTECT ABOVE DUCTWORK IN THIS AREA.
6	SPRINKLER HEADS IN THIS AREA TO BE INSTALLED IN LOWER CEILING AND ABOVE CEILING TO ENSURE FULL COVERAGE IN THIS AREA. SEE DETAIL 2/FP-102B FOR MORE INFORMATION.
7	NEW SPRINKLER HEAD TO BE INSTALLED IN LOWER SOFFIT TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT.
8	NEW 4" FP LINE TO CONTINUE TO FEED REST OF BUILDING.
9	NEW 4" FP LINE TO CONNECT BACK TO BUILDING MAIN. SEE SHEET FP-102C FOR MORE INFORMATION.
10	SPRINKLER HEAD TO BE INSTALLED UNDER LOWER BALCONY CEILING TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT. SEE DETAIL 3/FP-102B FOR MORE INFORMATION.
11	FP LINE IN THIS AREA TO BE RAN AS HIGH AS POSSIBLE.
12	SPRINKLER HEAD TO BE INSTALLED BELOW DUCTWORK IN TO ENSURE FULL COVERAGE IN THIS AREA.
13	SPRINKLER HEAD TO BE INSTALLED UNDER TREE BRANCH TO ENSURE FULL COVERAGE IN THIS AREA.
14	FIRE PROTECTION ESCUTCHEONS AND COVERS IN THIS AREA TO BE FACTORY PAINTED. COORDINATE EXACT COLOR WITH ARCHITECT.
15	SPRINKLER HEAD TO BE INSTALLED UNDER LOWER CEILING TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT. SEE DETAIL 4/FP-102B FOR MORE INFORMATION.



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REVIEWED BY	RK

FIRE PROTECTION SECOND FLOOR SPRINKLER PLAN - MODULE B

FP-102B

BIDDING

GENERAL NOTES:

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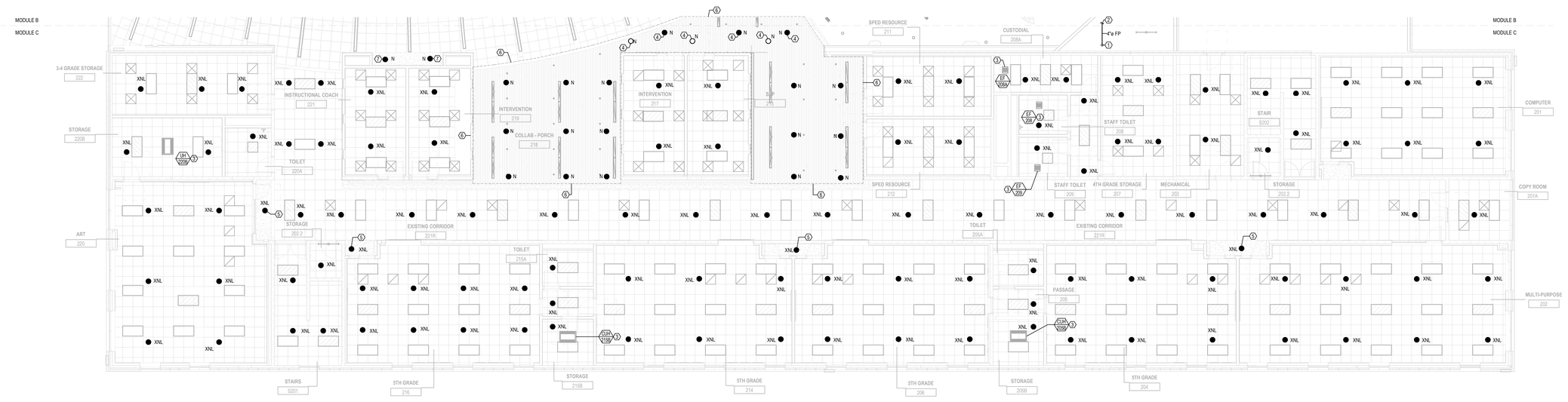
 # KEYNOTES

1. NEW FIRE PROTRECTION LINE UP FROM FIRST FLOOR. SEE SHEET FP-101C FOR MORE INFORMATION.
2. NEW FIRE PROTECTION LINE TO CONTINUE TO FEED REST OF BUILDING. SEE SHEET FP-101B FOR MORE INFORMATION.
3. MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
4. SPRINKLER HEADS IN THIS AREA TO BE INSTALLED IN LOWER CEILING AND ABOVE CEILING TO ENSURE FULL COVERAGE IN THIS AREA. SEE DETAIL 2/FP-102B FOR MORE INFORMATION.
5. NEW SPRINKLER HEAD TO BE INSTALLED IN LOWER SOFFIT TO ENSURE FULL COVERAGE. COORDINATE EXACT LOCATION WITH ARCHITECT.
6. FIRE PROTECTION ESCUTCHEONS AND COVERS IN THIS AREA TO BE FACTORY PAINTED. COORDINATE EXACT COLOR WITH ARCHITECT.
7. NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT. PROVIDE THERMOSTAT WITH LOCKABLE COVER.



1 FP-102C FIRE PROTECTION SECOND FLOOR SPRINKLER PLAN - MODULE C
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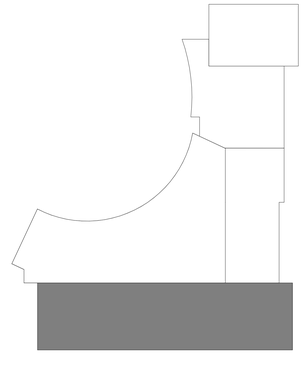

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FIRE PROTECTION SECOND FLOOR SPRINKLER PLAN - MODULE C

FP-102C

BIDDING

PIPE MATERIAL SCHEDULE				
APPLICATION	LOCATION	SIZE	MATERIAL	JOINING METHOD
STORM AND SANITARY WASTE/ VENT	BELOW GRADE	ALL	SCHEDULE 40 ABS	SOLVENT
		ALL	SCHEDULE 40 PVC	
	ABOVE GRADE PLENUM RETURN	ALL	SCHEDULE 40 ABS	SOLVENT HUBLESS
		ALL	CAST IRON	
T&P RELIEF	ALL	ALL	COPPER (TYPE M)	95/5 SOLDER
DOMESTIC WATER IN OR WITHIN 5' OF BUILDING	BELOW GRADE	ALL	COPPER (TYPE K) W/CORROSION-RESISTANT TAPE	LEAD FREE BRAZED
	ABOVE GRADE	ALL	COPPER (TYPE L OR K)	95/5 SOLDER
CONDENSATE	PLENUM RETURN	ALL	COPPER (TYPE M)	95/5 SOLDER
	DUCTED RETURN	ALL	SCHEDULE 40 ABS	SOLVENT
NOTES:	ALL PIPING MATERIAL AND JOINING METHODS CONTINGENT ON AUTHORITY HAVING JURISDICTION APPROVAL. ALL ABS AND PVC PIPING EXPOSED TO SUNLIGHT SHALL BE PROTECTED BY WATER-BASED LATEX PAINT. ALL BLACK STEEL PIPING EXPOSED TO MOISTURE SHALL BE PROTECTED BY RUST-PREVENTATIVE PAINT. ALL PVC PIPING MUST MEET FLAME SPREAD ASTM E84 CERTIFICATION. NO EXCEPTIONS. PLENUM RETURN UTILIZED IN PROJECT, AND THUS ALL PIPING MUST MEET THAT WITHIN PLENUM SPACE. IF PIPING IS NOT RATED, THEN CONTRACTOR TO CARRY COST TO INSULATE ALL PIPING WITH FIRE WRAP INSULATION TO MEET THE ASTM E84 REQUIREMENT BY CODE.				

PLUMBING ABBREVIATIONS:

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BP	BOOSTER PUMP
BTUH	BTU(S) PER HOUR
BV	BALANCING VALVE
CO2	CARBON DIOXIDE
CPVC	CHLORINATED PVC
CW	COLD WATER
CWFU	COLD WATER FIXTURE UNITS
CWR	COLD WATER RETURN
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DS	DOWNSPOUT
DW	DISH WASHER
ES	EMERGENCY SHOWER
EVAC	WASTE ANESTHETIC GAS DISPOSAL
EW	EMERGENCY EYE WASH
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FRS	FLUSHING RIM SINK
FS	FLOOR SINK
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HS	HAND SINK
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNITS
HWR	HOT WATER RETURN
IWP	INDIRECT WASTE PIPE
KS	KITCHEN SINK
LA	LAB AIR
LAV	LAVATORY
LV	LABATORY VACUUM
MB	MOP BASIN
MBH	BTU PER HOUR (THOUSAND)
MV	MIXING VALVE
N	NITROGEN
NCP	NITROGEN CONTROL PANEL
ND	NOZZLE DRAIN
NG	NATURAL GAS
NO	NITROUS OXIDE
NPT	NATIONAL PIPE THREAD TAPERED
O	OXYGEN
PEX	CROSS LINKED POLYETHYLENE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PVC	POLYVINYL CHLORIDE
PW	PURE WATER
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
S	SINK
SD	SHOWER DRAIN
SE	SEWAGE EJECTOR
SFU	SUPPLY FIXTURE UNIT
SH	SHOWER
SP	SUMP PUMP
SPR	STANDPIPE RECEPTOR
SS	SERVICE SINK
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
VA	VACUUM
W	WASTE PIPE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WS	WATER SOFTENER
YCO	YARD CLEANOUT

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AVG	AVERAGE
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DEG-F, °F	DEGREES FAHRENHEIT
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
DP	DRY PENDENT SPRINKLER
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HH	HIGH HEAT SPRINKLER
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IE	INVERT ELEVATION
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING CONTRACTOR
RM	ROOM
RQD	REQUIRED
SF	SQUARE FEET
SPEC	SPECIFICATION(S)
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

PLUMBING FITTINGS:

- 45° ELBOW
- CAP
- 90° ELBOW
- ELBOW DOWN
- ELBOW UP
- P TRAP
- TEE
- TEE DOWN
- TEE UP
- LATERAL
- UNION
- FLEXIBLE CONNECTION
- PIPE CONTINUATION
- CLEANOUT (CO)
- FLOOR CLEANOUT (FCO)
- WALL CLEANOUT (WCO)
- FLOOR SINK
- DRAIN
  - XX DENOTES THE FOLLOWING
  - (AD) AREA DRAIN
  - (FD) FLOOR DRAIN
  - (HD) HUB DRAIN
  - (RD) ROOF DRAIN

PLUMBING VALVES:

- SOLENOID VALVE
- MODULATING 2-WAY VALVE
- MODULATING 3-WAY VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- MIXING VALVE
- FLOAT OPERATED VALVE
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- SAFETY RELIEF VALVE
- DOUBLE CHECK VALVE ASSEMBLY
- RPZ REDUCED PRESSURE ZONE VALVE (RPZ)
- DUAL CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT

PLUMBING SPECIALTIES:

- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- PRESSURE GAUGE
- PS PRESSURE SWITCH
- THERMOMETER
- STRAINER, BLOW DOWN
- STRAINER
- EXPANSION LOOP
- EXPANSION JOINT
- WATER HAMMER ARRESTER
- AQUASTAT
- HOSE BIBB/ WALL HYDRANT
- TRAP PRIMER
- VB VACUUM BREAKER
- SPV SPILL PROOF VACUUM BREAKER

PIPE SYSTEM LINETYPES:

- PIPING OR EQUIPMENT TO BE REMOVED
- PIPING OR EQUIPMENT TO REMAIN
- IWP — INDIRECT WASTE PIPE (IWP)
- GRS — GREY WASTE (GRS)
- GR — GREASE WASTE (GR)
- CV — CLEAR WATER VENT (CV)
- AV — ACID VENT (AV)
- AW — ACID WASTE (AW)
- DT — SUB-SOIL DRAINAGE (DT)
- IRRG — IRRIGATION (IRRIG)
- GRW — GREY WATER (GRW)
- CA — COMPRESSED AIR (CA)
- CW(CITY) — CITY COLD WATER (CW(CITY))
- COLD WATER DOMESTIC (CW)
- CWR — COLD WATER RETURN (CWR)
- SCW — SOFT COLD WATER (SCW)
- GW — GARAGE WASTE (GW)
- HOT WATER DOMESTIC (HW)
- HWR — HOT WATER DOMESTIC RETURN (HWR)
- NG — NATURAL GAS (NG)
- NPCW — NON-POTABLE COLD WATER (NPCW)
- OV — OIL VENT (OV)
- PD — PUMP DISCHARGE (PD)
- PW — PURE WATER (PW)
- SAN — SANITARY (SAN)
- ST — STORM (ST)
- STO — STORM OVERFLOW (STO)
- UNDERGROUND PIPING
- V — VENT (V)

PLUMBING EQUIPMENT:

- SE SEWAGE EJECTOR (SE)
- BOOSTER PUMP (BP)
- GAS FIRED WATER HEATER - EXTERNAL STORAGE (GWH)
- GAS FIRED WATER HEATER - INTERNAL STORAGE (GWH)
- ELECTRIC WATER HEATER - INTERNAL STORAGE (EWH)
- GAS FIRED WATER HEATER - TANKLESS (GWH)
- M WATER METER
- SEPARATOR/ INTERCEPTOR (SEE SCHEDULE FOR ABBREVIATION)
- RECIRCULATION PUMP
- EXPANSION TANK (ET)
- SUMP PUMP (SP)
- BACK WATER VALVE (BW)

PLUMBING TAGS:

- MARK / X / X / NUMBER — PLUMBING EQUIPMENT TAG
- RISER / X / NUMBER — RISER TAG
- PIPE SIZE / ## XX / SYSTEM ABBREVIATION — PIPE DIMENSION TAG
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION
- VIEW NUMBER / REFERENCE / X / X / SHEET NUMBER — REFERENCE TAG

GENERAL NOTES:

1. THE FOLLOWING NOTES APPLY TO THE FULL SET OF PLUMBING DRAWINGS AND SPECIFICATIONS INCLUDING ADDENDA, CHANGES ORDERS, BULLETINS AND ARCHITECTURAL SUPPLEMENTARY INSTRUCTIONS.
2. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK. FURTHER DETAIL OF THE WORK THAT IS REQUIRED FOR A COMPLETE INSTALLATION, WHICH IS NOT SHOWN BECAUSE OF DRAWING SCALE, SHALL BE INCLUDED IN BASE BID.
3. FOR ADDITIONAL DETAILS, CONSULT THE ARCHITECTURAL DRAWINGS, OTHER ENGINEERING DRAWINGS, OWNER FURNISHED DRAWINGS AND OTHER OWNER FURNISHED DOCUMENTATION.
4. ALL PERMITS, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR THE WORK SHALL BE INCLUDED IN THE BASE BID. THIS INCLUDES PLAN REVIEW FEE FOR ALL BACKFLOW PREVENTERS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PLUMBING WORK WITH THE WORK OF OTHER TRADES. PROVIDE OFFSETS TO ALL PIPING AS REQUIRED WHETHER SHOWN OR NOT.
6. ALL WORK SHALL BE IN ACCORDANCE WITH 2014 ILLINOIS PLUMBING CODE . THIS CODE SHALL BE FOLLOWED AS A MINIMUM . HIGHER GRADES OF MATERIAL AND WORKMANSHIP SHALL BE PROVIDED WHERE REQUIRED.
7. PROVIDE HOLES, SLEEVES, FIRE STOPPING AND PATCHING FOR THE INSTALLATION OF THE PLUMBING WORK.
8. ALL WALLS AND ROOF ENCLOSING INDICATED AS STORM SHELTER TO BE STORM SHELTER RATED WALLS PER ICC-500, 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (RECTANGULAR) OR 2-1/2 INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. P.C. IS RESPONSIBLE TO INSTALL PIPE/ PIPE PENETRATIONS PER STRUCTURAL PLANS. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
9. MANUFACTURER AND PRODUCT SELECTION: THE DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, AND DIMENSIONAL REQUIREMENTS OF MATERIAL AND SPECIFIC PRODUCTS. MANUFACTURERS OF PRODUCTS HAVING EQUIVALENT PERFORMANCE CHARACTERISTICS HAVE BEEN LISTED IN THE SPECIFICATION. THE USE OF ANY OF THE EQUIVALENT PRODUCTS SHALL REQUIRE THAT THE CONTRACTOR IDENTIFY MODIFICATIONS TO ACCOMMODATE VARIATIONS IN CHARACTERISTICS, SUCH AS WEIGHTS, CONNECTIONS, SIZES, AND DIMENSIONS. THE RESPONSIBILITY FOR MODIFICATIONS TO MECHANICAL, STRUCTURAL, ELECTRICAL, OR OTHER PLUMBING SYSTEMS, OR TO ACCOMMODATE CODES SHALL BE WITH THE CONTRACTOR. COSTS RESULTING FROM THE USE OF THESE EQUIVALENT PRODUCTS SHALL BE INCLUDED IN THE BASE BID.
10. PROVIDE LEVEL 1 GAS SYSTEM FOR NEW WORK AS SHOWN. COMPLY WITH INTERNATIONAL FUEL AND GAS CODE 2021. SPECIFICATIONS. PROVIDE COMPLYING MATERIAL AND LISTED ALARM PANELS, STATION OUTLETS AND STATION INLETS.

PLUMBING INSULATION NOTES:

DOMESTIC COLD WATER ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION. ½" THICK, WITH VAPOR BARRIER JACKET.

DOMESTIC HOT WATER-ABOVE GRADE: LIGHT DENSITY , FIBERGLASS PIPE INSULATION, 1" THICK, WITH GLASS CLOTH JACKET.

STORM AND OVERFLOW PIPES TO BE INSULATED WITH 1" THICK INSULATION.

AT CONTRACTOR'S OPTION FIBERGLASS SNAP ON INSULATION WITH FOAM VAPOR BARRIER MAY BE SUBSTITUTED FOR ABOVE.

PIPING TO BE INSULATED ACCORDING TO 2021 INTERNATIONAL ENERGY CONSERVATION CODE. ANY NEW WATER PIPING SHALL BE INSULATED TO A MINIMUM OF R-3.

RENOVATION LEGEND:

<X>	EXISTING FIXTURE TO REMAIN
<XRR>	EXISTING FIXTURE TO BE REMOVED AND RELOCATED
<XD>	EXISTING FIXTURE TO BE REMOVED
<XNL>	EXISTING FIXTURE IN NEW LOCATION
<N>	NEW

GENERAL:

- ## DRAWING KEYNOTE SYMBOL
- DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY
- DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT
- +X" - X" MOUNTING HEIGHT DESIGNATION

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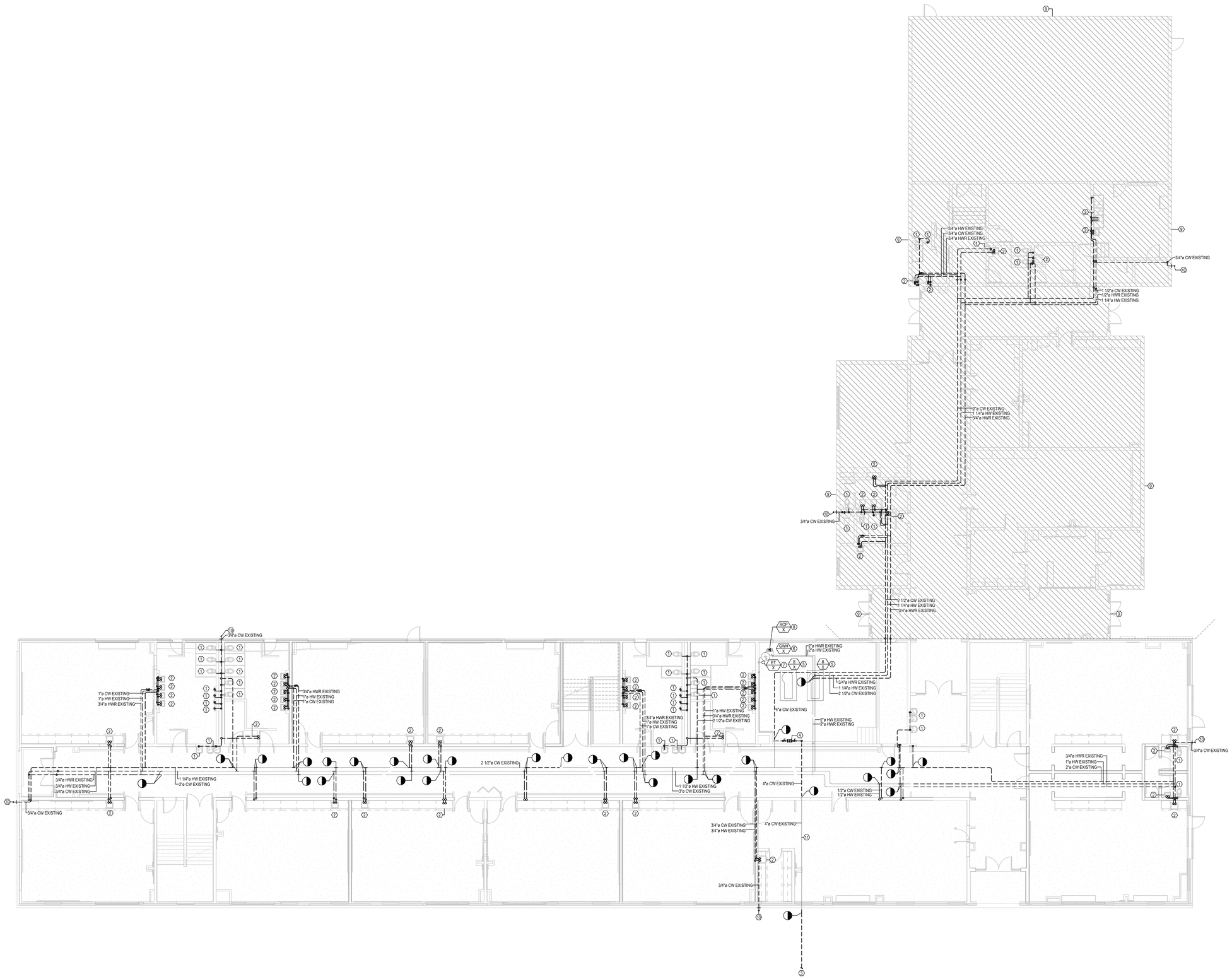
REVIEWED BY	RK

PLUMBING LEGEND

P-000
BIDDING



GENERAL NOTES:

1. REFERENCE P000 FOR ADDITIONAL PROJECT PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS.
2. ALL PIPING SHOWN THIN, FULL TONE LINES IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
3. ALL PIPING SHOWN WITH DARK, DASHED LINE IS TO BE REMOVED, UNLESS NOTED OTHERWISE.
4. CAP/PLUG ALL PIPING, WHICH IS BEING ABANDONED OR WHICH IS NOT BEING EXTENDED UNDER NEW WORK, BELOW SLAB OR IN WALL CAVITY.
5. ANY EXISTING PIPING NOTED FOR REMOVAL WHICH IS CONCEALED IN AN EXISTING WALL WHICH IS TO REMAIN, SHALL BE ABANDONED IN PLACE AND CAPPED AT BOTH ENDS.
6. CONTRACTOR SHALL REMOVE PLUMBING PIPING IN A MANNER TO ENSURE NO DEAD LEGS REMAIN AND NO EXISTING PLUMBING FIXTURES TO REMAIN ARE ADVERSELY AFFECTED.
7. CONTRACTOR IS RESPONSIBLE TO SAWCUT AND REMOVE SLAB AND EXCAVATE AS REQUIRED FOR DEMOLITION OF EXISTING PLUMBING PIPING AND INSTALLATION OF NEW BELOW SLAB PIPING.
8. EXISTING ABANDONED PIPE UNDER SLAB TO BE FILLED WITH CONCRETE.

 # KEYNOTES

1 EXISTING PLUMBING FIXTURE AND CORRESPONDING CW , SAN, AND VENT LINES TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
2 EXISTING PLUMBING FIXTURE AND CORRESPONDING CW , HW, HWR, SAN, AND VENT LINES TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
3 EXISTING 4" CW LINE TO BE DEMOLISHED BACK TO MAIN.
4 EXISTING WATER METER ASSEMBLY TO BE DEMOLISHED.
5 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
6 EXISTING GAS WATER HEATER (GWH-X) TO REMAIN.
7 EXISTING EXPANSION TANK ET-X TO REMAIN.
8 EXISTING RECIRCULATION PUMP RCP-X TO REMAIN.
9 HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED IN ITS ENTIRETY NORTH OF THIS LINE. DEMOLISH ALL PIPING, VALVES AND FIXTURES IN THIS AREA. DEMOLISH WATER/ SANITARY MAINS BACK TO DEMOLITION SYMBOLS. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.
10 EXISTING HOSE BIB AND CORRESPONDING CW LINE TO BE DEMOLISHED.
11 EXISTING PIPE UNDER SLAB TO BE ABANDONED. PIPE TO BE CUT AND CAPPED AT DEMOLITION POINT.

1 PD-101 PLUMBING DEMOLITION FIRST FLOOR PLAN
1/8" = 1'-0"

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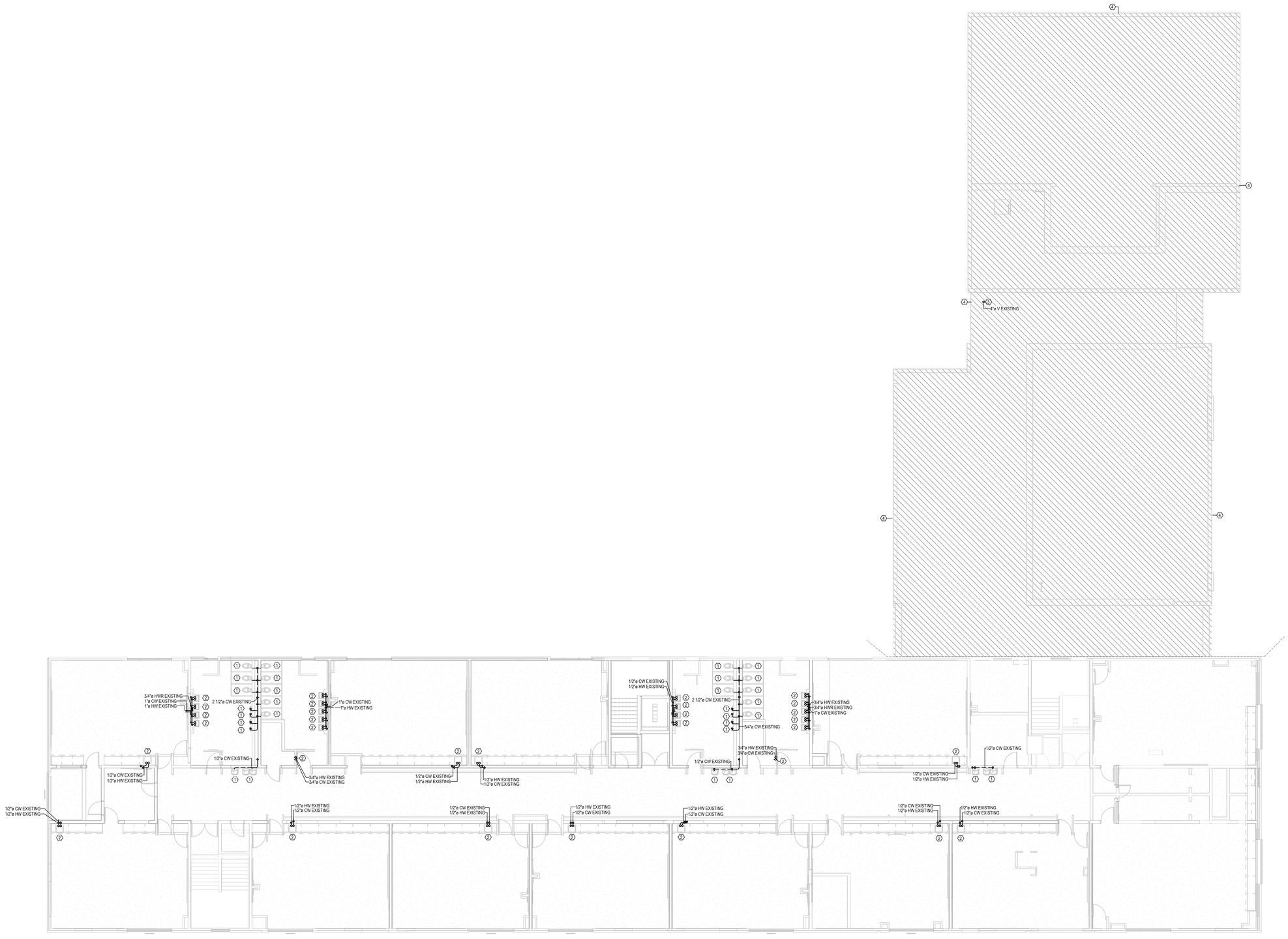
REVIEWED BY	RK

PLUMBING DEMOLITION FIRST FLOOR DOMESTIC WATER PLAN

PD-101

BIDDING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1 PD-103 PLUMBING DEMOLITION ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE P000 FOR ADDITIONAL PROJECT PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS.
2. ALL PIPING SHOWN THIN, FULL TONE LINES IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
3. ALL PIPING SHOWN WITH DARK, DASHED LINE IS TO BE REMOVED, UNLESS NOTED OTHERWISE.
4. CAP/PLUG ALL PIPING, WHICH IS BEING ABANDONED OR WHICH IS NOT BEING EXTENDED UNDER NEW WORK, BELOW SLAB OR IN WALL CAVITY.
5. ANY EXISTING PIPING NOTED FOR REMOVAL WHICH IS CONCEALED IN AN EXISTING WALL WHICH IS TO REMAIN, SHALL BE ABANDONED IN PLACE AND CAPPED AT BOTH ENDS.
6. CONTRACTOR SHALL REMOVE PLUMBING PIPING IN A MANNER TO ENSURE NO DEAD LEGS REMAIN AND NO EXISTING PLUMBING FIXTURES TO REMAIN ARE ADVERSELY AFFECTED.
7. CONTRACTOR IS RESPONSIBLE TO SAWCUT AND REMOVE SLAB AND EXCAVATE AS REQUIRED FOR DEMOLITION OF EXISTING PLUMBING PIPING AND INSTALLATION OF NEW BELOW SLAB PIPING.
8. EXISTING ABANDONED PIPE UNDER SLAB TO BE FILLED WITH CONCRETE.

 # KEYNOTES

1 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
2 EXISITNG ROOF DRAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY EXACT RISER LOCATION.
3 EXISTING ROOF DRAIN TO BE DEMOLISHED.
4 EXISTING VENT TO ROOF TO BE DEMOLISHED. PATCH ROOF TO MATCH EXISTING.
5 EXISTING VENT TO ROOF TO BE DEMOLISHED.
6 EXISTING VENT TO ROOF TO REMAIN.
7 HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED IN ITS ENTIRETY NORTH OF THIS LINE. DEMOLISH ALL PIPING, VALVES AND FIXTURES IN THIS AREA. DEMOLISH WATER/ SANITARY MAINS BACK TO DEMOLITION SYMBOLS. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.

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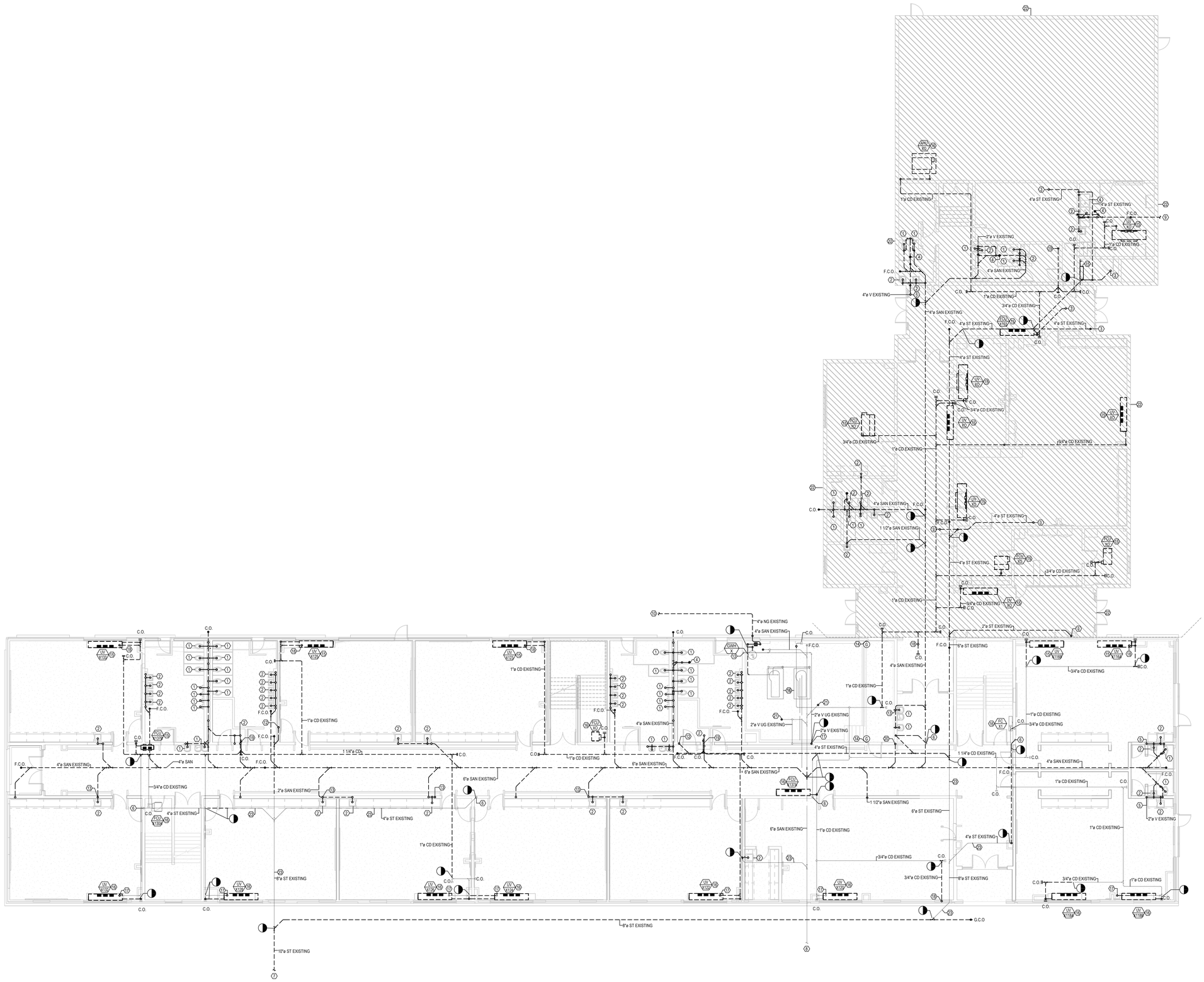
PLUMBING DEMOLITION ROOF PLAN

PD-103

BIDDING



1 PD-201 — PLUMBING DEMOLITION FIRST FLOOR SANITARY AND VENT PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE P000 FOR ADDITIONAL PROJECT PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS.
2. ALL PIPING SHOWN THIN, FULL TONE LINES IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
3. ALL PIPING SHOWN WITH DARK, DASHED LINE IS TO BE REMOVED, UNLESS NOTED OTHERWISE.
4. CAP/PLUG ALL PIPING, WHICH IS BEING ABANDONED OR WHICH IS NOT BEING EXTENDED UNDER NEW WORK, BELOW SLAB OR IN WALL CAVITY.
5. ANY EXISTING PIPING NOTED FOR REMOVAL WHICH IS CONCEALED IN AN EXISTING WALL WHICH IS TO REMAIN, SHALL BE ABANDONED IN PLACE AND CAPPED AT BOTH ENDS.
6. CONTRACTOR SHALL REMOVE PLUMBING PIPING IN A MANNER TO ENSURE NO DEAD LEGS REMAIN AND NO EXISTING PLUMBING FIXTURES TO REMAIN ARE ADVERSELY AFFECTED.
7. CONTRACTOR IS RESPONSIBLE TO SAWCUT AND REMOVE SLAB AND EXCAVATE AS REQUIRED FOR DEMOLITION OF EXISTING PLUMBING PIPING AND INSTALLATION OF NEW BELOW SLAB PIPING.
8. EXISTING ABANDONED PIPE UNDER SLAB TO BE FILLED WITH CONCRETE

 # KEYNOTES

1 EXISTING PLUMBING FIXTURE AND CORRESPONDING CW , SAN, AND VENT LINES TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
2 EXISTING PLUMBING FIXTURE AND CORRESPONDING CW , HW, HWR, SAN, AND VENT LINES TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
3 EXISTING STORM LINE TO CONTINUE DOWN FROM ROOF DRAIN ON ROOF. SEE SHEET PD-103 FOR MORE INFORMATION.
4 EXISTING PLUMBING FIXTURE AND CORRESPONDING PIPING TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
5 EXISTING VENT TO CONTINUE TO ROOF. SEE SHEET PD-103 FOR MORE INFORMATION.
6 EXISTING STORM LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET PD-102 FOR MORE INFORMATION.
7 EXISTING 10" STORM LINE TO BE DEMOLISHED BACK TO CITY MAIN.
8 EXISTING 6" SAN LINE TO CITY MAIN TO REMAIN.
9 EXISTING 4" SAN LINE TO CITY MAIN TO BE DEMOLISHED.
10 EXISTING 4" GAS LINE TO BE DEMOLISHED BACK TO CITY MAIN.
11 EXISTING 2" VENT RISER TO BE DEMOLISHED. CONTRACTOR TO FIELD VERIFY RISER LOCATION BEFORE DEMOLITION.
12 EXISTING 4" STORM RISER DOWN FROM SECOND FLOOR TO BE DEMOLISHED BACK TO MAIN. SEE SHEET PD-102 FOR MORE INFORMATION.
13 EXISTING VENT TO CONTINUE UP TO SECOND FLOOR. SEE SHEET PD-102 FOR MORE INFORMATION.
14 EXISTING GAS SHUT OFF BUTTON TO REMAIN.
15 CONDENSATE LINE FOR CORRESPONDING MECHANICAL EQUIPMENT TO BE DEMOLISHED BACK TO BUILDING MAIN. MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
16 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
17 EXISTING 3/4" CD LINE TO REMAIN AND CONTINUE DOWN FROM MECHANICAL EQUIPMENT ON SECOND FLOOR. SEE SHEET PD-102 FOR MORE INFORMATION.
18 EXISTING 3/4" CD RISER DOWN FROM SECOND FLOOR TO BE DEMOLISHED BACK TO MAIN. SEE SHEET PD-102C FOR MORE INFORMATION.
19 EXISTING CONDENSATE LINE DISCHARGED INTO MOP BASIN TO BE DEMOLISHED BACK TO BUILDING MAIN.
20 EXISTING 2" SANITARY LINE DOWN FROM SECOND FLOOR TO BE DEMOLISHED. SEE SHEET PD-202 FOR MORE INFORMATION.
21 EXISTING PLUMBING FIXTURE AND CORRESPONDING SANITARY AND VENT LINES TO REMAIN.
22 HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED IN ITS ENTIRETY NORTH OF THIS LINE. DEMOLISH ALL PIPING, VALVES AND FIXTURES IN THIS AREA. DEMOLISH WATER/ SANITARY MAINS BACK TO DEMOLITION SYMBOLS. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.
23 EXISTING PIPE UNDER SLAB TO BE ABANDONED. PIPE TO BE CUT AND CAPPED AT DEMOLITION POINT.

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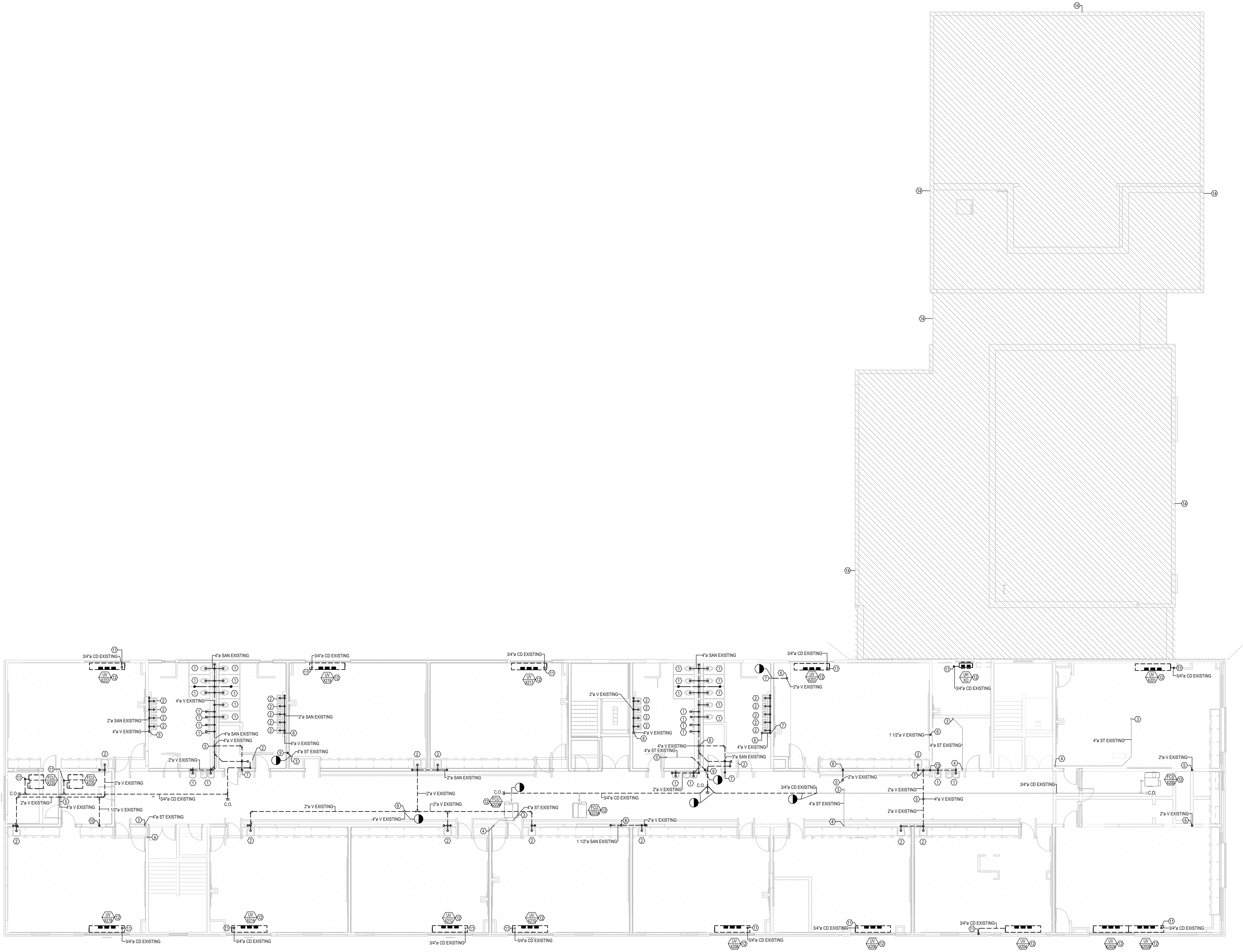
REVIEWED BY	RK

PLUMBING DEMOLITION FIRST FLOOR SANITARY AND VENT PLAN

PD-201

BIDDING



1 PD-202 PLUMBING DEMOLITION SECOND FLOOR SANITARY AND VENT PLAN
1/8" = 1'-0"



GENERAL NOTES:

1. REFERENCE P000 FOR ADDITIONAL PROJECT PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS.
2. ALL PIPING SHOWN THIN, FULL TONE LINES IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
3. ALL PIPING SHOWN WITH DARK, DASHED LINE IS TO BE REMOVED, UNLESS NOTED OTHERWISE.
4. CAP/PLUG ALL PIPING, WHICH IS BEING ABANDONED OR WHICH IS NOT BEING EXTENDED UNDER NEW WORK, BELOW SLAB OR IN WALL CAVITY.
5. ANY EXISTING PIPING NOTED FOR REMOVAL WHICH IS CONCEALED IN AN EXISTING WALL WHICH IS TO REMAIN, SHALL BE ABANDONED IN PLACE AND CAPPED AT BOTH ENDS.
6. CONTRACTOR SHALL REMOVE PLUMBING PIPING IN A MANNER TO ENSURE NO DEAD LEGS REMAIN AND NO EXISTING PLUMBING FIXTURES TO REMAIN ARE ADVERSELY AFFECTED.
7. CONTRACTOR IS RESPONSIBLE TO SAWCUT AND REMOVE SLAB AND EXCAVATE AS REQUIRED FOR DEMOLITION OF EXISTING PLUMBING PIPING AND INSTALLATION OF NEW BELOW SLAB PIPING.
8. EXISTING ABANDONED PIPE UNDER SLAB TO BE FILLED WITH CONCRETE.

#	KEYNOTES
1	EXISTING PLUMBING FIXTURE AND CORRESPONDING CW AND SAN LINES TO BE DEMOLISHED BACK TO FIRST FLOOR MAINS. SEE SHEET PD-101 FOR MORE INFORMATION.
2	EXISTING PLUMBING FIXTURE AND CORRESPONDING CW , HW, HWR, SAN AND VENT LINES TO BE DEMOLISHED BACK TO FIRST FLOOR MAINS. SEE SHEET PD-101.
3	EXISTING STORM LINE TO CONTINUE DOWN FROM ROOF DRAIN ON ROOF. SEE SHEET PD-103 FOR MORE INFORMATION.
4	EXISTING STORM LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET PD-101 FOR MORE INFORMATION.
5	EXISTING VENT TO ROOF TO BE DEMOLISHED. SEE SHEET PD-103 FOR MORE INFORMATION.
6	EXISTING VENT TO CONTINUE TO ROOF. SEE SHEET PD-103 FOR MORE INFORMATION.
7	EXISTING VENT TO CONTINUE UP FROM FIRST FLOOR. SEE PD-101 FOR MORE INFORMATION.
8	EXISTING 2" VENT RISER TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL IN FIRST FLOOR. CONTRACTOR TO FIELD VERIFY RISER LOCATION BEFORE START OF NEW WORK.
9	EXISTING 4" STORM RISER TO BE DEMOLISHED DOWN TO FIRST FLOOR MAIN. SEE SHEET PD-101 FOR MORE INFORMATION.
10	EXISTING 1-1/2" VENT UP FROM FIRST FLOOR TO BE DEMOLOSHED.
11	CONDENSATE LINE FOR CORRESPONDING MECHANICAL EQUIPMENT TO BE DEMOLSIHED BACK TO BUILDING MAIN. MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
12	MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
13	EXISTING 2" SANITARY LINE DOWN TO FIRST FLOOR TO BE DEMOLISHED BACK TO MAIN. SEE SHEET P-201 FOR MORE INFORMATION.
14	HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED IN ITS ENTIRETY NORTH OF THIS LINE. DEMOLISH ALL PIPING, VALVES AND FIXTURES IN THIS AREA. DEMOLISH WATER/ SANITARY MAINS BACK TO DEMOLITION SYMBOLS. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.

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DATE

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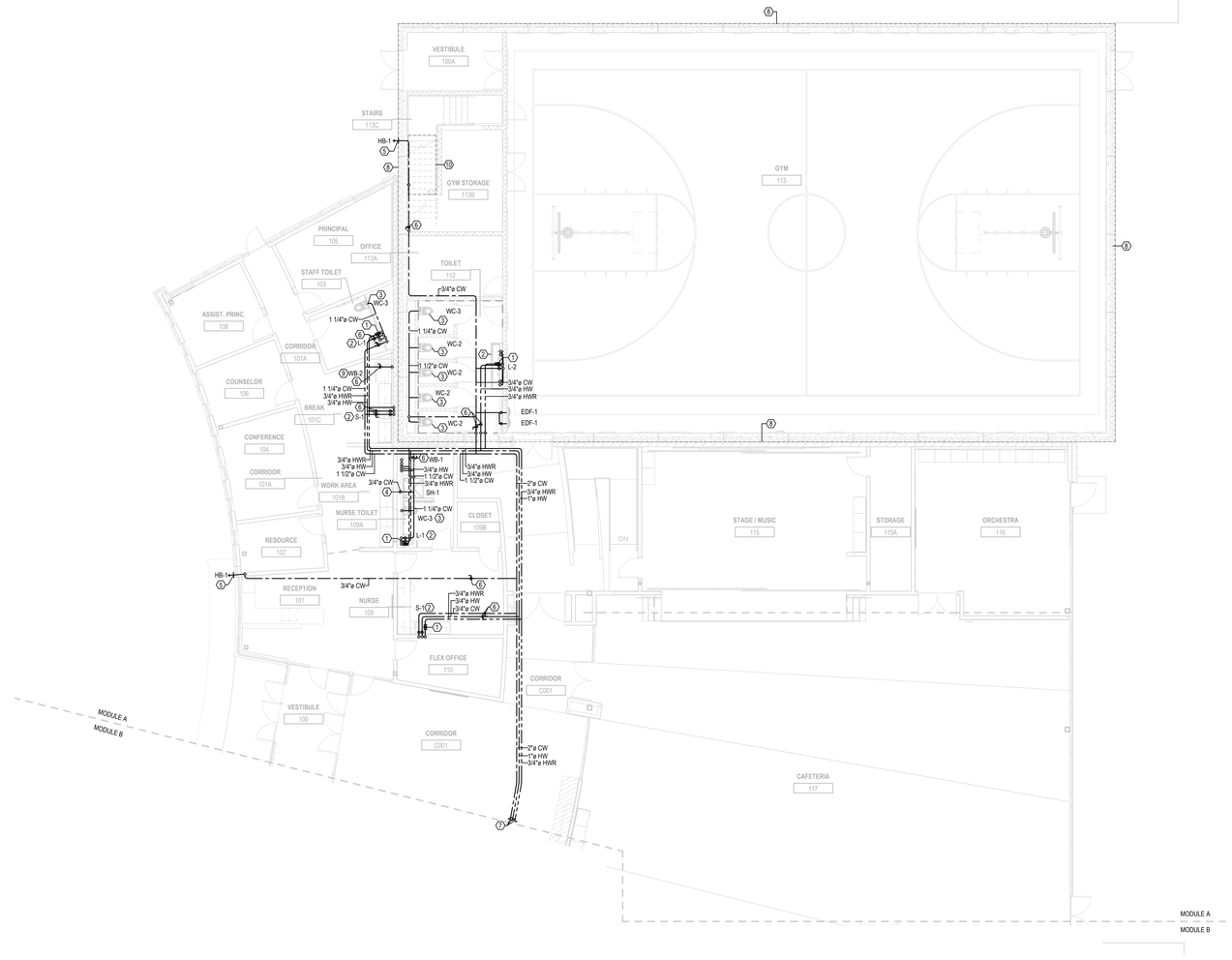
REVIEWED BY RK

PLUMBING DEMOLITION SECOND FLOOR SANITARY AND VENT PLAN

PD-202

BIDDING



1 / P-101A PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MODULE A

1/8" = 1'-0"

N

GENERAL NOTES:

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2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

#	KEYNOTES
1	BALANCING VALVE TO BE INSTALLED ON HWR LINE PRIOR TO CONNECTION TO HW LINE
2	PROVIDE WITH A.S.S.E. 1070 APPROVED TMV TO SUPPLY MAXIMUM OF 110 DEGREE HOT WATER ON PUBLIC LAVATORIES/SINKS/SHOWERS TO ENSURE SCOLDING DOES NOT OCCUR.
3	PROVIDE WATER HAMMER ARRESTOR TO FLUSH VALVE FIXTURE TO ABSORB SHOCK DURING FLUSHING.
4	NEW 3/4" CW LINE TO CONTINUE UP TO ROOF HYDRANT ON ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
5	NEW HOSE BIB HB-1 TO BE INSTALLED 42" A.F.F. REFER TO ARCHITECT DRAWINGS FOR MORE INFORMATION.
6	DOMESTIC SHUT OFF VALVE.
7	NEW 2" CW, 1" HW AND 3/4" HWR LINE TO CONTINNUE FROM MODULE B. SEE SHEET P-101B FOR MORE INFORMATION.
8	DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALLS AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALLS PER ICC-500 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (RECTANGULAR) OR 2-1/2" INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. PC IS RESPONSIBLE TO INSTALL PIPE / PIPE PENETRATIONS PER STRUCTURAL PLANS. REFERENCE DETAILS 1 AND 2 / S-504.
9	NEW 3/4" CW LINE TO REF-1. TO BE PROVIDED WITH WATER VALVE WALL BOX AND BACKFLOW PREVENTOR. WALL BOX TO BE OATEY 12K OR SIMILAR. BACKFLOW PREVENTOR TO BE WATTS SERIES LF7R 3/4" VALVE OR SIMILAR.
10	NEW 3/4" CW LINE TO RUN UNDER STAIRS IN THIS AREA.

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REVIEWED BY	RK

PLUMBING FIRST FLOOR DOMESTIC - MODULE A

P-101A

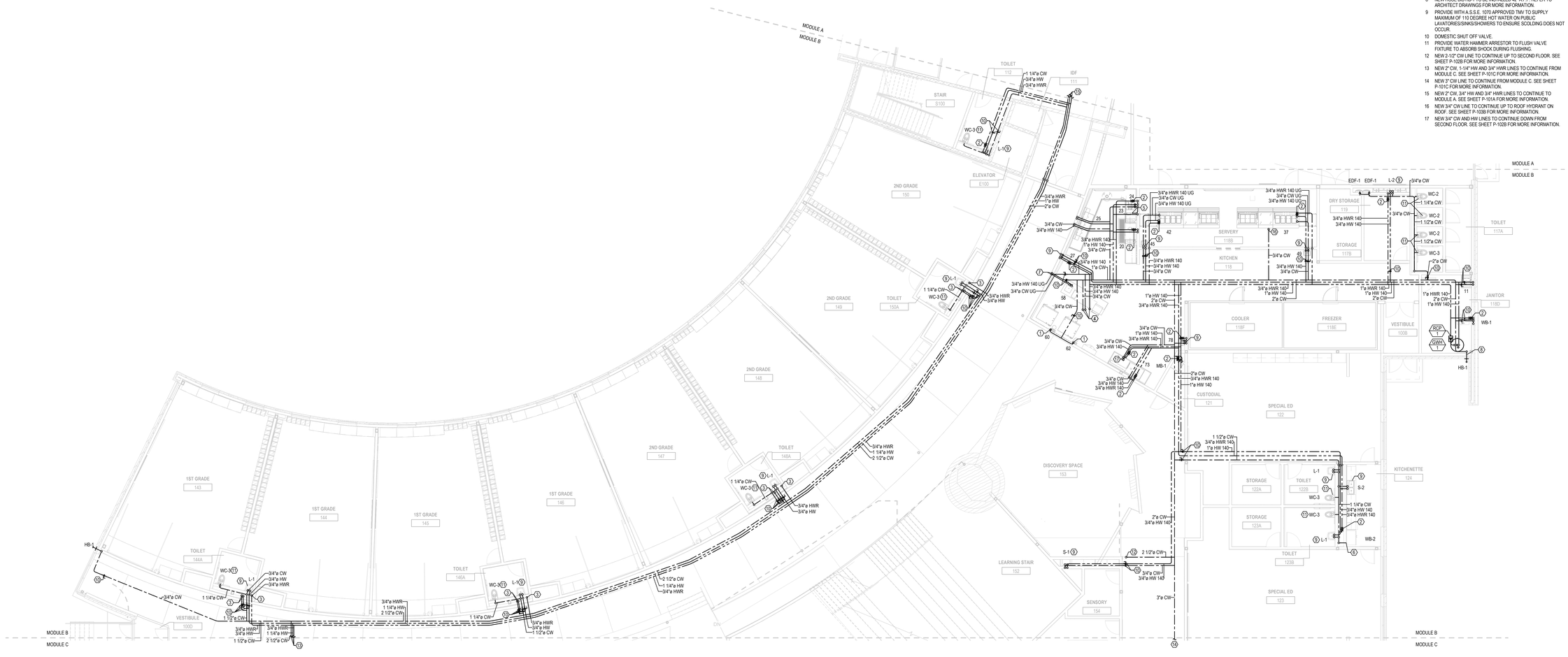
BIDDING

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD, AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 NEW 3/4" CW LINE TO CONNECT TO WATER FILTER. CW LINE TO EXTEND TO OVEN STEAMER. PROVIDE BACKFLOW PREVENTOR. BACKFLOW TO BE WATTS SERIES LF7R 3/4" VALVE OR SIMILAR.
2 BALANCING VALVE TO BE INSTALLED ON HWR LINE PRIOR TO CONNECTION TO HW LINE.
3 NEW 1-1/4" CW TO AND 3/4" HW LINES TO CONTINUE UP TO SECOND FLOOR AND 3/4" HWR LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-102B FOR MORE INFORMATION.
4 NEW 3/4" CW, HW AND HWR LINES TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-102B FOR MORE INFORMATION.
5 NEW 3/4" CW AND HW LINE TO CONNECT TO HOSE REEL UNDER COUNTERTOP.
6 NEW 3/4" CW LINE TO REF-1. TO BE PROVIDED WITH WATER VALVE WALL BOX AND BACKFLOW PREVENTOR. WALL BOX TO BE OATEY 12K OR SIMILAR. BACKFLOW PREVENTOR TO BE WATTS SERIES LF7R 3/4" VALVE OR SIMILAR.
7 NEW 3/4" CW AND 3/4" HW LINES TO CONTINUE UNDERGROUND FROM ISLAND SINK. DOMESTIC LINES TO CONNECT TO BUILDING MAINS ABOVE CEILING.
8 NEW HOSE BIB HB-1 TO BE INSTALLED 42" A.F.F. REFER TO ARCHITECT DRAWINGS FOR MORE INFORMATION.
9 PROVIDE WITH A.S.S.E. 1070 APPROVED TMV TO SUPPLY MAXIMUM OF 110 DEGREE HOT WATER ON PUBLIC LAVATORIES/SINKS/SHOWERS TO ENSURE SCOLDING DOES NOT OCCUR.
10 DOMESTIC SHUT OFF VALVE.
11 PROVIDE WATER HAMMER ARRESTOR TO FLUSH VALVE FIXTURE TO ABSORB SHOCK DURING FLUSHING.
12 NEW 2-1/2" CW LINE TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-102B FOR MORE INFORMATION.
13 NEW 2" CW, 1-1/4" HW AND 3/4" HWR LINES TO CONTINUE FROM MODULE C. SEE SHEET P-101C FOR MORE INFORMATION.
14 NEW 3" CW LINE TO CONTINUE FROM MODULE C. SEE SHEET P-101C FOR MORE INFORMATION.
15 NEW 2" CW, 3/4" HW AND 3/4" HWR LINES TO CONTINUE TO MODULE A. SEE SHEET P-101A FOR MORE INFORMATION.
16 NEW 3/4" CW LINE TO CONTINUE UP TO ROOF HYDRANT ON ROOF. SEE SHEET P-102B FOR MORE INFORMATION.
17 NEW 3/4" CW AND HW LINES TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-102B FOR MORE INFORMATION.


MODULE A
MODULE B
MODULE C
TOILET 112
IDF 111
STAIR S100
ELEVATOR E100
2ND GRADE 150
2ND GRADE 149
TOILET 150A
2ND GRADE 148
2ND GRADE 147
TOILET 149A
1ST GRADE 143
1ST GRADE 144
1ST GRADE 145
1ST GRADE 146
TOILET 144A
TOILET 146A
VESTIBULE 100D
SERVERY 118B
KITCHEN 118
DRY STORAGE 119
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STORAGE 123A
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SPECIAL ED 123
LEARNING STAIR 152
SENSORY 154
WC-2
WC-3
WB-1
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MB-1
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3/4"e HW

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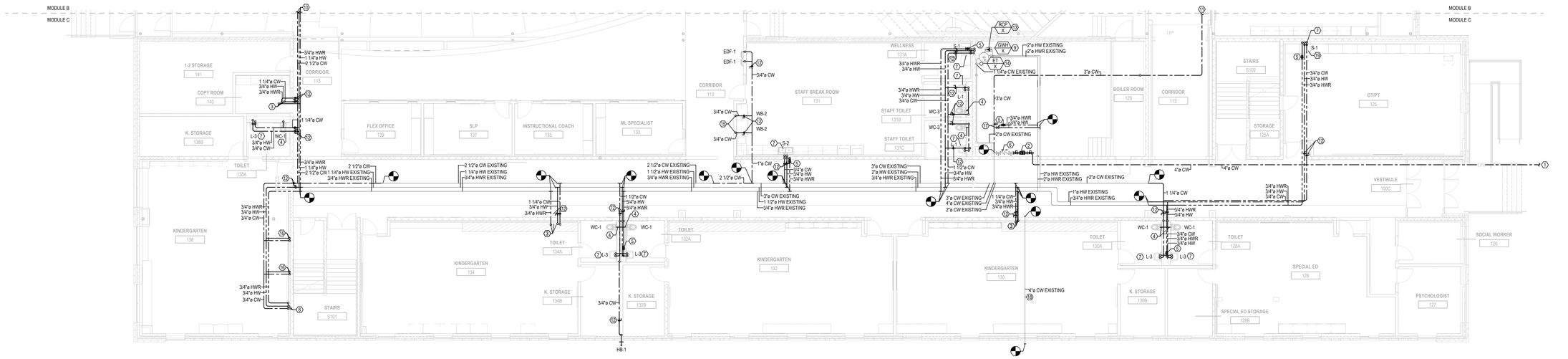
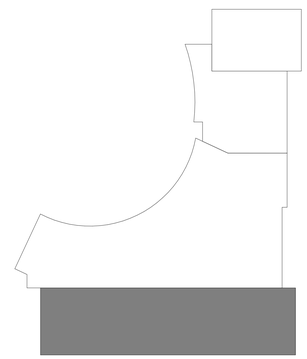
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

#	KEYNOTES
1	NEW 4" CW LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT INVERT AND LOCATION WITH CIVIL PLANS.
2	NEW 4" DOMESTIC WATER ASSEMBLY
3	NEW 1-1/4" CW TO AND 3/4" HW LINES TO CONTINUE UP TO SECOND FLOOR AND 3/4" HWR LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-102C FOR MORE INFORMATION.
4	PROVIDE WATER HAMMER ARRESTOR TO FLUSH VALVE FIXTURE TO ABSORB SHOCK DURING FLUSHING.
5	BALANCING VALVE TO BE INSTALLED ON HWR LINE PRIOR TO CONNECTION TO HW LINE.
6	NEW 4" DOMESTIC BACKFLOW PREVENTOR. BACKFLOW PREVENTOR TO DRAIN TO NEAREST FLOW DRAIN
7	PROVIDE WITH A.S.S.E. 1070 APPROVED TMV TO SUPPLY MAXIMUM OF 110 DEGREE HOT WATER ON PUBLIC LAVATORIES/SINKS/SHOWERS TO ENSURE SCOLDING DOES NOT OCCUR.
8	NEW 3/4" CW AND 3/4" HW, 3/4" HWR LINE TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-102C FOR MORE INFORMATION.
9	EXISTING GAS WATER HEATER GWH-X TO REMAIN.
10	NEW 2" CW, 1-1/4" HW AND 3/4" HWR LINES TO CONTINUE TO MODULE B. SEE SHEET P-101B FOR MORE INFORMATION.
11	NEW 3" CW LINE TO CONTINUE TO FEED MODULE B. SEE SHEET P-101B FOR MORE INFORMATION.
12	DOMESTIC SHUT OFF VALVE.
13	EXISTING RECIRCULATION PUMP RCP-X TO REMAIN.
14	EXISTING EXPANSION TANK ET-X TO REMAIN.
15	NEW 3/4" CW LINE TO REF-1. TO BE PROVIDED WITH WATER VALVE WALL BOX AND BACKFLOW PREVENTOR. WALL BOX TO BE OATEY 12K OR SIMILAR. BACKFLOW PREVENTOR TO BE WATTS SERIES LF7/ 3/4" VALVE OR SIMILAR.
16	NEW 3/4" CW AND 3/4" HW LINE TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-102C FOR MORE INFORMATION.
17	NEW 1-1/2" CW TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-102C FOR MORE INFORMATION.
18	EXISTING PIPE UNDER SLAB TO BE ABANDONED. PIPE TO BE CUT AND CAPPED AT NEW CONNECTION POINT.
19	NEW SINK TO BE INSTALLED IN THIS LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT.



1 P-101C — PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MODULE C
1/8" = 1'-0"



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REVIEWED BY	RK

PLUMBING FIRST FLOOR DOMESTIC - MODULE C

P-101C

BIDDING



GENERAL NOTES:

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4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

KEYNOTES

1 NEW 3/4" CW, HW LINE TO CONTINUE UP FROM FIRST FLOOR AND 3/4" HWR LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-101B FOR MORE INFORMATION.
2 PROVIDE WITH A.S.S.E. 1070 APPROVED TMV TO SUPPLY MAXIMUM OF 110 DEGREE HOT WATER ON PUBLIC LAVATORIES/SINKS/SHOWERS TO ENSURE SCOLDING DOES NOT OCCUR.
3 NEW 3/4" CW LINE TO BE RAN AS HIGH AS POSSIBLE IN THIS AREA AND CONTINUE UP TO ROOF HYDRANT ON ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
4 NEW 1-1/4" CW AND 3/4" HW LINE TO CONTINUE UP FROM FIRST FLOOR AND 3/4" HWR LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-101B.
5 BALANCING VALVE TO BE INSTALLED ON HWR LINE PRIOR TO CONNECTION TO HW LINE.
6 PROVIDE WATER HAMMER ARRESTOR TO FLUSH VALVE FIXTURE TO ABSORB SHOCK DURING FLUSHING.
7 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
8 NEW 2-1/2" CW LINE TO CONTINUE TO FEED BOILER SYSTEM. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
9 NEW 2-1/2" BACKFLOW PREVENTOR TO BE INSTALLED ON WATER LINE PRIOR TO CONNECTION TO BOILER SYSTEM.
10 DOMESTIC SHUT OFF VALVE.
11 NEW 3/4" CW, HW LINE TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-101B FOR MORE INFORMATION.
12 NEW 2-1/2" CW LINE TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-101B FOR MORE INFORMATION.
13 PLUMBING CHASE TO HAVE LOCKABLE ACCESS PANEL. COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT.

1 / P-102B — PLUMBING SECOND FLOOR DOMESTIC WATER PLAN - MODULE B
1/8" = 1'-0"

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REVIEWED BY	RK

PLUMBING SECOND FLOOR DOMESTIC WATER PLAN - MODULE B

P-102B

BIDDING

GENERAL NOTES:

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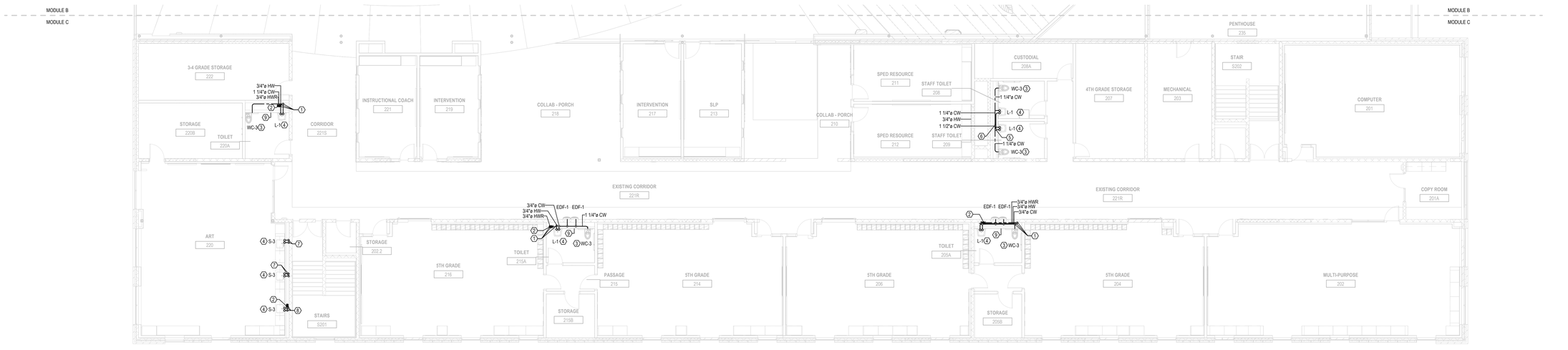
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

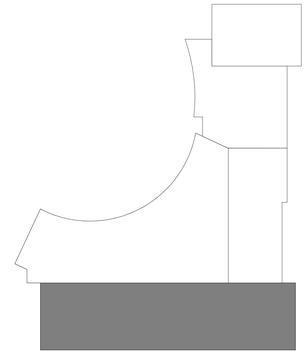
 # KEYNOTES

1. NEW 1-1/4" CW AND 3/4" HW LINE TO CONTINUE UP FROM FIRST FLOOR AND 3/4" HWR LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-101C.
2. BALANCING VALVE TO BE INSTALLED ON HWR LINE PRIOR TO CONNECTION TO HW LINE.
3. PROVIDE WATER HAMMER ARRESTOR TO FLUSH VALVE FIXTURE TO ABSORB SHOCK DURING FLUSHING.
4. PROVIDE WITH A.S.S.E. 1070 APPROVED TMV TO SUPPLY MAXIMUM OF 110 DEGREE HOT WATER ON PUBLIC LAVATORIES/SINKS/SHOWERS TO ENSURE SCOLDING DOES NOT OCCUR.
5. NEW 3/4" HW TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-101C FOR MORE INFORMATION.
6. NEW 1-1/2" CW TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-101C FOR MORE INFORMATION.
7. NEW 3/4" CW AND 3/4" HW LINES TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-101C FOR MORE INFORMATION.
8. NEW 3/4" CW, HW AND HWR TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-101C FOR MORE INFORMATION.
9. PLUMBING CHASE TO HAVE LOCKABLE ACCESS PANEL. COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT.



1 P-102C PLUMBING SECOND FLOOR DOMESTIC WATER PLAN - MODULE C

1/8" = 1'-0"



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PLUMBING SECOND FLOOR DOMESTIC WATER PLAN - MODULE C

P-102C

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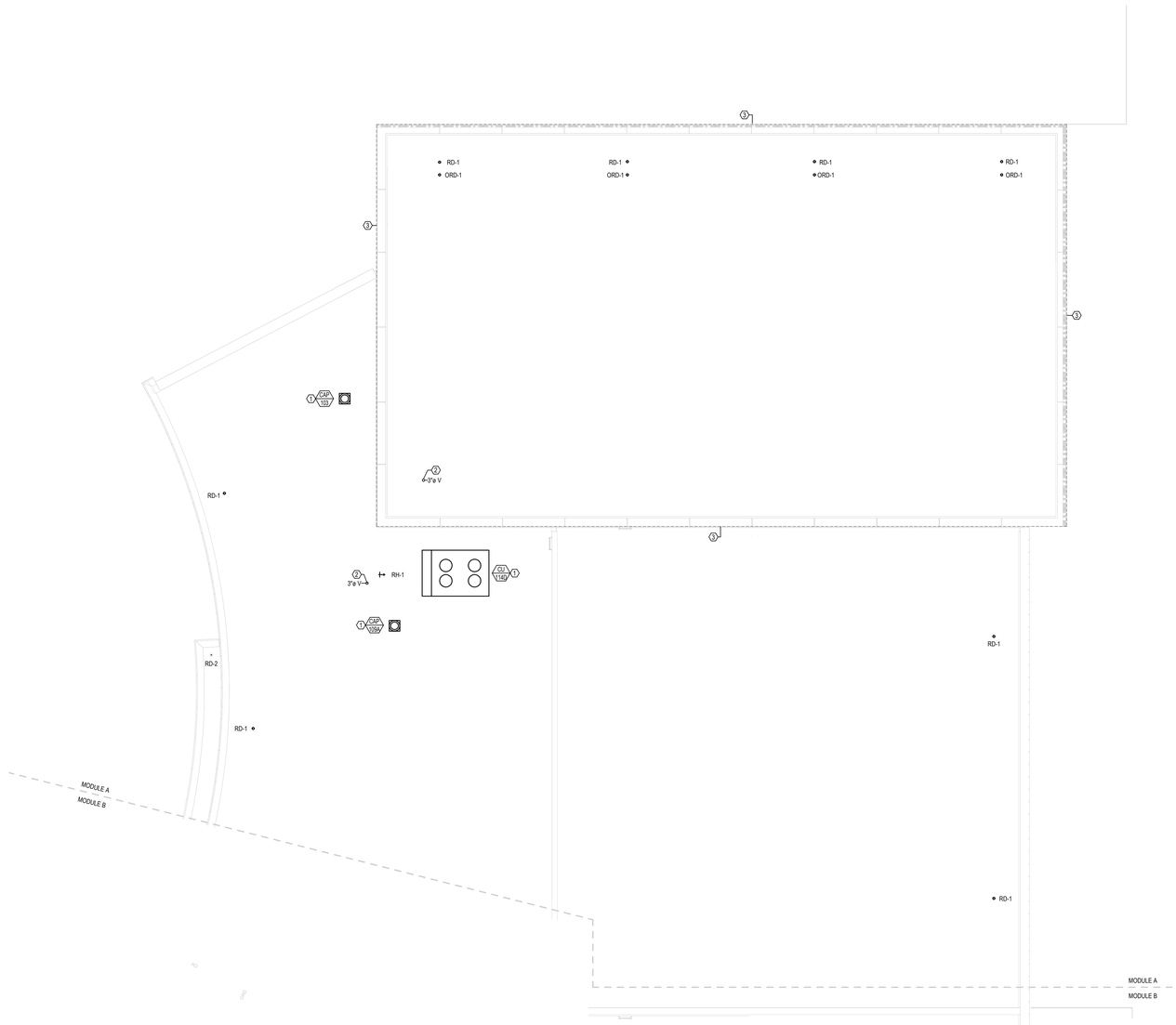
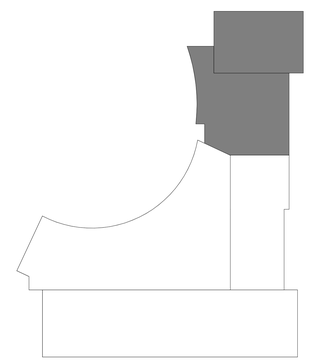


1 P-103A PLUMBING ROOF PLAN - MODULE A
1/8" = 1'-0"



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4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
2 NEW 3" VENT TO ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.
3 DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALLS AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALLS PER ICC-500 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (RECTANGULAR) OR 2-1/2" INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. PC IS RESPONSIBLE TO INSTALL PIPE / PIPE PENETRATIONS PER STRUCTURAL PLANS. REFERENCE DETAILS 1 AND 2 / S-004.

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PLUMBING ROOF PLAN - MODULE A

P-103A

BIDDING

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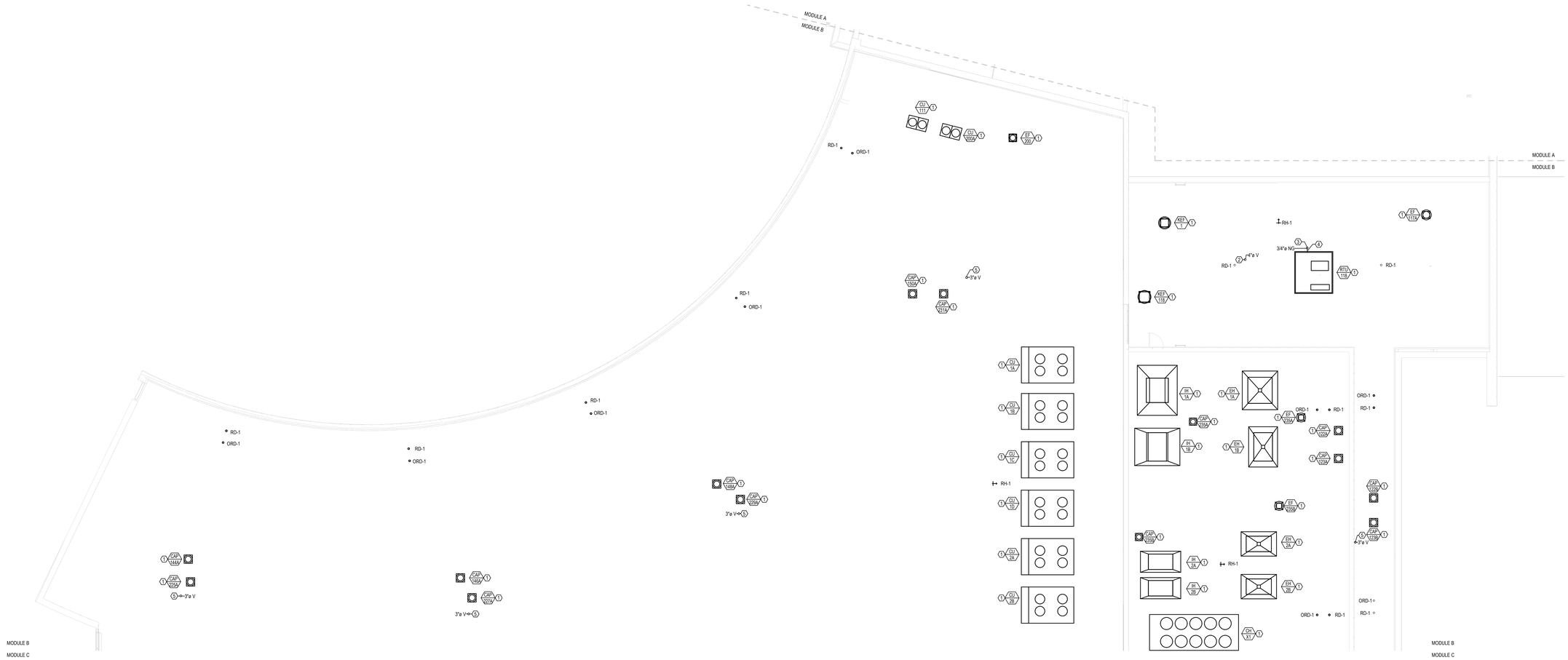
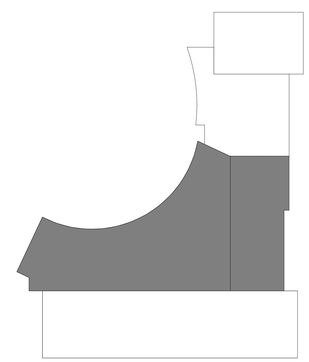
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
2 NEW 4" VENT TO ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.
3 NEW 3/4" NATURAL GAS LINE TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
4 NEW 3/4" NATURAL GAS LINE TO CONNECT TO RTU118 WITH INPUT 150 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO MAKE UP AIR UNIT.
5 NEW 3" VENT TO ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.



1 PLUMBING ROOF PLAN - MODULE B
P-103B 1/8" = 1'-0"



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REVIEWED BY	RK

PLUMBING ROOF PLAN - MODULE B

P-103B

BIDDING

GENERAL NOTES:

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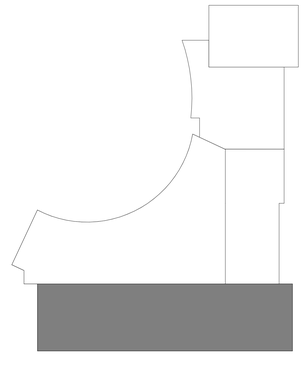
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1. MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
2. EXISTING ROOF DRAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY EXACT RISER LOCATION.
3. EXISTING VENT TO ROOF TO REMAIN.
4. NEW 4" VENT TO ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.



1 / P-103C — PLUMBING ROOF PLAN - MODULE C
1/8" = 1'-0"



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PLUMBING ROOF PLAN - MODULE C

P-103C

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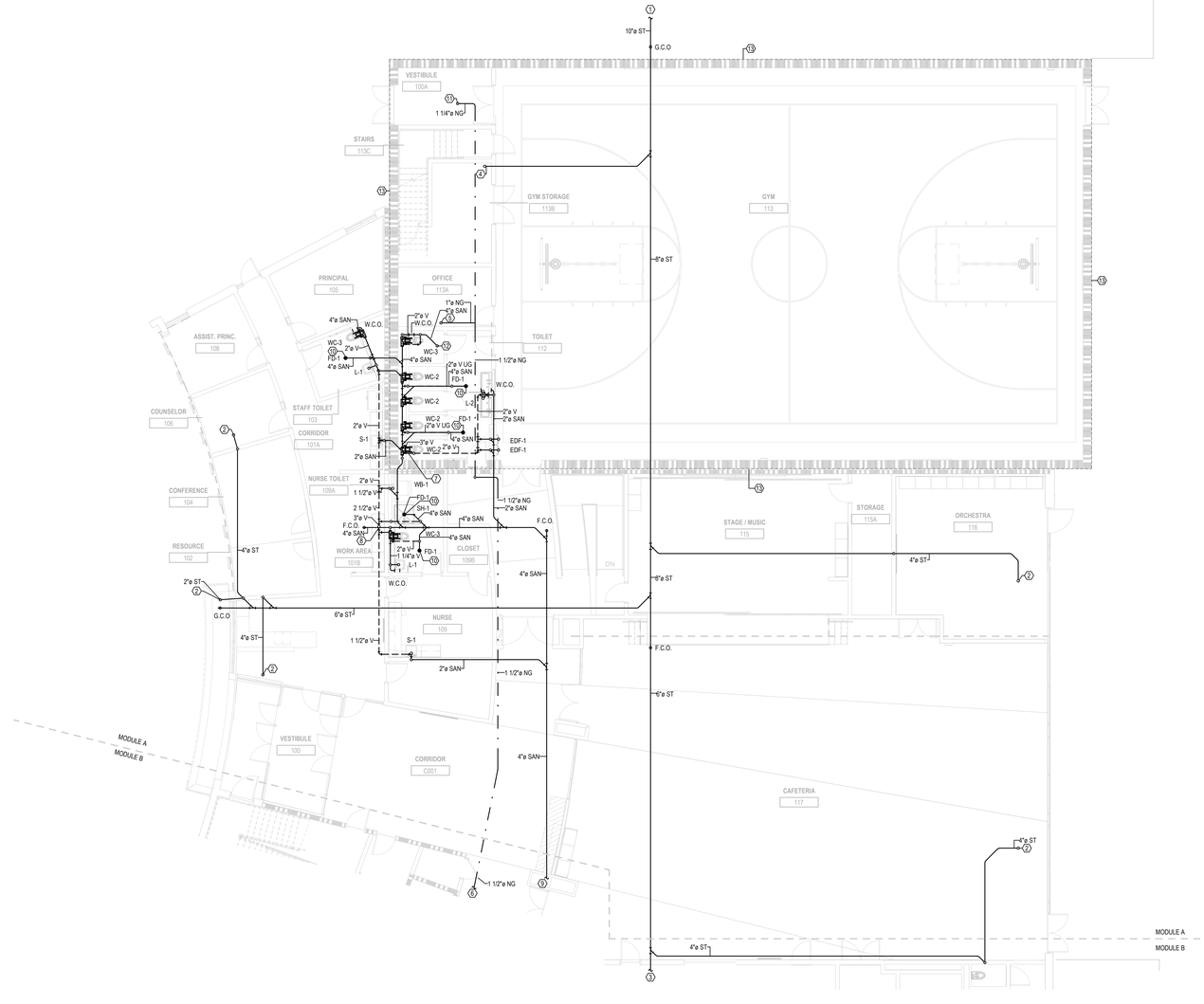

1 P-201A PLUMBING FIRST FLOOR SANITARY AND VENT PLAN - MODULE A

1/8" = 1'-0"

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7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 NEW 10" STORM LINE TO CONTINUE TO CITY MAIN. MINIMUM INVERT TO BE 3'-2" B.F.F. COORDINATE EXACT INVERT AND LOCATION WITH CIVIL CONTRACTOR.
2 NEW STORM LINE TO CONTINUE DOWN FROM ROOF DRAIN ON ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
3 NEW 6" STORM LINE TO CONTINUE FROM MODULE B. SEE SHEET P-201B FOR MORE INFORMATION.
4 NEW 6" STORM LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202A FOR MORE INFORMATION.
5 NEW 1" NATURAL GAS LINE TO CONTINUE UP TO/UE TO MEZZANINE LEVEL. SEE SHEET P-202A FOR MORE INFORMATION.
6 NEW 1-1/4" NATURAL GAS LINE TO CONTINUE FROM MODULE B. SEE SHEET P-201B FOR MORE INFORMATION.
7 NEW 3" VENT TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-202A FOR MORE INFORMATION.
8 NEW 3" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
9 NEW 4" SANITARY LINE TO CONTINUE FROM MODULE B. SEE SHEET P-201B FOR MORE INFORMATION.
10 FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
11 NEW 1-1/4" NATURAL GAS LINE TO CONTINUE UP TO MEZZANINE LEVEL. SEE SHEET P-202A FOR MORE INFORMATION.
12 NEW 4" SAN LINE TO CONTINUE DOWN FROM FD-1 ON SECOND FLOOR. SEE SHEET P-202A FOR MORE INFORMATION.
13 DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALLS AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALLS PER ICC-500 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (REGTANGULAR) OR 2-1/2" INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. PC IS RESPONSIBLE TO INSTALL PIPE / PIPE PENETRATIONS PER STRUCTURAL PLANS. REFERENCE DETAILS 1 AND 2 / S-004.

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PLUMBING FIRST FLOOR SANITARY AND VENT PLAN - MODULE A

P-201A

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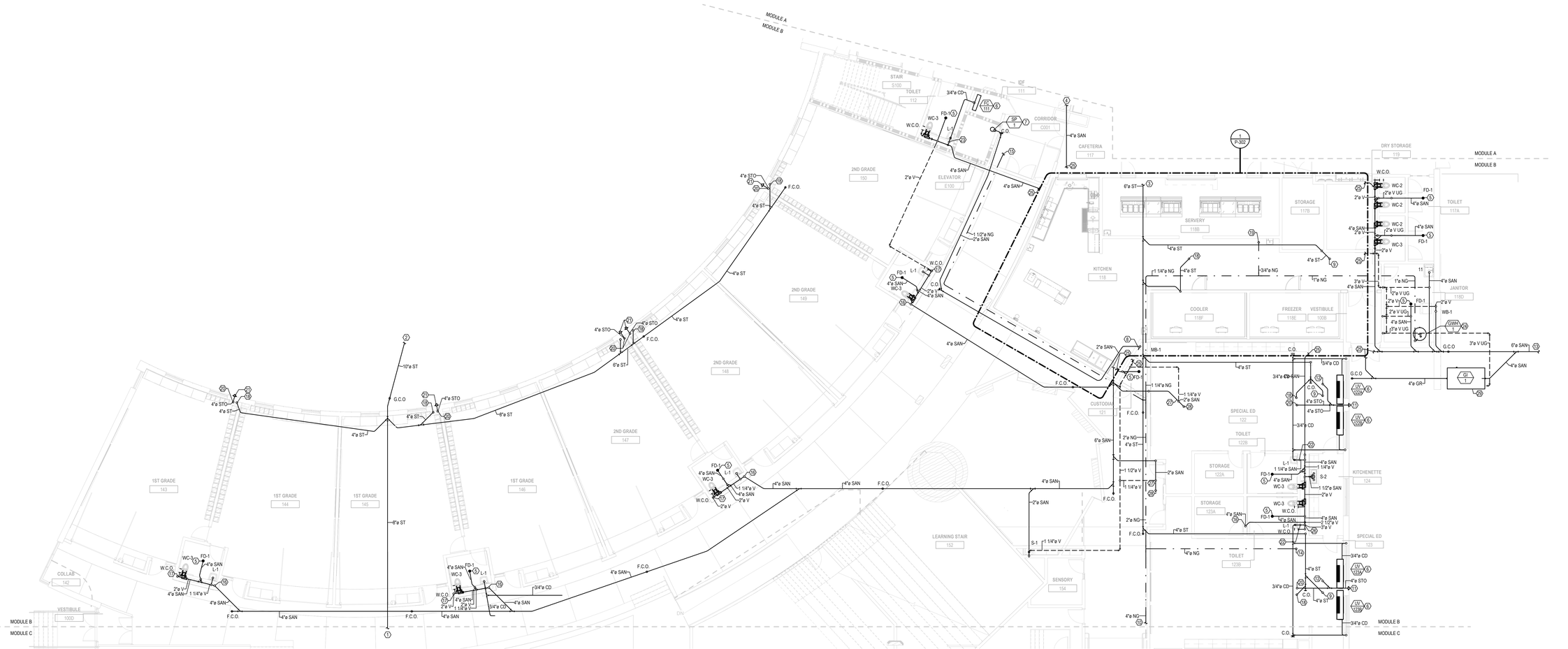

PLUMBING FIRST FLOOR SANITARY AND VENT PLAN - MODULE B

1 / P-201B — 1/8" = 1'-0"

**KEYNOTES**

1. NEW 8" STORM LINE TO CONTINUE FROM MODULE C. SEE SHEET P-101C FOR MORE INFORMATION.
2. NEW 10" STORM LINE TO CONTINUE TO CITY MAIN. MINIMUM INVERT TO BE 3'-9" B.F.F. COORDINATE EXACT INVERT AND LOCATION WITH CIVIL CONTRACTOR.
3. NEW 6" STORM LINE TO CONTINUE TO MODULE A. SEE SHEET P-201A FOR MORE INFORMATION.
4. NEW 4" SANITARY LINE TO CONTINUE FROM MODULE A. SEE SHEET P-201A FOR MORE INFORMATION.
5. FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
6. MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
7. PROVIDE GATE AND CHECK VALVE ON SANITARY LINE FROM SP-1.
8. NEW 2" SANITARY LINE TO CONNECT INDIRECTLY TO NEAREST MOP BASIN.
9. NEW 4" STORM LINE TO CONTINUE DOWN FROM ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
10. NEW 4" NATURAL GAS LINE TO CONTINUE FROM MODULE C. SEE SHEET P-201C FOR MORE INFORMATION.
11. NEW 4" STORM OVERFLOW LINE TO TERMINATE AT EXTERIOR WAL WITH LAMBS TONGUE AT HIGH ELEVATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
12. NEW 4" STORM OVERFLOW LINE TO CONTINUE DOWN FROM ROOF. SEE SHEET P-103B FOR MORE INFORMATION.

**KEYNOTES**

13. NEW 6" SANITARY LINE TO CONTINUE TO CITY MAIN. MINIMUM INVERT TO BE 4'-4" B.F.F. COORDINATE LOCATION AND INVERT WITH CIVIL CONTRACTOR.
14. NEW 4" NATURAL GAS LINE TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
15. NEW 1-1/4" NATURAL GAS LINE TO CONTINUE TO MODULE A. SEE SHEET P-201A FOR MORE INFORMATION.
16. NEW 4" SANITARY LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
17. NEW 2" VENT TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
18. NEW 4" STORM LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
19. NEW 3/4" NATURAL GAS LINE TO CONTINUE UP TO ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
20. NEW 6" STORM OVERFLOW LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
21. NEW 4" STORM OVERFLOW LINE TO TERMINATE AT EXTERIOR WAL WITH LAMBS TONGUE AT 16" A.F.F.
22. NEW 3/4" CONSENDATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE. SEE DETAIL 8 ON SHEET P-301 FOR MORE INFORMATION.
23. NEW 3/4" CONSENDATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE. SEE DETAIL 8 ON SHEET P-301 FOR MORE INFORMATION.
24. NEW 1" NATURAL GAS LINE TO CONNECT TO GWH-1 WITH INPUT 400 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO GAS WATER HEATER.
25. SEE SHEET P-302 FOR SANITARY AND VENT CONTINUATION.
26. NEW 3" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
27. NEW 2" SAN LINE TO RUN ABOVE CEILING IN THIS AREA.
28. NEW 2" SAN LINE TO CONTINUE DOWN FROM FD-1 ON SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
29. GREASE INTERCEPTOR TO BE INSTALLED IN THIS LOCATION. COORDINATE EXACT LOCATION OF GREASE INTERCEPTOR WITH CIVIL.

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

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REVIEWED BY	RK

PLUMBING FIRST FLOOR SANITARY AND VENT PLAN - MODULE B

P-201B

BIDDING

GENERAL NOTES:

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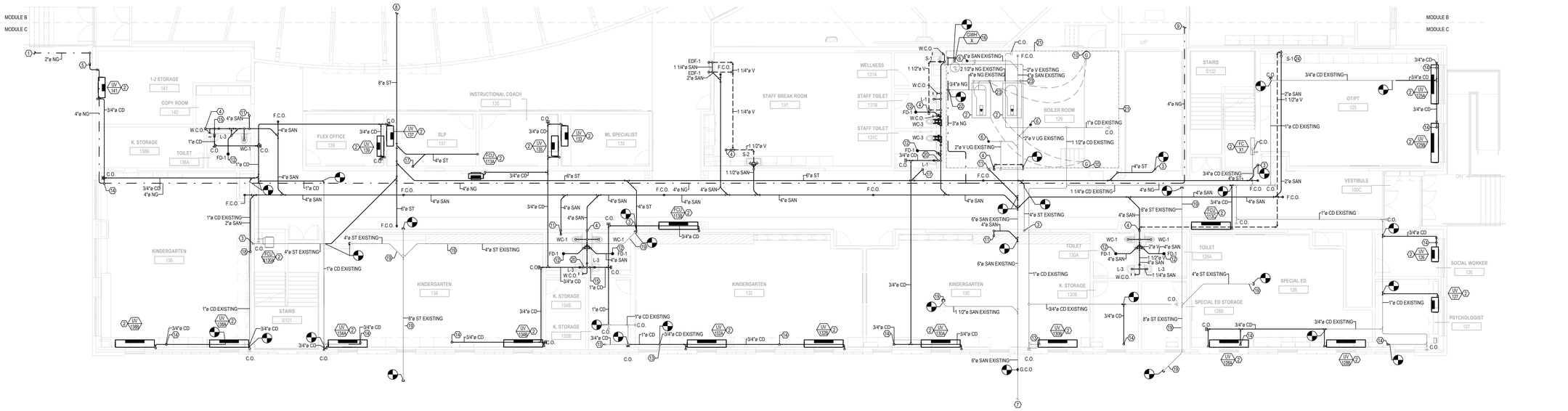
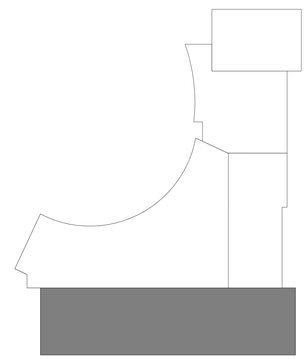
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 NEW 2" HIGH PRESSURE GAS LINE TO CONTINUE TO CITY MAIN.
2 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
3 EXISTING STORM LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
4 NEW 2" VENT TO CONTINUE UP TO SECOND FLOOR. SEE SHEET P-202C FOR MORE INFORMATION.
5 NEW 4" GAS METER. PROVIDE GAS PRESSURE REDUCING VALVE AFTER METER TO REDUCE PRESSURE DOWN TO 2 PSI.
6 EXISTING PLUMBING FIXTURE AND CORRESPONDING SAN AND VENT LINES TO REMAIN.
7 EXISTING 6" SAN LINE TO CITY MAIN TO REMAIN.
8 NEW 8" STORM LINE TO CONTINUE TO MODULE B. SEE SHEET P-101B FOR MORE INFORMATION.
9 NEW 4" NATURAL GAS LINE TO CONTINUE TO FEED MODULE B. SEE SHEET P-201B FOR MORE INFORMATION.
10 EXISTING GAS SHUT OFF BUTTON TO REMAIN.
11 NEW 4" SANITARY LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202C FOR MORE INFORMATION.
12 FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
13 EXISTING 3/4" CD LINE TO REMAIN AND CONTINUE DOWN FROM MECHANICAL EQUIPMENT ON SECOND FLOOR. SEE SHEET P-202C FOR MORE INFORMATION.
14 NEW 3/4" CD LINE TO CONTINUE DOWN FROM MECHANICAL EQUIPMENT ON SECOND FLOOR. SEE SHEET P-202C FOR MORE INFORMATION.
15 NEW 1" CONSENDATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE. SEE DETAIL 8 ON SHEET P-301 FOR MORE INFORMATION.
16 NEW 3/4" NATURAL GAS LINE TO CONNECT TO EXISTING GWH WITH INPUT 250 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO GAS WATER HEATER.
17 NEW 4" STORM LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202C FOR MORE INFORMATION.
18 NEW 1-1/2" SANITARY LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202C FOR MORE INFORMATION.
19 EXISTING PIPE UNDER SLAB TO BE ABANDONED. PIPE TO BE CUT AND CAPPED AT NEW CONNECTION POINT.
20 NEW 3/4" CONSENDATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE. SEE DETAIL 8 ON SHEET P-301 FOR MORE INFORMATION.
21 EXISTING CONDENSATE LINES IN THIS AREA ROUTED TO NEAREST FLOOR DRAINS TO REMAIN.
22 NEW 3" NATURAL GAS LINE TO CONNECT TO EXISTING BOILERS WITH INPUT 3000 MBH EACH. PROVIDE WITH 7.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO EXISTING BOILERS.
23 EXISTING EMERGENCY SHUT OFF VALVE TO REMAIN.
24 NEW 2" SAN LINE TO CONTINUE DOWN TO ABOVE FIRST FLOOR CEILING. SEE SHEET P-201A FOR MORE INFORMATION.



1 P-201C — PLUMBING FIRST FLOOR SANITARY AND VENT PLAN - MODULE C
1/8" = 1'-0"



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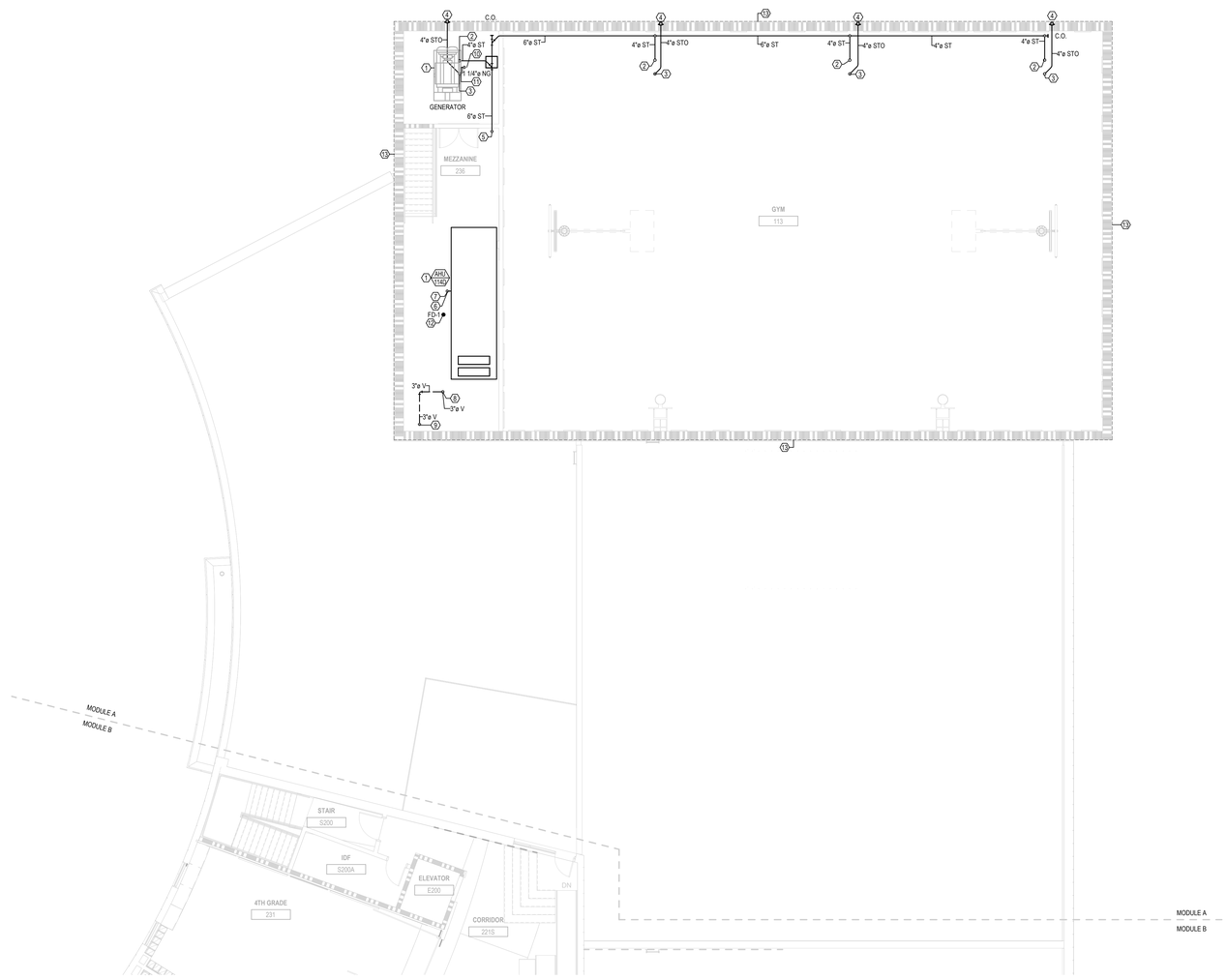
PLUMBING FIRST FLOOR SANITARY AND VENT PLAN - MODULE C

P-201C

BIDDING



1 PLUMBING SECOND FLOOR SANITARY AND VENT PLAN - MODULE A
P-202A 1/8" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
2 NEW 4" STORM LINE TO CONTINUE DOWN FROM RD-1 ON ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
3 NEW 4" STORM OVERFLOW LINE TO CONTINUE DOWN FROM ORD-1 ON ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
4 NEW 4" STORM OVERFLOW LINE TO TERMINATE AT EXTERIOR WALL WITH LAMBS TONGUE AT HIGH ELEVATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
5 NEW 6" STORM LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201A FOR MORE INFORMATION.
6 NEW 1" NATURAL GAS LINE TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-201A FOR MORE INFORMATION.
7 NEW 1" NATURAL GAS LINE TO CONNECT TO AHU 114D WITH INPUT 600 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO AIR HANDLING UNIT.
8 NEW 3" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
9 NEW 3" VENT TO CONTINUE UP FIRST FLOOR. SEE SHEET P-201A FOR MORE INFORMATION.
10 NEW 1-1/4" NATURAL GAS LINE TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-201A FOR MORE INFORMATION.
11 NEW 1-1/4" NATURAL GAS LINE TO CONNECT TO GENERATOR WITH INPUT 998 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO AIR HANDLING UNIT.
12 NEW 4" SAN LINE TO CONTINUE DOWN TO ABOVE FIRST FLOOR CEILING. SEE SHEET P-201A FOR MORE INFORMATION.
13 DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALLS AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALLS PER ICC-500 2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (REGTANGULAR) OR 2-1/2" INCH DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 306.4. PC IS RESPONSIBLE TO INSTALL PIPE / PIPE PENETRATIONS PER STRUCTURAL PLANS. REFERENCE DETAILS 1 AND 2 / S-004.

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REVIEWED BY	RK

PLUMBING SECOND FLOOR SANITARY AND VENT PLAN - MODULE A

P-202A

BIDDING

#	KEYNOTES
1	NEW 4" STORM LINE TO CONTINUE DOWN FROM RD-1 ON ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
2	NEW 1-1/2" SANITARY LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
3	MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
4	NEW 4" SANITARY LINE DOWN FROM SECOND FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
5	NEW 2" VENT TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
6	FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
7	NEW 4" NATURAL GAS LINE TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
8	NEW 4" SANITARY LINE TO CONTINUE DOWN TO FIRST FLOOR MODULE B. SEE SHEET P-201B FOR MORE INFORMATION.
9	NEW 4" STORM TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
10	NEW 2" NATURAL GAS LINE TO CONNECT TO B158A WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.
11	NEW 2" NATURAL GAS LINE TO CONNECT TO B158B WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.

#	KEYNOTES
12	NEW 2" NATURAL GAS LINE TO CONNECT TO B158C WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.
13	NEW 3" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
14	NEW 4" STORM OVERFLOW LINE TO CONTINUE DOWN FROM ORD-1 ON ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
15	NEW 6" STORM OVERFLOW LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
16	NEW 3/4" CONSENDATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE. SEE DETAIL 8 ON SHEET P-301 FOR MORE INFORMATION.
17	NEW 2" NATURAL GAS LINE TO CONNECT TO B158D WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.
18	NEW EMERGENCY SHUT OFF VALVE.
19	EMERGENCY SHUT-OFF BUTTON. CONNECT TO EMERGENCY SHUT OFF VALVE.
20	NEW 3" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
21	NEW 2" SAN LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-302 FOR MORE INFORMATION.
22	NEW 2" SAN LINE TO CONTINUE DOWN TO ABOVE FIRST FLOOR CEILING. SEE SHEET P-201A FOR MORE INFORMATION.

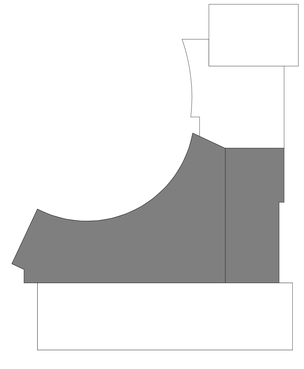
GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD, AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.



1 P-202B PLUMBING SECOND FLOOR SANITARY AND VENT PLAN - MODULE B

1/8" = 1'-0"



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PLUMBING SECOND FLOOR SANITARY AND VENT PLAN - MODULE B

P-202B

BIDDING

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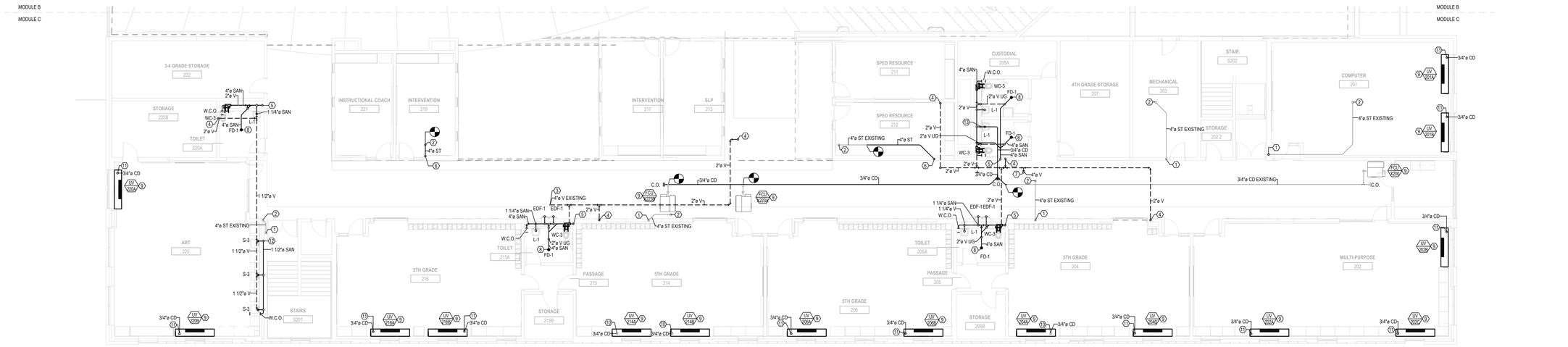
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

#	KEYNOTES
1	EXISTING STORM LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201B FOR MORE INFORMATION.
2	EXISTING STORM LINE TO CONTINUE DOWN FROM ROOF DRAIN ON ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
3	EXISTING VENT TO CONTINUE TO ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
4	NEW 2" VENT TO CONTINUE UP FROM FIRST FLOOR. SEE SHEET P-201C FOR MORE INFORMATION.
5	NEW 4" SANITARY LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201C FOR MORE INFORMATION.
6	NEW 4" STORM LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201C FOR MORE INFORMATION.
7	NEW 4" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103C FOR MORE INFORMATION.
8	FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
9	MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
10	EXISTING 3/4" CD LINE TO REMAIN AND CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201C FOR MORE INFORMATION.
11	NEW 3/4" CD LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201C FOR MORE INFORMATION.
12	NEW 1-1/2" SANITARY LINE TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET P-201C FOR MORE INFORMATION.
13	NEW 3/4" CONSENDATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE. SEE DETAIL 8 ON SHEET P-301 FOR MORE INFORMATION.



1 P-202C — PLUMBING SECOND FLOOR SANITARY AND VENT PLAN - MODULE C

1/8" = 1'-0"

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/2025
DRAWN BY	MB
REVIEWED BY	RK

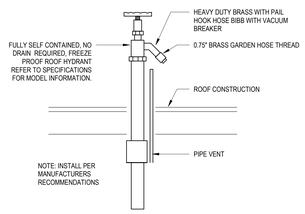
PLUMBING SECOND FLOOR SANITARY AND VENT PLAN - MODULE C

P-202C

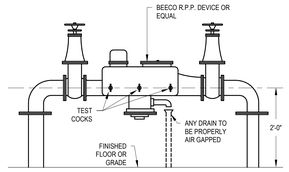
BIDDING

FIXTURE UNITS SCHEDULE

TAG	DESCRIPTION	DFU		CWFU	HWFU	TOTAL WSFU		MANUFACTURER	MODEL	REMARKS
		FIXTURE	TOTAL	FIXTURE	FIXTURE	FIXTURE	TOTAL			
11	MOP BASIN	3	3	2	2	3	3	-	-	COORDINATE WITH KITCHEN DRAWINGS
20	DISHWASHER WITH BOOSTER HEATER	3	3	0	1	1	1	-	-	COORDINATE WITH KITCHEN DRAWINGS
22	FLOOR TROUGH AND GRATE	6	6	0	0	0	0	-	-	COORDINATE WITH KITCHEN DRAWINGS
24	HAND SINK	2	2	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
25	THREE COMPARTMENT POT WASHING SINK	0	0	0	0	0	0	-	-	COORDINATE WITH KITCHEN DRAWINGS
27	HAND SINK	2	2	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
37	HOT SERVING COUNTER	0	0	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
42	HOT SERVING COUNTER	0	0	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
45	HAND SINK	2	2	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
49	HAND SINK	2	2	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
58	WORKTABLE W/ SINK	2	2	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
73	TWO COMPARTMENT PREP SINK	0	0	0	0	0	0	-	-	COORDINATE WITH KITCHEN DRAWINGS
EDF-1	ELECTRIC BOTTLE FILLING STATION - ADA, IN-WALL, NON-FILTERED	1	2	0.25	0	0.25	0.5	ELKAY	EMASM	ADA COMPLIANT, STAINLESS STEEL, NON-FILTERED BOTTLE FILLING STATION.
FD-1	FLOOR DRAIN	6	156	0	0	0	0	SOUIX CHEF	832	CAST IRON, ADJUSTABLE, CAULK RIM TO ADJECENT FLOOR MATERIAL. PROVIDED TRAP GUARD TO BE INSTALLED WITH FLOOR DRAIN.
HB-1	EXTERIOR HOSE BIBB, WITH VACUUM BREAKER, FREEZELESS, WALL MOUNT	0	0	4	0	0	0	WOODFORD	B65	FROST PROOF CONCEALED WALL HOSE BIB WITH LOCKABLE BRASS BOX FLUSH WITH EXTERIOR WALL. PROVIDE WITH VACUUM BREAKER.
L-1	LAVATORY - WALL MOUNT, VITREOUS CHINA, ADA	1	19	1	1	1.5	28.5	AMERICAN STANDARD	0355.027	20-1/2" X 18-1/4" X 6-1/2" SINGLE BOWL, WALL MOUNTED LAVATORY. MANUAL FAUCET TO BE AMERICAN STANDARD 5500.140-V05. 0.5 GPM. TO BE PROVIDED WITH A.S.S.E APPROVED TMV.
L-2	LAVATORY - ADA, WALL MOUNT, TERREON BASIN	1	1	1	1	1.5	1.5	BRADLEY	TLX-3	ADA, WALL MOUNTED, THREE USER EXPRESS LAVATORY SYSTEM. TO BE PROVIDED WITH BRADLEY VERGE DECK MOUNTED FAUCUET MODEL S53-3300. FAUCET TO BE HARDWIRED AND TO BE PROVIDED WITH A14-029 AC ADAPTER. NO SOAP DISPENSER TO BE INSTALLED ON LAVATORY SYSTEM. A.S.S.E APPROVED TMV. COORDINATE COLOR WITH ARCHITECT.
L-3	LAVATORY - WALL MOUNT, VITREOUS CHINA, ADA, CHILD HEIGHT	1	5	1	1	1.5	7.5	AMERICAN STANDARD	0355.027	20-1/2" X 18-1/4" X 6-1/2" SINGLE BOWL, WALL MOUNTED LAVATORY. MANUAL FAUCET TO BE AMERICAN STANDARD 5500.140-V05. 0.5 GPM. TO BE PROVIDED WITH A.S.S.E APPROVED TMV. LAVATORY TO BE MOUNTED AT CHILD HEIGHT. SEE ARCHITECT PLANS FOR MORE INFORMATION.
MB-1	MOP BASIN - PLASTIC	3	3	2	2	3	3	MUSTEE	63M	PLASTIC 24"X24" MOP BASIN, FAUCET TO BE MUSTEE 63.600A.
ORD-1	OVERFLOW ROOF DRAIN	0	0	0	0	0	0	JR SMITH	1080	CAST IRON BODY, DOME AND WATER DAM.
RD-1	ROOF DRAIN - 4" DIAMETER	0	0	0	0	0	0	JR SMITH	1080	CAST IRON BODY, DOME AND WATER DAM.
RD-2	ROOF DRAIN - 2" DIAMETER	0	0	0	0	0	0	JR SMITH	1080	CAST IRON BODY, DOME AND WATER DAM.
RH-1	FREEZELESS, ROOF MOUNT HOSE BIB WITH VACUUM BREAKER	0	0	4	0	4	8	WOODFORD	SRH-MS	FREEZELESS, DRAINLESS ROOD MOUNTED HOSE BIB. TO BE PROVIDED WITH BACKFLOW PREVENTOR.
S-1	SINGLE BOWL SINK - ADA, UNDERMOUNT, STAINLESS STEEL	2	6	1	1	1.5	4.5	AMERICAN STANDARD	18SB6181600S.075	18" X 16" X 6" SINGLE BOWL DROP IN SINK. TO BE PROVIDED WITH MANUAL 0.5 GPM, WIDESPREAD AMERICAN STANDARD FAUCET MODEL 6340.175.TO BE PROVIDED WITH A.S.S.E APPROVED TMV.
S-2	DOUBLE BOWL KITCHEN SINK - ADA, UNDERMOUNT, STAINLESS STEEL	2	4	1	1	1.5	3	AMERICAN STANDARD	18DB6331800S.075	32" X 18" X 6" DOUBLE BOWL DROP IN KITCHEN SINK. TO BE PROVIDED WITH MANUAL 0.5 GPM, GOOSENECK AMERICAN STANDARD FAUCET MODEL 6540.175.TO BE PROVIDED WITH A.S.S.E APPROVED TMV.
S-3	SINGLE BOWL SINK - UNDERMOUNT, VITREOUS CHINA	2	6	1	1	1.5	4.5	AMERICAN STANDARD	0426.000	16" X 16" X 4-3/4" SINGLE BOWL UNDERMOUNT SINK. TO BE PROVIDED WITH MANUAL 0.5 GPM, GOOSENECK AMERICAN STANDARD FAUCET MODEL 6540.175.TO BE PROVIDED WITH A.S.S.E APPROVED TMV.
SH-1	SHOWER - ADA, HAND HELD SHOWER HEAD	3	3	1.5	1.5	3	3	CHICAGO FAUCETS	SH-PB1-00-011	ADA COMPLIANT, MANUAL, 2.5 GPM. SHOWER HEAD TO BE CHICAGO FAUCET SH-PB1-00-011. TO BE PROVIDED WITH TMV VALVE. VALVE TO BE A.S.S.E. APPROVED TMV SET AT 110F. MIXING VALVE TO BE CHICAGO FAUCET 1921-V0NF OR SIMILAR.
WB-1	WASHER BOX	3	3	1.5	1.5	2	2	-	-	PLASTIC WASHER BOX. WASHER BOX TO BE OATEY MODEL 38630 OR SIMILAR.
WB-2	WALL BOX	0	0	1	0	0	0	OATEY	0K	TO BE PROVIDED WITH BACKFLOW PREVENTOR.
WC-1	WATER CLOSET - FLOOR MOUNT, TANK TYPE, ADA	6	30	3	0	3	15	AMERICAN STANDARD	2282.001	BABY DEVORO, 10" RIM HEIGHT. FLOOR MOUNTED FLUSH VALVE WATER CLOSET 1.28 GPF. TO BE PROVIDED WITH MANUAL, 1.28 GPF AMERICAN STANDARD FLUSH VALVE MODEL 6074.121.002. PROVIDE OPEN FRONT SEATS FOR ALL TOILETS. FINISH TO BE WHITE.
WC-2	WATER CLOSET - WALL MOUNT, FLUSH VALVE	8	56	10	0	10	70	AMERICAN STANDARD	2859.016	WALL MOUNTED FLUSH VALVE WATER CLOSET 1.28 GPF. TO BE PROVIDED WITH MANUAL, 1.28 GPF AMERICAN STANDARD FLUSH VALVE MODEL 6047.121.002. PROVIDE OPEN FRONT SEATS FOR ALL TOILETS. FINISH TO BE WHITE.
WC-3	WATER CLOSET - WALL MOUNT, FLUSH VALVE, ADA	8	104	10	0	10	130	AMERICAN STANDARD	2859.016	ADA, WALL MOUNTED FLUSH VALVE WATER CLOSET 1.28 GPF. TO BE PROVIDED WITH MANUAL, 1.28 GPF AMERICAN STANDARD FLUSH VALVE MODEL 6047.121.002. PROVIDE OPEN FRONT SEATS FOR ALL TOILETS. FINISH TO BE WHITE.
			420				295.5			

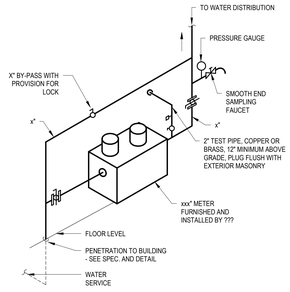


1 P-300 ROOF HYDRANT DETAIL
SCALE: N.T.S.



NOTE:
DEVICE SHALL BE INSTALLED IN AN ACCESSIBLE AREA.

2 P-300 BACKFLOW PREVENTER DETAIL
SCALE: N.T.S.



3 P-300 WATER METER DETAIL
SCALE: N.T.S.

WATER HEATER SCHEDULE

TAG	DESCRIPTION	LOCATION	STORAGE (GAL)	RECOVERY CAP. (100°F RISE)	GAS INPUT (MBH)	ELECTRICAL DATA V	PH	HZ	AMPS	FLUE CONNECTION DIA. (IN)	CA INTAKE DIA. (IN)	TEMP. SET POINT (°F)	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
GWH-1	GAS WATER HEATER	CUSTODIAL 121	119.0	460.0	400	120	1	60	5.A	4	4	160	855	A.O SMITH	BTH-400A MXI	ALL

REMARKS
1. GAS CONNECTION 3/4", WATER CONNECTION 1-1/2", AIR INLET CONNECTION 4", VENT CONNECTION 4"
2. UNIT IS TO USE NATURAL GAS CONNECTION AND USE DOWN FIRED POWER BURNER DESIGNED FOR PRECISE MIXING OF AIR AND GAS FOR OPTIMUM EFFICIENCY, REQUIRING NO SPECIAL CALIBRATION ON START UP.
3. WATER HEATER SHALL HAVE A FOAM INSULATION AND A CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE.
4. UNIT SHALL USE A CONCENTRIC KIT WITH PART NO. 9003910105 PRIOR TO PENETRATING ROOF. 4" PVC PIPES SHALL BE USED FOR POWER DIRECT -VENTING UP THROUGH ROOF. EQUIVALENT DISTANCE OF VENT PIPES SHALL NOT EXCEED 120 FEET. PROVIDE MESH WIRE SCREEN FOR VERMIN CONTROL.
5. PROVIDE 4" LEG KIT TO MEET NSF REQUIREMENTS. STANDARD CONTROLS TO INCLUDE ADJUSTABLE T-STAT, ELECTRONIC IGNITION, EMERGENCY GAS CUT-OFF AND PRESSURE REGULATOR.
6. UNIT TO HAVE DRIP PAN THAT IS TO BE DRAINED TO NEAREST FLOOR DRAIN.
7. PROVIDE EXPANSION TANK ET-1 TO BE AMTROL ST-20VC/CD OR EQUAL.
8. WATER HEATER TO BE PROVIDED WITH VACUUM BREAKER (VR-1) AND AIR VENT (AV-1).
9. PROVIDE WITH MIXING VALVE TO SET TEMPERATURE TO 140F.

SUMP PUMP SCHEDULE

TAG	LOCATION	SERVICE	PUMP TYPE	FLOW RATE (GPM)	TOTAL DYNAMIC HEAD (FT)	ELECTRICAL DATA HP	V	PH	HZ	BASIN DIAMETER (IN.)	BASIN DEPTH (IN.)	MANUFACTURER	MODEL NO.	REMARKS
SP-1	ELEVATOR PIT	SUMP PUMP	SUBMERSIBLE	169	29	2.0	208	1	60	9	18	GRUNDFOS	EF12.A20	ALL

REMARKS
1. LABEL ALL PUMPS.
2. UNITIZED CERAMIC MECHANICAL SEAL, BUNA N O-RINGS, AND STAINLESS STEEL SHAFT AND HARDWARE FOR THIS UNIT
3. USES SINGLE ROLL BALL BEARING CONSTRUCTION.
4. PIPGGYBACK PLUG AVAILABLE FOR EASY MAINTENANCE AND REPLACEMENT.
5. PROVIDE CHECK VALVE BETWEEN THE PUMP AND THE GRAVITY DRAINAGE SYSTEM.
6. PROVIDE AIR GAP BETWEEN SEWER CONNECTION TO PREVENT GAS FROME ENTERING ELEVATOR HOISTWAY.

RECIRCULATION PUMP SCHEDULE

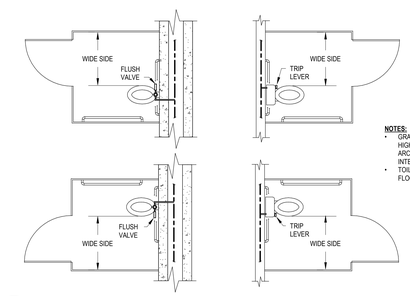
TAG	LOCATION	SERVICE	CAPACITY (GPM)	PUMP HEAD (FT)	ELECTRICAL DATA RPM	HP	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
RCP-1	CUSTODIAL 121	RECIRCULATION	10	25	1450	0.17	120	1	60	17	BELL AND GOSSET	PL-45	ALL

REMARKS
1. LABEL ALL PUMPS.
2. INLINE PUMPS ARE TO BE SUPPORTED BY PIPING, AND/OR HUNG FROM UNISTRUCT WITH VIBRATION HANGING RODS.
3. CONTRACTOR SHALL VERIFY FINAL HEAD PRESSURE AND PUMP SELECTION WITH ACTUAL FIELD CONDITIONS.

GREASE INTERCEPTOR SCHEDULE

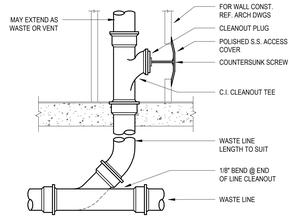
TAG	SERVICE	TYPE	CAPACITY FLOW (GPM)	LIQUID (GAL)	WASTE (LB)	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
GI-1	KITCHEN	EXTERIOR	750	1000.0	5040.00	2200	ROCKFORD INTERCEPTORS	RGI-1000	ALL

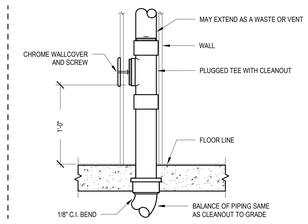
REMARKS
1. COORDINATE EXACT LOCATION AND DEPTH WITH CIVIL PLANS.



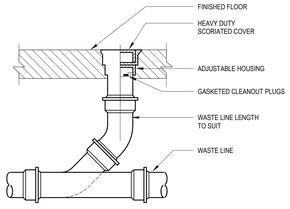
NOTES:
- GRAB BAR HEIGHT NOT TO EXCEED 44 INCHES HIGH. COORDINATE ALTERNATE HEIGHT WITH ARCHITECT OR CONTRACTOR FOR GRAB BAR INTERFERENCE.
- TOILET SEAT HEIGHT TO BE BETWEEN 17" - 19" OFF FLOOR.

4 P-300 ADA COMPLYING WATER - CLOSET INSTALLATION
SCALE: N.T.S.

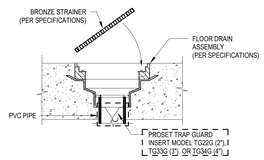




5 P-300 WALL CLEANOUT DETAIL
SCALE: N.T.S.



6 P-300 FLOOR CLEANOUT DETAIL
SCALE: N.T.S.



NOTES:
1. THIS INSERT CAN BE INSTALLED INTO ANY GASKETED OPEN ENDED PIPE TO PREVENT SEWER GAS EMISSION.
2. RAP GUARD SHALL BE INSERTED INTO A GASKETED OPEN END PIPE THAT CONNECTS LARGER TOP FLOOR DRAIN.
3. TO MAKE A WATERTIGHT SEAL, USE AN ADHESIVE TYPE CAULK UNDER THE TOP FLANGE AND THE GASKET MATERIAL.
4. FLOOR DRAINS IN THE KITCHEN SHALL NOT HAVE TRAP GUARD.

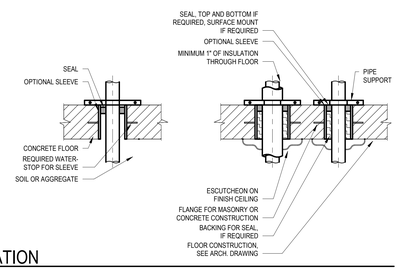
7 P-300 FLOOR DRAIN DETAIL
SCALE: N.T.S.

LISTED FIRE-STOP SYSTEM SHALL BE ON FIRE-RESISTIVE CONSTRUCTION. INSTALLATION SHALL COMPLY WITHIN THE LIMITATION OF THE LISTING AND MEET REQUIRED F-RATING AND T-RATING.

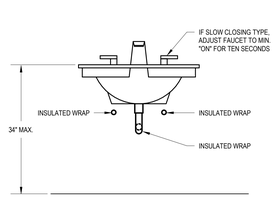
WATERTIGHT SEAL SHALL BE REQUIRED FOR PENETRATION THROUGH FLOOR AGAINST SOIL OR AGGREGATE.

SMOKE BARRIERS AND ALL OTHER PENETRATIONS, PROVIDE SEAL AS INDICATED IN SPEC.

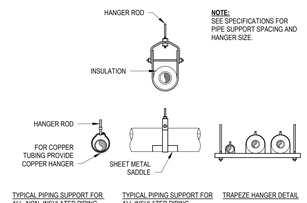
SEE SPEC. FOR CUTTING, PATCHING, PENETRATION SEAL, SLEEVES, EXCAVATION AND BACKFILLING.



8 P-300 FLOOR PENETRATION
SCALE: N.T.S.



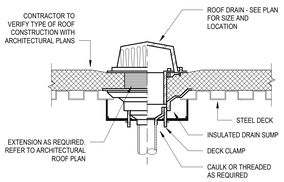
9 P-300 ADA COMPLYING LAVATORY INSTALLATION
SCALE: N.T.S.



NOTE:
SEE SPECIFICATIONS FOR PIPE SUPPORT SPACING AND HANGER SIZE.

TYPICAL PIPING SUPPORT FOR ALL NON-INSULATED PIPING
TYPICAL PIPING SUPPORT FOR ALL INSULATED PIPING
TRAPEZE HANGER DETAIL

10 P-300 PIPE SUPPORT
SCALE: N.T.S.



11 P-300 ROOF DRAIN DETAIL
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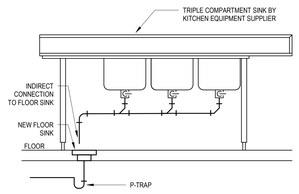

12 P-300 TRIPLE SINK DETAIL
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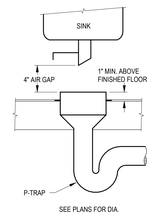
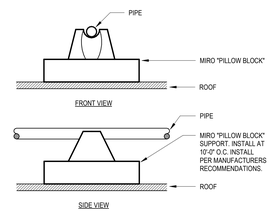
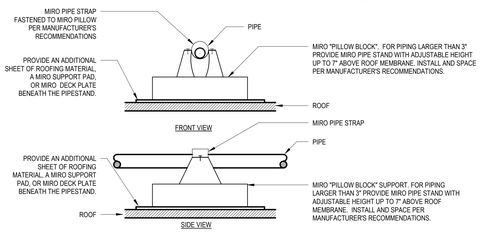


SEE PLANS FOR DIA.

13 P-300 INDIRECT WASTE CONNECTIONS
SCALE: N.T.S.





14 P-300 ROOF PIPE SUPPORT DETAIL
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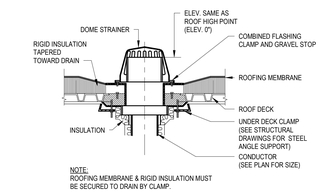
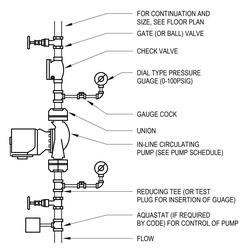
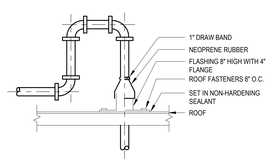


NOTE:
ROOFING MEMBRANE & RIGID INSULATION MUST BE SECURED TO DRAIN BY CLAMP.

1500 P-300 ROOF DRAIN - OVERFLOW
SCALE: N.T.S.



16 P-300 CIRCULATING PUMP DETAIL
SCALE: N.T.S.



15 P-300 GAS PIPE THRU ROOF DETAIL
SCALE: N.T.S.

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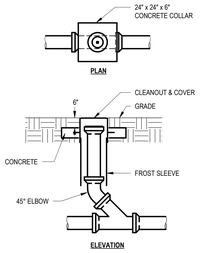
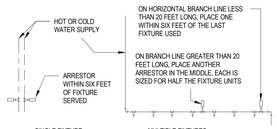
PLUMBING SCHEDULES AND DETAILS

P-300
BIDDING



5 P-301 YARD CLEANOUT
SCALE: N.T.S.



SINGLE FIXTURE

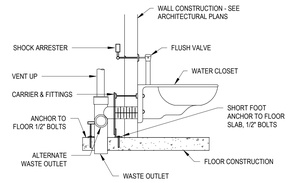
PDI SIZE	FIXTURE UNIT LOAD
AA	1-3
A	4-11
B	12-32
C	36-60
D	61-113
E	114-154

MULTIPLE FIXTURES

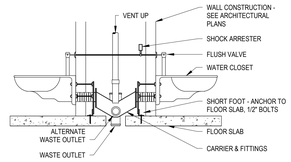
FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	8	-
LAVATORY	2	2
HOSE BIBB	2	-
DRINKING FOUNTAIN	0.5	-

PC TO PROVIDE WATER HAMMER ARRESTORS BY SOUIX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #A112.26.1M CERTIFICATION. SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S INSTRUCTION. THE TABLES ABOVE ARE BASED ON THE SOUIX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF PSIG THEN UPSIZE THE ARRESTOR BY ONE (EXAMPLE: AN 'A' ARRESTOR WOULD BECOME A 'B' ARRESTOR).

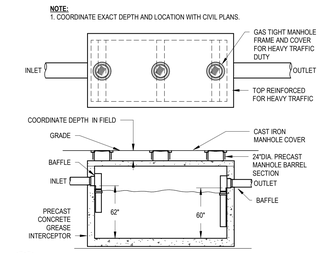
4 P-301 HAMMER ARRESTOR DETAIL
SCALE: N.T.S.



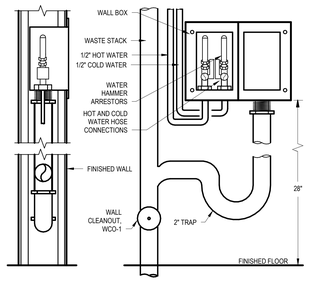
3 P-301 WALL HUNG WATER CLOSET
SCALE: N.T.S.



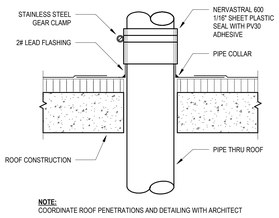
2 P-301 WALL HUNG WATER CLOSETS - BACK TO BACK
SCALE: N.T.S.



1 P-301 GREASE INTERCEPTOR - EXTERIOR
3/16" = 1'-0"

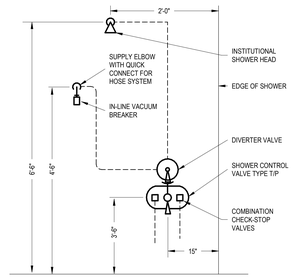


10 P-301 WASHING MACHINE CONNECTION DETAIL
SCALE: N.T.S.

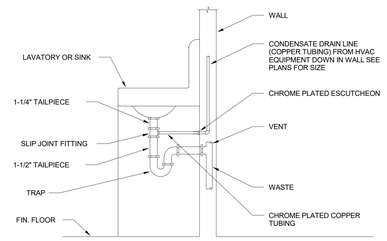


NOTE:
COORDINATE ROOF PENETRATIONS AND DETAILING WITH ARCHITECT

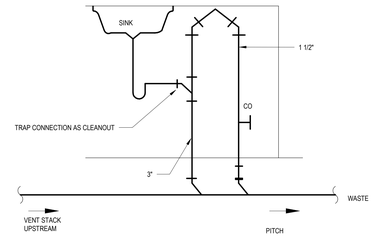
9 P-301 VENT THRU ROOF DETAIL
SCALE: N.T.S.



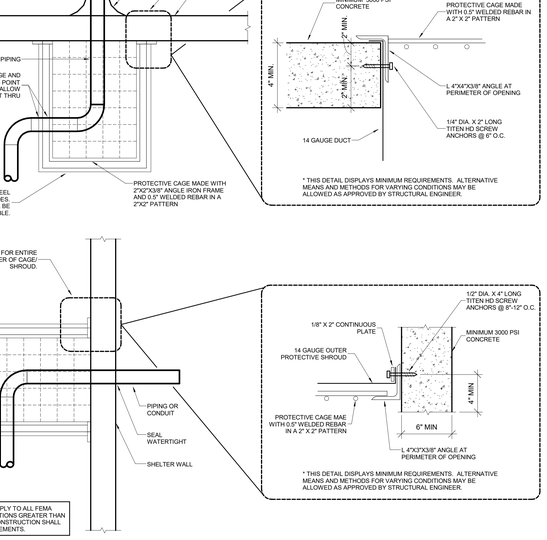
8 P-301 SHOWER (SPINAL CORD)
SCALE: N.T.S.



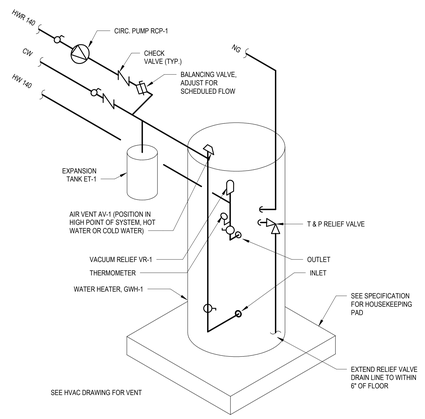
7 P-301 CONDENSATE TO SINK DETAIL
SCALE: N.T.S.



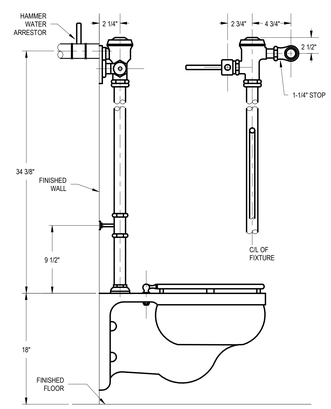
6 P-301 ISLAND SINK COMBINATION WASTE AND VENT



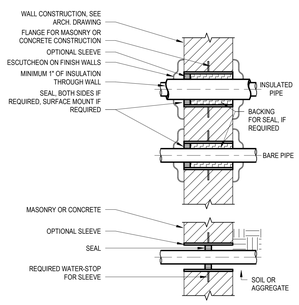
14 P-301 STORM SHELTER PENETRATIONS DETAIL
SCALE: N.T.S.



13 P-301 WATER HEATER - KITCHEN HW 140 DETAIL
SCALE: N.T.S.



12 P-301 FLUSH VALVE DETAIL - MANUAL
SCALE: N.T.S.



LISTED FIRE-STOP SYSTEM SHALL BE ON FIRE-RESISTIVE CONSTRUCTION. INSTALLATION SHALL COMPLY WITHIN THE LIMITATION OF THE LISTING AND MEET REQUIRED F-RATING AND T-RATING.

WATERTIGHT SEAL SHALL BE REQUIRED FOR PENETRATION THROUGH FLOOR AGAINST SOIL OR AGGREGATE.

SMOKE BARRIERS AND ALL OTHER PENETRATIONS, PROVIDE SEAL AS INDICATED IN SPEC.

SEE SPEC. FOR CUTTING, PATCHING, PENETRATION SEAL, SLEEVES, EXCAVATION AND BACKFILLING.

11 P-301 WALL PENETRATIONS
SCALE: N.T.S.

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PLUMBING DETAILS

P-301

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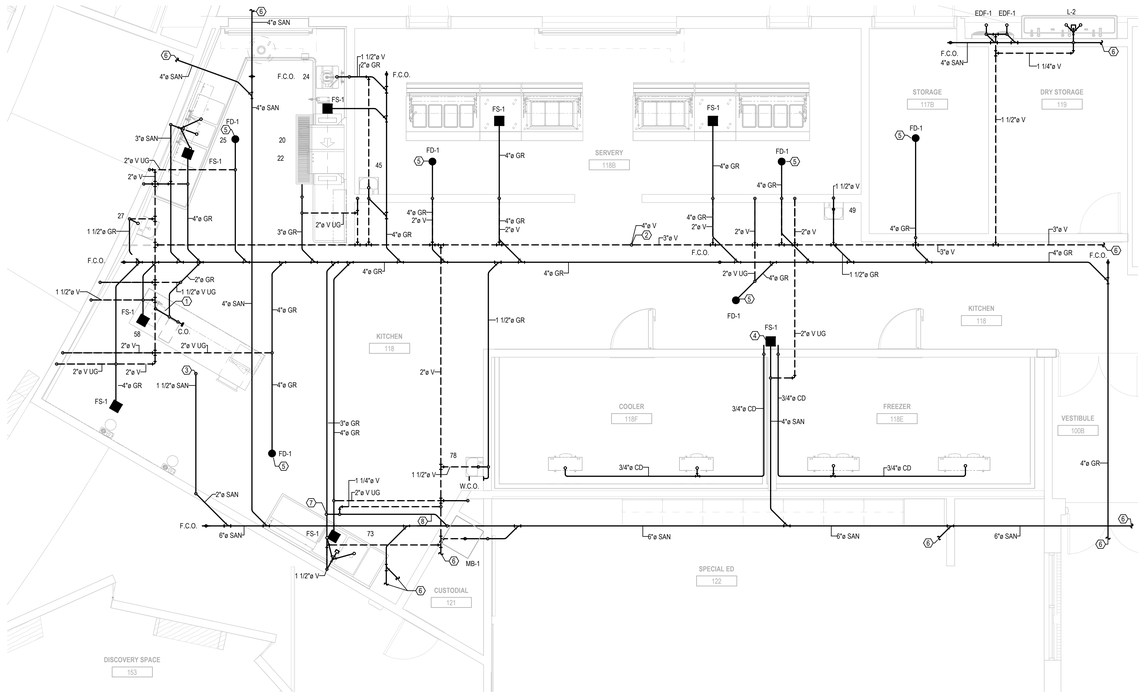

1 P-302 PLUMBING ENLARGED KITCHEN PLAN- MODULE B

1/4" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

#	KEYNOTES
1	NEW 1-1/2" SANITARY CONNECTIONS TO BE INSTALLED UNDER COUNTERTOP. SEE DETAIL 5 ON SHEET P-301 FOR ISLAND SINK SANITARY ROUTING.
2	NEW 4" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103B FOR MORE INFORMATION.
3	NEW 1-1/2" SANITARY LINE TO CONTINUE DOWN FROM SECOND FLOOR. SEE SHEET P-202B FOR MORE INFORMATION.
4	NEW 3/4" CONDENSATE LINE TO RUN FROM FREEZER/COOLER TO FLOOR SINK. CONDENSATE TO DRAIN INDIRECTLY TO FLOOR SINK.
5	FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
6	SEE SHEET P-201B FOR SANITARY AND VENT CONTINUATION.
7	NEW 2" SAN LINE TO CONTINUE DOWN FROM SECOND FLOOR MOP BASIN (MB-1). SEE SHEET P-202B FOR MORE INFORMATION.
8	NEW 2" SAN LINE TO RUN ABOVE CEILING IN THIS AREA.

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ENLARGED KITCHEN PLAN

P-302

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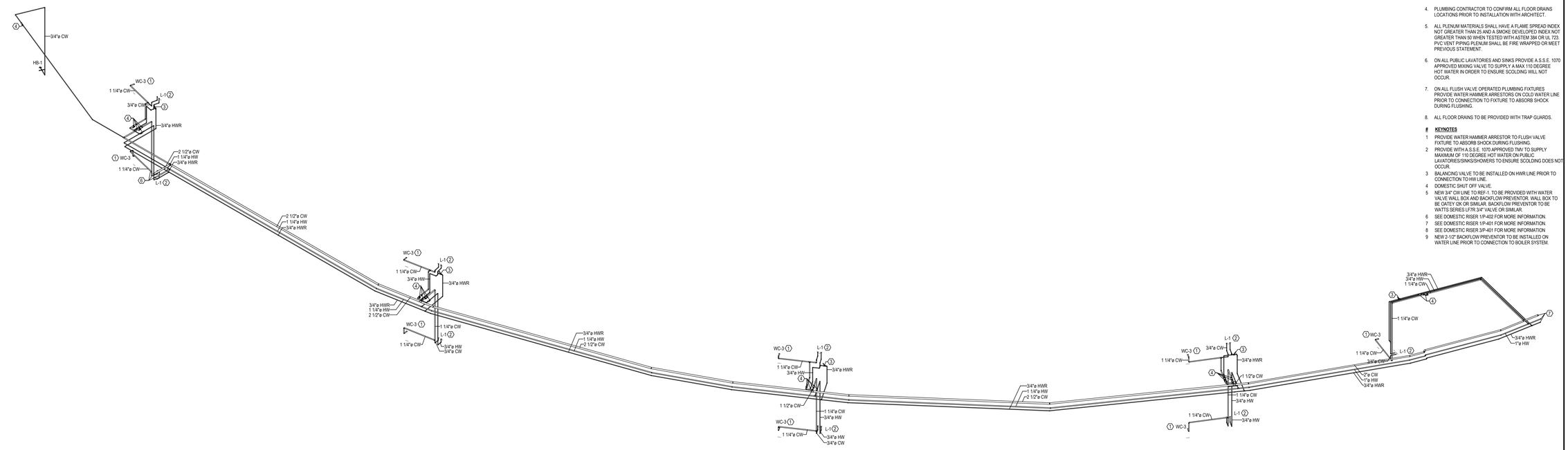
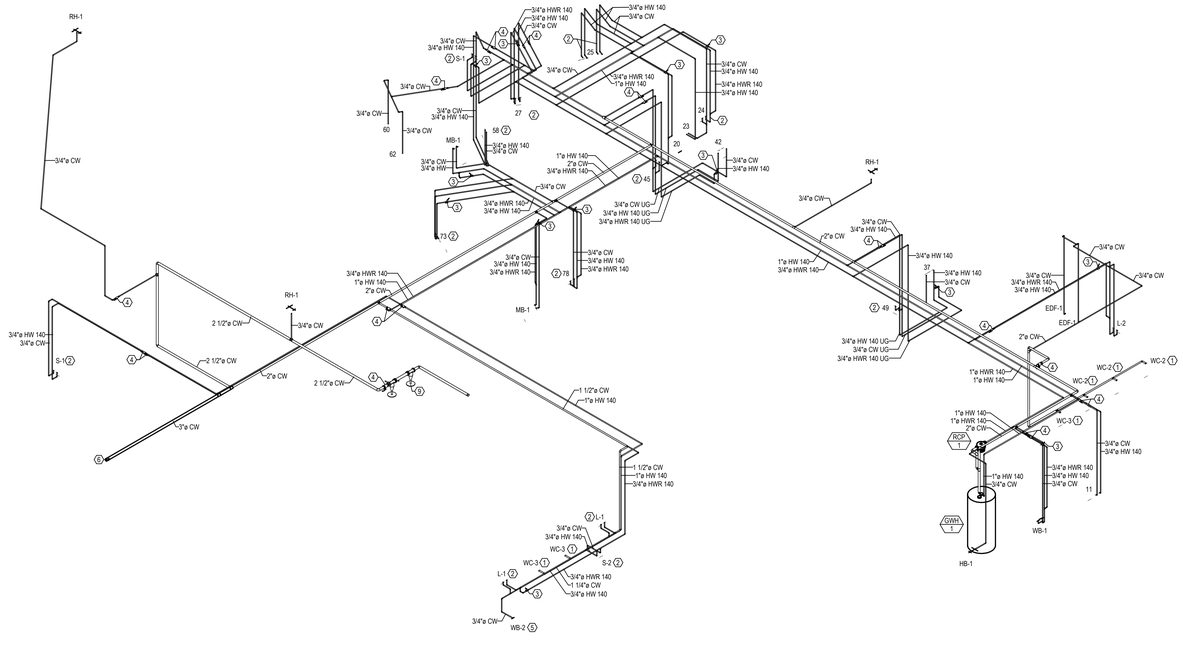


3 P-401 PLUMBING DOMESTIC WATER RISER DIAGRAM - MODULE B

SCALE: N.T.S.


RH-1
3/4"ø CW
HB-1
3/4"ø HW 140
3/4"ø HWR 140
3/4"ø CW
S-1
MB-1
WB-2
WB-1
RCP 1
GWH 1
2 1/2"ø CW
1"ø HW 140
2"ø CW
3/4"ø HWR 140
1 1/2"ø CW
3"ø CW
1 1/4"ø CW
3/4"ø HW 140
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3/4"ø HWR 140
3/4"ø HW 140
3/4"ø CW
3/4"ø HW 140

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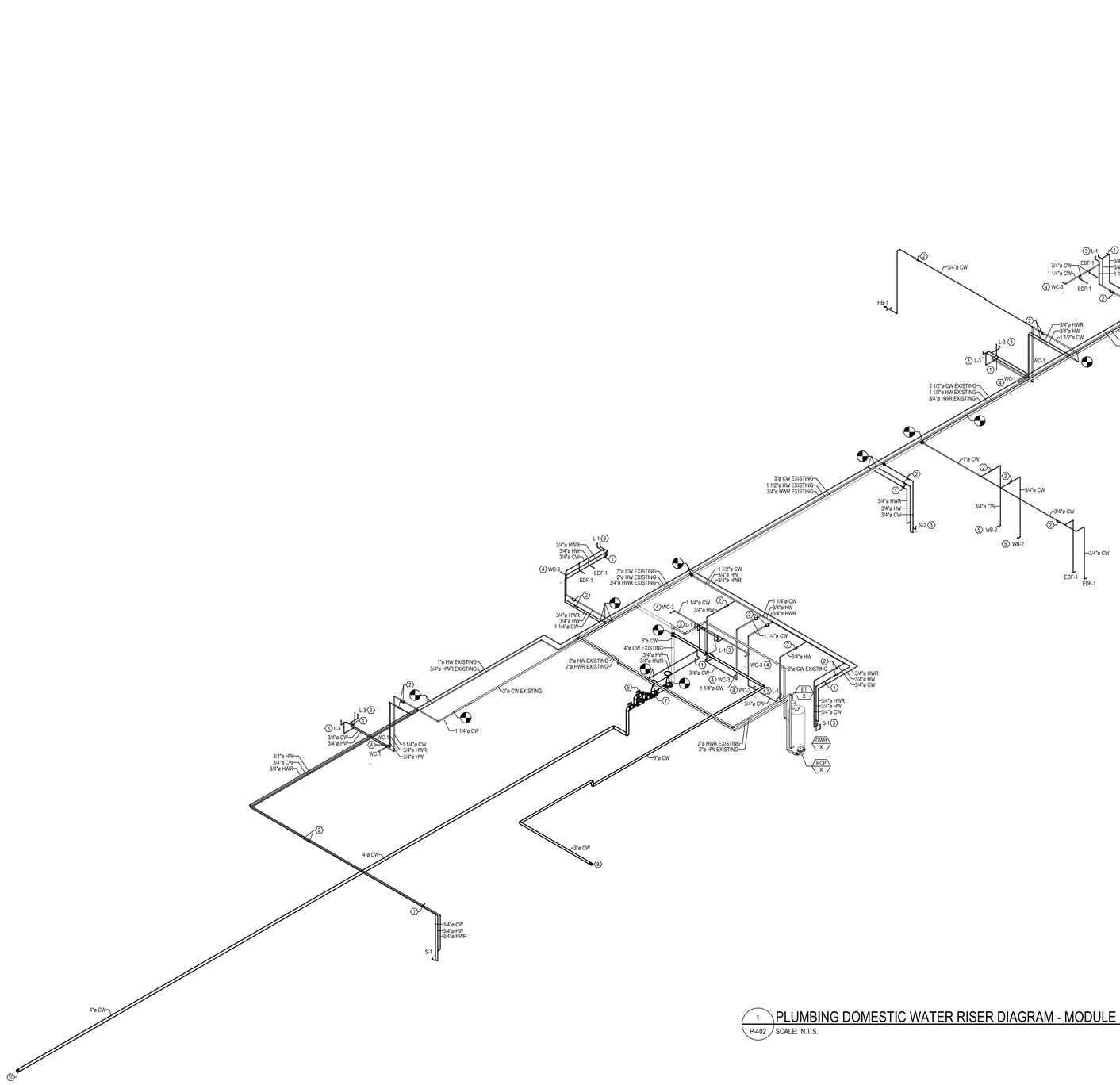
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 BALANCING VALVE TO BE INSTALLED ON HWR LINE PRIOR TO CONNECTION TO HW LINE.
2 DOMESTIC SHUT OFF VALVE.
3 PROVIDE WITH A.S.S.E. 1070 APPROVED TMV TO SUPPLY MAXIMUM OF 110 DEGREE HOT WATER ON PUBLIC LAVATORIES/SINKS/SHOWERS TO ENSURE SCOLDING DOES NOT OCCUR.
4 PROVIDE WATER HAMMER ARRESTOR TO FLUSH VALVE FIXTURE TO ABSORB SHOCK DURING FLUSHING.
5 NEW 3/4" CW LINE TO REF-1. TO BE PROVIDED WITH WATER VALVE WALL BOX AND BACKFLOW PREVENTOR. WALL BOX TO BE OATEY I2K OR SIMILAR. BACKFLOW PREVENTOR TO BE WATTS SERIES LF7R 3/4" VALVE OR SIMILAR.
6 NEW 4" DOMESTIC WATER ASSEMBLY.
7 NEW 4" DOMESTIC BACKFLOW PREVENTOR. BACKFLOW PREVENTOR TO DRAIN TO NEAREST FLOOR DRAIN.
8 SEE DOMESTIC RISER 2/P-401 FOR MORE INFORMATION.
9 SEE DOMESTIC RISER 3/P-401 FOR MORE INFORMATION.
10 NEW 4" CW LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT INVERT AND LOCATION WITH CIVIL PLANS.



1 P-402 PLUMBING DOMESTIC WATER RISER DIAGRAM - MODULE C
SCALE: N.T.S.

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REVIEWED BY	RK

PLUMBING DOMESTIC WATER RISER DIAGRAM

P-402

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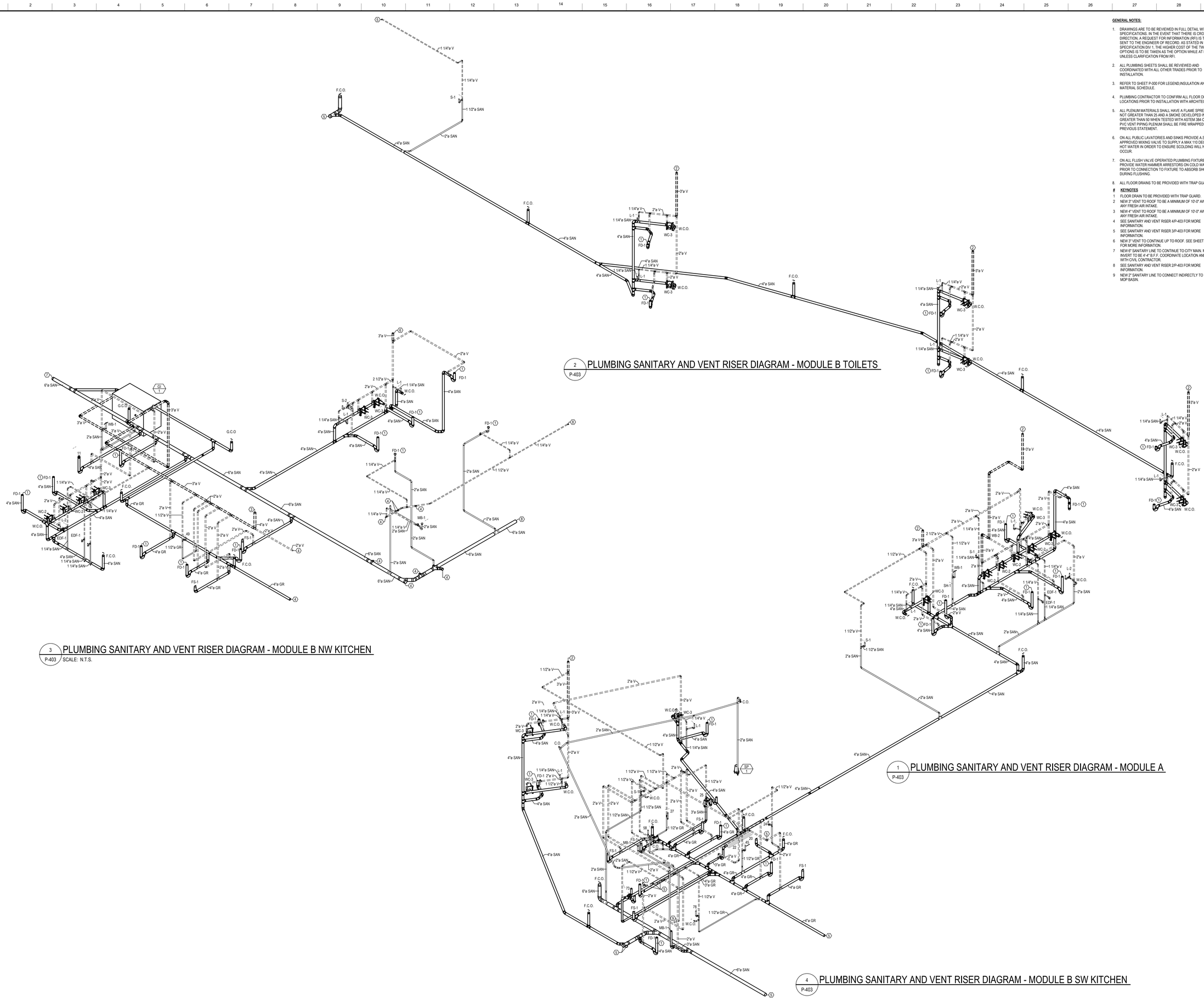

2 PLUMBING SANITARY AND VENT RISER DIAGRAM - MODULE B TOILETS
P-403

3 PLUMBING SANITARY AND VENT RISER DIAGRAM - MODULE B NW KITCHEN
P-403 SCALE: N.T.S.

1 PLUMBING SANITARY AND VENT RISER DIAGRAM - MODULE A
P-403

4 PLUMBING SANITARY AND VENT RISER DIAGRAM - MODULE B SW KITCHEN
P-403

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6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
2 NEW 3" VENT TO ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.
3 NEW 4" VENT TO ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.
4 SEE SANITARY AND VENT RISER 4/P-403 FOR MORE INFORMATION.
5 SEE SANITARY AND VENT RISER 3/P-403 FOR MORE INFORMATION.
6 NEW 3" VENT TO CONTINUE UP TO ROOF. SEE SHEET P-103A FOR MORE INFORMATION.
7 NEW 6" SANITARY LINE TO CONTINUE TO CITY MAIN. MINIMUM INVERT TO BE 4'-4" B.F.F. COORDINATE LOCATION AND INVERT WITH CIVIL CONTRACTOR.
8 SEE SANITARY AND VENT RISER 2/P-403 FOR MORE INFORMATION.
9 NEW 2" SANITARY LINE TO CONNECT INDIRECTLY TO NEAREST MOP BASIN.

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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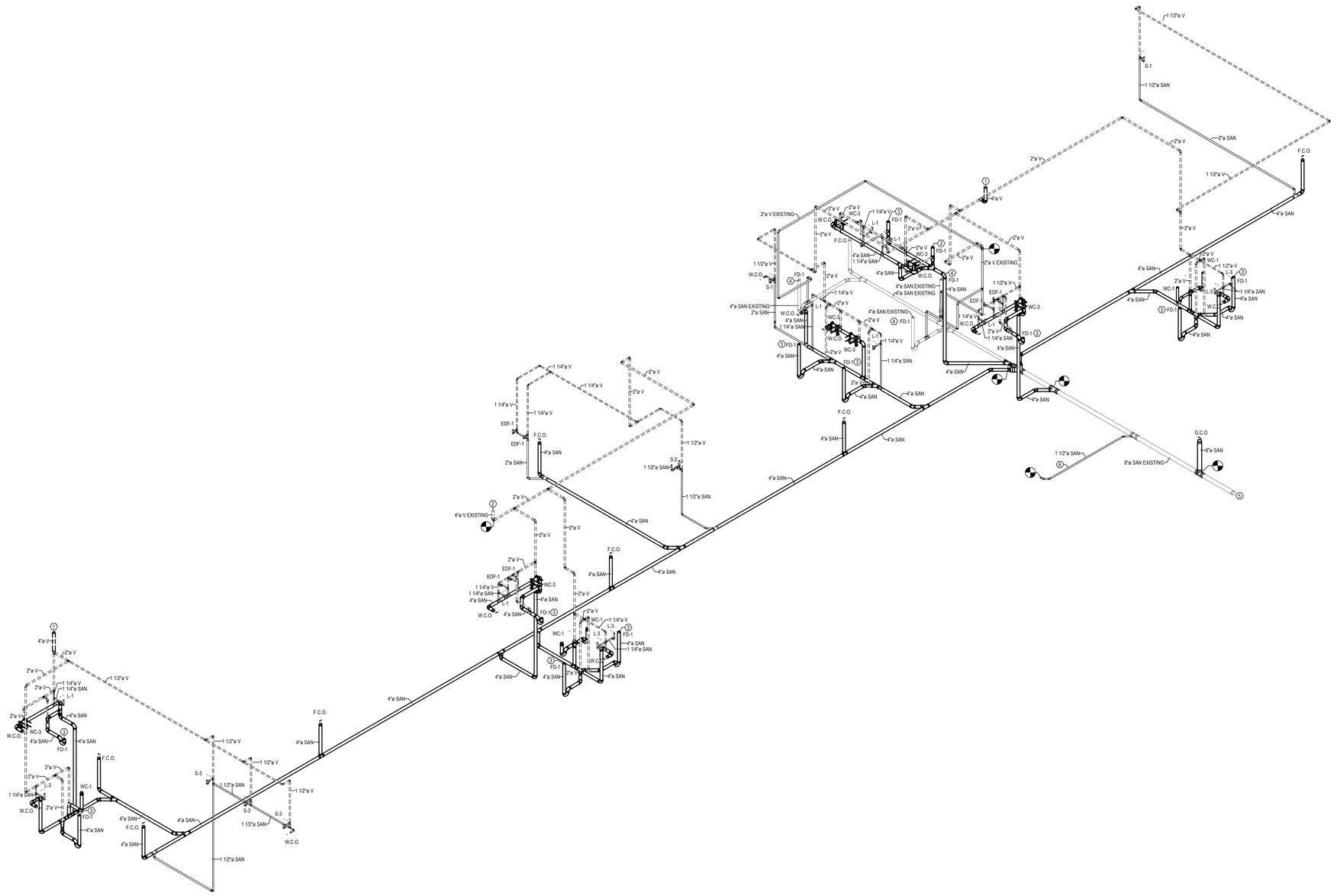
PLUMBING SANITARY AND VENT RISER DIAGRAM

P-403

BIDDING



1 PLUMBING SANITARY AND VENT RISER DIAGRAM - MODULE C
P-404 SCALE: N.T.S.

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD, AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND,INSULATION AND PIPE MATERIAL SCHEDULE.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION WITH ARCHITECT.
5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
6. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
7. ON ALL FLUSH VALVE OPERATED PLUMBING FIXTURES PROVIDE WATER HAMMER ARRESTORS ON COLD WATER LINE PRIOR TO CONNECTION TO FIXTURE TO ABSORB SHOCK DURING FLUSHING.
8. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP GUARDS.

 # KEYNOTES

1 NEW 4" VENT TO ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.
2 EXISTING 4" VENT TO REMAIN.
3 FLOOR DRAIN TO BE PROVIDED WITH TRAP GUARD.
4 EXISTING PLUMBING FIXTURE AND CORRESPONDING SAN AND VENT LINES TO REMAIN.
5 EXISTING 6" SAN LINE TO CITY MAIN TO BE DEMOLISHED.
6 EXISTING PIPE UNDER SLAB TO BE ABANDONED. PIPE TO BE CUT AND CAPPED AT NEW CONNECTION POINT.

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PLUMBING SANITARY AND VENT RISER DIAGRAM

P-404

BIDDING

#	KEYNOTES
1	MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
2	NEW 2" HIGH PRESSURE GAS LINE TO CONTINUE TO CITY MAIN.
3	NEW 4" GAS METER. PROVIDE GAS PRESSURE REDUCING VALVE AFTER METER TO REDUCE PRESSURE DOWN TO 2 PSI.
4	NEW 3/4" NATURAL GAS LINE TO CONNECT TO EXISTING GWH WITH INPUT 250 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO GAS WATER HEATER.
5	NEW 3/4" NATURAL GAS LINE TO CONNECT TO RTU118 WITH INPUT 150 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO MAKE UP AIR UNIT.
6	NEW 1" NATURAL GAS LINE TO CONNECT TO GWH-1 WITH INPUT 400 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO GAS WATER HEATER.
7	NEW 1-1/4" NATURAL GAS LINE TO CONNECT TO GENERATOR WITH INPUT 366 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO AIR HANDLING UNIT.

#	KEYNOTES
8	NEW EMERGENCY SHUT OFF VALVE.
9	NEW 2" NATURAL GAS LINE TO CONNECT TO B158A WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.
10	NEW 2" NATURAL GAS LINE TO CONNECT TO B158B WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.
11	NEW 2" NATURAL GAS LINE TO CONNECT TO B158C WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.
12	NEW 2" NATURAL GAS LINE TO CONNECT TO B158D WITH INPUT 3000 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO BOILER.
13	NEW 1" NATURAL GAS LINE TO CONNECT TO AHU 114D WITH INPUT 600 MBH. PROVIDE WITH 11.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO AIR HANDLING UNIT.
14	NEW 3" NATURAL GAS LINE TO CONNECT TO EXISTING BOILERS WITH INPUT 3000 MBH EACH. PROVIDE WITH 7.0 W.C. PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO EXISTING BOILERS.
15	EXISTING EMERGENCY SHUT OFF VALVE TO REMAIN.

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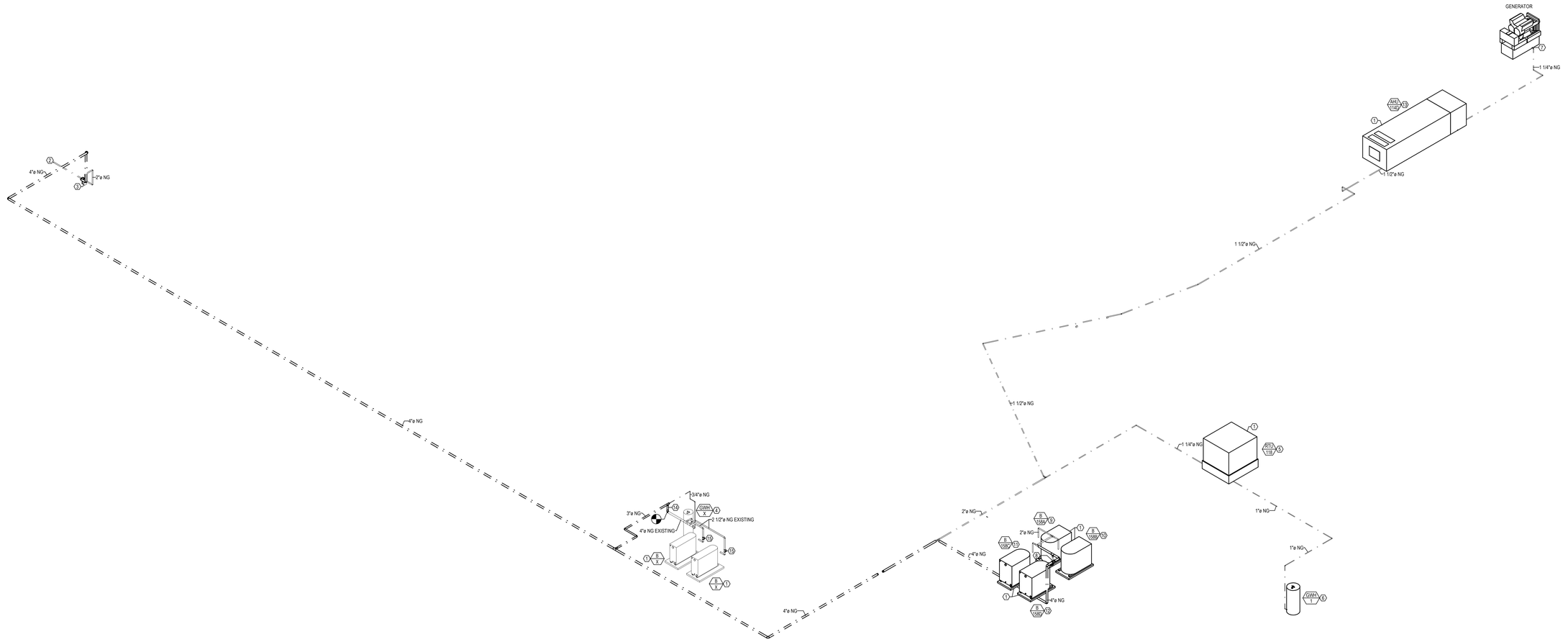

1 P-405 PLUMBING GAS RISER DIAGRAM
SCALE: N.T.S.

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PLUMBING GAS RISER DIAGRAM

P-405

BIDDING

MECHANICAL ABBREVIATIONS:

AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU(S) PER HOUR
CC	COOLING COIL
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT AIR VOLUME
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FC	FAN COIL
FD	FIRE DAMPER
FH	FUME HOOD
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FREEZE STAT
FSD	COMBINATION FIRE/SMOKE DAMPER
GA	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HD	HOOD OR HEAT DETECTOR
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR
HUM	HUMIDIFIER
HX	HEAT EXCHANGER
HZ	HERTZ
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
P	PUMP
PA	PASCAL
PH	PHASE
PRAD	CEILING RADIANT PANEL
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RO	RELIEF OPENING
RPM	REVOLUTIONS PER MINUTE
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DAMPER OR SMOKE DETECTOR
SF	SQUARE FEET OR SUPPLY FAN
SPS	STATIC PRESSURE SENSOR
T	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TO	TRANSFER OPENING
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
DP	DRY PENDENT SPRINKLER
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HC	HEATING CONTRACTOR
HH	HIGH HEAT SPRINKLER
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PLBG	PLUMBING CONTRACTOR
RM	ROOM
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
VC	VENTILATION CONTRACTOR

RENOVATION LEGEND:

<X>	EXISTING DIFFUSER TO REMAIN
<XRL>	EXISTING DIFFUSER TO BE RELOCATED
<XD>	EXISTING DIFFUSER TO BE REMOVED
<XNL>	EXISTING DIFFUSER IN NEW LOCATION
<N>	NEW

HYDRONIC FITTINGS:

- 45° ELBOW
- CAP
- 90° ELBOW
- ELBOW DOWN
- ELBOW UP
- TEE
- TEE DOWN
- TEE UP
- UNION
- FLEXIBLE CONNECTION
- PIPE CONTINUATION
- FLANGE

HYDRONIC SYSTEM ABBREVIATIONS:

	PIPE TO BE DEMOLISHED
D	DRAIN
NG	NATURAL GAS
LP	LIQUEFIED PETROLEUM
V	VENT
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CD	CONDENSATE DRAIN
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
MU	MAKEUP WATER
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
HPS	HIGH PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
LPS	LOW PRESSURE STEAM
HPC	HIGH PRESSURE STEAM CONDENSATE
MPC	MEDIUM PRESSURE STEAM CONDENSATE
LPC	LOW PRESSURE STEAM CONDENSATE
CR	CONDENSATE RETURN
PC	PUMPED CONDENSATE
VPD	VACUUM PUMP DISCHARGE
BBD	BOILER BLOWDOWN
FWS	BOILER FEEDWATER SUPPLY
H	HUMIDIFICATION LINE
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
A	COMPRESSED AIR
VAC	VACUUM AIR

HYDRONIC VALVES:

- TWO-POSITION 2-WAY VALVE
- MODULATING 2-WAY VALVE
- TWO-POSITION 3-WAY VALVE
- MODULATING 3-WAY VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DIFFERENTIAL PRESSURE VALVE
- FLOAT OPERATED VALVE
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE INDEPENDENT VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- TRIPLE DUTY VALVE
- BACKFLOW PREVENTER

HYDRONIC SPECIALTIES:

- FS — FLOW SWITCH
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- PRESSURE GAUGE
- PS — PRESSURE SWITCH
- PSD — PUMP SUCTION DIFFUSER
- THERMOMETER
- STRAINER, BLOW DOWN
- STRAINER, HOSE CONNECTION
- STRAINER
- ANCHOR
- PIPING GUIDE
- EXPANSION LOOP
- EXPANSION JOINT
- FM — FLOW METER

DUCT SYSTEM ABBREVIATIONS:

CA	COMBUSTION AIR
CV	COMBUSTION VENT
EA-AII	EXHAUST AIR - AIRBORNE INFECTIOUS ISOLATION
EA-CH	EXHAUST AIR - CHEMICAL
EA-D	EXHAUST AIR - DRYER
EA	EXHAUST AIR - ENVIRONMENTAL
EA-K1	TYPE 1 - KITCHEN EXHAUST
EA-K2	TYPE 2 - KITCHEN EXHAUST
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCT SYSTEMS:

- BD-# — BACKDRAFT DAMPER
- FD-# — FIRE DAMPER
- SD-# — SMOKE DAMPER
- FSD-# — COMBINATION FIRE SMOKE DAMPER
- MD-# — MOTORIZED DAMPER
- VOLUME DAMPER
- SIDEWALL GRILLE
- CEILING DIFFUSER, SUPPLY 4-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 3-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 2-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 1-WAY BLOW PATTERN
- CEILING DIFFUSER, RETURN
- CEILING DIFFUSER, EXHAUST
- UC — DOOR UNDERCUT
- DUCT SECTION, SUPPLY
- DUCT SECTION, RETURN
- DUCT SECTION, EXHAUST
- FLEXIBLE DUCT
- DIRECTION OF AIR FLOW
- DUCT SIZE TRANSITION
- RECTANGULAR ELBOW DOWN - SINGLE LINE
- ROUND ELBOW DOWN - SINGLE LINE
- RECTANGULAR ELBOW UP - SUPPLY
- RECTANGULAR ELBOW DOWN - SUPPLY
- ROUND ELBOW UP - SUPPLY
- ROUND ELBOW DOWN - SUPPLY
- RECTANGULAR ELBOW UP - RETURN
- RECTANGULAR ELBOW DOWN - RETURN
- ROUND ELBOW UP - RETURN
- ROUND ELBOW DOWN - RETURN
- RECTANGULAR ELBOW UP - EXHAUST
- RECTANGULAR ELBOW DOWN - EXHAUST
- ROUND ELBOW UP - EXHAUST
- ROUND ELBOW DOWN - EXHAUST
- MITERED ELBOW
- MITERED ELBOW WITH TURNING VANES
- ACCESS DOOR - TOP/SIDE
- AIR FLOW MEASURING STATION
- SOUND ATTENUATOR
- FLEXIBLE CONNECTION

HVAC SENSORS:

- CO2 — CARBON DIOXIDE
- CO — CARBON MONOXIDE
- DS — DEWPOINT
- G — GAS
- H — HUMIDITY
- NO — NITROGEN OXIDE
- P — RELATIVE PRESSURE MONITOR
- R — REFRIGERANT MONITOR
- SD — SMOKE DETECTOR
- SP — STATIC PRESSURE
- T — THERMOSTAT
- TS — TEMPERATURE

MECHANICAL EQUIPMENT:

PLAN / SYMBOL

- AIR SEPARATOR
- BASKET STRAINER
- EXPANSION TANK, FREE STANDING
- EXPANSION TANK, HANGING
- SIDE STREAM FILTER
- LOUVER
- HEAT EXCHANGER, PLATE AND FRAME
- HEAT EXCHANGER, SHELL AND TUBE
- T — STEAM TRAP
- VFD — VARIABLE FREQUENCY DRIVE
- CB — CONTROL BOX
- E — ENERGY METER
- M — NATURAL GAS METER
- PUMP (SEE SCHEDULE FOR TYPE)
- VARIABLE AIR VOLUME BOX
- VAV BOX WITH ELECTRIC REHEAT
- VAV BOX WITH HYDRONIC REHEAT
- ROUND IN / ROUND OUT VAV BOX
- FAN POWERED BOX

MECHANICAL TAGS:

- VISIBLE DIMENSION
- ##x## XX — DUCT DIMENSIONS (CLEAR, INTERNAL)
- SYSTEM ABBREVIATION
- TYPE: S - SUPPLY, R - RETURN, E - EXHAUST, T - TRANSFER
- SIZE (OPTIONAL)
- XX (E x J) / ### — DIFFUSER TAG
- AIR FLOW RATE
- MARK — MECHANICAL EQUIPMENT TAG
- NUMBER
- RISER X — RISER TAG
- NUMBER
- PIPE SIZE
- ##" XX — PIPE DIMENSION TAG
- SYSTEM ABBREVIATION
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION

GENERAL:

- ## — DRAWING KEYNOTE SYMBOL
- DETAIL NUMBER
- CALLOUT BOUNDARY
- SHEET NUMBER
- DETAIL NUMBER
- VIEW REFERENCE CALLOUT
- SHEET NUMBER
- •X' - X" — MOUNTING HEIGHT DESIGNATION

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR AS REQUIRED TO INSTALL A COMPLETE AND OPERABLE HVAC SYSTEM PER THE NEW ARCHITECTURAL LAYOUT AND AS TO COMPLY WITH THE SPECIFICATION, DETAILS,THIS SCOPE OF WORK AND ALL APPLICABLE CODES.
2. ALL WORK PERFORMED SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL NEW WORK WITH ALL TRADES PRIOR TO ANY WORK BEING DONE TO INSURE CONFLICTS DO NOT OCCUR.
4. DISRUPTION OF ANY EXISTING SERVICE SHALL BE CLEARED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND IN A MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
5. ALL DUCT SIZES INDICATED ON PLANS AND RISERS ARE CLEAR INSIDE DIMENSIONS. DUCT SIZES NOT SHOWN SHALL BE SIZED TO VELOCITIES NO GREATER THAN UPSTREAM SECTION USING SIMILAR ASPECT RATIOS.
6. ALL SUPPLY AIR TAKEOFFS FROM MAIN TRUNK DUCTS ARE TO BE INSTALLED WITH BELL MOUTH FITTINGS OR 45 DEGREE ENTRY TO PROVIDE THE SMOOTHEST AIR FLOW POSSIBLE.
7. PROVIDE TURNING VANES IN ALL LOW-PRESSURE 90-DEGREE DUCT TURNS.
8. ALL THERMOSTAT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.
9. ALL DUCTS LOCATED ABOVE INACCESSIBLE CEILINGS ARE TO BE BALANCED PRIOR TO CEILING INSTALLATIONS.
10. CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR SERVICE AND MAINTENANCE OF ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILINGS.
11. PROVIDE GUIDES, HANGERS, EXPANSION LOOPS AND SUPPLEMENTARY STEEL SUPPORT WHERE REQUIRED FOR ALL PIPING.
12. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM E84 OR UL 723. PVC VENT PIPING IN PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
13. CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATEDFLOORS AND WALLS CREATED BY DEMOLITION OR NEW WORK WITH"SPECSEAL SSS" OR EQUAL.
14. FIRE CAULK ALL PENETRATIONS THRU FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION.
15. CAULK ALL PENETRATIONS THRU WALLS TO MINIMIZE SOUND PENETRATION THRU WALLS.
16. ROUTE LINE SIZE PVC CONDENSATE DRAIN PIPING FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE TRAP AT CONNECTION TO AIR HANDLING UNIT.
17. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS/FLOORS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
18. PROVIDE FLEXIBLE CONNECTIONS ON ALL PIPING PENETRATIONS BACK TO BACK 2 HOUR RATED FIRE WALLS TO ALLOW FOR EXPANSION BETWEEN THE WALLS.
19. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS IN THE DUCTWORK WHERE INDICATED ON THE PLANS AND REQUIRED BY CODE. FIRE DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER. ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE WORDS "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS SHALL NOT BE LESS THAN 1/2 INCH IN HEIGHT.

DUCT INSULATION NOTES:

ALL EXPOSED DUCTWORK IN CONDITIONED SPACES OR SPIRAL DUCT	NONE
ALL EXTERIOR DUCTWORK	MIN. R-12
ALL CONCEALED SUPPLY AND RETURN DUCT	MIN. R-6
ALL EXHAUST UP TO 10'-0" FROM DISCHARGE	MIN. R-6
ALL HEATING AND COOLING HYDRONIC PIPING	MIN. 2"
CONDENSATE PIPING	MIN. 1"

NOTE:
ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEM OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

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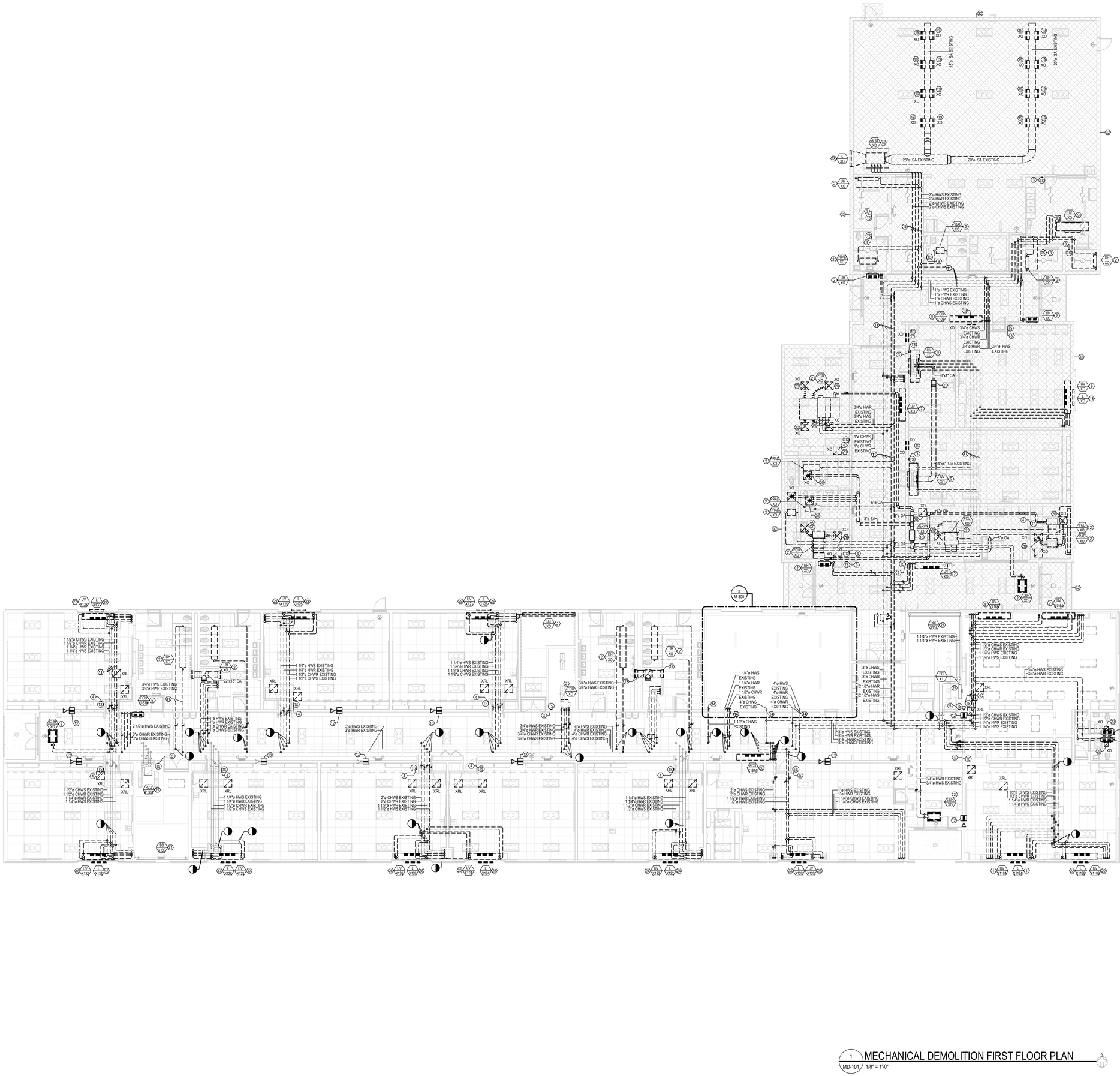
REVIEWED BY	RK

MECHANICAL LEGEND

M-000

BIDDING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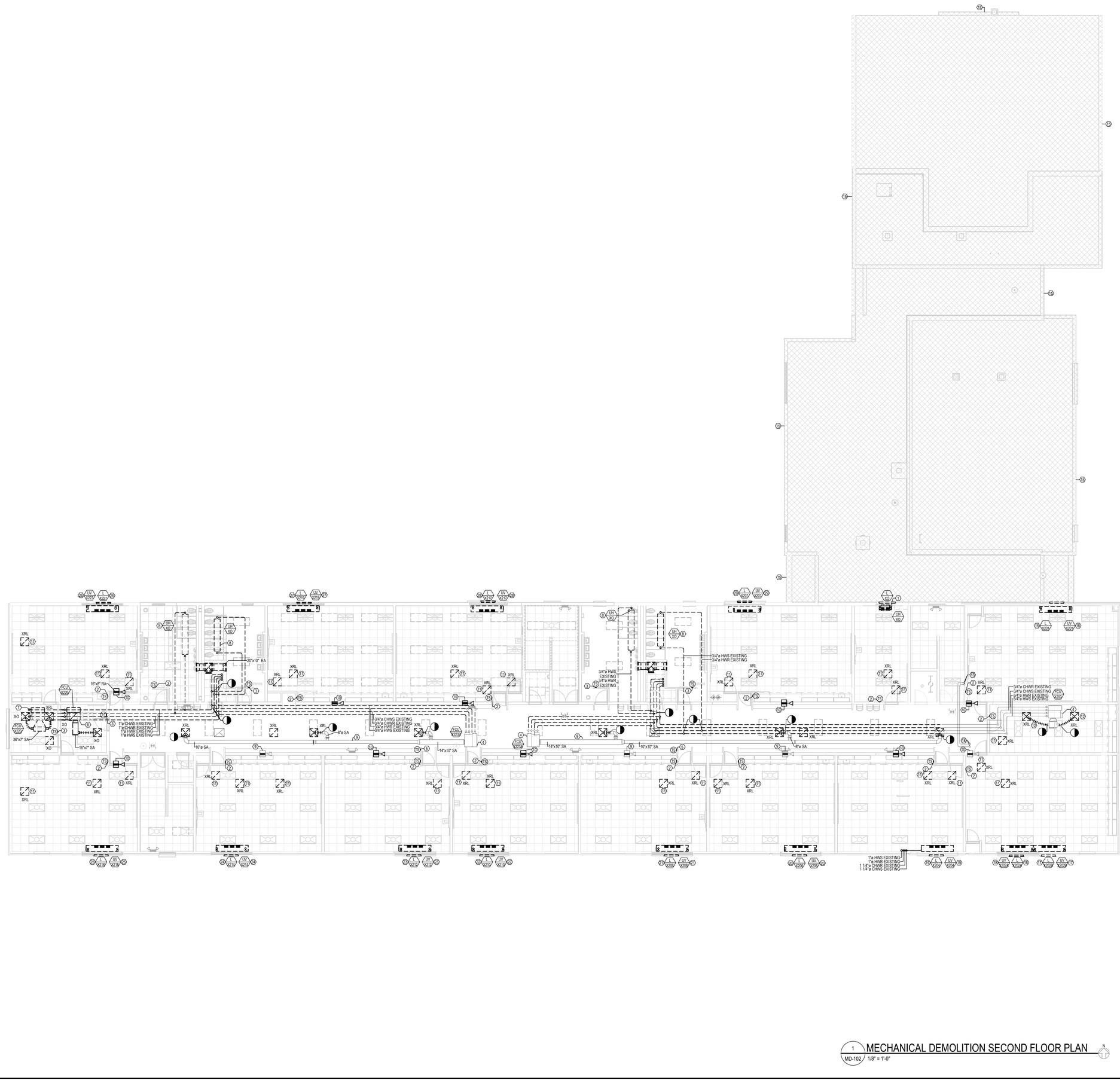

1 MECHANICAL DEMOLITION SECOND FLOOR PLAN
MD-102 1/8" = 1'-0"

GENERAL NOTES:

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
2. ITEMS SHOWN BOLD AND/OR DASHED ON THE DEMOLITION SHEETS INDICATE ITEMS TO BE REMOVED.
3. OWNER HAS FINAL RIGHT OF REFUSAL FOR ALL EQUIPMENT BEING REMOVED. CONTRACTOR TO DISPOSE OF EQUIPMENT BEING REMOVED BUT NOT RETAINED BY OWNER.

 # KEYNOTES

1 EXISTING UNIT VENTILATOR TO BE DEMOLISHED. DEMOLISH ALL PIPING BACK TO HYDRONIC MAIN ON FIRST FLOOR. PATCH FLOOR TO MATCH EXISTING. DEMOLISH ALL DUCTWORK BACK TO UNIT. EXISTING LOUVER AND PATCH WALL TO MATCH EXISTING. DEMOLISH ALL CONTROL WIRING BACK TO THERMOSTAT.

2 EXISTING THERMOSTAT TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATED THERMOSTAT.

3 EXISTING THERMOSTAT TO BE DEMOLISHED. DEMOLISH ALL CONTROL WIRES BACK TO CORRESPONDING UNIT. PATCH WALL TO MATCH EXISTING.

4 EXISTING MECHANICAL EQUIPMENT TO REMAIN.

5 EXISTING THERMOSTAT TO REMAIN.

6 EXISTING FAN COIL FCU-X220 TO BE RELOCATED. FAN COIL UNIT TO BE RENAMED AND RELABELED TO FCU-139. EXISTING CORRESPONDING CONTROL WIRING TO BE RELOCACTED. EXISTING CORRESPONDING DUCTWORK AND PIPING TO BE DEMOLISHED BACK TO MAIN.

7 EXISTING MECHANICAL EQUIPMENT UNIT TO BE DEMOLISHED IN IT ENTIRETY. DEMOLISH ALL CORRESPONDING DUCTWORK BACK TO UNIT. DEMOLISH ALL DIFFUSERS BACK TO DUCTWORK MAINS. DEMOLISH ALL PIPING BACK TO MAINS IN CEILING. DEMOLISH ALL CONTROLS DAMPERS AND WIRING BACK TO THERMOSTATS.

8 EXISTING MECHANICAL UNIT TO BE DEMOLISHED. DEMOLISH ALL PIPING BACK TO MAINS. DEMOLISH ALL CONTROL VALVES AND WIRING.

9 EXISTING DUCT WORK TO REMAIN.

10 EXISTING DUCTWORK AND FIRE DAMPER TO BE DEMOLISHED. PATCH WALL TO MATCH EXISTING.

11 EXISTING DIFFUSER TO BE DEMOLISHED IN SUCH A WAY TO BE RESUED AND RELOCATED.

12 EXISTING DIFFUSER TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE. DEMOLISH CORRESPONDING DUCTWORK BACK TO MAINS.

13 EXISTING REFRIGERANT PIPING TO CONTINUE UP FROM FIRST FLOOR TO REMAIN. SEE SHEET MD-101 FOR MORE INFORMATION.

14 EXISTING REFRIGERANT PIPING TO CONTINUE UP TO ROOF TO REMAIN. SEE SHEET MD-103 FOR MORE INFORMATION.

15 EXISTING BUILDING TO BE DEMOLISHED. EXISTING MECHANICAL EQUIPMENT TO BE COORDINATED AND DEMOLISHED AS NOTED

16 EXISTING UNIT VENTILATOR UV-X201 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-201B. EXISTING LOUVER L-X201 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-201B. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

17 EXISTING UNIT VENTILATOR UV-X202B TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-202C. EXISTING LOUVER L-X202B TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-202C. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

18 EXISTING UNIT VENTILATOR UV-X202A TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-202B. EXISTING LOUVER L-X202A TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-202B. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

19 EXISTING UNIT VENTILATOR UV-X204 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-202A. EXISTING LOUVER L-X204 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-202A. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

20 EXISTING UNIT VENTILATOR UV-X206 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-204A. EXISTING LOUVER L-X206 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-204A. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

21 EXISTING UNIT VENTILATOR UV-X208 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-206B. EXISTING LOUVER L-X208 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-206B. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

22 EXISTING UNIT VENTILATOR UV-X210 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-214B. EXISTING LOUVER L-X210 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-214B. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

23 EXISTING UNIT VENTILATOR UV-X212 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-214A. EXISTING LOUVER L-X212 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-214A. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

24 EXISTING UNIT VENTILATOR UV-X214 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-216A. EXISTING LOUVER L-X214 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-216A. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

25 EXISTING UNIT VENTILATOR UV-X218 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-220B. EXISTING LOUVER L-X218 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-220B. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

26 EXISTING UNIT VENTILATOR UV-X227 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-216B. EXISTING LOUVER L-X227 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-216B. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

27 EXISTING UNIT VENTILATOR UV-X219 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-206A. EXISTING LOUVER L-X219 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-206A. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

28 EXISTING UNIT VENTILATOR UV-X217 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-204B. EXISTING LOUVER L-X217 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-204B. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

29 EXISTING UNIT VENTILATOR UV-X207 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. UNIT VENTILATOR TO BE RELABELED TO UV-220A. EXISTING LOUVER L-X207 TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION. EXISTING LOUVER TO BE RELABELED TO L-220A. EXISTING CORRESPONDING DDC CONTROL WIRING TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED. ALL CORRESPONDING DUCTWORK AND CONTROL VALVES TO DEMOLISHED. PATCH WALL TO MATCH EXISTING.

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DRAWN BY	BMA
REVIEWED BY	RK

MECHANICAL DEMOLITION SECOND FLOOR PLAN

MD-102

BIDDING



GENERAL NOTES:

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
2. ITEMS SHOWN BOLD AND/OR DASHED ON THE DEMOLITION SHEETS INDICATE ITEMS TO BE REMOVED.
3. OWNER HAS FINAL RIGHT OF REFUSAL FOR ALL EQUIPMENT BEING REMOVED. CONTRACTOR TO DISPOSE OF EQUIPMENT BEING REMOVED BUT NOT RETAINED BY OWNER.

#	KEYNOTES
1	EXISTING DUCT WORK TO REMAIN.
2	EXISTING EXHAUST FAN TO BE DEMOLISHED. DEMOLISH ALL CORRESPONDING DUCTWORK, DIFFUSERS, DAMPERS, AND CONTORLS. PATCH ROOF TO MATCH EXISTING.
3	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
4	EXISTING CHILLER TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE CHILLER. DEMOLISH EXISTING PAD AND PATCH ROOF TO MATCH EXISTING. EXISTING CORRESPONDING PIPING TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
5	EXISTING 10" EXHAUST DUCT TO CONTINUE UP TO SECOND FLOOR TO BE DEMOLISHED BACK TO ROOF. SEE SHEET MD-102 FOR MORE INFORMATION.
6	EXISTING REFRIGERANT PIPING TO CONTINUE UP FROM SECOND FLOOR TO REMAIN. SEE SHEET MD-102 FOR MORE INFORMATION.
7	EXISTING 4" CHWS AND 4" CHWR LINES DOWN TO FIRST FLOOR TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL. SEE SHEET MD-101 FOR MORE INFORMATION.
8	EXISTING BUILDING TO BE DEMOLISHED. EXISTING MECHANICAL EQUIPMENT TO BE COORDINATED AND DEMOLISHED AS NOTED.

1 MD-103 MECHANICAL DEMOLITION ROOF PLAN
1/8" = 1'-0"



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REVIEWED BY	RK

MECHANICAL
DEMOLITION ROOF PLAN

MD-103

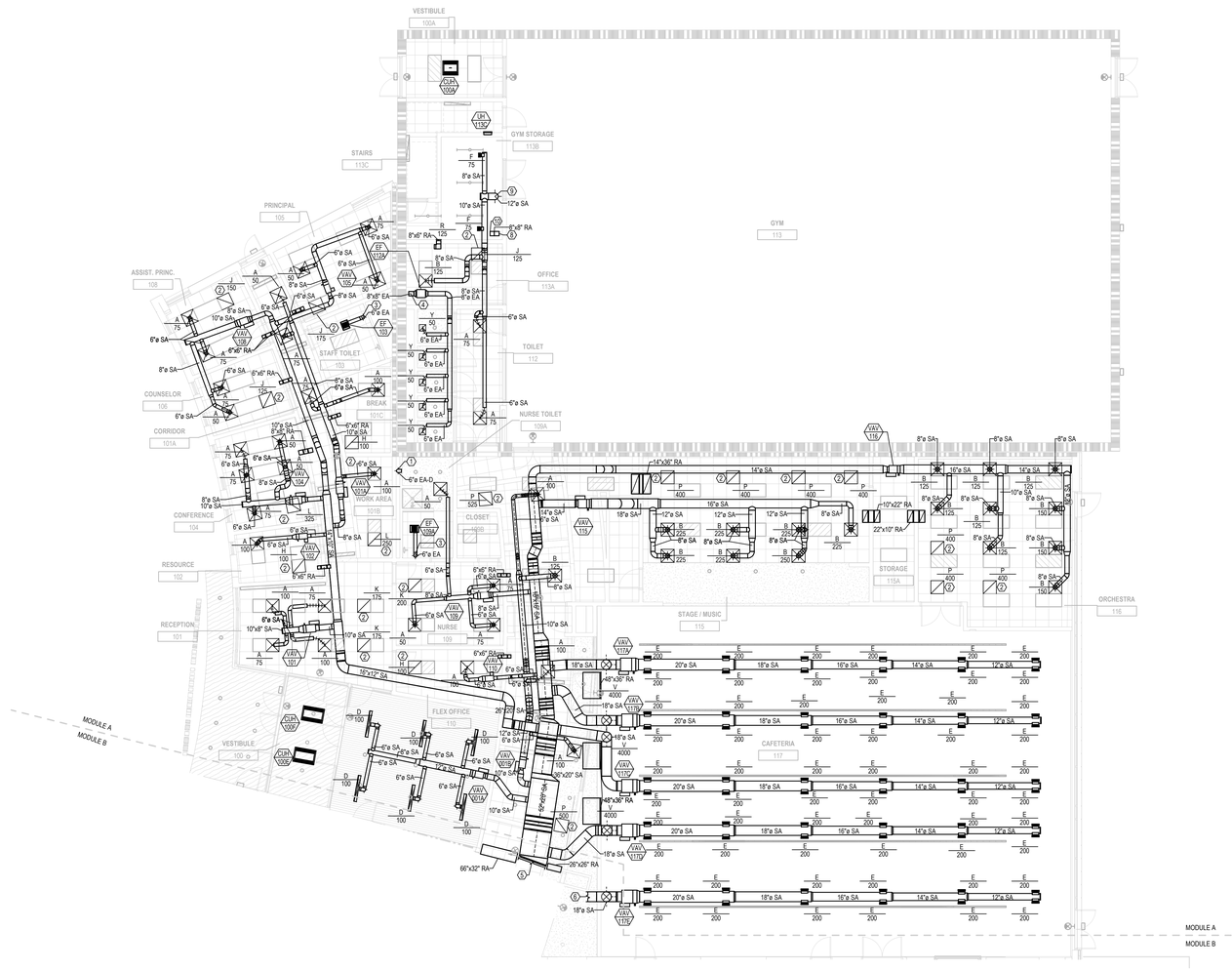
BIDDING

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

1 NEW 6" EXHAUST DRYER DUCT TO CONTINUE UP TO ROOF. SEE SHEET M-103A FOR MORE INFORMATION.
2 PROVIDE RETURN AIR CANOPY OFF RETURN DIFFUSER FOR PLENUM RETURN.
3 NEW 6" EXHAUST DUCT TO CONTINUE UP TO WEATHER CAP ON ROOF. SEE SHEET M-103A FOR MORE INFORMATION.
4 NEW 8"X8" EXHAUST DUCT TO CONTINUE UP TO SECOND FLOOR. SEE SHEET M-102A FOR MORE INFORMATION.
5 NEW 52"X20" SUPPLY DUCT TO CONTINUE BACK TO BUILDING MAIN. SEE SHEET M-101B FOR MORE INFORMATION.
6 NEW 18" SUPPLY DUCT TO CONTINUE TO BUILDING MAIN. SEE SHEET M-101B FOR MORE INFORMATION.
8 NEW 8"X8" RETURN DUCT TO CONTINUE UP TO SECOND FLOOR. SEE SHEET M-102A FOR MORE INFORMATION.
9 NEW 12" SUPPLY DUCT DOWN FROM SECOND FLOOR. SEE SHEET M-102A FOR MORE INFORMATION.
10 NEW 8"X8" RETURN DUCT TO HAVE WIRE MESH INSTALLED.



1 M-101A — MECHANICAL FIRST FLOOR HVAC PLAN - MODULE A
1/8" = 1'-0"

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DATE

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REVIEWED BY	RK

MECHANICAL FIRST FLOOR HVAC PLAN - MODULE A

M-101A

BIDDING


MODULE A
MODULE B
MODULE B
MODULE C
TOILET 112
IDF 111
STAIR S100
ELEVATOR E100
2ND GRADE 150
2ND GRADE 149
2ND GRADE 148
2ND GRADE 147
1ST GRADE 146
1ST GRADE 145
1ST GRADE 144
1ST GRADE 143
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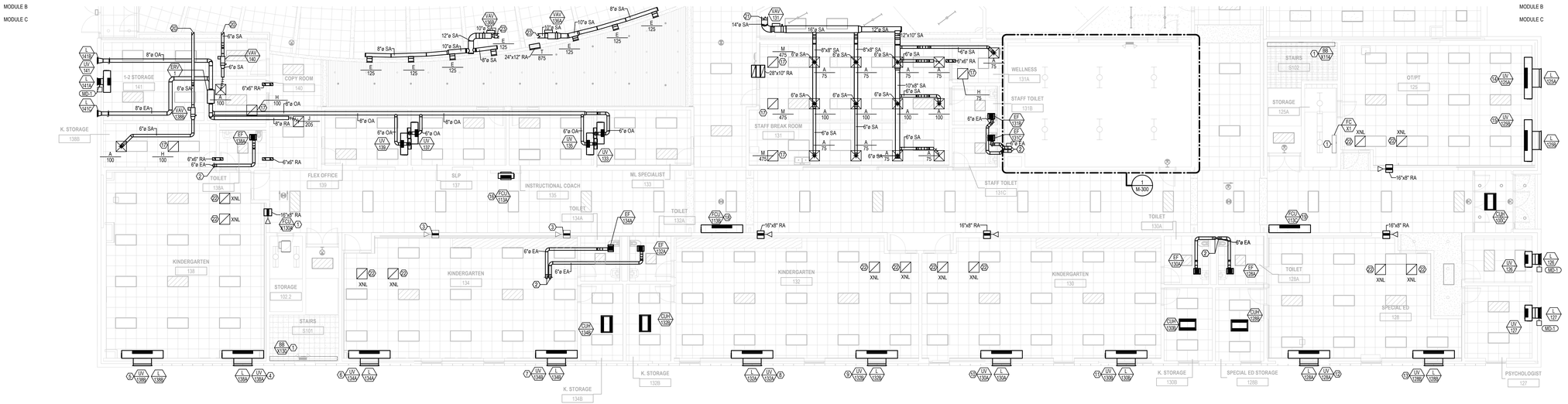
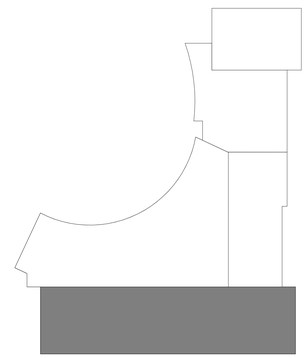
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

1 EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2 NEW 8" EXHAUST DUCT TO CONTINUE UP SECOND FLOOR. SEE SHEET M-102C FOR MORE INFORMATION.
3 EXISTING FIRE DAMPER AND CORRESPONDING DUCTWORK TO REMAIN.
4 EXISTING UNIT VENTILATOR UV-X133 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-140. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
5 EXISTING UNIT VENTILATOR UV-132 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-140B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
6 EXISTING UNIT VENTILATOR UV-128 TO RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-134A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
7 EXISTING UNIT VENTILATOR UV-125 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-134B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
8 EXISTING UNIT VENTILATOR UV-124 TO RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-132A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
9 EXISTING UNIT VENTILATOR UV-126 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-132B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
10 EXISTING UNIT VENTILATOR UV-122 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-130A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
11 EXISTING UNIT VENTILATOR UV-120 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-130B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
12 EXISTING UNIT VENTILATOR UV-123 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-128A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
13 EXISTING UNIT VENTILATOR UV-118A TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-128B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
14 EXISTING UNIT VENTILATOR UV-116A TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-125A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
15 EXISTING UNIT VENTILATOR UV-116B TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-125B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
16 EXISTING FAN COIL UNIT FCU-137B TO BE RELOCATED. FAN COIL UNIT TO BE RENAMED AND RELABELED TO FCU-113A.
17 PROVIDE RETURN AIR CANOPY OFF RETURN DIFFUSER FOR PLENUM RETURN.
18 EXISTING FAN COIL UNIT FCU-X137A TO BE RELOCATED. FAN COIL UNIT TO BE RENAMED AND RELABELED TO FCU-113B.
19 EXISTING FAN COIL UNIT FCU-X103 TO BE RELOCATED. FAN COIL UNIT TO BE RENAMED AND RELABELED TO FCU-113C.
20 NEW 8" SUPPLY DUCT TO CONTINUE BACK TO DUCT MAIN. SEE SHEET M-101B FOR MORE INFORMATION.
21 NEW 14" SUPPLY DUCT TO CONTINUE BACK TO DUCT MAIN. SEE SHEET M-101B FOR MORE INFORMATION.
22 EXISTING DIFFUSER TO BE RELOCATED IN NEW CEILING GRID. CLEAN DIFFUSER TO APPEAR AS NEW.
23 NEW 10" SUPPLY DUCT TO CONTINUE BACK TO BUILDING MAIN. SEE SHEET M-101B FOR MORE INFORMATION.



1 M-101C — MECHANICAL FIRST FLOOR HVAC PLAN - MODULE C
1/8" = 1'-0"



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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/2025
DRAWN BY	BMA
REVIEWED BY	RK

MECHANICAL FIRST FLOOR HVAC PLAN - MODULE C

M-101C

BIDDING

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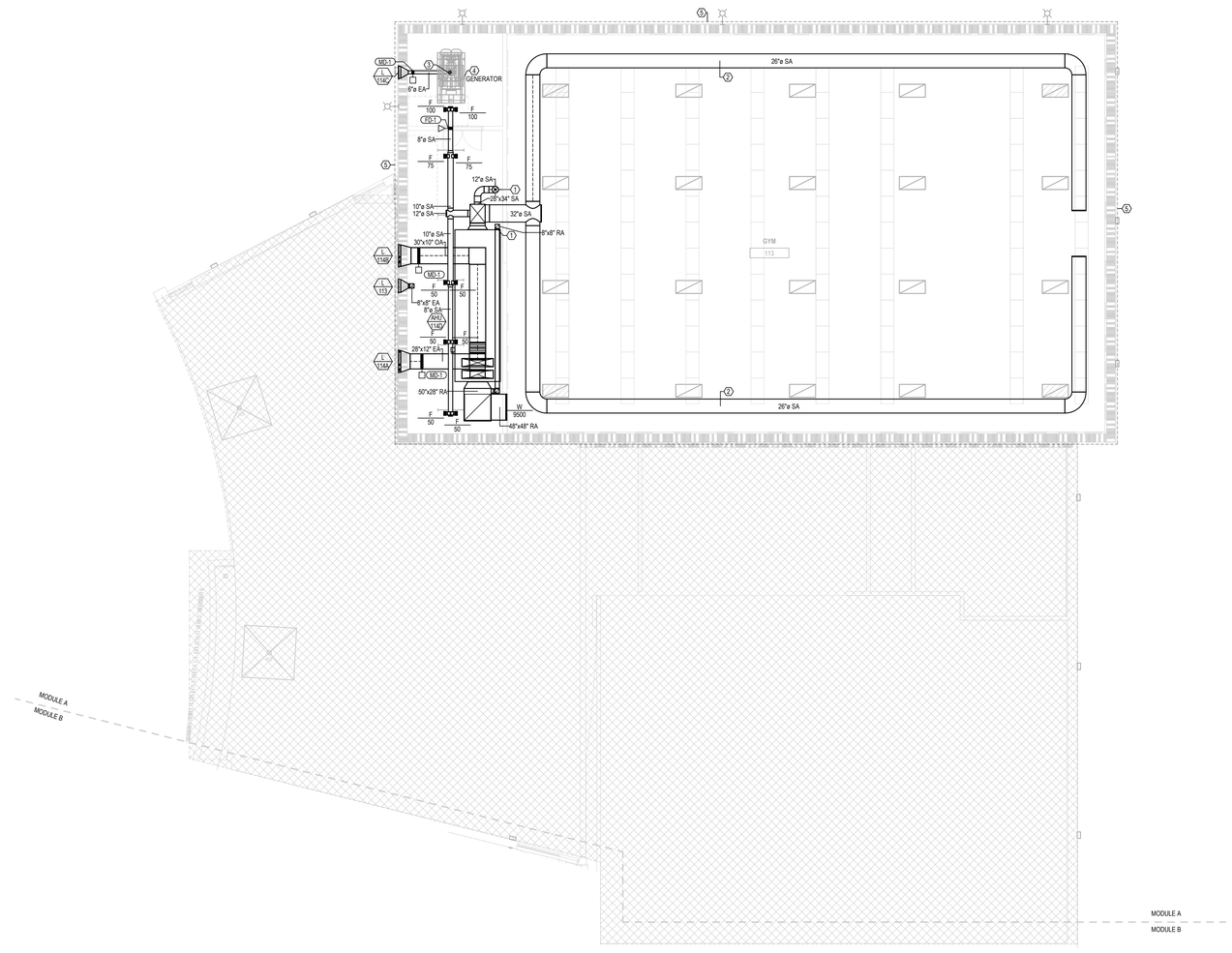
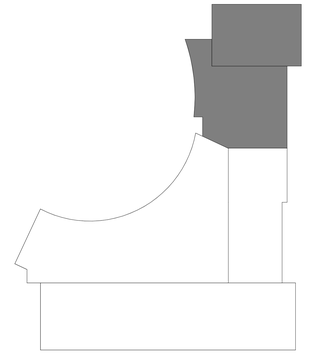
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

#	KEYNOTES
1	NEW 12" SUPPY DUCT TO CONTINUE DOWN TO FIRST FLOOR. NEW 8"X8" RETURN DUCT UP FROM FIRST FLOOR. SEE SHEET M-103A FOR MORE INFORMATION.
2	NEW 26" DUCT BRANCH TO BE DUCT SOCK. BRANCH TO BE BALANCED TO 4750 CFM. COORDINATE EXACT COLOR WITH ARCHITECT
3	NEW 6" EXHAUST DUCT TO CONTINUE TO CONNECT GENERATOR EXHAUST FLUE.
4	ELECTRICAL EQUIPMENT TO BE SHOWN AS REFERENCE ONLY. SEE ELECTRICAL SHEETS FOR MORE INFORMATION.
5	DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER, REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALL AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALL PER ICC-500,2014. PENETRATIONS EXCEEDING 3-12 SQUARE INCHES (RECTANGULAR) OR 2-1/2" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 309.1



1 / M-102A MECHANICAL SECOND FLOOR HVAC PLAN - MODULE A
1/8" = 1'-0"



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PROJECT NUMBER	224150.00
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REVIEWED BY	RK

MECHANICAL SECOND FLOOR HVAC PLAN - MODULE A

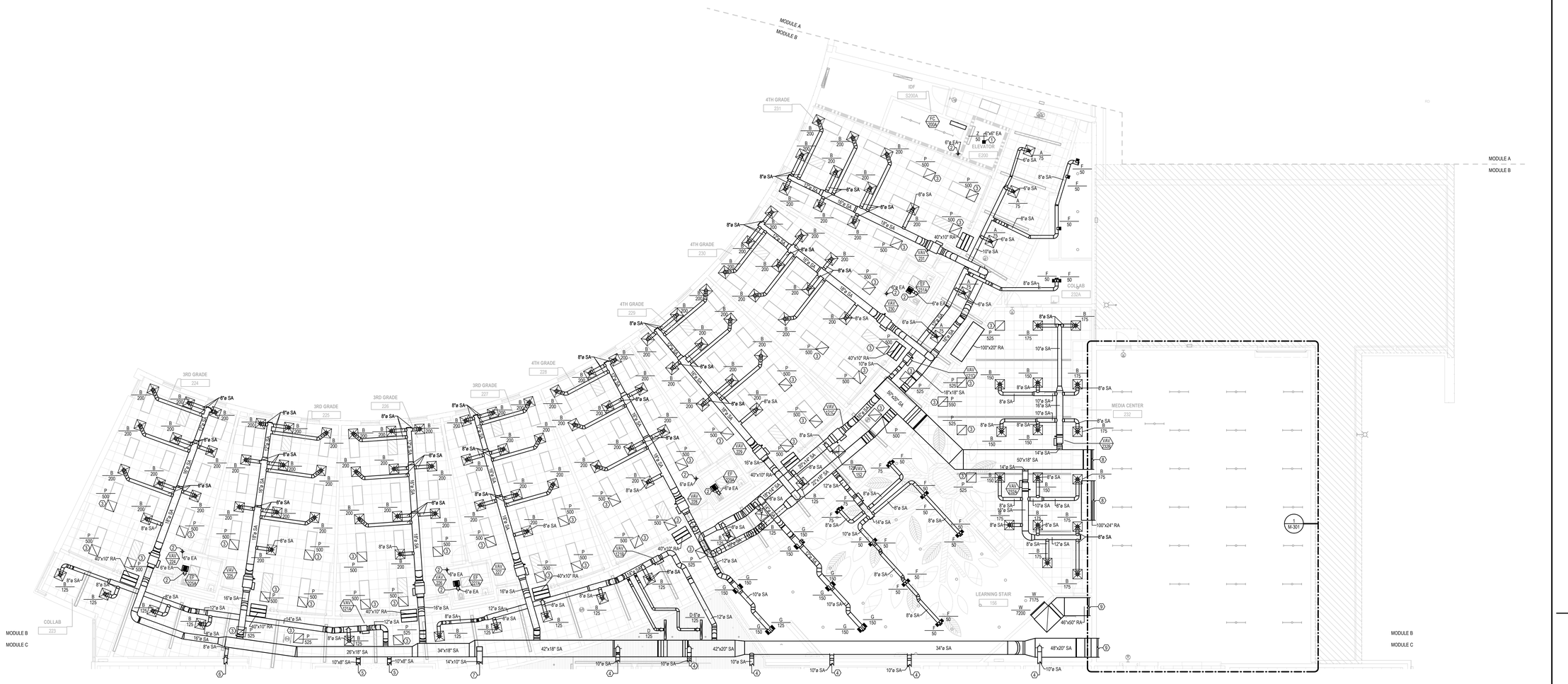
M-102A

BIDDING

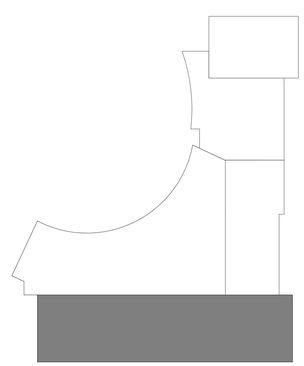
GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

#	KEYNOTES
1	NEW 6"X6" EXHAUST DUCT TO CONTINUE UP TO EXHAUST FAN EF-E200 ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
2	NEW 6" EXHAUST DUCT TO CONTINUE UP TO WEATHER CAP ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
3	PROVIDE RETURN AIR CANOPY OFF RETURN DIFFUSER FOR PLENUM RETURN.
4	NEW 10" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-102C FOR MORE INFORMATION.
5	NEW 10"X8" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-102C FOR MORE INFORMATION.
6	NEW 8" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-102C FOR MORE INFORMATION.
7	NEW 14"X10" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-102C FOR MORE INFORMATION.
8	NEW 50"X20" SUPPLY DUCT FROM CORRESPONDING MECHANICAL EQUIPMENT. NEW 100"X24" RETURN DUCT TO CONTINUE BACK TO CORRESPONDING MECHANICAL EQUIPMENT. SEE SHEET M-301 FOR MORE INFORMATION.
9	NEW 48"X20" SUPPLY DUCT FROM CORRESPONDING MECHANICAL EQUIPMENT. NEW 46"X50" RETURN DUCT TO CONTINUE BACK TO CORRESPONDING MECHANICAL EQUIPMENT. SEE SHEET M-301 FOR MORE INFORMATION.



1 MECHANICAL SECOND FLOOR HVAC PLAN - MODULE B
M-102B 1/8" = 1'-0"



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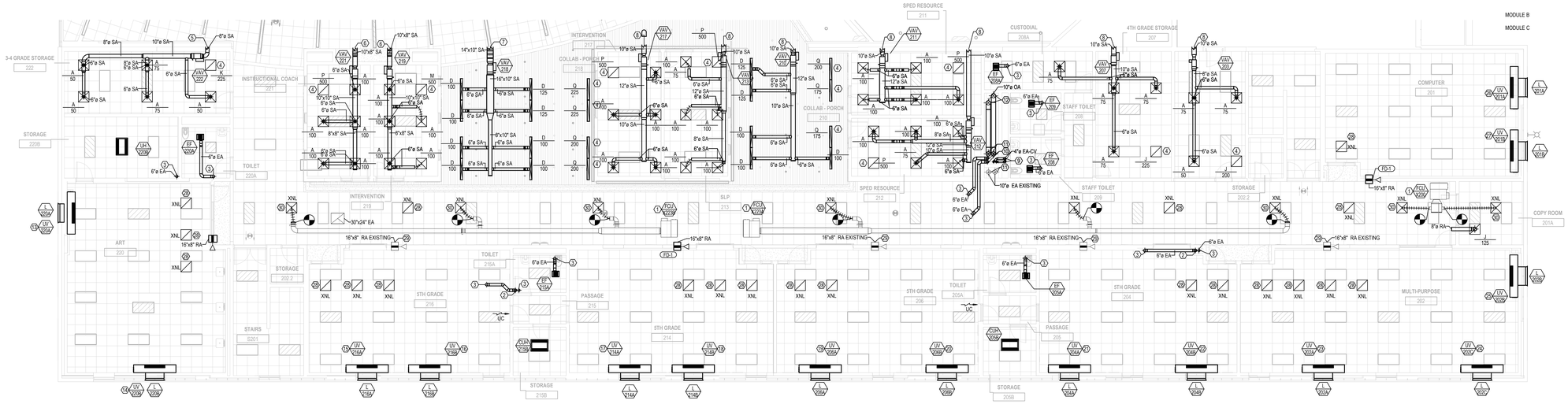
REVIEWED BY	RK

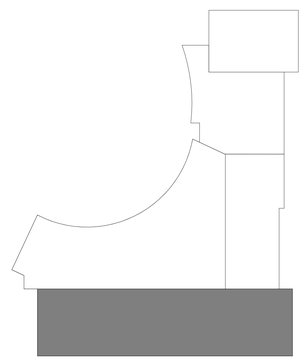
MECHANICAL SECOND FLOOR HVAC PLAN - MODULE B

M-102B

BIDDING



1 M-102C MECHANICAL SECOND FLOOR HVAC PLAN - MODULE C
1/8" = 1'-0"



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3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

1 EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2 NEW 6" EXHAUST DUCT UP FROM FIRST FLOOR. SEE SHEET M-101B FOR MORE INFORMATION.
3 NEW 6" EXHAUST DRYER DUCT TO CONTINUE UP TO ROOF. SEE SHEET M-103C FOR MORE INFORMATION.
4 PROVIDE RETURN AIR CANOPY OFF RETURN DIFFUSER FOR PLENUM RETURN.
5 NEW 8" SUPPLY DUCT TO CONTINUE BACK TO DUCT MAIN. SEE SHEET M-102B FOR MORE INFORMATION.
6 NEW 10"X8" SUPPLY DUCT TO CONTINUE BACK TO DUCT MAIN. SEE SHEET M-102B FOR MORE INFORMATION.
7 NEW 14"X10" SUPPLY DUCT TO CONTINUE BACK TO DUCT MAIN. SEE SHEET M-102B FOR MORE INFORMATION.
8 NEW 10" SUPPLY DUCT TO CONTINUE BACK TO DUCT MAIN. SEE SHEET M-102B FOR MORE INFORMATION.
9 NEW 4" CONCENTRIC VENT DUCTS TO CONTINUE UP TO ROOF. SEE SHEET M-103C FOR MORE INFORMATION.
10 NEW 6" EXHAUST DUCT UP FROM FIRST FLOOR. SEE SHEET M-101C FOR MORE INFORMATION.
11 NEW 10" OUTSIDE AIR DUCT TO CONTINUE DOWN TO BOILER ROOM. EXISTING 10" EXHAUST DUCT UP FROM BOILER ROOM TO REMAIN. SEE SHEET M-300 FOR MORE INFORMATION.
12 NEW 10" OUTSIDE AIR DUCT DOWN FROM ROOF. SEE SHEET M-103C FOR MORE INFORMATION.
13 EXISTING UNIT VENTILATOR UV-X207 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-220A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
14 EXISTING UNIT VENTILATOR UV-X218 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-220B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
15 EXISTING UNIT VENTILATOR UV-X214 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-216A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
16 EXISTING UNIT VENTILATOR UV-X227 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-216B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
17 EXISTING UNIT VENTILATOR UV-X212 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-214A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
18 EXISTING UNIT VENTILATOR UV-X210 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-214B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
19 EXISTING UNIT VENTILATOR UV-X219 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-206A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
20 EXISTING UNIT VENTILATOR UV-X208 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-206B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
21 EXISTING UNIT VENTILATOR UV-X206 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-204A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
22 EXISTING UNIT VENTILATOR UV-X217 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-204B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
23 EXISTING UNIT VENTILATOR UV-X204 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-202A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
24 EXISTING UNIT VENTILATOR UV-X202B TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-202C. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
25 EXISTING UNIT VENTILATOR UV-X202A TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-202B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
26 EXISTING UNIT VENTILATOR UV-X118B TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-201A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
27 EXISTING UNIT VENTILATOR UV-X201 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-201B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
28 EXISTING DIFFUSER TO BE RELOCATED IN NEW CEILING GRID. CLEAN DIFFUSER TO APPEAR AS NEW.
29 EXISTING FIRE DAMPER AND CORRESPONDING DUCTWORK TO REMAIN.
30 EXISTING DIFFUSER TO BE RELOCATED IN NEW CEILING GRID. RECONNECT TO EXISTING DUCTWORK. CLEAN DIFFUSER TO APPEAR AS NEW.

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REVIEWED BY	RK

MECHANICAL SECOND FLOOR HVAC PLAN - MODULE C

M-102C

BIDDING

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
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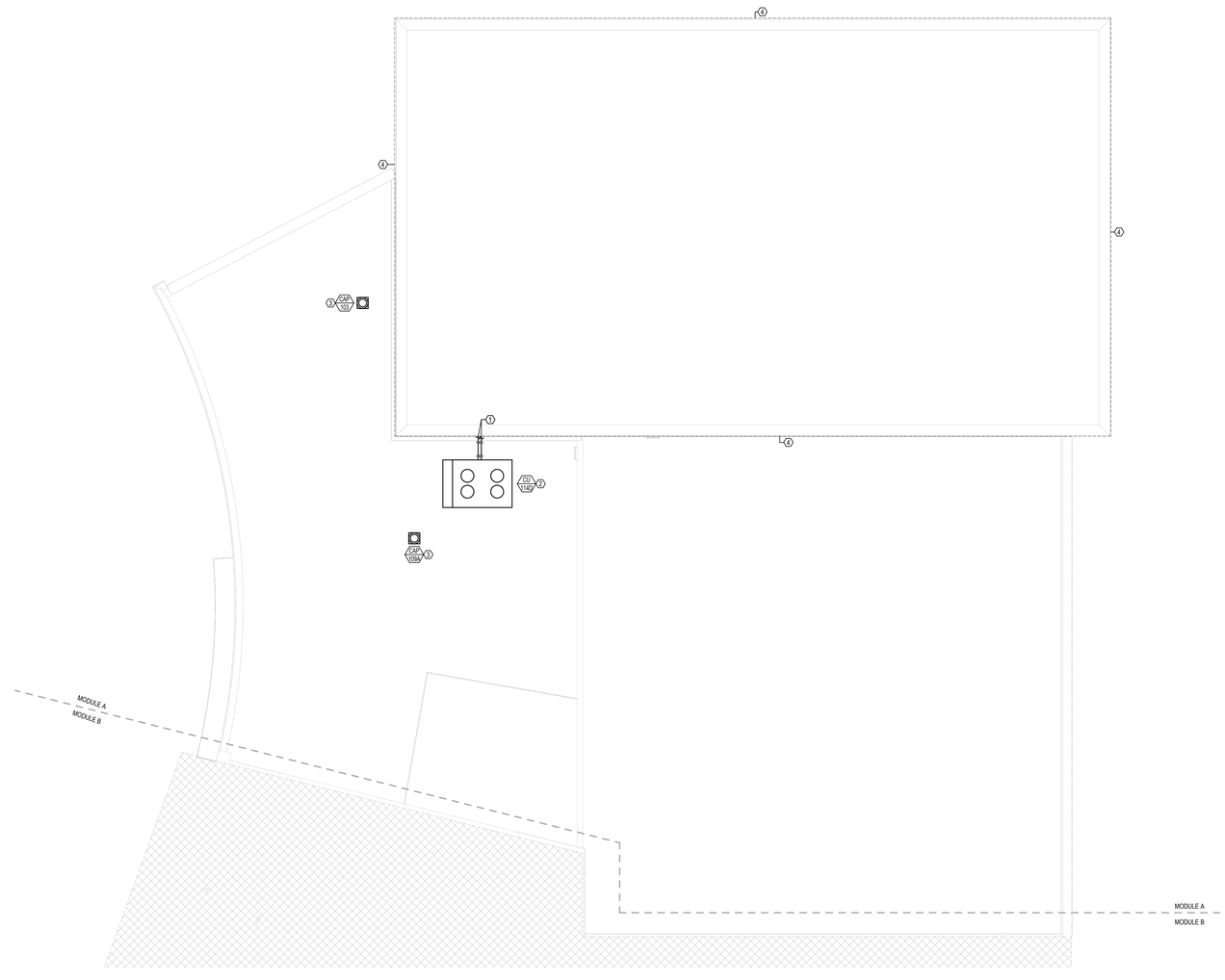
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

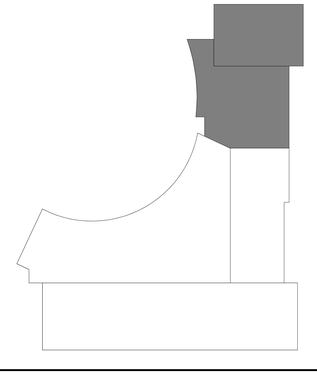
1. REFRIGERANT PIPING TO CONTINUE UP TO SECOND FLOOR MEZZANINE. COORDIANTE REFRIGERANT PIPE SIZE WITH MANUFACTURER. SEE SHEET M-202A FOR MORE INFORMATION.
2. SEE CONTROL SHEET M-409 FOR MORE INFORMATION.
3. NEW EXHAUST RELIEF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE. SEE SHEET M-408 FOR MORE INFORMATION.
4. DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALL AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALL PER ICC-500,2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (RECTANGULAR) OR 2-1/2" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 309.1



1 / M-103A MECHANICAL ROOF PLAN - MODULE A

1/8" = 1'-0"

N



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REVIEWED BY	RK

MECHANICAL ROOF PLAN - MODULE A

M-103A

BIDDING

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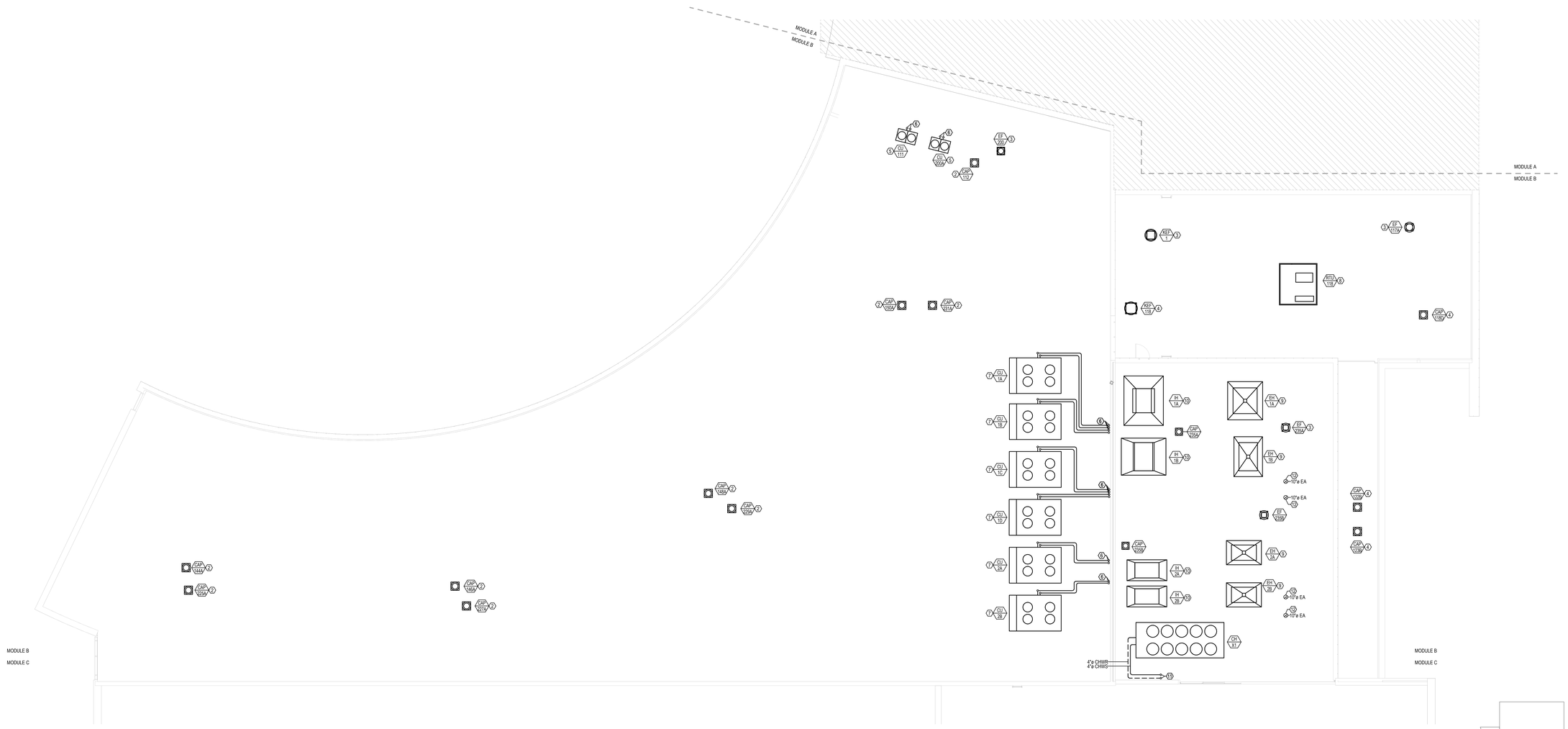
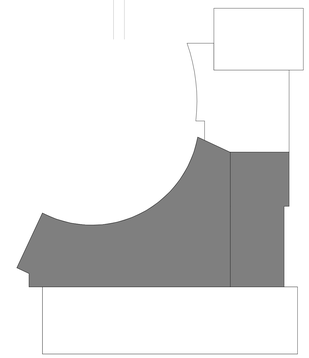
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

#	KEYNOTES
2	NEW EXHAUST RELIEF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE. SEE SHEET M-408 FOR MORE INFORMATION.
3	NEW EXHAUST FAN TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE. SEE SHEET M-408 FOR MORE INFORMATION.
4	SEE CONTROL SHEET M-408 FOR MORE INFORMATION.
5	SEE CONTROL SHEET M-403 FOR MORE INFORMATION.
6	REFRIGERANT PIPING UP FROM SECOND FLOOR. COORDIANTE REFRIGERANT PIPE SIZE WITH MANUFACTURER. SEE SHEET M-202B FOR MORE INFORMATION.
7	SEE CONTROL SHEET M-401 FOR MORE INFORMATION.
8	SEE CONTROL SHEET M-501 FOR MORE INFORMATION.
9	NEW EXHAUST RELIEF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE.
10	NEW INTAKE HOOD TO BE A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST RELIEF OR VENT.
11	NEW 4" CHWR AND 4" CHWS UP FROM SECOND FLOOR. SEE SHEET M-202B FOR MORE INFORMATION.
12	NEW 10" EXHAUST FLUE UP FROM SECOND FLOOR. EXHAUST FLUE TO HAVE BIRD SCREEN INSTALLED AT TOP OF FLUE. SEE SHEET M-301 FOR MORE INFORMATION.



1 M-103B MECHANICAL ROOF PLAN - MODULE B

1/8" = 1'-0"



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DRAWN BY	BMA
REVIEWED BY	RK

MECHANICAL ROOF PLAN - MODULE B

M-103B

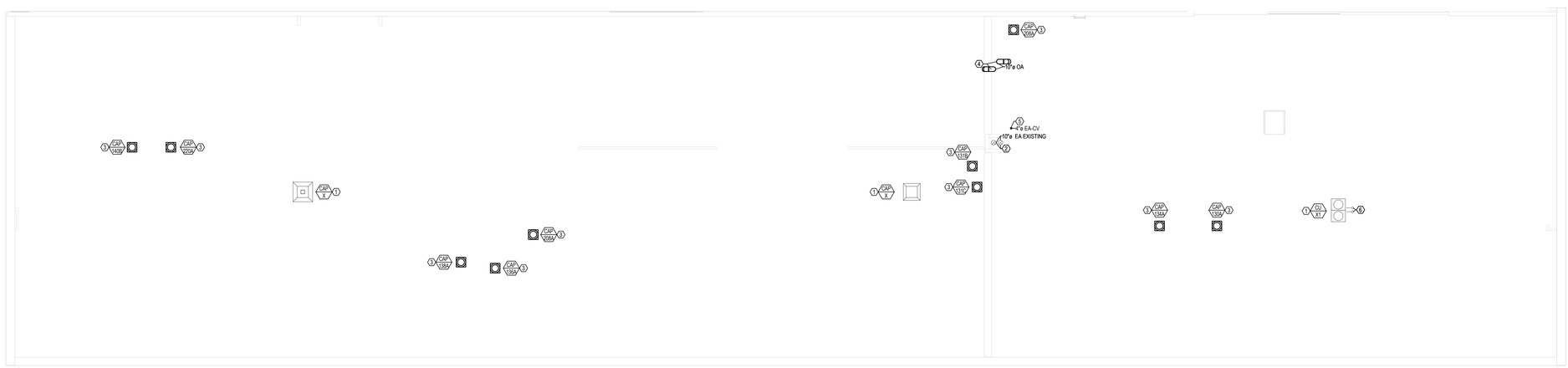
BIDDING

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

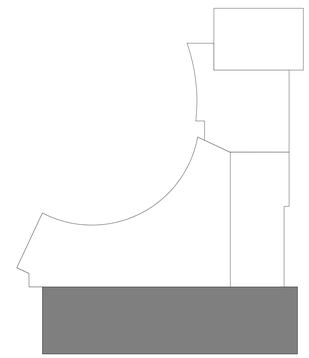
#	KEYNOTES
1	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2	NEW 6" EXHAUST DUCT TO CONTINUE UP TO WEATHER CAP ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
3	NEW EXHAUST RELIEF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE. SEE SHEET M-408 FOR MORE INFORMATION.
4	NEW 10" OUTDOOR AIR DUCT TO CONTINUE DOWN TO SECOND FLOOR. SEE SHEET M-102C FOR MORE INFORMATION.
5	NEW 4" CONCENTRIC VENT DUCTS UP FROM SECOND FLOOR. FLUES TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES. SEE SHEET M-102C FOR MORE INFORMATION.
6	EXISTING REFRIGERANT PIPING UP FROM SECOND FLOOR TO REMAIN. SEE SHEET M-202C FOR MORE INFORMATION.

MODULE B
MODULE C



MODULE B
MODULE C

1 M-103C — MECHANICAL ROOF PLAN - MODULE C
1/8" = 1'-0"



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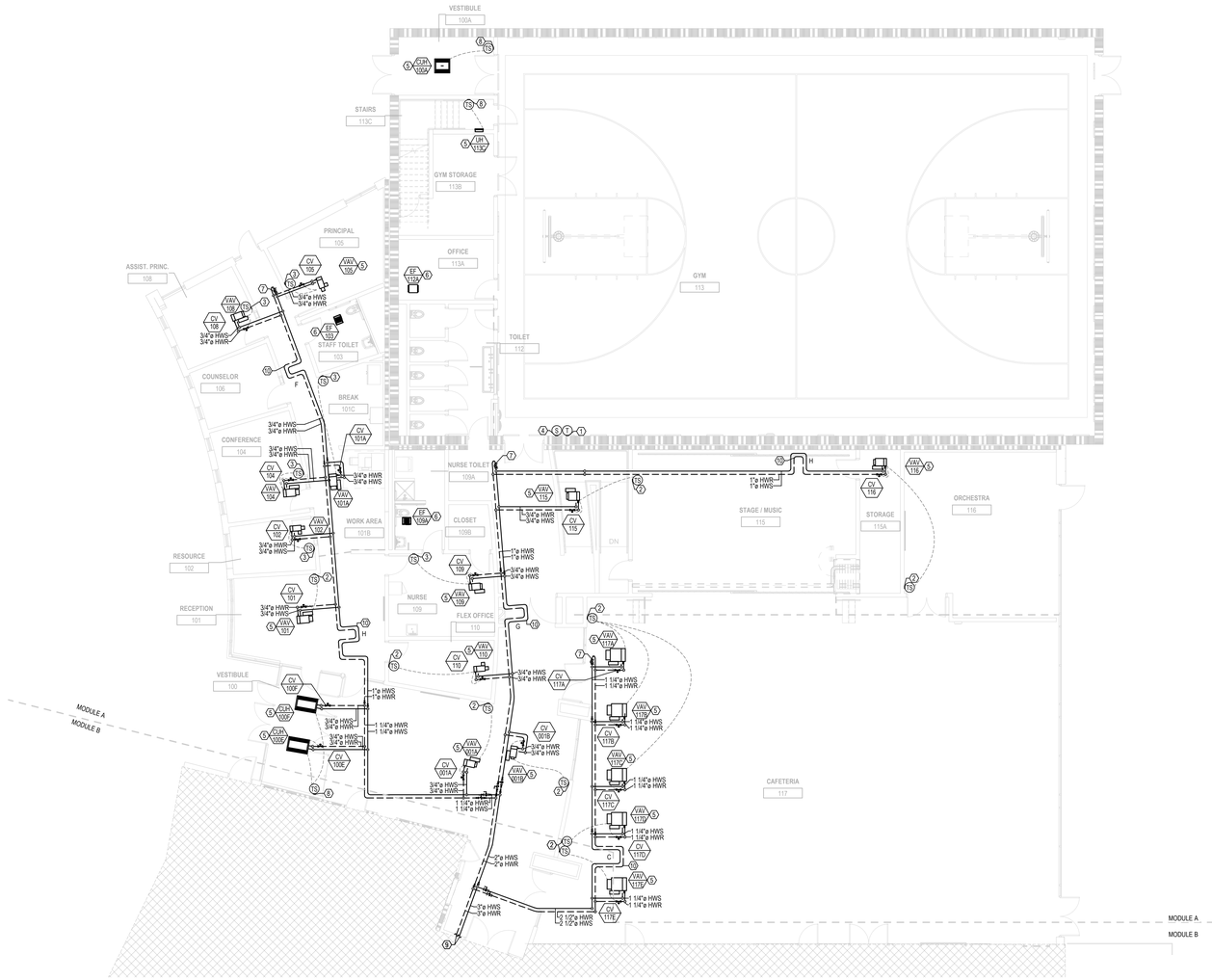
MECHANICAL ROOF PLAN - MODULE C

M-103C

BIDDING



1 M-201A MECHANICAL FIRST FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE A

1/8" = 1'-0"

N

GENERAL NOTES:

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2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

1 NEW DDC THERMOSTATIC SENSOR TO CONTROL AIR HANDLER UNIT AHU C313 ON SECOND FLOOR. THERMOSTAT TO BE PROVIDE WITH LOCKABLE COVER. SEE SHEET M-202A FOR MORE INFORMATION.
2 NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT. PROVIDE THERMOSTAT WITH LOCKABLE COVER.
3 NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT.
4 NEW WALL SWITCH TO CONTROL ALL FAN IN GYM 114.
5 SEE CONTROL SHEET M-406 FOR MORE INFORMATION.
6 SEE CONTROL SHEET M-408 FOR MORE INFORMATION.
7 NEW 3/4" BYPASS VALVE TO BE PLACED ON HOT WATER SUPPLY LINE PRIOR TO CONNECTION TO HOT WATER RETURN LINE.
8 NEW DDC TEMPERATURE SENSOR TO BE CONNECTED TO BAS SYSTEM FOR MONITORING.
9 NEW 3" HWS AND 3" HWR LINES TO CONTINUE BACK TO BUILDING MAIN. SEE SHEET M-201B FOR MORE INFORMATION.
10 SEE SCHEDULE OF EXPANSION LOOP SIZE ON SHEET M-601 FOR MORE INFORMATION.

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MECHANICAL FIRST FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE A

M-201A

BIDDING

GENERAL NOTES:

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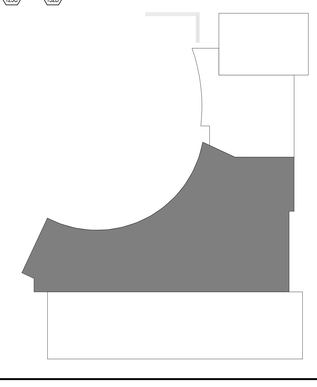
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

2 NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT. PROVIDE THERMOSTAT WITH LOCKABLE COVER.
3 NEW 3" HWS AND 3" HWR LINES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-201A FOR MORE INFORMATION.
4 SEE CONTROL SHEET M-406 FOR MORE INFORMATION.
5 SEE CONTROL SHEET M-408 FOR MORE INFORMATION.
6 REFRIGERANT PIPING TO CONTINUE UP TO SECOND FLOOR. COORDINATE REFRIGERANT PIPE SIZE WITH MANUFACTURER. SEE SHEET M-202B FOR MORE INFORMATION.
7 NEW DDC THERMOSTATIC SENSOR TO CONTROL RTU 118. THERMOSTAT TO BE PROVIDED WITH LOCKABLE COVER.
8 NEW 2" CHWS, 2" CHWR, 2" HWS, AND 2" HWR PIPES TO CONTINUE BACK TO BUILDING MAIN. SEE SHEET M-201C FOR MORE INFORMATION.
9 NEW 3/4" HWS AND 3/4" HWR PIPES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-201C FOR MORE INFORMATION.
10 NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT.
11 NEW 3/4" BYPASS VALVE TO BE PLACED ON HOT WATER SUPPLY LINE PRIOR TO CONNECTION TO HOT WATER RETURN LINE.
12 SEE CONTROL SHEET M-407 FOR MORE INFORMATION.
13 NEW DDC TEMPERATURE SENSOR TO BE CONNECTED TO BAS SYSTEM FOR MONITORING.
14 NEW 1" HWS AND 1" HWR PIPES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-201C FOR MORE INFORMATION.
15 SEE CONTROL SHEET M-402 FOR MORE INFORMATION.
16 NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TEMPERATURE SENSOR TO EXHAUST FAN E200 ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
17 SEE SCHEDULE OF EXPANSION LOOP SIZE ON SHEET M-601 FOR MORE INFORMATION.
18 NEW 4" HWS AND 4" HWR LINES TO CONTINUE TO PENTHOUSE. SEE SHEET M-301 FOR MORE INFORMATION.



1 / M-201B MECHANICAL FIRST FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE B
1/8" = 1'-0"



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MECHANICAL FIRST FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE B

M-201B

BIDDING

GENERAL NOTES:

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4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

#	KEYNOTES
1	EXISTING THERMOSTAT TO BE RELOCATED TO NEW LOCATION.
2	EXISTING THERMOSTAT TO REMAIN.
3	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
4	NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT.
5	NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT. PROVIDE THERMOSTAT WITH LOCKABLE COVER.
6	NEW 2" CHWS, 2" CHWR, 2" HWS, AND 2" HWR LINES TO CONTINUE TO FEED THE REST OF THE BUILDING.
7	NEW 4" CHWS AND 4" CHWR LINES TO CONTINUE UP TO SECOND FLOOR. SEE SHEET M-202B FOR MORE INFORMATION.
8	NEW 4" CHWS AND 4" CHWR LINES TO CONTINUE TO BOILER ROOM. SEE SHEET M-300 FOR MORE INFORMATION.
9	NEW 3/4" BYPASS VALVE TO BE PLACED ON HOT WATER SUPPLY LINE PRIOR TO CONNECTION TO HOT WATER RETURN LINE.
10	NEW DDC TEMPERATURE SENSOR TO BE CONNECTED TO BAS SYSTEM FOR MONITORING.
11	SEE CONTROL SHEET M-402 FOR MORE INFORMATION.
12	SEE SCHEDULE OF EXPANSION LOOP SIZE ON SHEET M-601 FOR MORE INFORMATION.
13	EXISTING 4" CHWS, 4" CHWR, 4" HWS, AND 4" HWR LINE TO CONTINUE TO BOILER ROOM TO REMAIN. SEE SHEET M-300 FOR MORE INFORMATION.
14	NEW 3" CHWS, 3" CHWR, 2" HWS, 2" HWR LINES, 1-1/2" HWS, AND 1-1/2" HWR LINES TO CONTINUE BACK T BUILDING MAIN. SEE SHEET M-201B FOR MORE INFORMATION.
15	EXISTING FAN COIL FCU-X108 TO BE RELOCATED. FAN COIL UNIT TO BE RENAMED AND RELABELED TO FCU-127. EXISTING CORRESPONDING CONTROL VALVES AND CONTROL WIRING TO BE RELOCACTED. EXISTING CORRESPONDING DUCTWORK AND PIPING TO BE DEMOLISHED BACK TO MAIN.
16	NEW 6" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-101C FOR MORE INFORMATION.
17	SEE CONTROL SHEET M-406 FOR MORE INFORMATION.
18	SEE CONTROL SHEET M-405 FOR MORE INFORMATION.
19	SEE CONTROL SHEET M-408 FOR MORE INFORMATION.
20	NEW DDC THERMOSTATIC SENSOR TO CONTROL VAV 136B IN MODULE B. THERMOSTAT TO BE PROVIDE WITH LOCKABLE COVER. SEE SHEET M-201B FOR MORE INFORMATION.
21	NEW DDC THERMOSTATIC SENSOR TO CONTROL VAV 136A IN MODULE B. THERMOSTAT TO BE PROVIDE WITH LOCKABLE COVER. SEE SHEET M-201B FOR MORE INFORMATION.

1 M-201C MECHANICAL FIRST FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE C
1/8" = 1'-0"

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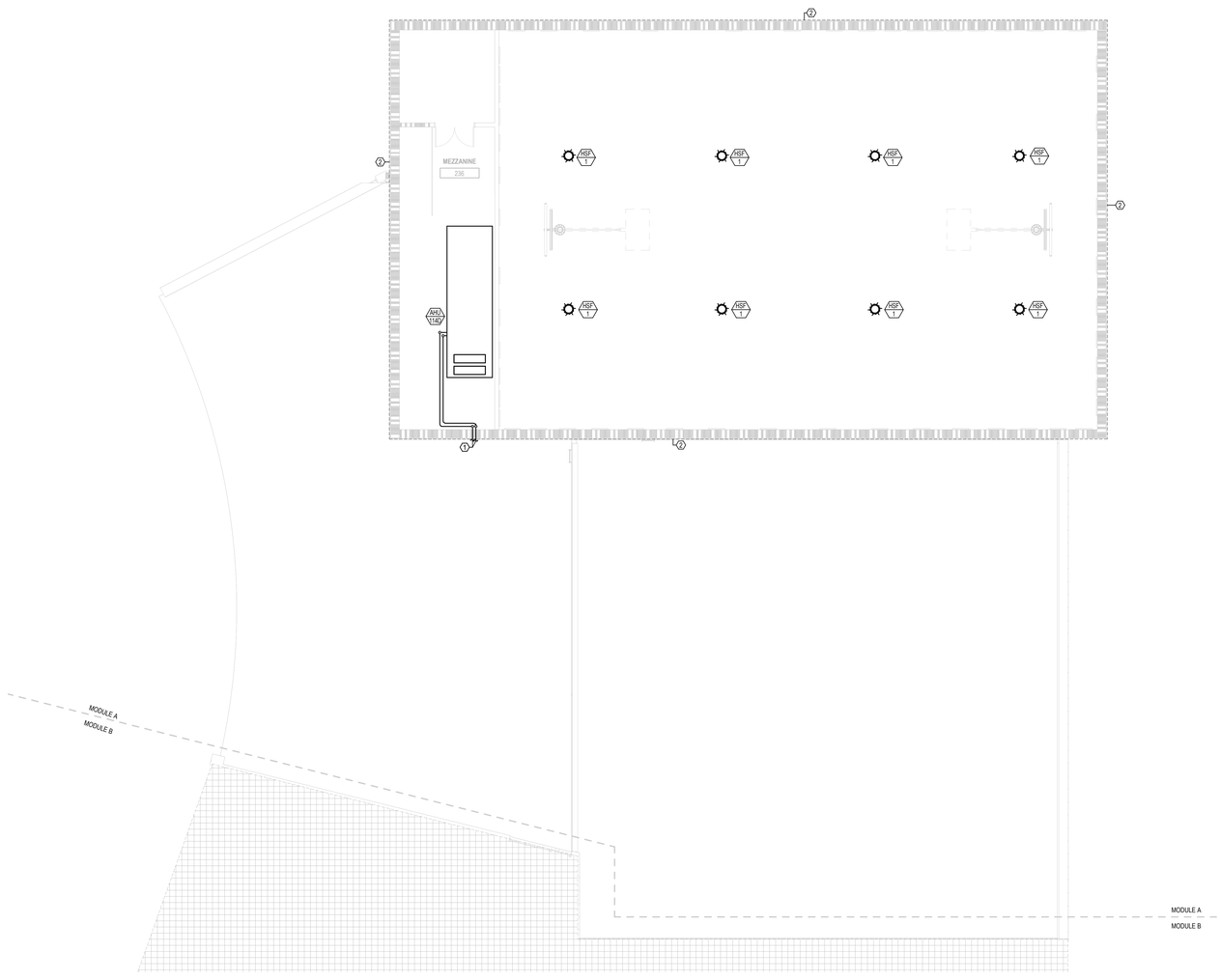
MECHANICAL FIRST FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE C

M-201C

BIDDING



1 M-202A MECHANICAL SECOND FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE A
1/8" = 1'-0"

GENERAL NOTES:

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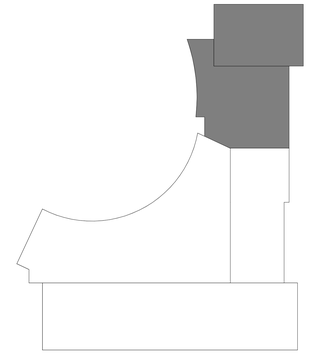
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

1 REFRIGERANT PIPING TO CONTINUE UP TO ROOF. COORDIANTE REFRIGERANT PIPE SIZE WITH MANUFACTURER. SEE SHEET M-103A FOR MORE INFORMATION.

2 DASHED LINE REPRESENTS EXTENTS OF TORNADO SHELTER, REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. WALL AND ROOF ENCLOSING THE INDICATED AREA ARE TORNADO SHELTER RATED WALL PER ICC-500,2014. PENETRATIONS EXCEEDING 3-1/2 SQUARE INCHES (RECTANGULAR) OR 2-1/2" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH ICC-500, 2014 SECTION 309.1



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MECHANICAL SECOND FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE A

M-202A

BIDDING

GENERAL NOTES:

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#	KEYNOTES
2	NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT. PROVIDE THERMOSTAT WITH LOCKABLE COVER.
3	NEW 3/4" BYPASS VALVE TO BE PLACED ON HOT WATER SUPPLY LINE PRIOR TO CONNECTION TO HOT WATER RETURN LINE.
4	NEW 4" HWS AND 4" HWR LINES TO CONTINUE TO PENTHOUSE. SEE SHEET M-301 FOR MORE INFORMATION.
5	NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT.
6	NEW 3/4" HWS AND 3/4" HWR LINES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-202C FOR MORE INFORMATION.
7	NEW 12" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-101C FOR MORE INFORMATION.
8	NEW 8" EXHAUST DUCT TO CONTINUE TO WEATHER CAP ON ROOF. SEE SHEET M-101A FOR MORE INFORMATION.
9	SEE CONTROL SHEET M-408 FOR MORE INFORMATION.
10	SEE CONTROL SHEET M-406 FOR MORE INFORMATION.
11	SEE CONTROL SHEET M-403 FOR MORE INFORMATION.
12	NEW 1" HWS AND 1" HWR LINES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-202C FOR MORE INFORMATION.
13	SEE SCHEDULE OF EXPANSION LOOP SIZE ON SHEET M-601 FOR MORE INFORMATION.



1 M-202B MECHANICAL SECOND FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE B
1/8" = 1'-0"

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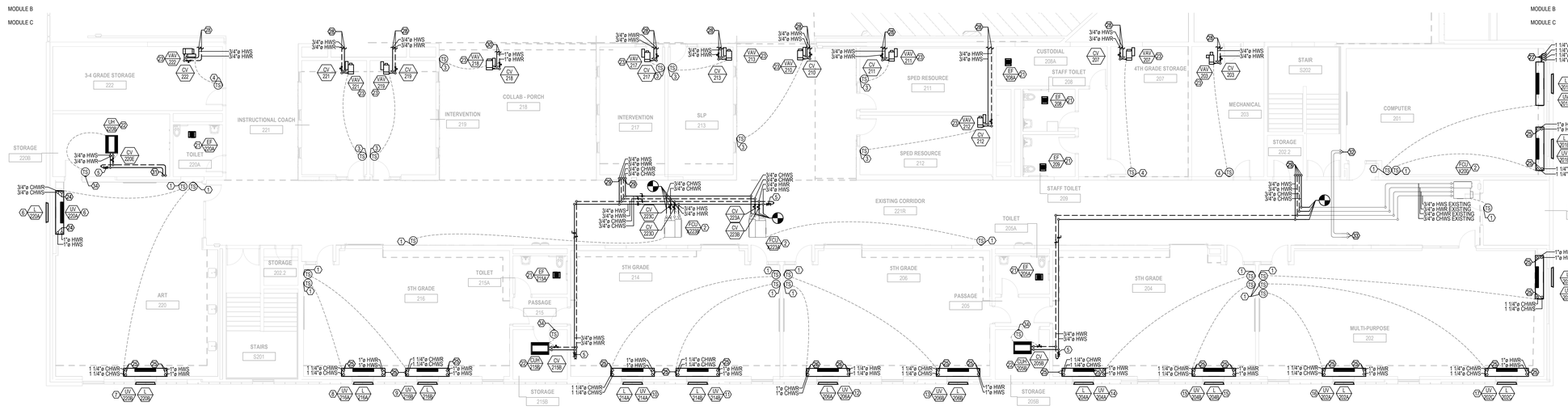
REVIEWED BY	RK

MECHANICAL SECOND FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE B

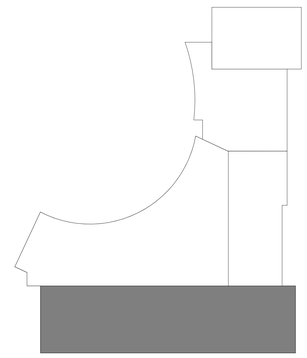
M-202B

BIDDING



1 M-202C MECHANICAL SECOND FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE C

1/8" = 1'-0"



GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

#	KEYNOTES
1	EXISTING THERMOSTAT TO BE RELOCATED TO NEW LOCATION.
2	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
3	NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT. PROVIDE THERMOSTAT WITH LOCKABLE COVER.
4	NEW DDC TEMPERATURE SENSOR AND DDC WIRING TO CONNECT TO CORRESPONDING MECHANICAL EQUIPMENT.
5	NEW 3/4" BYPASS VALVE TO BE PLACED ON HOT WATER SUPPLY LINE PRIOR TO CONNECTION TO HOT WATER RETURN LINE.
6	EXISTING UNIT VENTILATOR UV-X207 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-220A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
7	EXISTING UNIT VENTILATOR UV-X218 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-220B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
8	EXISTING UNIT VENTILATOR UV-X214 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-216A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
9	EXISTING UNIT VENTILATOR UV-X227 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-216B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
10	EXISTING UNIT VENTILATOR UV-X212 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-214A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
11	EXISTING UNIT VENTILATOR UV-X210 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-214B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
12	EXISTING UNIT VENTILATOR UV-X219 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-206A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
13	EXISTING UNIT VENTILATOR UV-X208 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-206B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
14	EXISTING UNIT VENTILATOR UV-X206 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-204A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
15	EXISTING UNIT VENTILATOR UV-X217 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-204B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
16	EXISTING UNIT VENTILATOR UV-X204 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-202A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
17	EXISTING UNIT VENTILATOR UV-X202B TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-202C. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
18	EXISTING UNIT VENTILATOR UV-X202A TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-202B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
19	EXISTING UNIT VENTILATOR UV-X118B TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-201A. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
20	EXISTING UNIT VENTILATOR UV-X201 TO BE RELOCATED. UNIT VENTILATOR TO BE RENAMED AND RELABELED TO UV-201B. PROVIDE NEW WALL SLEEVE AND EXISTING WALL GRILL TO MATCH EXISTING LOUVER SIZE.
21	SEE CONTROL SHEET M-408 FOR MORE INFORMATION.
22	SEE CONTROL SHEET M-405 FOR MORE INFORMATION.
23	SEE CONTROL SHEET M-406 FOR MORE INFORMATION.
24	NEW 3/4" CHWS, 3/4" CHWR, 1" HWS, AND 1" HWR LINES UP FROM FIRST FLOOR. SEE SHEET M-201C FOR MORE INFORMATION.
25	NEW 1-1/4" CHWS, 1-1/4" CHWR, 1" HWS, AND 1" HWR LINES UP FROM FIRST FLOOR. SEE SHEET M-201C FOR MORE INFORMATION.
26	NEW 1" CHWS, 1" CHWR, 1-1/4" HWS, AND 1-1/4" HWR LINES UP FROM FIRST FLOOR. SEE SHEET M-201C FOR MORE INFORMATION.
27	NEW 1-1/4" CHWS, 1-1/2" CHWR, 1-1/4" HWS, AND 1-1/4" HWR LINES UP FROM FIRST FLOOR. SEE SHEET M-201C FOR MORE INFORMATION.
28	NEW 3/4" HWS AND 3/4" HWR LINES TO CONTINUE BACK TO BUILDING MAIN. SEE SHEET M-202B FOR MORE INFORMATION.
29	NEW 3/4" CHWS, 3/4" CHWR, 3/4" HWS, AND 3/4" HWR LINES UP FROM FIRST FLOOR. SEE SHEET M-201C FOR MORE INFORMATION.
30	NEW 1" HWS AND 1" HWR LINES TO CONTINUE BACK TO BUILDING MAIN. SEE SHEET M-202B FOR MORE INFORMATION.
31	NEW 3/4" HWS AND 3/4" HWR LINES UP FROM FIRST FLOOR. SEE SHEET M-201C FOR MORE INFORMATION.
32	EXISTING REFRIGERANT PIPING TO CONTINUE DOWN TO FIRST FLOOR TO REMAIN. SEE SHEET M-201C FOR MORE INFORMATION.
33	EXISTING REFRIGERANT PIPING TO CONTINUE UP TO ROOF TO REMAIN. SEE SHEET M-103C FOR MORE INFORMATION.
34	NEW DDC TEMPERATURE SENSOR TO BE CONNECTED TO BAS SYSTEM FOR MONITORING.

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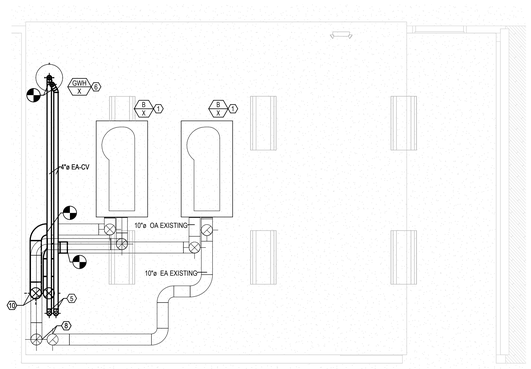
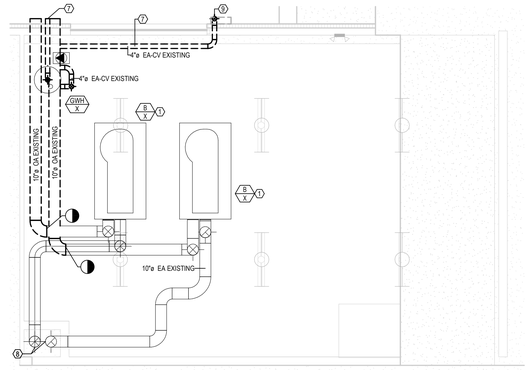
MECHANICAL SECOND FLOOR HYDRONIC PIPING AND CONTROL PLAN - MODULE C

M-202C

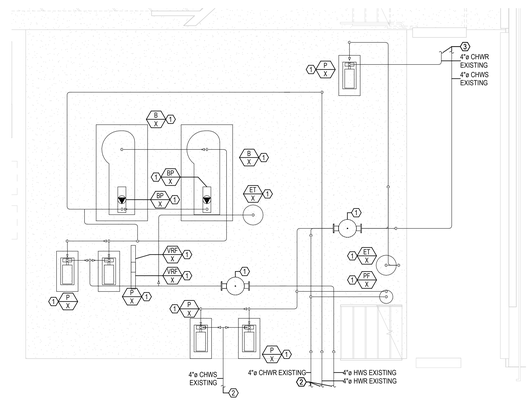
BIDDING



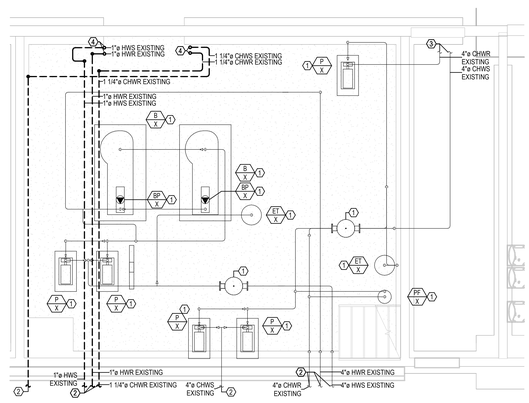
2 M-300 MECHANICAL BOILER ROOM HVAC PLAN
1/4" = 1'-0"



4 M-300 MECHANICAL BOILER ROOM HVAC DEMOLITION PLAN
1/4" = 1'-0"



1 M-300 BOILER ROOM HYDRONIC AND CONTROL PLAN
1/4" = 1'-0"



3 M-300 BOILER ROOM HYDRONIC AND CONTROLS DEMOLITION PLAN
1/4" = 1'-0"

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2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

#	KEYNOTES
1	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2	SEE SHEET M-201C FOR FIRST FLOOR MECHANICAL HYDRONIC AND CONTROLS LAYOUT.
3	SEE SHEET M-101B FOR FIRST FLOOR MECHANICAL HVAC LAYOUT.
4	EXISTING HYDRONIC LINES TO BE DEMOLISHED BACK TO MAIN.
5	NEW 4" INTAKE AND EXHAUST FLUES TO CONTINUE UP TO SECOND FLOOR. SEE SHEET M-102B FOR MORE INFORMATION.
6	PLUMBING EQUIPMENT TO BE SHOWN AS REFERENCE ONLY. SEE PLUMBING SHEETS FOR MORE INFORMATION.
7	EXISTING DUCTWORK TO BE DEMOLISHED. DUCTWORK TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL. WALLS TO BE PATCHED TO MATCH EXISTING CONDITIONS.
8	EXISTING 10" EXHAUST FLUE TO CONTINUE UP TO SECOND FLOOR TO REMAIN. SEE SHEET M-102C FOR MORE INFORMATION.
9	EXISTING 4" EXHAUST DUCT TO CONTINUE UP TO SECOND FLOOR TO BE DEMOLISHED. DEMOLISH DUCTOWORK BACK TO DEMOLITION SYMBOL. SEE SHEET MD-102 FOR MORE INFORMATION.
10	NEW 10" OUTSIDE AIR DUCTS TO DOWN FROM SECOND FLOOR. SEE SHEET M-102C FOR MORE INFORMATION.

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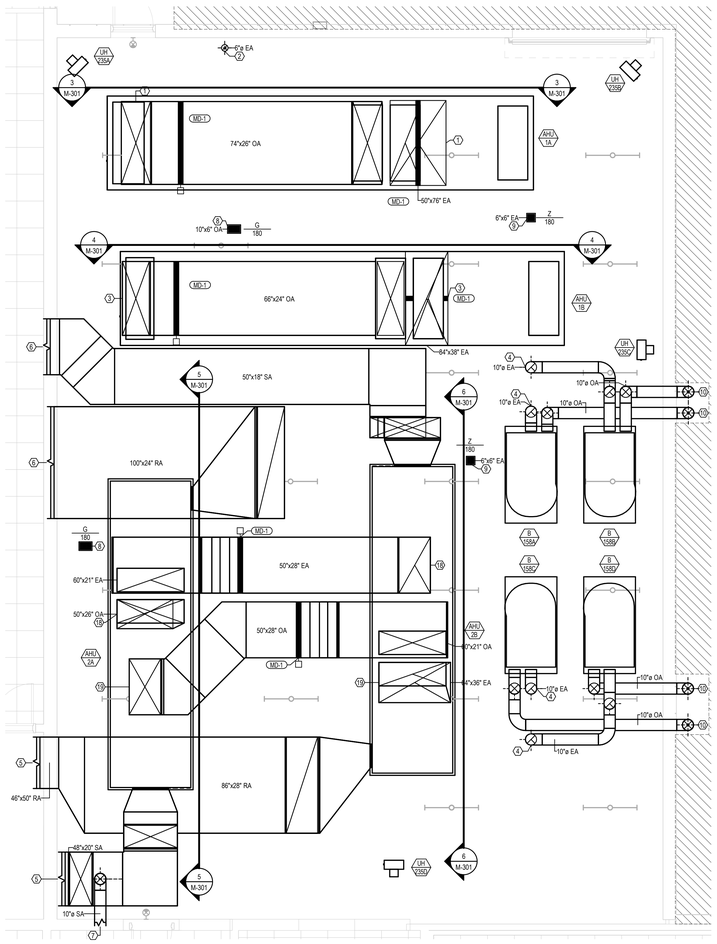
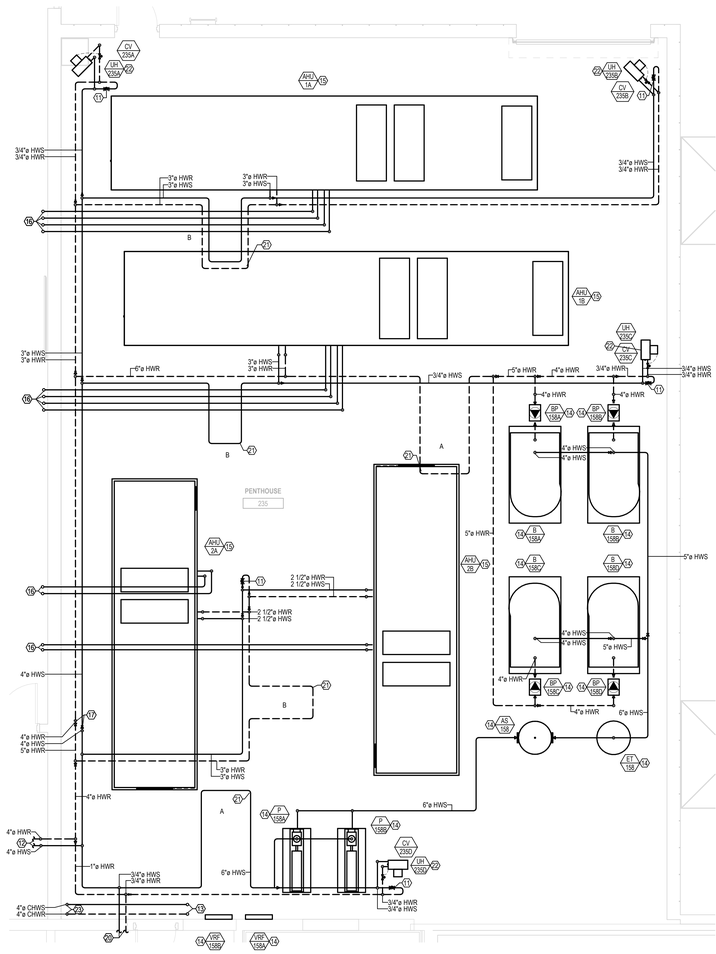
ENLARGED MECHANICAL ROOM PLAN

M-300

BIDDING



1 M-301 MECHANICAL ENLARGED PENTHOUSE HVAC PLAN
1/4" = 1'-0"



2 M-301 MECHANICAL ENLARGED PENTHOUSE HYDRONIC PIPING AND CONTROL PLAN
1/4" = 1'-0"

GENERAL NOTES:

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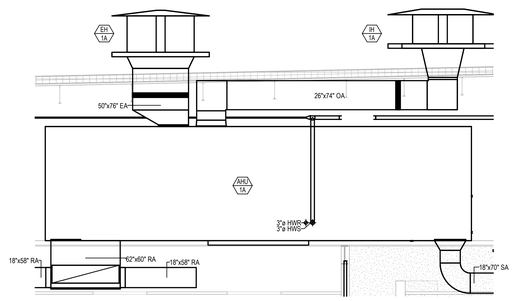
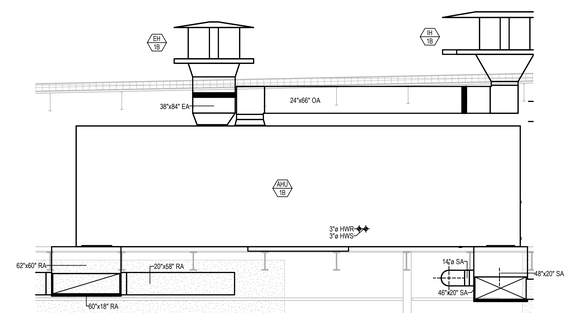
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
5. ALL DUCTWORK THROUGH STRUCTURAL SUPPORT COLUMNS AND WALLS TO HAVE HOLE CUT FOR DUCTWORK. COORDINATE EXACT SIZE AND LOCATION WITH STRUCTURAL CONTRACTOR.
6. ALL NEW DDC CONTROL CONDUCT TO BE COLOR CODE BLUE.

 # KEYNOTES

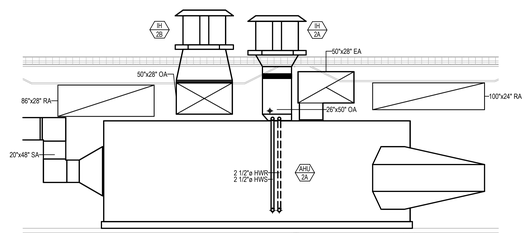
1 NEW 74"X26" OUTSIDE AIR DUCT DOWN FROM INTAKE HOOD IH-1A ON ROOF. NEW 50"X76" EXHAUST DUCT TO CONTINUE UP TO EXHAUST HOOD EH-1A ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
2 NEW 8" EXHAUST DUCT TO CONTINUE UP TO WEATHER CAP ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
3 NEW 66"X24" OUTSIDE AIR DUCT DOWN FROM INTAKE HOOD IH-1B ON ROOF. NEW 64"X38" EXHAUST DUCT TO CONTINUE UP TO EXHAUST HOOD EH-1B ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
4 NEW 10" EXHAUST FLUE TO CONTINUE UP TO ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
5 NEW 48"X20" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. NEW 46"X50" RETURN DUCT TO CONTINUE BACK TO CORRESPONDING MECHANICAL EQUIPMENT. SEE SHEET M-102B FOR MORE INFORMATION.
6 NEW 50"X20" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. NEW 100"X24" RETURN DUCT TO CONTINUE BACK TO CORRESPONDING MECHANICAL EQUIPMENT. SEE SHEET M-102B FOR MORE INFORMATION.
7 NEW 10" SUPPLY DUCT TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-102C FOR MORE INFORMATION.
8 NEW 10"X6" OUTSIDE AIR DUCT DOWN FROM WEATHER CAP ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
9 NEW 6"X6" EXHAUST DUCT TO CONTINUE UP TO EXHAUST FAN ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
10 NEW 10" OUTSIDE AIR FLUE TO BE HAVE BIRD SCREEN INSTALLED AT END OF FLUE.
11 NEW 3/4" BYPASS VALVE TO BE PLACED ON HOT WATER SUPPLY LINE PRIOR TO CONNECTION TO HOT WATER RETURN LINE.
12 NEW 4" HWS AND 4" HWR LINES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-202B FOR MORE INFORMATION.
13 NEW 4" CHWS AND 4" CHWR LINE TO CONTINUE UP TO CHILLER ON ROOF. SEE SHEET M-103C FOR MORE INFORMATION.
14 SEE CONTROL SHEET M-401 FOR MORE INFORMATION.
15 SEE CONTROL SHEET M-404 FOR MORE INFORMATION.
16 REFRIGERANT PIPING TO CONTINUE UP TO ROOF. COORDINATE EXACT REFRIGERANT PIPE SIZE WITH MANUFACTURER. SEE SHEET M-103B FOR MORE INFORMATION.
17 NEW 4" HWS AND 4" HWR LINES TO CONTINUE DOWN TO FIRST FLOOR. SEE SHEET M-201B FOR MORE INFORMATION.
18 NEW 50"X28" OUTSIDE AIR DUCT DOWN FROM INTAKE HOOD IH-2A ON ROOF. NEW 50"X28" EXHAUST DUCT TO CONTINUE UP TO EXHAUST HOOD EH-2A ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
19 NEW 50"X28" OUTSIDE AIR DUCT DOWN FROM INTAKE HOOD IH-2B ON ROOF. NEW 64"X36" EXHAUST DUCT TO CONTINUE UP TO EXHAUST HOOD EH-2B ON ROOF. SEE SHEET M-103B FOR MORE INFORMATION.
20 NEW 3/4" HWS AND 3/4" HWR LINES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-202C FOR MORE INFORMATION.
21 SEE SCHEDULE OF EXPANSION LOOP SIZE ON SHEET M-601 FOR MORE INFORMATION.
22 SEE CONTROL SHEET M-405 FOR MORE INFORMATION.
23 NEW 1" CHWS, 1" CHWR, 3/4" HWS AND 3/4" HWR LINES TO CONTINUE TO FEED THE REST OF THE BUILDING. SEE SHEET M-301 FOR MORE INFORMATION.



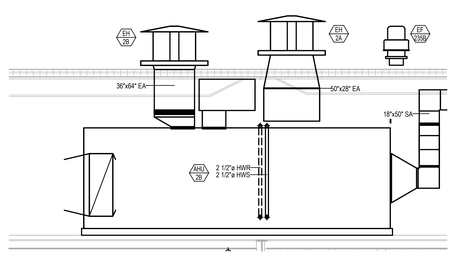
3 M-301 AHU 1A DETAIL
1/4" = 1'-0"



4 M-301 AHU 1B DETAIL
1/4" = 1'-0"



5 M-301 AHU 2A DETAIL
1/4" = 1'-0"



6 M-301 AHU 2B DETAIL
1/4" = 1'-0"

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REVIEWED BY	RK

ENLARGED PENTHOUSE PLAN

M-301

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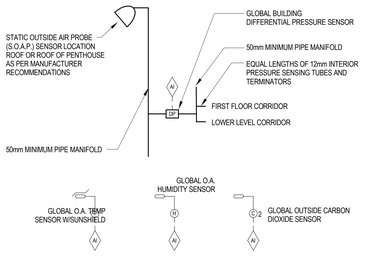


GLOBAL REFERENCE POINTS:

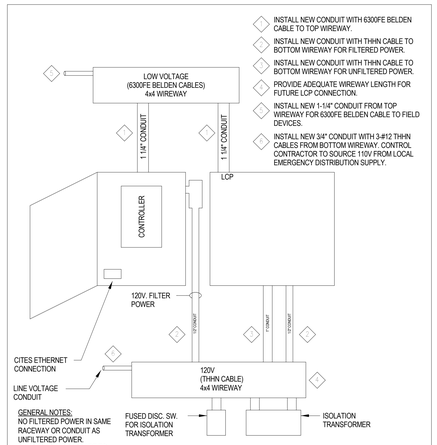
OUTSIDE AIR REFERENCE DRY BULB TEMPERATURE:
- LOCATE ON THE EXTERIOR NORTH SIDE OF THE BUILDING. LOCATION MUST BE SHADED AWAY FROM ANY HEAT SOURCE. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT/ ENGINEER.

OUTSIDE AIR REFERENCE CARBON DIOXIDE:
- LOCATE ON THE EXTERIOR OF THE BUILDING. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT.

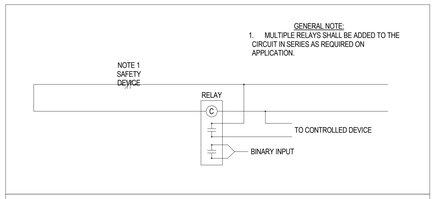
OUTSIDE AIR REFERENCE HUMIDITY:
- LOCATE ON THE EXTERIOR OF THE BUILDING. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT.

BUILDING DIFFERENTIAL PRESSURE:
- INPUTS TO THE DIFFERENTIAL PRESSURE SENSOR SHALL BE THE AVERAGE OUTSIDE AIR PRESSURE AND THE AVERAGE INTERIOR AIR PRESSURE. PIPING BY HEATING CONTRACTOR. FINAL LOCATIONS (MINIMUM 4) TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURES. COLOR SELECTION BY ARCHITECT.

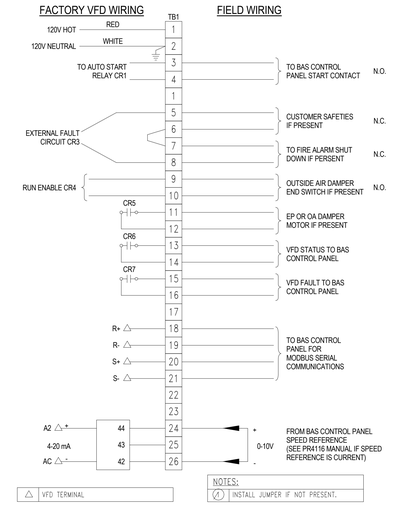
1 BUILDING PRESSURE SENSOR (S.O.A.P.)
NOT TO SCALE



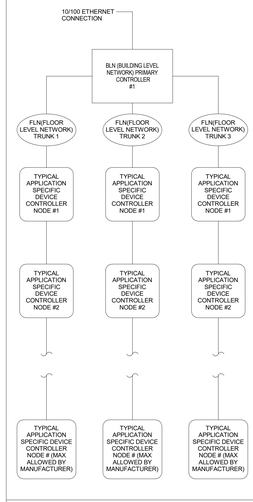
2 DDC PANEL INSTALLATION DETAIL
NOT TO SCALE



3 GENERAL SAFETY CIRCUIT
NOT TO SCALE



4 FACTORY VFD WIRING TO FIELD WIRING TERMINAL STRIP
NOT TO SCALE



NOTES

1. BUILDING LEVEL NETWORK. DEFINED AS A NETWORK OF NATIVE ETHERNET SDC CONTROLLERS IN A BUILDING CONTROLLING MAJOR HVAC EQUIPMENT SUCH AS AIR HANDLING UNITS, HEATING SYSTEMS, COOLING SYSTEMS ETC. THESE PANELS SHALL COMMUNICATE NATIVELY WITH EACH OTHER TO SHARE DATA WITHOUT THE NEED FOR INTERFACING WITH A SERVER FOR THE PURPOSES OF HANDLING LOCAL BUILDING CONTROLS.
2. TWO 10/100 ETHERNET NETWORK JACKS SHALL BE INSTALLED AT EACH LOCATION OF A PRIMARY CONTROLLER FOR THE PURPOSE OF CONNECTING THE PRIMARY CONTROLLER AND THE ADDITIONAL JACK FOR THE PURPOSE OF A LOCAL PROGRAMMER/OPERATOR LAPTOP INTERFACE TO THE SYSTEM FOR THE PURPOSE OF COMMISSIONING AND TROUBLESHOOTING.
3. FLOOR LEVEL NETWORKS SHALL BE A RS-485 TWISTED PAIR SHIELDED NETWORK USING EITHER AN APPROVED VENDOR SPECIFIC PROPRIETARY PROTOCOL OR BACNET MSTP (MASTER/SLAVE TOKEN PASSING) PROTOCOL. THE NUMBER OF FLOOR LEVEL NETWORKS AND NUMBER OF NODES SHALL NOT EXCEED VENDOR SPECIFIC REQUIREMENTS FOR THEIR SYSTEMS.
4. APPLICATION SPECIFIC DEVICES ARE TYPICALLY VARIABLE REFRIGERANT FREQUENCY UNITS (VRF), CABINET UNIT HEATERS (CUH), BASEBOARD HEATERS (BB), OR SECONDARY CONTROLLERS SUPPORTED OFF THE FLOOR LEVEL NETWORK COMMUNICATION BUS.
5. EACH SDC AND ASD CONTROLLER SHALL PROVIDE A PROGRAMMING / OPERATOR INTERFACE PORT FOR THE LOCAL CONNECTION OF A LAPTOP SERVICE TOOL TO ALLOW FIELD PROGRAMMING OR OPERATION OF THE SYSTEMS LOCALLY BY AN OPERATOR OR PROGRAMMER.

5 TYPICAL BAS (BUILDING AUTOMATION SYSTEM) NETWORK ARCHITECTURE
NOT TO SCALE

CONTROLS SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AI POINT NAME / POINT NAME AO	DDC POINT DESCRIPTOR WITH NAME: AI - ANALOG INPUT DI - DIGITAL INPUT AO - ANALOG OUTPUT DO - DIGITAL OUTPUT	AHU OR EQ. NO. 4 10 ZONE NUMBER	ZONE DESCRIPTOR		THREE WAY CONTROL VALVE
TS	TEMPERATURE SENSOR WITH AVERAGING ELEMENT	480V 120V	CONTROL TRANSFORMER	ACT	DAMPER ACTUATOR
TS1	TEMPERATURE SENSOR WITH SINGLE POINT ELEMENT	MS EP1 S	RELAY COILS	AQ1	DUCT AIR QUALITY SENSOR
TS1	TEMPERATURE SENSOR WITH PIPE WELL		FUSE	H1H	HIGH LIMIT HUMIDISTAT
HS1	HUMIDITY SENSOR	OL	THERMAL OVERLOAD	TDR	TIME DELAY RELAY DELAY ON MAKE OR BREAK
TS2	LOW TEMPERATURE SWITCH (FREEZESTAT)		NORMALLY OPEN AND NORMALLY CLOSED CONTACTS	H5T	DUCT MOUNTED HUMIDISTAT
TS1	HIGH TEMPERATURE SWITCH (FIRESTAT)	HAND AUTO OFF	HAND-OFF-AUTO SELECTOR SWITCH	FOI	FIBER OPTIC INTERFACE
SD1	SMOKE DETECTOR		WIRING DESIGNATION. (NO. OF HATCHES INDICATES NO. OF CONDUCTORS)	DCS	NEW DIGITAL CONTROL STATION
				OCC	OCCUPANCY SENSOR
DPS1	DIFFERENTIAL PRESSURE SWITCH		WIRING CONNECTION		
M	MAIN AIR SUPPLY	ON-OFF	ON-OFF SELECTOR SWITCH		
EP1 M	CURRENT TO PNEUMATIC TRANSDUCER	T	ROOM TEMPERATURE SENSOR AS SHOWN ON FLOOR PLANS		AIR FLOW MONITORING STATION
	TWO WAY CONTROL VALVE	H1	ROOM HUMIDITY SENSOR AS SHOWN ON FLOOR PLANS	FAR	FIRE ALARM RELAY
ST	STARTER	PS	PRESSURE SENSOR AS SHOWN ON FLOOR PLANS		

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CONTROLS LEGEND

M-400
BIDDING

B-158A,B,C,D

	DDC HARD WIRED POINTS				BAS APPLICATION						ALARMING SCENARIOS				ALARM PRIORITIES			
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	NOTES
HWS TEMP			X															
HWR TEMP			X															
REMOTE DP			X															
BP-1 START STOP		X			X		X	X	X									
BP-1 STATUS	X																	
BP-1 VFD ALARM	X									X					X			
BP-1 SPEED				X														
BP-2 START STOP			X		X		X	X	X									
BP-2 STATUS	X																	
BP-2 VFD ALARM	X									X					X			
BP-2 SPEED				X														
HWS SETPOINT				X														
B-1 SUPPLY TEMP			X															
B-1 ENABLE		X																
B-1 STATUS	X					X		X	X	X								2
B-1 ALARM	X										X					X		
B-1 BURNER / SPT				X														1
B-1 FIRING RATE			X															1
B-2 SUPPLY TEMP			X															
B-2 ENABLE		X																
B-2 STATUS	X					X		X	X	X								2
B-2 ALARM	X										X					X		
B-2 BURNER / SPT				X														1
B-2 FIRING RATE			X															1
CO LEVEL			X														X	
EMERGENCY FUEL SWITCH	X																X	

NOTES:

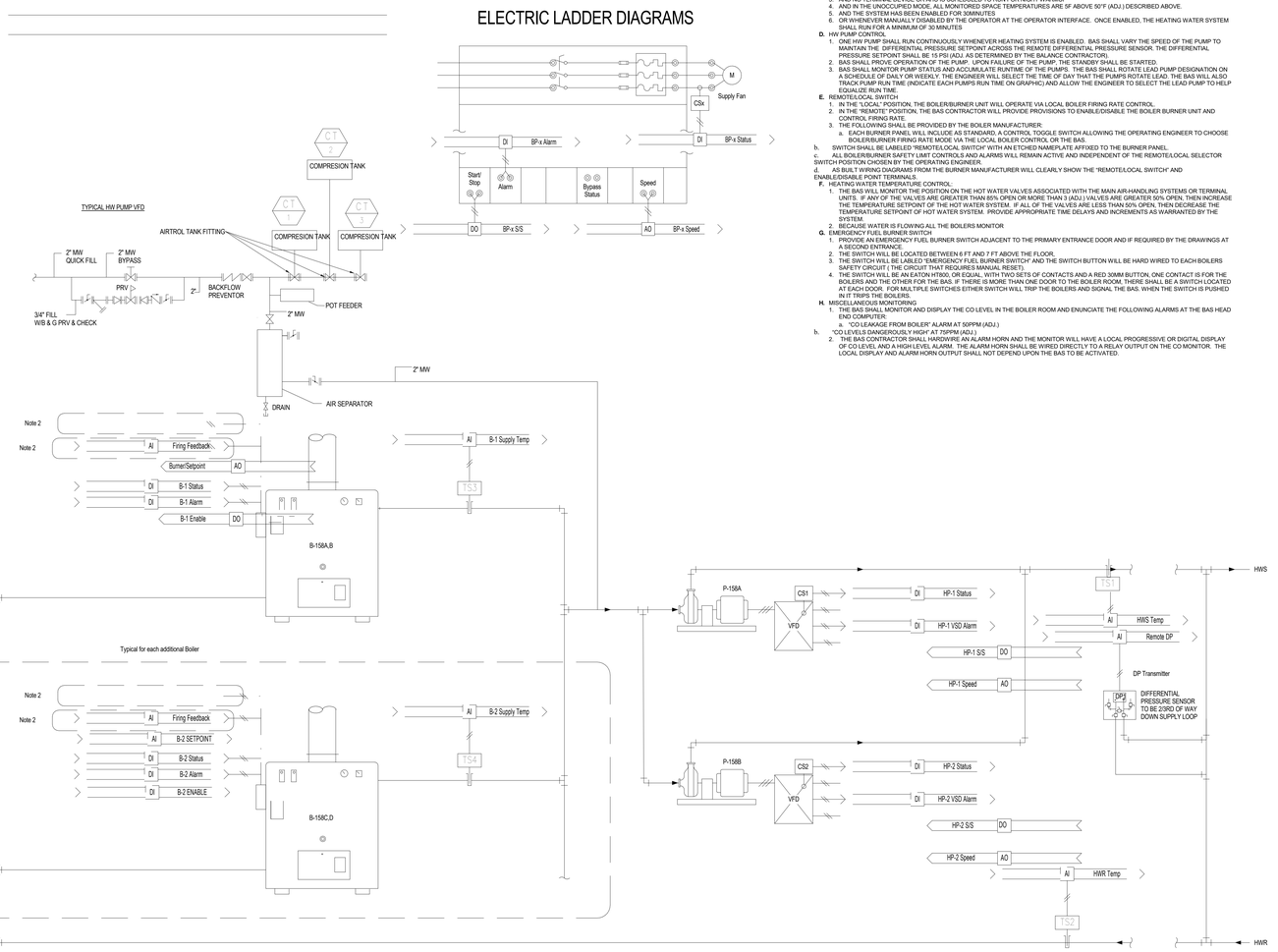
1. BOILER CONTROL WILL EITHER BE BY DIRECT CONTROL OF FIRING RATE OR BY SETPOINT ADJUSTMENT IF THE BOILER HAS INERNAL PID CONTROLLER. IF THE FIRING RATE IS CONTROLLED BY THE BAS THE FIRING RATE FEEDBACK SIGNAL IS NOT REQUIRED

2. BOILER STATUS WILL BE PROVEN BY STATUS OF THE MAIN GAS VALVES OR EQUIVALENT.

GENERAL NOTES:

1. GOLD CONTACT RELAYS SHALL BE USED FOR ALL DIGITAL INPUT POINTS.
2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.
3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
4. GOLD CONTACT RELAYS FOR DI POINTS, PILOT RELAYS FOR DO POINTS AND ISOVERTERS FOR AI & AO POINTS SHALL BE LOCATED WITHIN THE LCP ENCLOSURE AND POWERED FROM THE LCP'S CONTROL TRANSFORMERS.
5. TIE INTO EXISTING BUILDING MANAGEMENT SYSTEM

ELECTRIC LADDER DIAGRAMS



Condensing Primary HW System

CONDENSING VARIABLE PRIMARY HW HEATING SYSTEMS CONTROL

A. GENERAL: BAS SHALL CONTROL THE HOT WATER SYSTEMS AND EQUIPMENT AND PROVIDE MONITORING AND DIAGNOSTIC INFORMATION FOR MANAGEMENT PURPOSES.

B. HEATING ENABLE: HEATING SHALL BE ENABLED WHEN:
1. A "NEED FOR HEAT" EXISTS FROM 2 (ADJ.) AHU'S FOR 15 MINUTES. OR ANY 3 ZONES (ADJ.) CONTINUOUSLY FOR 15 MINUTES (ADJ.).
2. OR OUTSIDE AIR TEMPERATURE IS BELOW 40F
3. OR ANY TERMINAL DEVICE OR AHU IS SCHEDULED TO RUN FOR NIGHT WARMUP
4. OR IN THE UNOCCUPIED MODE WHEN THE TEMPERATURE OF ANY MONITORED SPACE IS BELOW 50°F (ADJ.)
5. OR WHENEVER MANUALLY ENABLED BY THE OPERATOR AT THE OPERATOR INTERFACE. ONCE ENABLED, THE BOILER SHALL RUN FOR A MINIMUM OF 30 MINUTES.

C. HEATING DISABLE: HEATING SHALL BE DISABLED WHEN:
1. A "NEED FOR HEAT" NO LONGER EXISTS AT ANY AHU OR ZONE. PROVIDE ABILITY TO OVERRIDE CALL FOR HEAT FROM SPACES WITH FAILED TEMPERATURE SENSORS.
2. AND OUTSIDE AIR TEMPERATURE IS 5F ABOVE THE ENABLE SETPOINT ABOVE
3. AND NO TERMINAL DEVICE OR AHU IS SCHEDULED TO RUN FOR NIGHT WARMUP
4. AND IN THE UNOCCUPIED MODE, ALL MONITORED SPACE TEMPERATURES ARE 5F ABOVE 50°F (ADJ.) DESCRIBED ABOVE.
5. AND THE SYSTEM HAS BEEN ENABLED FOR 30MINUTES
6. OR WHENEVER MANUALLY DISABLED BY THE OPERATOR AT THE OPERATOR INTERFACE. ONCE ENABLED, THE HEATING WATER SYSTEM SHALL RUN FOR A MINIMUM OF 30 MINUTES

D. HW PUMP CONTROL
1. ONE HW PUMP SHALL RUN CONTINUOUSLY WHENEVER HEATING SYSTEM IS ENABLED. BAS SHALL VARY THE SPEED OF THE PUMP TO MAINTAIN THE DIFFERENTIAL PRESSURE SETPOINT ACROSS THE REMOTE DIFFERENTIAL PRESSURE SENSOR. THE DIFFERENTIAL PRESSURE SETPOINT SHALL BE 15 PSI (ADJ. AS DETERMINED BY THE BALANCE CONTRACTOR)
2. BAS SHALL PROVE OPERATION OF THE PUMP , UPON FAILURE OF THE PUMP, THE STANDBY SHALL BE STARTED.
3. BAS SHALL MONITOR PUMP STATUS AND ACCUMULATE RUNTIME OF THE PUMPS. THE BAS SHALL ROTATE LEAD PUMP DESIGNATION ON A SCHEDULE OF DAILY OR WEEKLY. THE ENGINEER WILL SELECT THE TIME OF DAY THAT THE PUMPS ROTATE LEAD. THE BAS WILL ALSO TRACK PUMP RUN TIME (INDICATE EACH PUMPS RUN TIME ON GRAPHIC) AND ALLOW THE ENGINEER TO SELECT THE LEAD PUMP TO HELP EQUALIZE RUN TIME.

E. REMOTE/LOCAL SWITCH
1. IN THE "LOCAL" POSITION, THE BOILER/BURNER UNIT WILL OPERATE VIA LOCAL BOILER FIRING RATE CONTROL.
2. IN THE "REMOTE" POSITION, THE BAS CONTRACTOR WILL PROVIDE PROVISIONS TO ENABLE/DISABLE THE BOILER BURNER UNIT AND CONTROL FIRING RATE.
3. THE FOLLOWING SHALL BE PROVIDED BY THE BOILER MANUFACTURER:
   a. EACH BURNER PANEL WILL INCLUDE AS STANDARD, A CONTROL TOGGLE SWITCH ALLOWING THE OPERATING ENGINEER TO CHOOSE BOILER/BURNER FIRING RATE MODE VIA THE LOCAL BOILER CONTROL OR THE BAS.

b. SWITCH SHALL BE LABELED "REMOTE/LOCAL SWITCH" WITH AN ETCHED NAMEPLATE AFFIXED TO THE BURNER PANEL.

c. ALL BOILER/BURNER SAFETY LIMIT CONTROLS AND ALARMS WILL REMAIN ACTIVE AND INDEPENDENT OF THE REMOTE/LOCAL SELECTOR SWITCH POSITION CHOSEN BY THE OPERATING ENGINEER.

d. AS BUILT WIRING DIAGRAMS FROM THE BURNER MANUFACTURER WILL CLEARLY SHOW THE "REMOTE/LOCAL SWITCH" AND ENABLE/DISABLE POINT TERMINALS.

F. HEATING WATER TEMPERATURE CONTROL:
1. THE BAS WILL MONITOR THE POSITION ON THE HOT WATER VALVES ASSOCIATED WITH THE MAIN AIR-HANDLING SYSTEMS OR TERMINAL UNITS. IF ANY OF THE VALVES ARE GREATER THAN 85% OPEN OR MORE THAN 3 (ADJ.) VALVES ARE GREATER 50% OPEN, THEN INCREASE THE TEMPERATURE SETPOINT OF THE HOT WATER SYSTEM. IF ALL OF THE VALVES ARE LESS THAN 50% OPEN, THEN DECREASE THE TEMPERATURE SETPOINT OF HOT WATER SYSTEM. PROVIDE APPROPRIATE TIME DELAYS AND INCREMENTS AS WARRANTED BY THE SYSTEM.
2. BECAUSE WATER IS FLOWING ALL THE BOILERS MONITOR

G. EMERGENCY FUEL BURNER SWITCH
1. PROVIDE AN EMERGENCY FUEL BURNER SWITCH ADJACENT TO THE PRIMARY ENTRANCE DOOR AND IF REQUIRED BY THE DRAWINGS AT A SECOND ENTRANCE.
2. THE SWITCH WILL BE LOCATED BETWEEN 6 FT AND 7 FT ABOVE THE FLOOR.
3. THE SWITCH WILL BE LABLED "EMERGENCY FUEL BURNER SWITCH" AND THE SWITCH BUTTON WILL BE HARD WIRED TO EACH BOILERS SAFETY CIRCUIT (THE CIRCUIT THAT REQUIRES MANUAL RESET).
4. THE SWITCH WILL BE AN EATON HT800, OR EQUAL, WITH TWO SETS OF CONTACTS AND A RED 30MM BUTTON, ONE CONTACT IS FOR THE BOILERS AND THE OTHER FOR THE BAS. IF THERE IS MORE THAN ONE DOOR TO THE BOILER ROOM, THERE SHALL BE A SWITCH LOCATED AT EACH DOOR. FOR MULTIPLE SWITCHES EITHER SWITCH WILL TRIP THE BOILERS AND SIGNAL THE BAS. WHEN THE SWITCH IS PUSHED IN IT TRIPS THE BOILERS.

H. MISCELLANEOUS MONITORING
1. THE BAS SHALL MONITOR AND DISPLAY THE CO LEVEL IN THE BOILER ROOM AND ENUNCIATE THE FOLLOWING ALARMS AT THE BAS HEAD END COMPUTER:
   a. "CO LEAKAGE FROM BOILER" ALARM AT 50PPM (ADJ.)
b. "CO LEVELS DANGEROUSLY HIGH" AT 75PPM (ADJ.)
2. THE BAS CONTRACTOR SHALL HARDWIRE AN ALARM HORN AND THE MONITOR WILL HAVE A LOCAL PROGRESSIVE OR DIGITAL DISPLAY OF CO LEVEL AND A HIGH LEVEL ALARM. THE ALARM HORN SHALL BE WIRED DIRECTLY TO A RELAY OUTPUT ON THE CO MONITOR. THE LOCAL DISPLAY AND ALARM HORN OUTPUT SHALL NOT DEPEND UPON THE BAS TO BE ACTIVATED.

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CONDENSING HW PRIMARY SYSTEM CONTROL DIAGRAM

M-401

BIDDING

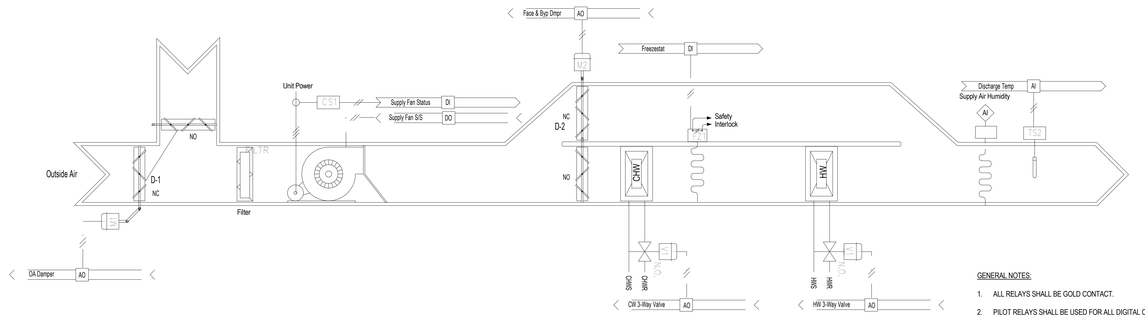
CONTROL POINT SUMMARY FOR UNIT VENTILATOR (TYPICAL)

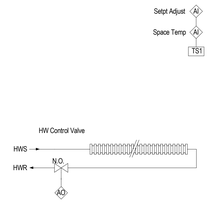
CONTROL POINTS	DDC HARD WIRED POINTS				BAS APPLICATION					ALARMING SCENARIOS				ALARM PRIORITIES				
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCHEDULED OVERRIDE	SCHEDULED	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	NOTES
SUPPLY FAN START/STOP		x																
SUPPLY FAN STATUS	x																	
FREEZE STAT	x																	
HOT WATER 3-WAY VALVE STATUS				x														
CHILLED WATER 3-WAY VALVE STATUS				x														
FACE AND BYPASS DAMPER POSITION				x														
OUTSIDE AIR DAMPER POSITION			x															
ZONE SPACE TEMPERATURE			x		x					x					x			
ZONE SPACE TEMPERATURE SET POINT			x		x					x					x			
SUPPLY AIR DISCHARGE TEMPERATURE			x		x					x					x			

UNIT VENTILATOR - SEQUENCE OF OPERATION
RUN CONDITIONS - SCHEDULED:
THE UNIT WILL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
OCCUPIED MODE: THE UNIT WILL MAINTAIN
A 75 °F (ADJ.) COOLING SETPOINT.
A 70 °F (ADJ.) HEATING SETPOINT.
UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT WILL MAINTAIN
A 85 °F (ADJ.) COOLING SETPOINT.
A 65 °F (ADJ.) HEATING SETPOINT.
ALARMS WILL BE PROVIDED AS FOLLOWS:
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
ZONE SETPOINT ADJUST:
THE OCCUPANT WILL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR (UNLESS DISABLED BY THE OWNER).
ZONE OPTIMAL START:
THE UNIT WILL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM WILL MINIMIZE THE UNOCCUPIED WARM- UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.
ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL WILL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT WILL AUTOMATICALLY RETURN TO THE SCHEDULE.
FREEZE PROTECTION:
THE UNIT WILL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.
FAN:
THE FAN WILL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. THE FAN SPEEDS WILL BE INDEXED AS FOLLOWS:
LOW SPEED WILL RUN ANYTIME THE ZONE TEMPERATURE IS WITHIN SETPOINTS.
MEDIUM SPEED WILL RUN ANYTIME THE ZONE TEMPERATURE IS OUTSIDE OF SETPOINTS.
HIGH SPEED WILL RUN ANYTIME THE ZONE TEMPERATURE IS OUTSIDE OF SETPOINTS BY A DEFINABLE AMOUNT (ADJ.). (UNLESS DISABLED BY THE OWNER)
FACE AND BYPASS DAMPERS CONTROL:
THE UNIT WILL MAINTAIN ZONE HEATING AND COOLING SETPOINTS BY MODULATING THE FACE AND BYPASS DAMPERS THROUGH ONE OF THE FOLLOWING:
COOLING: WHEN THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT, THE FACE AND BYPASS DAMPERS WILL MODULATE OPEN TO FACE POSITION (CLOSED TO BYPASS POSITION) TO MAINTAIN SETPOINT BY MODULATING THE AIR PASSING OVER THE COOLING COIL. WHEN THE ZONE TEMPERATURE IS LESS THAN THE COOLING SETPOINT, THE FACE AND BYPASS DAMPERS WILL CLOSE TO FACE POSITION (OPEN TO BYPASS POSITION).
HEATING: WHEN THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT, THE FACE AND BYPASS DAMPERS WILL MODULATE OPEN TO FACE POSITION (CLOSED TO BYPASS POSITION) TO MAINTAIN SETPOINT BY MODULATING THE AIR PASSING OVER THE HEATING COIL. WHEN THE ZONE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT, THE FACE AND BYPASS DAMPERS WILL CLOSE TO FACE POSITION (OPEN TO BYPASS POSITION).
COOLING MODE CHILLED WATER CONTROL VALVE:
THE CONTROLLER WILL MEASURE THE ZONE TEMPERATURE AND OPEN THE CHILLED WATER CONTROL VALVE TO MAINTAIN ITS COOLING SETPOINT.
THE COOLING WILL BE ENABLED WHENEVER:
OUTSIDE AIR TEMPERATURE IS GREATER THAN 60 °F (ADJ.).
AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
AND THE FAN IS ON.
THE HOT WATER CONTROL VALVE WILL OPEN WHENEVER THE FREEZESTAT (IF PRESENT) IS ON.
HEATING MODE COIL VALVE:
THE CONTROLLER WILL MEASURE THE ZONE TEMPERATURE AND OPEN THE HOT WATER CONTROL VALVE TO MAINTAIN ITS HEATING SETPOINT.
THE HEATING WILL BE ENABLED WHENEVER:
OUTSIDE AIR TEMPERATURE IS LESS THAN 65 °F (ADJ.).
AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
AND THE FAN IS ON.

THE HOT WATER CONTROL VALVE WILL OPEN WHENEVER THE FREEZESTAT (IF PRESENT) IS ON.
HEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER WILL MEASURE THE DISCHARGE AIR TEMPERATURE AND, ON RISING TEMPERATURE, LIMIT THE HEATING AS FOLLOWS:
AS THE DISCHARGE AIR TEMPERATURE RISES FROM 95 °F TO 113 °F (ADJ.),
THE CONTROLLER WILL LIMIT THE HEATING OUTPUT FROM 100% TO 50% (ADJ.).
ECONOMIZER (ASHRAE CYCLE II):
THE CONTROLLER WILL MEASURE THE ZONE TEMPERATURE AND MODULATE THE MIXED AIR DAMPERS IN SEQUENCE TO MAINTAIN THE ZONE COOLING SETPOINT. THE OUTSIDE AIR DAMPERS WILL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 5% (ADJ.) OPEN DURING HEATING AND VENTILATION WHENEVER OCCUPIED. THE ECONOMIZER WILL BE ENABLED WHENEVER:
OUTSIDE AIR TEMPERATURE IS AT LEAST 3 °F (ADJ.) LESS THAN THE ZONE TEMPERATURE.
AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN 65 °F (ADJ.)
THE ECONOMIZER WILL CLOSE WHENEVER THE FREEZESTAT (IF PRESENT) IS ON.
THE OUTSIDE AIR DAMPERS WILL CLOSE AND THE RETURN AIR DAMPER WILL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER WILL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER WILL MODULATE TO FULLY CLOSED.
THE CONTROLLER WILL MONITOR THE DISCHARGE AIR TEMPERATURE. SHOULD DISCHARGE TEMPERATURE DROP BELOW A USER DEFINABLE TEMPERATURE (ADJ.), THE CONTROLLER WILL ENABLE THE HEATING, CLOSE THE OUTSIDE DAMPER AND OPEN THE RETURN DAMPER.
MINIMUM OUTSIDE AIR VENTILATION - CARBON DIOXIDE (CO2) CONTROL:
WHEN IN THE OCCUPIED MODE, THE CONTROLLER WILL MEASURE THE ZONE CO2 CONCENTRATION AND OPEN THE OUTSIDE AIR DAMPERS ON RISING CO2 CONCENTRATIONS, OVERRIDING NORMAL DAMPER OPERATION AS CO2 CONCENTRATIONS RISE ABOVE 750 PPM (ADJ.).
DISCHARGE AIR TEMPERATURE:
THE CONTROLLER WILL MONITOR THE DISCHARGE AIR TEMPERATURE.
ALARMS WILL BE PROVIDED AS FOLLOWS:
HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120 °F (ADJ.).
LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40 °F (ADJ.).
FAN STATUS:
THE CONTROLLER WILL MONITOR THE FAN STATUS.
ALARMS WILL BE PROVIDED AS FOLLOWS:
FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
ZONE CARBON DIOXIDE (CO2) CONCENTRATION MONITORING:
THE CONTROLLER WILL MEASURE THE ZONE CO2 CONCENTRATION.
ALARMS WILL BE PROVIDED AS FOLLOWS:
HIGH ZONE CARBON DIOXIDE CONCENTRATION: IF THE ZONE CO2 CONCENTRATION IS GREATER THAN 1200 PPM (ADJ.) WHEN IN THE OCCUPIED MODE.
ENVIRONMENTAL INDEX:
WHEN THE ZONE IS OCCUPIED, THE CONTROLLER WILL MONITOR THE DEVIATION OF THE ZONE TEMPERATURE FROM THE HEATING OR COOLING SETPOINT. THE CONTROLLER WILL ALSO MONITOR THE CARBON DIOXIDE CONCENTRATION AND COMPARE IT TO COMFORT CONDITIONS. THIS DATA WILL BE USED TO CALCULATE A 0 - 100% ENVIRONMENTAL INDEX WHICH GIVES AN INDICATION OF HOW WELL THE ZONE IS MAINTAINING COMFORT. THE CONTROLLER WILL ALSO CALCULATE THE PERCENTAGE OF TIME SINCE OCCUPANCY BEGAN THAT THE ENVIRONMENTAL INDEX IS 70% OR HIGHER. OPTIONALLY, A WEIGHTING FACTOR CAN BE CONFIGURED TO ADJUST THE CONTRIBUTION OF THE ZONE TO THE ROLLUP AVERAGE INDEX BASED UPON THE FLOOR AREA OF THE ZONE, IMPORTANCE OF THE ZONE, OR OTHER STATIC CRITERIA.
DEHUMIDIFICATION:
DURING COOLING MODE IF HUMIDITY SENSOR DETECTS RH ABOVE 55%-60%(ADJ.). HEATING VALVE TO OPEN AND DISCHARGE AIR TEMPERATURE SET POINT TO BE ROOM TEMPERATURE AND DURING THIS TIME COOLING VALVE TO REMAIN OPEN.

ONCE SENSOR IS SATISFIED. HEATING VALVE TO CLOSE AND COOLING LEAVING AIR TEMPERATURE TO BE SET AT LEAVING AIR COOLING SET POINT ON SCHEDULE.





GENERAL NOTES:

1. ALL RELAYS SHALL BE GOLD CONTACT.
2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.
3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
4. ZONE SENSORS LOCATED IN AN OFFICE, CLASSROOM, OR OTHER NON-PUBLIC AREAS SHALL HAVE AN ACCESSIBLE SETPOINT ADJUSTMENT FEATURE. ZONE SENSORS LOCATED IN A CORRIDOR, LOBBY, LOUNGE, RESTROOM OR OTHER PUBLIC AREA SHOULD HAVE A BLANK COVER WITH NO SETPOINT ADJUSTMENT.
5. RADIATION VALVE SHALL BE PROVIDED WITH SEPARATE SIGNALS. THEY CAN NOT SHARE I/O POINT IN UNIT VENTILATOR CONTROLLER.
6. BAS SHALL BE FULLY ACCESSIBLE BY MOBILE.
7. SUPPLY FANS TO BE ECM MOTORS FOR WILLDAN REBATE PROGRAM

UNIT VENTILATOR CONTROL DIAGRAM (TYPICAL)

LEGAT ARCHITECTS
Design with a Difference

MOLINE - COAL VALLEY SCHOOL DISTRICT

LINCOLN - IRVING ADDITION AND RENOVATION

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SIGNATURE

DATE

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REVIEWED BY RK

UNIT VENTILAOR CONTROL DIAGRAM

M-402

BIDDING

CONTROL POINT SUMMARY FOR FAN COIL UNIT (TYPICAL)

CONTROL POINTS	DDC HARD WIRED POINTS				BAS APPLICATION					ALARMING SCENARIOS					ALARM PRIORITIES				
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	CONNECTION FAILURE	CALCULATED POINT	NOTIFICATION	MINOR	MAJOR	CRITICAL	NOTES
SUPPLY FAN START/STOP		x																
SUPPLY FAN STATUS	x																	
HOT WATER 3-WAY VALVE STATUS				x														
CHILLED WATER 3-WAY VALVE STATUS				x														
ZONE SPACE TEMPERATURE			x		x					x					x			
ZONE SPACE TEMPERATURE SET POINT			x		x					x					x			
SUPPLY AIR DISCHARGE TEMPERATURE			x		x					x					x			
SUPPLY AIR DISCHARGE HUMIDITY			x		x					x					x			

NOTES:

4 PIPE FAN COIL UNIT - SEQUENCE OF OPERATIONS
RUN CONDITIONS - SCHEDULED:
THE UNIT WILL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
OCCUPIED MODE: THE UNIT WILL MAINTAIN
A 75 °F (ADJ.) COOLING SETPOINT.
A 70 °F (ADJ.) HEATING SETPOINT.
UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT WILL MAINTAIN
A 85 °F (ADJ.) COOLING SETPOINT.
A 55 °F (ADJ.) HEATING SETPOINT.
ALARMS WILL BE PROVIDED AS FOLLOWS:
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
ZONE SETPOINT ADJUST:
THE OCCUPANT WILL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR (UNLESS DISABLED BY THE OWNER).
ZONE OPTIMAL START:
THE UNIT WILL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM WILL MINIMIZE THE UNOCCUPIED WARM- UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.
ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL WILL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODEFOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT WILL AUTOMATICALLY RETURN TO THE
COOLING MODE CHILLED WATER CONTROL VALVE:
THE CONTROLLER WILL MEASURE THE ZONE TEMPERATURE AND OPEN THE COLD WATER CONTROL VALVE TO MAINTAIN ITS COOLING SETPOINT.
THE COOLING WILL BE ENABLED WHENEVER:
OUTSIDE AIR TEMPERATURE IS GREATER THAN 60 °F (ADJ.).
AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
AND THE FAN IS ON.
THE CHILLED WATER CONTROL VALVE WILL OPEN WHENEVER THE FREEZESTAT (IF PRESENT) IS ON.
HEATING MODE HOT WATER CONTROL VALVE:
THE CONTROLLER WILL MEASURE THE ZONE TEMPERATURE AND OPEN THE HOT WATER CONTROL VALVE TO MAINTAIN ITS HEATING SETPOINT.
THE HEATING WILL BE ENABLED WHENEVER:
OUTSIDE AIR TEMPERATURE IS LESS THAN 65 °F (ADJ.).
AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
AND THE FAN IS ON.
HEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER WILL MEASURE THE DISCHARGE AIR TEMPERATURE AND, ON RISING TEMPERATURE, LIMIT THE HEATING AS FOLLOWS:
AS THE DISCHARGE AIR TEMPERATURE RISES FROM 95 °F TO 113 °F (ADJ.),
THE CONTROLLER WILL LIMIT THE HEATING OUTPUT FROM 100% TO 50% (ADJ.).
MINIMUM OUTSIDE AIR VENTILATION - CARBON DIOXIDE (CO2) CONTROL:
DISCHARGE AIR TEMPERATURE:
THE CONTROLLER WILL MONITOR THE DISCHARGE AIR TEMPERATURE.
ALARMS WILL BE PROVIDED AS FOLLOWS:
HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120 °F (ADJ.).
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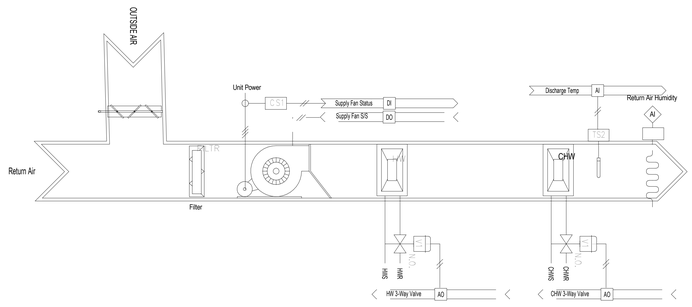
FAN STATUS:
THE CONTROLLER WILL MONITOR THE FAN STATUS.
ALARMS WILL BE PROVIDED AS FOLLOWS:
FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
ALARMS WILL BE PROVIDED AS FOLLOWS:
ENVIRONMENTAL INDEX:
WHEN THE ZONE IS OCCUPIED, THE CONTROLLER WILL MONITOR THE DEVIATION OF THE ZONE TEMPERATURE FROM THE HEATING OR COOLING SETPOINT. THIS DATA WILL BE USED TO CALCULATE A 0 - 100% ENVIRONMENTAL INDEX WHICH GIVES AN INDICATION OF HOW WELL THE ZONE IS MAINTAINING COMFORT. THE CONTROLLER WILL ALSO CALCULATE THE PERCENTAGE OF TIME SINCE OCCUPANCY BEGAN THAT THE ENVIRONMENTAL INDEX IS 70% OR HIGHER. OPTIONALLY, A WEIGHTING FACTOR CAN BE CONFIGURED TO ADJUST THE CONTRIBUTION OF THE ZONE TO THE ROLLUP AVERAGE INDEX BASED UPON THE FLOOR AREA OF THE ZONE, IMPORTANCE OF THE ZONE, OR OTHER STATIC CRITERIA.
DEHUMIDIFICATION:
IN COOLING MODE WHEN THE DISCHARGE HUMIDITY SENSOR DETECTS RH TO BE HIGHER THEN 55-60% RH(ADJ.) HOT WATER VALVE TO OPEN.
DISCHARGE AIR TEMPERATURE TO BE SET AT ROOM TEMPERATURE. COOLING AND HEATING VALVE TO REMAIN OPEN UNTIL DISCHARGE SENSOR IS SATISFIED.
WHEN RH IS BELOW RANGE HOT WATER VALVE TO CLOSE AND DISCHARGE AIR TEMPERATURE TO BE SET AT FAN COIL COOLING LEAVING AIR TEMPERATURES.





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5. RADIATION VALVE SHALL BE PROVIDED WITH SEPARATE SIGNALS. THEY CAN NOT SHARE I/O POINT IN FAN COIL BOX CONTROLLER.
6. BAS SHALL BE FULLY ACCESSIBLE BY MOBILE.

FAN COIL CONTROL DIAGRAM - TYPICAL

LEGAT ARCHITECTS
Design with a Difference

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LINCOLN - IRVING ADDITION AND RENOVATION

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FAN COIL CONTROL DIAGRAM

M-403
BIDDING

AHU - SERVING VAV BOXES

	INPUTS														OUTPUTS								SYSTEM FEATURES												
	ANALOG							DIGITAL							ANALOG			DIGITAL					ALARMS				MISCELLANEOUS								
	TEMPERATURE SENSOR	HUMIDITY SENSOR	PRESSURE	AIRFLOW MEASUREMENT	SETPOINT ADJUST	POSITION FEEDBACK	OTHER	DIFFERENTIAL PRESSURE SWITCH	FLOW SWITCH	CURRENT SWITCH	THERMOSTAT	HUMIDISTAT	STATUS	ALARM	OVERRIDE	OTHER	MODULATING	SETPOINT	VARIABLE SPEED	OTHER	ENABLE/DISABLE	START/STOP	OPEN/CLOSE	ON/OFF	OTHER	NON-ANALOG	LOW ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	RUNTIME	TREND	OPTIMAL START	SCHEDULING	PAGING	SYSTEM GRAPHIC	CUSTOM REPORT	NOTES
S.O.A.P. OUTSIDE AIR TEMPERATURE	X																												X		X		X		
S.O.A.P.OUTSIDE AIR HUMIDITY		X																											X	X			X		
S.O.A.P OUTSIDE AIR DAMPER						X																							X	X			X		
EXTERIOR OUTSIDE INCOMING AIR DAMPER													X								X						X	X			X	X		1
FILTER DIFFERENTIAL PRESSURE TRANSMITTER			X																						X				X			X		
HOT WATER 3-WAY CONTROL VALVE																	X	X																	
TEMPERED AIR TEMPERATURE	X																								X	X			X				X		
SAFETY LOW LIMIT THERMOSTAT - 40 DEGREES F												X															X	X					X		
COOLING COIL LEAVING TEMPERATURE SENSOR	X																								X	X			X				X		
SUPPLY FAN LOW-PRESSURE STATIC PRESSURE SWITCH								X																			X	X				X	X		1
SUPPLY FAN START-STOP																					X								X		X				
SUPPLY FAN VFD																																			3
SUPPLY FAN VFD STATUS													X																X		X				
SUPPLY FAN VFD FAULT														X															X						
SUPPLY FAN SPEED CONTROL																			X												X				
SUPPLY FAN HIGH-PRESSURE STATIC PRESSURE SWITCH								X																			X	X				X	X		
SAFETY LOW LIMIT THERMOSTAT - 35 DEGREES F											X																X	X				X	X		
DISCHARGE AIR TEMPERATURE	X																								X	X					X				
SPACE TEMPREATURE SENSOR										X																									
DISCHARGE AIR DUCT DETECTOR														X															X	X			X	X	2
SUPPLY DUCT STATIC PRESSURE				X																					X	X					X				
BUILDING STATIC PRESSURE SENSOR				X																															
RETURN AIR SMOKE DETECTOR														X															X	X			X	X	2
RETURN AIR TEMPERATURE	X																								X	X			X				X		
RETURN AIR HUMIDITY		X																											X	X			X		
RETURN LOW-PRESSURE SAFETY SWITCH								X																			X	X				X	X		1
RETURN FAN START-STOP																					X								X		X				
RETURN FAN VFD																																			3
RETURN FAN VFD STATUS													X																X		X				
RETURN FAN VFD FAULT														X															X						
RETURN FAN SPEED CONTROL																			X												X				
RETURN FAN HIGH-PRESSURE STATIC PRESSURE SWITCH								X																			X	X				X	X		1
EXHAUST AIR DAMPER						X																							X						
EXTERIOR EXHAUST DISCHARGE DAMPER													X								X						X	X				X	X		1

NOTES:

1. **THIS POINT SHALL BE HARDWIRED TO FAN SHUTDOWN.**
2. **SMOKE DETECTORS SHALL HAVE STAND ALONE RELAYS (HTR=1) HARD WIRED TO BUILDING SIEMENS FIRE ALARM SYSTEM BY OTHERS. WHEN SMOKE DETECTORS ARE ENGAGED, THERE SIGNALS TO INITIATE THE SHUTDOWN FUNCTION OF THE AHU**
3. **PROVIDE A FULL BACNET CONNECTION TO EACH VFD. PROVIDE ALARM STATUS, OPERATING AMPS, HP, SPEED, ETC ON THE SYSTEM GRAPIC**

Sequence of Operations
STARBUCK

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up / Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied Mode:
During occupied periods, the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The unit controller shall control the supply fan speed to maintain the current duct static pressure setpoint (adj.).The DX cooling and hot water heat shall modulate to maintain the current discharge air temperature setpoint. If economizing is enabled the outside air damper shall modulate to maintain the current discharge air temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start, the outside air damper shall remain closed and the hot water valve to open. When the space temperature rises above the unoccupied heating setpoint plus 2.0 deg. F (adj.) the hot water valve shall close. When the space temperature rises to the unoccupied heating setpoint plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the hot water valve to close.
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. The outside air damper shall remain closed. When the average space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the supply fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the average space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Occupied Bypass:
The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:
The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by modulating the economizer or staging the condensing unit as required to maintain the discharge air setpoint.

Heating Mode:
During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request will be communicated to the system VAVs prior to commencing heating operation to allow VAV units to open. The VFD shall be commanded to 100% and the heating control valve will modulate to satisfy the zone temperature setpoint.

Supply Air Temperature Reset Control:
The discharge air temperature setpoint, 55.0 deg. F - 65.0 deg. F (adj.) shall be reset based on either the outside air temperature or space average temperature (adj.). The minimum discharge air setpoint shall be set at 55.0 deg. F (adj.). The discharge temperature sensor shall prevent the discharge air temperature from falling below the discharge temperature low limit setpoint (adj.). If the discharge temperature falls below the discharge temperature sensor shall act as a low discharge temperature limit, a low temperature alarm shall be annunciated, and the unit shall shut down. If the discharge temperature rises above the high limit setpoint the sensor shall act as a high discharge temperature limit and shall keep the unit running, a high temperature alarm shall be annunciated.
Outdoor Air Temperature Reset

The discharge air temperature setpoint shall be adjusted based on the outside air temperature and the cooling and heating load of the building.
Space Temperature Reset

The discharge air temperature setpoint shall be adjusted based on the temperature of the critical space(s).

Economizer:
The supply air sensor shall measures the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in occupied mode, the economizer damper shall modulate between its minimum position and 100% to maintain the discharge air temperature setpoint. The economizer damper shall modulate toward minimum position in the event the discharge air temperature falls below the discharge low limit temperature setpoint. Compressors shall be delayed from operating until the economizer has opened to 100%.
Reference Dry Bulb:
Outside air temperature shall compared with a reference dry bulb setpoint. The economizer shall enable when the outdoor air temperature is less than or equal to reference dry bulb setpoint. The economizer shall be disabled when outdoor air temperature is greater than reference dry bulb setpoint + 5.0 deg. F.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode. A differential pressure switch shall monitor the differential pressure across the fan. If the switch is detected to be open within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall stop, requiring a manual reset.

Supply Duct Static Pressure Control:
During the occupied mode the unit controller shall modulate the output to the VFD as required to maintain the duct static pressure setpoint of 1.5 inches of W.C. (adj.). If the duct static pressure falls below 1.3 inches of W.C. (adj.) the unit controller shall increase the output to the VFD to maintain setpoint. If the duct static pressure rises above 1.7 inches of W.C. (adj.) the unit controller shall decrease the output to the VFD to maintain setpoint. Upon a call for heating or cooling in the unoccupied mode the unit controller shall modulate the speed of the VFD to 100%.
If for any reason the supply air pressure exceeds the supply air pressure high limit setpoint
supply fan shall shut down. The unit shall be allowed to restart three times after a 15 minute off period. If the overpressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

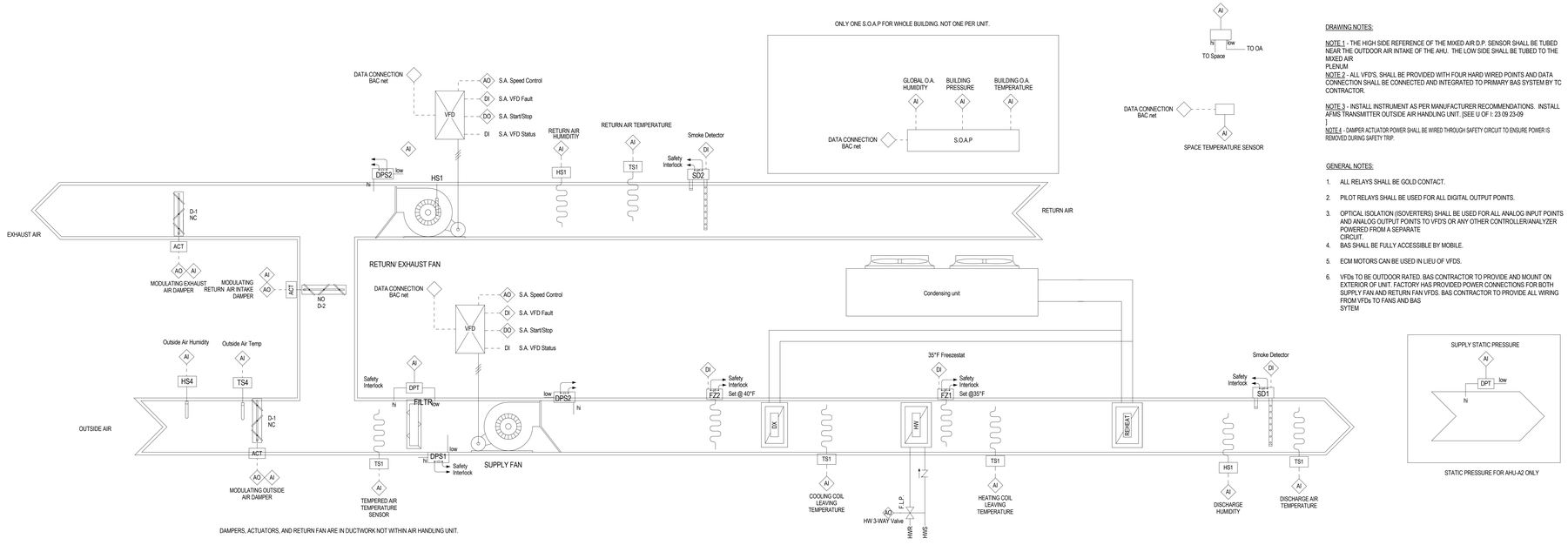
Building Pressure Control:
A differential pressure transducer shall actively monitor the difference in pressure between the building and outside ambient. If the building pressure rises above/below the differential pressure setpoint, the unit controller shall turn on the exhaust fan and modulate the exhaust fan damper to control building pressure to the differential pressure setpoint. If the building pressure decreases below the differential pressure setpoint, the controller shall deactivate the exhaust fan and close the exhaust damper.

Exhaust Fan Status:
A differential pressure switch shall monitor the differential pressure across the fan. If the switch is detected to be open for 40 consecutive seconds after a request for exhaust fan operation a fan failure alarm shall be annunciated at the BAS and the exhaust fan shall stop. A manual reset shall be required.

Smoke Detector Shutdown: The unit shall shut down in response to a signal from either smoke detector indicating the presence of smoke. The smoke detectors shall be interlocked to the unit through the dry contacts of the smoke detectors. A manual reset of the smoke detectors shall be required to restart the unit.

Filter Status:
A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be annunciated at the BAS.

Return air humidity :
In cooling mode if the return air humidity is above 60% RH (adj):
Unit to remain in cooling mode and open up inverter valve to energize hot gas reheat. Cooling coil set point to be SSP and disable temperature reset. Discharge air temperature out of the unit to be set at 75F-75F. Once the RH is reached cooling coil temperature set point to return to normal set points and resets to be enabled. Refer to air handler schedule for discharge air temperature.



DAMPERS, ACTUATORS, AND RETURN FAN ARE IN DUCTWORK NOT WITHIN AIR HANDLING UNIT.

DRAWING NOTES:

NOTE 1 - THE HIGH SIDE REFERENCE OF THE MIXED AIR D.P. SENSOR SHALL BE TUBED NEAR THE OUTDOOR AIR INTAKE OF THE AHU. THE LOW SIDE SHALL BE TUBED TO THE MIXED AIR
PLENUM
NOTE 2 - ALL VFD'S, SHALL BE PROVIDED WITH FOUR HARD WIRED POINTS AND DATA CONNECTION SHALL BE CONNECTED AND INTEGRATED TO PRIMARY BAS SYSTEM BY TC CONTRACTOR.

NOTE 3 - INSTALL INSTRUMENT AS PER MANUFACTURER RECOMMENDATIONS. INSTALL AFMS TRANSMITTER OUTSIDE AIR HANDLING UNIT. [SEE U OF I: 23 09 23-09
]
NOTE 4 - DAMPER ACTUATOR POWER SHALL BE WIRED THROUGH SAFETY CIRCUIT TO ENSURE POWER IS REMOVED DURING SAFETY TRIP.

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1. ALL RELAYS SHALL BE GOLD CONTACT.
2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.
3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
4. BAS SHALL BE FULLY ACCESSIBLE BY MOBILE.
5. ECM MOTORS CAN BE USED IN LIEU OF VFDS.
6. VFDs TO BE OUTDOOR RATED. BAS CONTRACTOR TO PROVIDE AND MOUNT ON EXTERIOR OF UNIT. FACTORY HAS PROVIDED POWER CONNECTIONS FOR BOTH SUPPLY FAN AND RETURN FAN VFDS. BAS CONTRACTOR TO PROVIDE ALL WIRING FROM VFDs TO FANS AND BAS SYTEM

HORIZONTAL AIR HANDLING (HW/DX) SERVING VAV BOXES UNIT TYPICAL

LEGAT ARCHITECTS
Design with a Difference

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LINCOLN - IRVING ADDITION AND RENOVATION

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REVIEWED BY	RK

HORIZONTAL AIR HANDLING UNIT CONTROL DIAGRAM

M-404

BIDDING

CONTROL POINT SUMMARY FOR CABINET HEATER (TYPICAL)																				
	DDC HARD WIRED POINTS			BAS APPLICATION				ALARMING SCENARIOS				ALARM PRIORITIES								
CONTROL POINTS	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	NOTES	
ZONE SPACE TEMPERATURE			x		x					x					x				
ZONE SPACE TEMPERATURE SET POINT			x		x					x					x				
NOTES:																				

Sequence of Operations
CUH Flow

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up, Occupied / Unoccupied and Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

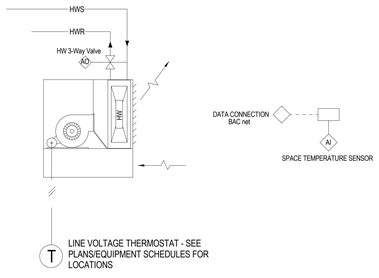
Occupied Mode:
During occupied periods the supply fan shall run continuously . The hot water valve to be open and shall stage to maintain the active space temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start and the electric heat shall energize. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 2.0 deg. F (adj.) the supply fan shall stop and the hot water valve to close.

Occupied Bypass:
The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Space Temperature Control:
Cascade zone control shall be used in the occupied, occupied bypass, and occupied standby modes. It maintains zone temperature by controlling the discharge air temperature to control the zone temperature while minimizing the fan speed. The space temperature shall be maintained at the occupied heating setpoint of 71.0 deg. F (adj.).

Supply Fan Operation:
The supply fan shall cycle on demand during the unoccupied mode. When the controller transitions to the occupied mode, the supply fan shall start at high speed before transitioning to continuous operation at the selected speed. The supply fan status shall be monitored by a differential pressure switch. If the supply fan fails the fan shall be commanded off and an alarm shall be annunciated at the BAS. A manual reset shall be required to restart the fan.



TYPICAL HW CABINET UNIT HEATER

CABINET HEATER CONTROL DIAGRAM

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CABINET HEATER CONTROL DIAGRAM

M-405

BIDDING

Building Automation System Interface:
The VAV controller shall receive BAS shall send the controller Occupied and Unoccupied commands. The BAS may also send a Heat/Cool mode, priority shutdown commands, space temperature and/or space temperature setpoint. If communication is lost with the BAS, the VAV controller shall operate using its local setpoints.

Occupancy Mode:
The occupancy mode shall be communicated or hardwired to the controller via a binary input. Valid occupancy modes for the unit shall be:

Occupied:
Normal operating mode for occupied spaces or daytime operation. When the unit is in the occupied mode the VAV shall maintain the space temperature at the active occupied heating or cooling setpoint. Applicable ventilation and airflow setpoints shall be active. The occupied mode shall be the default mode of the VAV.

Unoccupied:
Normal operating mode for unoccupied spaces or nighttime operation. When the unit is in unoccupied mode the VAV controller shall maintain the space temperature at the stored unoccupied heating or cooling setpoint regardless of the presence of a hardwired or communicated setpoint. When the space temperature exceeds the active unoccupied setpoint the VAV shall modulate fully closed.

Override Mode:
Mode used to temporarily place the unit into the occupied operation. Tenants shall be able to override the unoccupied mode from the space sensor. The override shall last for a maximum of 4 hours (adj.). The tenants shall be able to cancel the override from the space sensor at any time. During the override the unit shall operate in occupied mode.

Heat/Cool Mode:
The heat/cool mode shall be set by a communicated value or automatically by the VAV. In standalone or auto mode the VAV shall compare the primary air temperature with the configured auto changeover setpoint to determine if the air is "hot" or "cold". Heating mode it implies the primary air temperature is hot. Cooling mode it implies the primary air temperature is cold.

Heat/Cool Setpoint:
The space temperature setpoint shall be determined either by a local (e.g., hardwired) setpoint, the VAV default setpoint or a communicated value. The VAV shall use the locally stored default setpoints when neither a local setpoint nor communicated setpoint is present. If both a local setpoint and communicated setpoint exist, the VAV shall use the communicated value.

Cooling Mode:
When the unit is in cooling mode, the VAV controller shall maintain the space temperature at the active cooling setpoint by modulating the airflow between the active cooling minimum airflow setpoint to the maximum cooling airflow setpoint. Based on the VAV controller occupancy mode, the active cooling setpoint shall be one of the following:

Setpoint
Default Value
Occupied Cooling Setpoint 75.0 deg. F
Unoccupied Cooling Setpoint 80.0 deg. F
Occupied Standby Cooling Setpoint 78.0 deg. F
Occupied Min Cooling Airflow Setpoint See VAV Schedule
Occupied Max Cooling Airflow Setpoint See VAV Schedule
The VAV shall use the measured space temperature and the active cooling setpoint to determine the requested cooling capacity
. The outputs will be controlled
based on the unit configuration and the requested cooling capacity.

Heating Mode:
When the unit is in heating mode, the VAV controller shall maintain the space temperature at the active heating setpoint by modulating the airflow between the active heating minimum airflow setpoint to the maximum heating airflow setpoint. Based on the VAV controller occupancy mode, the active heating setpoint shall be one of the following:

Setpoint
Default Value
Occupied Heating Setpoint 70.0 deg. F
Unoccupied Heating Setpoint 65.0 deg. F
Occupied Standby Heating Setpoint 67.0 deg. F
Occupied Min Heating Airflow Setpoint See VAV Schedule
Occupied Max Heating Airflow Setpoint See VAV Schedule
The VAV controller shall use the measured space temperature and the active heating setpoint to determine the requested heating capacity of the unit
. The outputs will be
controlled based on the unit configuration and the requested heating capacity.

Reheat Control:
Reheat will only be allowed when the primary air temperature is 5.0 deg. F below the configured reheat enable setpoint of 90.0 deg. F (adj.). The reheat shall be enabled when the space temperature drops below the active heating setpoint and the minimum airflow requirements are met. During reheat the VAV shall operate at its minimum heating airflow setpoint and energize the heat as follows:

Proportional Hot Water Reheat:
If the space temperature is below the heating setpoint the hot water reheat valve shall modulate as required to maintain the active heating setpoint.

Ventilation Control (Fixed):
When the unit is in unoccupied mode, the ventilation airflow setpoint shall be zero. When the unit is in occupied mode, the ventilation airflow setpoint shall equal the design outdoor airflow (see VAV schedule).
The current ventilation airflow setpoint shall be communicated to the BAS for control of the system outdoor air intake.

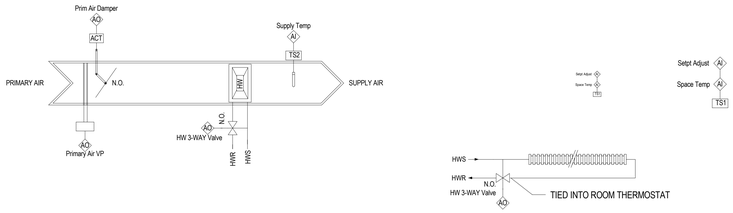
Space Sensor Failure:
If there is a fault with the operation of the zone sensor an alarm shall be annunciated at the BAS. Space sensor failure shall cause the VAV to drive the damper to minimum air flow if the VAV is in the occupied mode, or drive it closed if the VAV is in the unoccupied mode.

CONTROL POINT SUMMARY FOR VAV UNIT (TYPICAL)

CONTROL POINTS	DDC HARD WIRED POINTS: BINARY INPUTS (DI)	DDC HARD WIRED POINTS: BINARY OUTPUTS (DO)	DDC HARD WIRED POINTS: ANALOG INPUTS (AI)	DDC HARD WIRED POINTS: ANALOG OUTPUTS (AO)	BAS APPLICATION: TREND LOGGING	BAS APPLICATION: RUN TIME ACCUMULATION	BAS APPLICATION: OPERATION SCHEDULE	BAS APPLICATION: SCREEN DISPLAYED	BAS APPLICATION: USER OVERRIDE	ALARMING SCENARIOS: LOST CONTACT	ALARMING SCENARIOS: POINT STATUS	ALARMING SCENARIOS: COMMAND FAILURE	ALARMING SCENARIOS: CALCULATED EVENT	ALARM PRIORITIES: NOTIFICATION	ALARM PRIORITIES: MINOR	ALARM PRIORITIES: MAJOR	ALARM PRIORITIES: CRITICAL	NOTES
ZONE SPACE TEMPERATURE			x		x						x				x			
ZONE SPACE TEMPERATURE SET POINT			x		x						x				x			
SUPPLY AIR DISCHARGE TEMPERATURE			x		x						x				x			
PRIMARY AIR DAMPER CONTROL				x	x						x				x			
VENTILATION AIR FLOW (CFM)			x		x						x				x			
HOT WATER 3-WAY VALVE STATUS[1]																		

NOTES:

1



VAV BOX CONTROL DIAGRAM

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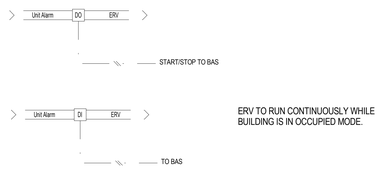
VAV BOX CONTROL DIAGRAM

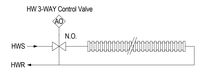
M-406

BIDDING



ERV TO RUN CONTINUOUSLY WHILE BUILDING IS IN OCCUPIED MODE.

ENERGY RECOVERY UNIT (ERV)

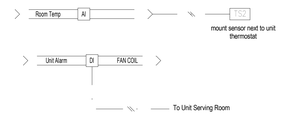


CONTROL VALVE TO BE TIED INTO BAS FOR MODULATION BASED ON OA TEMPERATURE. WHEN OUTSIDE AIR TEMPERATURE IS 40F OR BELOW, VALVE SHALL OPEN. WHEN TEMPERATURE IS 40F OR ABOVE, VALVE SHALL CLOSE

STAND ALONE BASEBOARD HEATER

CONTROL POINT SUMMARY FOR MDF SPLIT SYSTEM UNIT (TYPICAL)

CONTROL POINTS	DDC HARD WIRED POINTS			BAS APPLICATION					ALARMING SCENARIOS					ALARM PRIORITIES			
	SPACE INPUT (SI)	SPACE OUTPUT (SO)	ANALOG OUTPUT (AO)	TREND (TREND)	DUAL TEMP SET APPLICATION	SPACE TEMP APPLICATION	OCCUPIED SCHEDULE	LOCKOUT (LOCK)	OUT OF RANGE	OUT OF CALIB	COMMUNICATION	EVACUATION (EVAC)	NOTIFICATION	URGENT	HIGH	CRITICAL	NOTES
ZONE SPACE TEMPERATURE				•					•					•			
ZONE SPACE TEMPERATURE SET POINT				•					•					•			
NOTES:																	



TYPICAL FOR: IT ROOM MONITORING

MDF - SPLIT SYSTEM DIAGRAM

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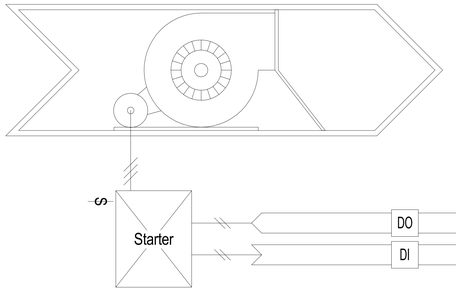
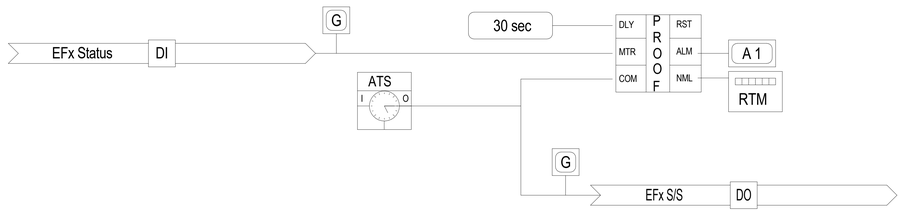
ERV, STAND ALONE BASEBOARD HEATER, MDF - SPLIT SYSTEM CONTROL DRAWINGS

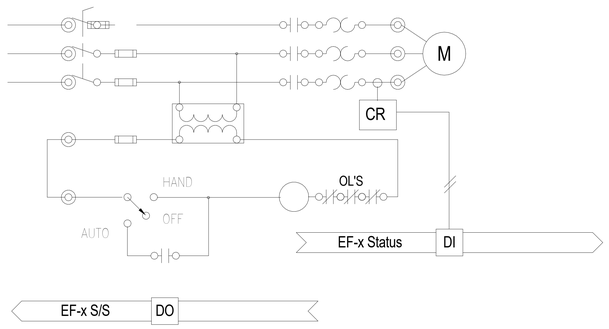
M-407

BIDDING

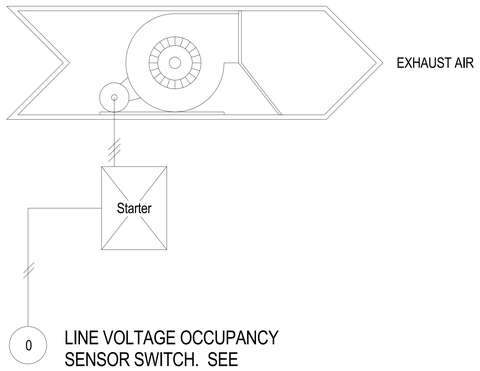




Toilet Exhaust Fan
* EF-112A
* EF-117A

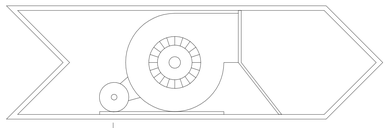


Typical Exhaust Fan Starter



LINE VOLTAGE OCCUPANCY SENSOR SWITCH. SEE PLANS FOR LOCATION. PROVIDE MANUAL OVERRIDE SWITCH ON OCCUPANCY SENSOR IN ROOM.

Occupancy Sensor Controlled Exhaust Fan
* EF-103
* EF-112B
* EF-122B
* EF-123B
* EF-128A
* EF-130A
* EF-131B
* EF-131C
* EF-132A
* EF-134A
* EF-138A
* EF-144A
* EF-146A
* EF-148A
* EF-150A
* EF-205A
* EF-208
* EF-209
* EF-215A
* EF-220A
* EF-225A
* EF-227A
* EF-229A
* EF-231A



OVERRIDE EXHAUST FAN TO ON WHEN REFRIGERANT LEAK SENSOR IS ENGAGED WITHIN THE ROOM. WHEN ENGAGED EXHAUST FAN TO COME ON, AND LOUVER TO OPEN.

LINE VOLTAGE THERMOSTAT. SEE PLANS FOR LOCATION. PROVIDE MANUAL OVERRIDE SWITCH ON THERMOSTAT IN MECHANICAL ROOM.

T-Stat Controlled Exhaust Fan
* EF-200

Exhaust Fans Sequence of Operations

A. Toilet and General Exhaust fans BAS shall control the starting and stopping of these fans as follows.
   1. Start/Stop: BAS shall command the operation of the Exhaust fan and it shall run continuously during the occupied period.
2. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of the exhaust fan, the BAS shall enunciate an alarm as specified above.

B. Wall switch controlled exhaust fans shall be controlled by room wall switch/vacancy sensor so when light is on, fan is on.

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EXHAUST FAN CONTROL DIAGRAM

M-408
BIDDING

AHU - SINGLE ZONE

	INPUTS															OUTPUTS									SYSTEM FEATURES													
	ANALOG						DIGITAL									ANALOG		DIGITAL							ALARMS				MISCELLANEOUS									
	TEMPERATURE SENSOR	HUMIDITY SENSOR	PRESSURE	AIRFLOW MEASUREMENT	SETPOINT ADJUST	POSITION FEEDBACK	OTHER	DIFFERENTIAL PRESSURE SWITCH	FLOW SWITCH	CURRENT SWITCH	THERMOSTAT	HUMIDISTAT	STATUS	ALARM	OVERRIDE	OTHER	MODULATING	SPEED	VARIABLE SPEED	OTHER	ENABLE/DISABLE	START/STOP	OPEN/CLOSE	ON/OFF	OTHER	HIGH ANALOG	LOW ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	RUNTIME	TREND	OPTIMAL START	SCHEDULING	PASSING	SYSTEM GRAPHIC	CUSTOM REPORT	NOTES
S.O.A.P. OUTSIDE AIR TEMPERATURE	X																												X	X				X	
S.O.A.P. OUTSIDE AIR HUMIDITY		X																											X	X				X	
S.O.A.P. OUTSIDE AIR DAMPER						X																							X	X				X	
EXTERIOR OUTSIDE INCOMING AIR DAMPER													X									X										X	X	X		1
FILTER DIFFERENTIAL PRESSURE TRANSMITTER			X																							X				X				X	
MODULATING GAS BURNER																	X	X													X			X	
TEMPERED AIR TEMPERATURE	X																									X	X			X				X	
SAFETY LOW LIMIT THERMOSTAT - 40 DEGREES F												X															X	X						X	
COOLING COIL LEAVING TEMPERATURE SENSOR	X																									X	X			X				X	
SUPPLY FAN LOW-PRESSURE STATIC PRESSURE SWITCH								X																									X	X	X		1
SUPPLY FAN START-STOP																				X											X					
SUPPLY FAN VFD																																					3
SUPPLY FAN VFD STATUS													X																	X						
SUPPLY FAN VFD FAULT														X																X						
SUPPLY FAN SPEED CONTROL																			X											X				X		
SUPPLY FAN HIGH-PRESSURE STATIC PRESSURE SWITCH								X																									X	X			
SAFETY LOW LIMIT THERMOSTAT - 35 DEGREES F											X																			X				X	X		
DISCHARGE AIR TEMPERATURE	X																									X	X			X				X		
SPACE TEMPREATURE SENSOR											X																										
DISCHARGE AIR DUCT DETECTOR														X																X	X				X		2
SUPPLY DUCT STATIC PRESSURE			X																							X	X			X				X		
BUILDING STATIC PRESSURE SENSOR			X																																	
RETURN AIR SMOKE DETECTOR														X																X	X				X		2
RETURN AIR TEMPERATURE	X																									X	X			X				X		
RETURN AIR CO2					X												X														X	X			X		
RETURN AIR HUMIDITY		X																												X	X				X	
RETURN LOW-PRESSURE SAFETY SWITCH								X																						X	X				X		1
RETURN FAN START-STOP																				X											X					
RETURN FAN VFD																																					3
RETURN FAN VFD STATUS													X																	X						
RETURN FAN VFD FAULT														X																X						
RETURN FAN SPEED CONTROL																			X											X				X		
RETURN FAN HIGH-PRESSURE STATIC PRESSURE SWITCH								X																						X	X				X		1
EXHAUST AIR DAMPER						X																								X					X		
EXTERIOR EXHAUST DISCHARGE DAMPER													X									X										X	X	X		1

NOTES:

1. THIS POINT SHALL BE HARDWIRED TO FAN SHUTDOWN.
2. SMOKE DETECTORS SHALL HAVE STAND ALONE RELAYS (HTRI's) HARD WIRED TO BUILDING SIEMENS FIRE ALARM SYSTEM BY OTHERS. WHEN SMOKE DETECTORS ARE ENGAGED, THERE SIGNALS TO INITIATE THE SHUTDOWN FUNCTION OF THE AHU
3. PROVIDE A FULL BACNET CONNECTION TO EACH VFD. PROVIDE ALARM STATUS, OPERATING AMPS, HP, SPEED, ETC ON THE SYSTEM GRAPIC

Sequence of Operations
Lincoln Irving

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up (Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied Mode:
During occupied periods, the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The unit controller shall control the supply fan speed to maintain the current duct static pressure setpoint (adj.). The DX cooling and gas heat shall modulate to maintain the current discharge air temperature setpoint if economizing is enabled the outside air damper shall modulate to maintain the current discharge air temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan, outside air damper and return air damper shall remain closed and the gas heat shall be enabled. When the space temperature is above the unoccupied heating setpoint of 80.0 deg. F (adj.) plus the unoccupied differential of 4.5 deg. F (adj.) the supply fan shall stop and the gas heat shall be disabled
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.5 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is enabled the supply fan shall operate, the outside air damper and the heat source air damper shall remain closed. When the average space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the average space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Occupied Bypass:
The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the BAS shall transition the associated occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:
The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by modulating the economizer or staging the condensing unit as required to maintain the discharge air setpoint.

Heating Mode:
During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request will be communicated to the system . The VFD shall be commanded to 100% and the gas burner to energize to modulate to satisfy the zone temperature setpoints.

Demand Control Ventilation (DCV):
If the return CO2 level is greater than or equal to the Design Minimum CO2 Setpoint of 900PPM (adj), the outdoor air damper shall open to the Design Minimum Outdoor Air Damper Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.
If the return CO2 level is less than or equal to the DCV Minimum CO2 Setpoint of 900PPM (adj), the outdoor air damper shall close to the DCV Minimum Outdoor Air Damper Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request if the return CO2 level is greater than the DCV Minimum CO2 Setpoint and less than the Design Minimum CO2 Setpoint, the outdoor air damper position shall be modulated proportionally to the space CO2 level relative to a target position between the DCV Minimum CO2 Setpoint and the Design Minimum CO2 Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.

Economizer:
The supply air sensor shall measures the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is in occupied mode, the economizer damper shall modulate from its minimum position to 100% to maintain the discharge air temperature setpoint. The economizer damper shall modulate toward minimum position in the event the discharge air temperature falls below the discharge low limit temperature setpoint. Compressors shall be delayed from operating until the economizer has opened to 100%.
Reference Dry Bulb:
Outside air temperature shall compared with a reference dry bulb setpoint. The economizer shall be enable when the outdoor air temperature is less than or equal to reference dry bulb setpoint. The economizer shall be disabled when outdoor air temperature is greater than reference dry bulb setpoint + 5.0 deg. F.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode. A differential pressure switch shall monitor the differential pressure across the fan. If the switch does not open within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall stop, requiring a manual reset.

Supply Duct Static Pressure Control:
During the occupied mode the unit controller shall modulate the output to the VFD as required to maintain the duct static pressure setpoint of 1.5 inches of W.C. (adj.). If the duct static pressure falls below 1.3 inches of W.C. (adj.) the unit controller shall increase the output to the VFD to maintain setpoint. If the duct static pressure rises above 1.7 inches of W.C. (adj.) the unit controller shall decrease the output to the VFD to maintain setpoint. During the unoccupied mode the unoccupied mode the unit controller shall modulate the speed of the VFD to 10%.
If for any reason the supply air pressure exceeds the supply air pressure high limit , the supply fan shall shut down. The unit shall be allowed to restart three times after a 15 minute off period. If the overpressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

Building Pressure Control:
A differential pressure transducer shall actively monitor the difference in pressure between the building (indoors) and outdoors. If the building pressure increases above the differential pressure setpoint, the unit controller shall turn on the exhaust fan and modulate the exhaust fan damper to control building pressure to the differential pressure setpoint. If the building pressure decreases below the differential pressure setpoint, the controller shall deactivate the exhaust fan and close the exhaust damper.

Exhaust Fan Status:
A differential pressure switch shall monitor the differential pressure across the fan. If the switch is detected to be open for 40 consecutive seconds after a request for exhaust fan operation a fan failure alarm shall be annunciated at the BAS and the exhaust fan shall stop. A manual reset shall be required.

Smoke Detector Shutdown: The unit shall shut down in response to a signal from either smoke detector indicating the presence of smoke. The smoke detectors shall be interlocked to the unit through the dry contacts of the smoke detectors. A manual reset of the smoke detectors shall be required to restart the unit.

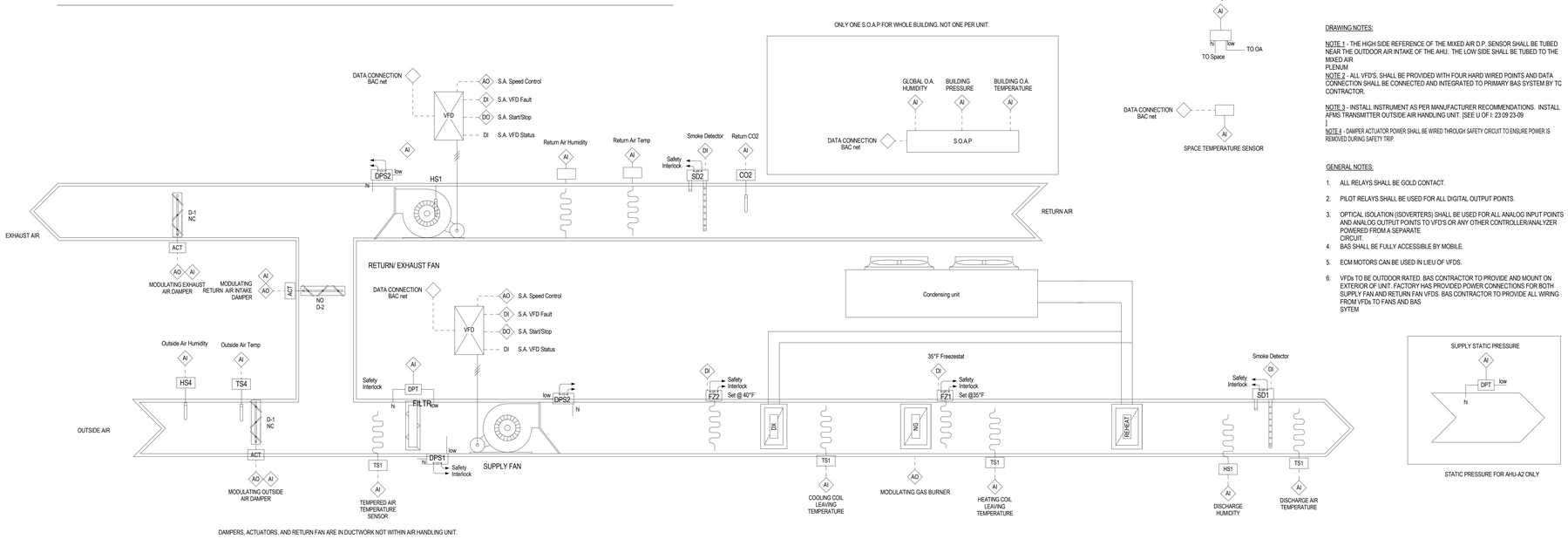
Filter Status:
A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be annunciated at the BAS.

Return air humidity :
In cooling mode if the return air humidity is above 60% RH (adj):
Unit to remain in cooling mode and open up inverter valve to energize hot gas reheat. Cooling coil set point to be SSP and disable temperature reset. Discharge air temperature out of the unit to be set at 75F-75F. Once the RH is reached cooling coil temperature set point to return to normal set points and resets to be enabled. Refer to air handler schedule for discharge air temperature.

Demand control ventilation :
If return air C

Generator back up mode :
If an event of power failure unit to switch to secondary electrical feed. Unit to go into occupied heating mode. Outside air damper to open to minimum position for ventilation. Gas heat to modulate to maintain leaving discharge air temperature until space temperature meets occupied set points.

ONLY ONE S.O.A.P FOR WHOLE BUILDING. NOT ONE PER UNIT.



DAMPERS, ACTUATORS, AND RETURN FAN ARE IN DUCTWORK NOT WITHIN AIR HANDLING UNIT.

DRAWING NOTES:

NOTE 1 - THE HIGH SIDE REFERENCE OF THE MIXED AIR D.P. SENSOR SHALL BE TUBED NEAR THE OUTDOOR AIR INTAKE OF THE AHU. THE LOW SIDE SHALL BE TUBED TO THE MIXED AIR PLENUM

NOTE 2 - ALL VFD'S, SHALL BE PROVIDED WITH FOUR HARD WIRED POINTS AND DATA CONNECTION SHALL BE CONNECTED AND INTEGRATED TO PRIMARY BAS SYSTEM BY TC CONTRACTOR.

NOTE 3 - INSTALL INSTRUMENT AS PER MANUFACTURER RECOMMENDATIONS. INSTALL AFMS TRANSMITTER OUTSIDE AIR HANDLING UNIT. [SEE U OF I: 23 09 23-09].

NOTE 4 - DAMPER ACTUATOR POWER SHALL BE WIRED THROUGH SAFETY CIRCUIT TO ENSURE POWER IS REMOVED DURING SAFETY TRIP.

GENERAL NOTES:

1. ALL RELAYS SHALL BE GOLD CONTACT.
2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.
3. OPTICAL ISOLATION ((SOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
4. BAS SHALL BE FULLY ACCESSIBLE BY MOBILE.
5. ECM MOTORS CAN BE USED IN LIEU OF VFDS.
6. VFDs TO BE OUTDOOR RATED. BAS CONTRACTOR TO PROVIDE AND MOUNT ON EXTERIOR OF UNIT. FACTORY HAS PROVIDED POWER CONNECTIONS FOR BOTH SUPPLY FAN AND RETURN FAN VFDS. BAS CONTRACTOR TO PROVIDE ALL WIRING FROM VFDs TO FANS AND BAS SYTEM

HORIZONTAL AIR HANDLING(GAS/ DX) SINGLE ZONE UNIT TYPICAL

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/2025
DRAWN BY	BMA
REVIEWED BY	RK

HORIZONTAL AIR HANDLING (GAS/DX) SINGLE ZONE CONTROL DIAGRAM

M-409

BIDDING

CAPTIVEAIRE

Job Name: Lincoln Irving KVS R3 - DOAS-EF
Date: September 2, 2025 4:45 PM

CAS-HVAC3-I.300-24-15T (#1) KRTU-1 Weight: 2634 lbs./122 curb

RTU with Indirect Fired Heat and 24" Direct Drive Mixed Flow Plenum Fan, 1 Furnace, Electronic Full Modulation, Constant 81% Efficiency, and 14:1 Max Turndown for NG, (12:1 Max Turndown for LP). Stainless Steel Burner and Heat Exchanger.

SUPPLY MOTOR

Model DTP0056 • 5.000 HP, 3 Phs, 460 V, 60 Hz, 7.2 FLA, ODP, Premium (E-Plus3) Eff.

SUPPLY PERFORMANCE

Supply Air:	4275 CFM	RPM:	1213
Return Air:	3075 CFM	Outdoor Air:	1200 CFM
Tip Speed:	7622 ft/min	BHP:	3.1360
SP:	2.045" w.g. (1.250" Ductwork Discharge ESP + 0.795" Opt.)		
Altitude:	676 ft		

BLOWER

24 Inch Mixed Flow Plenum Fan for size 3 RTU. Hub specified to match motor shaft.

TEMPERATURE CONTROL

FARS KITCHEN MUA/RTU • Occupied/Unoccupied Scheduling • Space Temp Control Heating and Cooling Activation Based On Either Set Point • Manual Blower Mode • Smoke Detector Interlock • Space Sensor Ships Loose

AIRFLOW DIRECTION

- Down Discharge - Air Flow Left -> Right

CURB & SUPPORTS

- ROOF CURB - 59.5" Width, 91" Length, 18" Supply Height, 2" R-13 Insulated.

HEATING SCHEDULE

Altitude:	676 ft
Winter Outdoor Air Dry Bulb Temp:	-4.0°F
Winter Mixed Air Dry Bulb Temp:	48.6°F
Temp Rise:	52.0°F
Output BTU:	243,000 BTU/Hr
Input BTU:	300,000 BTU/Hr
Based Off:	BTUs Actual Air Density
Gas Type:	Natural

COOLING SCHEDULE

Outdoor Air Dry Bulb Temp:	88.7°F
Outdoor Air Wet Bulb Temp:	79.0°F
Max Outdoor Air %:	28%
Mixed Air Dry Bulb Temp:	78.8°F
Mixed Air Wet Bulb Temp:	67.5°F
Mixed Air Dew Point:	62.0°F
Leaving Dry Bulb Temp (Coil):	51.7°F
Leaving Wet Bulb Temp (Coil):	51.7°F
Leaving Dry Bulb Temp (Unit):	53.6°F
Leaving Wet Bulb Temp (Unit):	52.5°F
Leaving Dew Point:	51.8°F
Moisture Removal Rate:	68.6 Lb/Hr
Total Capacity:	204.6 MBH
Sensible Capacity:	125.9 MBH
Latent Capacity:	78.6 MBH
Reheat Coil Capacity:	129.6 MBH
Reheat Coil Leaving Dry Bulb Temp:	70.0°F
Reheat Coil Leaving Wet Bulb Temp:	59.0°F
Reheat Coil Leaving Relative Humidity:	53%
IEER:	18.8
ISMRE2:	8.3

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SUPPLY INSTALLATION INFORMATION

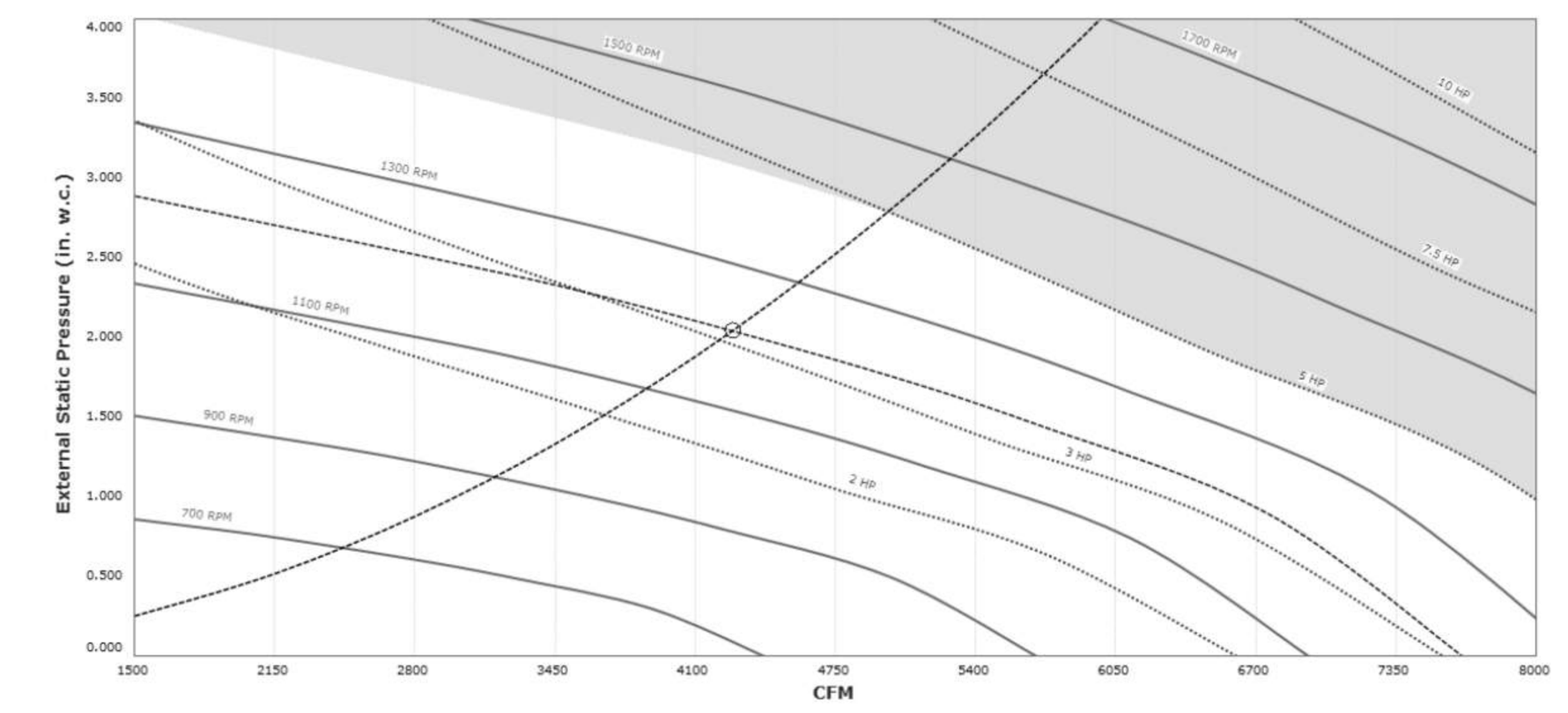
Gas Pressure:	7 in. w.c. - 14 in. w.c.
Insurance Requirements:	No Insurance Requirement (ANSI)
Unit Voltage:	3 phs 460 V 60Hz
Unit Main Input:	34.5 Amps MCA • 40 Amps MOP • 460 V • 8 AWG Wire Min.
SCCR:	10 kAmp
A2L Min. Room Area / Airflow / Height:	572.7 ft2 • 1031 CFM • 7.2 ft **

** Minimum room area assumed 7.2' supply diffuser height and is calculated per UL60335-2-40 4th ed. Values based on factory charge. Actual site charge may differ.

CONFIGURED OPTIONS

- Gas Pressure Gauge, 0-35", 2.5" Diameter, 1/4" Thread Size
- Cooling Override
- RTU Blower Door Switch. Used to turn on DOOR INTERLOCK Schematic Layer. Does Not Include Door Switch.
- RTU Size 3 Down Discharge
- 2" Merv 13 Filters for Size 3 RTU. QTY 4, 20 x 25 x 2 Merv 13 Filters
- 2" Merv 8 Filters for Size 3 RTU. QTY 4, 20 x 25 x 2 Merv 8 Filters
- Overheat Stat factory set at 80°F and 10 minutes. Prevents unit from overheating the space when cooling.
- CFM monitoring for MUA units. Uses rivet nuts, 1/4" airflow tubing and push to connect fittings.
- Occupied Scheduling Defaulted for IBT/RTU.
- Intake Firestat. Set to 135°F
- Freezestat
- Discharge Firestat. Set to 240°F
- CASLink building monitoring system communications module. Requires internet & field wired ethernet connection or 3G cellular service. Includes Rev 3 Comm Module, RJ45 to modbus converter, 3 FT cat5 cable, and 1 FT of shielded twisted pair.
- Size 3 RTU Curb Duct Hanger - Adjustable Duct Hanger Support Brackets installed for both return and discharge duct.
- Commercial Smoke Detector Interlock (Detector By Others)
- Control panel enclosure heater, includes 100w, 120v heater. Recommended for winter design temperature less than 0°F. Operates on PCB controls in IBT Single Modules or RTU
- Factory Assembled Heated Drain Kit for RTU. Required for Winter Design Temp of 0 degrees F and lower.
- High Turndown Option for DOAS
- Gas Pressure Gauge, 0 to +10 Inches Wc., 2.5" Diameter, 1/8" Thread Size, Rear Thread, For 2 Furnaces
- Clogged Filter Switch with Notification on HMI
- GFCI 15 amp Convenience Outlet For RTU3 Enclosure. 120V power supply by others. Includes receptacle, jbox & cover.
- Barometric Relief for RTU Size 3 Economizer
- Differential enthalpy controls that modulate OA percentage based off return air temperature and relative humidity.
- RTU Manual 0-10V Intake Control. Actuator Control by 0-10VDC Output on Control Board. Intake Position Controlled Manually via HMI.
- Option for Metal Mesh Filters in RTU3 OA Intakes
- RTU Size 3 Hail Guard for outdoor coil. Includes magnets and washers for installation.
- RTU Size 3 Down Return
- 24VAC Fire Input
- VFD factory mounted and wired in unit control vestibule.
- Single Point Electrical Connection for RTU. QNTY 1 750va Transformer Used. If a Non-DCV Prewire controls this unit, the #28, #47, "MA", or "E2" Option Prewire must be selected. Do not provide supply starter in prewire.
- VAV (Variable-Air-Volume) Wiring Package for Commercial Fans. Manual Speed Control Variable Frequency Drive Included
- Supply Variable Frequency Drive - 5 HP Max., 400/480 V, Three Phase, 9.4/8.2 A Max., NEMA 1 Enclosure, with 2RJ-45 FOR MODBUS
- Mount Load Reactor in Fan.
- 15 Ton Modulating Cooling Option, 460/480V. R454B Refrigerant, Variable Speed Inverter Duty Compressor, ECM Condensing Fan(s).
- RTU Compressor Oil Sensor Factory Installed. M12 Style Connector.
- Low ambient cooling controls down to 0F ambient temperatures. To be used in recirculating applications.
- R454B Refrigerant Leak Detector Option. Includes 20% LFL sensor and harness.
- 15 Ton Cooling Only Modulating Reheat Option for Space Control - R454B
- Option to factory install RTU compressor sound blanket. Used on 15T 460/575V units.

Generated for job # 8202996



CAS-HVAC3-I.300-24-15T SOUND (1213 RPM) AT 5 FT. IN OCTAVES:

1	2	3	4	5	6	7	8
82.9	83.3	80.8	79.9	77.9	72.5	68.4	67.4

LWA:	82.2	Sones:	17.9	DBA:	70.9

Note: Sound data across operational range. Tested in accordance to AHRI Standard 270/370.

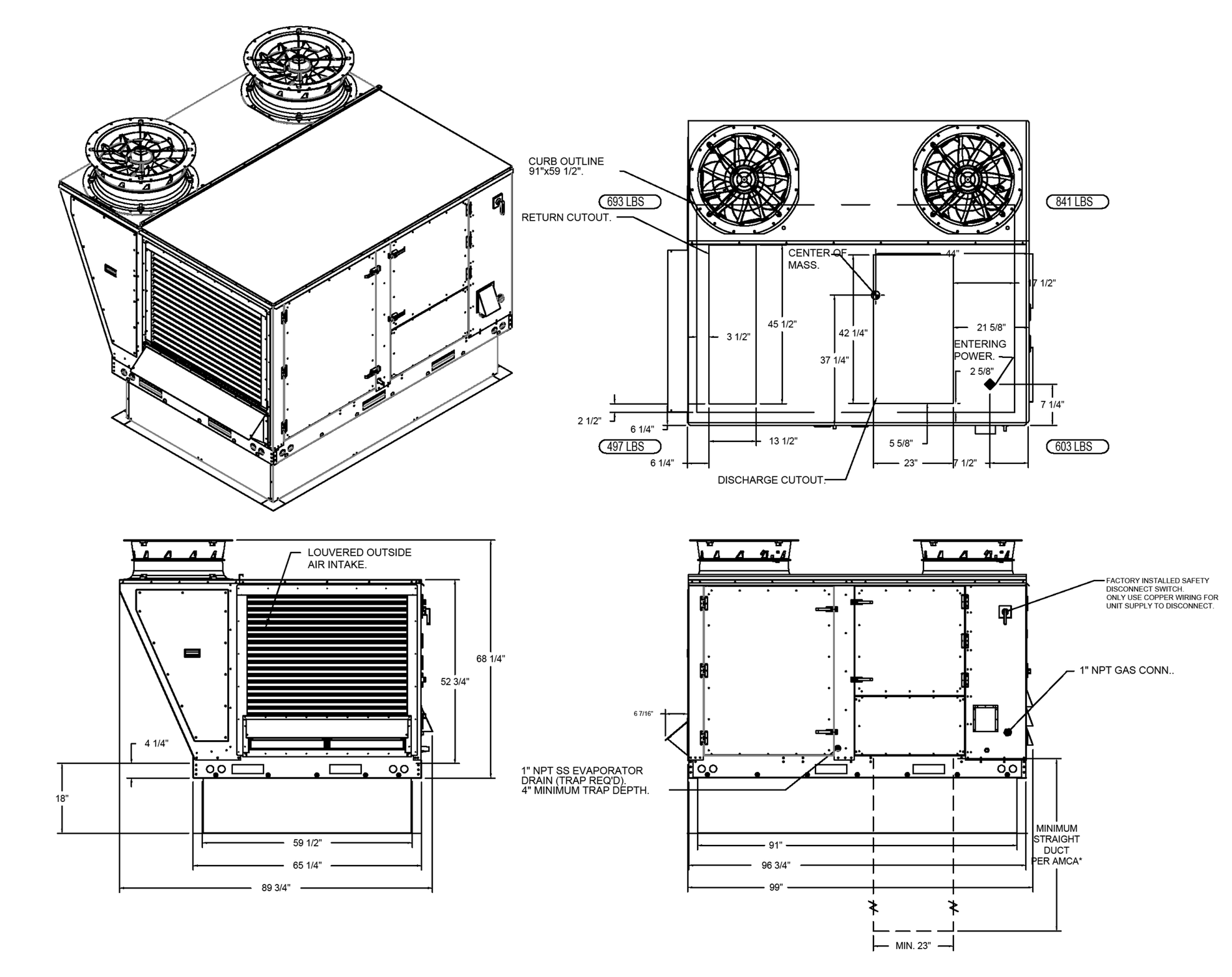
FAN #1 CAS-HVAC3-I.300-24MF-15T - HEATER (KRTU-1)

NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. (   ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

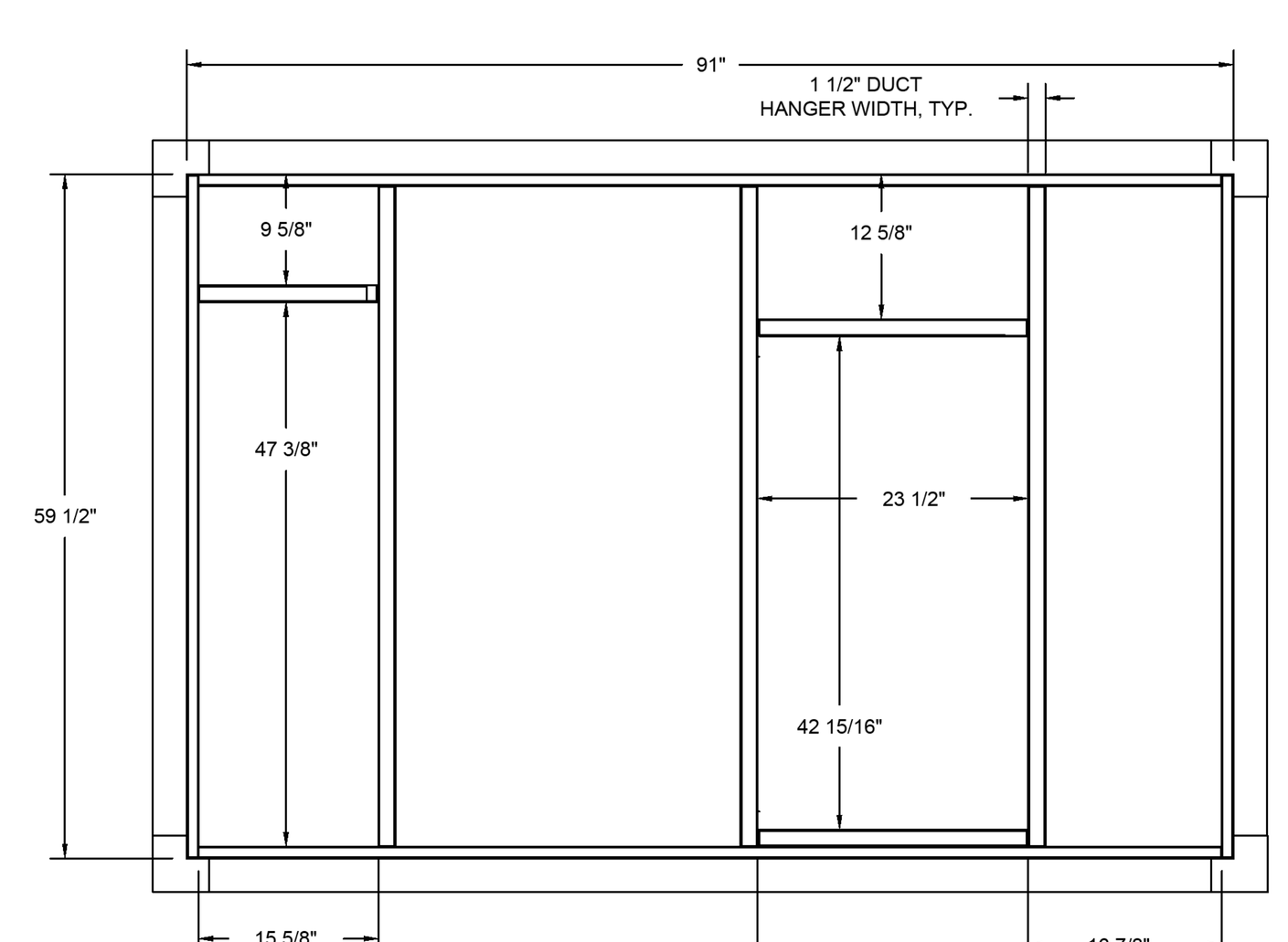
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

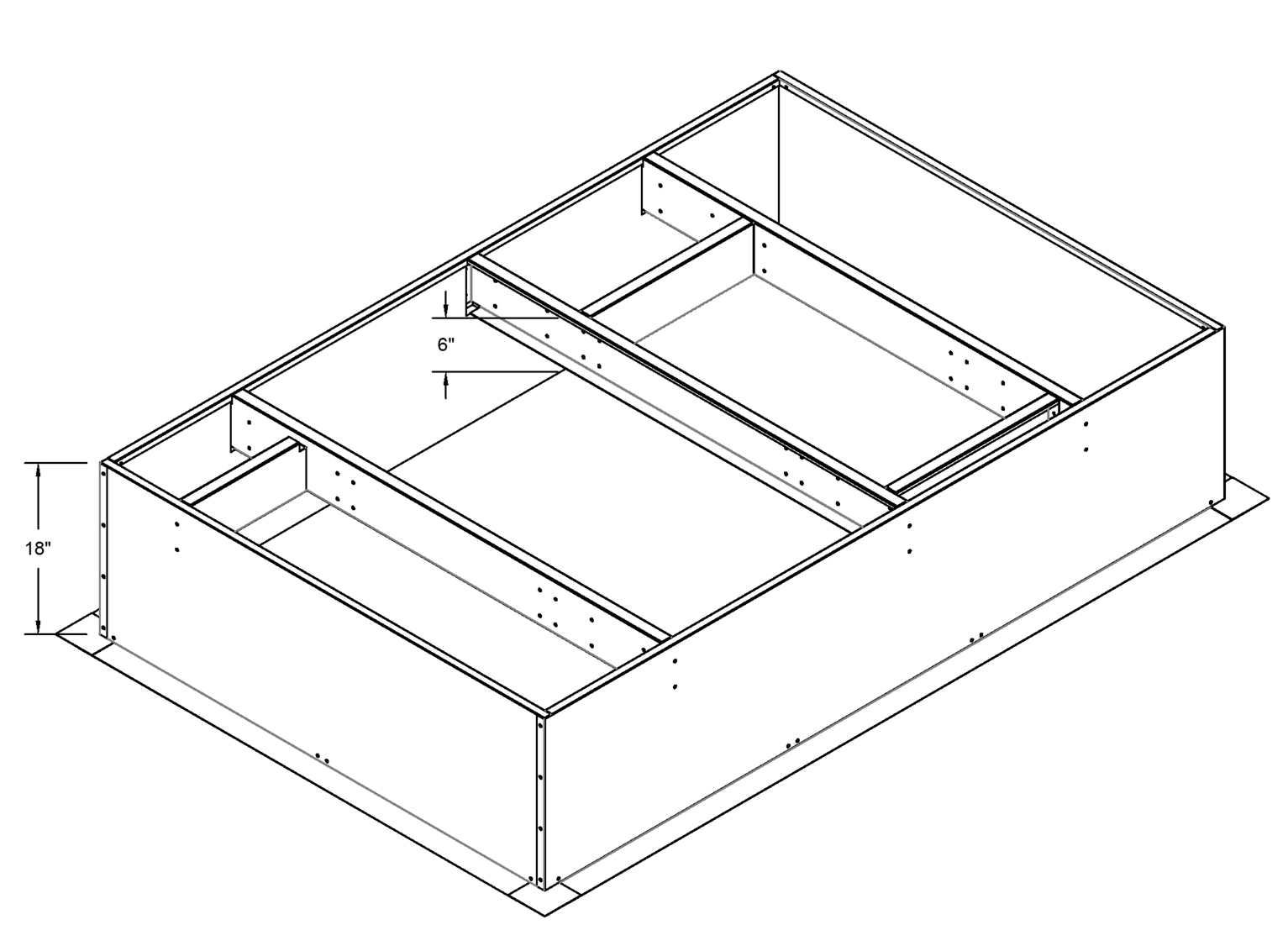
***NOTE: THIS UNIT IS INTENDED TO SERVE IN PLACE OF THE KITCHEN HVAC ROOF TOP UNIT (RTU) IN ADDITION TO PROVIDING APPROPRIATE MAKE-UP AIR FOR THE KITCHEN HOOD(S). RTU AND ASSOCIATED DUCTWORK SHALL BE REMOVED FROM SCOPE UNLESS REQUIRED FOR INTERNAL LOAD ESTIMATES. FINAL DESIGN SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.**

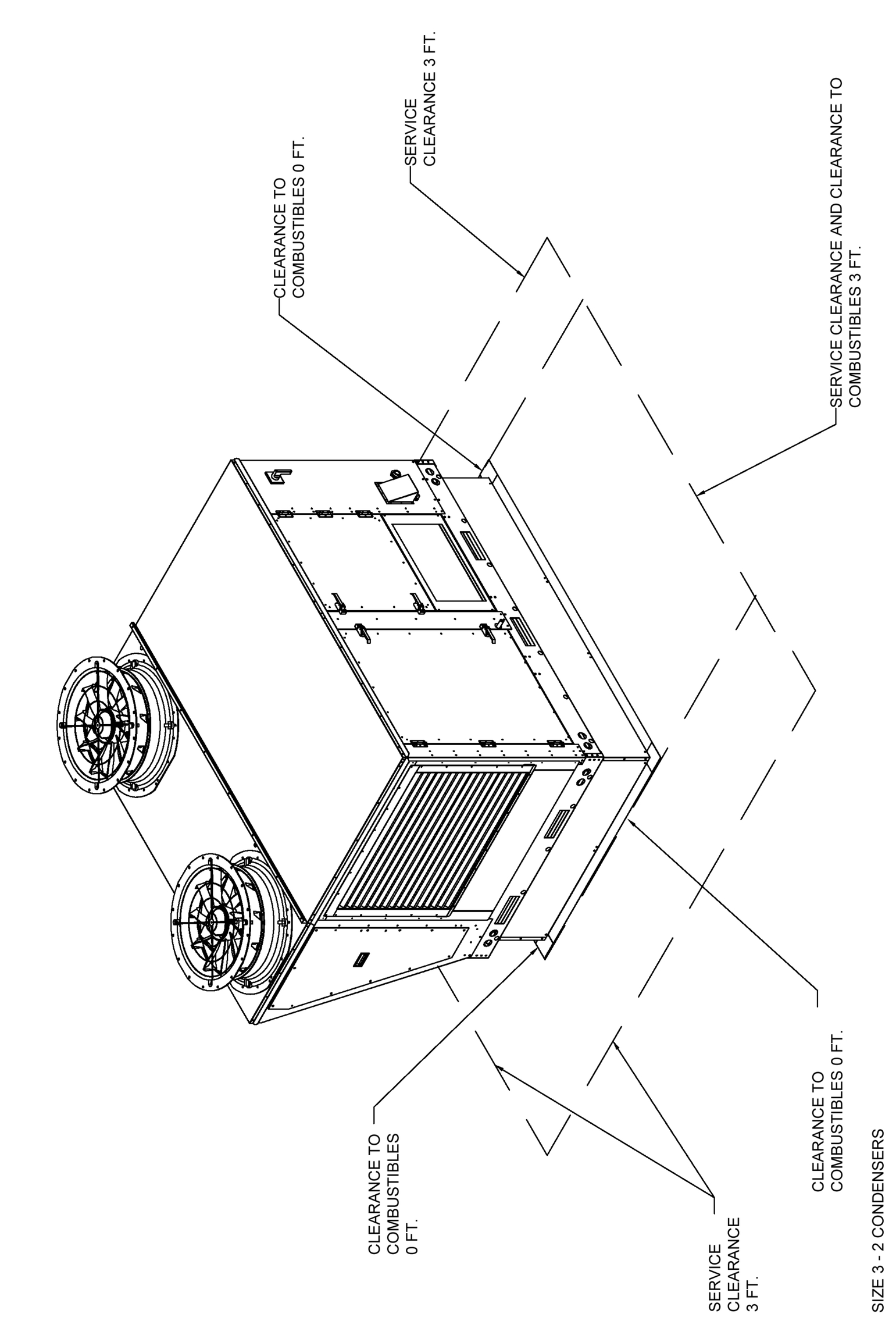
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 23" x 39".

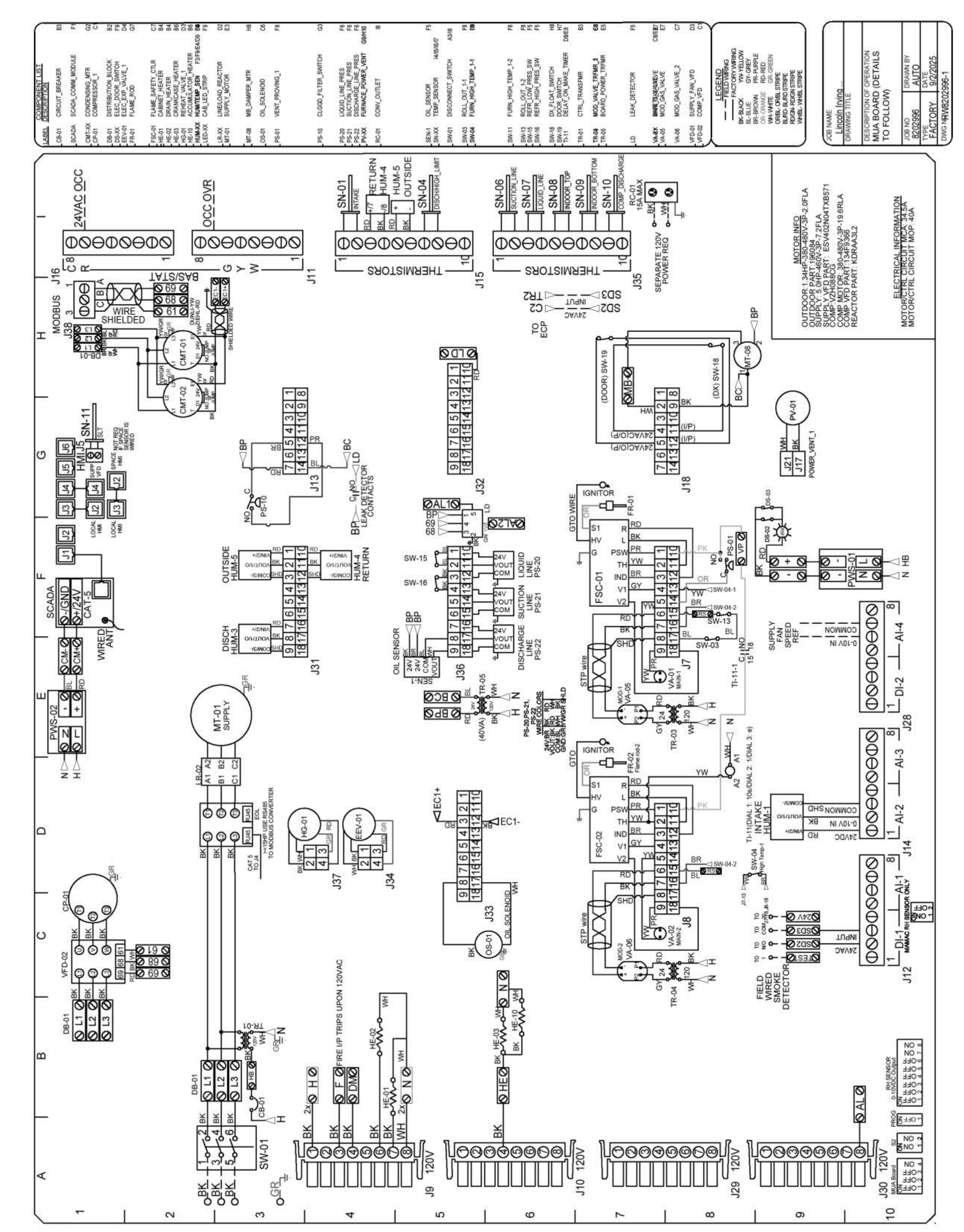


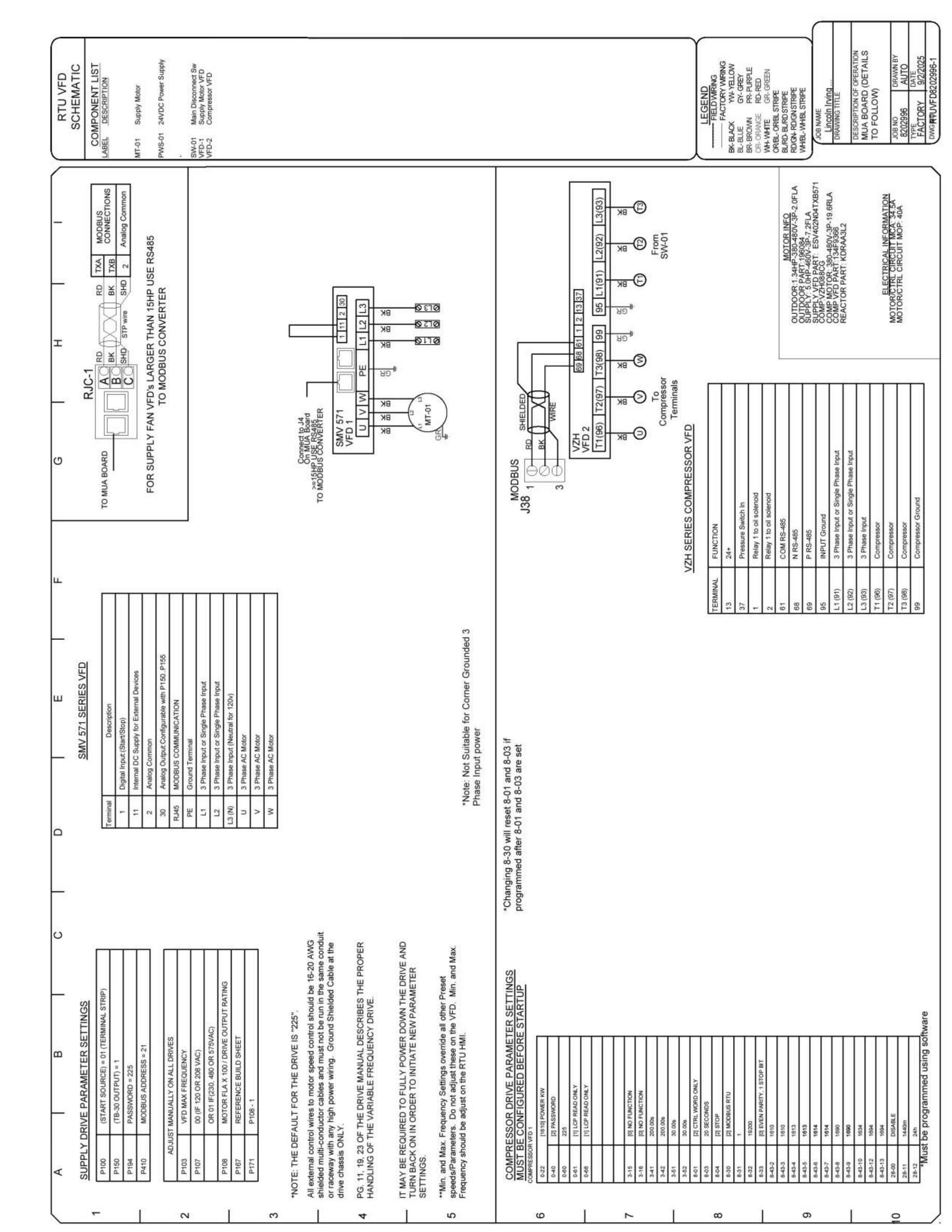
Fan #1 Curb
ROOF CURB - 59.5" Width, 91" Length, 18" Supply Height, Insulated.

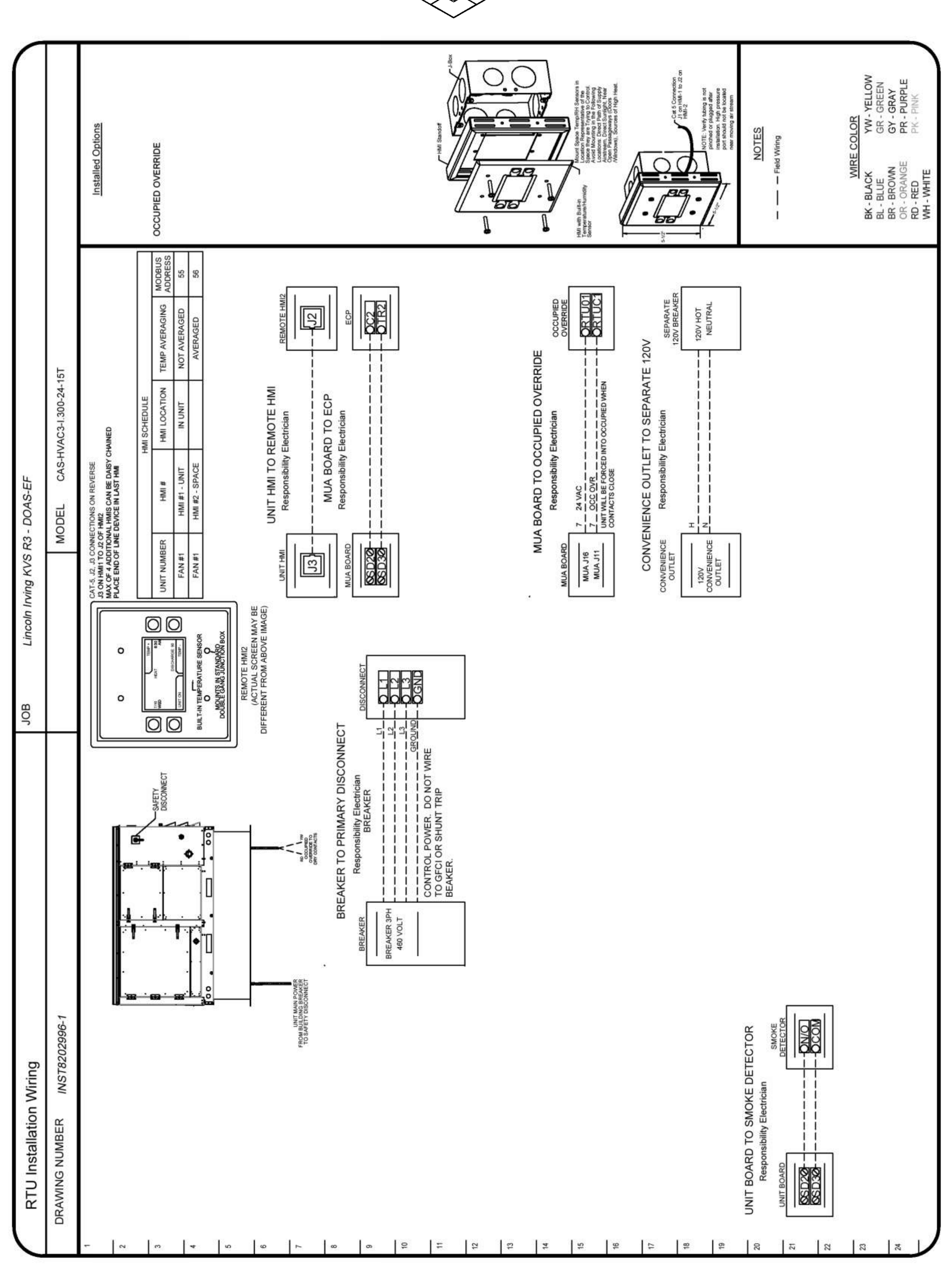












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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/2025
DRAWN BY	BMA
REVIEWED BY	RK

CAPTIVEAIRE DRAWINGS - MUA UNIT

M-501

BIDDING

CAPTIVEAIRE

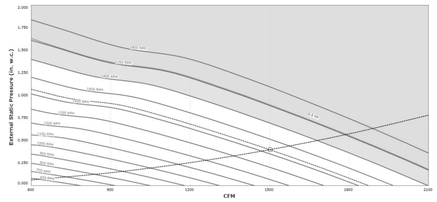
Job Name: Lincoln Irving KVS R3 - DOAS-EF

Date: September 2, 2025 4:45 PM

DU50HFA (#2)

KEF-1 | Weight: 79 lbs /31 curb

High Speed Direct Drive Centrifugal Upblast Exhaust Fan with speed control (speed control included for single phase only), disconnect switch and 13-3/4" wheel.



EXHAUST MOTOR

Model BMN48-373/1-ES-MS2-CA-60-115 • 0.500 HP • 1 Pha • 115 V • 60Hz • 6.3 FLA • TEAO-ECM (Totally Enclosed Air Over Electronically Commutated Motor)

EXHAUST PERFORMANCE

Volume:	1502 CFM	RPM:	1429	TS:	5144 ft/min
Static Pressure:	0.400" w.g.	BHP:	0.295	Discharge Velocity:	571 FPM
Altitude:	67ft	Ambient Temp:	120.0°F	FEI:	1.301

EXHAUST INSTALLATION INFORMATION

Unit Voltage:	1 pha 115 V 60Hz
Unit Main Input:	7.9 Amps MCA • 15 Amps MOP • 115 V • 14 AWG Wire Min.
SCCR:	10 kAmp

CONSTRUCTION FEATURES

- Housing constructed of heavy gauge aluminum
- Centrifugal backward inclined, non-overloading wheel
- Weatherproof safety disconnect switch
- Grease spout weldded to housing
- Vibration isolators
- Continuous duty, thermal protected, permanently lubricated, direct drive motor
- Forces fresh air through motor to ensure long motor life
- Variable Speed Control on Single Phase Units Only. (VFDs required to adjust speed for 3 phase versions)
- Corrosion resistant fasteners
- Thermal overload protection
- High heat operation (400 °F)
- Rated for restaurant and general ventilation applications
- Grease classification tested

CURB & SUPPORTS

- ROOF CURB - 19-1/2" sq. x 20" high.
- Hinge Kit

CONFIGURED OPTIONS

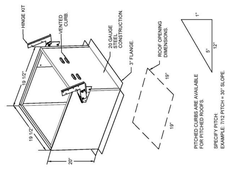
- Grease Cup for kitchen-duty centrifugal exhaust fans, Box Dimensions 17-1/8 L X 5-1/16 W X 3-3/4 H (20 Gauge) (Includes Down Spout)
- DU/SRD/HFA Gasketing Kit - Thermwel Woven Ceramic Tape - 1/4" x 1" with adhesive back - Max Temp 1500°F. To be applied between fan base and grease duct. Installed under fan base 1/2" from the inside. Installed at the plant.
- ECM Wiring Package and Manual or 0-10VDC Control for Exhaust EC motors. MSC Controller. **DO NOT ORDER UNDER WARRANTY, SEE PART NUMBER "CAS MSC**.

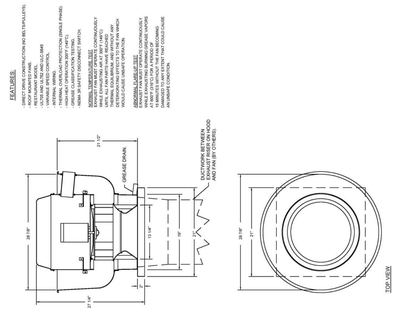
DU50HFA SOUND (1429 RPM) AT 5 FT. IN OCTAVES:

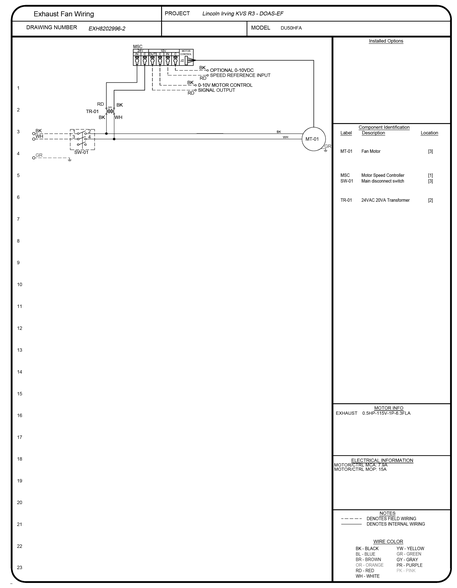
1	2	3	4	5	6	7	8
74.5	77	82.2	74.2	70	67.7	63.3	54.3

LWA:	77.6	Sones:	14	DBA:	66.1

Note: Sound data across operational range. Tested in accordance to AHRI Standard 270/370.







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REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY	RK

CAPTIVEAIRE DRAWINGS - EXHAUST FAN

M-502

BIDDING

HYDRONIC HEAT / DIRECT EXPANSION AIR HANDLER UNIT SCHEDULE

TAG	LOCATION	ASSOCIATED CONDESNING UNIT	REFRIGERANT DATA	DESIGN AIR TEMPS			COOLING CAPACITY		HEATING CAPACITY			FAN/MOTOR DATA						FILTERS	ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
				SUMMER		WINTER						SUPPLY			RET/EXH												
			REFRIGERATION TYPE	DB°F	WB°F	DB°F	GROSS (MBH)	SENSIBLE (MBH)	OUTPUT (MBH)	GPM	MAT (DB°F)	LAT (DB°F)	SA CFM	OA CFM	HP	ESP (IN W.C.)	RA CFM	HP	ESP (IN W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ			
AHU 1A	PENTHOUSE 158	CU 1A / CU 1B	R-454B	92	73	-4	922	567	977	100 GPM	52	91	22500	4500	40	3.00	22500	25	3.00	MERV 8	4	93	125	480	3	60	12699	YORK	XTI-108X84	ALL
AHU 1B	PENTHOUSE 158	CU 1C/ CU 1D	R-454B	92	73	-4	734	455	870	91 GPM	52	91	21075	4215	40	3.00	21075	25	3.00	MERV 8	4	93	125	480	3	60	12015	YORK	XTI-102X84	ALL
AHU 2A	PENTHOUSE 158	CU 2B	R-454B	92	73	-4	585	360	603	62 GPM	52	91	14125	2825	20	1.50	14125	15	1.50	MERV 13	4	52	70	480	3	60	8315	YORK	XTI-90X72	ALL
AHU 2B	PENTHOUSE 158	CU 2B	R-454B	92	73	-4	585	360	603	62 GPM	52	91	14525	2905	20	1.50	14525	15	1.50	MERV 13	4	52	70	480	3	60	8315	YORK	XTI-90X72	ALL

REMARKS:
1. 1 YEAR UNIT WARRANTY PARTS AND LABOR.
2. FULL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT FOR EQUIPMENT.
4. DUCT MOUNTED HUMIDITY SENSORS.
5. REFER TO CONTROL DRAWINGS COORDINATE FOR ALL CONTROL DAMPERS AND CONTROL POINTS NEEDED. CONTRACTOR TO COORDINATE WHAT IS TO BE PROVIDED BY FACTORY AND WHAT IS TO BE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.
6. PROVIDE WITH GALVANIZED STEEL DRAIN PAN.
7. PROVIDE VDF'S ON FANS ECM MOTORS WILL BE ACCEPTED AS EQUAL.
8. 3-WAY CONTROL VALVES TO BE WIRED AND CONNECTED PER MANUFACTURERS RECOMMENDATIONS.
9. VALVE TO RECEIVE CLEAN POWER FROM A 24V DC TRANSFORMER.
10. VALVE TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
11. VALVE TO BE LOCATED ON THE HOT WATER SUPPLY PRIOR TO UNIT CONNECTION.
12. COOLING COIL TO BE INSTALLED UPSTREAM FROM THE HEATING COIL.
13. PROVIDE WITH VIBERATION ISOLATION CURB.

GAS FIRED / DIRECT EXPANSION AIR HANDLER UNIT SCHEDULE

TAG	LOCATION	DESIGN AIR TEMPS			COOLING CAP.		HEATING CAP.					FAN/MOTOR DATA						FILTERS		ELECTRICAL DATA					TOTAL WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
		SUMMER		WINTER								SUPPLY			RET/EXH													
		DB°F	WB°F	DB°F	GROSS (MBH)	SENSIBLE (MBH)	INPUT (MBH)	OUTPUT (MBH)	EAT (DB°F)	LAT (DB°F)	AFUE%	STAGES	CFM	OA CFM	HP	ESP (IN W.C.)	CFM	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ				
AHU 114D	MEZZANINE 313	92	73	-4	534	328	600	486	52	90	81	2	10575	2115	15	1.50	10575	MERV 8	2	27	40	480	3	60	6751	YORK	XTI-66X84	ALL

REMARKS:
1. 1 YEAR UNIT WARRANTY PARTS AND LABOR.
2. FULL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT FOR EQUIPMENT.
4. DUCT MOUNTED HUMIDITY SENSORS.
5. REFER TO CONTROL DRAWINGS COORDINATE FOR ALL CONTROL DAMPERS AND CONTROL POINTS NEEDED. CONTRACTOR TO COORDINATE WHAT IS TO BE PROVIDED BY FACTORY AND WHAT IS TO BE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.
6. PROVIDE WITH GALVANIZED STEEL DRAIN PAN.
7. PROVIDE VDF'S ON FANS ECM MOTORS WILL BE ACCEPTED AS EQUAL.
8. PROVIDE WITH VIBERATION ISOLATION CURB.
9. UNIT TO BE CONNECTED TO EMERGENCY POWER.

GAS FIRED / DIRECT EXPANSION ROOFTOP UNIT SCHEDULE

TAG	LOCATION	REFRIGERANT DATA	SEER/EER/IEER	DESIGN AIR TEMPS			COOLING CAPACITY					HEATING CAPACITY					FAN/MOTOR DATA					FILTERS		ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
				SUMMER		WINTER											SUPPLY			RET/EXH											
		REFRIGERATION TYPE		DB°F	WB°F	DB°F	GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	LAT (WB°F)	STAGES	INPUT (MBH)	OUTPUT (MBH)	MAT (DB°F)	LAT (DB°F)	AFUE %	STAGES	SA CFM	OA CFM	HP	ESP (IN W.C.)	RA CFM	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ			
RTU 118	ROOF	R-454B	J-/18.8	92	73	-4	205	126	79	68	54	53	12	300	243	49	101	81	14	4275	1200	3.14	2.00	3075	MERV 13	2	35	40	480	3	60	2634	CAPTIVEAIRE	CAS-HVAC3-1-300-24-15T	ALL

REMARKS:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR, DIGITAL OR STAGED SCROLL NOT ON APPROVED EQUAL.
2. INTEGRATED MONITORING CONNECTION BY MANUFACTURER.
3. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE.
4. ECM MOTOR CONDENSING FANS.
5. ELECTRONIC EXPANSION VALVE, TXV NOT ACCEPTABLE.
6. SUCTION LINE ACCUMULATOR.
7. FACTORY COMMISSIONING WITH 5 YEAR PART WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER.
8. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE MOUNTED WITHIN UNIT).
9. 2" EXTERIOR DUAL WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE.
10. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 5:1 TURNDOWN WITH NG.
11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE.
12. 15 DEGREE LOW AMBIENT OPERATION.
13. HAIL GUARD FOR CONDENSING COIL.
14. FACTORY INSTALLED COMPRESSOR SOUND BLANKET.
15. RTU ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL.
16. BAROMETRIC RELIEF DAMPER.
17. DOWN DISCHARGE.
18. OUTSIDE AIR DAMPER CLOSED AUTO BLOWER DURING UNOCCUPIED (TURN DOWN BLOWER IF NEEDED AS WELL).
19. OUTSIDE AIR DAMPER OPEN TO MEET VENTILATION REQUIREMENTS WHEN OCCUPIED HOODS OFF.
20. OUTSIDE AIR DAMPER 100% WHEN OCCUPIED HOODS ON. PROVIDE LOW VOLTAGE INTERLOCK WITH COOK LINE

EXHAUST FAN SCHEDULE

TAG	TYPE	SERVICE	CFM	ESP (IN W.C.)	MOTOR DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
					HP	RPM	V	PH	HZ				
KEF-1	EXHAUST FAN	KITCHEN 118	178	0.15	0.17	625	120	1	60	53	GREENHECK	CUE-099-VG	1,2,5-7
EF-103	EXHAUST FAN	STAFF TOILET 103	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-109A	EXHAUST FAN	NURSE TOILET 109A	125	0.23	0.17	1050	120	1	60	10	GREENHECK	SP-B150	1-3,5,6
EF-112A	EXHAUST FAN	TOILET ROOM 112	250	0.15	0.17	936	120	1	60	34	GREENHECK	SQ-90-VG	1-3,4,6,9
EF-112B	EXHAUST FAN	TOILET 112	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-117A	EXHAUST FAN	TOILET 117A	200	0.15	0.17	749	120	1	60	43	GREENHECK	G-096-VG	1-3,5,6
EF-118D	EXHAUST FAN	JAN. 118D	250	0.15	0.40	941	120	1	60	24	GREENHECK	CSP-A390-VG	1-3,5,6
EF-121	EXHAUST FAN	CUSTODIAL 121	50	0.26	0.02	1300	120	1	60	28	GREENHECK	SQ-70	1,2,4-6
EF-122B	EXHAUST FAN	TOILET 122B	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-123B	EXHAUST FAN	TOILET 123B	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-128A	EXHAUST FAN	TOILET 128A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-130A	EXHAUST FAN	TOILET 130A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-131B	EXHAUST FAN	STAFF TOILET 131B	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-131C	EXHAUST FAN	STAFF TOILET 131C	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-132A	EXHAUST FAN	TOILET 132A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-134A	EXHAUST FAN	TOILET 134A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-138A	EXHAUST FAN	TOILET 138A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-144A	EXHAUST FAN	TOILET 144A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-146A	EXHAUST FAN	TOILET 146A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-148A	EXHAUST FAN	TOILET 148A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-150A	EXHAUST FAN	TOILET 150A	75	0.28	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-200	EXHAUST FAN	ELEVATOR 100	50	0.15	0.01	1050	120	1	60	37	GREENHECK	G-060-E	1-3,5,8
EF-205A	EXHAUST FAN	TOILET 205A	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-208	EXHAUST FAN	STAFF TOILET 208	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-208A	EXHAUST FAN	CUSTONDIAL 208A	150	0.17	0.02	777	120	1	60	11	GREENHECK	SP-A390-VG	1-3,5,6
EF-209	EXHAUST FAN	STAFF TOILET 209	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-215A	EXHAUST FAN	TOILET 215A	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-220A	EXHAUST FAN	TOILET 220A	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-225A	EXHAUST FAN	TOILET 225A	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-227A	EXHAUST FAN	TOILET 227A	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-229A	EXHAUST FAN	TOILET 229A	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-231A	EXHAUST FAN	TOILET 231A	75	0.17	0.01	773	120	1	60	8	GREENHECK	SP-UP0511-1	1,2,4,5
EF-235A	EXHAUST FAN	PENTHOUSE 235	180	0.20	0.02	1300	120	1	60	38	GREENHECK	G-070-G	1-3,5,6
EF-235B	EXHAUST FAN	PENTHOUSE 235	180	0.20	0.02	1300	120	1	60	38	GREENHECK	G-070-G	1-3,5,6

REMARKS:
1. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS TO EQUIPMENT.
2. MECHANICAL CONTRACTOR TO PROVIDE MOTOR STARTER.
3. FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. EXHAUST FAN TO BE CONNECTED TO BAS FOR MONITORING.
4. FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
5. PROVIDE BACKDRAFT DAMPER AND BIRDSCREEN AT DISCONNECT TO EXHAUST FAN OR EXHAUST RISER.
6. ROOF CURB TO BE A MINIMUM OF 24".
7. EXHAUST FAN IS TIED TO DISHWASHER SO WHEN DISHWASHER IS ON, EXHAUST FAN IS ON.
8. EXHAUST FAN TO BE CONTROLLED BY THERMOSTAT LOCATED IN ELEVATOR SHAFT. EXHAUST FAN TO TURN ON WHEN THE THERMOSTAT READS 85F.
9. EXHAUST FAN TO BE CONNECTED TO EMERGENCY POWER. EXHAUST FAN TO BE CONTROLLED BY EMERGENCY SWITCH LOCATED IN TOILET 112. PROVIDE LOW VOLTAGE 24V WIRE TO CORRESPONDING EMERGENCY SWITCH.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE WITH HOT WATER REHEAT

TAG	LOCATION	NECK SIZE (IN.)	DESIGN AIRFLOW		HEATING AIRFLOW (CFM)	HEATING CAP						CONTROL TYPE	MANUFACTURER	MODEL NO.	REMARKS
			MAX (CFM)	MIN (CFM)		MBH	GPM	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)				
VAV 001A	CORRIDOR C001	8	600	300	600	25.0	2.6	55	93	180	150	5.70	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 001B	CORRIDOR C001	8	425	200	425	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 101	RECEPTION 101	10	350	175	350	17.0	1.7	55	94	180	160	2.11	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 101A	CORRIDOR 101A	10	400	200	400	17.0	1.7	55	94	180	160	2.11	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 102	ADULT RESOURCE 102	6	100	50	100	8.0	0.9	55	94	180	160	0.38	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 104	CONFERENCE 104	10	325	150	325	17.0	1.7	55	94	180	160	2.11	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 105	PRINCIPAL 105	6	175	75	175	8.0	0.9	55	94	180	160	0.38	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 108	ASST PRINCIPAL 108	10	275	125	275	12.0	1.2	55	91	180	160	0.79	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 109	NURSE 109	10	250	125	250	12.0	1.2	55	91	180	160	0.79	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 110	FLEX OFFICE 110	6	100	50	100	8.0	0.9	55	94	180	160	0.38	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 113A	CORRIDOR 113	12	1475	725	1475	103.0	10.1	55	97	180	160	2.44	0.09	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 113B	CORRIDOR 113	12	1275	625	1275	90.0	8.8	55	95	180	159	3.32	0.13	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 113C	CORRIDOR 113	12	1475	725	1475	103.0	10.1	55	97	180	160	2.44	0.09	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 113D	CORRIDOR 113	10	700	350	700	34.0	3.5	55	94	180	160	1.86	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 113E	CORRIDOR 113	10	1200	600	1200	47.0	4.8	55	91	180	160	3.91	0.05	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 115	STAGE / MUSIC 115	12	1600	800	1600	103.0	10.1	55	97	180	160	2.44	0.09	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 116	ORCHESTRA 116	10	1200	600	1200	47.0	4.8	55	91	180	160	3.91	0.05	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 117A	CAFETERIA 117	18	2400	1200	2400	139.0	14.0	55	109	180	160	9.37	0.22	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 117B	CAFETERIA 117	18	2400	1200	2400	139.0	14.0	55	109	180	160	9.37	0.22	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 117C	CAFETERIA 117	18	2400	1200	2400	139.0	14.0	55	109	180	160	9.37	0.22	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 117D	CAFETERIA 117	18	2400	1200	2400	139.0	14.0	55	109	180	160	9.37	0.22	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 117E	CAFETERIA 117	18	2400	1200	2400	139.0	14.0	55	109	180	160	9.37	0.22	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 121A	CORRIDOR 121S	10	625	300	625	34.0	3.5	55	94	180	160	1.86	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 121B	CORRIDOR 121S	10	875	425	875	42.0	4.3	55	94	180	160	3.18	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 121C	CORRIDOR 121S	18	1975	975	1975	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 121D	CORRIDOR 121S	10	625	300	625	34.0	3.5	55	94	180	160	1.86	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 124	KITCHENETTE 124	6	150	75	150	8.0	0.9	55	94	180	160	0.38	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 131	STORAGE 151	10	1075	525	1075	47.0	4.8	55	91	180	160	3.91	0.05	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 136A	CORRIDOR 113	10	375	150	375	17.0	1.7	55	94	180	160	2.11	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 136B	CORRIDOR 113	6	500	250	250	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 140	1-2 STORAGE 141	6	100	50	100	8.0	0.9	55	94	180	160	0.38	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 143	1ST GRADE 143	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 144	1ST GRADE 144	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 145	1ST GRADE 145	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 146	1ST GRADE 146	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 147	2ND GRADE 147	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 148	2ND GRADE 148	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 149	2ND GRADE 149	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 150	2ND GRADE 150	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 151	STORAGE 151	10	350	175	350	17.0	1.7	55	94	180	160	2.11	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 152	LEARNING STAIR 152	10	775	375	775	34.0	3.5	55	94	180	160	1.86	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 153A	DISCOVERY SPACE 153	6	900	450	900	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 153B	DISCOVERY SPACE 153	6	900	450	900	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 154	SENSORY 154	6	100	50	100	8.0	0.9	55	94	180	160	0.38	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 203	PASSAGE 203	6	200	100	100	8.0	0.9	55	94	180	160	0.38	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 207	4TH GRADE STORAGE 207	10	300	150	300	12.0	1.2	55	91	180	160	0.79	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 210	COLLAB - PORCH 210	8	550	275	550	25.0	2.6	55	93	180	160	5.70	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 211	SPED RESOURCE 211	6	500	250	500	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 212	SPED RESOURCE 212	6	500	250	500	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 213	SLP 213	6	500	250	500	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 217	INTERVENTION 217	6	500	250	500	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 218	COLLAB - PORCH 218	10	850	475	850	42.0	4.3	55	94	180	160	3.18	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 219	INTERVENTION 219	6	500	250	500	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 221	INSTRUCTIONAL COACH 221	6	500	250	500	22.0	2.3	55	96	180	160	4.62	0.03	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 222	3-4 GRADE STORAGE 222	10	225	100	225	12.0	1.2	55	91	180	160	0.79	0.04	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 224	3RD GRADE 224	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 225	3RD GRADE 225	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 226	3RD GRADE 226	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 227	3RD GRADE 227	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 228	4TH GRADE 228	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 229	4TH GRADE 229	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 230	4TH GRADE 230	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 231	4TH GRADE 231	18	2000	1000	2000	124.0	12.4	55	112	180	159	7.37	0.16	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 232A	MEDIA CENTER 232	12	1350	675	1350	90.0	8.8	55	95	180	159	3.32	0.13	DDC	JOHNSON CONTROLS	TSS	ALL
VAV 232B	MEDIA CENTER 232	12	1300	650	1300	90.0	8.8	55	95	180	159	3.32	0.13	DDC	JOHNSON CONTROLS	TSS	ALL

REMARKS:
1. PROVIDE SHUT OFF VALVE AND CONTROL VALVE AT PIPING CONNECTIONS.
2. 3-WAY CONTROL VALVES TO BE WIRED AND CONNECTED PER MANUFACTURERS RECOMMENDATIONS.
3. CONTROL VALVES ON RETURN SIDE OF BOX.
4. COORDINATE WHICH SIDE PIPE CONNECTIONS IS ON.
5. CONTROL VALVE TO RECEIVE POWER FROM A 24V DC TRANSFORMER.
6. CONTROL VALVE TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
7. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND MAINTAIN MANUFACTURE'S CLEARANCE.

IMC 2021 VENTILATION SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR AREA (SF)	SPACE CLASSIFICAITON	DEFAULT OCCUPANCY (#/1000 SF)	PEOPLE	IMC 2021 REQUIREMENTS				ACTUAL			EQUIPMENT	
						OA (CFM/PERSON)	OA (CFM/SF)	OA (CFM)	EA (CFM)	SUPPLY (CFM)	OA (CFM)	EXHAUST (CFM)	SUPPLY FAN	EXHAUST FAN
100	VESTIBULE	178 SF	VESTIBULE	0	0	0	0.00	0	0	0 CFM	0	0 CFM	CUH 100E,F	-
100A	VES

CONTROL VALVE SCHEDULE

TAG	VALVE SIZE	FAIL POSITION	VOLTAGE	DESIGN PRESSURE RANGE (PSI)	DESIGN FLOW (GPM)	MANUFACTURER	MODEL NO.	REMARKS
CV 001A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.6 GPM	BELIMO	B325HT	ALL
CV 001B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.3 GPM	BELIMO	B325HT	ALL
CV 100B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 100C	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 100D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 100E	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 100F	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 101	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.7 GPM	BELIMO	B325HT	ALL
CV 101A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.7 GPM	BELIMO	B325HT	ALL
CV 102	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.9 GPM	BELIMO	B325HT	ALL
CV 104	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.7 GPM	BELIMO	B325HT	ALL
CV 105	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.9 GPM	BELIMO	B325HT	ALL
CV 108	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.2 GPM	BELIMO	B325HT	ALL
CV 109	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.2 GPM	BELIMO	B325HT	ALL
CV 110	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.9 GPM	BELIMO	B325HT	ALL
CV 113A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	10.1 GPM	BELIMO	B325HT	ALL
CV 113A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.4 GPM	BELIMO	B325HT	ALL
CV 113B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	8.8 GPM	BELIMO	B325HT	ALL
CV 113B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.0 GPM	BELIMO	B325HT	ALL
CV 113C	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	10.1 GPM	BELIMO	B325HT	ALL
CV 113C	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.1 GPM	BELIMO	B325HT	ALL
CV 113D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.5 GPM	BELIMO	B325HT	ALL
CV 113D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.8 GPM	BELIMO	B325HT	ALL
CV 113E	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.7 GPM	BELIMO	B325HT	ALL
CV 113E	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.8 GPM	BELIMO	B325HT	ALL
CV 113F	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.2 GPM	BELIMO	B325HT	ALL
CV 115	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	10.1 GPM	BELIMO	B325HT	ALL
CV 116	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.8 GPM	BELIMO	B325HT	ALL
CV 117A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	14.0 GPM	BELIMO	B325HT	ALL
CV 117B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	14.0 GPM	BELIMO	B325HT	ALL
CV 117C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	14.0 GPM	BELIMO	B325HT	ALL
CV 117D	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	14.0 GPM	BELIMO	B325HT	ALL
CV 117E	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	14.0 GPM	BELIMO	B325HT	ALL
CV 121A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.5 GPM	BELIMO	B325HT	ALL
CV 121B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 121C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 121D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.5 GPM	BELIMO	B325HT	ALL
CV 122A	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 122B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 122C	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 122D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 123C	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 124	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.9 GPM	BELIMO	B325HT	ALL
CV 125A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.3 GPM	BELIMO	B325HT	ALL
CV 125B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.8 GPM	BELIMO	B325HT	ALL
CV 125C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.5 GPM	BELIMO	B325HT	ALL
CV 125D	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.5 GPM	BELIMO	B325HT	ALL
CV 126A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.5 GPM	BELIMO	B325HT	ALL
CV 126B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.0 GPM	BELIMO	B325HT	ALL
CV 127A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.5 GPM	BELIMO	B325HT	ALL
CV 127B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.0 GPM	BELIMO	B325HT	ALL
CV 128A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 128B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.8 GPM	BELIMO	B325HT	ALL
CV 128C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 128D	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 128E	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 130A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	10.8 GPM	BELIMO	B325HT	ALL
CV 130B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.2 GPM	BELIMO	B325HT	ALL
CV 130C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	8.3 GPM	BELIMO	B325HT	ALL
CV 130D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.9 GPM	BELIMO	B325HT	ALL
CV 130E	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 131	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.8 GPM	BELIMO	B325HT	ALL
CV 132A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 132A	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 132B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.0 GPM	BELIMO	B325HT	ALL
CV 132B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 132C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 132D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 132D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 132E	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 133A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 133B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 134A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 134B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.6 GPM	BELIMO	B325HT	ALL
CV 134C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 134D	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 134E	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 135A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 135B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 136A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 136B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 137A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 137B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 138A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 138B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.9 GPM	BELIMO	B325HT	ALL
CV 138B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	5.3 GPM	BELIMO	B325HT	ALL
CV 138C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	9.9 GPM	BELIMO	B325HT	ALL
CV 138D	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	5.3 GPM	BELIMO	B325HT	ALL
CV 139A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 139A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 140	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 141A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 141B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 143	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 144	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 145	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 146	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 147	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 148	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 149	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 150	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 151	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.7 GPM	BELIMO	B325HT	ALL
CV 152	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.5 GPM	BELIMO	B325HT	ALL
CV 153A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 153B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 154	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.9 GPM	BELIMO	B325HT	ALL
CV 201A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.5 GPM	BELIMO	B325HT	ALL
CV 201B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.5 GPM	BELIMO	B325HT	ALL
CV 201C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.7 GPM	BELIMO	B325HT	ALL
CV 201D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.7 GPM	BELIMO	B325HT	ALL
CV 202A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 202B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.3 GPM	BELIMO	B325HT	ALL
CV 202C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	6.0 GPM	BELIMO	B325HT	ALL
CV 202D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.5 GPM	BELIMO	B325HT	ALL
CV 202E	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.5 GPM	BELIMO	B325HT	ALL
CV 202F	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 203	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.9 GPM	BELIMO	B325HT	ALL
CV 204A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 204B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.0 GPM	BELIMO	B325HT	ALL
CV 204C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 204D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 205B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 206A	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 206B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 206C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 206D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 207	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.2 GPM	BELIMO	B325HT	ALL
CV 210	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.6 GPM	BELIMO	B325HT	ALL
CV 211	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.3 GPM	BELIMO	B325HT	ALL
CV 212	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.3 GPM	BELIMO	B325HT	ALL
CV 213	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.3 GPM	BELIMO	B325HT	ALL
CV 214A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 214B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 214C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 214D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 215B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 216A	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 216B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 216C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 216D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 217	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.3 GPM	BELIMO	B325HT	ALL
CV 218	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 219	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.3 GPM	BELIMO	B325HT	ALL
CV 220A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 220B	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.4 GPM	BELIMO	B325HT	ALL
CV 220C	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	7.6 GPM	BELIMO	B325HT	ALL
CV 220D	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 220E	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.4 GPM	BELIMO	B325HT	ALL
CV 221	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	2.3 GPM	BELIMO	B325HT	ALL
CV 222	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.2 GPM	BELIMO	B325HT	ALL
CV 223A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.6 GPM	BELIMO	B325HT	ALL
CV 223B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.6 GPM	BELIMO	B325HT	ALL
CV 223C	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.6 GPM	BELIMO	B325HT	ALL
CV 223D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	1.6 GPM	BELIMO	B325HT	ALL
CV 224	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 225	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 226	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 227	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 228	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 229	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 230	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 231	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	12.4 GPM	BELIMO	B325HT	ALL
CV 232A	1"ø-1"ø	FAIL IN LAST POSITION (F.I.P)	120	235	4.3 GPM	BELIMO	B325HT	ALL
CV 232B	1 1/4"ø-1 1/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	11.5 GPM	BELIMO	B325HT	ALL
CV 235A	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.4 GPM	BELIMO	B325HT	ALL
CV 235B	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.4 GPM	BELIMO	B325HT	ALL
CV 235C	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.4 GPM	BELIMO	B325HT	ALL
CV 235D	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	3.4 GPM	BELIMO	B325HT	ALL
CV S100	3/4"ø-3/4"ø	FAIL IN LAST POSITION (F.I.P)	120	235	0.6 GPM	BELIMO	B325HT	ALL

REMARKS:
1. 3-WAY CONTROL VALVES TO BE WIRED AND CONNECTED PER CONTROL DRAWINGS.
2. CONTROL VALVE TO BE ON SUPPLY SIDE OF COIL.
3. CONTROL VALVE TO RECEIVE CLEAN POWER FROM A 24V DC TRANSFORMER WITH POWER CONDITIONER.
4. CONTROL VALVE TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR AND INSTALLED BY THE PIPING CONTRACTOR.

MINI SPLIT INDOOR UNIT SCHEDULE

TAG	ASSOCIATED OUTDOOR UNIT	LOCATION	SUMMER		COOLING CAP.		FAN/MOTOR DATA		ELECTRICAL DATA			WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			DB°F	WB°F	GROSS (MBH)	SENSIBLE (MBH)	SUPPLY CFM	V	PH	HZ					
FC 111	CU 111	IDF 111	92	73	17.4	17.2	374	120	1	60	35		YORK	DHP18NW822S	ALL
FC 200A	CU 111	IDF 5200A	92	73	22	21.6	500	120	1	60	43		YORK	DHP24NWB22S	ALL

REMARKS:
1. MOUNT INDOOR UNIT 12" BELOW CEILING STRUCTURE WITH CEILING EXPOSED KIT MATCHING UNIT COLOR. PROVIDE WITH MOUNTING BRACKETS/SUPPORTS AS NEEDED.
2. PROVIDE LOW AMBIENT ACCESSORY ON AIR COOLED CONDENSER.
3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
4. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
5. PROVIDE LIQUID AND GAS SIDE PIPING PER MANUFACTURER'S RECOMMENDATIONS WITH 1/2" FOAM INSULATION.
6. LOW AMBIENT OPERATION TO -10 DEG F
7. INDOOR UNIT POWERED OFF OUTDOOR UNIT.
8. ROUTE CONDENSATE TO NEAREST SINK. SEE PLUMBING SHEETS FOR MORE DETAILS.
9. UNIT TO BE PROVIDED WITH FACTORY INLINE CONDENSATE PUMP. INSTALL PER MANUFACTURER'S RECOMMENDATION.

MINI SPLIT OUTDOOR UNIT SCHEDULE

TAG	LOCATION	NO. OF SECTIONS	REFRIGERANT DATA			COOLING DATA		ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			CHARGE (LBS)	TYPE	EER/IEER	OA (DB°F)	CAPACITY (MBH)	HP	V	PH	HZ				
CU 111	ROOF	1	42.4	R-454B	9.5/16.5	95	17.4	0.20	208	1	60	75	YORK	DHP18CSB22S	ALL
CU 200A	ROOF	1	52.9	R-454B	11.6/18.0	95	22	0.20	208	1	60	106.9	YORK	DHP24CSB22S	ALL

REMARKS:
1. PROVIDE LOW AMBIENT ACCESSORY ON AIR COOLED CONDENSER.
2. ELECTRICAL CONTRACTOR TO PROVIDE NEMA RATED DISCONNECT SWITCH.
3. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
4. PROVIDE LIQUID AND GAS SIDE PIPING PER MANUFACTURER'S RECOMMENDATIONS WITH 1/2" FOAM INSULATION.
5. LOW AMBIENT OPERATION TO -10 DEG F
6. INDOOR UNIT POWERED OFF OUTDOOR UNIT.
7. MOUNT OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTION. PROVIDE RAILS OR 24" CURB.

ELECTRIC HEATER SHCEDULE

TAG	LOCATION	MOUNTING TYPE	AIRFLOW (CFM)	HEATING CAPACITY (KW)	ELECTRICAL DATA					WEIGHT	MANUFACTURER	MODEL NO.	REMARKS
					MCA	MOCP	V	PH	HZ				
CUH-100A	VESTIBULE 100A	CEILING	300 CFM	2.0	19 A	0 A	208 V	1	60 Hz	37	QMARK	CDF5489E	ALL
UH-113C	STAIR T100	WALL	150 CFM	1.5	12 A	15 A	120 V	1	60 Hz	25	QMARK	AWH315F	ALL

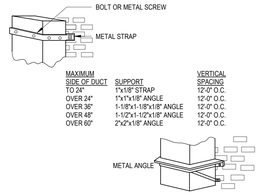
REMARKS:
1. UNIT TO BE RECESSED IN WALL.
2. UNIT TO BE RECESSED IN CEILING.
3. UNIT TO BE PROVIDED WITH INTERNAL THERMOSTAT.
4. COLOR TO BE DETERMINED AND APPROVED BY AOR.
5. UNIT TO BE PROVIDED WITH FACTORY INSTALLED DISCONNECT SWITCH.

KITCHEN EXHAUST FAN SCHEDULE

TAG	TYPE	SERVICE	CFM	ESP (IN W.C.)	HP	MOTOR DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
						RPM	V	PH	HZ				
KEF-118	EXHAUST FAN	KITCHEN 118	1502	0.40	0.17	995	480	3	60	108	CAPTIVEAIRE	DUBSHFA	ALL

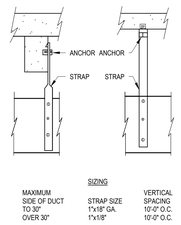
REMARKS:
1. PROVIDE FAN WITH MOTOR STARTER, DISCONNECT SWITCH AND BIRDSCREEN.
2. EXHAUST FAN TO BE TIED INTO BAS SYSTEM FOR MONITORING.
3. MECHANICAL CONTRACTOR TO PROVIDE MOTOR STARTER.
4. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
5. PROVIDE BIRD SCREEN AT DUCT RISER TO EXHAUST FAN ON ROOF.
6. EXHAUST FAN IS TIED TO KITCHEN HOOD HD 118 TEMPERATURE SENSOR, EXHAUST FAN TURNS ON.
7. SEE CAPTIVEAIRE DRAWINGS FOR MORE INFORMATION. SEE SPECIFICATION 23 09 00 FOR MORE INFORMATION.

GR



1 M-602 DUCT SUPPORT DETAIL

SCALE: N.T.S.



2 M-602 DUCT SUPPORT DETAIL

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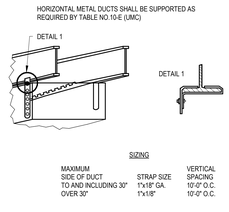

3 M-602 DUCT SUPPORT DETAIL

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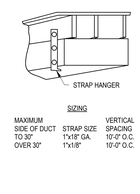
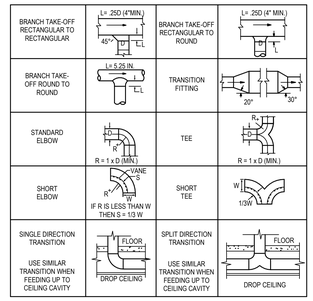


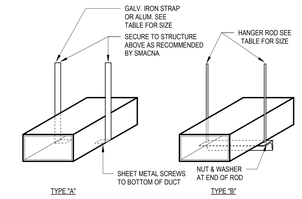
4 M-602 DUCT SUPPORT DETAIL

SCALE: N.T.S.



5 M-602 TYPICAL DUCT TAKE-OFFS DETAIL

SCALE: N.T.S.

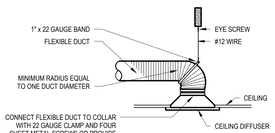


DUCT HANGER SCHEDULE					
DUCT SIZE (INCH)	TYPE OF HANGER	HANGER SPACING (FT)	STRAP SIZE	ROD SIZE (INCH)	ANGLE FOR BRACING
UP TO 12	A	8'-0"	1"x16GA	N.A.	N.A.
13 TO 18	A	8'-0"	1"x16GA	N.A.	N.A.
19 TO 30	A/B	8'-0"	1"x16GA	1/4"	1-1/2"x1-1/2"x1/8"
31 TO 42	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
43 TO 54	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
55 TO 60	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
61 TO 84	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x3/16"
85 TO 96	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x3/16"
OVER 96	B	8'-0"		3/8"	2"x2"x1/4"

NOTES:
1. FOR SEVERAL DUCTS ON ONE HANGER, TYPE "B" MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX WIDTH OF DUCT SCHEDULE.
2. ON TYPE "A" HANGER, PROVIDE 3 HANGERS AT EACH TAKE-OFF OR BRANCH.

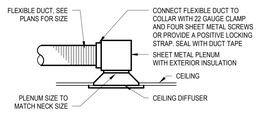
6 M-602 DUCT SUPPORT DETAIL

SCALE: N.T.S.



NOTE:
NORMALLY USED WHEN FULL RADIUS ELBOW IN FLEX DUCT CAN BE ACHIEVED.

DIFFUSER DETAIL - OPTION #1

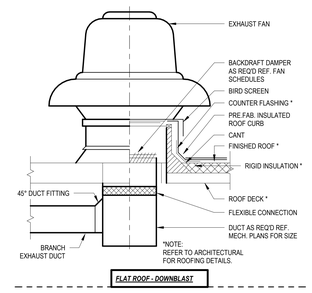


NOTE:
USED WHEN NORMAL RADIUS ELBOW CAN'T BE ATTACHED AS SHOWN IN OPTION #1.

DIFFUSER DETAIL - OPTION #2

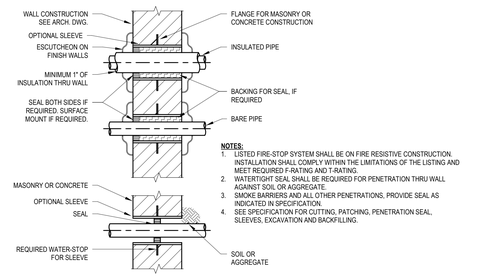
7 M-602 TYPICAL DIFFUSER AND GRILLE CONNECTIONS

SCALE: N.T.S.



8 M-602 EXHAUST FAN DETAIL

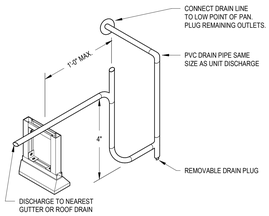
SCALE: N.T.S.



NOTES:
1. LISTED FIRE-STOP SYSTEM SHALL BE ON FIRE RESISTIVE CONSTRUCTION. INSTALLATION SHALL COMPLY WITHIN THE LIMITATIONS OF THE LISTING AND MEET REQUIRED F-RATING AND T-RATING.
2. WATERTIGHT SEAL SHALL BE REQUIRED FOR PENETRATION THRU WALL AGAINST SOIL OR AGGREGATE.
3. SMOKE BARRIERS AND ALL OTHER PENETRATIONS, PROVIDE SEAL AS INDICATED IN SPECIFICATION.
4. SEE SPECIFICATION FOR CUTTING, PATCHING, PENETRATION SEAL, SLEEVES, EXCAVATION AND BACKFILLING.

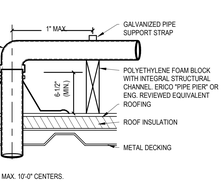
9 M-602 PIPING PENETRATION THRU WALL DETAIL

SCALE: N.T.S.



10 M-602 CONDENSATE DRAIN FROM RTU

SCALE: N.T.S.



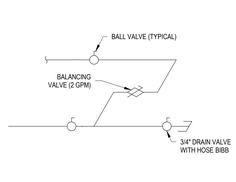
11 M-602 GAS CONNECTOR DETAIL

SCALE: N.T.S.

NOTE:
PROVIDE PIPE SUPPORTS ON MAX. 10'-0" CENTERS.

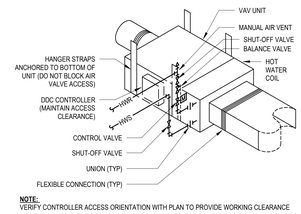
12 M-602 GAS PIPE THRU ROOF DETAIL

SCALE: N.T.S.



13 M-602 END OF PIPING MAIN DETAIL

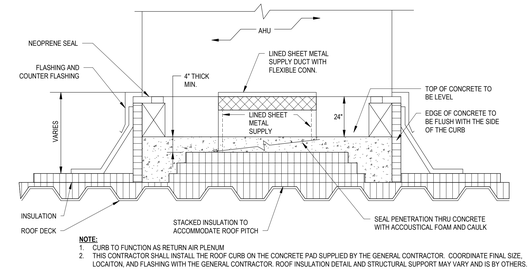
SCALE: N.T.S.



NOTE:
VERIFY CONTROLLER ACCESS ORIENTATION WITH PLAN TO PROVIDE WORKING CLEARANCE

14 M-602 VAV UNIT WITH HOT WATER COIL

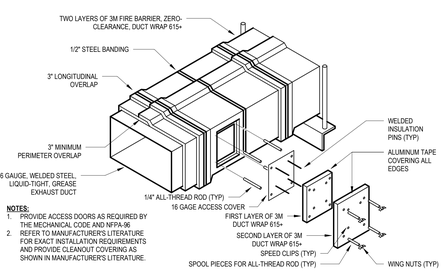
SCALE: N.T.S.



NOTE:
1. CURB TO FUNCTION AS RETURN AIR PLENUM
2. THIS CONTRACTOR SHALL INSTALL THE ROOF CURB ON THE CONCRETE PAD SUPPLIED BY THE GENERAL CONTRACTOR. COORDINATE FINAL SIZE, LOCATION, AND FLASHING WITH THE GENERAL CONTRACTOR. ROOF INSULATION DETAIL AND STRUCTURAL SUPPORT MAY VARY AND IS BY OTHERS.

15 M-602 AHU CURB DETAIL

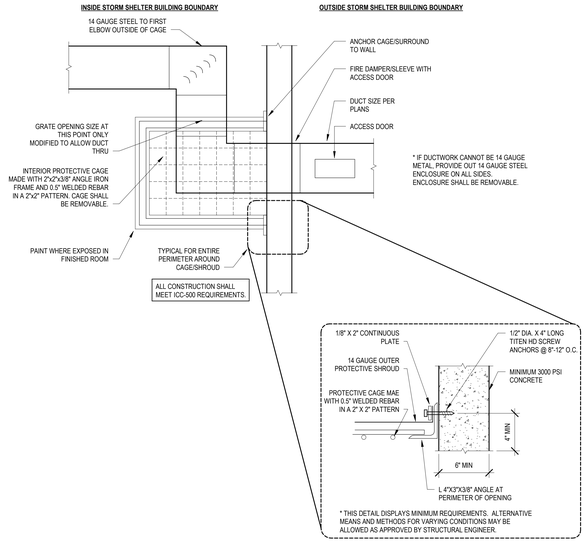
SCALE: N.T.S.



NOTES:
1. PROVIDE ACCESS DOORS AS REQUIRED BY THE MECHANICAL CODE AND NFPA-96.
2. REFER TO MANUFACTURER'S LITERATURE FOR EXACT INSTALLATION REQUIREMENTS AND PROVIDE CLEANOUT COVERING AS SHOWN IN MANUFACTURER'S LITERATURE.

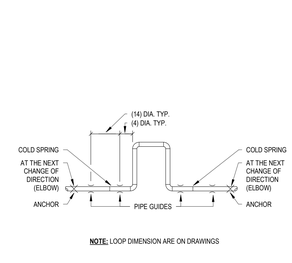
19 M-602 KITCHEN GREASE DUCT ACCESS DOOR DETAIL

SCALE: N.T.S.



18 M-602 FEMA DUCT PROTECTION DETAIL

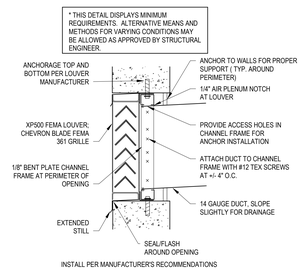
SCALE: N.T.S.



NOTE: LOOP DIMENSION ARE ON DRAWINGS

17 M-602 PIPING EXPANSION LOOP DETAIL

SCALE: N.T.S.



INSTALL PER MANUFACTURER'S RECOMMENDATIONS

16 M-602 FEMA LOUVER DETAIL

SCALE: N.T.S.

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SIGNATURE

DATE

REVISIONS

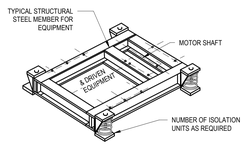
NO.	DESCRIPTION	DATE

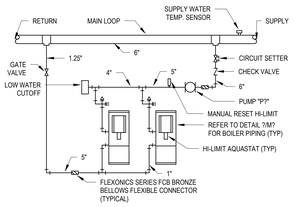
PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/2025
DRAWN BY	BMA
REVIEWED BY	RK

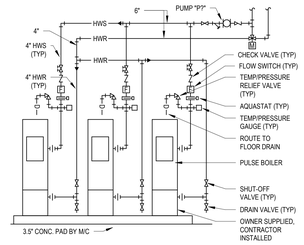
MECHANICAL DETAILS

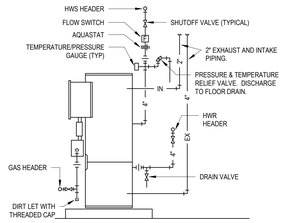
M-602

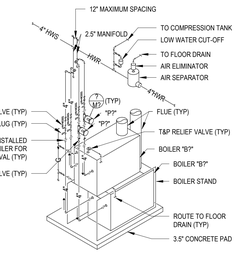
BIDDING

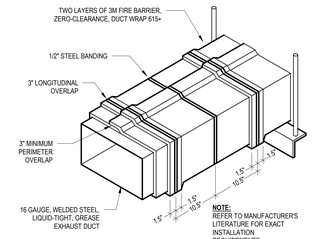








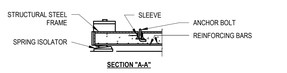


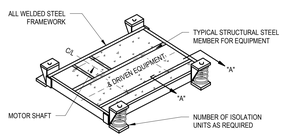


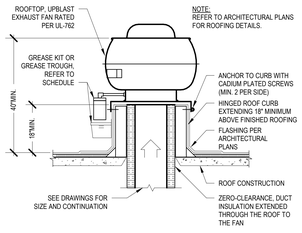
3 M-603 PULSE BOILER PIPING SCHEMATIC
SCALE: N.T.S.

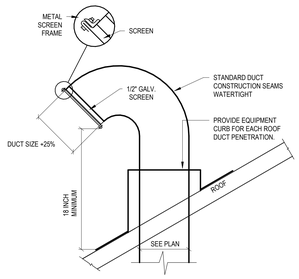
2 M-603 BOILER PIPING DETAIL
SCALE: N.T.S.

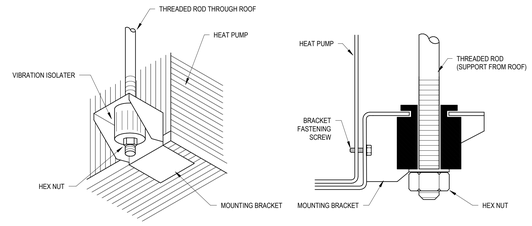
1 M-603 KITCHEN GREASE DUCT WRAP
SCALE: N.T.S.

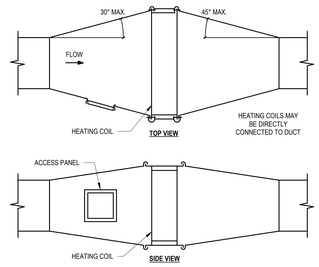












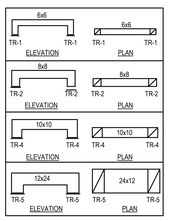
4 M-603 INERTIA BASE DETAIL
SCALE: N.T.S.

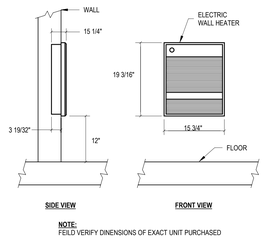
8 M-603 KITCHEN HOOD EXHAUST FAN
SCALE: N.T.S.

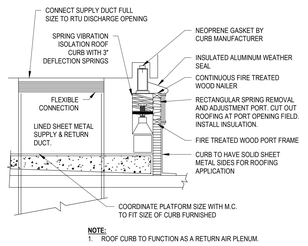
7 M-603 GOOSENECK DETAIL
SCALE: N.T.S.

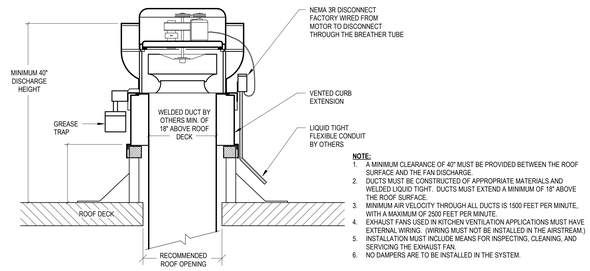
6 M-603 HANGAR & VIBRATION ISOLATION DETAIL
SCALE: N.T.S.

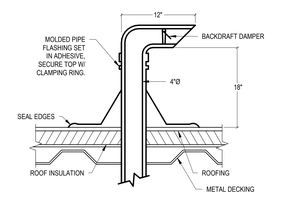
5 M-603 REHEAT COIL CONNECTIONS DETAIL
SCALE: N.T.S.











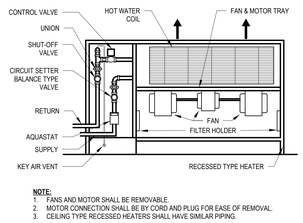
13 M-603 ROOM TRANSFER DUCT DETAIL
SCALE: N.T.S.

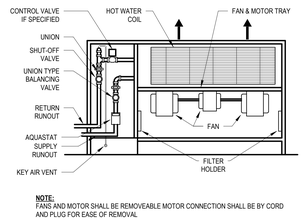
12 M-603 ELECTRIC WALL HEATER (RECESSED)
SCALE: N.T.S.

11 M-603 ROOFTOP VIBRATION ISOLATION CURB DETAIL
SCALE: N.T.S.

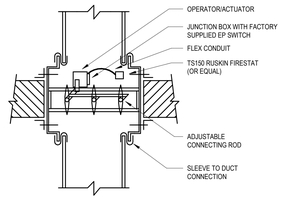
10 M-603 KITCHEN HOOD EXHAUST FAN DETAIL
SCALE: N.T.S.

9 M-603 DRYER VENT THRU ROOD DETAIL
SCALE: N.T.S.





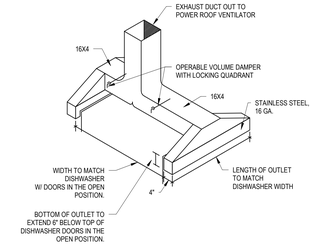
16 M-603 CABINET UNIT HEATER HOT WATER PIPING
SCALE: N.T.S.



ANGLE IRON AND FASTENER DIMENSIONS		
LENGTH	MIN. ANGLE SIZE	FASTENER LOCATION
0 - 48"	1-/2" x 1-1/2" x 1/8"	8" ON CENTER
49 - 96"	2" x 2" x 1/8"	6" ON CENTER
OVER 96"	2-1/2" x 2-1/2" x 3/16"	6" ON CENTER

FLOOR	
DUCT DIMENSION (IN DIA.OR EITHER RECT. DIM.)	MIN. GAUGE
0 - 12"	26
13 - 30"	24
31 - 54"	22
55 -84"	20
85 - UP	18

15 M-603 COMBINATION DAMPER SMOKE AND FIRE DETAIL
SCALE: N.T.S.



14 M-603 DISHWASHER HOOD DETAIL
SCALE: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 224150.00
DATE OF ISSUE 10/22/2025
DRAWN BY BMA
REVIEWED BY RK

MECHANICAL DETAILS

M-603
BIDDING

GENERAL:

- ## — DRAWING KEYNOTE SYMBOL
- DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY
- DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT
- •X' - X" — MOUNTING HEIGHT DESIGNATION

RENOVATION LEGEND:

<X>	EXISTING TO REMAIN
<XR>	EXISTING TO BE RELOCATED
<XD>	EXISTING TO BE REMOVED
<XN>	EXISTING TO BE RELOCATED IN NEW LOCATION
<XP>	NEW EQUIPMENT TO REPLACE EXISTING EQUIPMENT IN PLACE
<N>	NEW

ELECTRICAL ABBREVIATIONS:

A	AMPS
A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AC	ABOVE COUNTER
ACP	ACCESS CONTROL PANEL
ACPS	ACCESS CONTROL POWER SUPPLY
ACS	ACCESS CONTROL SYSTEM
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
ALT	ALTERNATE
ALT SW	ALTERNATOR SWITCH
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO-VISUAL
BC	BELOW COUNTER
BFG	BELOW FINAL GRADE
BKR	BREAKER
BLDG	BUILDING
BOL	BUILT IN OVERLOAD
BPC	BOLTED PRESSURE CONTACT SWITCH
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CP	CONTROL PANEL
CS	COMBINATION STARTER
CT	CURRENT TRANSFORMER
CTRL	CONTROLLER
DE	DUAL ELEMENT FUSES
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EOL	END OF LINE RESISTOR
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
F	FUSE
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAC	FIRE ALARM CABINET
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FDR	FEEDER
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FLOW SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GYP	GYPSUM BOARD
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ICP	INTERCOM CONTROL PANEL
ICPS	INTERCOM POWER SUPPLY
ID	INDIRECT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IL	INTERLOCK
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
IU	IN UNIT
J-BOX	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAG	MAGNETIC STARTER
MAN	MANUAL STARTER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURERR
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
NIC	NOT IN CONTRACT
NU	NEAR UNIT
OU	ON UNIT
P	POLE
PB	PUSH BUTTON
PC	PHOTO CONTROL
PCP	PAGING CONTROL PANEL
PCPS	PAGING CONTROL POWER SUPPLY
PE SW	PNEUMATIC SWITCH
PEND	PENDANT
PLBG	PLUMBING CONTRACTOR
PNL	PANEL
R	RELAY
REC	RECESS
RECEPT	RECEPTACLE
RM	ROOM
RVS	REDUCED VOLTAGE STARTING
S	SPLINE
SDB	SUB-DISTRIBUTION BOARD
SEL SW	SELECTOR SWITCH
SP SW	SPEED SWITCH
SURF	SURFACE
SW	SWITCH
T-STAT	THERMOSTAT
TC	TIME CLOCK
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNIV	UNIVERSAL
USS	UNIT SUBSTATION
VS	VIDEO SURVEILLANCE
WP	WEATHERPROOF
XFMR	TRANSFORMER

SYMBOL LIST NOTE:

MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO BE MEASURED FROM FLOOR TO CENTERLINE OF DEVICE. DEVICES EXTENDING GREATER THAN 4" FROM THE WALL SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 80" AFF TO BOTTOM OF DEVICE.

PANELS:

- XXX' XXX' — ELECTRICAL PANEL - SURFACE / RECESSED

EQUIPMENT CABINETS:

- WITHOUT DOOR - SURFACE / RECESSED
- WITH DOOR - SURFACE / RECESSED
- XXX' XXX' — DENOTES THE FOLLOWING (FAAP) FIRE ALARM ANNUNCIATOR PANEL (FACP) FIRE ALARM CONTROL PANEL (GAP) GENERATOR ANNUNCIATOR PANEL (LCP) LIGHTING CONTROL PANEL

POWER:

- SIMPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
- X XXX — DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
  - XXX DENOTES THE RECEPTACLE TYPE OR EQUIPMENT SERVED (TYPICAL TO ALL OTHER RECEPTACLES) (USB) INCLUDING (2) USB-C OUTLETS (WP) WEATHERPROOF WITH GFI RECEPTACLE
  - X DENOTES CIRCUIT NUMBER (TYPICAL TO ALL OTHER RECEPTACLES)
- DUPLEX RECEPTACLE - ISOLATED GROUND - MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - GFCI - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT
- DUPLEX RECEPTACLE - SWITCHED TOP HALF - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT
- DUPLEX RECEPTACLE - SWITCHED TOP HALF - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT
- DUPLEX RECEPTACLE - CEILING MOUNTED
- DUPLEX RECEPTACLE - FURNITURE MOUNT
- NON NEMA 5-20R RECEPTACLE
- QUADRUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
- QUADRUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
- QUADRUPLEX RECEPTACLE - SWITCHED TOP HALF - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
- QUADRUPLEX RECEPTACLE - ISOLATED GROUND
- FLOOR MOUNTED ELECTRICAL BOX
- FLOOR MOUNTED ELECTRICAL BOX - SWITCHED HALF
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER
- T-XX — METER SOCKET
- T-XX — TRANSFORMER, WALL / FLOOR MOUNTED
- T-XX — INDICATES TRANSFORMER MOUNTED ON EQUIPMENT PAD
- JUNCTION BOX
- PULL BOX
- XXX — PUSHBUTTON SWITCH - MOUNT AT 44" AFF UNLESS NOTED OTHERWISE
  - XXX DENOTES THE FOLLOWING (EPO) EMERGENCY - POWER OFF STATION
- GROUND ROD
- X MARK / X NUMBER — EQUIPMENT TAG
- MOTOR CONNECTION

TECHNOLOGY:

- #D — # DENOTES QUANTITY, D DENOTES DEVICE TYPE
- TO — TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 4" ABOVE COUNTER/COUNTER BACKSPLASH WHERE PRESENT.
- TO — TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 18" AFF UNLESS NOTED OTHERWISE.
- PH — PHONE OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 44" AFF UNLESS NOTED OTHERWISE.
- FLOOR MOUNTED DATA BOX
- CEILING MOUNTED DATA BOX
- WAP WAP — WIRELESS ACCESS POINT (2 DATA DROPS AT EACH WAP LOCATION)
- FREE STANDING OPEN FRAME DATA CABINET. (HEAVY LINE INDICATES FRONT OF CABINET)
- GROUND BUS BAR

SECURITY:

- XX XX — DOOR HARDWARE INSTALLATION - CEILING / WALL (SEE DETAILS, ARCHITECTURAL PLANS AND SPECIFICATIONS)
  - XX DENOTES THE FOLLOWING (AA) AUTODOOR ACTUATOR (PUSH PLATE) (AO) AUTODOOR OPERATOR
- XX XX — SECURITY, ACCESS CONTROL AND DOOR MOUNTING - CEILING / WALL
  - XX DENOTES THE FOLLOWING (CR) CARD READER (DC) DOOR CONTACT (DR) DOOR RELEASE - PUSHBUTTON (EL) ELECTROMAGNETIC LOCK (ES) ELECTRIC STRIKE (KP) KEYPAD - SECURITY SYSTEM (RP) REQUEST FOR EXIT - PUSH BUTTON (VI) VIDEO INTERCOM
- SECURITY CAMERA - CEILING / WALL

SYSTEMS:

- PAGING AND SOUND SYSTEM - CEILING / WALL
- CLOCK SYSTEM - CEILING / WALL
- TELEVISION SYSTEM - CEILING / WALL

LIGHTING:

- NOTE: SHADING ANY OF THE LIGHTING FIXTURE INDICATES UNIT IS WIRED TO AN EMERGENCY OR NIGHT LIGHTING CIRCUIT.
- CEILING MOUNTED FIXTURE - SURFACE / RECESSED
- 1a A — FIXTURE DESIGNATION (SEE SCHEDULE)
  - SWITCH LEG. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH AND/OR OCCUPANCY SENSOR
  - CIRCUIT NUMBER
- STRIP LIGHT FIXTURE
- LINEAR WALL MOUNTED FIXTURE
- CEILING MOUNTED DOWNLIGHT FIXTURE - SURFACE / RECESSED
- POLE MOUNTED FIXTURE
- WALL MOUNTED FIXTURE - SURFACE / RECESSED
- EXIT LIGHT - WALL MOUNTED / CEILING MOUNTED PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN
- EMERGENCY BATTERY POWER SPOT ILLUMINATION UNIT - DUAL HEAD LIGHT - WALL MOUNT 12" BELOW CEILING UNLESS NOTED OTHERWISE.

SWITCHING DEVICES:

NOTE: ALL SWITCHING DEVICES SHALL BE MOUNTED AT 44" AFF, UNLESS OTHERWISE NOTED.

- X XX — SINGLE POLE TOGGLE SWITCH
  - XX DENOTES THE FOLLOWING (3W) 3 WAY (4W) 4 WAY (K) KEY OPERATED (OV) OVERRIDE
  - X DENOTES SWITCH DESIGNATION (LOWER CASE)
- DIMMER SWITCH
- DS DS — DAYLIGHT SENSOR.
- OS OS — OCCUPANCY SENSOR.
- VS VS — VACANCY SENSOR.
- L L — LOW VOLTAGE SWITCH STATION.
- PC PC — PHOTO-CONTROL.
- T T — TIME CLOCK.

NOTIFICATION DEVICES:

- W — COMBINATION HORN-STROBE - CEILING / WALL MOUNTED
- RTS — REMOTE ALARM INDICATING AND TEST SWITCH
- S — SPEAKER - CEILING / WALL MOUNTED
- W — STROBE - CEILING / WALL MOUNTED
- W — COMBINATION SPEAKER-STROBE - CEILING / WALL MOUNTED
- GONG

DETECTORS:

- SS — COMBINED SMOKE-GAS DETECTOR - CEILING MOUNTED
- H — COMBINED SMOKE-HEAT DETECTOR - CEILING MOUNTED
- S — DUCT SMOKE DETECTOR - RECTANGULAR/SQUARE
- XX — GAS DETECTOR
  - XX DENOTES THE FOLLOWING (CO) CARBON MONOXIDE
- HD — HEAT DETECTOR - CEILING MOUNTED
- SD — SMOKE DETECTOR
- WF — FLOW SWITCH
- KB — KNOX BOX
- P — MANUAL PULL STATION
- DOOR HOLD

GENERAL NOTES

1. THE CONTRACTOR PROPOSING TO PERFORM THE ELECTRICAL WORK SHALL VISIT THE JOB SITE AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT AFFECT THE WORK, OR COST THEREOF, AND EXAMINE THE DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING HIS BID.
2. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
3. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
4. THE EC SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO ENSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. THE EC SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL THE DATA IN SOME CASES, EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR.
5. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
6. COORDINATE WORK WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
7. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS.
8. CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. ALL CONDUITS SHALL RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY THE ARCHITECT.
9. FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
10. POWER AND DATA DEVICES SHALL BE SPACED NO MORE THAN 4" APART. PROVIDE JUNCTION BOX MOUNTING BRACKET BETWEEN STUDS AS NEEDED.
11. ALL RECEPTACLES SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE NEW UNLESS OTHERWISE NOTED.
12. DETERMINE, IN ADVANCE OF PURCHASE, THAT ALL ELECTRICAL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL FIT INTO THE ROOM OR SPACE ALLOCATED, AS INDICATED ON THE DRAWINGS, ALLOWING SUFFICIENT CLEARANCE FOR THE SAFE SERVICE AND/OR MAINTENANCE OF RELATED EQUIPMENT, INCLUDING THAT OF OTHER TRADES.
13. EC SHALL PROVIDE REQUIRED JUNCTION BOXES, CONDUIT AND BLANK COVERS FOR ALL NEW AND DATA LOCATIONS.
14. SECURITY CAMERAS SHALL BE PROVIDED BY SCHOOL DISTRICT. COORDINATE ALL CAMERA LOCATIONS WITH SCHOOL DISTRICT.
15. CONDUCTORS SUPPLYING CIRCUITS SHALL NOT BE LESS THAN #12 AWG COPPER FOR ANY CIRCUIT.
16. AT THE COMPLETION OF THE JOB, IT WILL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO TURN OVER TO THE BUILDING MANAGER AN AS-BUILT DRAWING IN REPRODUCIBLE FORM. THESE DRAWINGS DO NOT HAVE TO BE MADE FROM SCRATCH. THE ENGINEER'S REFLECTED CEILING AND ELECTRICAL/TELEPHONE PLANS MAY BE USED AS BACKGROUND WITH THE ACTUAL CIRCUITING CHANGES ADDED.
17. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL J-BOX AND 3/4"C FOR MECHANICAL THERMOSTAT + CONTROLS. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
18. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE 2020 NEC AND THE LATEST REQUIREMENTS OF ALL CODES AND REGULATIONS.
19. ALL EXTERIOR RECEPTACLES SHALL HAVE METAL WHILE IN USE COVERS.
20. EC SHALL UPSIZE WIRE AND CONDUIT AS REQUIRED FOR VOLTAGE DROP. NO ELECTRICAL CIRCUITS SHALL EXCEED A VOLTAGE DROP OF MORE THAN 5%.
21. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS A CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
22. ALL EXPOSED ELECTRICAL CONDUIT, CABLE, AND JUNCTION BOXES INSTALLED OPEN CEILING SHALL BE PAINTED. MC CABLE AND FLEXIBLE CONDUIT SHALL BE LIMITED IN EXPOSED OPEN CEILING LOCATIONS TO A 6'-0" MAXIMUM LENGTH FOR INDIVIDUAL WHIPS FOR EQUIPMENT CONNECTIONS. INSTALL ALL CONDUIT, CABLE, AND JUNCTION BOXES IN A NEAT AND CONSISTENT MANNER. COLOR SELECTIONS BY ARCHITECT.
23. TYPE MC CABLE SHALL BE INSTALLED FOR BRANCH CIRCUITS IN ONLY CONCEALED LOCAZTIONS WITHIN THE SPACE THAT THE LIGHTING, EQUIPMENT, AND/OR RECEPTACLE DEVICES IT SERVES ARE LOCATED, UNLESS NOTED OTHERWISE.
24. ALL LOW VOLTAGE CABLING SHALL BE PLENUM RATED WHEN INSTALLED IN MECHANICAL PLENUM RETURN SPACES.
25. CABLE TERMINATION JACKS AND CABLING TO BE COLOR-CODED PER SCHOOL DISCTRICT STANDARDS.
    - WAP: PURPLE CAT6A
    - DATA: BLUE CAT6
    - PHONE: GREEN CAT6
    - CCTV: BLACK CAT6

DEMOLITION GENERAL NOTES

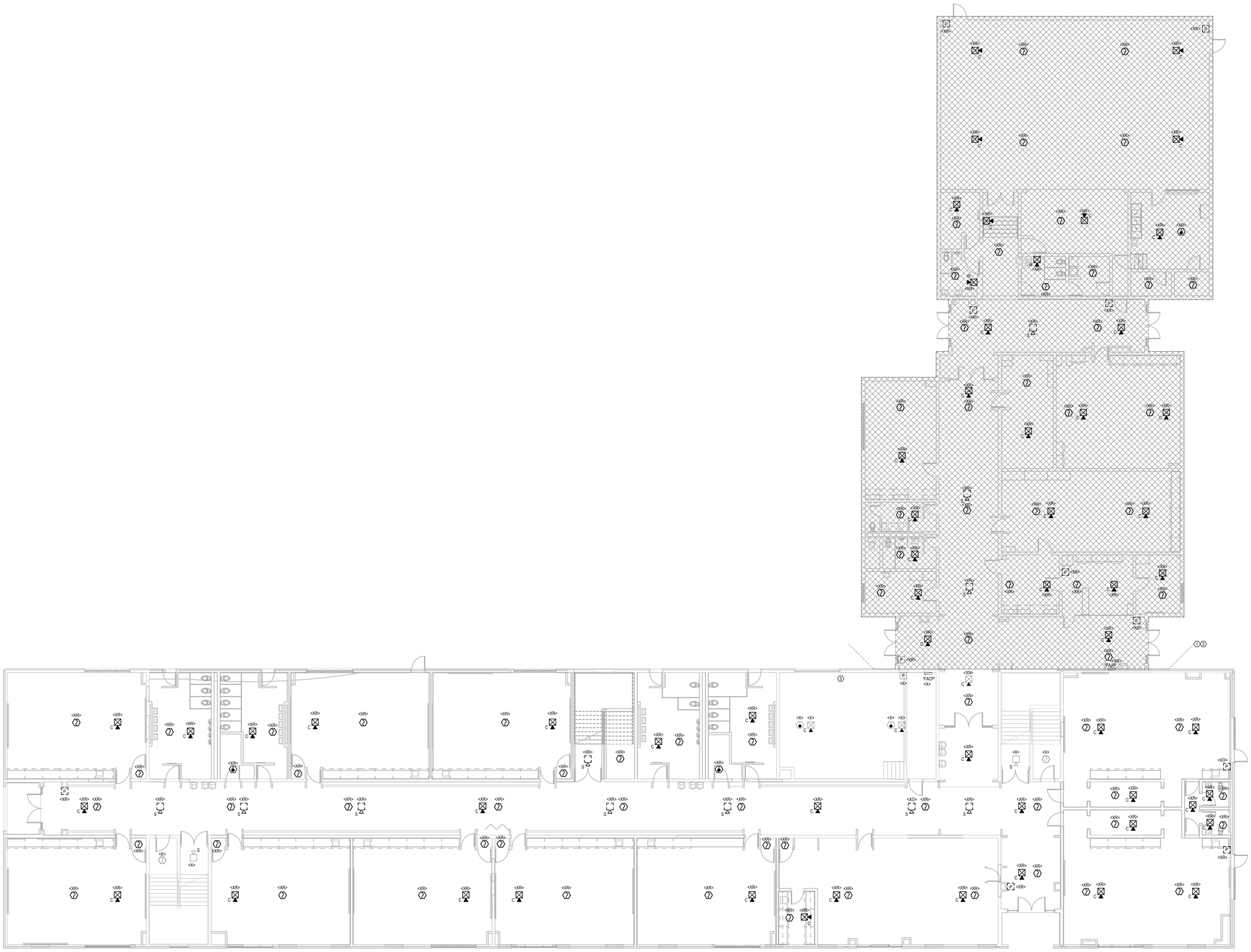
1. EACH CONTRACTOR SHALL REVIEW THE EXISTING SYSTEMS IN THE FIELD ALONG WITH BID DOCUMENTS & DETERMINE SELECTIVE DEMO & ADDITION OF TEMPORARY SYSTEMS (IF REQUIRED) TO MAKE PHASED DEMO & PROPOSED REMODELING. IT SHALL ASSURE UNINTERRUPTED SAFE OPERATION. OF AREAS THAT ARE AFFECTED BY DEMO & ADDITION OF PROPOSED SYSTEMS AT ALL TIMES. INCLUDE THE NECESSARY WORK TO ACCOMPLISH THIS & COORDINATE PHASING ACCORDINGLY.
2. CONFIRM WITH THE MANUFACTURERS OF EXISTING EQUIPMENT THAT IS TO BE REUSED OR EXTENDED THAT IT IS IN GOOD WORKING ORDER.
3. WHERE EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, REMOVE, REROUTE, RELOCATE, OR IN OTHER WAYS ALTER EXISTING WORK IN ORDER TO ACCOMMODATE.
4. WHERE EXISTING CONDUIT, WIRE, SUPPORTS, HANGERS & OTHER ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, THEY SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE DEMOLITION. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, WIRE SHALL BE PULLED OUT & THE CONDUIT SHALL BE PLUGGED AT EACH END.
5. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING WAP, CLOCKS, FIRE ALARM NOTIFICATION AND DETECTION DEVICES, SECURITY CAMERAS, AND SECURITY EQUIPMENT, LIGHT FIXTURES, SWITCHES, SPEAKERS, INTERCOM EQUIPMENT, CONTROLS, CONDUIT OUTLETS, FITTINGS, AND OTHER DEVICES REMOVED AS A RESULT OF THE ALTERATIONS SHALL REMAIN THE PROPERTY OF THE OWNER (UNLESS OTHERWISE INDICATED) AND SHALL BE REUSED WHERE INDICATED.
6. EXAMINE THE CONDITION OF ANY MATERIALS AND EQUIPMENT TO MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS TO THE ENGINEER WHO WILL IN TURN MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE FOR REUSED AND RELOCATED EQUIPMENT SHALL BE NEW.
7. IN ORDER TO COORDINATE THE WORK OF THE MECHANICAL AND ELECTRICAL TRADES, REMOVE EXISTING ELECTRICAL WORK IN AND ABOVE CEILING OF THESE AREAS (AS REQUIRED), AFTER WHICH, INSTALL NEW WORK AND REINSTALL EXISTING WORK TO REMAIN, AS SHOWN ON THE DRAWINGS. EXISTING MATERIALS AND EQUIPMENT SHALL BE REUSED ONLY WHERE INDICATED.
8. SOME EXCEPTIONS MAY ARISE WHEREIN EQUIPMENT, EITHER IN ALTERED AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE, REQUIRING THAT FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES, ETC. SERVING SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THOSE ELECTRICAL FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES, ETC. SHALL BE REROUTED & RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY WIRING SHALL BE PROVIDED, AFTER WHICH NEW WORK SHALL BE INSTALLED & TEMPORARY WIRING REMOVED.
9. ANY ELECTRICAL EQUIPMENT THAT IS TAGGED TO BE DISPOSED OF SHALL BE DONE PER APPROVED METHOD IN ACCORDANCE WITH THE CONSTRUCTION PLAN & LOCAL AUTHORITIES.
10. THIS DRAWING SHOWS A REPRESENTATIVE SAMPLE OF DEMOLITION WORK THAT IS TO TAKE PLACE. NOTE THAT NOT EVERY DEVICE AND CONDUIT ETC. REQUIRED TO BE DEMOLISHED IS NECESSARILY INDICATED ON THIS PLAN. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH THE EXTENT OF EXISTING WORK TO BE DEMOLISHED.
11. ALL PROPOSED DEMOLITION WORK SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER TRADES.
12. DISCONNECT & REMOVE ALL ELECTRICAL EQUIPMENT, DEVICES AND CONDUITS IN WALLS, FLOORS & CEILING SCHEDULED FOR DEMOLITION.
13. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS, FEEDERS AND BRANCH CIRCUITS PASSING THROUGH RENOVATED AREA AND SERVING UNDISTURBED AREAS.
14. ANY PORTION OF THE EXISTING CONDUIT SYSTEM THAT IS TO BE REUSED OF THE NEW INSTALLATION SHALL BE CHECKED TO ENSURE THAT IT IS CLEAN, FREE OF DAMAGE, FREE OF CORROSION AND ADEQUATELY SUPPORTED.
15. EXISTING ELECTRICAL SYSTEM IS DESCRIBED BASED ON SURVEYS OF EXISTING CONDITIONS THAT ARE VISIBLE DURING THE DESIGN PHASE. CONTRACTOR SHALL CONFIRM ALL SERVICES PRIOR TO PROCEEDING WITH DEMOLITION.
16. PATCH ALL HOLES IN SLABS, WALLS & CEILINGS WHERE ELECTRICAL DEVICES AND/OR CONDUIT ARE REMOVED. IF THE REMOVAL OF CONDUIT, BOXES, EQUIPMENT, ETC. COMPROMISES THE FIRE RATING OF THESE ITEMS, THE CONTRACTOR SHALL SEAL OPENINGS WITH CODE APPROVED FIRE STOPPING MATERIAL.
17. CONTRACTOR IS TO PERFORM DEMOLITION WORK IN A NEAT, SKILLFUL & CAREFUL MANNER SO AS NOT TO DAMAGE OR DEFACE EXISTING CONSTRUCTION THAT IS TO REMAIN.
18. WHERE FEEDERS OR BRANCH CIRCUITS ARE DISCONNECTED AND REMOVED FROM EXISTING PANEL BOARDS, CONTRACTOR SHALL MARK THE AFFECTED BREAKERS IN THOSE PANEL BOARDS AS "SPARE." INSTALL NEW KNOCK-OUT BLANK INSERT IN PANEL BOX.
19. VERIFY THAT REMOVAL OF DEVICES IN MODIFIED AREA DOES NOT AFFECT DEVICES IN OTHER AREAS THAT MAY BE FED FROM THE CIRCUIT BEING DISCONNECTED.
20. PROVIDE ADDITIONAL CABLE AND/OR CONDUIT AND WIRE AS REQUIRED FOR EXISTING TO REMAIN DEVICES TO REMAIN FULLY OPERATIONAL AFFECTED BY DEVICES SCHEDULED TO BE REMOVED AND/OR RELOCATED. NEW CONDUIT AND WIRE CHARACTERISTICS SHALL MATCH EXISTING.

FIRE ALARM GENERAL NOTES

1. EXTEND EXISTING FIRE ALARM SYSTEM WITH EMERGENCY VOICE NOTIFICATION PER THE IFC 2015.
2. FIRE ALARM SHALL BE DESIGN-BUILD BY CONTRACTOR. DEVICES ARE SHOWN FOR REFERENCE ONLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY ADDITIONAL REQUIREMENTS WITH THE FIRE MARSHALL AND ADJUST LAYOUT AS NECESSARY.
3. THE FOLLOWING FIRE ALARM DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE & OPERATIONAL FIRE ALARM SYSTEM THAT MEETS LOCAL CODE. PROVIDE DEVICES AS REQUIRED TO MEET LOCAL MINIMUM REQUIREMENTS & NFPA FIRE CODE.
4. CONTRACTOR IS RESPONSIBLE FOR TESTING THE SYSTEM TO CREATE A UL-LISTED, CODE-COMPLIANT FIRE ALARM SYSTEM AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
5. ALL FIRE ALARM PANELS SHALL BE AN APPROVED ADDRESSABLE TYPE.
6. A MAP INDICATING THE LOCATION OF ALL FIRE ALARM DEVICES SHALL BE POSTED DIRECTLY ADJACENT TO THE FIRE ALARM PANEL OR IN A LOCATION ACCEPTABLE TO THE FIRE PREVENTION BUREAU, IF AVAILABLE.
7. ALL SPEAKER/STROBE DEVICES MAY NOT BE SHOWN AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. ALL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, ADA, STATE & LOCAL CODES. A COMPLETE FIRE ALARM DEVICE LAYOUT SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR.
8. CONDUIT & WIRING FOR ALL FIRE ALARM DEVICES TO BE RUN WITHIN COLUMNS OR WALLS WHERE APPLICABLE.
9. ALL FIRE ALARMS TO BE AUDIBLE & VISUAL, & COMPLY FULLY TO ICC/ANSI A117.1 SECTION 702. ALL VISUAL ALARMS TO BE SYNCHRONIZED THROUGHOUT.
10. DOOR LOCKS TO AUTOMATICALLY OPEN DURING A FIRE ALARM EVENT. PROVIDE ALL NECESSARY CABLING FROM THE DOOR SECURITY SYSTEM TO THE FIRE ALARM CONTROL PANEL.
11. UPON ACTIVATION OF A DUCT SMOKE DETECTOR, MECHANICAL EQUIPMENT SHALL SHUT DOWN. RTU REMOTE TEST STATIONS SHALL HAVE LED INDICATOR.
12. IF ANY, PROVIDE ALL NECESSARY TAMPER AND FLOW SWITCHES FOR FIRE SUPPRESSION SYSTEM PER THE FIRE SUPPRESSION EXISTING CONDITIONS. COORDINATE EXACT LOCATION AND QUANTITY AS PER SITE CONDITIONS.
13. ALL JUNCTION BOXES HOUSING FIRE ALARM CABLE SHALL HAVE A RED COVER PLATE. COVER PLATE SHALL HAVE CIRCUIT INFORMATION.
14. ALL FIRE ALARM INITIATING DEVICES AND NOTIFICATION DEVICES SHALL BE LABELED WITH CIRCUIT INFORMATION AND ADDRESSIBLE SERIAL CODE AS APPLICABLE.
15. UTILIZE WIRING SIZES AND TYPES AS REQUIRED AND RECOMMENDED BY MANUFACTURER.
16. BATTERY BACK UP SHALL BE SIZED TO COMPLY WITH CODE REQUIREMENT AND LOCAL AMENDMENTS.
17. ALL BATTERIES INSTALLED SHALL BE NEW. FIELD LABEL ALL BATTERIES WITH DATE OF MANUFACTURING.
18. PROVIDE BOOSTER POWER SUPPLIES AS REQUIRED FOR CONNECTION ALL NOTIFICATION DEVICES INDICATED IN FLOOR PLANS. CIRCUITS RATED AT 3A SHALL NOT SERVE A LOAD TO EXCEED 2.5A. INCLUDE SMOKE DETECTOR IN ROOM HOUSING BOOSTERS IF NOT INDICATED IN FLOOR PLANS.
19. NOTIFICATION CIRUCITS VOLTAGE DROP SHALL NOT EXCEED 5% UNLESS OTHERWISE APPROVED BY THE MANUFACTURER AND/OR AHJ.
20. SLC CIRCUITS SHALL HAVE 20% SPARE CAPACITY FOR FUTURE EXPANSION.
21. ALL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED AND SHALL COMPLY WITH ADA REQUIREMENTS. SET CANDELA RATINGS AS REQUIRED BY CODE AND/OR AS REQUIRED BY THE AHJ.

1/2" EMT
REQUEST TO EXIT
CEILING
FLUSH MAGNET DOOR CONTACT MOUNTED IN TOP OF DOOR (TYP.)
1-GANG MORTAR GUARD BOX WELDED TO FRAME AT HEIGHT OF ELECTRIC POWER TRANSFER HUNGER (TYP.)
REQUEST TO EXIT PANIC HARDWARE (TYP.)
ELECTRIC LATCH/LOCK, ELECTRIC MAGNETIC LOCK/DOOR CONTACT
HINGE SIDE
DOOR TYPICAL
LATCH SIDE
WIRING RUN TO SECURITY PANEL, FREE AIR IN J-HOOKS
12" X 12" X 6" DEEP RECESSED JUNCTION BOX WITH BLANK COVER PLATE. MOUNT ABOVE ACCESSIBLE CEILING OVER SECURED SIDE OF DOOR
3/4" EMT
CARD READER 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING. LOCATED ON EXTERIOR SIDE OF DOOR AS SHOWN ON DRAWINGS. CUT AND MOUNT CARD READER FLUSH IN EXTERIOR WALL. COORDINATE INSTALLATION OF MULLION MOUNTED DEVICE WITH DIVISION CC AS SHOWN ON DRAWINGS

NOTES:
1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS AND BOXES
2. EMPTY CONDUITS TO CONTAIN NYLON P



GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES NOT SHOWN ARE EXISTNG TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE.

 # KEYNOTES

1. HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED NORTH OF THIS LINE. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.
2. ALL ELECTRICAL DEVICES, NOTED WITH <XR> NORTH THIS LINE ARE TO BE SALVAGED AND REUSED IN NEW CONSTRUCTION.
3. EC TO FIELD VERIFY EXISTING FLOW AND TAMPER SWITCHES. FIRE ALARM CONTRACTOR TO DETERMINE IF ADDITIONAL FLOW OR TAMPER SWITCHES ARE REQUIRED FOR SPRINKLER MODIFICATIONS.

1 EDF-101 ELECTRICAL DEMOLITION FIRST FLOOR FIRE ALARM PLAN

1/8" = 1'-0"

N

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SIGNATURE

DATE

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REVIEWED BY	NI

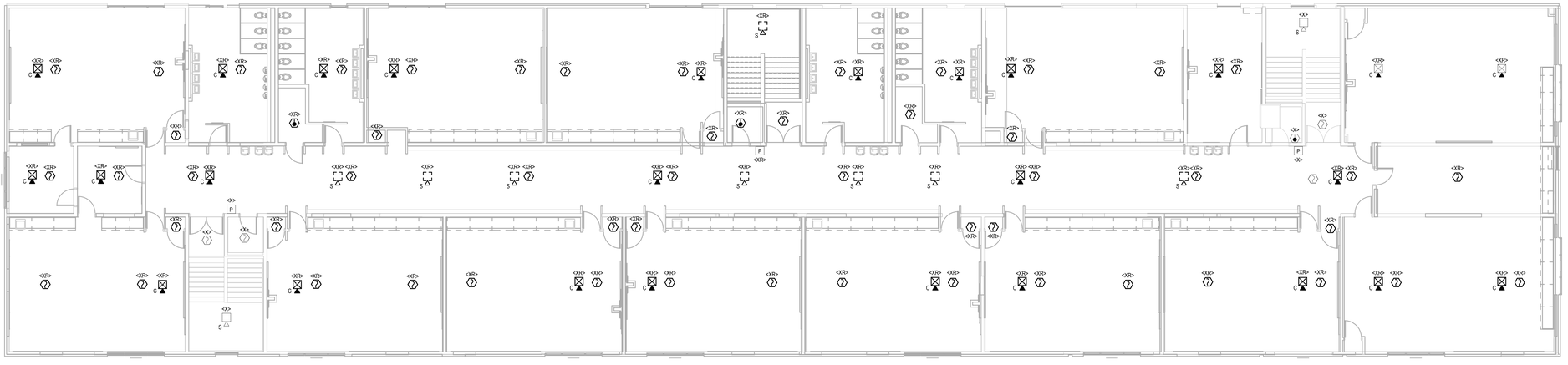
ELECTRICAL DEMOLITION FIRST FLOOR FIRE ALARM PLAN

EDF-101

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES NOT SHOWN ARE EXISTNG TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE.



1 EDF-102 ELECTRICAL DEMOLITION SECOND FLOOR FIRE ALARM PLAN

1/8" = 1'-0"

N

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ELECTRICAL DEMOLITION SECOND FLOOR FIRE ALARM PLAN

EDF-102

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

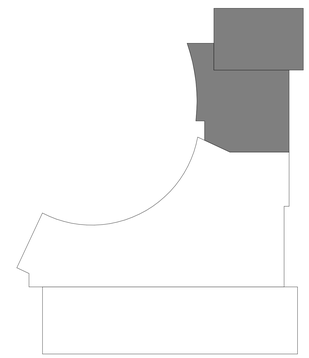
**KEYNOTES**

1. PROVIDE PLASTIC GUARD FOR FIRE ALARM PULL STATION IN GYMNASIUM.
2. PROVIDE WIRE GUARD FOR FIRE ALARM NOTIFICATION DEVICE IN GYMNASIUM.
3. PROVIDE PULL STATION WITH PROTECTIVE PLASTIC COVER.
4. COORDINATE LOCATION OF FIRE ALARM ANNUNCIATOR PANEL WITH "AHJ" PRIOR TO ROUGH-IN.
5. PROVIDE NEW KNOX BOX AS SHOWN. COORDINATE FINAL LOCATION WITH AHJ.



1 EF-101A ELECTRICAL FIRST FLOOR FIRE ALARM PLAN - MODULE A

1/8" = 1'-0"



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ELECTRICAL FIRST FLOOR FIRE ALARM PLAN - MODULE A

EF-101A

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

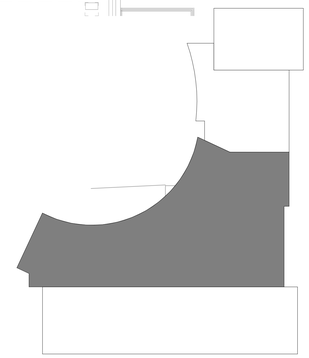
**KEYNOTES**

1 PROVIDE PULL STATION WITH PROTECTIVE PLASTIC COVER.



1 EF-101B ELECTRICAL FIRST FLOOR FIRE ALARM PLAN - MODULE B

1/8" = 1'-0"



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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/2025
DRAWN BY	CM
REVIEWED BY	NI

ELECTRICAL FIRST FLOOR FIRE ALARM PLAN - MODULE B

EF-101B

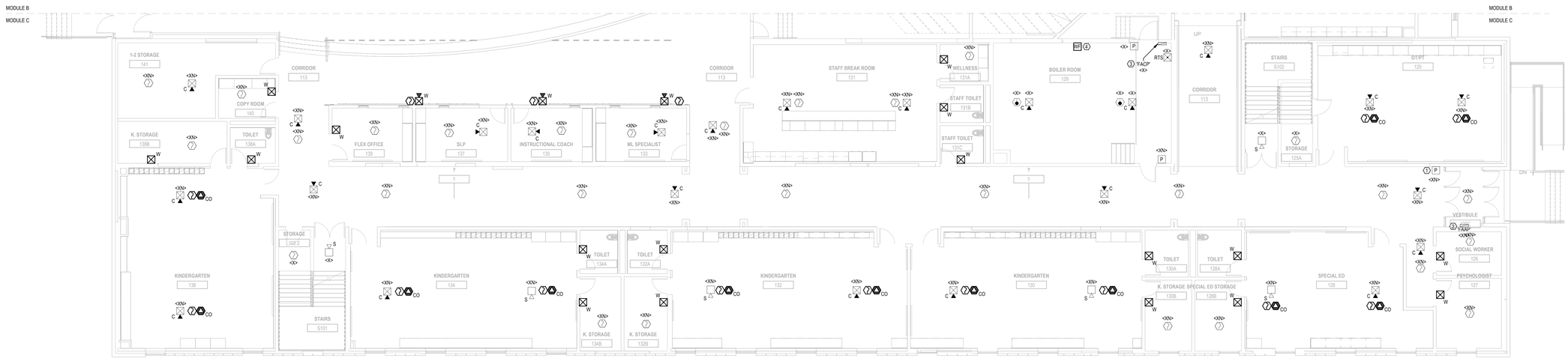
BIDDING

GENERAL NOTES:

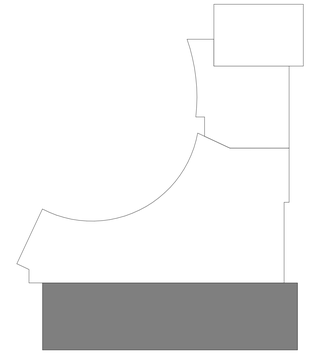
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

 # KEYNOTES

1 PROVIDE PULL STATION WITH PROTECTIVE PLASTIC COVER.
2 COORDINATE LOCATION OF FIRE ALARM ANNUNCIATOR PANEL WITH "AHJ" PRIOR TO ROUGH-IN.
3 RECIRCUIT FIRE ALARM EQUIPMENT TO EXISTING POWER CIRCUIT SERVING THE FIRE ALARM EQUIPMENT. CIRCUIT TO BE PROVIDED WITH SURGE PROTECTION AND BREAKER LOCKOUT.
4 EC TO FIELD VERIFY EXISTING FLOW AND TAMPER SWITCHES. FIRE ALARM CONTRACTOR TO DETERMINE IF ADDITIONAL FLOW OR TAMPER SWITCHES ARE REQUIRED FOR SPRINKLER MODIFICATIONS.



1 EF-101C ELECTRICAL FIRST FLOOR FIRE ALARM PLAN - MODULE C
1/8" = 1'-0"



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ELECTRICAL FIRST FLOOR FIRE ALARM PLAN - MODULE C

EF-101C

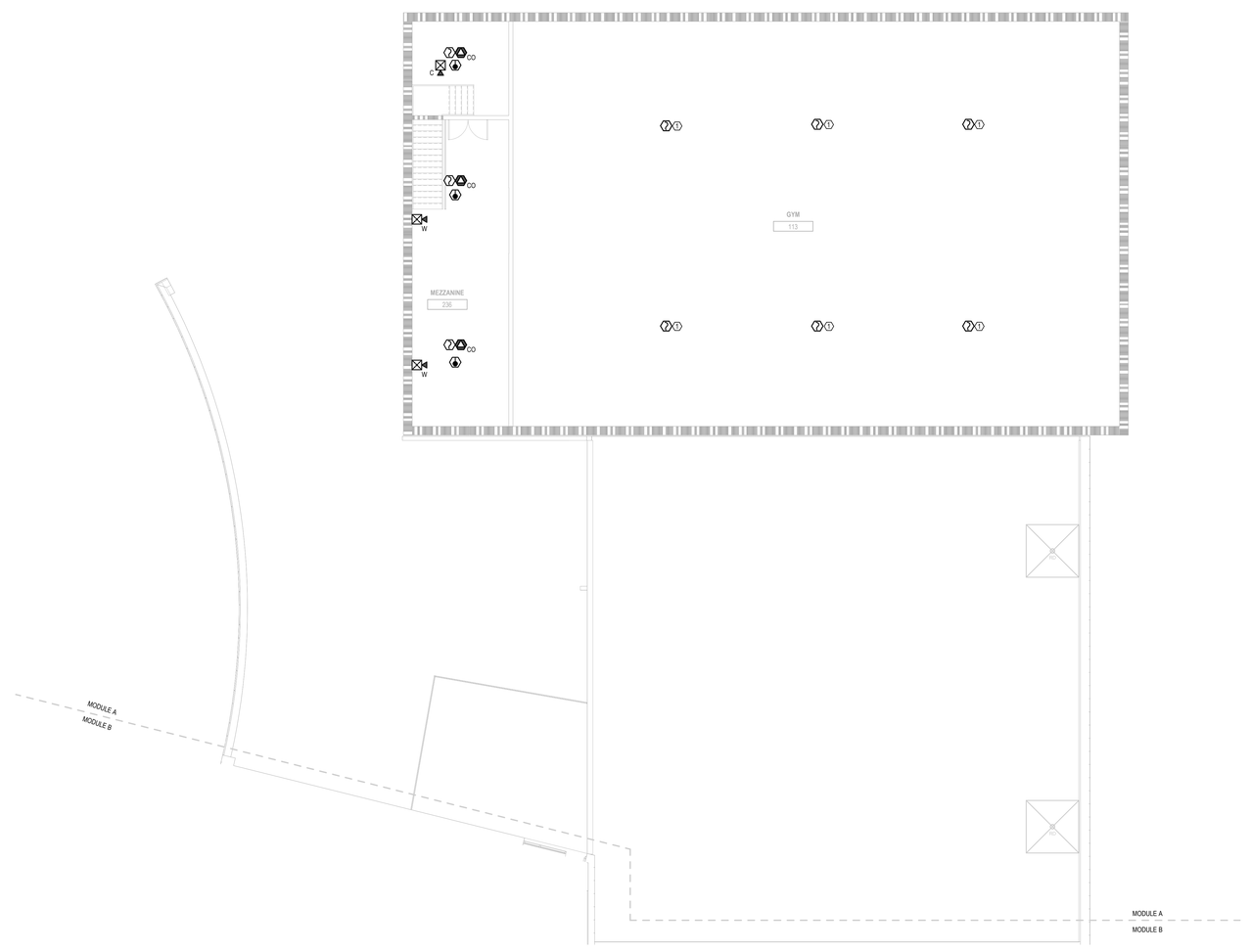
BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

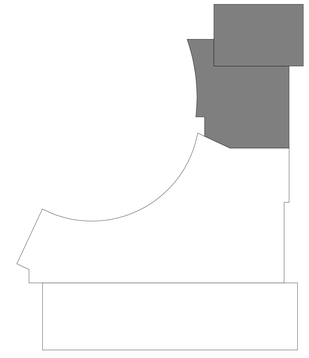
**KEYNOTES**

1. PROVIDE WIRE GUARD FOR FIRE ALARM NOTIFICATION DEVICE IN GYMNASIUM.



1 EF-102A ELECTRICAL SECOND FLOOR FIRE ALARM PLAN - MODULE A

1/8" = 1'-0"



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ELECTRICAL SECOND FLOOR FIRE ALARM PLAN - MODULE A

EF-102A

BIDDING

GENERAL NOTES:

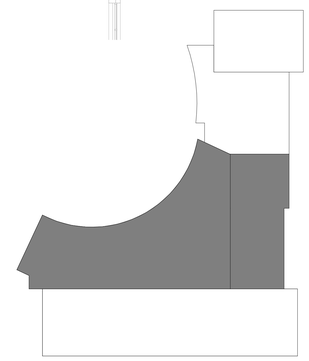
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

 # KEYNOTES

1 PROVIDE PULL STATION WITH PROTECTIVE PLASTIC COVER.



1 ELECTRICAL SECOND FLOOR FIRE ALARM PLAN - MODULE B
EF-102B 1/8" = 1'-0"



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ELECTRICAL SECOND FLOOR FIRE ALARM PLAN - MODULE B

EF-102B

BIDDING

GENERAL NOTES:

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2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
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4. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
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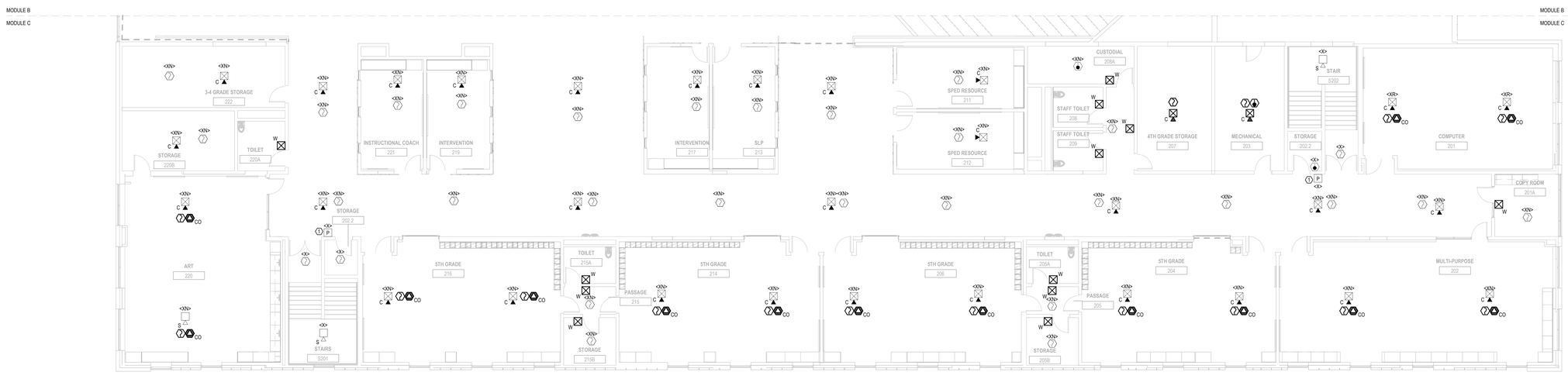
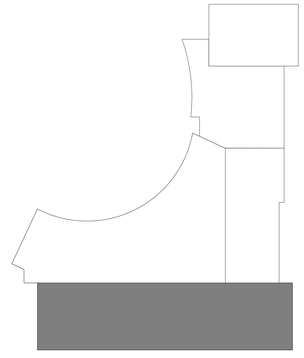
 # KEYNOTES

1 PROVIDE PULL STATION WITH PROTECTIVE PLASTIC COVER.



1 EF-102C ELECTRICAL SECOND FLOOR FIRE ALARM PLAN - MODULE C

1/8" = 1'-0"



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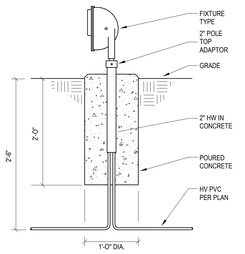
ELECTRICAL SECOND FLOOR FIRE ALARM PLAN - MODULE C

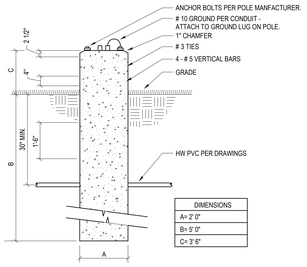
EF-102C

BIDDING



3 ES-100 GROUND MOUNTING DETAIL - FIXTURE TYPES "S4" "S5A" "S5B" "S5C"

SCALE: N.T.S.



2 ES-100 POLE BASE DETAIL - FIXTURE TYPES "S3A" "S3B" "S3C"

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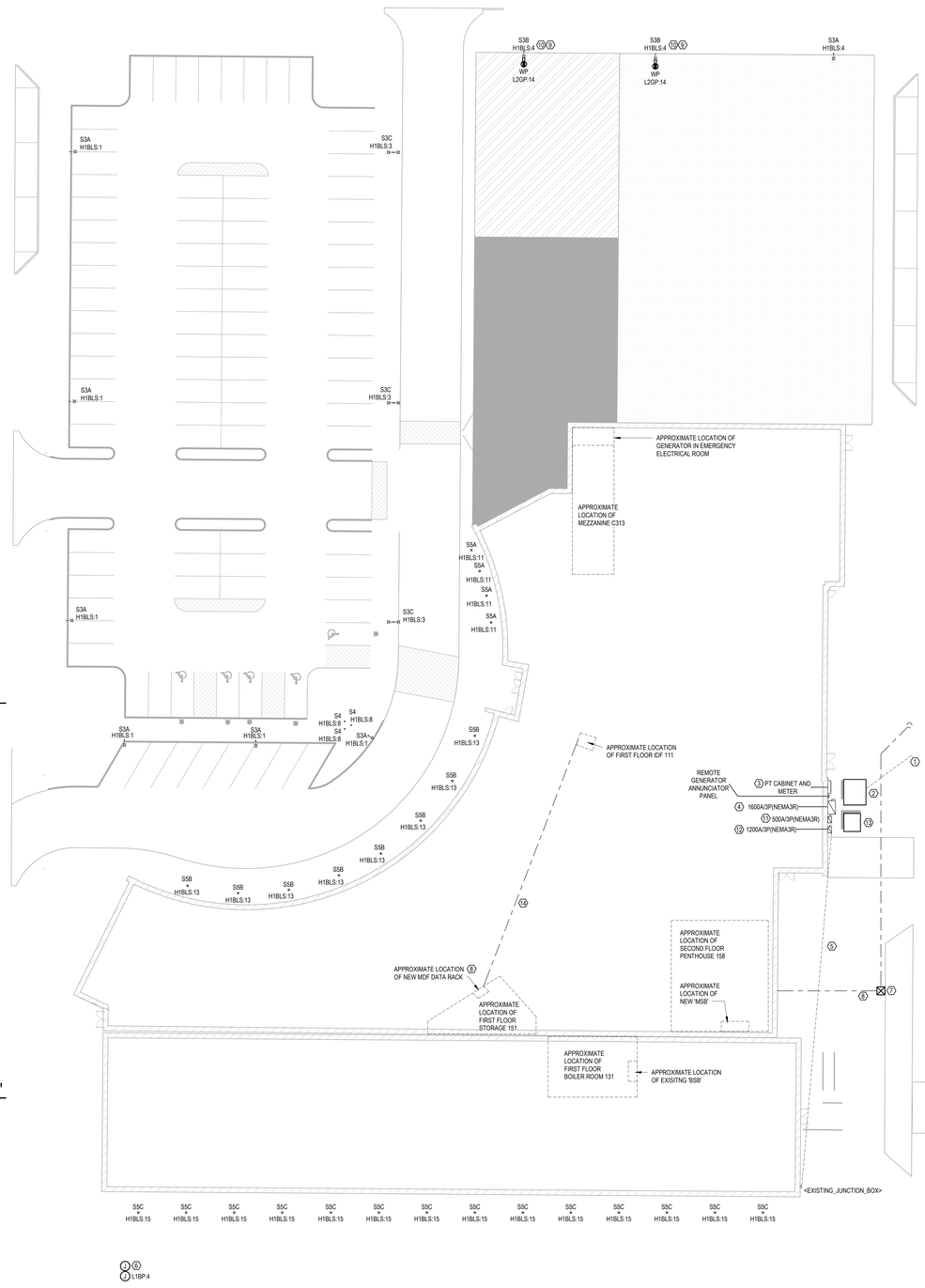

1 ES-100 ELECTRICAL SITE PLAN

1" = 20'-0"

N

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. COORDINATE ALL SITE WORK WITH CIVIL CONTRACTOR. COORDINATE ALL CONDUIT ROUTING WITH CIVIL PLANS.
4. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, AND/OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTORS SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
5. UTILITY POINTS OF SERVICE AND WORK/MATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
6. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASEMENT OF CONDUITS, TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING AND BACKFILL AND PAY ALL UTILITY CO. FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
7. ALL LIGHTING FIXTURES ARE NEW UNLESS SPECIFIED OTHERWISE.
8. EC SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR RATED WALL INSTALLATION REQUIREMENTS, MOUNTING HEIGHTS, AND FINAL FIXTURE ORIENTATION PRIOR TO INSTALL.
9. ALL EXTERIOR LIGHTING TO BE CONTROLLED THROUGH THE LIGHTING CONTROL PANEL AND THE BUILDING MOUNTED PHOTOCELL. REFER TO SHEET E-301 FOR THE LIGHTING CONTROL PANEL SCHEDULE.
10. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA-3R).
11. EC SHALL COORDINATE FINAL SECURITY CAMERA LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

 # KEYNOTES

1 APPROXIMATE PRIMARY FEEDER ROUTING FOR UTILITY TRANSFORMER FROM RISER UTILITY POLE. COORDINATE NEW SERVICE REQUIREMENT WITH UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR.

2 APPROXIMATE LOCATION OF NEW UTILITY TRANSFORMER. EC TO COORDINATE NEW SERVICE REQUIREMENTS WITH UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR. PROVIDE BOLLARDS AS REQUIRED PER UTILITY COMPANY AND TRAFFIC PROTECTION.

3 APPROXIMATE LOCATION OF NEW UTILITY METER. EC TO COORDINATE NEW SERVICE REQUIREMENTS WITH UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR. REFER TO NEW CT-CABINET/METER ON 2/E-301 NEW ONE LINE DIAGRAM FOR CONDUIT CONNECTIONS AND MORE INFORMATION.

4 APPROXIMATE LOCATION OF NEW FUSED DISCONNECT. EC TO COORDINATE REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR. REFER TO NEW 1600A/3P FUSED DISCONNECT ON 2/E-301 NEW ONE LINE DIAGRAM FOR CONDUIT CONNECTIONS AND MORE INFORMATION.

5 APPROXIMATE FEEDER ROUTING TO 'BSB' TO BE MODIFIED AND EXTENDED. REFER TO E-301 ONE-LINE DIAGRAMS AND DETAILS FOR MORE INFORMATION.

6 PROVIDE (1) 1" CONDUIT TO POWER AND (1) 1-1/2" CONDUIT FOR DATA TO THE SIGN ROUTED TO MDF. COORDINATE EXACT REQUIREMENT, LOCATION, AND HEIGHT WITH OWNER AND SUPPLIER PRIOR TO ROUGH-IN.

7 PROVIDE FIBER OPTIC PULL BOX PER GENESEO COMMUNICATIONS SPECIFICATIONS AND REQUIREMENTS.

8 APPROXIMATE LOCATION OF THE DATA/COMMUNICATION SERVICE ENTRANCES. EC TO COORDINATE SITE WORK WITH THE CIVIL CONTRACTOR. PROVIDE (1) 2"C FOR FIBER, (1) 2"C FOR CABLE/INTERNET, (1) 2"C FOR PHONE SERVICE, AND (1) 2"C SPARE. COORDINATE WITH THE OWNER AND SERVICE PROVIDER FOR FINAL INSTALLATION REQUIREMENTS AND LOCATIONS.

9 PROVIDE GFCI OUTLET WITH IN-USE COVER AT SITE LIGHT POLE. PROVIDE 2#8AWG CU + 1#10AWG CU GND IN 1"C. REFER TO SITE LIGHT POLE SELECTION ON SHEET E-302 ELECTRICAL SCHEDULES AT LIGHTING FIXTURE SCHEDULE.

10 PROVIDE LOCKABLE OUTLET COVER FOR EXTERIOR RECEPTACLE.

11 APPROXIMATE LOCATION OF NEW FUSED DISCONNECT. EC TO COORDINATE REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR. REFER TO NEW 500A/3P FUSED DISCONNECT ON 2/E-301 NEW ONE LINE DIAGRAM FOR CONDUIT CONNECTIONS AND MORE INFORMATION.

12 APPROXIMATE LOCATION OF NEW FUSED DISCONNECT. EC TO COORDINATE REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR. REFER TO NEW 1200A/3P FUSED DISCONNECT ON 2/E-301 NEW ONE LINE DIAGRAM FOR CONDUIT CONNECTIONS AND MORE INFORMATION.

13 APPROXIMATE LOCATION OF NEW STEP DOWN TRANSFORMER. EC TO COORDINATE REQUIREMENTS WITH SUPPLIER PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR. PROVIDE BOLLARDS AS REQUIRED PER SUPPLIER AND TRAFFIC PROTECTION.

14 PROVIDE MULTI-MODE FIBER CABLE PER DISTRICT STANDARDS BETWEEN MDF AND IDF CABINET. COORDINATE REQUIREMENT WITH OWNER IT.

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ELECTRICAL SITE PLAN

ES-100

BIDDING

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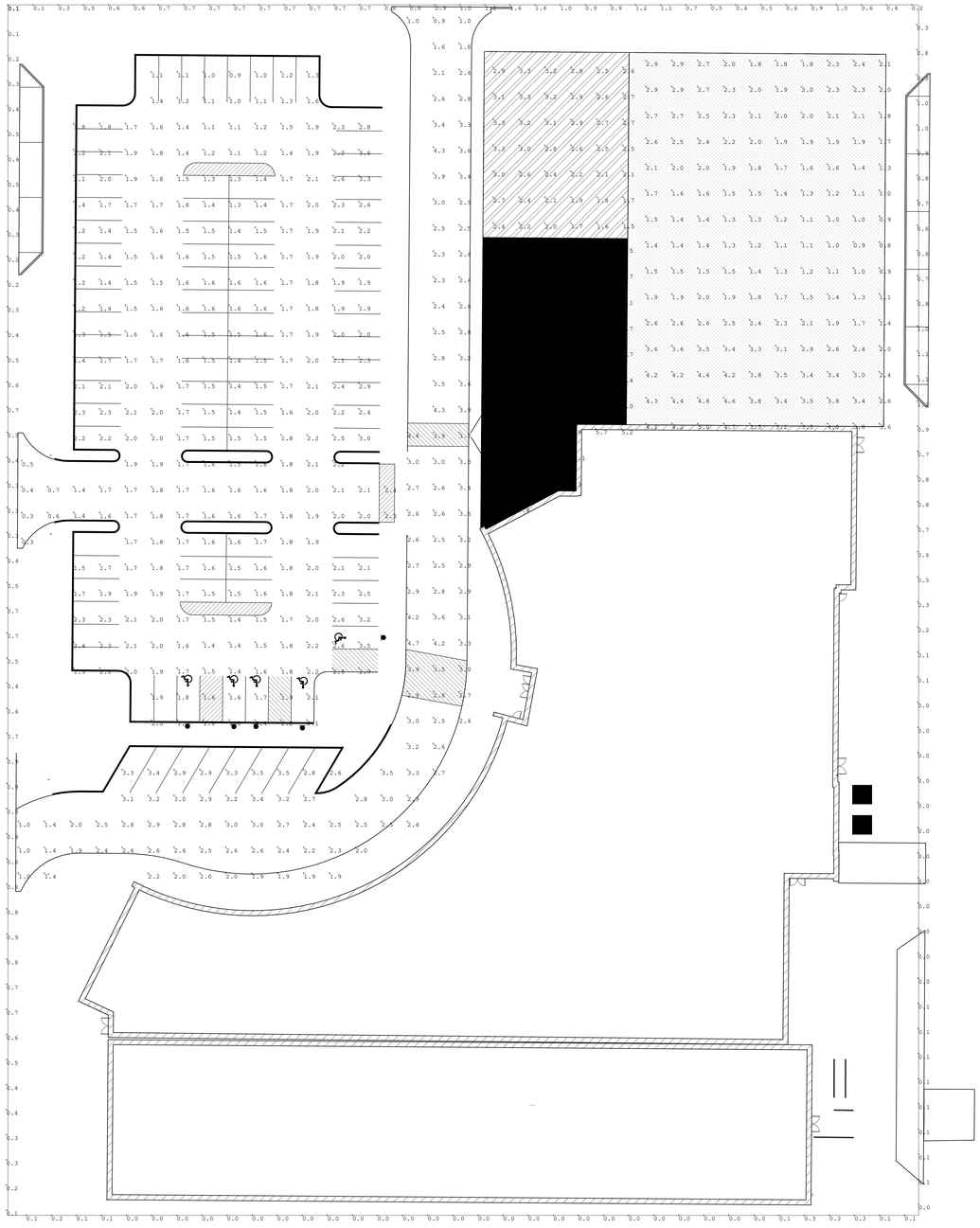

Calculation Summary							
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N GRASS FIELD	Illuminance	Fc	2.27	5.0	0.8	2.84	6.25
N HARD GROUND PLAY AREA	Illuminance	Fc	4.10	13.1	1.5	2.73	8.73
N PLAYGROUND	Illuminance	Fc	2.58	3.3	1.5	1.72	2.20
NE DRIVE UP DROP-OFF	Illuminance	Fc	2.75	4.7	0.9	3.06	5.22
NE PARKING	Illuminance	Fc	1.75	3.6	0.3	5.83	12.00
PPROPERTY LINE	Illuminance	Fc	0.43	1.6	0.0	N.A.	N.A.

1 / ES-100P — ELECTRICAL SITE PLAN PHOTOMETRICS

1" = 20'-0"

N

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ELECTRICAL SITE PLAN PHOTOMETRICS

ES-100P

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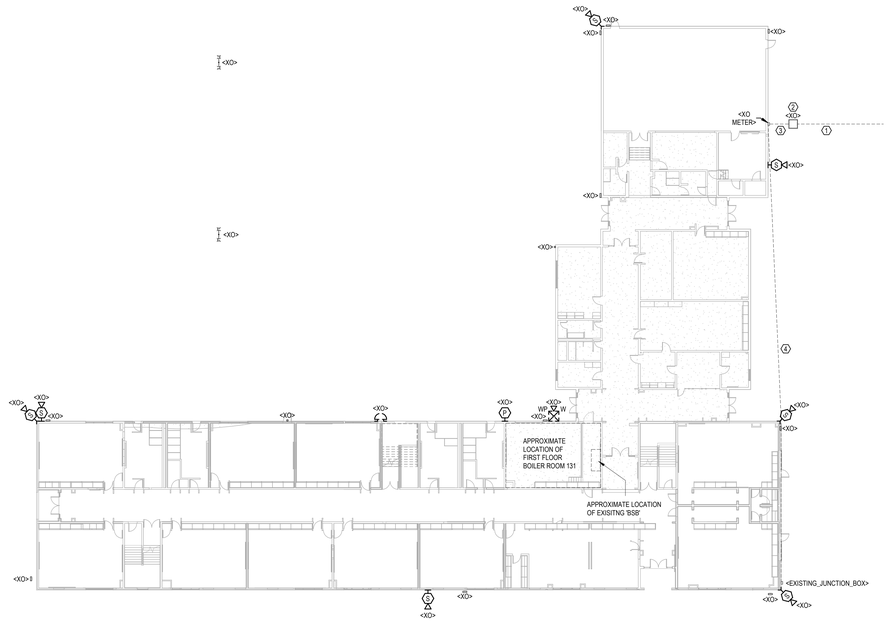
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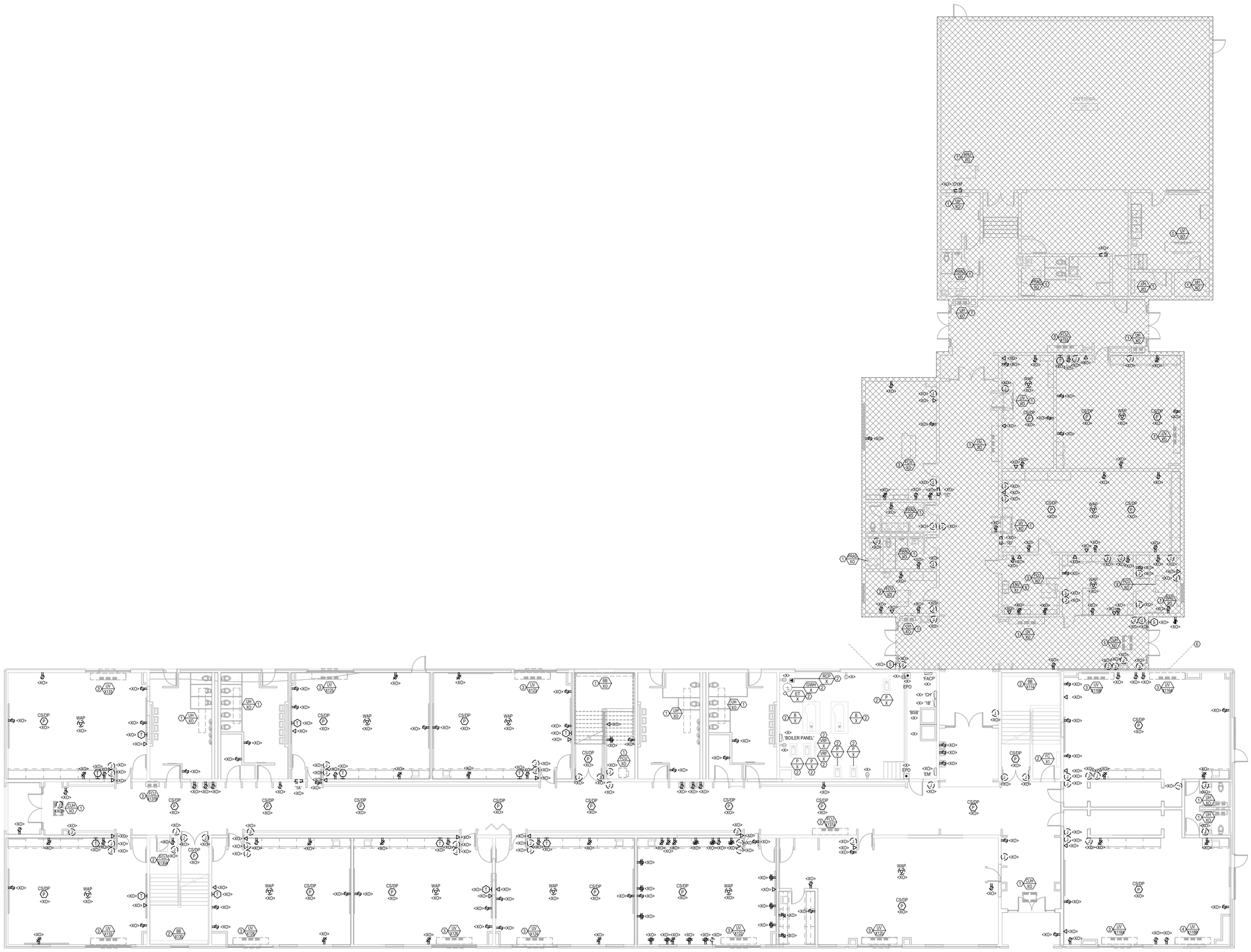

1 ED-101 ELECTRICAL DEMOLITION FIRST FLOOR POWER PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES NOT SHOWN ARE EXISTING TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE.

 # KEYNOTES

1 MECHANICAL EQUIPMENT IS EXISTING TO BE REMOVED. EC TO DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.

2 MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. EC TO MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.

3 MECHANICAL EQUIPMENT IS EXISTING TO BE RELOCATED AND BE RELABELED. REFER TO MECHANICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT RENAMING.

4 MECHANICAL EQUIPMENT IS EXISTING TO BE RELOCATED AND BE RELABELED. REFER TO MECHANICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT RENAMING.

5 MECHANICAL EQUIPMENT IS EXISTING TO BE RELOCATED. EC TO DISCONNECT AND MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT. EC TO RELOCATE EXISTING DISCONNECT SWITCH AND RE-CONNECT TO NEW POWER CONNECTIONS IN NEW LOCATION. REFER TO E-103C FOR EXISITING IN NEW LOCATION.

6 HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED NORTH OF THIS LINE. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.

LEGAT ARCHITECTS
Design with a Difference

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LINCOLN - IRVING ADDITION AND RENOVATION

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REVIEWED BY	NI

ELECTRICAL DEMOLITION FIRST FLOOR PLAN

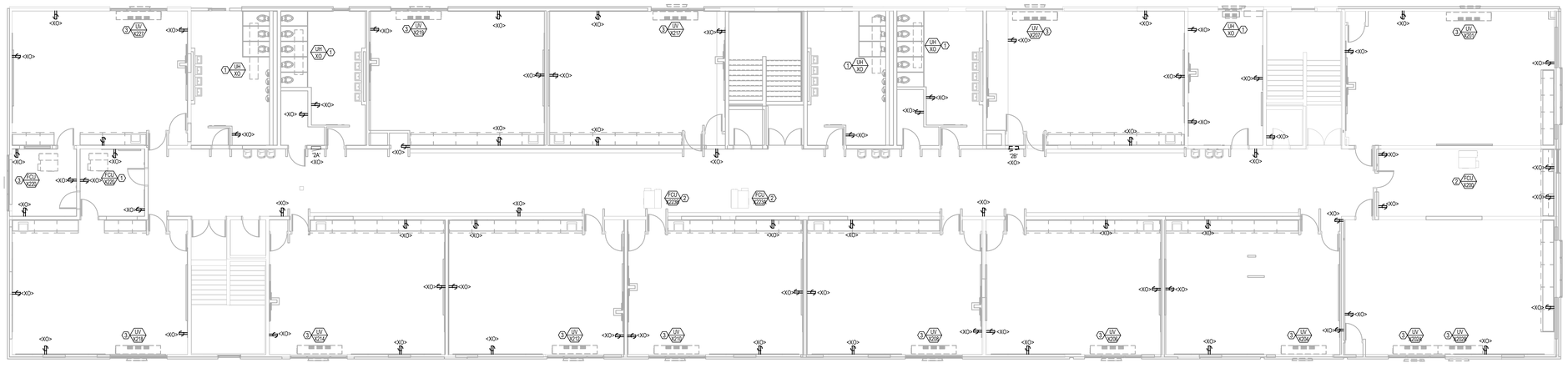
ED-101

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES NOT SHOWN ARE EXISTING TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE.

#	KEYNOTES
1	MECHANICAL EQUIPMENT IS EXISTING TO BE REMOVED. EC TO DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
2	MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. MODIFY AND EXTEND CONDUIT AS NESSARY FOR NEW PANEL CONNECTION.
3	MECHANICAL EQUIPMENT IS EXISTING TO BE RELOCATED AND BE RELABELED. REFER TO MECHANICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT RENAMING.



1 / ED-102 ELECTRICAL DEMOLITION SECOND FLOOR POWER PLAN

1/8" = 1'-0"

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ELECTRICAL DEMOLITION SECOND FLOOR PLAN

ED-102

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES NOT SHOWN ARE EXISTING TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE.

#	KEYNOTES
1	MECHANICAL EQUIPMENT IS EXISTING TO BE REMOVED. EC TO DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
2	MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. EC TO MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
3	MECHANICAL EQUIPMENT IS EXISTING TO BE RELOCATED. EC TO DISCONNECT AND MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS. EC TO COORDINATE WITH GC, MC, AND OWNER TO RELOCATE EXISTING DISCONNECT SWITCH AND RE-CONNECT TO NEW POWER CONNECTIONS. REFER TO E-105B FOR EXISITING IN NEW LOCATION.
4	HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED NORTH OF THIS LINE. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.
5	ALL ELECTRICAL DEVICES, NOTED WITH <XR> NORTH THIS LINE ARE TO BE SALVAGED AND REUSED IN NEW CONSTRUCTION.



1 ED-103 ELECTRICAL DEMOLITION ROOF PLAN

1/8" = 1'-0"

N



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ELECTRICAL DEMOLITION ROOF FLOOR PLAN

ED-103

BIDDING

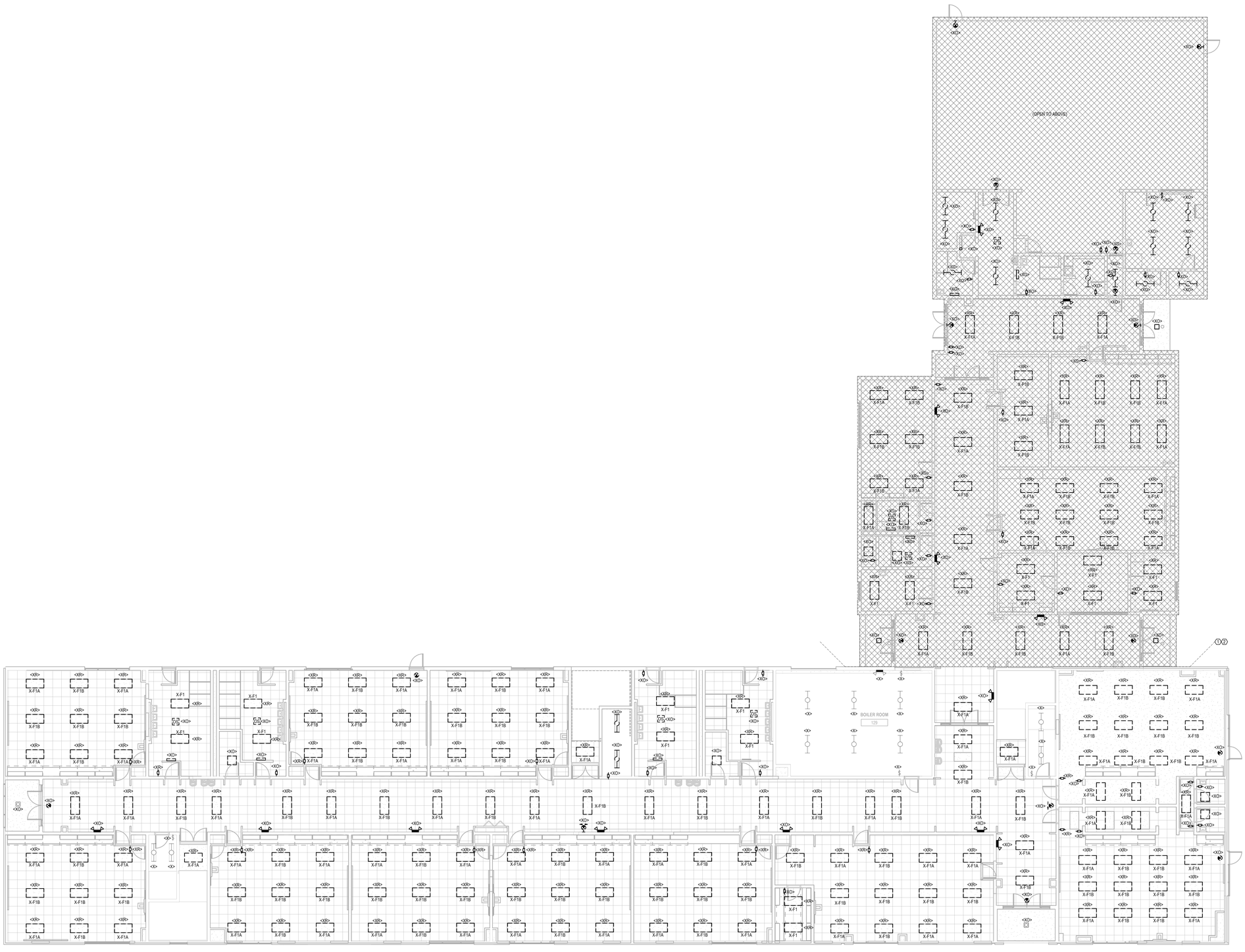
GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES NOT SHOWN ARE EXISTING TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE.

 # KEYNOTES

1 HATCH PATTERN INDICATES EXISTING BUILDING TO BE DEMOLISHED NORTH OF THIS LINE. COORDINATE EQUIPMENT TO BE SALVAGED WITH OTHER DRAWINGS.

2 ALL ELECTRICAL DEVICES, NOTED WITH <XR> NORTH THIS LINE ARE TO BE SALVAGED AND REUSED IN NEW CONSTRUCTION.



1 ED-201 ELECTRICAL DEMOLITION FLOOR LIGHTING PLAN
1/8" = 1'-0"

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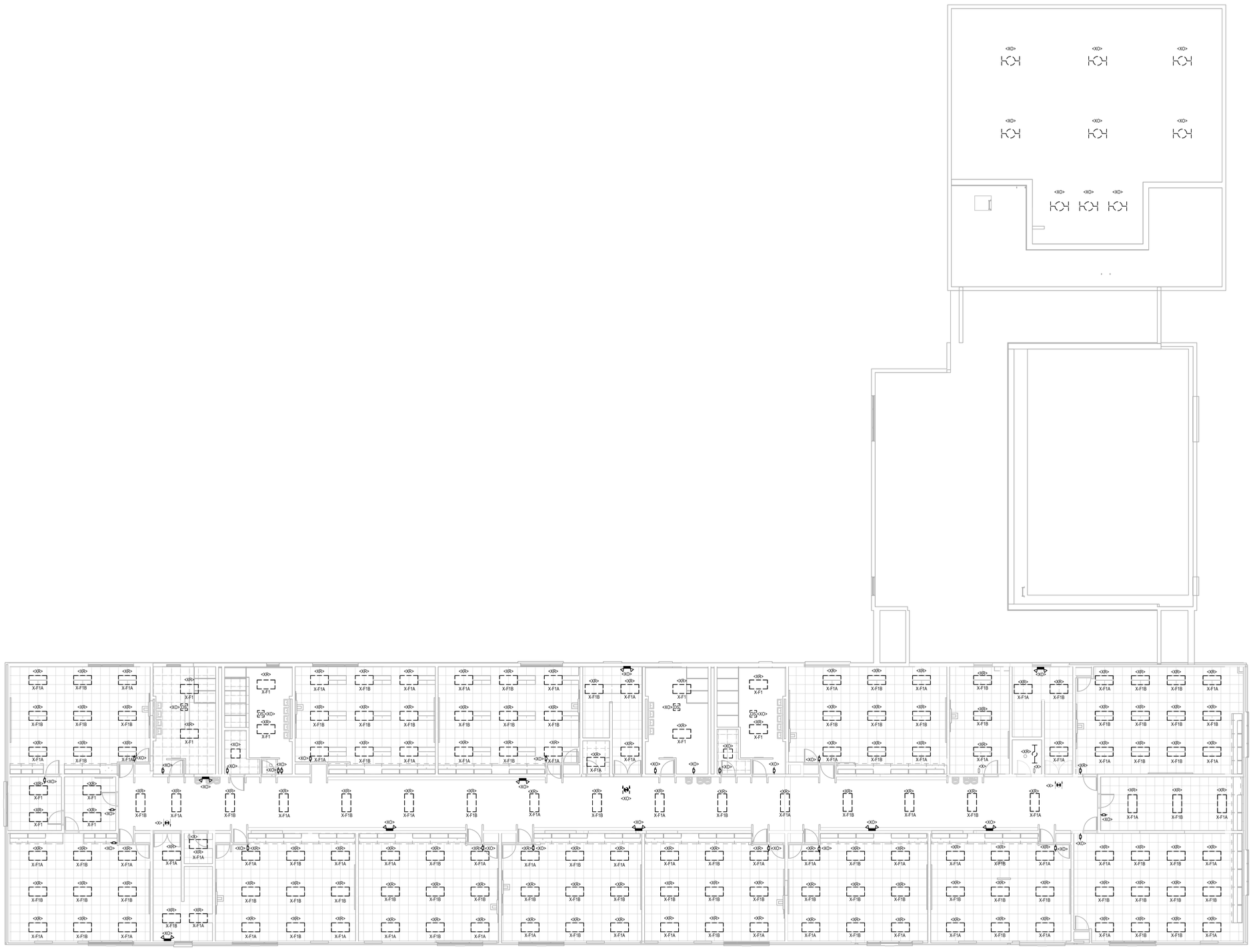
ELECTRICAL DEMOLITION FIRST FLOOR LIGHTING PLAN

ED-201

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES NOT SHOWN ARE EXISTNG TO REMAIN AND BE REUSED UNLESS NOTED OTHERWISE.



1 ED-202 ELECTRICAL DEMOLITION SECOND FLOOR LIGHTING PLAN

1/8" = 1'-0"

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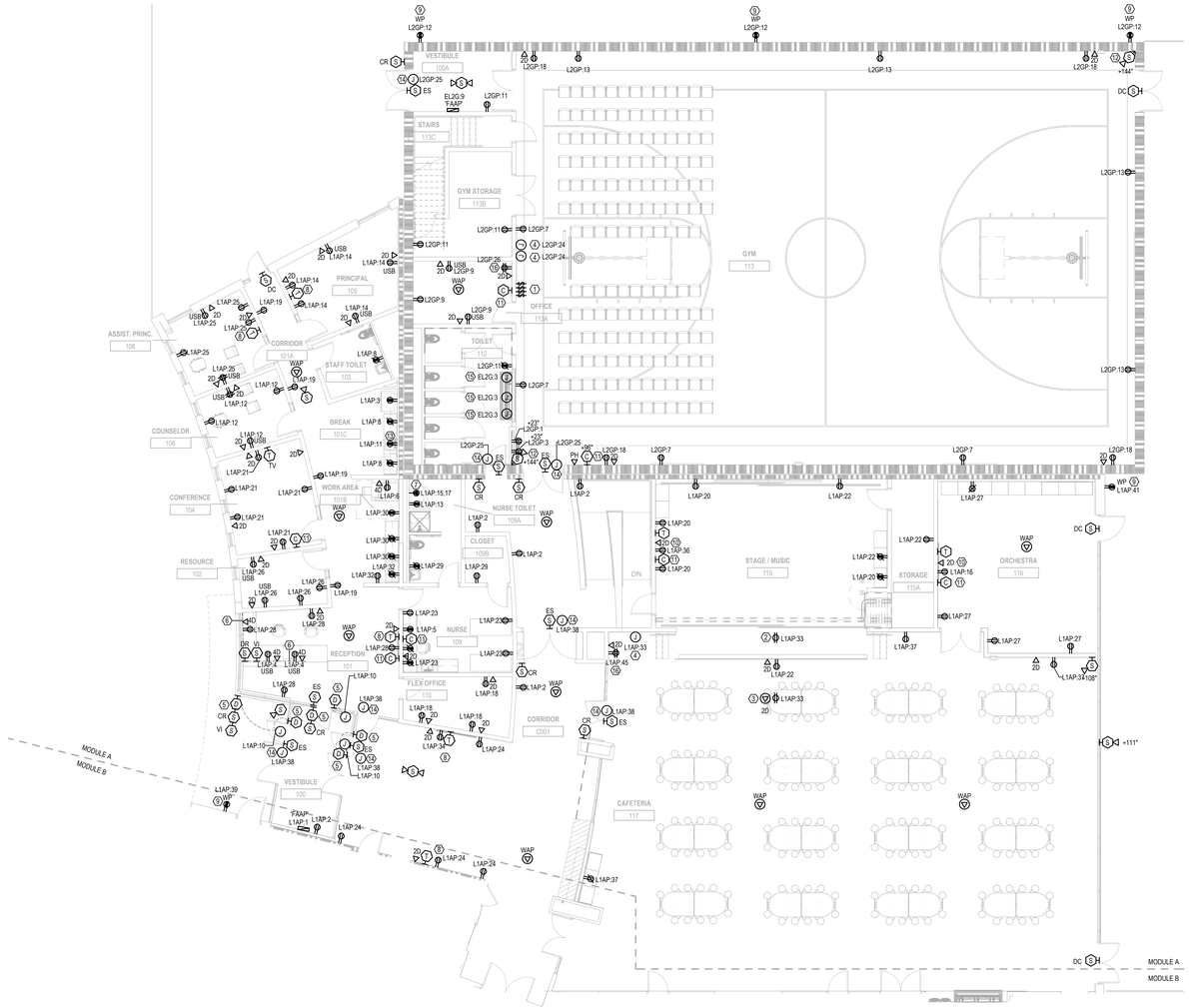
ELECTRICAL DEMOLITION SECOND FLOOR LIGHTING PLAN

ED-202

BIDDING



1 E-101A ELECTRICAL FIRST FLOOR POWER PLAN - MODULE A

1/8" = 1'-0"

N

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE ALL NECESSARY ROUGH-INS FOR SECURITY EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH OWNER'S SECURITY VENDOR. VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDERS AND OWNER.
5. SECURITY DEVICES (CAMERAS, CARD READERS, ETC.) ARE OWNER PROVIDED. COORDINATE REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.
6. COORDINATE FINAL SECURITY CAMERA LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. INSTALL WALL MOUNTED OUTLETS 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
8. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
9. ALL WALL RECEPTACLES ARE RECESSED MOUNTED.
10. ALL RECEPTACLES TO BE TAMPER RESISTANT RECEPTACLES PER NEC 406.12.
11. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.
12. COORDINATE ALL FINAL RECEPTACLE LOCATION WITH ARCHITECTURAL DRAWINGS, FINAL FURNITURE AND CASEWORK LAYOUTS, PRIOR TO ROUGH-IN.
13. PROVIDE DUAL DATA DROP FOR ALL WAP LOCATIONS.

 # KEYNOTES

1 EC TO PROVIDE CONTROL PANEL FOR BASKETBALL HOOP HOIST AND HEIGHT ADJUSTER. COORDINATE FINAL LOCATION AND REQUIREMENT WITH OWNER AND SYSTEM SUPPLIER PRIOR TO ROUGH-IN.

2 PROVIDE POWER CONNECTION TO CEILING MOUNTED PROJECTION SCREEN. COORDINATE LOCATION AND CONTROL REQUIREMENT WITH OWNER.

3 PROVIDE POWER, HDMI AND DATA CONNECTION TO CEILING MOUNTED PROJECTOR. COORDINATE LOCATION AND CONTROL REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.

4 PROVIDE (1) HDMI, (1) CAT6A, PROJECTOR CONTROL SWITCH AND DUPLEX RECEPTACLE FROM WALLPLATE TO AV RACK. COORDINATE LOCATION AND REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.

5 PROVIDE ELECTRICAL CONNECTION FOR AUTOMATIC DOOR. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL DOCUMENTS. COORDINATE ALL REQUIRED CONNECTIONS AND LOCATIONS WITH DOOR PROVIDER PRIOR TO ROUGH-INS.

6 PROVIDE (1) 3/4"C FOR POWER AND (1) 1"C FOR DATA, ROUTED AS SHOWN TO ACCESSIBLE FULL HEIGHT WALL. COORDINATE FINAL LOCATION WITH CONSTRUCTION MANAGER.

7 PROVIDE NEMA 14-30R. PROVIDE 3#10AWG CU, 1#10AWG CU GND IN 3/4"C FOR DRYER. COORDINATE FINAL REQUIREMENT WITH OWNER.

8 PROVIDE POWER AND DATA CONNECTION TO DISPLAY. COORDINATE LOCATION AND REQUIREMENT WITH ARCHITECT AND OWNER PRIOR ROUGH-IN.

9 PROVIDE LOCKABLE OUTLET COVER FOR EXTERIOR RECEPTACLE.

10 PROVIDE POWER AND NETWORK CONNECTION FOR TV. COORDINATE FINAL LOCATION/HEIGHT AND REQUIREMENT WITH OWNER.

11 EC TO PROVIDE ROUGH-IN FOR OWNER PROVIDED CLOCK SYSTEM. COORDINATE FINAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.

12 COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.

13 MICROWAVE OVEN LOCATED ABOVE SINK, MOUNTED 54 INCH ABOVE FINISHED FLOOR.

14 PROVIDE POWER CONNECTION TO ACCESS CONTROL DEVICE POWER SUPPPLY. COORDINATE REQUIREMENT WITH SECURITY CONTRACTOR.

15 EC TO PROVIDE JUNCTION BOX AND CONNECTION FOR ELECTRICAL PLUMBING FIXTURES. COORDINATE WITH PLUMBING CONTRACTOR FOR FINAL LOCATION AND ADDITIONAL REQUIREMENTS.

16 APPROXIMATE LOCATION OF AV RACK. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND CONSTRUCTION MANAGER. PROVIDE INTERFACE WITH FIRE ALARM SYSTEM TO MUTE SOUND IN CASE OF ALARM. PROVIDE (2) 2"C FOR OWNER PROVIDED SPEAKERS. CONFIRM SPEAKERS LOCATION WITH OWNER.

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ELECTRICAL FIRST FLOOR POWER PLAN - MODULE A

E-101A

BIDDING

ELECTRICAL KITCHEN EQUIPMENT SCHEDULE

TAG	QTY	NAME	AMPS	VOLTAGE/ PHASE	LOAD	CONNECTION TYPE	WIRE	ELEVATION	REMARKS
01	2	WALK-IN COOLER/FREEZER ASSEMBLY	8.0 A	120V/1P	960 VA	DIRECT/JBOX	3/4"C, 1#12, #12G	18"	(2 @ 120V AT 8.0 AMPS EA.) STUB DOWN. SEE DETAIL "S" SHEET FS-2 FOR WIRING DIAGRAM
02	1	COOLER REMOTE COMPRESSOR	11.7 A	208V/3P	4215 VA	DIRECT/JBOX	3/4"C, 3#12, #12G	18"	(208-230V) VERIFY LOCATION OF ROUGH-IN
03	2	UNIT COOLER (COOLER)	0.6 A	208V/1P	125 VA	DIRECT/JBOX	3/4"C, 2#12, #12G	18"	(208-230V) STUB DOWN. SEE DETAIL "S" SHEET FS-2 FOR WIRING DIAGRAM
04	1	FREEZER REMOTE COMPRESSOR	17.2 A	208V/3P	6197 VA	DIRECT/JBOX	3/4"C, 3#12, #12G	18"	(208-230V) VERIFY LOCATION OF ROUGH-IN
05	4	UNIT COOLER (FREEZER)	1.5 A	208V/1P	312 VA	DIRECT/JBOX	3/4"C, 2#12, #12G	18"	(208-230V) STUB DOWN. SEE DETAIL "S" SHEET FS-2 FOR WIRING DIAGRAM. ADD ONE CONNECTION @ 120V FOR HEATER CABLE
20-1	1	DISHWASHER WITH BOOSTER HEATER	57.3 A	208V/3P	20643 VA	DIRECT/JBOX	1 1/4"C, 3#4, #8G	18"	80.0 AMPS BREAKER (REFER TO PANEL 'L1K' SCHEDULE)
20-2	1	DISHWASHER WITH BOOSTER HEATER	70.0 A	208V/3P	25219 VA	DIRECT/JBOX	1 1/4"C, 3#3, #8G	18"	90.0 AMPS BREAKER (REFER TO PANEL 'L1K' SCHEDULE)
20-3	1	DISHWASHER WITH BOOSTER HEATER	4.0 A	208V/3P	1441 VA	DIRECT/JBOX	3/4"C, 3#12, #12G	18"	15.0 AMPS (REFER TO PANEL 'L1K' SCHEDULE)
24	1	DISPOSER WITH CONTROLS	12.1 A	208V/1P	2517 VA	DIRECT/JBOX	3/4"C, 2#12, #12G	18"	INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)
32	1	CABINET, HEATED, ROLL-THRU	7.3 A	208V/1P	1500 VA	DIRECT/JBOX	3/4"C, 2#12, #12G	90"	
33	1	REFRIGERATOR, ROLL-THRU	7.3 A	120V/1P	876 VA	5-15R	3/4"C, 1#12, #12G	90"	
36	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	20.0 A	208V/1P	1600 VA	6-20R	3/4"C, 2#12, #10G	18"	
37	1	HOT SERVING COUNTER WITH FOOD SHIELD	25.1 A	208V/3P	9043 VA	L14-30R	1"C, 3#8, #8N, #10G	18"	(120/208V AT 3PHASE) (50 AMP BREAKER) LOAD CENTER PROVIDE POWER FOR ITEMS # 37, 38 & 39 INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)
38	1	MOBILE SERVING COUNTER	12.0 A	120V/1P	1440 VA	5-15R	3/4"C, 1#12, #12G, #12G	18"	TO LOAD CENTER IN ITEM # 37
39	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	3.8 A	120V/1P	456 VA	5-15R	3/4"C, 1#12, #12G, #12G	18"	TO LOAD CENTER IN ITEM # 37, INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)
40	1	MOBILE COLD PAN SERVING COUNTER WITH FOOD SHIELD	3.8 A	120V/1P	456 VA	5-15R	3/4"C, 1#12, #12G, #12G	18"	TO LOAD CENTER IN ITEM # 42, INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)
41	1	MOBILE SERVING COUNTER	12.0 A	120V/1P	1440 VA	5-15R	3/4"C, 1#12, #12G, #12G	18"	TO LOAD CENTER IN ITEM # 42
42	1	HOT SERVING COUNTER WITH FOOD SHIELD	25.1 A	208V/3P	9043 VA	L14-30R	1"C, 3#8, #8N, #10G	18"	(120/208V AT 3PHASE) (50 AMP BREAKER) LOAD CENTER PROVIDE POWER FOR ITEMS # 37, 38 & 39 INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)
43	1	SELF-SERVICE REFRIGERATED OPEN REACH-IN	20.0 A	208V/1P	4160 VA	6-20R	3/4"C, 2#10, #10G	18"	
46	2	MOBILE CASHIER STATION	7.3 A	120V/1P	880 VA	5-15R	3/4"C, 1#12, #12G, #12G	18"	
53	1	CABINET, HEATED, ROLL-THRU	7.3 A	208V/1P	1500 VA	DIRECT/JBOX	3/4"C, 2#12, #12G	90"	
54	1	REFRIGERATOR, ROLL-THRU	7.3 A	120V/1P	876 VA	5-15R	3/4"C, 1#12, #12G, #12G	90"	
56	1	MICROWAVE OVEN	13.0 A	120V/1P	1560 VA	5-15R	3/4"C, 1#12, #12G, #12G	48"	STUB DOWN, PROVIDE DROP-CORD WITH TWIST- LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)
59	2	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	45.7 A	208V/3P	16464 VA	DIRECT/JBOX	1"C, 3#6, #10G	18"	60AMPS BREAKER WITH SHUNT TRIP (REFER TO PANEL 'L1K' SCHEDULE) STUB OUT AT +18" AND +48" AFF (PROVIDE LOCAL 60A/3P DISCONNECT SWITCH, COORDINATE LOCATION WITH KITCHEN CONSULTANT)
61	2	OVEN-STEAMER, COMBINATION, BOILERLESS, ELECTRIC	45.7 A	208V/3P	16464 VA	DIRECT/JBOX	1"C, 3#6, #10G	18"	60AMPS BREAKER WITH SHUNT TRIP (REFER TO PANEL 'L1K' SCHEDULE) STUB OUT AT +18" AND +48" AFF (PROVIDE LOCAL 60A/3P DISCONNECT SWITCH, COORDINATE LOCATION WITH KITCHEN CONSULTANT)
64	2	EXHAUST HOOD W/ MAKE-UP AIR (TYPE-1)	15.0 A	120V/1P	1800 VA	DIRECT/JBOX	3/4"C, 1#12, #12G, #12G	48"	(2 @ 120V AT 15.0 AMPS EA.) STUB DOWN. LIGHT & FAN SWITCH BY ELEC. DIV. AUTOSTART/STOP FAN INTERLOCK. SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION AND DETAILS.
65	1	FIRE SUPPRESSION SYSTEM	2.0 A	120V/1P	240 VA	DIRECT/JBOX	3/4"C, 1#12, #12G, #12G	48"	STUB DOWN, CONDUIT RUN ABOVE CEILING. COORDINATE LOCATION OF FIRE SUPPRESSION MANUAL PULL STATION
74	1	DISPOSER WITH CONTROLS	12.1 A	208V/1P	2517 VA	DIRECT/JBOX	3/4"C, 2#12, #12G	18"	INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)
79	1	REFRIGERATOR, REACH-IN	9.2 A	120V/1P	1104 VA	5-15R	3/4"C, 1#12, #12G, #12G	86"	
900	1	CONVENIENCE RECEPTACLE	15.0 A	120V/1P	180 VA	REC	3/4"C, 1#12, #12G, #12G	18"	CONVENIENCE OUTLET STUB OUT WALL
901	3	CONVENIENCE RECEPTACLE	15.0 A	120V/1P	180 VA	REC	3/4"C, 1#12, #12G, #12G	48"	CONVENIENCE OUTLET STUB OUT WALL
902	2	CONVENIENCE RECEPTACLE	15.0 A	120V/1P	180 VA	REC	3/4"C, 1#12, #12G, #12G	18"	STUB DOWN DROP CORD BY ELECTRICAL DIVISION

GENERAL ELECTRICAL FOOD SERVICE NOTES:

1. ELECTRICAL PLANS SHOW EQUIPMENT NUMBERS WHICH CORRESPONDS TO EQUIPMENT SHOWN ON FOOD SERVICE DRAWINGS. REFER TO FOOD SERVICE PLANS FOR COMPLETE DESCRIPTION OF EQUIPMENT AND POWER REQUIREMENTS.
2. VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, NEMA RATINGS, ETC FOR ALL FOOD SERVICE EQUIPMENT PRIOR TO ROUGH-IN. DEVICE LOCATIONS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE. REFER TO FOOD SERVICE EQUIPMENT PLANS AND SHOP DRAWINGS FOR EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS.
3. FINNISH AND INSTALL DISCONNECT SWITCHES, INTERLOCKS, CONDUIT AND WIRING, AND INSTALL AS SPECIFICALLY OUTLINED WITHIN THE FOOD SERVICE CONSULTANT DRAWING.
4. FOR EQUIPMENT ITEM NOT PROVIDED WITH CORD AND PLUG CONNECTIONS, VERIFY THE QUIPMENT CONTAINS AN INTEGRAL EQUIPMENT POWER SWITCH. IF EQUIPMENT IS NOT PROVIDED WITH MANUAL SWITCH PROVIDE A WALL MOUNTED DISCONNECT SWITCH FOR THE EQUIPMENT.
5. ALL EQUIPMENT JUNCTION BOXES SHALL INCLUDE FINAL CONNECTION TO THEIR RESPECTIVE KITCHEN EQUIPMENT. VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER AND PROVIDE ALL NECESSARY ITEMS TO MEET THE QUIPMENTS ELECTRICAL INSTALLATION REQUIREMENTS.
6. PROVIDE LOCKABLE BREAKERS AT ELECTRICAL PANEL FOR PERMANETLY CONNECTED KITCHEN EQUIPMENT IN ACCORDANCE WITH NEC 110.25.



1 E-101B — ELECTRICAL FIRST FLOOR POWER PLAN - MODULE B
1/8" = 1'-0"

 # KEYNOTES

1. PROVIDE CONNECTION FOR AUDIO ENHANCEMENT EQUIPMENT. PROVIDE (3) 3/4"C UP TO AN ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH SUPPLIER AND OWNER PRIOR TO ROUGH IN.
2. PROVIDE DEDICATED, CEILING MOUNTED ELECTRICAL JUNCTION BOX FOR GARAGE DOOR OPERATOR. MOUNT BOX LOCATION COORDINATED WITH GARAGE DOOR OPERATOR MANUFACTURER. LABEL BOX CLEARLY FOR IDENTIFICATION. ENSURE ACCESSIBILITY FOR FUTURE MAINTENANCE. PROVIDE CONTROL STATION PER MANUFACTURER REQUIREMENTS.
3. ELECTRICAL CONTRACTOR TO PROVIDE PLYWOOD BACKBOARD AND GROUND BUSBAR FOR INSTALLATION OF NETWORK SWITCH PROVIDED BY OTHERS.
4. PROVIDE FAN SWITCH FOR ELECTRIC, BOILERLESS COMBINATION OVEN/STEAMER. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH CONSULTANT.
5. PROVIDE LIGHTING SWITCH FOR ELECTRIC, BOILERLESS COMBINATION OVEN/STEAMER. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH CONSULTANT.
6. PROVIDE TIME CLOCK AND RELAY PANEL FOR EXTERIOR LIGHTING CIRCUIT. EXTERIOR LIGHTS TO BE CONTROLLED AUTOMATICALLY BY THE TIME CLOCK AND THE PHOTOCELL.
7. PROVIDE HDMI, POWER AND NETWORK CONNECTION FOR TV. COORDINATE FINAL LOCATION/HEIGHT AND REQUIREMENT WITH OWNER.
8. PROVIDE POWER, HDMI AND DATA CONNECTION TO CEILING MOUNTED PROJECTOR. COORDINATE LOCATION AND CONTROL REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN. EC TO PROVIDE EPSON BRIGHLINK 760W WXGA 3LCD WITH ELPMB67 ADJUSTABLE CEILING MOUNTING BRACKET.
9. PROVIDE (1) HDMI, (1) CAT5A, PROJECTOR CONTROL SWITCH AND DUPLEX RECEPTACLE FROM WALLPLATE TO AV RACK. COORDINATE LOCATION AND REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.
10. PROVIDE LOCKABLE OUTLET COVER FOR EXTERIOR RECEPTACLE.
11. EC TO PROVIDE ROUGH-IN FOR OWNER PROVIDED CLOCK SYSTEM. COORDINATE FINAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
12. PROVIDE NEMA 14-30R. PROVIDE 3#10AWG CU, 1#10AWG CU GND IN 3/4"C FOR DRYER. COORDINATE FINAL REQUIREMENT WITH OWNER.
13. PROVIDE PULL STATION FOR ANSUL SYSTEM. COORDINATE LOCATION WITH FOOD SERVICE CONSULTANT AND AHJ.
14. PROVIDE (1) HDMI CORD AND (1) CAT 6 CABLE IN 1-1/2"C FROM BEHIND TO THE DISPLAY TO THE TEACHERS STATION.
15. PROVIDE POWER AND CONTROL FOR CEILING DOOR. COORDINATE REQUIREMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
16. RECESSED QUAD RECEPTACLE LOCATED IN RISER OF LEARNING STAIR. COORDINATE FINAL LOCATION WITH OWNER.
17. MICROWAVE OVEN LOCATED ABOVE SINK, MOUNTED 54 INCH ABOVE FINISHED FLOOR.
18. PROVIDE POWER CONNECTION TO ACCESS CONTROL DEVICE POWER SUPPPLY. COORDINATE REQUIREMENT WITH SECURITY CONTRACTOR.
19. PROVIDE A NEW ENLOSED SERVER RACK (APC NETSHELTER SX 42U SERVER RACK ENCLOSURE OR OWNER APPROVED EQUAL). ALL EXISTING TO REMAIN DATA DEVICES FROM DEMOLISHED DATA RACK LOCATED IN 'STORAGE 125A' TO BE REFED TO NEW DATA RACK.
20. PROVIDE POWER AND NETWORK CONNECTION FOR TV. COORDINATE FINAL LOCATION/HEIGHT AND REQUIREMENT WITH OWNER.
21. EC TO PROVIDE JUNCTION BOX AND CONNECTION FOR ELECTRICAL PLUMBING FIXTURES. COORDINATE WITH PLUMBING CONTRACTOR FOR FINAL LOCATION AND ADDITIONAL REQUIREMENTS.
22. APPROXIMATE LOCATION OF AV RACK (LOCATION TO BE BUILT INTO TREE). COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND CONSTRUCTION MANAGER. PROVIDE INTERFACE WITH FIRE ALARM SYSTEM TO MUTE SOUND IN CASE OF ALARM. PROVIDE (2) 2"C FOR OWNER PROVIDED SPEAKERS. CONFIRM SPEAKERS LOCATION WITH OWNER.

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE ALL NECESSARY ROUGH-INS FOR SECURITY EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH OWNER'S SECURITY VENDOR. VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDERS AND OWNER.
5. SECURITY DEVICES (CAMERAS, CARD READERS, ETC.) ARE OWNER PROVIDED. COORDINATE REQUIREMENT WITH OWNER PRIOR TO INSTALLATION.
6. COORDINATE FINAL SECURITY CAMERA LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. INSTALL WALL MOUNTED OUTLETS 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
8. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
9. ALL WALL RECEPTACLES ARE RECESSED MOUNTED.
10. ALL RECEPTACLES TO BE TAMPER RESISTANT RECEPTACLES PER NEC 406.12.
11. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.
12. COORDINATE ALL FINAL RECEPTACLE LOCATION WITH ARCHITECTURAL DRAWINGS, FINAL FURNITURE AND CASEWORK LAYOUTS, PRIOR TO ROUGH-IN.
13. PROVIDE DUAL DATA DROP FOR ALL WAP LOCATIONS.

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ELECTRICAL FIRST FLOOR POWER PLAN - MODULE B

E-101B

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
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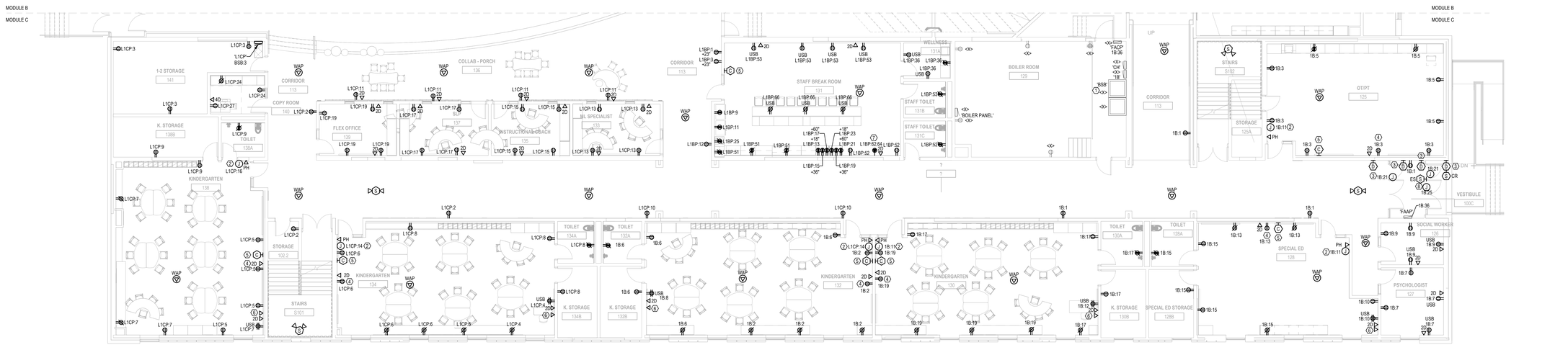
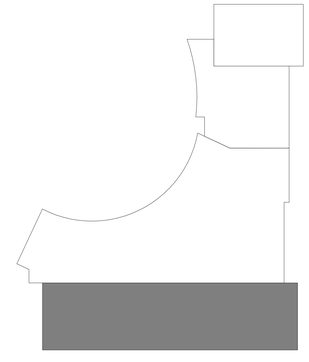
4. PROVIDE ALL NECESSARY ROUGH-INS FOR SECURITY EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH OWNER'S SECURITY VENDOR. VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDERS AND OWNER.
5. SECURITY DEVICES (CAMERAS, CARD READERS, ETC.) ARE OWNER PROVIDED. COORDINATE REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.
6. COORDINATE FINAL SECURITY CAMERA LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. INSTALL WALL MOUNTED OUTLETS 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
8. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
9. ALL WALL RECEPTACLES ARE RECESSED MOUNTED.
10. ALL RECEPTACLES TO BE TAMPER RESISTANT RECEPTACLES PER NEC 406.12.
11. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC-500.
12. COORDINATE ALL FINAL RECEPTACLE LOCATION WITH ARCHITECTURAL DRAWINGS, FINAL FURNITURE AND CASEWORK LAYOUTS, PRIOR TO ROUGH-IN.
13. PROVIDE DUAL DATA DROP FOR ALL WAP LOCATIONS.

#	KEYNOTES
1	APPROXIMATE LOCATION OF EXISTING SWITCH BOARD 'BSB'. REFER TO ONE-LINE DIAGRAMS ON SHEET E-301 FOR MORE INFORMATION. COORDINATE WITH OWNER AND UTILITY PROVIDER PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR.
2	PROVIDE CONNECTION FOR AUDIO ENHANCEMENT EQUIPMENT. PROVIDE (2) 3/4"C UP TO AN ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH SUPPLIER AND OWNER PRIOR TO ROUGH IN.
3	PROVIDE ELECTRICAL CONNECTION FOR AUTOMATIC DOOR. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL DOCUMENTS. COORDINATE ALL REQUIRED CONNECTIONS AND LOCATIONS WITH DOOR PROVIDER PRIOR TO ROUGH-INS.
4	PROVIDE HDMI, POWER AND NETWORK CONNECTION FOR TV. COORDINATE FINAL LOCATION/HEIGHT AND REQUIREMENT WITH OWNER.
5	EC TO PROVIDE ROUGH-IN FOR OWNER PROVIDED CLOCK SYSTEM. COORDINATE FINAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
6	PROVIDE (1) HDMI CORD AND (1) CAT 6 CABLE IN 1-1/2"C FROM BEHIND TO THE DISPLAY TO THE TEACHERS STATION.
7	PROVIDE 208V SINGLE PHASE OUTLET FOR PRINTER. COORDINATE REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.
8	PROVIDE POWER CONNECTION TO ACCESS CONTROL DEVICE POWER SUPPPLY. COORDINATE REQUIREMENT WITH SECURITY CONTRACTOR.



1 E-101C — ELECTRICAL FIRST FLOOR POWER PLAN - MODULE C

1/8" = 1'-0"



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ELECTRICAL FIRST FLOOR POWER PLAN - MODULE C

E-101C

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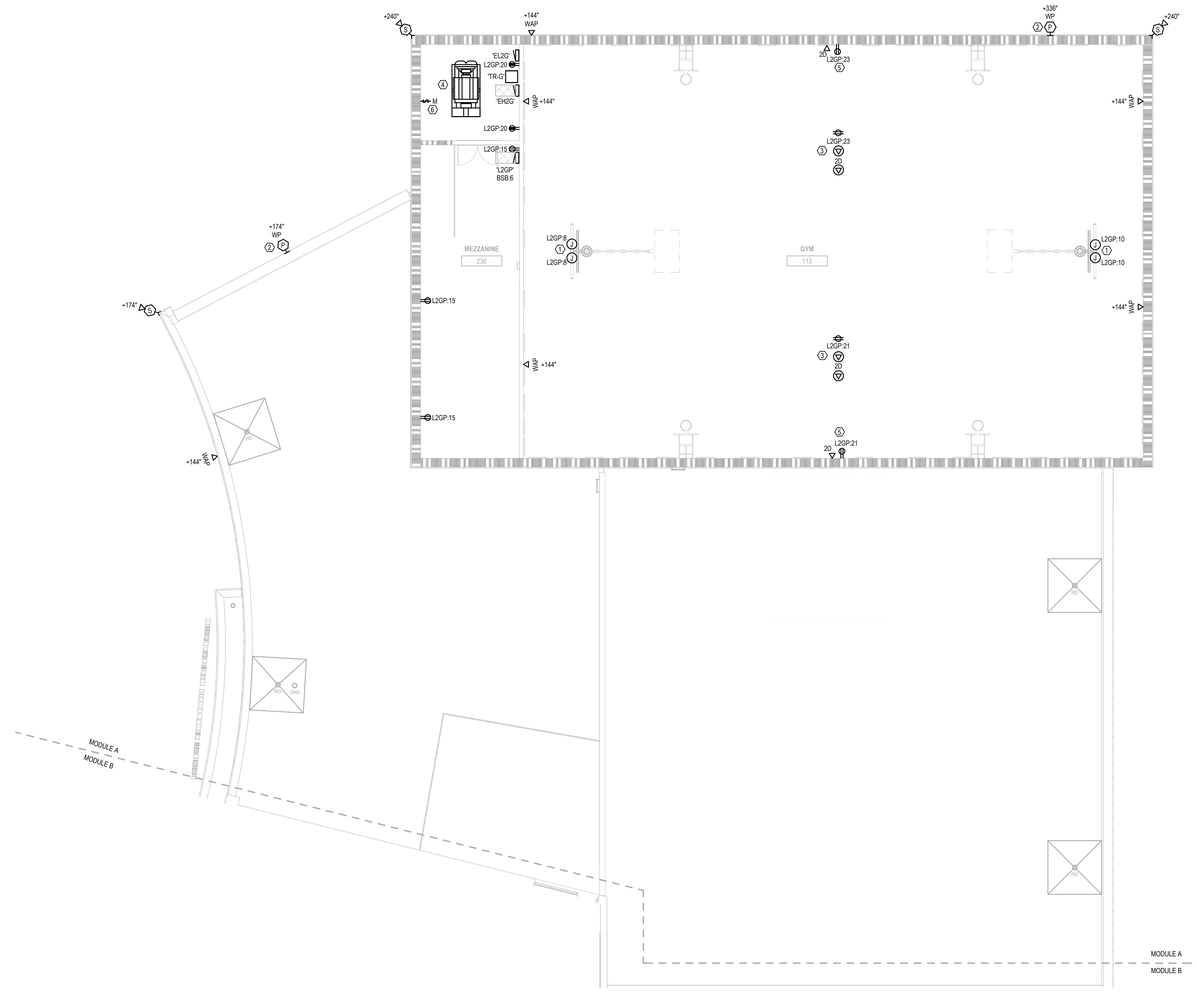
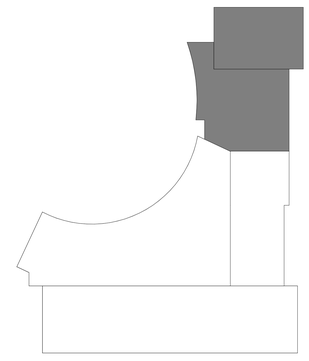


1 E-102A ELECTRICAL SECOND FLOOR POWER PLAN - MODULE A

1/8" = 1'-0"

N



GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE ALL NECESSARY ROUGH-INS FOR SECURITY EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH OWNER'S SECURITY VENDOR. VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDERS AND OWNER.
5. SECURITY DEVICES (CAMERAS, CARD READERS, ETC.) ARE OWNER PROVIDED. COORDINATE REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.
6. COORDINATE FINAL SECURITY CAMERA LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. INSTALL WALL MOUNTED OUTLETS 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
8. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
9. ALL WALL RECEPTACLES ARE RECESSED MOUNTED.
10. ALL RECEPTACLES TO BE TAMPER RESISTANT RECEPTACLES PER NEC 406.12.
11. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC-500.
12. COORDINATE ALL FINAL RECEPTACLE LOCATION WITH ARCHITECTURAL DRAWINGS, FINAL FURNITURE AND CASEWORK LAYOUTS, PRIOR TO ROUGH-IN.
13. PROVIDE DUAL DATA DROP FOR ALL WAP LOCATIONS.

 # KEYNOTES

1 EC TO PROVIDE CONTROL PANEL FOR BASKETBALL HOOP HOIST AND HEIGHT ADJUSTER. COORDINATE FINAL LOCATION AND REQUIREMENT WITH OWNER AND SYSTEM SUPPLIER PRIOR TO ROUGH-IN.

2 EC TO PROVIDE ROUGH-IN FOR PAGING SPEAKER. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH PROVIDER AND OWNER.

3 PROVIDE (1) HDMI CORD AND (1) CAT 6 CABLE IN 1-1/2"C FROM LU SYSTEM TO CONTROL LOCATION. COORDINATE FINAL REQUIREMENT AND LOCATION WITH OWNER.

4 PROVIDE CONNECTION TO GENERATOR BATTERY CHARGER AND BLOCK HEATER. COORDINATE FINAL SIZE OF EACH CIRCUIT WITH GENERATOR MANUFACTURER.

5 PROVITE POWER AND DATA OUTLETS FOR LU SYSTEM HEART MODULE. COORDINATE LOCATION AND REQUIREMENT WITH SYSTEM VENDOR PRIOR TO ROUGH-IN.

6 EC TO PROVIDE POWER CONNECTION WITH MOTORIZED DAMPER. EC TO COORDINATE REQUIREMENT WITH GENERATOR SUPPLIER AND MECHANICAL CONTRACTOR.

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ELECTRICAL SECOND FLOOR POWER PLAN - MODULE A

E-102A

BIDDING



1 E-102B — ELECTRICAL SECOND FLOOR POWER PLAN - MODULE B

1/8" = 1'-0"

N

#	KEYNOTES
1	PROVIDE CONNECTION FOR AUDIO ENHANCEMENT EQUIPMENT. PROVIDE (2) 3/4"C UP TO AN ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH SUPPLIER AND OWNER PRIOR TO ROUGH IN.
2	PROVIDE DEDICATED, CEILING MOUNTED ELECTRICAL JUNCTION BOX FOR GARAGE DOOR OPERATOR. MOUNT BOX LOCATION COORDINATED WITH GARAGE DOOR OPERATOR MANUFACTURER. LABEL BOX CLEARLY FOR IDENTIFICATION. ENSURE ACCESSIBILITY FOR FUTURE MAINTENANCE. PROVIDE CONTROL STATION PER MANUFACTURER REQUIREMENTS.
3	APPROXIMATE LOCATION OF NEW MAIN SWITCH BOARD 'MSB'. REFER TO ONE-LINE DIAGRAMS ON SHEET E-301 FOR MORE INFORMATION. COORDINATE WITH OWNER AND UTILITY PROVIDER PRIOR TO COMMENCEMENT OF WORK. COORDINATE WORK WITH CIVIL CONTRACTOR.
4	PROVIDE HDMI, POWER AND NETWORK CONNECTION FOR TV. COORDINATE FINAL LOCATION/HEIGHT AND REQUIREMENT WITH OWNER.
5	PROVIDE (1) 3/4"C FOR POWER AND (1) 1"C FOR DATA, ROUTED AS SHOWN TO ACCESSIBLE FULL HEIGHT WALL. COORDINATE FINAL LOCATION WITH CONSTRUCTION MANAGER.
6	EC TO PROVIDE ROUGH-IN FOR OWNER PROVIDED CLOCK SYSTEM. COORDINATE FINAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
7	PROVIDE (1) HDMI CORD AND (1) CAT 6 CABLE IN 1-1/2"C FROM BEHIND TO THE DISPLAY TO THE TEACHERS STATION.
8	RECESSED QUAD RECEPTACLE LOCATED IN RISER OF LEARNING STAIR. COORDINATE FINAL LOCATION WITH OWNER.
9	PROVIDE POWER AND CONTROL FOR COILING DOOR. COORDINATE REQUIREMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
10	PROVIDE 4" LEGRAND POKE-THRU DEVICE. PROVIDE (2) DUPLEX RECEPTACLES. COORDINATE EXACT LOCATION AND REQUIREMENT WITH FURNITURE VENDOR AND CONSTRUCTION MANAGER.

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
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3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
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5. SECURITY DEVICES (CAMERAS, CARD READERS, ETC.) ARE OWNER PROVIDED. COORDINATE REQUIREMENT WITH OWNER PRIOR TO ROUGH-IN.
6. COORDINATE FINAL SECURITY CAMERA LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. INSTALL WALL MOUNTED OUTLETS 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
8. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND FINAL FIXTURE LOCATIONS.
9. ALL WALL RECEPTACLES ARE RECESSED MOUNTED.
10. ALL RECEPTACLES TO BE TAMPER RESISTANT RECEPTACLES PER NEC 406.12.
11. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.
12. COORDINATE ALL FINAL RECEPTACLE LOCATION WITH ARCHITECTURAL DRAWINGS, FINAL FURNITURE AND CASEWORK LAYOUTS, PRIOR TO ROUGH-IN.
13. PROVIDE DUAL DATA DROP FOR ALL WAP LOCATIONS.

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ELECTRICAL SECOND FLOOR POWER PLAN - MODULE B

E-102B

BIDDING

GENERAL NOTES:

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3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
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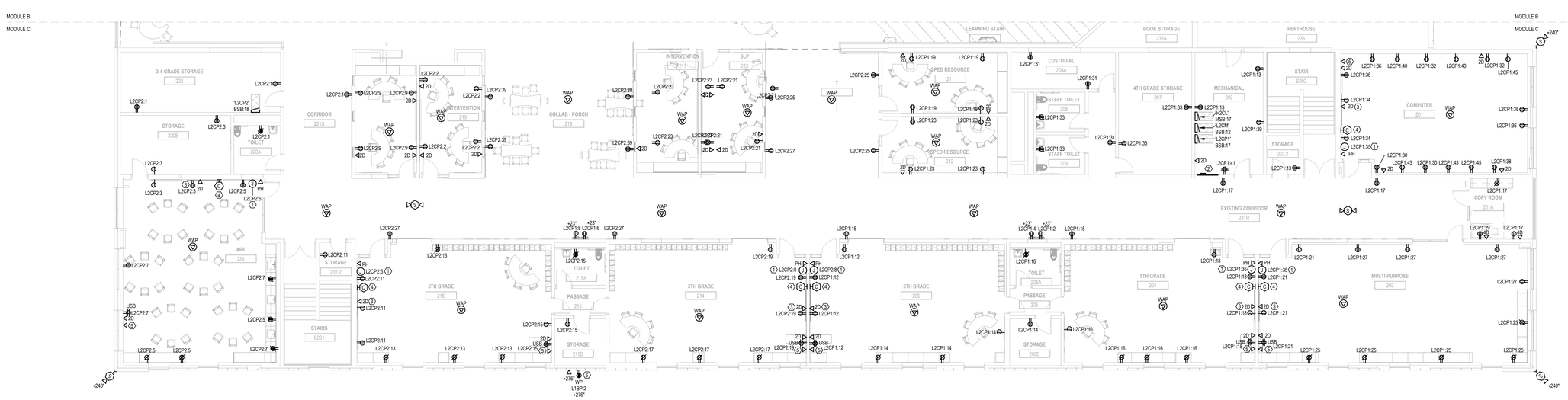
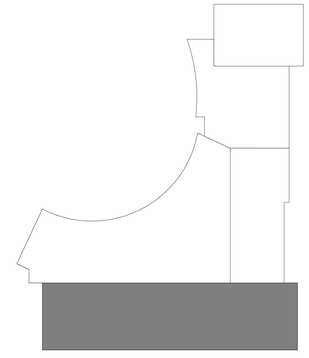
13. PROVIDE DUAL DATA DROP FOR ALL WAP LOCATIONS.

#	KEYNOTES
1	PROVIDE CONNECTION FOR AUDIO ENHANCEMENT EQUIPMENT. PROVIDE (2) 3/4"C UP TO AN ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH SUPPLIER AND OWNER PRIOR TO ROUGH IN.
2	ELECTRICAL CONTRACTOR TO PROVIDE PLYWOOD BACKBOARD AND GROUND BUSBAR FOR INSTALLATION OF NETWORK SWITCH PROVIDED BY OTHERS.
3	PROVIDE HDMI, POWER AND NETWORK CONNECTION FOR TV. COORDINATE FINAL LOCATION/HEIGHT AND REQUIREMENT WITH OWNER.
4	EC TO PROVIDE ROUGH-IN FOR OWNER PROVIDED CLOCK SYSTEM. COORDINATE FINAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
5	PROVIDE (1) HDMI CORD AND (1) CAT 6 CABLE IN 1-1/2"C FROM BEHIND TO THE DISPLAY TO THE TEACHERS STATION.
6	PROVIDE POWER AND DATA FOR MARQUEE SIGN. COORDINATE FINAL LOCATION WITH CIVIL CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION.



1 E-102C ELECTRICAL SECOND FLOOR POWER PLAN - MODULE C

1/8" = 1'-0"



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PROJECT NUMBER	224150.00
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DRAWN BY	CM
REVIEWED BY	NI

ELECTRICAL SECOND FLOOR POWER PLAN - MODULE C

E-102C

BIDDING

GENERAL NOTES:

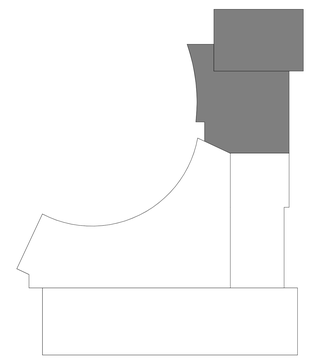
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

 # KEYNOTES

1 EXHAUST FAN TO BE CONTROLLED WITH LIGHTING. PROVIDE AND INSTALL A POWER RELAY (RIB2402B OR EQUIVALENT) FOR INTERFACE BETWEEN LIGHTING CIRCUIT AND FAN CIRCUIT. COORDINATE CONNECTIONS IN THE FIELD.
2 UNIT TO BE PROVIDED WITH FACTORY INSTALLED DISCONNECT SWITCH.
3 PROVIDE 120/24V TRANSFORMER FOR VAV AND CORRESPONDING CONTROL VALVE. REFER TO SHEET M-101A FOR MORE DETAILS.
4 PROVIDE 1P MOTOR RATED DISCONNECT SWITCH FOR AIR COMPRESSOR AC-1. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION AND REQUIREMENT.



1 / E-103A — ELECTRICAL FIRST FLOOR MECHANICAL COORDINATION PLAN - MODULE A
1/8" = 1'-0"



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REVIEWED BY	NI

ELECTRICAL FIRST FLOOR MECHANICAL COORDINATION PLAN - MODULE A

E-103A

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

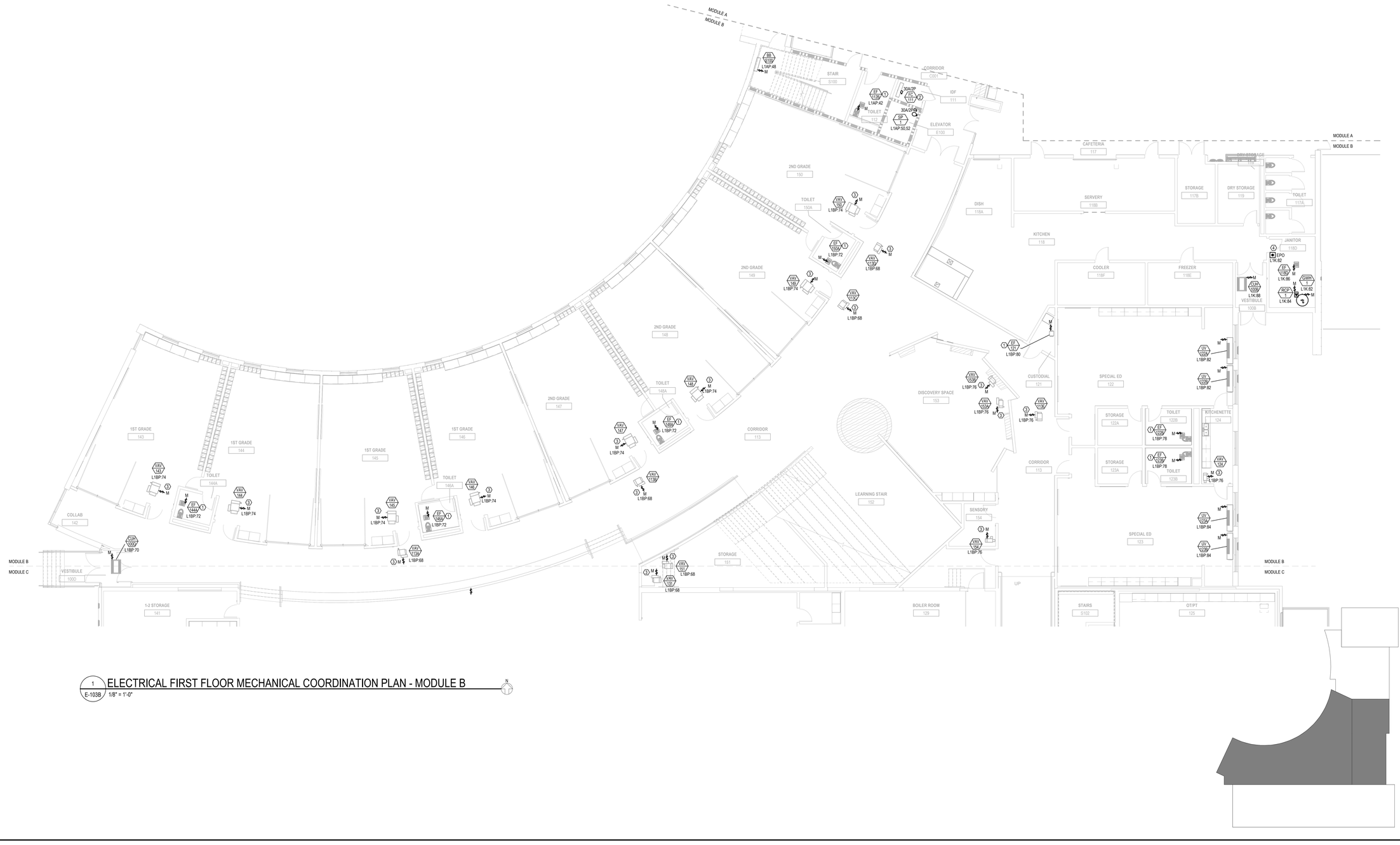
 # KEYNOTES

1 EXHAUST FAN TO BE CONTROLLED WITH LIGHTING. PROVIDE AND INSTALL A POWER RELAY (RIB2402B OR EQUIVALENT) FOR INTERFACE BETWEEN LIGHTING CIRCUIT AND FAN CIRCUIT. COORDINATE CONNECTIONS IN THE FIELD.

2 INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT. PROVIDE NECESSARY CONNECTIONS BETWEEN THE TWO UNITS PER MANUFACTURER'S INSTALLATION DOCUMENTS.

3 PROVIDE 120/24V TRANSFORMER FOR VAV AND CORRESPONDING CONTROL VALVE. REFER TO SHEET M-101B FOR MORE DETAILS.

4 EMERGENCY SHUT-OFF FOR GAS WATER HEATER. COORDINATE REQUIREMENT WITH MECHANICAL CONTRACTOR.



1 E-103B ELECTRICAL FIRST FLOOR MECHANICAL COORDINATION PLAN - MODULE B

1/8" = 1'-0"

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ELECTRICAL FIRST FLOOR MECHANICAL COORDINATION PLAN - MODULE B

E-103B

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

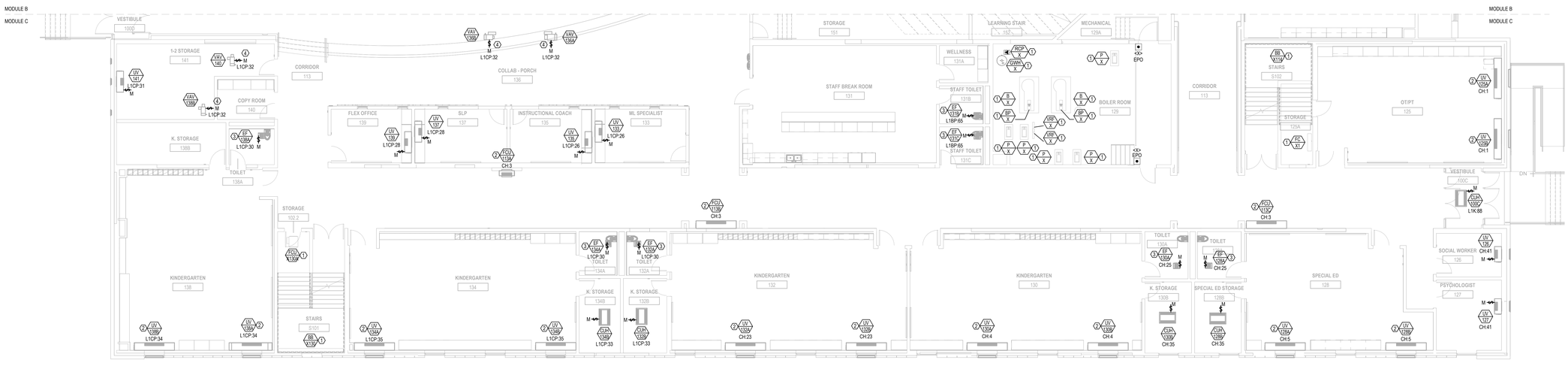
 # KEYNOTES

1 MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. EC TO MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.

2 MECHANICAL EQUIPMENT IS EXISTING TO BE RELOCATED AND BE RELABELED. REFER TO MECHANICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT RENAMING.

3 EXHAUST FAN TO BE CONTROLLED WITH LIGHTING. PROVIDE AND INSTALL A POWER RELAY (RIB24ZB OR EQUIVALENT) FOR INTERFACE BETWEEN LIGHTING CIRCUIT AND FAN CIRCUIT. COORDINATE CONNECTIONS IN THE FIELD.

4 PROVIDE 120/24V TRANSFORMER FOR VAV AND CORRESPONDING CONTROL VALVE. REFER TO SHEET M-101C FOR MORE DETAILS.



1 E-103C — ELECTRICAL FIRST FLOOR MECHANICAL COORDINATION PLAN - MODULE C

1/8" = 1'-0"

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ELECTRICAL FIRST FLOOR MECHANICAL COORDINATION PLAN - MODULE C

E-103C

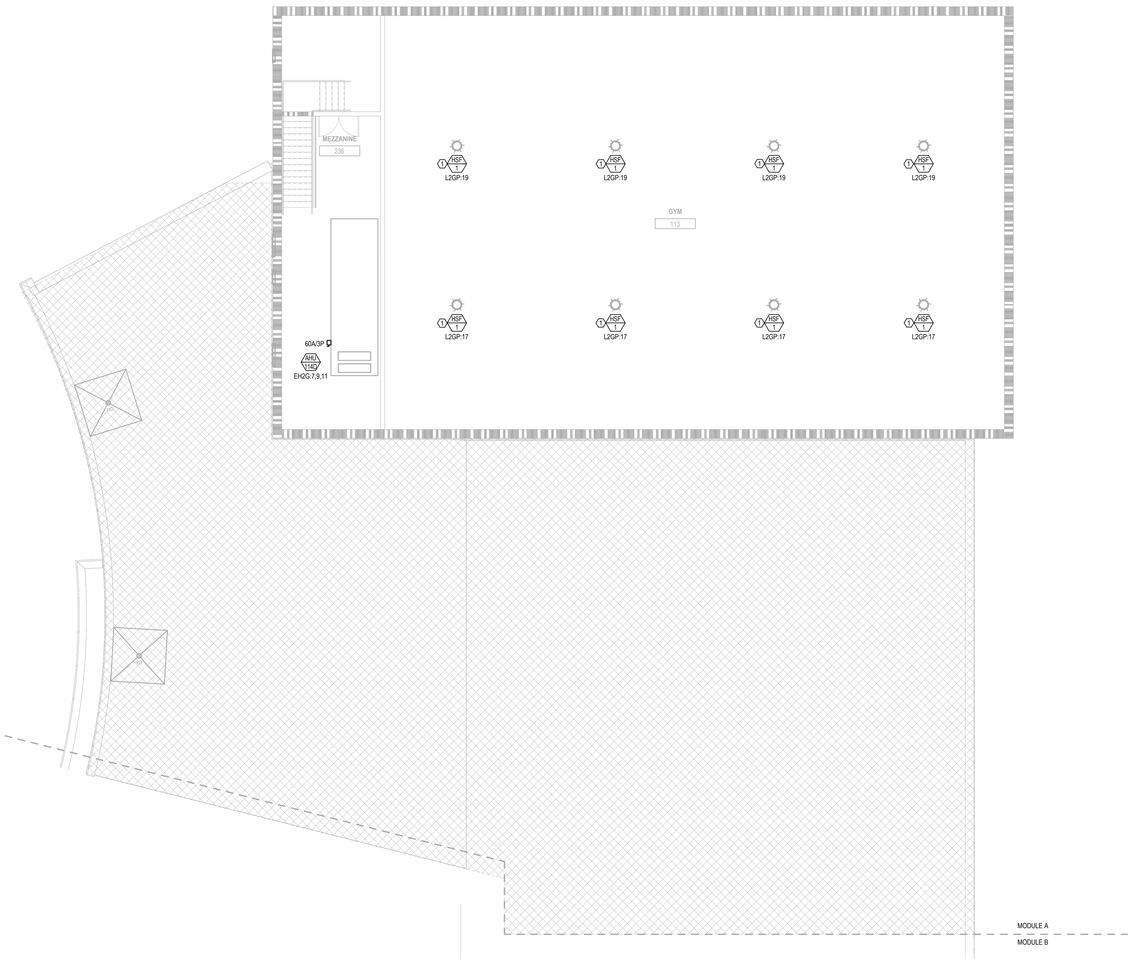
BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

**KEYNOTES**

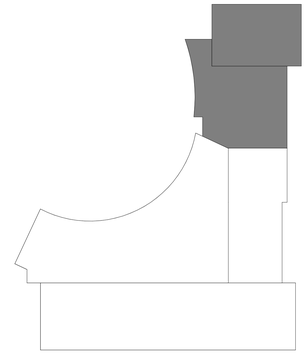
1 HIGH SPEED FANS TO SHUT OFF UPON SPRINKLER WATER FLOW.



1 / E-104A ELECTRICAL SECOND FLOOR MECHANICAL COORDINATION PLAN - MODULE A

1/8" = 1'-0"

N



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ELECTRICAL SECOND FLOOR MECHANICAL COORDINATION PLAN - MODULE A

E-104A

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

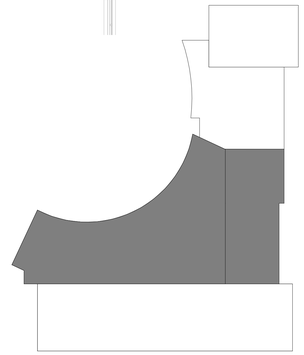
 # KEYNOTES

1. EXHAUST FAN TO BE CONTROLLED WITH LIGHTING. PROVIDE AND INSTALL A POWER RELAY (RIB2402B OR EQUIVALENT) FOR INTERFACE BETWEEN LIGHTING CIRCUIT AND FAN CIRCUIT. COORDINATE CONNECTIONS IN THE FIELD.
2. PROVIDE JUNCTION BOX, 15A/1P LOCKABLE FUSED DISCONNECT & DEDICATED CIRCUIT FOR ELEVATOR CAB LIGHTING.
3. PROVIDE DISCONNECT SWITCH FOR ELEVATOR EQUIPMENT. REFER TO NEW ONE LINE DIAGRAM 2/E-301 FOR DISCONNECT SIZE AND MORE INFORMATION.
4. INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT. PROVIDE NECESSARY CONNECTIONS BETWEEN THE TWO UNITS PER MANUFACTURER'S INSTALLATION DOCUMENTS.
5. PROVIDE 120/24V TRANSFORMER FOR VAV AND CORRESPONDING CONTROL VALVE. REFER TO SHEET M-102B FOR MORE DETAILS.
6. PROVIDE 120V TO THE GAS SOLENOID VALVE ON MAIN INCOMING GAS LINE FOR THE BOILERS. VALVE SHOULD BE ELECTRICALLY HELD OPEN, FAIL CLOSED. WHEN ENERGIZED, VALVE SHALL BE HELD IN 100% OPEN POSITION. UPON LOSS OF POWER, VALVES SHOULD SPRING CLOSED. PROVIDE EMERGENCY STOP SWITCH TO INTERRUPT POWER TO THIS CIRCUIT IF PRESSED. THE EMERGENCY SWITCH SHOULD BE LOCATED BY THE BOILER, BETWEEN 6FT AND 7FT ABOVE THE FLOOR, AND SHALL BE PAINTED RED AND CLEARLY LABELED "EMERGENCY FUEL BURNER SWITCH". ALSO PROVIDE HEAT DETECTOR (SET TO A MAXIMUM OF 212 DEGREES FAHRENHEIT), LOCATED ABOVE THE BOILERS AND WIRED TO FIRE ALARM SYSTEM. A SIGNAL FROM THE HEAT DETECTOR SHALL BE CAPABLE OF INTERRUPTING THE POWER TO GAS SOLENOID VALVE CIRCUIT AND TRIGGERING FIRE ALARM SYSTEM.
7. VARIABLE FREQUENCY DRIVES (VFD) PROVIDED WITH MECHANICAL EQUIPMENT. ELECTRICAL CONTRACTOR TO MAKE ALL NECESSARY CONNECTIONS.



1 E-104B ELECTRICAL SECOND FLOOR MECHANICAL COORDINATION PLAN - MODULE B

1/8" = 1'-0"



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ELECTRICAL SECOND FLOOR MECHANICAL COORDINATION PLAN - MODULE B

E-104B

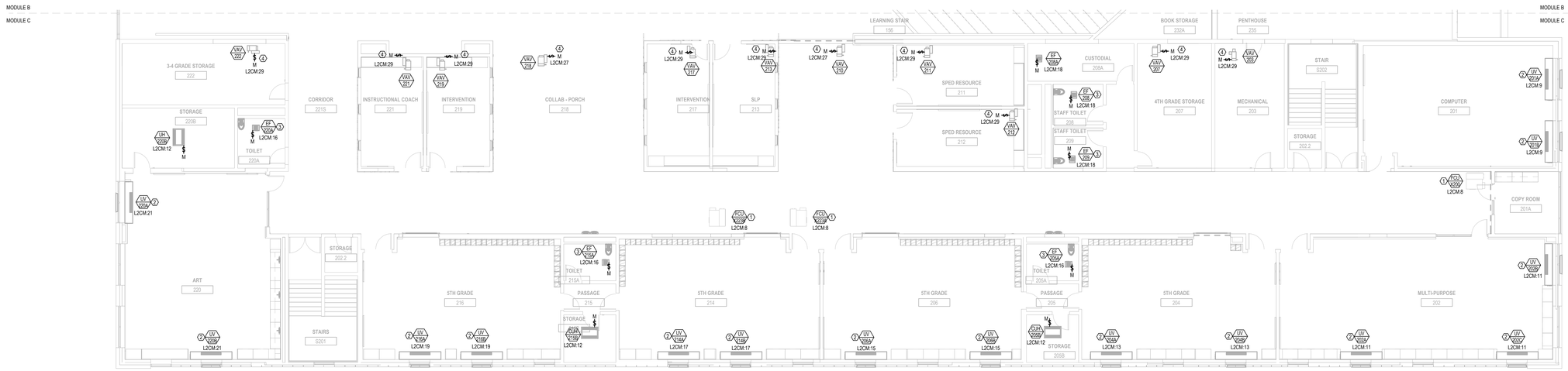
BIDDING

GENERAL NOTES:

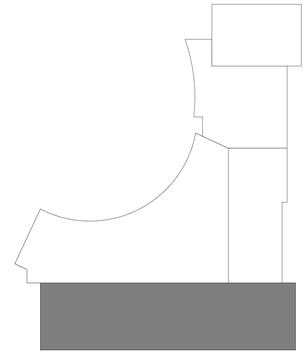
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

 # KEYNOTES

1 MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. MODIFY AND EXTEND CONDUIT AS NESSARY FOR NEW PANEL CONNECTION.
2 MECHANICAL EQUIPMENT IS EXISTING TO BE RELOCATED AND BE RELABELED. REFER TO MECHANICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT RENAMING.
3 EXHAUST FAN TO BE CONTROLLED WITH LIGHTING. PROVIDE AND INSTALL A POWER RELAY (RIB24028 OR EQUIVALENT) FOR INTERFACE BETWEEN LIGHTING CIRCUIT AND FAN CIRCUIT. COORDINATE CONNECTIONS IN THE FIELD.
4 PROVIDE 120/24V TRANSFORMER FOR VAV AND CORRESPONDING CONTROL VALVE. REFER TO SHEET M-102C FOR MORE DETAILS.



1 ELECTRICAL SECOND FLOOR MECHANICAL COORDINATION PLAN - MODULE C
E-104C 1/8" = 1'-0"



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ELECTRICAL SECOND FLOOR MECHANICAL COORDINATION PLAN - MODULE C

E-104C

BIDDING

GENERAL NOTES:

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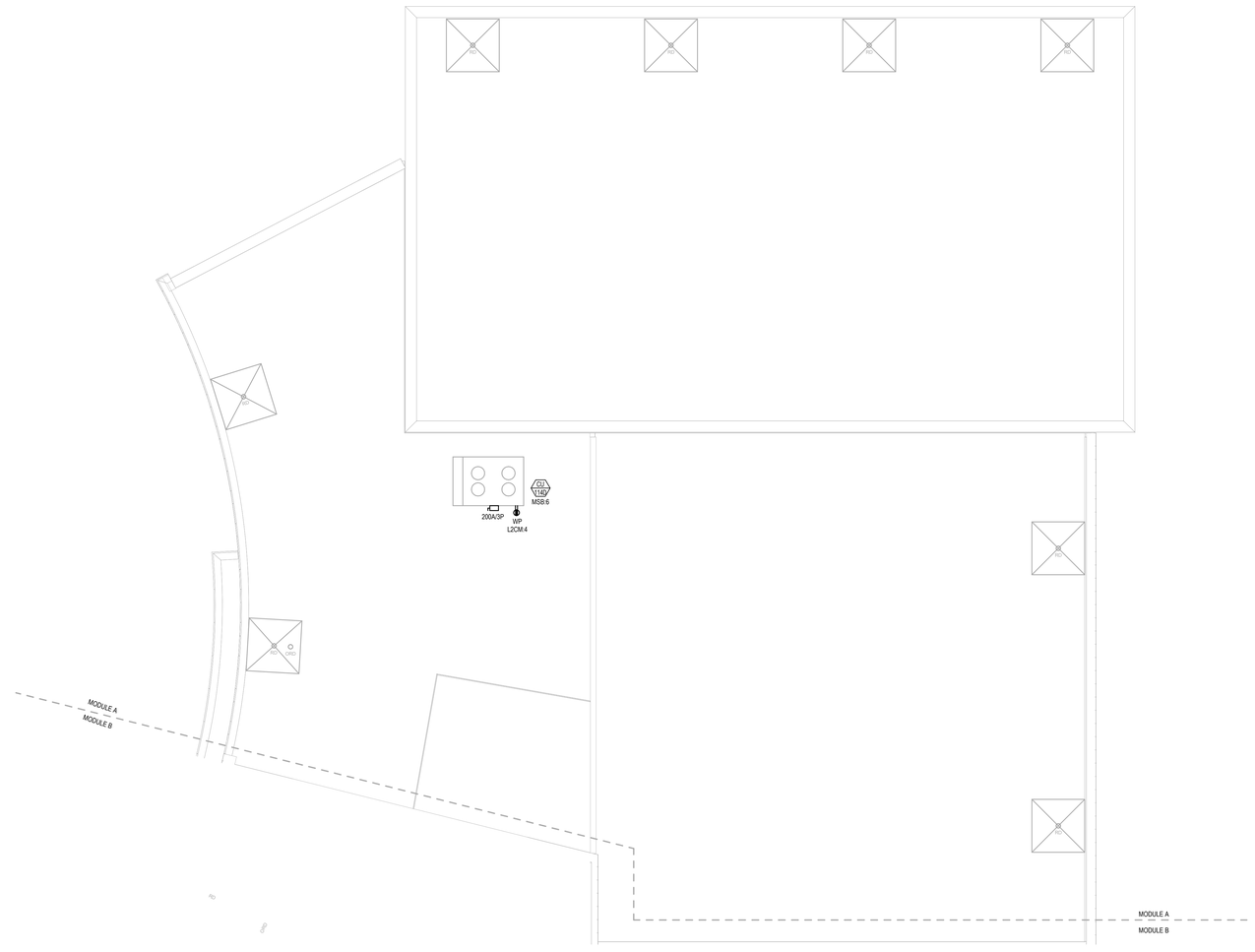
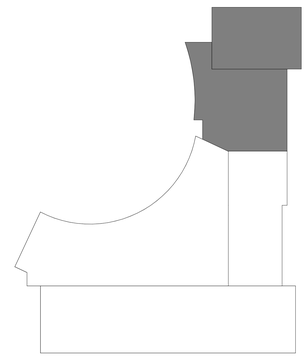


1 / E-105A ELECTRICAL ROOF PLAN - MODULE A

1/8" = 1'-0"

N



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PROJECT NUMBER	224150.00
DATE OF ISSUE	10/22/2025
DRAWN BY	CM
REVIEWED BY	NI

ELECTRICAL ROOF PLAN - MODULE A

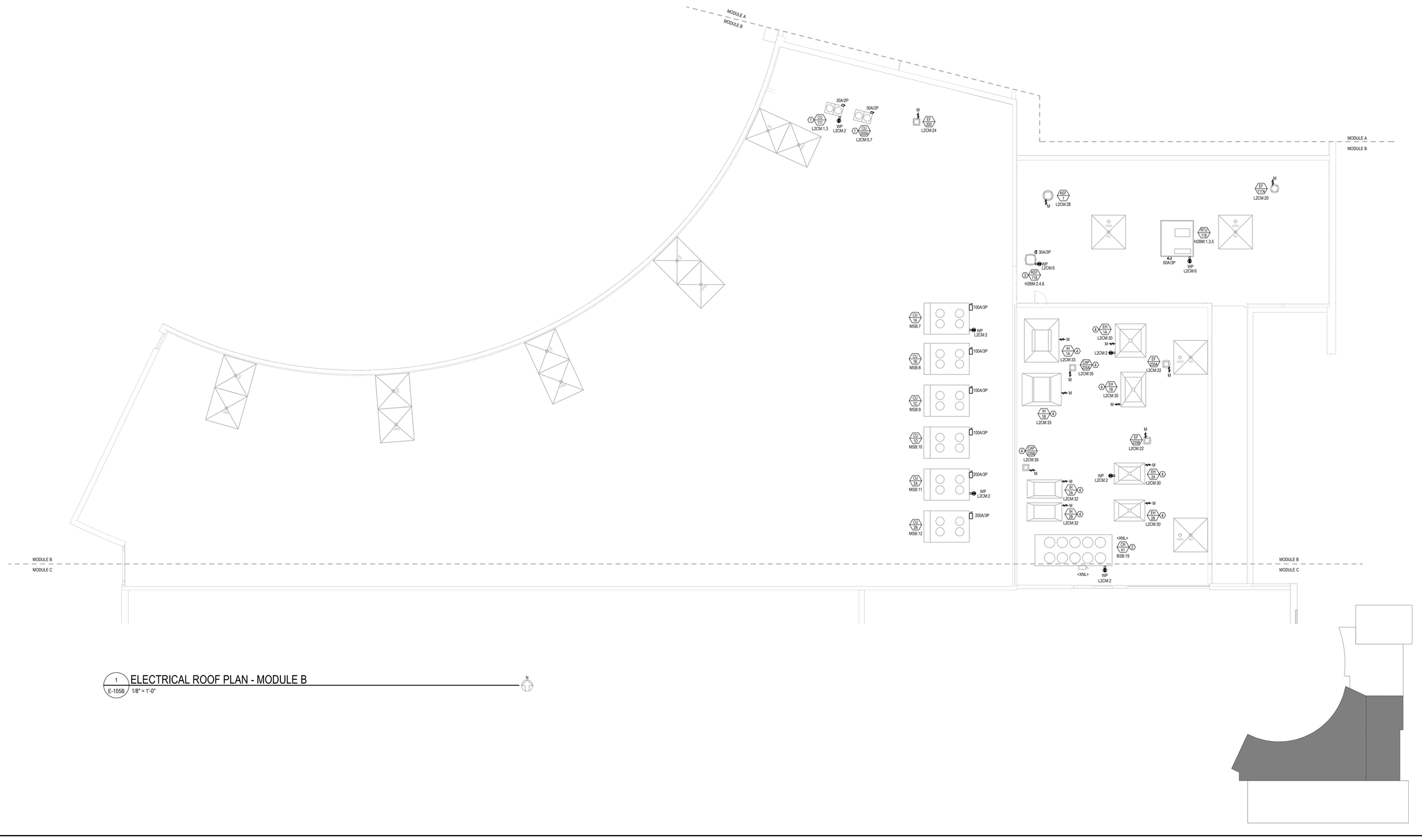
E-105A

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

#	KEYNOTES
1	INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT. PROVIDE NECESSARY CONNECTIONS BETWEEN THE TWO UNITS PER MANUFACTURER'S INSTALLATION DOCUMENTS.
2	MECHANICAL EQUIPMENT IS EXISTING IN NEW LOCATION. EC TO RE-CONNECT TO EXISTING POWER CONNECTIONS AND REUSE ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS. EC TO COORDINATE WITH GC, MC, AND OWNER FOR EXISTING IN NEW LOCATION DISCONNECT SWITCH. REFER TO ED-103 FOR EXISTING TO BE RELOCATED.
3	KEF-118 TO BE SHUNT TRIPPED WHEN ANSUL PULLSTATION IS ACTIVATED. REFER TO 1/E-101B KITCHEN 118 FOR ANSUL PULLSTAION LOCATION.
4	PROVIDE POWER CONNECTION TO MOTORIZED DAMPER. COORDINATE REQUIREMENT AND LOCATION OF DAMPERS WITH MECHANICAL DRAWINGS.



1 / E-105B ELECTRICAL ROOF PLAN - MODULE B

1/8" = 1'-0"

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REVIEWED BY	NI

ELECTRICAL ROOF PLAN - MODULE B

E-105B

BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-302 FOR FEEDER, GROUND & CONDUIT SIZES.
5. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

 # KEYNOTES

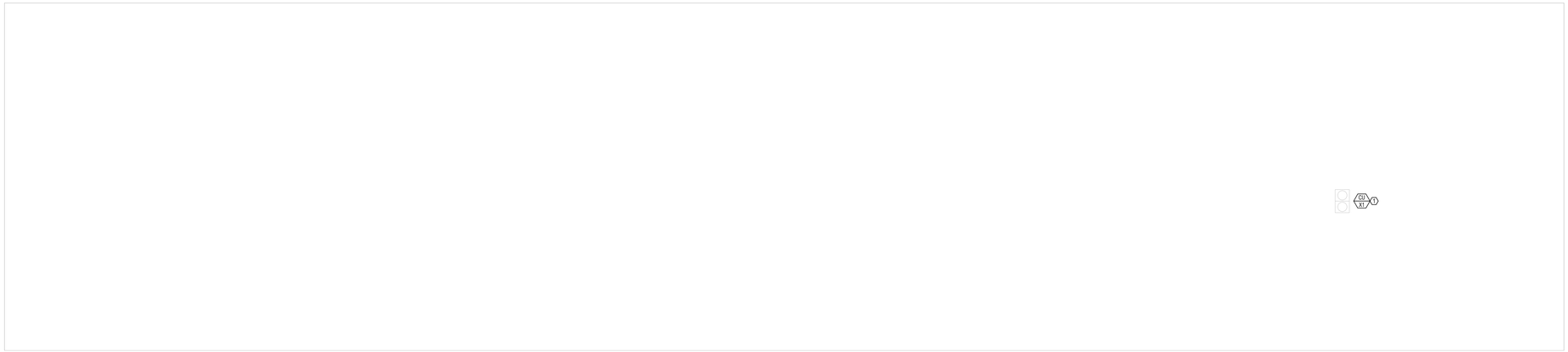
1 MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. EC TO MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.

MODULE B
MODULE C

MODULE B
MODULE C

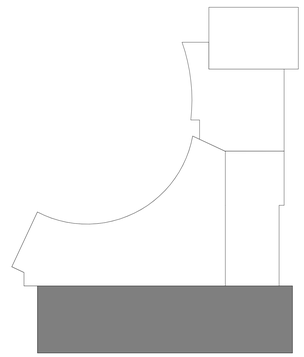
MODULE B
MODULE C

MODULE B
MODULE C



1 E-105C ELECTRICAL ROOF PLAN - MODULE C
1/8" = 1'-0"

N



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REVIEWED BY	NI

ELECTRICAL ROOF PLAN - MODULE C

E-105C

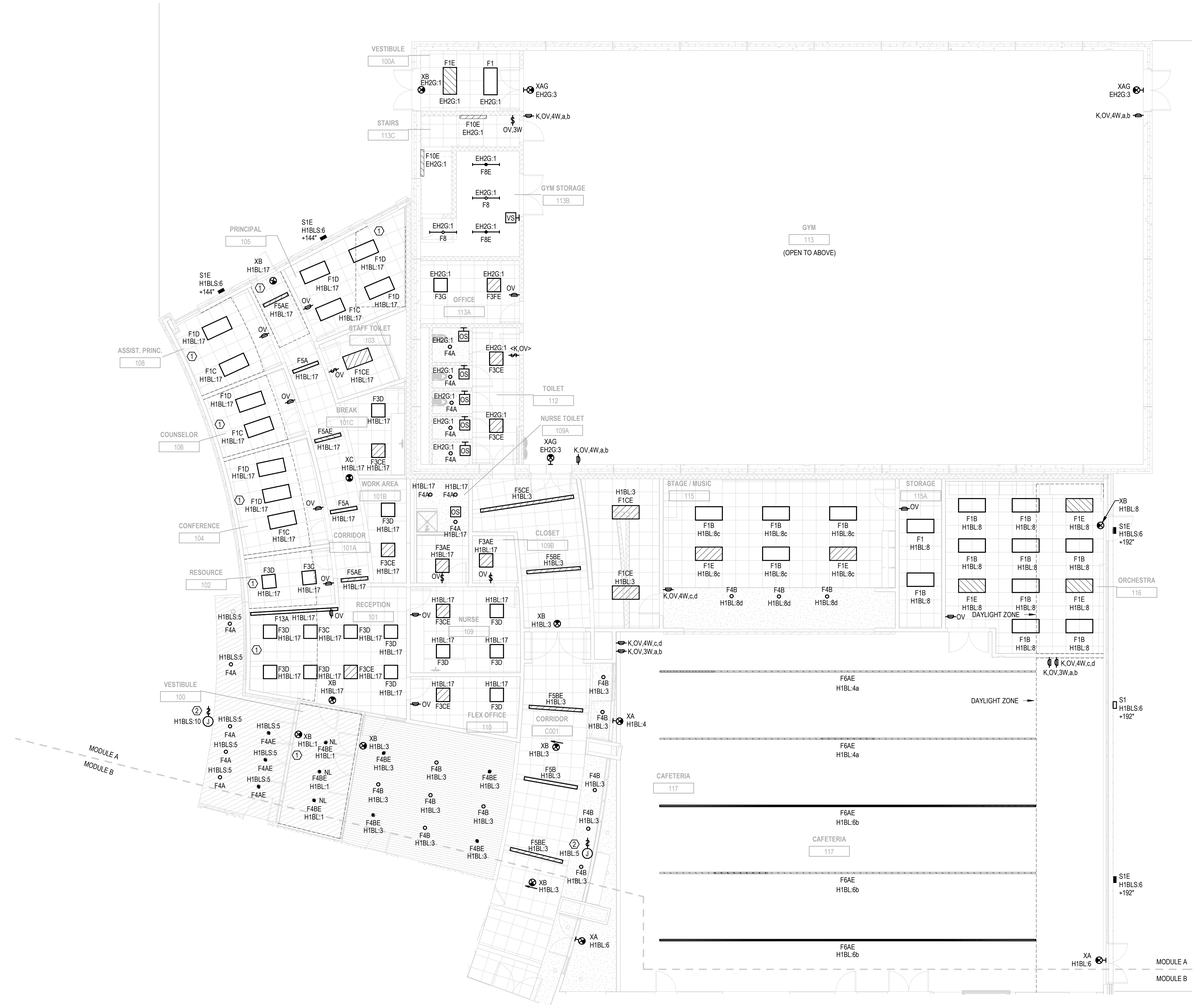
BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES ARE SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
5. FOR ALL OCCUPANCY SENSORS, PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM, INCLUDING ALL OCCUPANCY SENSORS, POWER PACKS, WALL OVERRIDE SWITCHES, RELAYS, ETC.
6. FIXTURES MARKED WITH NL TO BE NIGHT LIGHT FIXTURES. FIXTURE TO BE POWERED AHEAD OF LOCAL CONTROLS. IN AREAS USING DIMMING CONTROLS, PROVIDE THE NECESSARY RELAYS FOR THE FIXTURE TO DIM WITH THE LOCAL CONTROLS AND TURN ON WHEN THE ROOM LIGHTS ARE TURNED OFF.
7. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

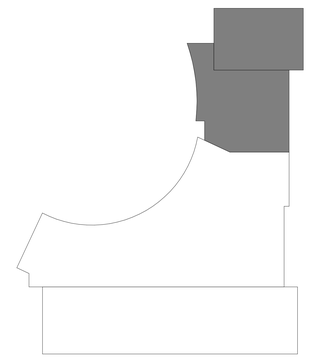
 # KEYNOTES

1. AREA IS EXEMPT FROM DAYLIGHT CONTROLS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE.
2. EC TO PROVIDE POWER AND DISCONNECTION MEAN FOR BACKLIT SCHOOL SIGN (PROVIDED BY OTHERS). COORDIANTE EXACT REQUIREMENT AND HEIGHT WITH SUPPLIER PRIOR TO ROUGH-IN.



1 / E-201A ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE A

1/8" = 1'-0"



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ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE A

E-201A

BIDDING

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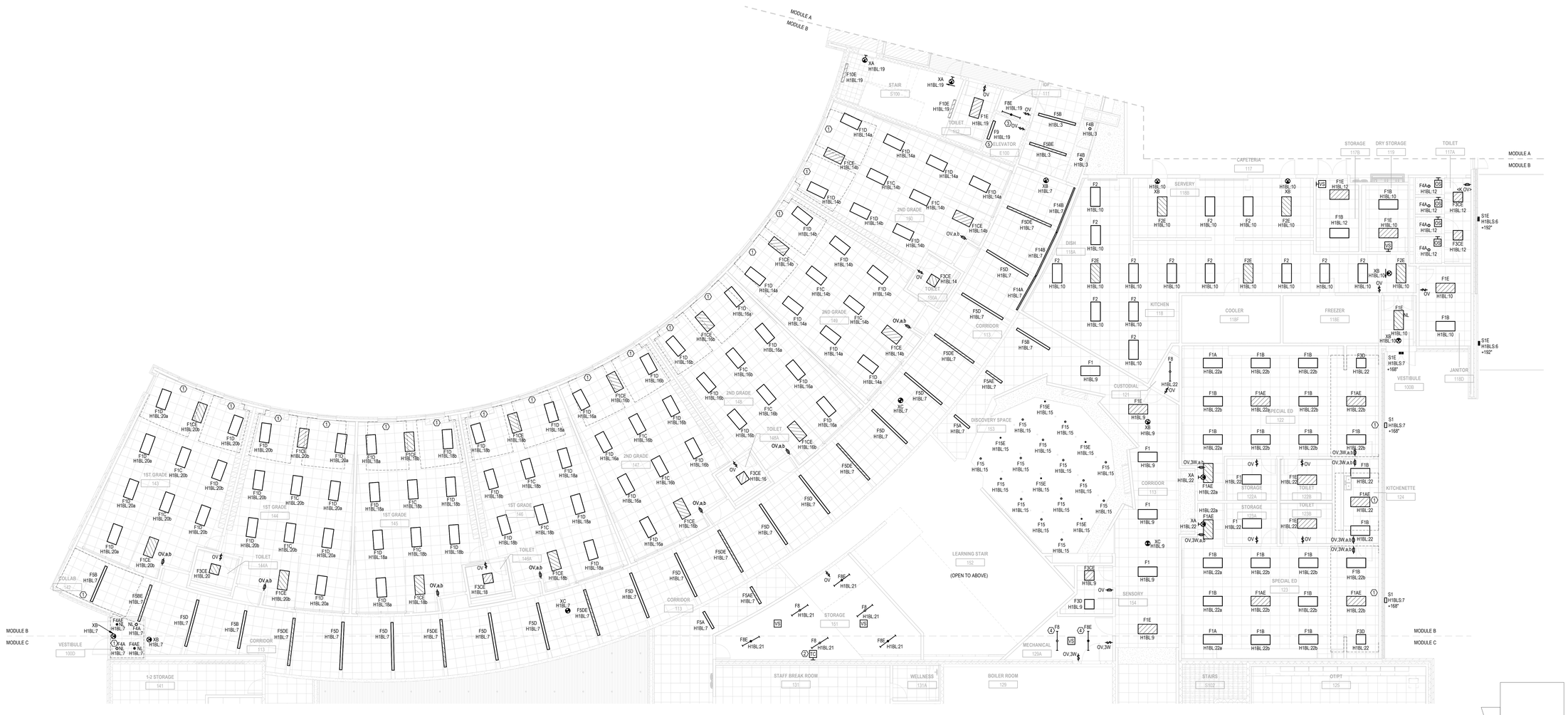
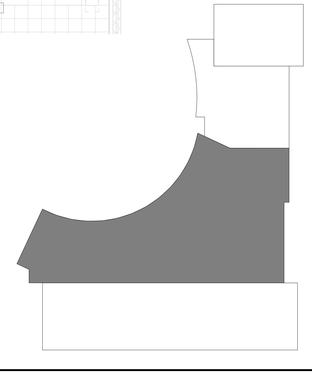
6. FIXTURES MARKED WITH NL TO BE NIGHT LIGHT FIXTURES. FIXTURE TO BE POWERED AHEAD OF LOCAL CONTROLS. IN AREAS USING DIMMING CONTROLS, PROVIDE THE NECESSARY RELAYS FOR THE FIXTURE TO DIM WITH THE LOCAL CONTROLS AND TURN ON WHEN THE ROOM LIGHTS ARE TURNED OFF.
7. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

 # KEYNOTES

1. AREA IS EXEMPT FROM DAYLIGHT CONTROLS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE.
2. PROVIDE A TOUCHSCREEN SCENE CONTROLLER, PASSWORD PROTECTED. THE SYSTEM SHALL BE NLIGHT UNITOUCH OR APPROVED EQUAL. REFER TO E-302 FOR LIGHTING CONTROL PANEL SCHEDULE AND MORE INFORMATION.
3. PROVIDE WIRE AND PIT STOP SWITCH. PROVIDE 3/4"C & 2#12 WIRING TO SWITCH.
4. LIGHT FIXTURE TO BE CIRCUITED TO LOCAL EXISTING BOILER ROOM 129 CIRCUIT.
5. EC TO PROVIDE ADDITIONAL (1) F9 FIXTURE AT PIT LEVEL AND TIE INTO H1BL 19 CIRCUIT.



1 E-201B ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE B
1/8" = 1'-0"



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ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE B

E-201B

BIDDING

GENERAL NOTES:

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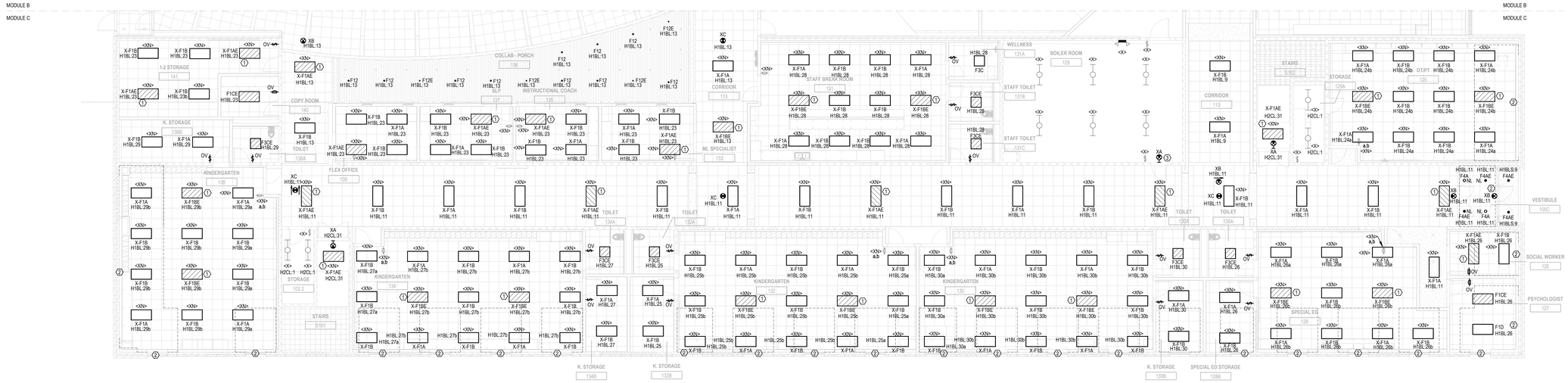
6. FIXTURES MARKED WITH NL TO BE NIGHT LIGHT FIXTURES. FIXTURE TO BE POWERED AHEAD OF LOCAL CONTROLS. IN AREAS USING DIMMING CONTROLS, PROVIDE THE NECESSARY RELAYS FOR THE FIXTURE TO DIM WITH THE LOCAL CONTROLS AND TURN ON WHEN THE ROOM LIGHTS ARE TURNED OFF.
7. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

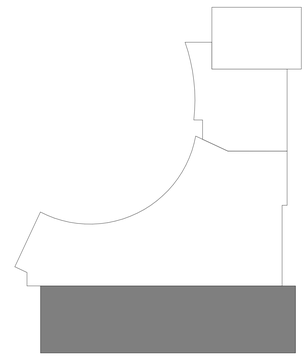
**KEYNOTES**

1 INSTALL E10WLCP BATTERY PACK ON EXISTING LIGHTING FIXTURE. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH LIGHTING SUPPLIER.
2 AREA IS EXEMPT FROM DAYLIGHT CONTROLS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE.
3 LIGHT FIXTURE TO BE CIRCUITED TO LOCAL EXISTING BOILER ROOM 129 CIRCUIT.

MODULE B
MODULE C



1 / E-201C — ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE C
1/8" = 1'-0"



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ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE C

E-201C

BIDDING

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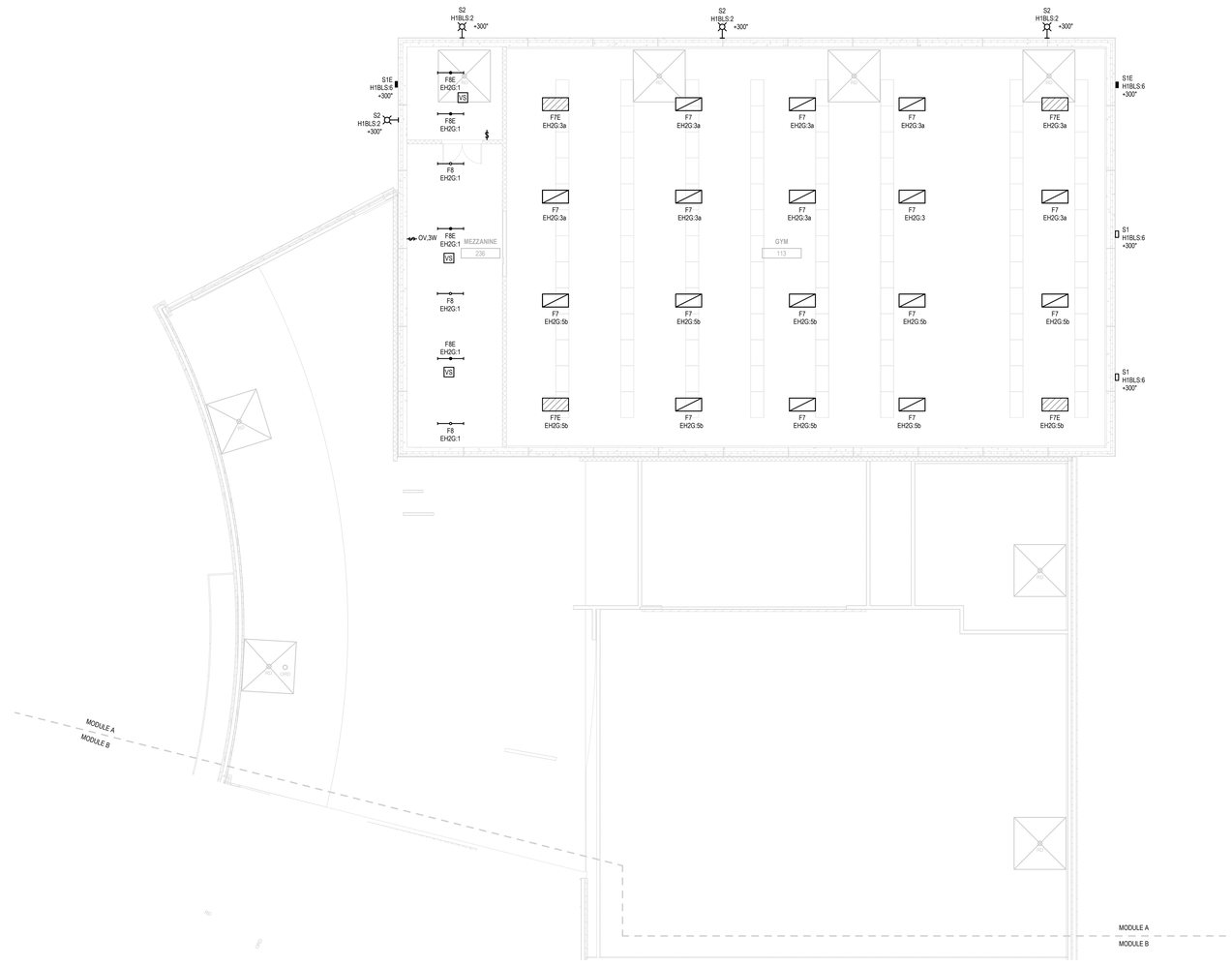
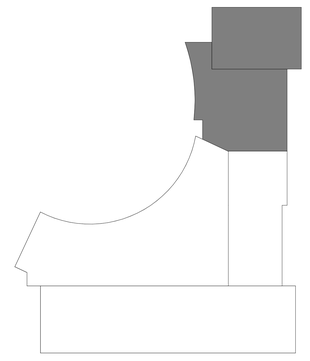


1 / E-202A ELECTRICAL SECOND FLOOR LIGHTING PLAN - MODULE A

1/8" = 1'-0"

N



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ELECTRICAL SECOND FLOOR LIGHTING PLAN - MODULE A

E-202A

BIDDING

GENERAL NOTES:

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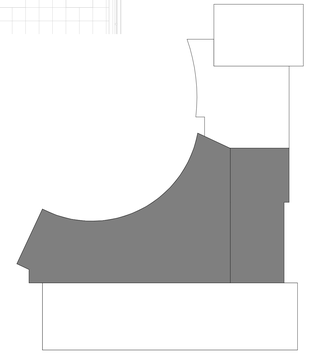
6. FIXTURES MARKED WITH NL TO BE NIGHT LIGHT FIXTURES. FIXTURE TO BE POWERED AHEAD OF LOCAL CONTROLS. IN AREAS USING DIMMING CONTROLS, PROVIDE THE NECESSARY RELAYS FOR THE FIXTURE TO DIM WITH THE LOCAL CONTROLS AND TURN ON WHEN THE ROOM LIGHTS ARE TURNED OFF.
7. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

 # KEYNOTES

1. AREA IS EXEMPT FROM DAYLIGHT CONTROLS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE.
2. FIXTURE TO BE MOUNTED IN LEAF. REFER TO ARCHITECTURAL DRAWINGS.
3. EC TO COORDINATE PENTHOUSE 235 PENDANT LIGHTS AND SENSORS WITH FINAL MECHANICAL DUCTING LAYOUT PRIOR TO COMMENCEMENT OF WORK.



1 ELECTRICAL SECOND FLOOR LIGHTING PLAN - MODULE B
E-202B 1/8" = 1'-0"



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ELECTRICAL SECOND FLOOR LIGHTING PLAN - MODULE B

E-202B

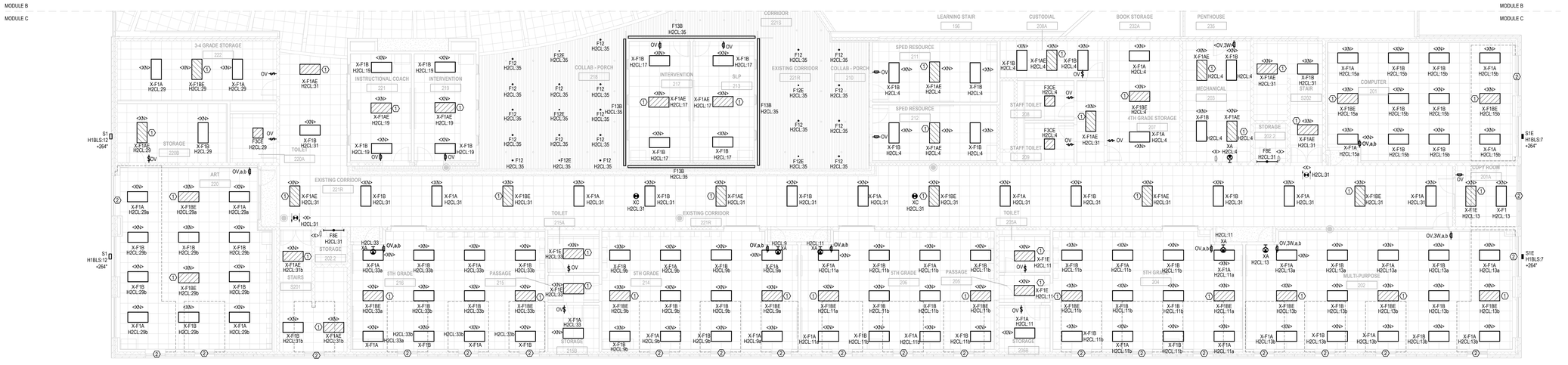
BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ALL DEVICES ARE SHOWN ARE NEW UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
5. FOR ALL OCCUPANCY SENSORS, PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM, INCLUDING ALL OCCUPANCY SENSORS, POWER PACKS, WALL OVERRIDE SWITCHES, RELAYS, ETC.
6. FIXTURES MARKED WITH NL TO BE NIGHT LIGHT FIXTURES. FIXTURE TO BE POWERED AHEAD OF LOCAL CONTROLS. IN AREAS USING DIMMING CONTROLS, PROVIDE THE NECESSARY RELAYS FOR THE FIXTURE TO DIM WITH THE LOCAL CONTROLS AND TURN ON WHEN THE ROOM LIGHTS ARE TURNED OFF.
7. CONDUIT PENETRATION INTO STORM SHELTER SHOULD NOT EXCEED 1-1/2"C PER ICC 500.

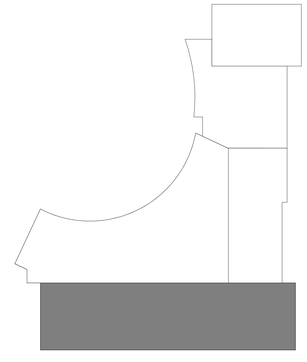
 # KEYNOTES

1. INSTALL E10WLCP BATTERY PACK ON EXISTING LIGHTING FIXTURE. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH LIGHTING SUPPLIER.
2. AREA IS EXEMPT FROM DAYLIGHT CONTROLS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE.



1 E-202C — ELECTRICAL SECOND FLOOR LIGHTING PLAN - MODULE C

1/8" = 1'-0"



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DATE

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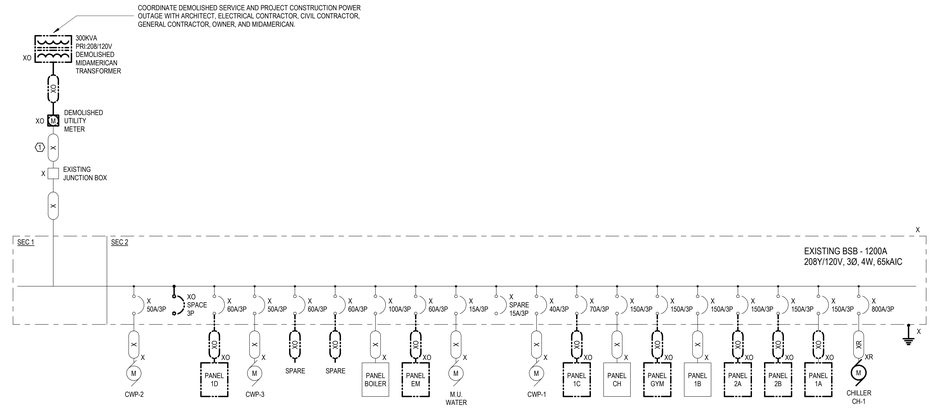
DRAWN BY	CM
REVIEWED BY	NI

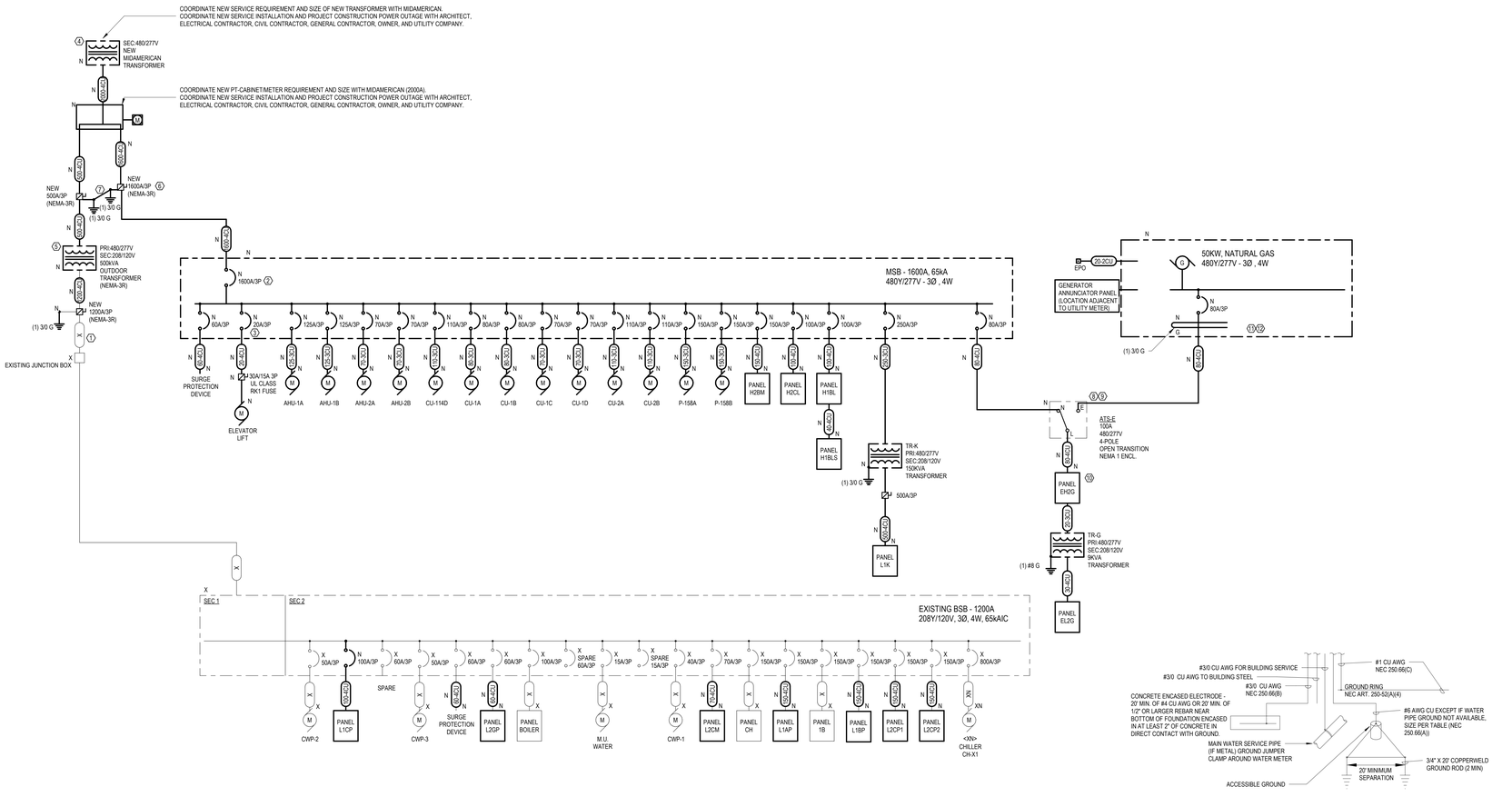
ELECTRICAL SECOND FLOOR LIGHTING PLAN - MODULE C

E-202C

BIDDING



1 E-301 DEMOLITION ONE LINE DIAGRAM
SCALE: N.T.S.



2 E-301 NEW ONE LINE DIAGRAM
1" = 1'-0"

3 E-301 GROUNDING DETAIL
SCALE: N.T.S.

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR PROJECT SPECIFICATIONS.
3. ONE LINES ARE SHOWN FOR REFERENCE ONLY AND ARE BASED ON AS-BUILT DOCUMENTATION AND CONDITIONS READILY VISIBLE TO THE ENGINEER ON SITE. FIELD VERIFY INFORMATION SHOWN AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

 # KEYNOTES

1 EC TO MODIFY AND EXTEND EXISTING CONDUIT AS NECASSARY FOR RECONNECTION OF NEW METER TO EXISTING CT-CABINET. REFER TO E-301 ONE-LINE DIAGRAMS AND DETAILS FOR MORE INFORMATION.
2 PROVIDE MAIN CIRCUIT BREAKER WITH ARC ENERGY REDUCTION PER NEC 240.87.
3 COORDINATE WITH ELEVATOR/FIRE ALARM CONTRACTORS. SHUNT TRIP CIRCUIT BREAKER SHALL INTERLOCK WITH FIRE ALARM SYSTEM TO SHUT DOWN ELEVATOR UPON ACTIVATION OF THE ELEVATOR HEAT DETECTOR. REFER TO 4/E-000 FOR MORE INFORMATION.
4 PROVIDE CONCRETE PAD FOR ELECTRICAL EQUIPMENT. COORDINATE REQUIREMENT AND SIZE WITH MIDAMERICAN.
5 PROVIDE CONCRETE PAD FOR ELECTRICAL EQUIPMENT. COORDINATE REQUIREMENT AND SIZE WITH TRANSFOREMER SUPPLIER.
6 PROVIDE WITH ARC ENERGY REDUCTION PER NEC 240.87, AND GFCI PROTECTED PER NEC 230.95.
7 SERVICES GROUNDS TO BE BONDED TOGETHER PER NEC 250.58.
8 PROVIDE CONCRETE HOUSEKEEPING PAD FOR ELECTRICAL EQUIPMENT.
9 ATS IS FOR EMERGENCY LOADS ONLY AND SHALL HAVE PRIORITY OVER AUTOMATIC TRANSFER SWITCHES FOR OPTIONAL STANDBY LOADS. PROVIDE CABLING TO ESTABLISH COMMUNICATIONS, LOAD PRIORITY, DELAY TRANSFER, AND LOAD SHEDDING. PROVIDE ALL NECESSARY COMPONENTS AND PROGRAMMING FOR A COMPLETE AND OPERABLE SYSTEM.
10 PROVIDE RED ENGRAVED NAMEPLATE WITH WHITE LETTERS TO READ, "PANELBOARD IS RESERVED FOR EMERGENCY LOADS ONLY. CONNECTION OF OTHER LOADS TO THIS PANELBOARD IS PROHIBITED."
11 PROVIDE INTEGRAL SURGE PROTECTIVE DEVICE (SPD).
12 NEUTRAL AND GROUND SHALL BE BONDED AT THIS POINT.

FEEDER SCHEDULE

TAG	SETS	CURRENT CARRYING CONDUCTORS	GROUND	CONDUIT
20-2 CU	1	2#12	1#12	3/4"
20-3 CU	1	3#12	1#12	3/4"
20-4 CU	1	4#12	1#12	3/4"
25-2 CU	1	2#10	1#10	3/4"
25-3 CU	1	3#10	1#10	3/4"
25-4 CU	1	4#10	1#10	3/4"
30-2 CU	1	2#10	1#10	3/4"
30-3 CU	1	3#10	1#10	3/4"
30-4 CU	1	4#10	1#10	3/4"
35-2 CU	1	2#8	1#10	3/4"
35-3 CU	1	3#8	1#10	3/4"
35-4 CU	1	4#8	1#10	3/4"
40-2 CU	1	2#8	1#10	3/4"
40-3 CU	1	3#8	1#10	3/4"
40-4 CU	1	4#8	1#10	3/4"
45-2 CU	1	2#8	1#10	3/4"
45-3 CU	1	3#8	1#10	3/4"
45-4 CU	1	4#8	1#10	3/4"
50-2 CU	1	2#8	1#10	3/4"
50-3 CU	1	3#8	1#10	3/4"
50-4 CU	1	4#8	1#10	3/4"
60-2 CU	1	2#6	1#10	3/4"
60-3 CU	1	3#6	1#10	1"
60-4 CU	1	4#6	1#10	1"
70-2 CU	1	2#4	1#8	1"
70-3 CU	1	3#4	1#8	1"
70-4 CU	1	4#4	1#8	1-1/4"
80-2 CU	1	2#4	1#8	1-1/4"
80-3 CU	1	3#4	1#8	1-1/4"
80-4 CU	1	4#4	1#8	1-1/4"
90-2 CU	1	2#3	1#8	1-1/4"
90-3 CU	1	3#3	1#8	1-1/4"
90-4 CU	1	4#3	1#8	1-1/4"
100-2 CU	1	2#1	1#6	1-1/2"
100-3 CU	1	3#1	1#6	1-1/2"
100-4 CU	1	4#1	1#6	1-1/2"
110-3 CU	1	3#1	1#6	1-1/2"
110-4 CU	1	4#1	1#6	1-1/2"
125-3 CU	1	3#1	1#6	1-1/2"
125-4 CU	1	4#1	1#6	1-1/2"
150-3 CU	1	3#1/0	1#6	1-1/2"
150-4 CU	1	4#1/0	1#6	1-1/2"
175-3 CU	1	3#2/0	1#6	2"
175-4 CU	1	4#2/0	1#6	2"
200-3 CU	1	3#3/0	1#6	2"
200-4 CU	1	4#3/0	1#6	2"
225-3 CU	1	3#4/0	1#4	2"
225-4 CU	1	4#4/0	1#4	2-1/2"
250-3 CU	1	3#250	1#4	2-1/2"
250-4 CU	1	4#250	1#4	2-1/2"
300-3 CU	1	3#350	1#4	2-1/2"
300-4 CU	1	4#350	1#4	3"
350-3 CU	1	3#400	1#3	3"
350-4 CU	1	4#400	1#3	3"
400-3 CU	2	3#3/0	1#3	2"
400-4 CU	2	4#3/0	1#3	2-1/2"
450-3 CU	2	3#4/0	1#2	2"
450-4 CU	2	4#4/0	1#2	2-1/2"
500-3 CU	2	3#250	1#2	2-1/2"
500-4 CU	2	4#250	1#2	2-1/2"
600-3 CU	2	3#350	1#1	2-1/2"
600-4 CU	2	4#350	1#1	3"
700-3 CU	2	3#500	1#1/0	3"
700-4 CU	2	4#500	1#1/0	3-1/2"
800-3 CU	2	3#500	1#1/0	3"
800-4 CU	2	4#500	1#1/0	3-1/2"
900-3 CU	3	3#350	1#2/0	2-1/2"
900-4 CU	3	4#350	1#2/0	3"
1000-3 CU	3	3#400	1#2/0	3"
1000-4 CU	3	4#400	1#2/0	3"
1200-3 CU	4	3#350	1#3/0	2-1/2"
1200-4 CU	4	4#350	1#3/0	3"
1400-3 CU	4	3#500	1#4/0	3"
1400-4 CU	4	4#500	1#4/0	3-1/2"
1600-3 CU	5	3#400	1#4/0	3"
1600-4 CU	5	4#400	1#4/0	3"
1800-3 CU	5	3#500	1#250	3"
1800-4 CU	5	4#500	1#250	3-1/2"
2000-3 CU	6	3#400	1#250	3"
2000-4 CU	6	4#400	1#250	3"
2500-3 CU	7	3#500	1#350	3"
2500-4 CU	7	4#500	1#350	3-1/2"
3000-3 CU	8	3#500	1#400	3-1/2"
3000-4 CU	8	4#500	1#400	3-1/2"

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REVIEWED BY	NI

ELECTRICAL ONE LINE DIAGRAMS AND DETAILS

E-301
BIDDING

EXISTING TO BE RELOCATED LIGHTING FIXTURE SCHEDULE WITH ADDITIONAL COMPONENTS

TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE K	LIGHT SOURCE CRI	INPUT WATTS	VOLTS	SPECIFIED FIXTURE MANUFACTURER	SPECIFIED FIXTURE EXISTING MODEL NO.	ADDITIONAL COMPONENTS
X-F1	EXISTING TO BE RELOCATED 2X4 RECESSED TROFFER WITH INTEGRAL SENSOR	LED	3500	82	31.7	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7	
X-F1E	EXISTING TO BE RELOCATED 2X4 RECESSED TROFFER WITH INTEGRAL SENSOR PLUS INTEGRAL BATTERY	LED	3500	82	31.7	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7	+ E10WCP
X-F1A	EXISTING TO BE RELOCATED 2X4 RECESSED TROFFER WITH INTEGRAL SENSOR	LED	3500	82	31.7	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RESTPDT	
X-F1AE	EXISTING TO BE RELOCATED 2X4 RECESSED TROFFER WITH INTEGRAL SENSOR PLUS INTEGRAL BATTERY	LED	3500	82	31.7	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RESTPDT	+ E10WCP
X-F1B	EXISTING TO BE RELOCATED 2X4 RECESSED TROFFER	LED	3500	82	31.7	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RIO	
X-F1BE	EXISTING TO BE RELOCATED 2X4 RECESSED TROFFER PLUS INTEGRAL BATTERY	LED	3500	82	31.7	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RIO	+ E10WCP

Notes:

1. CONTRACTOR TO FIELD-VERIFY EXISTING LIGHT FIXTURES FOR REUSABILITY.
2. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE RE-INSTALLTION OF FIXTURE(S) IN THE NEW SPACES. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. THE LISTED FIXTURE PRODUCT IN THE APPROVED MANUFACTURERS COLUMN WITH A FULL PRODUCT NUMBER FOR EACH FIXTURE TYPE IS FROM THE EXISTING TO BE RENOVATED SPACES. FINAL PRODUCT APROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.
4. THE LISTED ADDITIONAL COMPONENTS TO BE INSTALLED WITH FIXTURE IN NEW LOCATION. FINAL ADDITIONAL COMPONENT PRODUCT APROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.
5. CONTRACTOR ROUGH-IN JUNCTION BOXES TO BE LOCATED ABOVE CEILING.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE K	LIGHT SOURCE CRI	INPUT WATTS	VOLTS	SPECIFIED FIXTURE MANUFACTURER	SPECIFIED FIXTURE MODEL NO.
F1	2X4 RECESSED TROFFER WITH INTEGRAL SENSOR	LED	3500	80	32.1	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7
F1E	2X4 RECESSED TROFFER WITH INTEGRAL SENSOR AND BATTERY	LED	3500	80	32.1	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RES7 E10WCP
F1A	2X4 RECESSED TROFFER WITH INTEGRAL SENSOR	LED	3500	80	32.1	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RESTPDT
F1AE	2X4 RECESSED TROFFER WITH INTEGRAL SENSOR AND BATTERY	LED	3500	80	32.1	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RESTPDT E10WCP
F1B	2X4 RECESSED TROFFER	LED	3500	80	32.1	277	LITHONIA	2BLT4 40L ADPT EZ1 LP835 NLTAIR2 RIO
F1C	2X4 RECESSED TROFFER WITH INTEGRAL SENSOR	LED	3500	80	38.8	277	LITHONIA	2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7
F1CE	2X4 RECESSED TROFFER WITH INTEGRAL SENSOR AND BATTERY	LED	3500	80	38.8	277	LITHONIA	2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RES7 E10WCP
F1D	2X4 RECESSED TROFFER	LED	3500	80	38.8	277	LITHONIA	2BLT4 48L ADPT EZ1 LP835 NLTAIR2 RIO
F2	2X4 RECESSED TROFFER WET LOCATION	LED	3500	80	57.0	277	LITHONIA	2WRTL G L48 7000LM AFL MD MVOLT EZ1 35K 80CRI
F2E	2X4 RECESSED TROFFER WET LOCATION WITH INTEGRAL BATTERY	LED	3500	80	57.0	277	LITHONIA	2WRTL G L48 7000LM AFL MD MVOLT EZ1 35K 80CRI
F3AE	2X2 RECESSED TROFFER WITH INTEGRAL SENSOR AND BATTERY	LED	3500	80	16.4	277	LITHONIA	2BLT2 20L ADPT EZ1 LP835 NLTAIR2 RESTPDT E10WLCP
F3C	2X2 RECESSED TROFFER WITH INTEGRAL SENSOR	LED	3500	80	31.0	277	LITHONIA	2BLT2 40L ADPT EZ1 LP835 NLTAIR2 RESTPDT
F3CE	2X2 RECESSED TROFFER WITH INTEGRAL SENSOR AND BATTERY	LED	3500	80	31.0	277	LITHONIA	2BLT2 40L ADPT EZ1 LP835 NLTAIR2 RESTPDT E10WLCP
F3D	2X2 RECESSED TROFFER	LED	3500	80	31.0	277	LITHONIA	2BLT2 40L ADPT EZ1 LP835 NLTAIR2 RIO
F3FE	2X2 RECESSED TROFFER WITH INTEGRAL SENSOR AND BATTERY	LED	3500	80	42.9	277	LITHONIA	2BLT2 48L ADPT EZ1 LP835 NLTAIR2 RESTPDT E10WLCP
F3G	2X2 RECESSED TROFFER	LED	3500	80	42.9	277	LITHONIA	2BLT2 48L ADPT EZ1 LP835 NLTAIR2 RIO
F4A	6" LED DOWNLIGHT	LED	3500	80	9.8	277	GOTHAM	IVO6 D 10LM 35K 80CRI MIN10 MVOLT NLTAIR2 NCH P LSS F
F4AE	6" LED DOWNLIGHT WITH INTEGRAL BATTERY	LED	3500	80	9.8	277	GOTHAM	IVO6 D 10LM 35K 80CRI MIN10 MVOLT NLTAIR2 E10W NCH P LSS F
F4B	6" LED DOWNLIGHT	LED	3500	80	20.5	277	GOTHAM	IVO6 D 15LM 35K 80CRI MIN10 MVOLT NLTAIR2 NCH P LSS F
F4BE	6" LED DOWNLIGHT WITH INTEGRAL BATTERY	LED	3500	80	20.5	277	GOTHAM	IVO6 D 15LM 35K 80CRI MIN10 MVOLT NLTAIR2 E10W NCH P LSS F
F5A	4' LED PENDANT	LED	3500	80	23.4	277	FOCAL POINT	FSMALS 375LF 835K 1C UNV LD1 NLT1 4FT
F5AE	4' LED PENDANT WITH INTEGRAL BATTERY	LED	3500	80	23.4	277	FOCAL POINT	FSMALS 375LF 835K 1C UNV LD1 NLT1 1EM 4FT
F5B	8' LED PENDANT	LED	3500	80	23.4	277	FOCAL POINT	FSMALS 375LF 835K 1C UNV LD1 NLT1 8FT
F5BE	8' LED PENDANT WITH INTEGRAL BATTERY	LED	3500	80	23.4	277	FOCAL POINT	FSMALS 375LF 835K 1C UNV LD1 NLT1 1EM 8FT
F5CE	14' LED PENDANT WITH INTEGRAL BATTERY	LED	3500	80	46.8	277	FOCAL POINT	FSMALS 375LF 835K 1C UNV LD1 NLT1 1EM 14FT
F5D	10' LED PENDANT	LED	3500	80	23.4	277	FOCAL POINT	FSMALS 375LF 835K 1C UNV LD1 NLT1 10FT
F5DE	10' LED PENDANT WITH INTEGRAL BATTERY	LED	3500	80	23.4	277	FOCAL POINT	FSMALS 375LF 835K 1C UNV LD1 NLT1 1EM 10FT
F5F	8' LED PENDANT	LED	3500	80	64.4	277	FOCAL POINT	FSMALS 1000LF 835K 1C UNV LD1 NLT1 8FT
F5FE	8' LED PENDANT WITH INTEGRAL BATTERY	LED	3500	80	64.4	277	FOCAL POINT	FSMALS 1000LF 835K 1C UNV LD1 NLT1 1EM 8FT
F5G	10' LED PENDANT	LED	3500	80	64.4	277	FOCAL POINT	FSMALS 1000LF 835K 1C UNV LD1 NLT1 10FT
F5GE	10' LED PENDANT WITH INTEGRAL BATTERY	LED	3500	80	64.4	277	FOCAL POINT	FSMALS 1000LF 835K 1C UNV LD1 NLT1 1EM 10FT
F5H	14' LED PENDANT	LED	3500	80	88.8	277	FOCAL POINT	FSMALS 1000LF 835K 1C UNV LD1 NLT1 14FT
F6AE	56' LINEAR PENDANT DIRECT (8' SECTIONS) (MOUNTED AT 13'AFF)	LED	4000	80	324.8	277	PEERLESS PROPER	PRPD LSL 56FT MSL8 80CRI 35K TUWH PROR 600LMF DARK NLT MVOLT SCT 2E10WLCP ADPT SAPDT
F6BE	28' LINEAR PENDANT DIRECT (8' SECTIONS) (MOUNTED AT 12'AFF)	LED	4000	80	165.6	277	PEERLESS PROPER	PRPD LSL 28FT MSL8 80CRI 35K TUWH PROR 600LMF DARK NLT MVOLT SCT 2E10WLCP ADPT SAPDT
F6CE	24' LINEAR PENDANT DIRECT (8' SECTIONS) (MOUNTED AT 12'AFF)	LED	4000	80	139.2	277	PEERLESS PROPER	PRPD LSL 24FT MSL8 80CRI 35K TUWH PROR 600LMF DARK NLT MVOLT SCT 2E10WLCP ADPT SAPDT
F6DE	20' LINEAR PENDANT DIRECT (8' SECTIONS) (MOUNTED AT 12'AFF)	LED	4000	80	139.2	277	PEERLESS PROPER	PRPD LSL 20FT MSL8 80CRI 35K TUWH PROR 600LMF DARK NLT MVOLT SCT 2E10WLCP ADPT SAPDT
F6F	8' LINEAR PENDANT DIRECT (MOUNTED AT 12'AFF)	LED	4000	80	46.4	277	PEERLESS PROPER	PRPD LSL 8FT MSL8 80CRI 35K TUWH PROR 600LMF DARK NLT MVOLT SCT APDT
F7	HIGH BAY WITH WIRE GUARD (SUSPENDED 3' FROM THE CEILING)	LED	4000	80	93.0	277	LITHONIA	IBG 15000LM SEF PLC GND MVOLT GZ10 40K 80CRI WGX
F7E	HIGH BAY WITH WIRE GUARD (SUSPENDED 3' FROM THE CEILING)	LED	4000	80	93.0	277	LITHONIA	IBG 15000LM SEF PLC GND MVOLT GZ10 40K 80CRI IE30WCPHE WGX
F8	48" STRIP LIGHT	LED	4000	80	39.0	277	LITHONIA	FEM L48 6000LM LPPFL MD MVOLT GZ10 40K 80CRI
F8E	48" STRIP LIGHT	LED	4000	80	39.0	277	LITHONIA	FEM L48 6000LM LPPFL MD MVOLT GZ10 40K 80CRI E10WMCP
F9	48" ELEVATOR LIGHT	LED	4000	80	39.0	277	LITHONIA	FEM L48 6000LM LPPFL MD MVOLT GZ10 40K 80CRI
F10E	48" STAIR LINEAR WALL MOUNT WITH INTEGRAL OCCUPANCY SENSOR AND BATTERY	LED	3500	80	35.0	277	LITHONIA	BLWP4 40L ADPT EZ1 LP835 NESPDT7ADCX
F11	6" ROUND PENDANT LIGHT (DOWNLIGHT)	LED	3500	83	26.4	277	ALW	6RT-N1V-2083358NN
F11E	6" ROUND PENDANT LIGHT (DOWNLIGHT) WITH EXTERNAL BATTERY	LED	3500	83	26.4	277	ALW	6RT-N1V-2083358NW+E10WCP
F12	3" LED DOWNLIGHT	LED	3000	80	15.0	277	USAI	B3RDM-2AX3-35KS-65-S-WH-MOD
F12E	3" LED DOWNLIGHT	LED	3000	80	15.0	277	USAI	B3RDM-2AX3-35KS-65-S-WH-MOD
F13A	13' LED ASYMMETRIC	LED	3500	80	65.0	277	FOCAL POINT	FSMAAL FL 375LF 835K 1C UNV LD1 WH 13'
F13B	25' LED ASYMMETRIC	LED	3500	80	115.0	277	FOCAL POINT	FSMAAL FL 375LF 835K 1C UNV LD1 WH 25'
F13C	50' LED ASYMMETRIC	LED	3500	80	260.0	277	FOCAL POINT	FSMAAL FL 375LF 835K 1C UNV LD1 WH 50'
F14A	8' LED PERIMETER	LED	3500	80	173.0	277	FOCAL POINT	FSMAAPR ALH FL0 375LF 835K 1C UNV LD1 NLT1 WH 8'
F14B	10' LED PERIMETER	LED	3500	80	216.3	277	FOCAL POINT	FSMAAPR ALH FL0 375LF 835K 1C UNV LD1 NLT1 WH 10'
F15	4" ROUND PENDANT LIGHT (DOWNLIGHT)	LED	3500	83	26.4	277	FOCAL POINT	FLCY3N RD 7H 2100DN 835K 1C UNV SC LD1 WFL
F15E	4" ROUND PENDANT LIGHT (DOWNLIGHT) WITH EXTERNAL BATTERY	LED	3500	83	26.4	277	FOCAL POINT	FLCY3N RD 7H 2100DN 835K 1C UNV SC LD1 WFL+E10WCP
S1	EXTERIOR WALL PACK	LED	3000	80	15.0	277	LITHONIA	WDGE2 LED P2 30K 80CRI VW MVOLT SRM DNAXD
S1E	EXTERIOR WALL PACK WITH INTEGRAL BATTERY	LED	3000	80	15.0	277	LITHONIA	WDGE2 LED P2 30K 80CRI VW MVOLT SRM E20WC DNAXD
S2	EXTERIOR SINGLE HEAD LIGHT WALL MOUNT (MOUNTED AT 25'AFF)	LED	3000	80	124.0	277	LITHONIA	DSX1 LED P4 30K 80CRI T4M MVOLT RPA (QUANTITY 1)
S3A	EXTERIOR SINGLE HEAD LIGHT POLE MOUNT	LED	3000	80	124.0	277	LITHONIA	DSX1 LED P4 30K 80CRI T4M MVOLT RPA (QUANTITY 1) POLE: LITHONIA RSS 21-6 5B DM19AS VD NEC (QUANTITY 1)
S3B	EXTERIOR SINGLE HEAD LIGHT POLE MOUNT WITH GFCI OUTLET	LED	3000	80	124.0	277	LITHONIA	DSX1 LED P4 30K 80CRI T4M MVOLT RPA (QUANTITY 1) POLE: LITHONIA RSS 21-6 5B DM19AS VD FDLGFCny QNEC (QUANTITY 1)
S3C	EXTERIOR DUAL HEAD LIGHT POLE MOUNT	LED	3000	80	248.0	277	LITHONIA	DSX1 LED P4 30K 80CRI T4M MVOLT RPA (QUANTITY 2) POLE: LITHONIA RSS 21-6 5B DM28AS VD NEC (QUANTITY 1)
S4	EXTERIOR FLAG POLE LIGHT	LED	5000		35.0	277	HYDREL	MBY10C B LED P2 50K MVOLT MFL FLC10
S5A	EXTERIOR FLOOD FLAME GROUND MOUNT (4FT BUILDING OFFSET)	LED	4000	85	64.7	277	METEOR	SAF14F LED P1 RGBW4 MVOLT N30DEG CWL KM TPH DMX GS
S5B	EXTERIOR FLOOD FLAME GROUND MOUNT (5FT BUILDING OFFSET)	LED	4000	85	64.7	277	METEOR	SAF14F LED P1 RGBW4 MVOLT N30DEG CWL KM TPH DMX GS
S5C	EXTERIOR FLOOD FLAME GROUND MOUNT (8FT BUILDING OFFSET)	LED	4000	85	64.7	277	METEOR	SAF14F LED P1 RGBW4 MVOLT W70DEG CWL KM TPH DMX GS
XA	WALL MOUNTED EXIT SIGN SINGLE FACED	LED	0		3.0	277	LITHONIA	LQM S W 3 R MVOLT EL N
XAG	WALL MOUNTED EXIT SIGN SINGLE FACED WITH WIREGUARD	LED	0		3.0	277	LITHONIA	LQM S W 3 R MVOLT EL N ELA WG1
XB	CEILING MOUNTED EXIT SIGN SINGLE FACED	LED	0		3.0	277	LITHONIA	LQM S W 3 R MVOLT EL N
XC	CEILING MOUNTED EXIT SIGN DOUBLE FACED	LED	0		3.0	277	LITHONIA	LQM S W 3 R MVOLT EL N

Notes:

1. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLTION OF FIXTURE(S) IN THE SPACE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
2. THE FIRST LISTED FIXTURE PRODUCT IN THE APPROVED MANUFACTURERS COLUMN WITH A FULL PRODUCT NUMBER FOR EACH FIXTURE TYPE IS THE BASIS OF DESIGN. FINAL PRODUCT APROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.
3. CONTRACTOR ROUGH-IN JUNCTION BOXES TO BE LOCATED ABOVE CEILING.

LIGHTING CONTROL PANEL SCHEDULE

RELAY NO.	DESCRIPTION	CIRCUIT NO.	LOCAL L.V. SWITCH	LOCAL DS OVERRIDE	RELAY NO.	DESCRIPTION	CIRCUIT NO.	LOCAL L.V. SWITCH	LOCAL DS OVERRIDE
1	LIGHTING EXT. FOH PARKING	H1BLS:1	-	-	25	LIGHTING EXT. FLAG POLE	H1BLS:8	-	-
2	LIGHTING EXT. FOH PARKING	H1BLS:3			26	LIGHTING GYM 114	EH2G:3	a	-
3	LTG. EXT. N. BUILDING MOUNT	H1BLS:2	-	-	27	LIGHTING GYM 114	EH2G:5	b	-
4	LIGHTING EXT. N. POLE MOUNT	H1BLS:4			28	LIGHTING CAFETERIA 117	H1BL:2	a	-
5	LIGHTING EXT. FOH CANOPY	H1BLS:5	-	-	29	LIGHTING CAFETERIA 117	H1BL:4	b	-
6	LTG. EXT. N. / E. WALL PACKS	H1BLS:6	-	-	30	LIGHTING CAFETERIA 117	H1BL:6	b	-
7	LTG. EXT. E. BUILDING MOUNT	H1BLS:7	-	-	31	LIGHTING STAIRS S200	H1BL:19	-	-
8	LIGHTING EXT. E. BOH CANOPY	H1BLS:9	-	-	32	LIGHTING STAIRS S101	H2CL:1	-	-
9	LIGHTING VESTIBULE 100	H1BL:1	-	-	33	LIGHTING CORRIDOR 232/232A	H2CL:3	-	-
10	LIGHTING CORRIDOR C001	H1BL:3	-	-	34	LIGHTING CORRIDOR 232	H2CL:5	-	-
11	LTG. LOGO CORRIDOR C001	H1BL:5	-	-	35	LIGHTING DISCOVERY STAIRS	H2CL:27	-	-
12	LIGHTING CORRIDOR 113	H1BL:7	-	-	36	LIGHTING CORRIDOR/STAIRS	H2CL:31	-	-
13	LIGHTING CORRIDOR 113	H1BL:9	-	-	37	LTG. COLLAB-PORCH 210/218	H2CL:35	-	-
14	LIGHTING CORRIDOR 113	H1BL:11	-	-	38	EXTERIOR MARQUEE SIGN	L1BP:2	-	-
15	LTG. COLLAB - PORCH 113D	H1BL:13	-	-	39	EXTERIOR MONUMENT SIGN	L1BP:4	-	-
16	LTG. DISCOVERY SPACE 153	H1BL:15	-	-	40	VESTIBULE 100	H1BL:1	-	-
17	LTG. EXT. NW. FLOODS ADMIN	H1BLS:11	-	-	41	VESTIBULE 100A	EH2G:1	-	-
18	LTG. EXT. NW. FLOODS FOH	H1BLS:13	-	-	42	VESTIBULE 100B	H1BL:10	-	-
19	LTG. EXT. SOUTH FLOODS	H1BLS:15	-	-	43	VESTIBULE 100C	H1BL:11	-	-
20	LIGHTING SIGNAGE EXT. FOH	H1BLS:10	-	-	44	VESTIBULE 100D	H1BL:7	-	-
21	LTG. LEARNING STAIRS 121S	H2CL:27	-	-	45	SPARE	-	-	-
22	LTG. COLLAB-PORCH 210, 218	H2CL:35	-	-	46	SPARE	-	-	-
23	RAMP 114	H1BL:3	-	-	47	SPARE	-	-	-
24	SPARE	-	-	-	48	SPARE	-	-	-

LIGHTING CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE NEW 'NLIGHT' LIGHTING CONTROL PANEL TIED INTO EXISTING LIGHTING CONTROL SYSTEM.
2. EXTERIOR LIGHTS ARE TO ENERGIZE/DE-ENERGIZE BASED ON THE TIME OF DAY SCHEDULES & OUTSIDE LIGHT LEVELS MEASURED BY A BUILDING MOUNTED PHOTOCELL.
3. CONTRACTOR IS RESPONSIBLE FOR NECESSARY PROGRAMMING OF LIGHTING CONTROLS.

DETAILS OF OPERATION

THE LCP LIGHTING CONTROLS PROVIDE TIME OF DAY CONTROL WITH A CENTRAL BUILDING MOUNTED PHOTOCELL OVERRIDE FOR ALL EXTERIOR LIGHTING. THE OWNER DEFINES NORMAL HOURS OF OPERATION, CONTROLLED BY THE ASTRONOMICAL TIMER.

LIGHT FIXTURES WITHOUT A SWITCH LEG TO BE CONTROLLED WITH LOCAL SENSORS AND OVERRIDES. REFER TO THE FLOOR PLANS FOR LOCATIONS AND TYPE.

PROVIDE OCCUPANCY SENSORS ON THE FLOOR PLAN SET FOR 20 MINUTES TO TURN THE LIGHTS ON AFTER HOURS OF OPERATION.

DMX CONTROL SCHEDULE

RELAY NO.	DESCRIPTION	CIRCUIT NO.
1	LTG. EXT. NW. FLOODS ADMIN	H1BLS:11
2	LTG. EXT. NW. FLOODS FOH	H1BLS:13
3	LTG. EXT. SOUTH FLOODS	H1BLS:15
4	SPARE	-

DMX-RDM CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE NEW 'PWREP IP65 P4 TERM RDM' DMX CONTROL PANEL TIED INTO EXISTING LIGHTING CONTROL SYSTEM.
2. CONTRACTOR IS RESPONSIBLE FOR NECESSARY PROGRAMMING OF DMX CONTROLS.

DETAILS OF OPERATION

THE DMX LIGHTING CONTROLS PROVIDE REMOTE DEVICE MANAGEMENT (RDM). THE OWNER DEFINES OPERATION.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG <1>	DESCRIPTION <2>	LOAD <3>	WIRE/CONDUIT <4>	STARTER <5>	VOLTAGE <6>	LOCAL DISCONNECT <7>	REMARKS
AHU 114D	AIR HANDLER UNIT	27 MCA 40 MOCP	(3) #8 AWG (1) #10 AWG EQ. GND 1" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
AHU -	AIR HANDLER UNIT (1A, 1B)	93 MCA 125 MOCP	REFER TO ONE-LINE DIAGRAM	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
AHU -	AIR HANDLER UNIT (2A, 2B)	52 MCA 70 MOCP	REFER TO ONE-LINE DIAGRAM	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
RTU 118	GAS FIRED / DIRECT EXPANSION ROOF TOP AIR UNIT	35 MCA 40 MOCP	(3) #8 AWG (1) #10 AWG EQ. GND 1" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE NEMA 3R DISCONNECT SWITCH.
FC 111	MINI SPLIT INDOOR UNIT	POWERED FROM CU 111	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
FC 200A	MINI SPLIT INDOOR UNIT	POWERED FROM CU 200A	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
CU -	MINI SPLIT OUTDOOR UNIT (111, 200A)	0.20 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE NEMA 3R DISCONNECT SWITCH.
CU -	CONDENSING UNIT (1A, 1B)	69 MCA 80 MOCP	REFER TO ONE-LINE DIAGRAM	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE NEMA 3R DISCONNECT SWITCH.
CU -	CONDENSING UNIT (1C, 1D)	81 MCA 70 MOCP	REFER TO ONE-LINE DIAGRAM	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE NEMA 3R DISCONNECT SWITCH.
CU -	CONDENSING UNIT (2A, 2B, 114D)	94 MCA 110 MOCP	REFER TO ONE-LINE DIAGRAM	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE NEMA 3R DISCONNECT SWITCH.
CUH 100A	ELECTRIC HEATER	19 MCA 25 MOCP	(2) #10 AWG (1) #10 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	208V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	UNIT TO BE PROVIDED WITH FACTORY INSTALLED DISCONNECT SWITCH.
UH 113C	ELECTRIC WALL HEATER	12 MCA 15 MOCP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	UNIT TO BE PROVIDED WITH FACTORY INSTALLED DISCONNECT SWITCH.
CUH -	HOT WATER CABINET HEATER (100F, 100B, 100C, 100D, 100E, 128B, 130B, 132B, 134B, 205B, 215B)	0.10 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
UH 220B	HOT WATER CABINET HEATER	0.10 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
UH -	HOT WATER CABINET HEATER (235A, 235B, 235C, 235D)	0.13 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
BB S100	HOT WATER BASEBOARD HEATER	5 MCA 15 MOCP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
HSF 1	HIGH SPEED FAN	55 W	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
EF -	EXHAUST FAN (103, 112B, 122B, 123B, 128A, 130A, 132A, 131B, 131C,132A, 134A, 138A, 144A, 146A, 148A, 150A, 205A, 208, 209, 215A, 220A, 225A, 227A, 229A, 231A)	0.01 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH, MC TO PROVIDE MOTOR STARTER.
EF -	EXHAUST FAN (105A, 112A, 117A)	0.17 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH, MC TO PROVIDE MOTOR STARTER.
EF 118D	EXHAUST FAN	0.04 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.	☐ INTEGRAL TO EQUIPMENT ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	EC TO PROVIDE DISCONNECT SWITCH.
EF -	EXHAUST FAN (121, 208A,235A, 235B)	0.02 HP	(2) #12 AWG (1) #12 AWG EQ. GND 3/4" C.

Branch Panel: L1AP

Location: IDF 111
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
L	1	FAAP, VEST 100	1.67..	20 A	1	200 VA	900 VA		1	20 A	7.5 A	RECEPTS. C001, 100	2	
G	3	REFRIGERATOR 101C	7.5 A	20 A	1			900 VA	360 VA		1	20 A	3 A	DESK RECEPTION 101	4	
G	5	REFRIGERATOR NURSE 109	7.5 A	20 A	1					900 VA	1200 VA	1	20 A	10 A	PRINTER 101B	6	
G	7	WATER FOUNTAIN CAFETERIA 117	5 A	20 A	1	600 VA	540 VA		1	20 A	4.5 A	RECEPTS 101A, 101C	8	
G	9	WATER FOUNTAIN CAFETERIA 117	5 A	20 A	1			600 VA	540 VA		1	20 A	4.5 A	AUTOMATIC DOORS VEST. 100	10	
G	11	MIRCROWAVE 101C	12.5..	20 A	1					1500 VA	900 VA	1	20 A	7.5 A	RECEPTS 106	12	
G	13	WASHER-DRYER COMBO 109A	12.5..	20 A	1	1500 VA	900 VA		1	20 A	7.5 A	RECEPTS PRINCIPAL 105	14	
	15	WASHER-DRYER COMBO 109A	24.0..	30 A	2			2500 VA	500 VA		1	20 A	4.17	TELEVISION ORCHESTRA 116	16	
	17									2500 VA	540 VA	1	20 A	4.5 A	RECEPTS 109, 110	18	
	19	RECEPTS 103, 107	6 A	20 A	1	720 VA	720 VA		1	20 A	6 A	RECEPTS CONF. 102	20	
	21	RECEPTS 104	7.5 A	20 A	1			900 VA	1040 VA		1	20 A	8.67	RECEPTS 115, 115A	22	
	23	RECEPTS 109, 110	7.5 A	20 A	1					900 VA	1080 VA	1	20 A	9 A	RECEPTS C001, ELEVATOR	24	
	25	RECEPTS 108	9 A	20 A	1	1080 VA	720 VA		1			1	20 A	6 A	RECEPTS CONF. 102	26	
	27	RECEPTS ORCHESTRA 116	6 A	20 A	1			720 VA	720 VA			1	20 A	6 A	RECEPTS 102, 102E	28	
	29	RECEPTS 109A, 109B	3 A	20 A	1					360 VA	540 VA	1	20 A	4.5 A	RECEPTS 109A, 109B	30	
	31	RECEPTS CAFETERIA 117	7.5 A	20 A	1	900 VA	360 VA		1			1	20 A	3 A	RECEPTS WORKROOM 108	32	
	33	PROJECTOR CAFETERIA 117	4.5 A	20 A	1			540 VA	180 VA			1	20 A	1.5 A	RECEPTS DOOR CONTROL C001	34	
	35	RECEPTS 117A, 117B	3 A	20 A	1					360 VA	500 VA	1	20 A	4.17	TELEVISION STAGE/MUSIC 115	36	
	37	RECEPTS CAFETERIA 117	4.5 A	20 A	1	540 VA	70 VA		1			1	20 A	0.58	ACCESS CONTROL 100, C001, 101	38	
	39	EXTERIOR RECEPTS. FOH	1.5 A	20 A	1			180 VA	400 VA			1	20 A	3.33	CV-VAV UNITS ADMIN	40	
	41	EXTERIOR RECEPTS. E. ORCHESTRA	1.5 A	20 A	1					180 VA	142 VA	1	20 A	1.16	EF-103, 109A, 112B	42	
	43	SENSORS PLUMBING CAFETERIA 117	0.25..	20 A	1	30 VA	450 VA		1			1	20 A	3.75	CV-VAV, 1ST FLR CORRIDORS/CAFE	44	
	45	AV RACK CAFETERIA	3 A	20 A	1			360 VA	149 VA			1	20 A	1.24	UH 100A, 100E, VEST. 100	46	
	47	AIR COMPRESSOR, AC-1	0.42..	20 A	1					50 VA	600 VA	1	20 A	5 A	BB 5100	48	
	49	SPARE	--	20 A	1	0 VA	1350 VA		1			2	25 A	12.9..	SP-1, ELEVATOR	50	
	51	SPARE	--	20 A	1			0 VA	1350 VA							52	
	53	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	54	
	55	SPARE	--	20 A	1	0 VA	0 VA		1			1	20 A	--	SPARE	56	
	57	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	58	
	59	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	60	
		Total Load:				11339 VA		11697 VA			12252 VA						
		Total Amps:				94 A		98 A			103 A						

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	2700 VA	100.00%	2700 VA	**Total Conn. Load:** 35068 VA
HVAC	891 VA	100.00%	891 VA	**Total Est. Demand:** 26041 VA
Motor	50 VA	100.00%	50 VA	**Total Conn.:** 97 A
Receptacle	27680 VA	68.06%	18840 VA	**Total Est. Demand:** 73 A
Power	3400 VA	100.00%	3400 VA	
Lighting	850 VA	100.00%	850 VA	

Notes:

Branch Panel: L1BP

Location: STORAGE 151
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
G	1	WATER FOUNTAIN CORRIDOR 113	5 A	20 A	1	600 VA	180 VA		1	20 A	1.5 A	EXTERIOR MONUMENT MARQUEE SIGN	2	
G	3	WATER FOUNTAIN CORRIDOR 113	5 A	20 A	1			600 VA	600 VA		1	20 A	5 A	EXTERIOR MONUMENT SIGN	4	
G	5	MW KITCHENETTE 124	12.5..	20 A	1					1500 VA	540 VA	1	20 A	4.5 A	RECEPTS STORAGE 151	6	
G	7	REFRIGERATOR KITCHENETTE 124	7.5 A	20 A	1	900 VA	540 VA		1			1	20 A	4.5 A	RECEPTS CORRIDOR 133	8	
G	9	REFRIGERATOR STAFF WRM 131	7.5 A	20 A	1			900 VA	540 VA			1	20 A	4.5 A	RECEPTS CORRIDOR 113	10	
G	11	REFRIGERATOR STAFF WRM 131	7.5 A	20 A	1					900 VA	360 VA	1	20 A	3 A	RECEPTS CORRIDOR 113	12	
G	13	MW STAFF WORK ROOM 131	12.5..	20 A	1	1500 VA	900 VA		1			1	20 A	7.5 A	RECEPTS 1ST GRADE 145	14	
G	15	MW STAFF WORK ROOM 131	12.5..	20 A	1			1500 VA	900 VA			1	20 A	7.5 A	RECEPTS 1ST GRADE 145, 146A	16	
G	17	MW STAFF WORK ROOM 131	12.5..	20 A	1					1500 VA	720 VA	1	20 A	6 A	RECEPTS 1ST GRADE 146	18	
G	19	MW STAFF WORK ROOM 131	12.5..	20 A	1	1500 VA	900 VA		1			1	20 A	7.5 A	RECEPTS 1ST GRADE 146	20	
G	21	MW STAFF WORK ROOM 131	12.5..	20 A	1			1500 VA	360 VA			1	20 A	3 A	AUDIO ENHANCEMENT 1ST 145/146	22	
G	23	MW STAFF WORK ROOM 131	12.5..	20 A	1					1500 VA	360 VA	1	20 A	3 A	AUDIO ENHANCEMENT 2ND 147/148	24	
G	25	FREEZER STAFF WORK ROOM 131	10 A	20 A	1	1200 VA	360 VA		1			1	20 A	3 A	AUDIO ENHANCEMENT 2ND 149/150	26	
	27	RECEPTS 2ND GRADE 147	6 A	20 A	1			720 VA	360 VA			1	20 A	3 A	GARAGE DOOR 1ST GRADE 145/146	28	
	29	RECEPTS 2ND GRADE 147	7.5 A	20 A	1					900 VA	360 VA	1	20 A	3 A	GARAGE DOOR 2ND GRADE 147/148	30	
	31	RECEPTS 2ND GRADE 148	7.5 A	20 A	1	900 VA	360 VA		1			1	20 A	3 A	GARAGE DOOR 2ND GRADE 149/150	32	
	33	RECEPTS 2ND GRADE 148, 148A	7.5 A	20 A	1			900 VA	900 VA			1	20 A	7.5 A	RECEPTS LIFE SKILLS 123, 123B	34	
	35	RECEPTS 2ND GRADE 149	7.5 A	20 A	1					900 VA	540 VA	1	20 A	4.5 A	RECEPTS WELLNESS 131A	36	
	37	RECEPTS 2ND GRADE 149	6 A	20 A	1	720 VA	900 VA		1			1	20 A	7.5 A	RECEPTS LIFE SKILLS 122	38	
	39	RECEPTS 2ND GRADE 150, 150A	7.5 A	20 A	1			900 VA	720 VA			1	20 A	6 A	RECEPTS LIFE SKILLS 122	40	
	41	RECEPTS 2ND GRADE 150	7.5 A	20 A	1					900 VA	900 VA	1	20 A	7.5 A	RECEPTS LIFE SKILLS 122, 122B	42	
	43	RECEPTS DISCOVERY SPACE 153	6 A	20 A	1	720 VA	180 VA		1			1	20 A	1.5 A	RECEPT KITCHENETTE 124	44	
	45	RECEPTS DISCOVERY SPACE 153	3 A	20 A	1			360 VA	540 VA			1	20 A	4.5 A	RECEPTS 113, 121	46	
	47	RECEPTS DISCOVERY SPACE 153	4.5 A	20 A	1					540 VA	720 VA	1	20 A	6 A	RECEPTS LIFE SKILLS 123	48	
	49	RECEPTS 152, 154, 155	9 A	20 A	1	1080 VA	900 VA		1			1	20 A	7.5 A	RECEPTS LIFE SKILLS 123	50	
	51	RECEPTS, COUNTER STAFF WRM 131	4.5 A	20 A	1			540 VA	540 VA			1	20 A	4.5 A	RECEPTS 131, 131C	52	
	53	RECEPTS, WALL, STAFF WRM 131, 131B	7.5 A	20 A	1					900 VA	360 VA	1	20 A	3 A	PROJECTOR LEARNING STAIR 152	54	
	55	DATA RACK STORAGE 151	6 A	20 A	1	720 VA	180 VA		1			1	20 A	1.5 A	RECEPT KITCHENETTE 124	56	
	57	EXTERIOR RECEPTACLES EAST SIDE	6 A	20 A	1			720 VA	360 VA			1	20 A	3 A	AUDIO ENHANCEMENT 122/123	58	
	59	RECEPTS CORRIDOR 113	4.5 A	20 A	1					540 VA	720 VA	1	20 A	6 A	RECEPTS LEARNING STAIR 152	60	
	61	RECEPTS LEARNING STAIR 152	6 A	20 A	1	720 VA	90 VA		1			2	30 A	0.87..	PRINTER	62	
	63	TELEVISION DISCOVERY SPACE 153	4.17..	20 A	1			500 VA	90 VA							64	
	65	EF-131B,131C	0.12..	20 A	1					15 VA	540 VA	1	20 A	4.5 A	RECEPTS STAFF WORK ROOM 131	66	
	67	AV RACK - LEARNING STAIR	3 A	20 A	1	360 VA	300 VA		1			1	20 A	2.5 A	CVs VAVs	68	
	69	SPARE	--	20 A	1			0 VA	75 VA			1	20 A	0.62..	UH 100D	70	
	71	SPARE	--	20 A	1					0 VA	30 VA	1	20 A	0.25	EFs - CLASSROOMS MOD. B	72	
	73	SPARE	--	20 A	1	0 VA	400 VA		1			1	20 A	3.33	CV-VAV UNITS MOD. C	74	
	75	SPARE	--	20 A	1			0 VA	250 VA			1	20 A	2.08	CV-VAV UNITS 134, 153A, 153B, 113E, 154	76	
	77	SPARE	--	20 A	1					0 VA	15 VA	1	20 A	0.12..	EF- 122B, 123B	78	
	79	SPARE	--	20 A	1	0 VA	0 VA		1			1	15 A	0 A	EF-121	80	
	81	SPARE	--	20 A	1			0 VA	1200 VA			1	20 A	10 A	UV-123A,B	82	
	83	SPARE	--	20 A	1					0 VA	1200 VA	1	20 A	10 A	UV-123A,B	84	
		Total Load:				17110 VA		16575 VA			17460 VA						
		Total Amps:				143 A		138 A			146 A						

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L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	2534 VA	100.00%	2534 VA	**Total Conn. Load:** 51144 VA
Receptacle	40260 VA	62.42%	25130 VA	**Total Est. Demand:** 36014 VA
Power	7400 VA	100.00%	7400 VA	**Total Conn.:** 142 A
Lighting	950 VA	100.00%	950 VA	**Total Est. Demand:** 100 A

Notes:

Branch Panel: 1B

Location: BOILER ROOM 129
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
E	1	RECEPTS. CORRIDOR 113, VEST 100C	6 A	20 A	1	720 VA	900 VA		1	20 A	7.5 A	RECEPTS KINDERGARTEN 132	2	E
E	3	RECEPTS. OT/PT 125	7.5 A	20 A	1			900 VA	225 VA		1	20 A	1.88 A	PCU 137, 138, 140A	4	E
E	5	RECEPTS. OT/PT 125	6 A	20 A	1					720 VA	900 VA	1	20 A	7.5 A	RECEPTS KINDERGARTEN 132, 132A	6	E
E	7	RECEPTS. PSYCH 127	6 A	20 A	1	720 VA	360 VA		1			1	20 A	3 A	RECEPT MECHANICAL 208B	8	E
E	9	RECEPTS. SOCIAL WORKER 126	6 A	20 A	1			720 VA	540 VA			1	20 A	4.5 A	AUTOMATIC DOORS STATION SPECIAL ED 128	10	E
E	11	AUDIO ENHANCEMENT RM 125, 128, 130	4.5 A	20 A	1					540 VA	360 VA	1	20 A	3 A	TEACHERS STATION 130	12	E
E	13	RECEPTS LIFE SKILLS 128, 128A	4.5 A	20 A	1	540 VA	0 VA		1			1	20 A	--	EXISTING LITES BOILER ROOM	14	E
E	15	RECEPTS LIFE SKILLS 128, 128B	7.5 A	20 A	1			900 VA	180 VA			1	20 A	1.5 A	RECEPTACLE MECHANICAL 208B	16	E
E	17	RECEPTS KINDERGARTEN 130, 130A	7.5 A	20 A	1					900 VA	0 VA	1	20 A	--	SPARE	18	E
E	19	RECEPTS KINDERGARTEN 130	7.5 A	20 A	1	900 VA	0 VA		1			1	20 A	--	EXISTING HALL HEATERS SO.	20	E
E	21	AUTOMATIC DOORS VEST. 100C	3 A	20 A	1			360 VA	0 VA			1	20 A	--	SPARE	22	E
E	23	EXISTING HALL HEATERS	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	24	E
E	25	ACCESS CONTROL VEST. 100C	0.08 A	20 A	1	10 VA	0 VA		1			1	20 A	--	EXISTING HOT WATER PUMP	26	E
E	27	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	EXISTING HOT WATER HEATER PUMP	28	E
E	29	EXISTING UNIT HEATER	--	20 A	1	0 VA	0 VA		1			1	20 A	--	EXISTING KILA EXC. FOR	30	E
E	31	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	EXISTING RECPT BOILER ROOM	32	E
E	33	EXISTING HOT WATER HEATER PANEL	--	60 A	2					0 VA	0 VA	1	20 A	--	EXISTING RECPT BOILER ROOM	34	E
E	35																
E	37	SPARE	--	20 A	1	0 VA	0 VA		1			1	20 A	3.33 A	FACP BOILER RM	36	E
E	39	SPARE	--	20 A	1			0 VA	0 VA			3	60 A	--	EXISTING KILA	38	
E	41	SPARE	--	20 A	1					0 VA	0 VA					40	E
		Total Load:				4150 VA		3825 VA			3820 VA					42	
		Total...				35 A		32 A			32 A						

CIRCUIT BREAKER INFORMATION LEGEND:
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ABBREVIATIONS:
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CB = CIRCUIT BREAKER
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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	225 VA	100.00%	225 VA	
Receptacle	9540 VA	100.00%	9540 VA	**Total Conn. Load:** 11395 VA
Power	1630 VA	100.00%	1630 VA	**Total Est. Demand:** 11395 VA
				Total Conn.: 32 A
				Total Est. Demand: 32 A

Notes:

Branch Panel: CH

Location: BOILER ROOM 129
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
E	1	UNIT VENTILATOR CDT 125	10 A	20 A	1	1200 VA	0 VA		1	20 A	--	SPARE	2	E
E	3	FCU 113C, 113B, 113A	0 A	20 A	1		0 VA	1416 VA		1	20 A	11.8 A	UNIT VENTILATOR 130 A,B	4	E
E	5	UNIT VENTILATOR 128A, 128B	10.9 A	20 A	1			1308 VA	0 VA	1	20 A	--	EXISTING FCU X130A	6	N
E	7	SPARE	--	20 A	1	0 VA	1000 VA							8	E
E	9	SPARE	--	20 A	1		0 VA	1000 VA	2	20 A	--	EXISTING A.C.	10	E
E	11	EXISTING HEATERS 116A, 116B	--	20 A	1			200 VA	1416 VA	1	20 A	11.8 A	ERV 1	12	E
	13					2000 VA	200 VA			1	20 A	--	EXISTING CHILLER GH	14	E
	15	EXISTING 60AMP PANEL RM #2	--	60 A	2		2000 VA	200 VA		1	20 A	--	EXISTING EAST WALL VENT	16	E
E	17	EXISTING AIR CONTROLS	--	20 A	1				200 VA	200 VA	1	20 A	--	EXISTING HEATERS 121	18	E
E	19	EXISTING UV 104 & 104A	--	20 A	1	100 VA	0 VA							20	E
E	21	EXISTING ROOF VENT UP	--	20 A	1		200 VA	0 VA	1	20 A	--	SPARE	22	E
E	23	UNIT VENTILATOR 132A, 132B	11.8 A	20 A	1			1416 VA	0 VA	1	20 A	--	EXISTING ROOF VENT UP	24	N
E	25	EF-128A,130A	0.12 A	20 A	1	15 VA	0 VA		1	20 A	--	SPARE	26	N
N	27	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	28	N
N	29	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	30	N
N	31	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	32	N
N	33	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	34	N
N	35	CUH 128B, 130B, 132B, 134B	1.24 A	20 A	1			149 VA	0 VA	1	20 A	--	SPARE	36	N
N	37	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	38	
N	39	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	40	N
N	41	UV-126, 127	0 A	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	42	N
		Total Load:				4515 VA		4816 VA			4889 VA				
		Total...				38 A		41 A			41 A				

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ABBREVIATIONS:
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CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	5504 VA	100.00%	5504 VA	
Other	1416 VA	100.00%	1416 VA	**Total Conn. Load:** 14220 VA
Spare	7300 VA	100.00%	7300 VA	**Total Est. Demand:** 14220 VA
				Total Conn.: 39 A
				Total Est. Demand: 39 A

Notes:
SNI

Branch Panel: L1CP

Location: 1-2 STORAGE 141
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	ACCESS CONTROL VESTIBULE 100D	0.08..	20 A	1	10 VA	540 VA		1	20 A	4.5 A	RECEPTS CORRIDOR 113, 102.2	2	
	3	RECEPTS STORAGE 141	4.5 A	20 A	1			540 VA	540 VA		1	20 A	4.5 A	RECEPTS KINDERGARTEN 134	4	
	5	RECEPTS KINDERGARTEN 138, 138A	6 A	20 A	1					720 VA	900 VA	1	20 A	7.5 A	RECEPTS KINDERGARTEN 134	6	
	7	RECEPTS KINDERGARTEN 138	7.5 A	20 A	1	900 VA	720 VA		1			1	20 A	6 A	RECEPTS KINDERGARTEN 134	8	
	9	RECEPTS KINDERGARTEN 138	4.5 A	20 A	1			540 VA	360 VA			1	20 A	3 A	RECEPTS CORRIDOR 113	10	
	11	RECEPTS COLLAB-PORCH 136	6 A	20 A	1					720 VA	360 VA	1	20 A	3 A	GARAGE DOOR 1ST GRADE 143/144	12	
	13	RECEPTS ML SPECIALIST 133	6 A	20 A	1	720 VA	360 VA		1			1	20 A	3 A	AUDIO ENHANC. KINDERGARTEN	14	
	15	RECEPTS INSTR. ROOM 135	6 A	20 A	1			720 VA	180 VA			1	20 A	1.5 A	AUDIO ENHANC. KINDERGARTEN 138	16	
	17	RECEPTS SLP 137	6 A	20 A	1					720 VA	360 VA	1	20 A	3 A	AUDIO ENHANCEMENT 1ST 143/144	18	
	19	RECEPTS OFFICE 139	6 A	20 A	1	720 VA	900 VA		1			1	20 A	7.5 A	RECEPTS 1ST GRADE 144	20	
	21	RECEPTS 1ST GRADE 143, 144A	7.5 A	20 A	1			900 VA	720 VA			1	20 A	6 A	RECEPTS 1ST GRADE 144	22	
	23	RECEPTS 1ST GRADE 143	7.5 A	20 A	1					900 VA	360 VA	1	20 A	3 A	RECEPTS OFFICE 140	24	
	25	RECEPTACLE ROOM 100D, 113	4.5 A	20 A	1	540 VA	1200 VA		1			1	20 A	10 A	UV-135, 133	26	
	27	PRINTER OFFICE 140	1.5 A	20 A	1			180 VA	1200 VA			1	20 A	10 A	UV-139, 137	28	
	29	EXTERIOR RECEPTACLES WEST SIDE	3 A	20 A	1					360 VA	22 VA	1	20 A	0.19..	EF-132A, 134A, 138A	30	
	31	UV-141	5 A	20 A	1	600 VA	200 VA		1			1	20 A	1.67..	CV-VAV UNITS MOD. C 1ST FLOOR	32	
	33	CUH-132B, 134B	1.24..	20 A	1			149 VA	1416 VA			1	20 A	11.8..	UNIT VENTILATOR 138A, 138B	34	
	35	UNIT VENTILATOR 134A, 134B	11.8..	20 A	1					1416 VA	0 VA	1	20 A	--	SPARE	36	
	37	SPARE	--	20 A	1	0 VA	0 VA		1			1	20 A	--	SPARE	38	
	39	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	40	
	41	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	42	
	43	SPARE	--	20 A	1	0 VA	0 VA		1			1	20 A	--	SPARE	44	
	45	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	46	
	47	SPARE	--	20 A	1					0 VA	--	1	--	--	SPACE	48	
	49	SPARE	--	20 A	1	0 VA	--					1	--	--	SPACE	50	
	51	SPARE	--	20 A	1			0 VA	--			1	--	--	SPACE	52	
	53	SPARE	--	20 A	1					0 VA	--	1	--	--	SPACE	54	
	55	SPARE	--	20 A	1	0 VA	--					1	--	--	SPACE	56	
	57	SPARE	--	20 A	1			0 VA	--			1	--	--	SPACE	58	
	59	SPARE	--	20 A	1					0 VA	--	1	--	--	SPACE	60	
		Total Load:				7410 VA		7445 VA			6838 VA						
		Total Amps:				62 A		63 A			57 A						

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ABBREVIATIONS:
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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	6004 VA	100.00%	6004 VA	**Total Conn. Load:** 21694 VA
Receptacle	11700 VA	92.74%	10850 VA	**Total Est. Demand:** 20844 VA
Power	3790 VA	100.00%	3790 VA	**Total Conn.:** 60 A
Lighting	200 VA	100.00%	200 VA	**Total Est. Demand:** 58 A

Notes:

Branch Panel: H1BL

Location: STORAGE 151
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	LIGHTING VESTIBULE 100	0.23..	20 A	1	65 VA	500 VA		1	20 A	1.81..	LCP - STORAGE 151/DF MAIN	2	
	3	LIGHTING CORRIDOR C001	2.18..	20 A	1		635 VA	653 VA	1

Branch Panel: EH2G

Location: GENERATOR 236A
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MCB
Bus Amps: 100 A
MCB Rating: 100 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	LIGHTING GYM STORAGE 113B	2.75...	20 A	1	763 VA	3000 VA		1	20 A	--	BLOCK HEATER	2	
	3	LIGHTING GYM 114 a	3.39...	20 A	1		939 VA	0 VA				SPARE	4	
	5	LIGHTING GYM 114 b	3.36...	20 A	1			930 VA	0 VA	1	20 A	SPARE	6	
	7					7479 VA	0 VA					SPARE	8	
	9	AHU-C313, MEZZANINE C313	26.99 A	50 A	3			7479 VA	877 VA				10	
	11							7479 VA	980 VA	3	15 A	2.24 A TR-G	12	
	13	SPARE	--	20 A	1	0 VA	5 VA						14	
	15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	-- SPARE	16	
	17	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	-- SPARE	18	
	19	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	20	
	21	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	-- SPARE	22	
	23	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	-- SPARE	24	
	25					0 VA	--					SPACE	26	
	27	SPARE	--	30 A	3		0 VA	--		1	--	-- SPACE	28	
	29							0 VA	--	1	--	-- SPACE	30	
	31					0 VA	--		0 VA	--	1	-- SPACE	32	
	33	SPARE	--	30 A	3		0 VA	--		1	--	-- SPACE	34	
	35							0 VA	--	1	--	-- SPACE	36	
	37					0 VA	--		0 VA	--	1	-- SPACE	38	
	39	SPARE	--	30 A	3			0 VA	--	1	--	-- SPACE	40	
	41								0 VA	--	1	-- SPACE	42	
		Total Load:				11247 VA		9295 VA				9389 VA		
		Tot...				41 A		34 A				34 A		

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ABBREVIATIONS:
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CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	22564 VA	100.00%	22564 VA		
Motor	5 VA	100.00%	5 VA	**Total Conn. Load:**	29731 VA
Spare	4500 VA	100.00%	4500 VA	**Total Est. Demand:**	29731 VA
Power	30 VA	100.00%	30 VA	**Total Conn.:**	36 A
Lighting	2632 VA	100.00%	2632 VA	**Total Est. Demand:**	36 A

Notes:

Branch Panel: EL2G

Location: GENERATOR 236A
Supply From: TR-G
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: MCB
Bus Amps: 60 A
MCB Rating: 30 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	EF 112A	1.06...	15 A	1	127 VA	750 VA		2	15 A	--	BATTERY CHARGER	2	
	3	SENSORS PLUMBING TOILET RM 112	0.25...	15 A	1		30 VA	750 VA					4	
	5	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	-- SPARE	6	
	7	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	8	
L	9	FAAP, VEST 100A	1.67	20 A	1		200 VA	0 VA		1	20 A	-- SPARE	10	
	11	MOTORIZED DAMPER	0.04...	15 A	1			5 VA	0 VA	1	20 A	-- SPARE	12	
	13	SPARE	--	20 A	1	0 VA	0 VA						14	
	15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	-- SPARE	16	
	17	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	-- SPARE	18	
		Total Load:				877 VA		980 VA				5 VA		
		Tot...				8 A		9 A				0 A		

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	127 VA	100.00%	127 VA		
Motor	5 VA	100.00%	5 VA	**Total Conn. Load:**	1662 VA
Spare	1500 VA	100.00%	1500 VA	**Total Est. Demand:**	1662 VA
Power	30 VA	100.00%	30 VA	**Total Conn.:**	5 A
				Total Est. Demand:	5 A

Notes:

Branch Panel: L2GP

Location: GYM STORAGE 113B
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 100 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
G	1	GYM WATER FOUNTAIN 114	5 A	20 A	1	600 VA	1976 VA		2	30 A	19 A	CUH-100A	2	
G	3	GYM WATER FOUNTAIN 114	5 A	20 A	1			600 VA	1976 VA				4	
	5	SPARE	--	20 A	1					0 VA	1440 VA	1 20 A 12 A UH-113C	6	
	7	RECEPTS, 100A, 100	6 A	20 A	1	720 VA	360 VA					1 20 A 3 A HEIGHT & HOIST WEST	8	
	9	RECEPTS, 114B, 114A	4.5 A	20 A	1		540 VA	360 VA				1 20 A 3 A HEIGHT & HOIST EAST	10	
	11	RECEPTS, VEST, STORAGE, TOILET	6 A	20 A	1			720 VA	540 VA	1	20 A	4.5 A EXTERIOR RECEPT, N. PLAYSURFACES	12	
	13	RECEPTS, GYM 114	6 A	20 A	1	720 VA	360 VA					1 20 A 3 A RECEPTS	14	
	15	RECEPTS, MEZZANINE C313	4.5 A	20 A	1		540 VA	0 VA				1 20 A -- SPARE	16	
S*	17	HSFs	1.83...	20 A	1				220 VA	720 VA	1	20 A 6 A RECEPT GYM 113	18	
S*	19	HSFs	1.83...	20 A	1	220 VA	360 VA					1 20 A 3 A RECEPT, EMERGENCY MEZZANINE 114D	20	
	21	LU SYSTEM	22.3...	30 A	1		2680 VA	0 VA				1 20 A -- SPARE	22	
	23	LU SYSTEM	22.3...	30 A	1				2680 VA	360 VA	1	20 A 3 A POWER GYM 113	24	
	25	ACCESS CONTROL, 100A, 112, 113	0.25...	20 A	1	30 VA	360 VA					1 20 A 3 A AV RACK - GYM	26	
	27	SPARE	--	20 A	1			0 VA	0 VA			1 20 A -- SPARE	28	
	29	SPARE	--	20 A	1					0 VA	0 VA	1 20 A -- SPARE	30	
	31	SPARE	--	20 A	1	0 VA	--					1 -- -- SPACE	32	
	33	SPARE	--	20 A	1			0 VA	--			1 -- -- SPACE	34	
	35	SPARE	--	20 A	1					0 VA	--	1 -- -- SPACE	36	
	37	SPARE	--	20 A	1	0 VA	--					1 -- -- SPACE	38	
	39	SPARE	--	20 A	1			0 VA	--			1 -- -- SPACE	40	
	41	SPARE	--	20 A	1					0 VA	--	1 -- -- SPACE	42	
		Total Load:				5706 VA		6696 VA				6680 VA		
		Total Amps:				48 A		57 A				57 A		

CIRCUIT BREAKER INFORMATION LEGEND:
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L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5832 VA	100.00%	5832 VA	**Total Conn. Load:**	19082 VA
Receptacle	10880 VA	95.96%	10440 VA	**Total Est. Demand:**	18642 VA
Power	2370 VA	100.00%	2370 VA	**Total Conn.:**	53 A
				Total Est. Demand:	52 A

Notes:
HIGH SPEED FANS TO SHUT OFF UPON SPRINKLER WATER FLOW.

Branch Panel: L2CP1

Location: MECHANICAL 203
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	RECEPTS 4TH GRADE 231, 231A	7.5 A	20 A	1	900 VA	600 VA		1	20 A	5 A	WF CORRIDOR 121R	2	G
	3	RECEPTS 4TH GRADE 231	7.5 A	20 A	1		900 VA	600 VA					4	G
	5	RECEPTS 4TH GRADE 230	7.5 A	20 A	1			900 VA	600 VA	1	20 A	5 A WF CORRIDOR 121R	6	G
	7	RECEPTS 4TH GRADE 230	6 A	20 A	1	720 VA	600 VA					1 20 A 5 A WF CORRIDOR 121R	8	G
	9	AV EQUIPMENT 4TH GRADE 230/231	3 A	20 A	1		360 VA	540 VA				1 20 A 4.5 A EXTERIOR RECEPTS ROOFTOP	10	
	11	GARAGE DOOR 4TH GRADE 230/231	3 A	20 A	1			360 VA	900 VA	1	20 A	7.5 A RECEPTS 5TH GRADE 206	12	
	13	RECEPTS MECH/CUST RM 203, 202.2	4.5 A	20 A	1	540 VA	720 VA					1 20 A 6 A RECEPTS 5TH GRADE 206, 205B	14	
	15	RECEPTS CORRIDOR 121R	3 A	20 A	1		360 VA	900 VA				1 20 A 7.5 A RECEPTS 5TH GRADE 204, 205A	16	
	17	RECEPTS CORRIDOR 121R, COPY RM...	6 A	20 A	1			720 VA	900 VA	1	20 A	7.5 A RECEPTS 5TH GRADE 204	18	
	19	RECEPTS SPED RESOURCE 211	6 A	20 A	1	720 VA	720 VA					1 20 A 6 A RECEPTS BOOK STORAGE 232A, 232	20	
	21	RECEPTS MULTI PURPOSE 202	7.5 A	20 A	1		900 VA	540 VA				1 20 A 4.5 A RECEPTS MEDIA CENTER 232	22	
	23	RECEPTS SPED RESOURCE 212	6 A	20 A	1			720 VA	900 VA	1	20 A	7.5 A RECEPTS MEDIA CENTER 232	24	
	25	RECEPTS MULTI PURPOSE 202	7.5 A	20 A	1	900 VA	360 VA					1 20 A 3 A RECEPTS MEDIA CENTER 232	26	
	27	RECEPTS MULTI PURPOSE 202	6 A	20 A	1		720 VA	720 VA				1 20 A 6 A RECEPTS NORTH-CORRIDOR 121S	28	
	29	PRINTER COPY ROOM 211	1.5 A	20 A	1			180 VA	360 VA	1	20 A	3 A RECEPTS COMPUTER ROOM 201	30	
	31	RECEPTS, CUSTODIAL 208A	4.5 A	20 A	1	540 VA	360 VA					1 20 A 3 A RECEPTS COMPUTER ROOM 201	32	
	33	RECEPTS STORAGE 207, TOILET 208...	6 A	20 A	1		720 VA	360 VA				1 20 A 3 A RECEPTS COMPUTER ROOM 201	34	
	35	AV EQUIPMENT 204/202	4.5 A	20 A	1			540 VA	540 VA	1	20 A	7.5 A RECEPTS COMPUTER 201	36	
	37	EXTERIOR RECEPTS ROOFTOP	3 A	20 A	1	360 VA	360 VA					1 20 A 3 A RECEPTS COMPUTER 201	38	
	39	RECEPTS MECH/CUST 203	1.5 A	20 A	1			180 VA	360 VA	1	20 A	3 A RECEPTS COMPUTER 201	40	
	41	RECEPTS MECH/CUST 203	3 A	20 A	1				360 VA	720 VA	1	20 A 6 A RECEPTS IDF 5200A	42	
	43	RECEPTS COMPUTER 201	3 A	20 A	1	360 VA	540 VA					1 20 A 4.5 A RECEPTS NORTH-CORRIDOR 121S	44	
	45	RECEPTS COMPUTER 201	3 A	20 A	1		360 VA	540 VA				1 20 A 4.5 A RECEPTS PENTHOUSE 235	46	
	47	RECEPTS PENTHOUSE 235	3 A	20 A	1			360 VA	540 VA	1	20 A	4.5 A RECEPTS COLLAB 232A	48	
	49	LIFT CAB LIGHTING	0 A	20 A	1	0 VA	0 VA					1 20 A -- SPARE	50	
	51	COILING DOOR PENTHOUSE 235	1.5 A	20 A	1		180 VA	0 VA				1 20 A -- SPARE	52	
	53	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	-- SPARE	54	
	55	SPARE	--	20 A	1	0 VA	0 VA					1 20 A -- SPARE	56	
	57	SPARE	--	20 A	1		0 VA	0 VA				1 20 A -- SPARE	58	
	59	SPARE	--	20 A	1				0 VA	0 VA	1	20 A -- SPARE	60	
		Total Load:				9300 VA		9240 VA				9600 VA		
		Total Amps:				78 A		77 A				80 A		

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	28140 VA
Receptacle	22920 VA	71.82%	16460 VA	**Total Est. Demand:**	21680 VA
Power	5220 VA	100.00%	5220 VA	**Total Conn.:**	78 A
				Total Est. Demand:	60 A

Notes:

Branch Panel: L2CP2

Location: 3-4 GRADE STORAGE 222
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	RECEPTS STORAGE 222, 220A	6 A	20 A	1	720 VA	720 VA		1	20 A	6 A	RECEPTS INTERVENTION 219	2	
	3	RECEPTS STORAGE 220B	6 A	20 A	1			720 VA	720 VA	1	20 A	6 A RECEPTS 3RD GRADE 227	4	
	5	RECEPTS ART 220	6 A	20 A	1					720 VA	360 VA	1 20 A 3 A AV EQUIPMENT RM 220, 214	6	
	7	RECEPTS ART 220	7.5 A	20 A	1	900 VA	360 VA					1 20 A 3 A AV EQUIPMENT 5TH GRADE 214/206	8	
	9	RECEPTS INSTRUCTIONAL COACH 221	6 A	20 A	1			720 VA	900 VA			1 20 A 7.5 A RECEPTS 3RD GRADE 227	10	
	11	RECEPTS 5TH GRADE 216, 202.2	6 A	20 A	1					720 VA	900 VA	1 20 A 7.5 A RECEPTS 3RD GRADE 226	12	
	13	RECEPTS 5TH GRADE 216	6 A	20 A	1	720 VA	900 VA					1 20 A 7.5 A RECEPTS 3RD GRADE 226	14	
	15	RECEPTS 5TH GRADE 216, 215A, 215B	7.5 A	20 A	1			900 VA	720 VA			1 20 A 6 A RECEPTS 3RD GRADE 225	16	
	17	RECEPTS 4TH GRADE 214	4.5 A	20 A	1					540 VA	900 VA	1 20 A 7.5 A RECEPTS 3RD GRADE 225	18	
	19	RECEPTS 4TH GRADE 214	7.5 A	20 A	1	900 VA	900 VA					1 20 A 7.5 A RECEPTS 3RD GRADE 224	20	
	21	RECEPTS SLP 213	6 A	20 A	1			720 VA	900 VA			1 20 A 7.5 A RECEPTS 3RD GRADE 224, 225A	22	
	23	RECEPTS INTERVENTION 217	6 A	20 A	1					720 VA	360 VA	1 20 A 3 A AV EQUIPMENT 3RD GRADE 224/225	24	
	25	RECEPTS BREAKOUT SPACE 211	4.5 A	20 A	1	540 VA	360 VA					1 20 A 3 A AV EQUIPMENT 3RD GRADE 226/227	26	
	27	RECEPTS EXISTING CORRIDOR 121R	4.5 A	20 A	1			540 VA	360 VA			1 20 A 3 A AV EQUIPMENT 4TH GRADE 228/229	28	
	29	RECEPTS 4TH GRADE 227	7.5 A	20 A	1					900 VA	360 VA	1 20 A 3 A GARAGE DOOR 3RD GRADE 226/227	30	
	31	RECEPTS 4TH GRADE 227	7.5 A	20 A	1	900 VA	360 VA					1 20 A 3 A GARAGE DOOR 4TH GRADE 228/229	32	
	33	RECEPTS 4TH GRADE 228	7.5 A	20 A	1			900 VA	360 VA			1 20 A 3 A GARAGE DOOR 3RD GRADE 224/225	34	
	35	RECEPTS 4TH GRADE 228	6 A	20 A	1					720 VA	900 VA	1 20 A 7.5 A RECEPTS, WEST-CORRIDOR 121S	36	
	37	RECEPTS CORRIDOR 121S	4.5 A	20 A	1	540 VA	720 VA					1 20 A 6 A RECEPTS, WEST-CORRIDOR 121S	38	
	39	RECEPTS COLLAB - PORCH 218	6 A	20 A	1			720 VA	900 VA			1 20 A 7.5 A RECEPTS LEARNING STAIR 152	40	
	41	SPARE	--	20 A	1					0 VA	0 VA	1 20 A -- SPARE	42	
	43	SPARE	--	20 A	1	0 VA	0 VA					1 20 A -- SPARE	44	
	45	SPARE	--	20 A	1			0 VA	0 VA			1 20 A -- SPARE	46	
	47	SPARE	--	20 A	1					0 VA	0 VA	1 20 A -- SPARE	48	
	49	SPARE	--	20 A	1	0 VA	0 VA					1 20 A -- SPARE	50	
	51	SPARE	--	20 A	1		0 VA	0 VA				1 20 A -- SPARE	52	
	53	SPARE	--	20 A	1			0 VA	0 VA			1 20 A -- SPARE	54	
	55	SPARE	--	20 A	1	0 VA	0 VA					1 20 A -- SPARE	56	
	57	SPARE	--	20 A	1		0 VA	0 VA				1 20 A -- SPARE	58	
	59	SPARE	--	20 A	1				0 VA	0 VA	1	20 A -- SPARE	60	
		Total Load:				9540 VA		10080 VA				8100 VA		
		Total Amps:				81 A		86 A				68 A		

CIRCUIT BREAKER INFORMATION LEGEND:
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L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	23040 VA	71.70%	16520 VA	**Total Conn. Load:**	27720 VA
Power	4680 VA	100.00%	4680 VA	**Total Est. Demand:**	21200 VA
				Total Conn.:	77 A
				Total Est. Demand:	59 A

Notes:

Branch Panel: H2CL

Location: MECHANICAL 203
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 100 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	LIGHTING STAIRS S101	0.43...	20 A	1	120 VA	851 VA		1	20 A	3.07...	LIGHTING MEDIA CENTER 231	2	
	3	LIGHTING CORRIDOR 121S	0.25...	20 A	1		624 VA	1670 VA					4	
	5	LIGHTING CORRIDOR 121S	4.31...	20 A	1			1193 VA	0 VA	1	20 A	-- SPARE	6	
	7	LIGHTING 4TH GRADE 230	3.19...	20 A	1	885 VA	0 VA					1 20 A -- SPARE	8	
	9	LIGHTING 5TH GRADE 214	1.38...	20 A	1		383 VA	0 VA				1 20 A -- SPARE	10	
	11	LIGHTING 5TH GRADE 206	3.11...	20 A	1			862 VA	0 VA	1	20 A	-- SPARE	12	
	13	LIGHTING 5TH GRADE 204	1.96...	20 A	1	542 VA	0 VA					1 20 A -- SPARE	14	
	15	LIGHTING COMPUTER 201	1.37...	20 A	1		380 VA	0 VA				1 20 A -- SPARE	16	
	17	LIGHTING SPED RESOURCE 211	0.69...	20 A	1			190 VA	0 VA	1	20 A	-- SPARE	18	
	19	LIGHTING COLLAB ROOMS	0.69...	20 A	1	190 VA	0 VA					1 20 A -- SPARE	20	
	21	LIGHTING 4TH GRADE 228	3.19...	20 A	1		885 VA	0 VA				1 20 A -- SPARE	22	
	23	LIGHTING 3RD GRADE 226	3.19...	20 A	1			885 VA	0 VA	1	20 A	-- SPARE	24	
	25	LIGHTING 3RD GRADE 224	3.19...	20 A	1	885 VA	0 VA					1 20 A -- SPARE	26	
	27	LIGHTING LEARNING STAIRS 121S	2.86...	20 A	1			792 VA	0 VA			1 20 A -- SPARE	28	
	29	LIGHTING 3-4 GRADE STORAGE 222	2.06...	20 A	1				570 VA	0 VA	1	20 A -- SPARE	30	
	31	LIGHTING EXISTING CORRIDOR 121R	3.6 A	20 A	1	997 VA	0 VA					1 20 A -- SPARE	32	
	33	LIGHTING 5TH GRADE 216	1.73...	20 A	1			478 VA	0 VA			1 20 A -- SPARE	34	
	35	LIGHTING COLLAB-PORCH 210/218	3.18...	20 A	1				880 VA	0 VA	1	20 A -- SPARE	36	
	37	SPACE	--	--	1	--	--					1 -- -- SPACE	38	
	39	SPACE	--	--	1			--	--			1 -- -- SPACE	40	
	41	SPACE	--	--	1					--	--	1 -- -- SPACE	42	
		Total Load:				4470 VA		5212 VA				4579 VA		
		Total Amps:				16 A		19 A				17 A		

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ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	14261 VA	100.00%	14261 VA	**Total Conn. Load:**	14261 VA
				Total Est. Demand:	14261 VA
				Total Conn.:	17 A
				Total Est. Demand:	17 A

Notes:

Branch Panel: H2BM

Location: PENTHOUSE 235
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1					9699 VA	42 VA						2	
	3	RTU 118, ROOFTOP	35 A	40 A	3		9699 VA	42 VA					4	S*
	5								3	15 A	0.15 A	KEF 118, ROOFTOP	6	
	7					1663 VA	1663 VA						8	
	9	B 158A	6 A	15 A	3			1663 VA	1663 VA				10	
	11									3	15 A	6 A B 158B	12	
	13					1663 VA	1663 VA						14	
	15	B 158C	6 A	15 A	3			1663 VA	1663 VA				16	
	17									3	15 A	6 A B 158D	18	
	19					1330 VA	1330 VA						20	
	21	BP 158A	4.8 A	15 A	3			1330 VA	1330 VA				22	
	23									3	15 A	4.8 A BP 158B	24	
	25					1330 VA	1330 VA						26	
	27	BP 158C	4.8 A	15 A	3			1330 VA	1330 VA				28	
	29									3	15 A	4.8 A BP 158D	30	
	31	SPARE	--	20 A	1	0 VA	--						32	
	33	SPARE	--	20 A	1			0 VA	--				34	
	35	SPARE	--	20 A	1		0 VA	--					36	
	37	SPARE	--	20 A	1	0 VA	--						38	
	39	SPARE	--	20 A	1			0 VA	--				40	
	41	SPARE	--	20 A	1				0 VA	--			42	
		Total Load:				2664 VA		2664 VA				2664 VA		
		Total Amps:				22 A		22 A				22 A		

CIRCUIT BREAKER INFORMATION LEGEND:
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L = LOCK OUT
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ABBREVIATIONS:
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CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	29225 VA	100.00%	29225 VA	**Total Conn. Load:**	62681 VA
Plumbing	34092 VA	100.00%	34092 VA	**Total Est. Demand:**	62681 VA
				Total Conn.:	75 A
				Total Est. Demand:	75 A

Notes:
* KEF TO BE SHUT TRIPPED - WHEN ANSUL PULLSTATION IS ACTIVATED.

Branch Panel: L2CM

Location: MECHANICAL 203
Supply From: BSB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Bus Amps: 100 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	CU-011, ROOFTOP	0.72...	20 A	2	75 VA	1080 VA		1	20 A	9 A	RCPTS, ROOF	2	
	3						75 VA	180 VA					4	
	5	CU-200A, ROOFTOP	0.72...	20 A	2				1	20 A	1.5 A	RCPTS, ROOF	6	
	7					75 VA	521 VA						8	
	9	UNIT VENTILATOR 201 A/B	10.9...	20 A	1			1308 VA	30 VA				10	
	11	UNIT VENTILATOR 202 A/B	15.9...	20 A	1					1908 VA	224 VA	1	20 A	1.87...	UH-220B, CUH-215B, CUH-205B	12
	13	UNIT VENTILATOR 204 A/B	11.8...	20 A	1	1416 VA	388 VA						1	20 A	3.23...	UH 158A, 158B, 158C, 158D	14
	15	UNIT VENTILATOR 206