NORTH SCOTT COMMUNITY SCHOOL DISTRICT

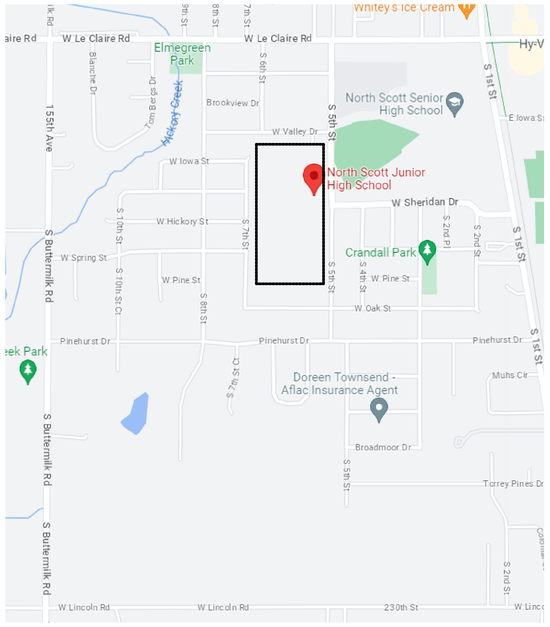
ADDITION AND RENOVATIONS TO JUNIOR HIGH

502 South 5th Street

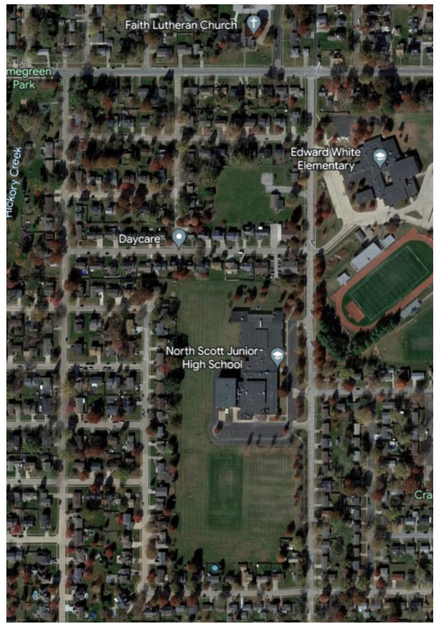
Eldridge, IA 52748

SCHEDULE OF DRAWINGS

SITE LOCATION MAP



CAMPUS PLAN



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BIDDING

DATE OF ISSUE

11.10.2023

ARCHITECT'S PROJECT NUMBER

223049.00

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

RUSSELL

rtm engineering consultants

IMEG

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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TITLE SHEET

G-001
BIDDING

EXIT DOOR SCHEDULE

DOOR EXIT ID	DOOR WIDTH	CLEAR WIDTH (INCHES)	MEANS OF EGRESS CAPACITY FACTOR	CALCULATED EXIT CAPACITY	ACTUAL EXIT CAPACITY
EXIT A	6'-0"	67.5	0.2	338	74
EXIT B	6'-0"	67.5	0.2	338	72

EXIT TRAVEL DISTANCES

EXIT PATH ID	TRAVEL DISTANCE
EXISTING A	104'-9"
EXISTING B	58'-1"
EXIT A	118'-6"
EXIT B	91'-6"

OCCUPANT LOAD SCHEDULE

ROOM ID NUMBER	ROOM NAME	AREA	SF / OCCUPANT	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT LOAD
EXISTING A					
53	ORCHESTRA	2080 SF	7	298	151
53A	OFF	80 SF	200	1	1
53B	OFF	84 SF	200	1	1
				300	153
EXISTING B					
53C	ENSEMBLE	252 SF	15	17	4
53D	ENSEMBLE	162 SF	15	11	2
53E	STOR	213 SF	300	1	1
				29	7
EXIT A					
A103	AG TECH	967 SF	20	49	31
A106	OFFICE	121 SF	200	1	1
A107	OFFICE	114 SF	200	1	1
A108	PRAC	139 SF	200	1	2
A109	PRAC	122 SF	200	1	2
A110	LIB	91 SF	300	1	1
A111	PRAC	97 SF	200	1	2
A112	PRAC	159 SF	200	1	2
A113	WOOD SHOP	1887 SF	20	95	31
A114	STORAGE	173 SF	300	1	1
				152	74
EXIT B					
A104	BAND	2516 SF	7	360	71
A105	STORAGE	198 SF	300	1	1
				361	72
TOTAL OCCUPANCY				842	306

NOTES:
1. OCCUPANT LOADS LISTED IN THE ABOVE SCHEDULE ARE PER IBC 2015 AND ARE INTENDED FOR USE IN EXIT DOOR CAPACITY CALCULATIONS

2. MODIFICATIONS TO THE EXISTING BUILDING ARE OF LIMITED SCOPE AND DO NOT INCREASE THE CURRENT OCCUPANT LOAD OF THE BUILDING NOR THE REQUIRED NUMBER OF EXITS.

3. THE CURRENT OCCUPANT LOAD OF THE BUILDING DOES NOT INCREASE WITH THIS SCOPE OF WORK, THEREFORE NEITHER DO THE PLUMBING FIXTURE REQUIREMENTS, THUS ALLOWING FOR THE OMISSION OF THE PLUMBING FIXTURE COUNT TABLE FROM THIS CODE INFORMATION SHEET.
THE ADDTION OF A SINGLE HOLE TOILET ROOM WAS NOT A CODE REQUIREMENT, AND WAS ADDED FOR CONVENIENCE PURPOSES RELATING TO PROXIMITY FOR THE OCCUPANTS OF THE BAND ROOM AND ADJAENT SPACES.

SAFETY REFERENCE SYMBOLS & ABBREVIATIONS

ROOM NAME / 101	ROOM IDENTIFICATION NUMBER
EXIT #	PRIMARY EXIT NUMBER
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
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
W	EMERGENCY WATER SHUT OFF
FEC	FULLY RECESSED FIRE EXTINGUISHER CABINET
FEC	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC	SEMI-RECESSED FIRE EXTINGUISHER CABINET
EFEC	EXISTING SEMI-RECESSED FIRE EXTINGUISHER CABINET
EFE	EXISTING WALL MOUNTED FIRE EXTINGUISHER
	NOT IN CONTRACT
	AREA OF STEEL STRUCTURE WITH 1 HOUR SPRAY FIRE PROOFING REQUIREMENT

BUILDING DATA - NEW CONSTRUCTION

APPLICABLE CODE	IBC 2015
USE GROUP	E
CONSTRUCTION TYPE (TABLE 601)	IIB
ALLOWABLE HEIGHT (TABLE 504.3)	75 FEET
ACTUAL HEIGHT	26'-8"
ALLOWABLE STORIES ABOVE GRADE (TABLE 504.4)	3
ACTUAL STORIES ABOVE GRADE	1
ALLOWABLE AREA (TABLE 506.2)	58,000 SF
AREA INCREASE DUE TO FRONTAGE (506.3)	XX,XXX SF
MAXIMUM ALLOWABLE AREA	58,000 SF
NEW BUILDING FOOTPRINT	6,500 SF
EXISTING BUILDING FOOTPRINT	105,190 SF
TOTAL BUILDING AREA (EXISTING + NEW)	111,690 SF
AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS	NO

ADDITION WILL BE SEPARATED FROM EXISTING BUILDING WITH A 2-HOUR FIRE WALL.

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	0 HR	
PERIMETER FIRESTOPPING AT EDGE OF SLAB	0 HR	
FIRE WALL (TABLE 706.4)	2 HR	U906
PARTY WALLS (TABLE 706.4)	0 HR	
CORRIDOR WALLS (TABLE 1020.1)	1-HR	
EXTERIOR WALL FIRE SEPARATION DISTANCE (TABLE-602)	1-HOUR: < 5' / 1-HOUR: 5' ≥ X < 10' 0-HOUR: 10' ≥ X < 30' / 0-HOUR: ≥ 30'	

MEANS OF EGRESS - NEW CONSTRUCTION

	NON SPRINKLED
APPLICABLE CODE	IBC 2015
DOOR/CORRIDOR EGRESS WIDTH (1005.3.2)	0.2/PERSON
STAIR EGRESS WIDTH (1005.3.1)	0.3/PERSON
MAX. LENGTH OF EXIT ACCESS TRAVEL (TABLE 1017.2)	200 FEET
MAX. LENGTH OF COMMON PATH EGRESS TRAVEL (TABLE 1006.2.1)	75 FEET
MAX. LENGTH OF DEAD END CORRIDORS (TABLE 1020.4)	20 FEET
MINIMUM CORRIDOR WIDTH (TABLE 1020.2)	72 INCHES

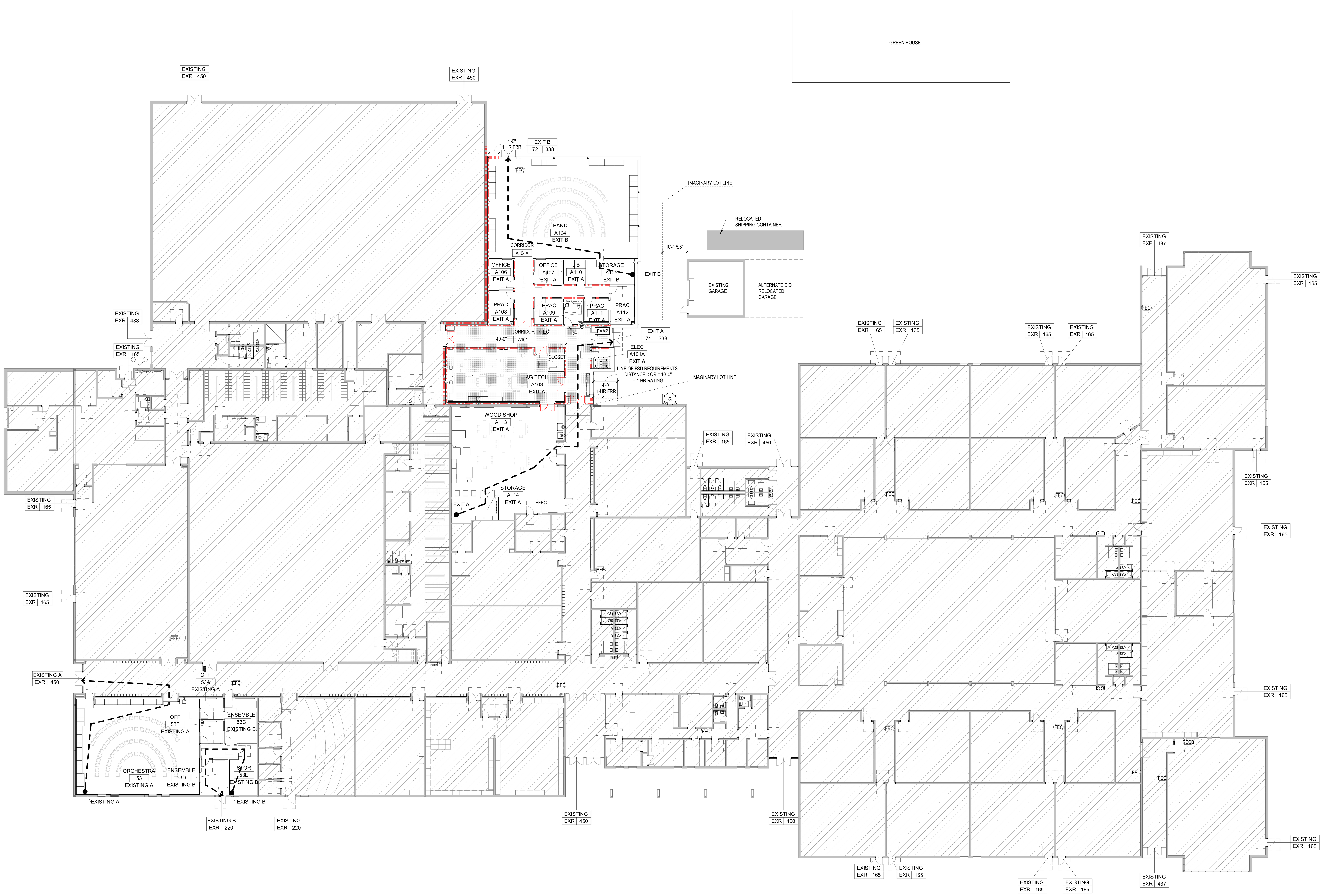
APPLICABLE CODES - NEW CONSTRUCTION

- 2015 INTERNATIONAL BUILDING CODE (IBC)
- 2012 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)
- STATE MECHANICAL CODE
- 2015 INTERNATIONAL PROPERTY MAINTENANCE CODE (IMPC)
- FEDERAL ACCESSIBILITY CODE: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- NFPA 101 LIFE SAFETY CODE, 2012 EDITION

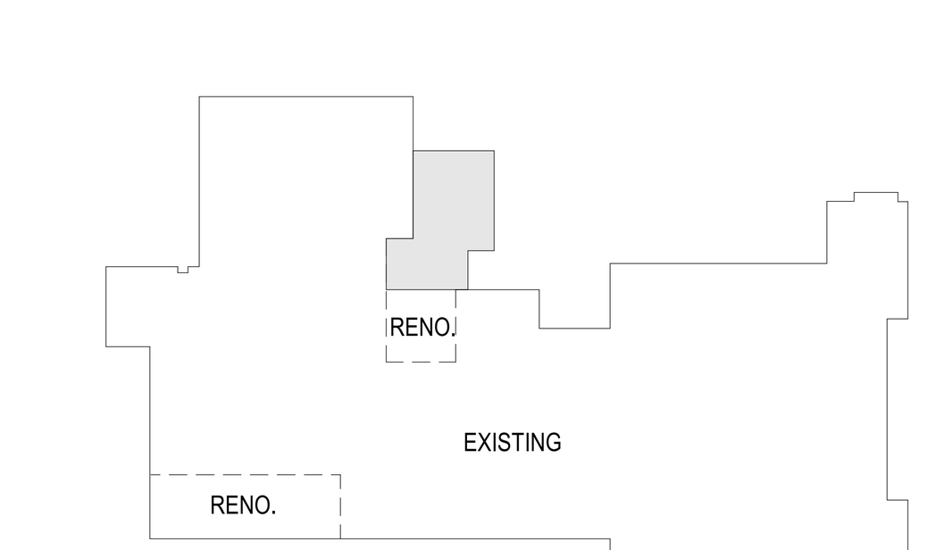
SAFETY REFERENCE NOTES

BAND TOTAL OCCUPANCY: 70 STUDENT CHAIRS + 1 TEACHER = 71
AG TECH TOTAL OCCUPANCY: 30 STUDENT CHAIRS + 1 TEACHER = 31
WOOD SHOP TOTAL OCCUPANCY: 30 STUDENT CHAIRS + 1 TEACHER = 31

ABBREVIATIONS:
EXR: EXISTING OCCUPANCY TO REMAIN



1 FIRST FLOOR LIFE SAFETY PLAN
1/16" = 1'-0"



KEY PLAN

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

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CODE INFORMATION & SAFETY REFERENCE PLANS

G-101
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
B/	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
DLO	DAYLITE OPENING
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DOMESTIC WATER
DWG	DRAWING
EA	EACH
EC	EXPOSED CONSTRUCTION
EF	EACH FACE
EH	EXHAUST HOOD

ABBREVIATIONS

ABB	DESCRIPTION
EHD	ELECTRIC HAIR DRYER
EJ	EXPANSION JOINT
EL / ELEV	ELEVATION
ELEC	ELECTRICAL
EMS	ENTRANCE MAT SYSTEMS
EP	ELECTRICAL PANEL
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EX / EXIST	EXISTING
EXP	EXPOSED
EXR	EXISTING TO REMAIN
F	FLUSH DOOR
F/	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
FEC	FIRE EXTINGUISHER CABINET
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

ABBREVIATIONS

ABB	DESCRIPTION
LTL	LINTEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	MIRROR
MATL	MATERIAL
MAX	MAXIMUM
MB#	MARKER/BOARD (#DENOTES WIDTH, REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
MCM	METAL COMPOSITION MATERIAL
MD	MASONRY DIMENSION
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 TILETACTILE WARNING STRIP
PTW	PORCELAIN TILE WALL
PVC	POLYVINYL CHLORIDE
Q	QUAD POWER OUTLET
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RAD	RADIUS

ABBREVIATIONS

ABB	DESCRIPTION
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
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
T/	TOP OF
TB#	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

ABBREVIATIONS

ABB	DESCRIPTION
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 CONTRACTOR(S) 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 SPECIFICATIONS/IS 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, WAP'S, EXIT SIGNS, & SIMILAR DEVICES IN ACT TILES, U.N.O.
15. INSTALL WOOD BLOCKING AS NEEDED FOR ALL WALL MOUNTED ITEMS.

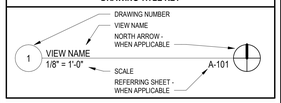
GENERAL FINISH NOTES

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 PRIME PAINTED FOR FULL HEIGHT OF PARTITION OR SOFFIT. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISH PAINTED.
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 MEP/FP 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 SOFT, 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

NOTE: NOT ALL FIXTURES, EQUIPMENT, ACCESSORIES, AND DEVICES SHOWN ARE APPLICABLE FOR THIS PROJECT

LEGAT ARCHITECTS
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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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PROJECT	223049.00
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CHECKED BY	JS

SYMBOLS AND PROJECT GENERAL NOTES

G-201

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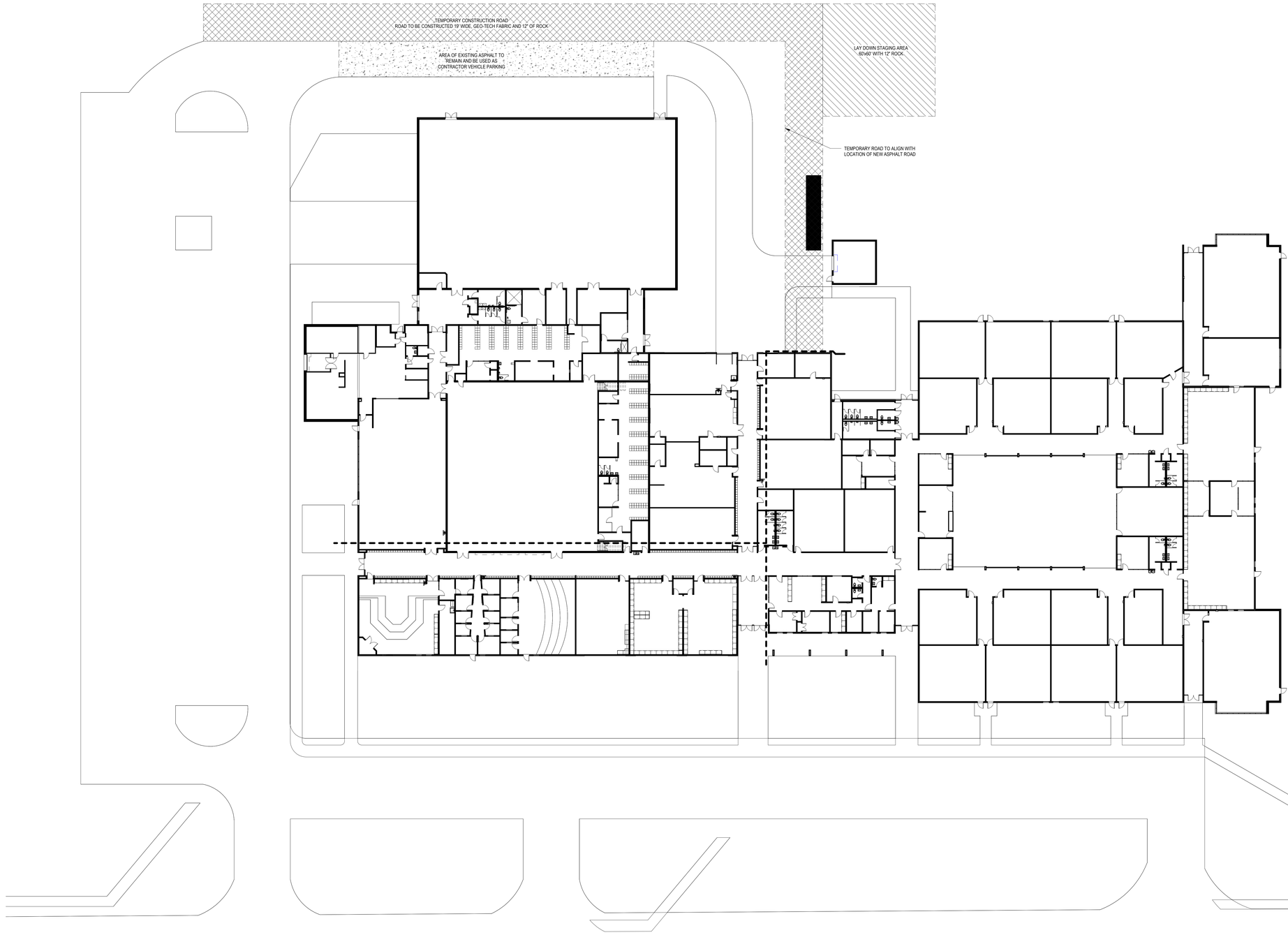

1 SITE LOGISTIC PLAN
1" = 20'-0"

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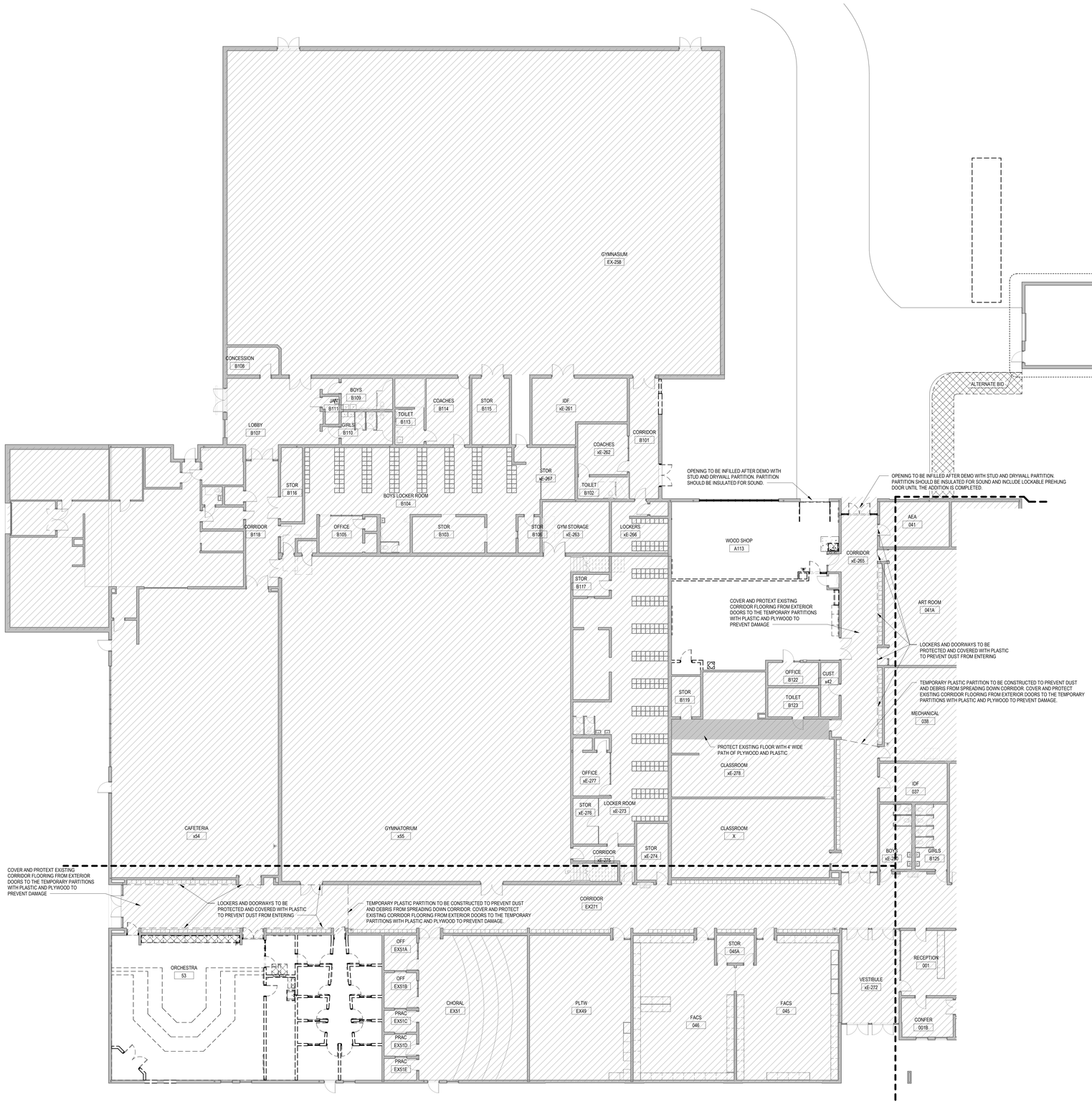
SITE LOGISTIC PLAN

SLP-1
BIDDING



1 SITE LOGISTIC PLAN
3/32" = 1'-0"

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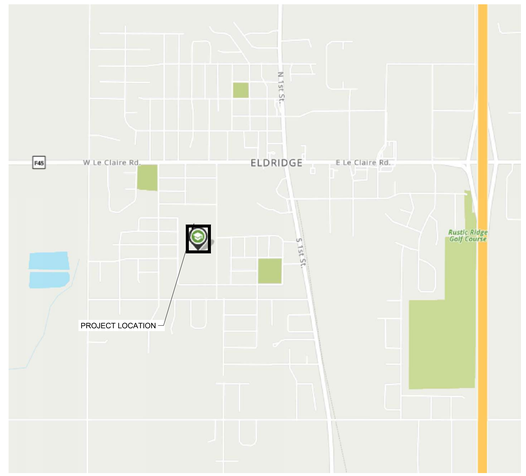
SITE LOGISTIC PLAN

SLP-2
BIDDING

0 10 20 40

Scale: 1" = 20'



LOCATION MAP

FEATURES LEGEND

PROPOSED	EXISTING	
◉		STORM MANHOLE
●		STORM OVERFLOW STRUCTURE
◀	◁	FLARED END SECTION
	◨	DOWNSPOUT
	⧇	GAS METER
——→——	——ST——ST——	STORM SEWER
	——G——G——	GAS LINE
		TREE REMOVAL
		ASPHALT PAVMENT REMOVAL
		PCC SIDEWALK REMOVAL
		PIPE REMOVAL
		BUILDING (GARAGE) REMOVAL

HORIZONTAL CONTROL - NAD 83			
POINT #	NORTHING	EASTING	DESCRIPTION
100	614432.2650	2435534.9860	CP SPIKE
201	614712.6500	2435573.2920	CP MAG
2000	614432.3310	2435535.0170	CHK

811 Know what's below. Call before you dig.

DEMOLITION NOTES

1. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER AND/OR ENGINEER, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANIES' REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
2. PROTECT ALL ITEMS WITHIN THE CONTRACT LIMITS NOT INDICATED TO BE REMOVED.
3. ANY EXISTING FACILITIES THAT ARE DAMAGED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. SAWCUT EDGES OF PAVEMENT FULL DEPTH PRIOR TO REMOVAL TO PREVENT DAMAGE TO ADJACENT SLABS AND FIXTURES.
5. CONTRACTOR SHALL KEEP REQUIRED AREAS SECURE WHEN FENCING OR OTHER BARRIERS ARE NECESSARILY REMOVED.
6. IMMEDIATELY NOTIFY ENGINEER OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY ENGINEER TO RESUME WORK.
7. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. NOTIFY UTILITY COMPANIES TO REMOVE AND RELOCATE UTILITY SERVICES AND FACILITIES AS NEEDED.
9. COORDINATE WITH OWNER OR ADJACENT PROPERTY OWNERS AS NECESSARY WHEN SCHEDULING DISCONNECTION OF UTILITIES OR SERVICE DISRUPTIONS.
10. USE GRANULAR BACKFILL MATERIALS FOR ALL UTILITY EXCAVATIONS WITHIN 2' OF PAVED SURFACES.
11. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF PROPERLY OFF-SITE.

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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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DRAWN BY	LE | CM
CHECKED BY	CM

EXISTING CONDITIONS & DEMOLITION PLAN

C-100

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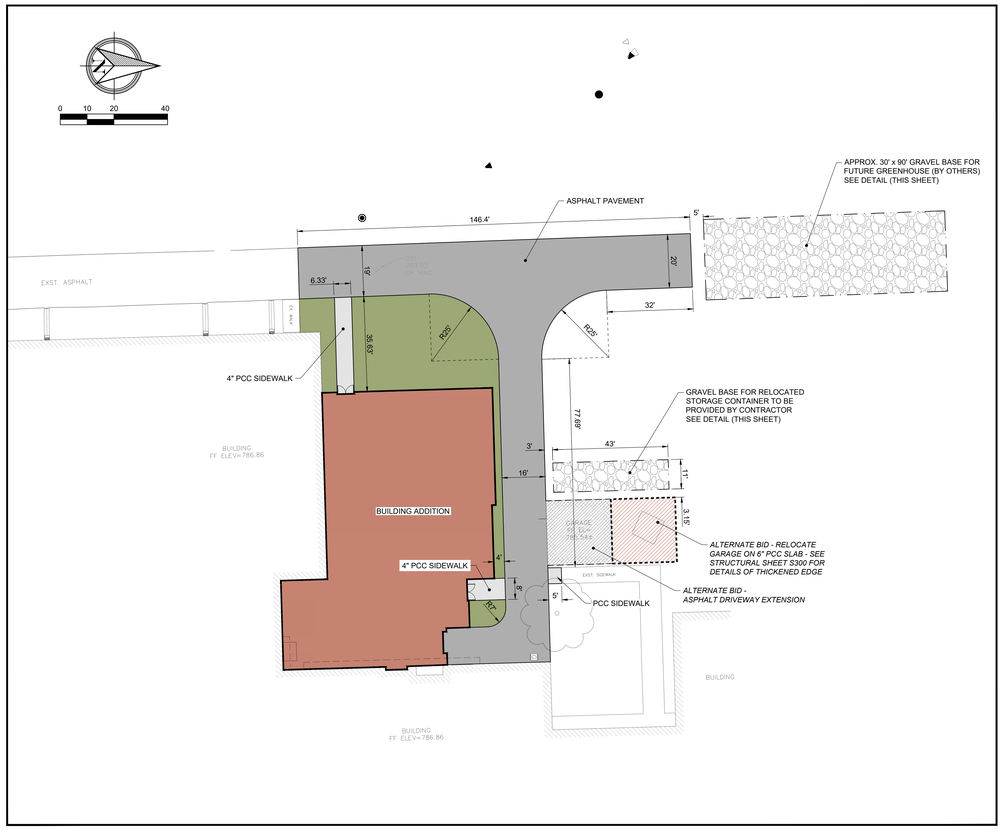
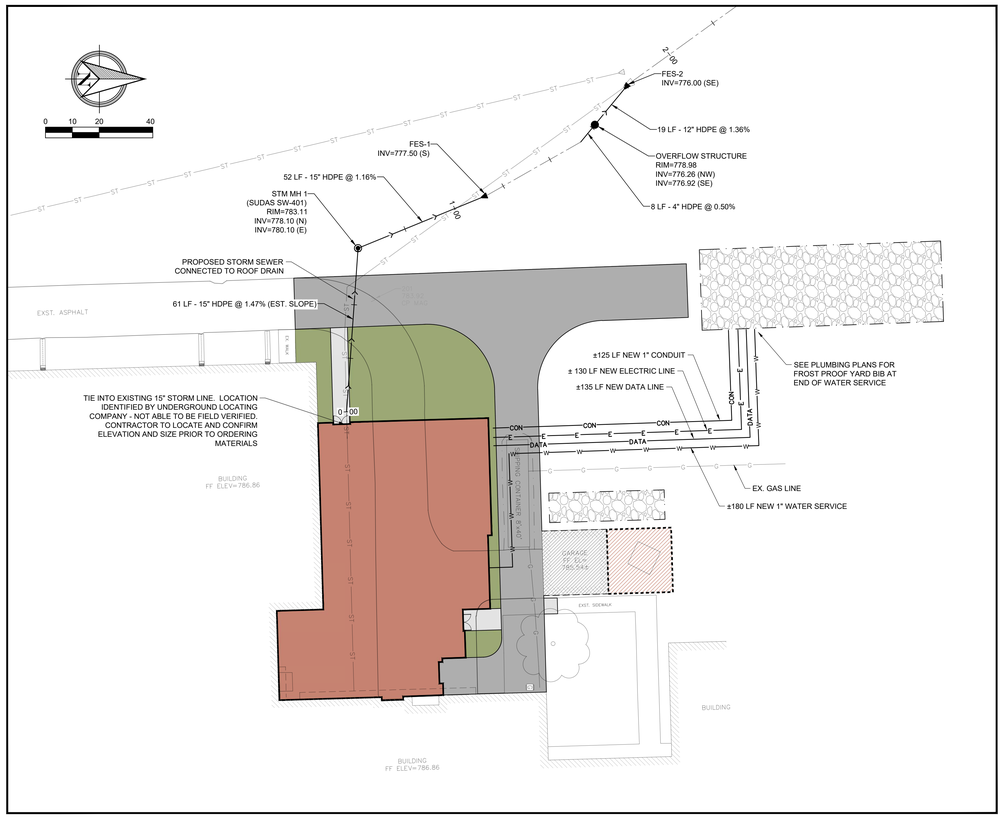


SITE LAYOUT PLAN



UTILITY LAYOUT PLAN

GENERAL NOTES:

1. ALL IMPROVEMENTS SHOWN SHALL COMPLY WITH THE CURRENT EDITIONS OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), CITY OF ELDRIDGE SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS, IOWA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION (WHERE SPECIFIED), AND CITY OF ELDRIDGE CODE OF ORDINANCES AND STANDARDS.
2. TOPOGRAPHIC SURVEY AND BOUNDARY LOCATION FOR THE SITE WAS PROVIDED BY ABBITT LAND SURVEY & DEVELOPMENT.
3. LOCATIONS OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES WERE DETERMINED FROM AVAILABLE SURVEYS, RECORDS, AND FIELD INVESTIGATION. THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. OTHER UTILITIES MAY ALSO EXIST THAT ARE NOT SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES.
4. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, FEATURES, OR ANY OTHER CONFLICTING INFORMATION CONTAINED IN THE PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GRADE EXISTING UTILITIES, PAVED STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SHOWN IN THE PLANS. DAMAGE TO EXISTING UTILITIES, PAVING OR OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
6. IMMEDIATELY NOTIFY ENGINEER OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY ENGINEER TO RESUME WORK.
7. DEVELOPER OR CONTRACTOR RESPONSIBLE FOR ALL FIELD TESTING AND MATERIALS TESTING AS MAY BE REQUIRED BY THE CITY.
8. WORK SHALL BE PERFORMED IN A MANNER WHICH PROVIDES THE LEAST INTERFERENCE AND MOST PROTECTION TO THE PUBLIC. CONTRACTOR'S OPERATIONS SUBJECT TO APPROVAL BY THE CITY PRIOR TO BEGINNING WORK.
9. CONTRACTOR SHALL KEEP REQUIRED AREAS SECURE WHEN FENCING OR OTHER BARRIERS ARE NECESSARILY REMOVED.
10. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
11. KEEP ADJACENT PUBLIC STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT. CLEAN SOIL AND DEBRIS FROM THE ADJACENT STREETS ON A DAILY BASIS AS SOON AS FEASIBLE.

CONSTRUCTION STAKING AND LAYOUT NOTES:

1. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION LAYOUT FOR ALL CONSTRUCTION.
2. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH WORK.
3. PAVING DIMENSIONS SHOWN ARE TO BACK OF CURB AND EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
4. RADII ARE TO EDGE OF PAVEMENT OR TO BACK OF CURB LINE LOCATION UNLESS NOTED OTHERWISE.
5. SIDEWALK CURB RAMPS SHALL BE BUILT IN ACCORDANCE WITH FEDERAL AND STATE ACCESSIBILITY STANDARDS
6. SUBMIT SIDEWALK JOINTING PLAN TO ARCHITECT PRIOR TO CONSTRUCTION.
7. VERIFY LOCATION OF CURB CUTS PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL PROTECT ALL LAND CORNERS, PROPERTY PINS, AND PERMANENT REFERENCE MARKERS UNLESS NOTED OTHERWISE. LAND CORNERS, PROPERTY PINS, AND PERMANENT REFERENCE MARKERS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR IN THE STATE OF IOWA AT THE CONTRACTOR'S EXPENSE.
9. STAKING ELEVATIONS SHALL BE OBTAINED FROM THE PRINTED PLANS. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
10. ELECTRONIC AUTODESK CIVIL3D FILES WILL BE PROVIDED TO AID CONSTRUCTION LAYOUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LAYOUT THE LOCATIONS AND GRADES BASED ON THE PRINTED PLANS, USING THE PROVIDED ELECTRONIC FILES FOR ASSISTANCE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
11. VERIFY ALL COORDINATES PRIOR TO CONSTRUCTION. CHECK HORIZONTAL AND VERTICAL INFORMATION INCLUDING BUT NOT LIMITED TO ALIGNMENTS, LOCATIONS, ELEVATIONS, AND DIMENSIONS, THAT EITHER THE PLANS SHOW OR THE ENGINEER PROVIDES, FOR COMPATIBILITY WITH EXISTING FIELD CONDITIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOR REVIEW PRIOR TO STAKING.

PAVING NOTES:

1. SITE PAVING AND JOINTING: COMPLY WITH DETAILS ON PLANS AND SUDAS STANDARD DETAILS.

UTILITY NOTES:

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ELDRIDGE CODE OF ORDINANCES, CURRENT EDITION OF STATEWIDE URBAN STANDARDS AND SPECIFICATIONS (SUDAS),CITY OF ELDRIDGE STANDARD SPECIFICATIONS AND DETAILED DRAWINGS, AND CURRENT EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (IOWA DOT) WHERE REFERENCED.
2. LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED AS APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT EACH UTILITY COMPANY AND IOWA ONE-CALL FOR LOCATION OF EXISTING LINES IN OR NEAR THE CONSTRUCTION AREA. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN THE DRAWINGS AND THE EXISTING FEATURES.
3. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GRADE EXISTING UTILITIES, PAVED STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SHOWN IN THE PLANS. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY MAJOR CONFLICTS BETWEEN THE DRAWING AND THE EXISTING FEATURES. DAMAGE TO EXISTING UTILITIES, PAVING OR OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
4. NOTIFY UTILITY COMPANIES TO REMOVE AND RELOCATE UTILITIES IF NEEDED.
5. COORDINATE WITH OWNER AND ADJOINING PROPERTIES WHEN SCHEDULING DISCONNECTION OF UTILITIES OR SERVICE DISRUPTIONS.
6. USE GRANULAR BACKFILL MATERIALS FOR ALL UTILITY EXCAVATIONS WITHIN 2' OF PAVED SURFACES.
7. ADJUSTMENTS OF UTILITY FIXTURES, VALVES, AND CASTINGS SHALL BE INCIDENTAL TO THE PAVEMENT AND GRADING ITEMS, UNLESS NOTED OTHERWISE. ANY DAMAGE MADE TO UTILITIES DURING ADJUSTMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
8. EXISTING UTILITY MARKERS SHALL BE CAREFULLY REMOVED, STORED, AND REINSTALLED AS REQUIRED FOR CONSTRUCTION. UTILITY MARKERS LOST OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

STORM SEWER NOTES:

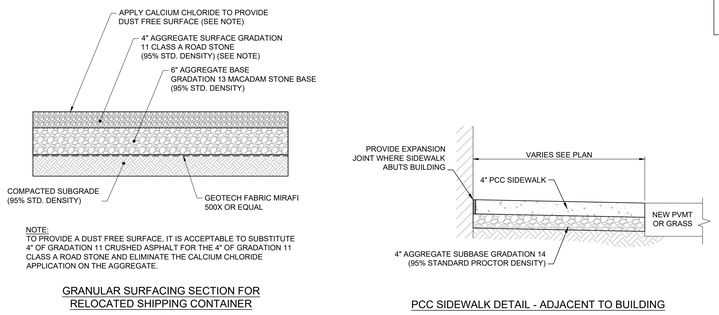
1. SEE CITY OF ELDRIDGE SPECIFICATIONS FOR ALLOWABLE PIPE MATERIALS.
2. LENGTHS OF PIPE RUNS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES. SLOPES AND LENGTHS ARE BASED UPON THOSE MEASUREMENTS.
4. ADHERE TO ALL IOWA DNR WATER AND SEWER SEPARATION REQUIREMENTS.

TRENCH EXCAVATION AND BACKFILL:

1. EXCAVATE TRENCH TO UNIFORM WIDTHS AS SHOWN IN STANDARD DETAILS. TRENCH BOTTOM SHALL PROVIDE A SMOOTH, FIRM, STABLE, AND ROCK FREE FOUNDATION FOR THE ENTIRE LENGTH OF THE PIPE.
2. FOR UTILITIES IN FILL, CONSTRUCT COMPACTED EMBANKMENT TO A MINIMUM OF 2' ABOVE TOP OF PIPE ELEVATION PRIOR TO TRENCHING.
3. NOTIFY OWNER IF UNSUITABLE MATERIALS EXIST IN THE TRENCH. OVEREXCAVATE AS DEEMED NECESSARY BY THE OWNER, AND INSTALL TRENCH STABILIZATION MATERIAL BELOW THE BEDDING ELEVATION TO PROVIDE FOR PROPER PIPE OR STRUCTURE SUPPORT.
4. BACKFILL WITH GRANULAR MATERIALS AS SPECIFIED ABOVE TO 1' ABOVE PIPE FOR FLEXIBLE PIPE MATERIALS AND TO SPRINGLINE FOR RIGID PIPE MATERIALS.
5. REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EXCAVATED MATERIALS IN LOCATIONS BEYOND 2' OF PAVED SURFACES. USE GRANULAR BACKFILL MATERIALS WITHIN 2' OF PAVED SURFACES AS SPECIFIED ABOVE.
6. PLACE AND COMPACT SPECIFIED BACKFILL MATERIALS TO THE PROPOSED SUBGRADE OR SURFACE ELEVATIONS. COMPACT TO 95% OF STANDARD PROCTOR DENSITY BENEATH PAVEMENT AND WITHIN PUBLIC RIGHT-OF-WAY AND 90% OF STANDARD PROCTOR DENSITY IN OTHER LOCATIONS.

UTILITY NOTE

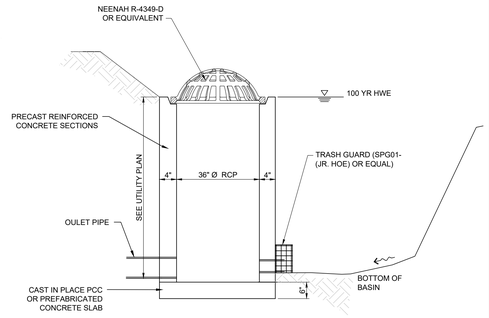
ALL UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO THE ENGINEER. THERE MAY BE OTHER EXISTING UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES NOT KNOWN AND NOT SHOWN ON THIS THESE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CALL IOWA ONECALL (1-800-292-8989) FOR UTILITY LOCATES A MINIMUM OF 48-HOURS PRIOR TO DIGGING. REVIEW EXISTING UTILITY RECORDS SUPPLIED BY THE ARCHITECT AND PERFORM EXPLORATORY DIGGING AS NECESSARY TO VERIFY UTILITIES PRIOR TO ORDERING MATERIALS AND CONSTRUCTION OF IMPROVEMENTS.



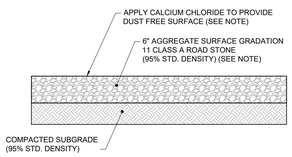
NOTE:
TO PROVIDE A DUST FREE SURFACE, IT IS ACCEPTABLE TO SUBSTITUTE 4" OF GRADATION 11 CRUSHED ASPHALT FOR THE 4" OF GRADATION 11 CLASS A ROAD STONE AND ELIMINATE THE CALCIUM CHLORIDE APPLICATION ON THE AGGREGATE.

GRANULAR SURFACING SECTION FOR RELOCATED SHIPPING CONTAINER
N.T.S.

PCC SIDEWALK DETAIL - ADJACENT TO BUILDING
N.T.S.



TYPICAL DETENTION OUTFALL STRUCTURE
N.T.S.



NOTE:
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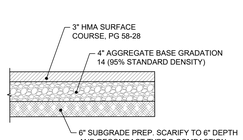
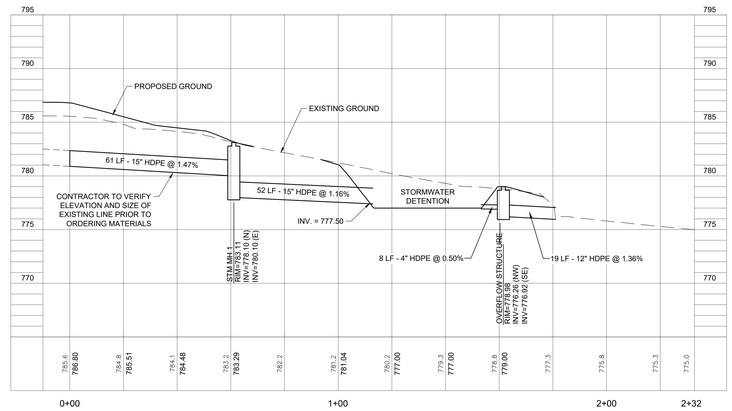
GRANULAR SURFACING SECTION FOR FUTURE GREENHOUSE
N.T.S.



TYPICAL HMA PAVEMENT SECTION
N.T.S.



STORM SEWER PROFILE

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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SIGNATURE
DATE

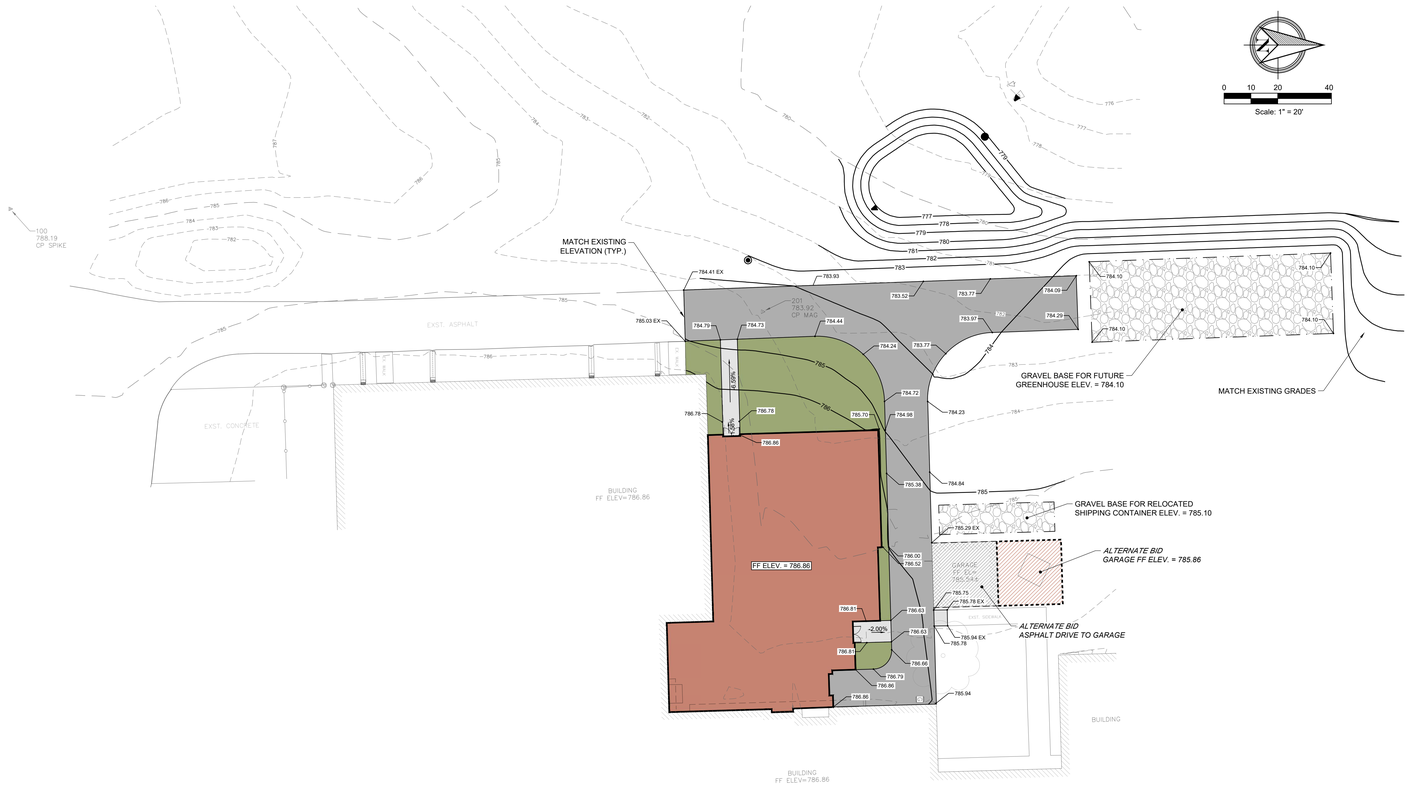
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	223049.00
DATE OF ISSUE	11.10.23
DRAWN BY	LE | CM
CHECKED BY	CM

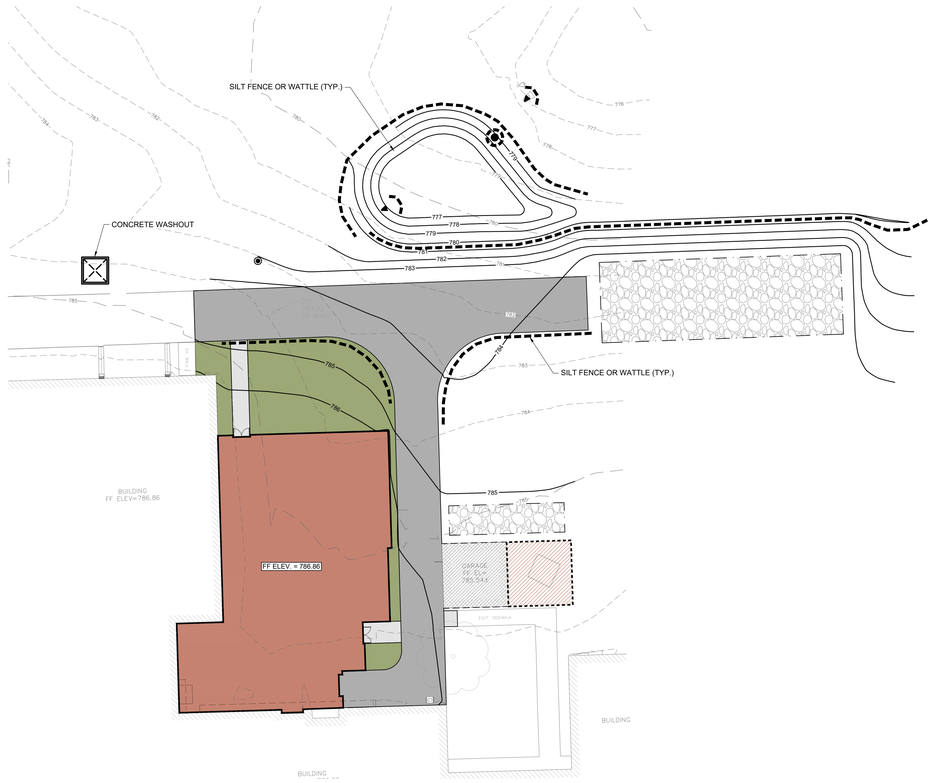
SITE LAYOUT AND UTILITY PLAN

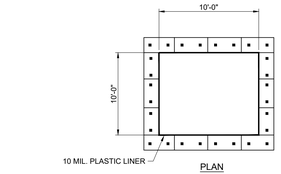
C-101
ISSUED FOR BIDDING



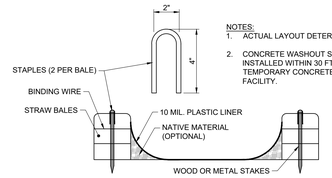
EROSION CONTROL NOTES:

1. CONTRACTOR SHALL FOLLOW THE IOWA DNR REGULATIONS AND THE CITY OF ELDRIDGE GUIDELINES FOR EROSION CONTROL
2. PROJECT IS COVERED UNDER A GENERAL NPDES PERMIT FOR CONSTRUCTION SITE ACTIVITIES. IT IS STILL THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, MONITOR, INSPECT, AND MAINTAIN SITE EROSION CONTROL BEST MANAAGEMENT PRACTICES IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AT ALL TIMES.
3. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITH NO PONDING.
4. EROSION CONTROL MUST BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS (OR AS SOON AS PRACTICAL). IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, SEDIMENT TRAPS, CHECK DAMS, DIVERSION SWALES, ETC. AS REQUIRED UNTIL VEGETATION IS ESTABLISHED.
5. LOCATION OF EROSION CONTROL BARRIER SHOWN ON PLAN IS APPROXIMATE ONLY. ACTUAL PLACEMENT TO BE DETERMINED BY CONTRACTOR AND RELOCATED AS NECESSARY DURING PROGRESSION OF CONSTRUCTION ACTIVITIES.
6. RUNS OF WATTLES, SILT FENCE, OR EROSION BARRIER SHALL NOT EXCEED 200 FEET.
7. THE LAST 20 FEET OF A RUN OF SILT FENCE OR EROSION BARRIER SHALL FLARE UP THE SLOPE OR IN THE DIRECTION FROM WHICH THE FLOW ORIGINATES.
8. INCORPORATE A MEANS OF EMERGENCY BYPASS TO PREVENT FLOODING DURING LARGE STORM EVENTS OR IF FILLED WITH SEDIMENT.
9. CONTRACTOR SHALL PREVENT OFF-SITE TRACKING OF SEDIMENT. ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS SHALL BE REMOVED AS SOON AS PRACTICAL.
10. ALL DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, FINE GRADED, SEEDED, AND FERTILIZED. AREA TO BE COVERED WITH EROSION CONTROL BLANKETS OR OTHER METHOD APPROVED BY ARCHITECT.
11. ALL DEVICES AND MATERIALS ARE TO BE REGULARLY CHECKED, CLEANED OUT, AND REPAIRED AS NEEDED AND IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
12. IF NO ACTIVITY OCCURS OR IS ANTICIPATED FOR 14 DAYS, AREA SHALL BE STABILIZED WITHIN 7 DAYS OF LAST ACTIVITY.





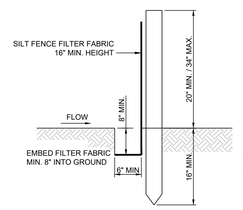
PLAN



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

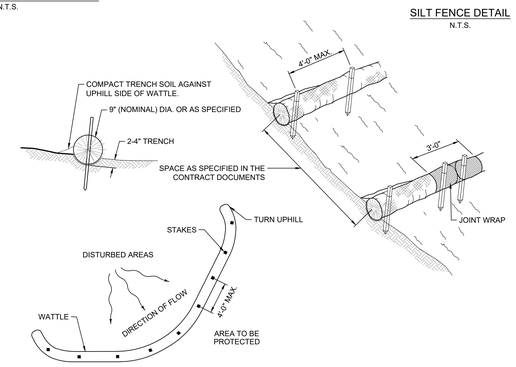
SECTION

TEMPORARY CONCRETE WASHOUT
N.T.S.



NOTES:
1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO ALIGNMENT LENGTH TO AVOID JOINTS.
2. FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE OF THE SUPPORT POSTS USING ONE INCH MIN., LONG HEAVY-DUTY WIRE STAPLES OR TIE WIRES WITH EIGHT INCHES MIN. OF FABRIC EXTENDED INTO THE TRENCH. DO NOT STAPLE FABRIC TO TREES.
3. COMPACTED SOIL BACKFILL SHALL BE PLACED IN THE 8" BY 6" TRENCH ATOP THE EXTENDED FABRIC.
4. POSTS SHALL BE CONSTRUCTED OF 2" BY 2" HARDWOOD OR 2" BY 4" PINE BY 60" LONG OR AS AN ALTERNATE USE STEEL "T" OR "U" TYPE.
5. FILTER FABRIC SHALL BE NON-WOVEN "MIRAFI 100X" OR EQUAL.
6. SPACING OF POSTS SHALL BE A MAXIMUM OF 10'.

SILT FENCE DETAIL
N.T.S.



WATTLE FOR EROSION CONTROL
N.T.S.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

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DATE OF ISSUE	11.10.23
DRAWN BY	LE | CM
CHECKED BY	CM

SITE GRADING AND EROSION CONTROL

C-102

ISSUED FOR BIDDING

DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:

   IBC 2015
   ASCE 7-10
   ACI 318-14
   AISC 360-10
   AISI S100
   AWS D1.1, AND D1.3
2. RISK CATEGORY III
3. LIVE LOADS:

TYPICAL ROOF	20 PSF (REDUCIBLE)

4. SNOW:

GROUND SNOW	25 PSF
SNOW EXPOSURE FACTOR	1.0
THERMAL FACTOR	1.0
IMPORTANCE FACTOR	1.1
FLAT-ROOF SNOW	22 PSF
SEE S-001 FOR SNOW DRIFT PLAN	

5. SEISMIC:

SEISMIC DESIGN CATEGORY	B
IMPORTANCE FACTOR	1.25
SOIL CLASS	D
Ss	0.091 g
S1	0.063 g
Sds	0.097 g
Sd1	0.101 g
SEISMIC FORCE RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
R	2
Cd	1 3/4
Ωo	2 ½
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR, STRENGTH LEVEL	V = Cs x W = 0.0607 x 952 = 57.8 KIPS

6. WIND:

BASIC WIND SPEED	V ULT = 120 MPH		
IMPORTANCE FACTOR	1.15		
EXPOSURE CLASS	B		
STORY DRIFT	½"		
INTERNAL PRESSURE COEFFICIENT, GCpi	± 0.18		
ROOF COMPONENTS:	ZONE 1	ZONE 2	ZONE 3
SUPPORT BEAMS (A > 200 SF)	28.1 PSF	30.3 PSF	30.2 PSF
ROOF SHEATHING (A = 50 SF)	28.1 PSF	30.9 PSF	34.2 PSF
DECK FASTENERS (A ≤ 10 SF)	28.1 PSF	32.5 PSF	43.4 PSF
WALL COMPONENTS:	ZONE 4	ZONE 5	
A = 100 SF	22.2 PSF	24.6 PSF	
A = 50 SF	23.2 PSF	26.7 PSF	
A ≤ 20 SF	24.6 PSF	29.5 PSF	
BASE SHEAR, STRENGTH LEVEL	V = 12.6 KIPS, GRID D V = 6.6 KIPS, GRID 4		

   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 PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.
7. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY SHEAR WALLS IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE STEEL DECKS 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.
2. ALL DRAWINGS 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 SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK 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 ARCHITECT.
3. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
5. 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.
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 SO 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. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER 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.
11. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
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 VERIFIED PRIOR TO FORMING.
13. NO BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
14. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH PARTY SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH CONDITIONS IN FIELD, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.

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 ARCHITECT/STRUCTURAL ENGINEER.
3. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

EXISTING CONDITIONS / DEMOLITION

1. EXISTING CONDITIONS:
   a. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS:
      i. DATED 02/14/1974 BY BRAKE HAYES MILLER, ARCHITECTS.
      ii. DATED 07/09/1998 BY BRAKE HAYES MILLER, ARCHITECTS.
   b. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. 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 OR STRUCTURAL ENGINEER SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.
2. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY SO AS TO NOT DAMAGE 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. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED 06/27/2023 BY TEAM SERVICES, INC. REPORT IS ON FILE WITH THE ARCHITECT.
2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT:

ALLOWABLE NET SOIL BEARING PRESSURE:	
FOOTINGS	2,000 PSF [DL+LL]
ANTICIPATE DEPTH TO ALLOWABLE SOIL BEARING	3.5 FT BELOW EXISTING GRADE
FROST DEPTH	18 IN (HEATED) 42 IN (UNHEATED)

3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING.
4. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS NOT ENCOUNTERED IN THE BORINGS. DETAILS OF GROUND WATER INFORMATION CAN BE OBTAINED FROM THE ABOVE-MENTIONED GEOTECHNICAL REPORT. IF GROUND WATER SHOULD OCCUR DURING EXCAVATION, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
5. 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/ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOUNDATIONS, UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
6. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL, ORGANIC MATERIAL, OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL REPORT. EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED BELOW SLABS ON GRADE.
7. THE PREPARATION OF THE SUBGRADE FOR THE SLAB ON GRADE SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
8. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE AS DIRECTED BY GEOTECHNICAL ENGINEER ON SITE.
9. ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN 12" LAYERS TO 95% MAXIMUM DRY DENSITY PER ASTM D698 AND TO THE APPROVAL OF THE INSPECTION AGENCY.
10. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT.
11. ANY REQUIRED IMPORT FILL SOIL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (SP-066) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.
2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:

DEFORMED BARS	ASTM A615, GR 60	Fy = 60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy = 65 KSI
DEFORMED EPOXY-COATED BARS	ASTM A775	Fy = 60 KSI

3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:

CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
#6 BARS OR LARGER	2"
#5 BARS OR SMALLER	1 1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, JOIST AND WALLS WITH #14 AND #18 BARS	1 1/2"

4. BAR SPLICES: SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS:

BAR SIZE	3000 PSI CONCRETE		4000 PSI CONCRETE	
	OTHER	TOP	OTHER	TOP
#3	22	28	19	25
#4	29	38	25	33
#5	36	47	31	41
#6	43	56	37	49
#7	63	81	54	71
#8	72	93	62	81
#9	81	105	70	91

   LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.
5. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH AWS D1.4.
6. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED.
7. SUPPORTS FOR COATED REINFORCEMENT SHALL HAVE CLASS 1 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED.
8. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 PANELS AT EDGES AND ENDS.
9. CONTINUOUS HORIZONTAL REINFORCING SHALL BE LAPPED AT MIDSPAN FOR TOP BARS AND DIRECTLY OVER SUPPORTS FOR BOTTOM BARS. AT DISCONTINUOUS ENDS, THE TOP STEEL SHALL BE BENT DOWN 12 BAR DIAMETERS OR 12" MINIMUM, WHICHEVER IS GREATER.
10. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS OTHERWISE NOTED. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF WALL OR COLUMN REINFORCEMENT. EXTEND DOWELS A LAP SPLICE LENGTH INTO WALL OR COLUMN AND TERMINATE WITH STANDARD HOOK AT BOTTOM OF FOOTING, UNLESS OTHERWISE NOTED.
11. REINFORCING IN WALL FOOTINGS BETWEEN COLUMNS SHALL BE DEVELOPED (Ld) INTO COLUMN FOOTINGS.
12. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS OR SLEEVES IS NOT ACCEPTABLE.
13. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
14. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
15. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR BOLTS, LEVELING PLATES, AND DOWEL BARS AS REQUIRED.
16. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT, INCLUDING CONCRETE COVER. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.
17. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL BE REINFORCED TO THE MINIMUM REQUIREMENT OF ACI 318.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE CORRESPONDING EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066, UNLESS OTHERWISE NOTED.
2. CONCRETE MATERIALS SHALL CONFORM TO:

CEMENT	ASTM C150, TYPE I OR II
FLY ASH	ASTM C618, TYPE C OR F
FINE AND COARSE AGGREGATE	ASTM C33
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER REDUCING ADMIXTURE	ASTM C494

   CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDEDUSE	STRENGTH(PSI)	EXPOSURE CLASS
INTERIOR FOUNDATIONS/FOOTINGS	3000	F0,S0,C0,W0
EXTERIOR FOUNDATIONS/FOOTINGS	4000	F1,S0,C1,W1
SLAB ON GRADE	3000	F0,S0,C0,W0
UNLESS OTHERWISE NOTED	4000	F1,S0,C1,W1

   NORMAL-WEIGHT 28-DAY STRENGTH UNLESS OTHERWISE NOTED.

   3.DRYPACK OR GROUT SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
4. SLAB-ON-GRADE CONSTRUCTION: LOCATE SAW-CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNLESS OTHERWISE NOTED. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR SPECIAL CASES.

THICKNESS (IN)	MAXIMUM JOINT SPACING EACH WAY (FT)
5	10

5. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ENSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, AND EDGES OF WALLS/FOUNDATIONS PRIOR TO PLACING CONCRETE.
6. UNLESS OTHERWISE NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
7. CONSTRUCTION JOINTS SHALL BE CLEAN BEFORE POUR. LOCATION TO BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATION PLAN OF ALL PROPOSED JOINTS NOT INDICATED ON DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.
8. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL ENSURE ALL REINFORCING AND EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS, ARE PROPERLY LOCATED AND SECURELY TIED IN PLACE.
9. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS.
10. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE.
11. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
12. PROJECTING CORNERS OF WALLS, PIERS, ETC., SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
13. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1 INCH, SEE DETAILS FOR ADDITIONAL REINFORCING.
14. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.
15. IF CONCRETE IS PLACED BY PUMPING, SUPPORT SHALL BE PROVIDED FOR THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING AND OTHER EMBEDDED ITEMS.
16. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND.
17. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
18. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING AND RESHORING, AS WELL AS THEIR CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
19. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
20. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON STEEL DECK AND SLAB-ON-GRADE.
21. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.

MASONRY

1. CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES".
2. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE:

DESIGN ASSEMBLY STRENGTH, f'm	2500 PSI
INDIVIDUAL CONCRETE MASONRY UNITS	3250 PSI
GROUT	2500 PSI

3. CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS	ASTM C90, NORMAL WEIGHT
MORTAR	ASTM C270, TYPE S
GROUT	ASTM C476
JOINT REINFORCING	ASTM A82

4. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS EXCEPT BARS LARGER THAN #9 SHALL BE MECHANICALLY SPLICED:

   ASD:

MINIMUM LAP SPLICE LENGTH		
BAR SIZE	f'm = 2500 PSI	
	8" CMU	10" CMU
#3	12	12
#4	13	12
#5	20	16
#6	38	29

5. 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 JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING:

RUNNING BOND	9 GA @ 16" OC (ALL WIDTHS)
BELOW GRADE WALLS	9 GA @ 8" OC

6. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS.
7. GROUT SOLID ALL JAMBS FULL HEIGHT IN LOAD BEARING CMU WALLS TO UNDERSIDE OF LINTEL PLUS ONE CELL BEYOND BEARING LENGTH.
8. PROVIDE MINIMUM 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNLESS OTHERWISE NOTED. VERTICAL REINFORCING BARS SHALL SECURELY BE HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING.
9. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED.
10. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL.
11. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.
12. LIFTS OF GROUT SHALL BE KEYED 1 1/2 INCHES INTO THE PREVIOUS COURSE BELOW.
13. HORIZONTAL BAR REINFORCEMENT IN BOND BEAMS SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
14. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS, UNLESS OTHERWISE NOTED.
15. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND, UNLESS OTHERWISE NOTED.
16. PROVIDE HORIZONTAL TIES WHERE CMU ABUTS CONCRETE.

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS THAT IS 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 SHALL BE SIZED PER THE FOLLOWING:

SPAN, L	STEEL OPTION (FOR EA 4" OF MASONRY) *
0' < L ≤ 4'-0"	L3 1/2x3 1/2x1/4
4'-0" < L ≤ 6'-0"	L4x3 1/2x5/16 (LLV)
6'-0" < L ≤ 8'-0"	L5x3 1/2x5/16 (LLV)
8'-0" < L ≤ 10'-0"	L6x3 1/2x3/8 (LLV)

SPAN, L	8" NON-LOAD BEARING BLOCK
0' < L ≤ 4'-0"	8" DEEP W/ (1) #4 BOTT
4'-0" < L ≤ 6'-0"	8" DEEP W/ (2) #4 BOTT
6'-0" < L ≤ 8'-0"	16" DEEP W/ (1) #4 BOTT
8'-0" < L ≤ 10'-0"	16" DEEP W/ (2) #5 BOTT

   *ALL ANGLES THAT ARE BACK-TO-BACK SHALL BE WELDED TOP AND BOTTOM 3" @ 12" OC MINIMUM.
4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES, UNLESS OTHERWISE NOTED.
5. TEMPORARY SHORING OF MASONRY LINTELS MUST BE PROVIDED UNTIL MASONRY HAS REACHED 75% OF DESIGN STRENGTH.
6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNLESS OTHERWISE NOTED.

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 SHAPES	ASTM A992	Fy = 50 KSI
OTHER ROLLED SHAPES	ASTM A36	Fy = 36 KSI
HSS SECTION, SQ/RECT	ASTM A500, GR C	Fy = 50 KSI
BASE AND CONNECTION PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fv = 120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED STUD ANCHORS	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, UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
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. 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.
7. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
8. 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.
9. 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.
10. 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.
14. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
15. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
16. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
17. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 8,000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
18. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW 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:

JOIST TYPE		DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING (IN)	
SERIES	JOIST SEAT DEPTH	FILLET WELD SIZE	WELD LENGTH (IN)	BOLT DIAMETER (IN)	BOLT MATERIAL	STEEL	MASONRY
K	4"	1/8	2	1/2	A307	2 1/2	4
LH 08-12	5"	1/4	2	3/4	A307	4	6

   WHERE WELDS OR BOLTS ARE INDICATED, WELD/BOLT TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT UNLESS OTHERWISE NOTED.
3. DESIGN JOIST SEAT FOR 2500 LBS (1.0 WL) ROLLOVER LOAD FOR K-SERIES JOIST ONLY.
4. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED WITHIN THE DESIGN CRITERIA AND LOADS SECTION. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATIONS, THE JOIST MANUFACTURER SHALL PROVIDE DIRECTION FOR REMOVAL AND REPLACEMENT OF ANY BRIDGING.
5. PROVIDE ANCHORS AT EACH END OF EACH ROW OF BRIDGING TOP AND BOTTOM CHORDS, EXCEPT AT EXPANSION JOINTS.
6. ALL JOIST HEADERS AND ACCESSORIES SHALL BE DESIGNED AND FURNISHED BY THE JOIST FABRICATOR.
7. STEEL JOISTS SHALL BE TOP CHORD BEARING UNLESS OTHERWISE NOTED ON PLANS.
8. PROVIDE BOTTOM CHORD CEILING SUPPORT EXTENSIONS WHERE SHOWN ON THE ARCHITECTURAL DRAWINGS.
9. THE JOIST FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL BAR JOIST MATERIAL AND ACCESSORIES FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION. JOIST DESIGNATIONS ON THE SHOP DRAWINGS SHALL BE THE SAME NUMBERS AS SHOWN IN THE SJI MANUAL.

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. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 4TH EDITION FOR DIAPHRAGM LOADS
3. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
4. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
5. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAUGE.
6. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT PROVIDED BY THE STEEL FABRICATOR.
7. CUTTING AND FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES THAT ARE LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR.
8. COORDINATE ALL PENETRATIONS, EMBEDS, AND RECESSES IN COMPOSITE FLOOR SYSTEMS WITH THE STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED.
9. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES 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, UNLESS OTHERWISE NOTED.
10. SUBMIT SHOP DRAWINGS SHOWING ERECTION PROCEDURES, WELDING PROCEDURES, VERTICAL LOAD AND DIAPHRAGM SHEAR CAPACITY FURNISHED, DECK SHORING REQUIREMENTS, UNDERWRITER'S LABORATORIES (UL) FIRE RATING NUMBER AND COMPOSITE BEAM AND GIRDER STUD PROFILES TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW. FABRICATION SHALL NOT BEGIN WITHOUT APPROVED SHOP DRAWINGS.

POST-INSTALLED ANCHORS

1. ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATIVE ANCHORS MAY BE SUPPLIED PROVIDED THE QUANTITY AND CONFIGURATION MATCH THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. BELOW SUMMARIZES EACH ANCHOR TYPE USED ON THE PROJECT.
2. MECHANICAL ANCHORS:
   a. EXPANSION ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
GROUTED MASONRY	HILTI KB3 (ESR-1385)	DEWALT POWER STUD+ SD1 (ESR-2966) SIMPSON WEDGE-ALL (ESR-1396)
UNCRACKED CONCRETE	HILTI KB3 (ESR-2302)	DEWALT POWER STUD+ SD2 (ESR-2502) RED HEAD TRUBOLT+ (ESR-2427) SIMPSON STRONG BOLT 2 (ESR-3037)
CRACKED CONCRETE	HILTI KBTZ (ESR-1917)	DEWALT POWER STUD+ SD2 (ESR-2502) RED HEAD TRUBOLT+ (ESR-2427) SIMPSON STRONG BOLT 2 (ESR-3037)

   b. THREADED SCREW ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
GROUTED MASONRY	HILTI KWIK HUS-EZ (ESR-3056)	DEWALT WEDGE-BOLT+ (ESR-1678) SIMPSON TITEN HD (ESR-1056)
UNCRACKED CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)	DEWALT POWER SCREW-BOLT+ (ESR-3889) SIMPSON TITEN HD (ESR-2713)
CRACKED CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)	DEWALT POWER SCREW-BOLT+ (ESR-3889) SIMPSON TITEN HD (ESR-2713)

3. ADHESIVE ANCHORS: SHALL CONSIST OF DEFORMED REINFORCING BARS OR ASTM A193 GRADE B7 RODS, HEAVY DUTY NUTS AND WASHERS AND A TWO COMPONENT STRUCTURAL ADHESIVE. WHERE ANCHORING INTO HOLLOW MASONRY, A SCREEN TUBE SHALL BE PROVIDED.

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
HOLLOW MASONRY	HILTI HIT-HY 270 (ESR-4143)	DEWALT AC 100+ GOLD (ESR-3200) SIMPSON SET-XP (ESR-0265)
GROUTED MASONRY	HILTI HIT-HY 270 (ESR-4143)	DEWALT AC 100+ GOLD (ESR-3200) RED HEAD A7 ACRYLIC (ESR-3951) SIMPSON SET-XP (ESR-0265)
CONCRETE	HILTI HIT-HY 200 (ESR-3187)	DEWALT AC 200+ (ESR-4027) SIMPSON SET-3G (ESR-4057)

4. CRACKED CONCRETE REPRESENTS ALL CONCRETE FOR PROJECTS LOCATED IN SEISMIC DESIGN CATEGORY C OR HIGHER, TENSILE ZONES SUCH AS BOTTOMS OF BEAMS AND SLABS, OR WHERE NOTED ON THE DRAWINGS.

IMEG
623 26TH AVENUE
ROCK ISLAND, IL 61201
P: 309.788.0673 F: 309.786.5967
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0 1 2 3
REF. SCALE IN INCHES PROJECT #23003328.01

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

251 East Iowa Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
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SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.23
DRAWN BY	ARUMON
CHECKED BY	TODBAR

GENERAL NOTES

S-000
BIDDING

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 ALL 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.

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
CONCRETE CONSTRUCTION				
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	ACI 318: CH 20, 25.2, 25.3, 26.2.1-26.6.3	1908.4
2. MATERIAL IDENTIFICATION OF REINFORCING (TYPE/GRADE)		X	AISC 341: TABLE J9.1	
3. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		X	AISC 341: TABLE J9.1	
4. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		X	AISC 341: TABLE J9.1	
5. REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		X	AISC 341: TABLE J9.1	
6. COMPOSITE STEEL MEMBERS HAVE REQUIRED SIZE		X	AISC 341: TABLE J9.1	
7. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	AWS D1.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X	ACI 318: 26.6.4	
c. INSPECTS ALL OTHER WELDS	X			
8. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
9. 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 IN 9.a		X	ACI 318: 17.8.2	
10. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: CH 19, 26.4.2, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
11. 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	1907.10
12. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
13. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	1908.9

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	TMS 402	TMS 602
MASONRY CONSTRUCTION - LEVEL 2				
1. PRIOR TO CONSTRUCTION:				
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS		X		ART. 1.5
b. VERIFICATION OF f'm		X		ART. 1.4 B
2. 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
3. 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
d. PROPORTIONS OF SITE-PREPARED GROUT		X		ART. 2.6 B & 2.4 G.1.b
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
5. 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

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE
STRUCTURAL STEEL - FABRICATION			
1. FABRICATION FACILITY			X
2. CONNECTION ERECTION AND ASSEMBLY	X	X	
3. PRETENSIONED AND SLIP-CRITICAL BOLTS/JOINTS USING TURN-OF-NUT METHOD WITHOUT MATCHMAKING OF CALIBRATED WRENCH METHODS OF INSTALLATION	X	X	
4. SINGLE PASS FILLET WELDS 5/16" OR LESS	X	X	X
5. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	X	X	X
6. SHEAR STUD PLACEMENT	X	X	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE
STRUCTURAL STEEL - ERECTION			
1. STRUCTURAL STEEL ERECTION	X	X	
2. CONNECTION ERECTION AND ASSEMBLY	X	X	
3. PRETENSIONED AND SLIP-CRITICAL BOLTS/JOINTS USING TURN-OF-NUT METHOD WITHOUT MATCHMAKING OF CALIBRATED WRENCH METHODS OF INSTALLATION	X	X	
4. SINGLE PASS FILLET WELDS 5/16" OR LESS	X	X	X
5. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	X	X	X
6. SHEAR STUD PLACEMENT	X	X	
7. BEAM CAMBER (IN-PLACE)	X		

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL PRIOR TO BOLTING - MINIMUM INSPECTION				
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	TABLE C-N5.6-1	2.1, 9.1
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	TABLE C-N5.6-1	6.5.1
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O	TABLE C-N5.6-1	2.3.2, 2.7.2, 9.1
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	TABLE C-N5.6-1	4, 8
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	TABLE C-N5.6-1	TABLE 6.1(2)
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P[1]	O[1]	TABLE C-N5.6-1	3, 9.1, 9.3
7. PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	TABLE C-N5.6-1	2.2, 8, 9.1

1 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL AFTER BOLTING - MINIMUM INSPECTION				
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	TABLE C-N5.6-3	N/A

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

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL DURING WELDING - MINIMUM INSPECTION				
1. USE OF QUALIFIED WELDERS	O	O	TABLE C-N5.4-2	6.4
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	TABLE C-N5.4-2	6.2
a. PACKAGING	O	O	TABLE C-N5.4-2	5.3.1
b. EXPOSURE CONTROL	O	O	TABLE C-N5.4-2	5.3.2 (FOR SMAW), 5.3.3 (FOR SAW)
3. ENVIRONMENT CONDITIONS	O	O	TABLE C-N5.4-2	
a. WIND SPEED WITHIN LIMITS	O	O	TABLE C-N5.4-2	5.11.1
b. PRECIPITATION AND TEMPERATURE	O	O	TABLE C-N5.4-2	5.11.2
4. WPS FOLLOWED	O	O	TABLE C-N5.4-2	6.3.3, 6.5.2, 5.5, 5.20
a. SETTINGS ON WELDING EQUIPMENT	O	O	TABLE C-N5.4-2	
b. TRAVEL SPEED	O	O	TABLE C-N5.4-2	
c. SELECTED WELDING MATERIALS	O	O	TABLE C-N5.4-2	
d. SHIELDING GAS TYPE/FLOW RATE	O	O	TABLE C-N5.4-2	
e. PREHEAT APPLIED	O	O	TABLE C-N5.4-2	5.6, 5.7
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O	TABLE C-N5.4-2	
g. PROPER POSITION (F, V, H, OH)	O	O	TABLE C-N5.4-2	
h. INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	O	TABLE C-N5.4-2	
5. WELDING TECHNIQUES	O	O	TABLE C-N5.4-2	6.5.2, 6.5.3, 5.23
a. INTERPASS AND FINAL CLEANING	O	O	TABLE C-N5.4-2	5.29.1
b. EACH PASS WITHIN PROFILE LIMITATIONS	O	O	TABLE C-N5.4-2	
c. EACH PASS MEETS QUALITY REQUIREMENTS	O	O	TABLE C-N5.4-2	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION				
1. WELDS CLEANED	O	O	TABLE C-N5.4-3	5.29.1
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P	TABLE C-N5.4-3	6.5.1
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P[2]	P[2]	TABLE C-N5.4-3	6.5.3
a. CRACK PROHIBITION	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(1)
b. WELD/BASE-METAL FUSION	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(2)
c. CRATER CROSS-SECTION	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(3)
d. WELD PROFILES	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(4), 5.24
e. WELD SIZE	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(6)
f. UNDERCUT	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(7)
g. POROSITY	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(8)
4. ARC STRIKES	P	P	TABLE C-N5.4-3	5.28
5. K-AREA[3]	P[2]	P[2]	TABLE C-N5.4-3	N/A
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	P	P	TABLE C-N5.4-3	5.16, 6.5.2 (& SEE AISC 360 SECT. J1.6)
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P[2]	P[2]	TABLE C-N5.4-3	5.9, 5.30
8. REPAIR ACTIVITIES	P	P[2]	TABLE C-N5.4-3	6.5.3, 5.25
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	TABLE C-N5.4-3	6.5.4, 6.5.5
10. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P[2]	P[2]	TABLE C-N5.4-3	6.5.4, 6.5.5

1 FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK, SHOULD THE INSPECTOR DETERMINE THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.

2 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

3 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.

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

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

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

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
VIEW NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
1 / S300 — DETAIL REFERRED TO BY SECTION CUT / SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:
- NEW WORK (DARK SOLID LINE/LINE WEIGHT WILL VARY)
- NEW WORK BELOW OR BEYOND VIEW (DARK DASH LINE)
- EXISTING TO BE REMOVED (DARK DASH LINE)
- EXISTING WORK TO REMAIN (HALFTONED SOLID LINE/LINE WEIGHT WILL VARY)
- NON STRUCTURAL (HALFTONED LIGHT SOLID LINE)
- GRID OR CENTERLINE

MATERIAL LEGEND:
- CONCRETE - CAST-IN-PLACE
- CONCRETE - EXISTING
- EARTH
- GRAVEL OR GRANULAR FILL
- GROUT OR DRYPACK OR SAND
- MASONRY
- METAL / COLD-FORM STUD
- PRECAST CONCRETE
- STEEL

W1XX — COLUMN DESIGNATION
BPX — BASE PLATE MARK
SF#(+X'-X") — FOOTING MARK (TOP ELEVATION)
P# (+X'-X") — PIER MARK (TOP ELEVATION)

STRUCTURAL SYMBOL LIST

GENERAL SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
(+16'-3")	TOP OF STRUCTURAL FRAMING ABOVE ELEVATION (+0'-0")	N/A
(-2'-0")	TOP OF STRUCTURAL FOUNDATION BELOW ELEVATION (+0'-0")	N/A

FOUNDATION SYMBOLS:

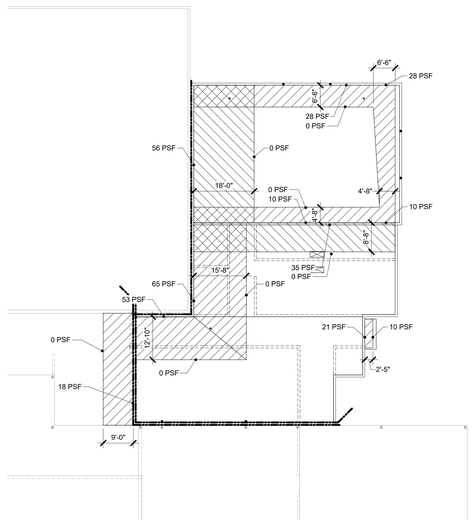
SYMBOL	DESCRIPTION	DETAIL REFERENCE
-1"	SLAB DEPRESSION	
	STEP IN FOOTING	7/S-300 AND 9/S-300
	MEP PENETRATION	5/S-300

STEEL SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
	STEEL DECK (DIRECTION)	N/A

STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS
@	AT
°	DEGREE
ø	DIAMETER
(E)	EXISTING
A.B.	ANCHOR BOLT
ARCH	ARCHITECT, -URE, -URAL
B.O.	BOTTOM OF
bf	BEAM FLANGE WIDTH
BF	BRACE FRAME
BM	BEAM
B.N.	BOUNDARY NAILING
BOTT	BOTTOM
BTWN	BETWEEN
CFSF	COLD FORM STEEL FRAMING
CGS	CENTER OF GRAVITY OF THE TENDON
CJP	COMPLETE JOINT PENETRATION WELD
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATION
DIA	DIAMETER
DL	DEAD LOAD
DET	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EFF	EFFECTIVE
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
f 'c	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
F.N.	FIELD NAILING
FT.	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE OR GAUGE
GALV	GALVANIZED
GLB	GLULAM BEAM
GT	GIRDER TRUSS
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
JT	JOINT
K, KIP	KILOPOUND (1,000 POUNDS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LBS	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LT WT	LIGHTWEIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MANUF	MANUFACTURER
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PCF	POUNDS PER CUBIC FOOT
P.H.	PENTHOUSE
PJP	PARTIAL JOINT PENETRATION WELD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSION, -ED, -ING
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF TOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SFRS	SEISMIC FORCE-RESISTING SYSTEM
SIM	SIMILAR
SL	SNOW LOAD
S.M.S.	SHEET METAL SCREW
SP	SPACE(S)
SPECS	SPECIFICATION(S)
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T.O.	TOP OF
TC	PRE-TENSIONED BOLT
TEMP	TEMPERATURE
tf	BEAM FLANGE THICKNESS
THK	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING



NOTE:
1. SNOW DRIFT LOADING IS ADDITIONAL TO FLAT ROOF SNOW LOAD PER S-000.

SNOW DRIFT PLAN
1/16" = 1'-0"

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CHECKED BY	TODBAR

GENERAL NOTES

S-001
BIDDING

CMU WALL REINFORCING SCHEDULE

MARK (MW#)	WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	REMARKS
MW1	8"	#5 @ 32" OC	SEE NOTE 1	-
MW2	8"	#5 @ 16" OC	#5 @ 48" OC (SEE NOTE 2)	-
MW3	8"	#5 @ 32" OC	#5 @ 48" OC	FIREWALL SEE ARCH

NOTES:

1. TYP HORIZ REINF PER SPECIFICATIONS AND IS INTENDED TO BE A 'DUROWALL - TRUSS TYPE' OR EQUIVALENT @ 16" OC.
2. LOCATE FIRST LAYER OF HORIZONTAL BARS AT 8" MAX FROM BASE WALL, AND FROM TOP AND BOTTOM OF WALL OPENINGS.
3. REINFORCED CORES ARE ALWAYS GROUTED.
4. SEE S-400 FOR TYP CMU DETAILING.
5. REINFORCE NON-STRUCTURAL CMU WALL WITH #4 @ 120" OC.

FOUNDATION WALL REINFORCING SCHEDULE

WALL THICKNESS	HORIZONTAL		VERTICAL		REMARKS
	EXTERIOR FACE	INTERIOR FACE	EXTERIOR FACE	INTERIOR FACE	
0" TO 10"	#5 @ 12" OC	-	#5 @ 12" OC		SEE NOTE 1
1'-0" TO 1'-4"	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	-

NOTE:

1. CENTERED IN WALL THICKNESS.

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING	
			LONG DIRECTION	SHORT DIRECTION
CF2.0	2'-0"	1'-0"	(2) #5	#5 @ 12" OC
CF3.0	3'-0"	1'-0"	(3) #5	#5 @ 12" OC
CF3.5	3'-6"	1'-0"	(4) #5	#5 @ 12" OC

SPREAD FOOTING SCHEDULE

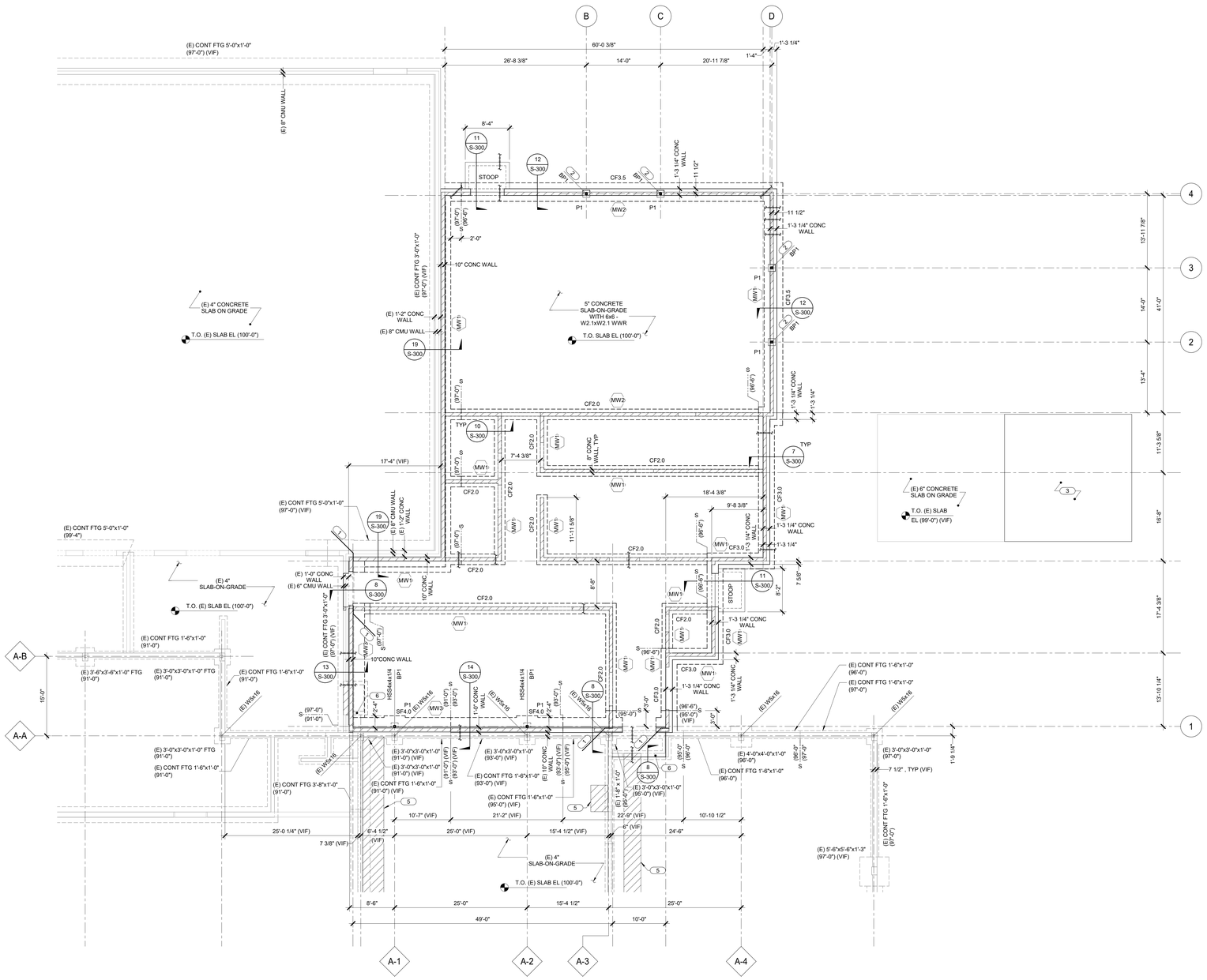
MARK	E-W DIRECTION	N-S DIRECTION	THICKNESS	REINFORCING	
				N-S DIRECTION	E-W DIRECTION
SF4.0	4'-0"	4'-0"	1'-0"	(3) #5	(4) #5

NOTES:

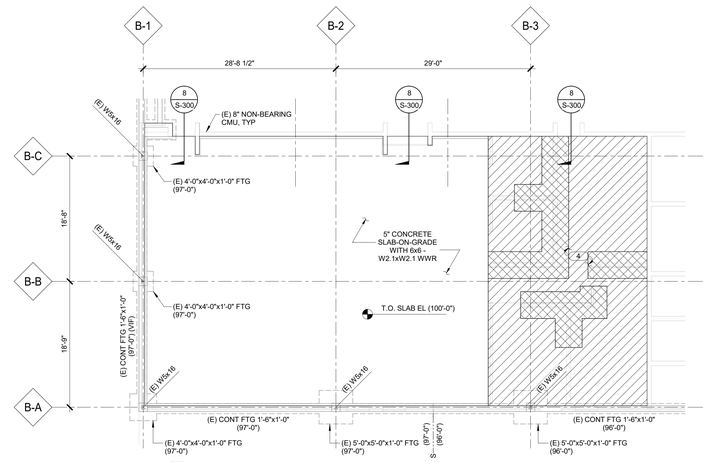
1. SEE S-300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
2. TOP OF FOUNDATION WALL EL (100'-0"), UON. REFER TO THIS SHEET FOR SCHEDULES.
3. TOP OF EXTERIOR FOOTING EL (96'-6"), UON. TOP OF INTERIOR FOOTING EL (98'-6"), UON. SEE 15/S-300 IF OVER-EXCAVATION IS REQUIRED PER GEOTECHNICAL ENGINEER. SEE THIS SHEET FOR SCHEDULES.
4. TOP OF PIER EL (99'-4"), UON. SEE S-300 FOR DETAILS.
5. SEE S-500 FOR BASE PLATE DETAILS.
6. PROVIDE 2'-6" x 2'-6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
7. PROVIDE THICKENED SLAB UNDER ALL NON-STRUCTURAL CMU WALLS. SEE 4/S-300 FOR SLAB DETAIL AND ARCHITECTURAL PLANS FOR EXTENT AND LOCATIONS.
8. FOR PIPING AND CONDUIT THROUGH FOUNDATIONS, SEE S/S-300.
9. SEE THIS SHEET FOR CMU WALL SCHEDULE.
10. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.

KEYNOTES: (#)

1. PROVIDE 1" EXPANSION JOINT PER 2/S-400. SEE ARCHITECTURAL DRAWINGS FOR FIRE SAFETY INFORMATION.
2. HSS4x4x3/8 POST CENTERED WITHIN CMU BLOCK.
3. ALTERNATE BID: PROVIDE 6" SLAB-ON-GRADE #6 @ 12" OC EACH WAY. T.O. SLAB EL (99'-0"). SLAB SHALL HAVE THICKENED EDGES PER 18/S-300.
4. BASE BID: (4) DEMO (E) SLAB UNDER NEW NON-STRUCTURAL CMU WALL TO PROVIDE THICKENED SLAB PER 17/S-300. ALTERNATE BID: (5) DEMO FULL EXTEND OF (E) SLAB. PROVIDE NEW 5" CONCRETE SLAB-ON-GRADE WITH 6x6 - W2.1xW2.1 WWR. T.O. SLAB EL (100'-0").
5. DEMO AND REPLACE (E) SLAB FOR NEW SANITARY LINE. CONTRACTOR TO COORDINATE DEMO SLAB WITH MECHANICAL DRAWINGS. PROVIDE 4" CONCRETE SLAB-ON-GRADE WITH W2.1xW2.1 WWR. SEE 8/S-300 FOR MORE REINFORCING REQUIREMENTS.
6. (E) 8" CONC WALL FOR STOOP. DEMO TOP TWO FEET OF (E) CONCRETE STOOP. SEE TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS AND 8/S-300 FOR MORE INFORMATION.



1 **FOUNDATION PLAN - MODULE A**
1/8" = 1'-0"



NOTE:

1. NON-LOAD BEARING CMU WALLS ARE SHOWN IN LIGHT GRAY. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

2 **FOUNDATION PLAN - MODULE B**
1/8" = 1'-0"

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FOUNDATION PLAN

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S-100
BIDDING

LINTEL SCHEDULE

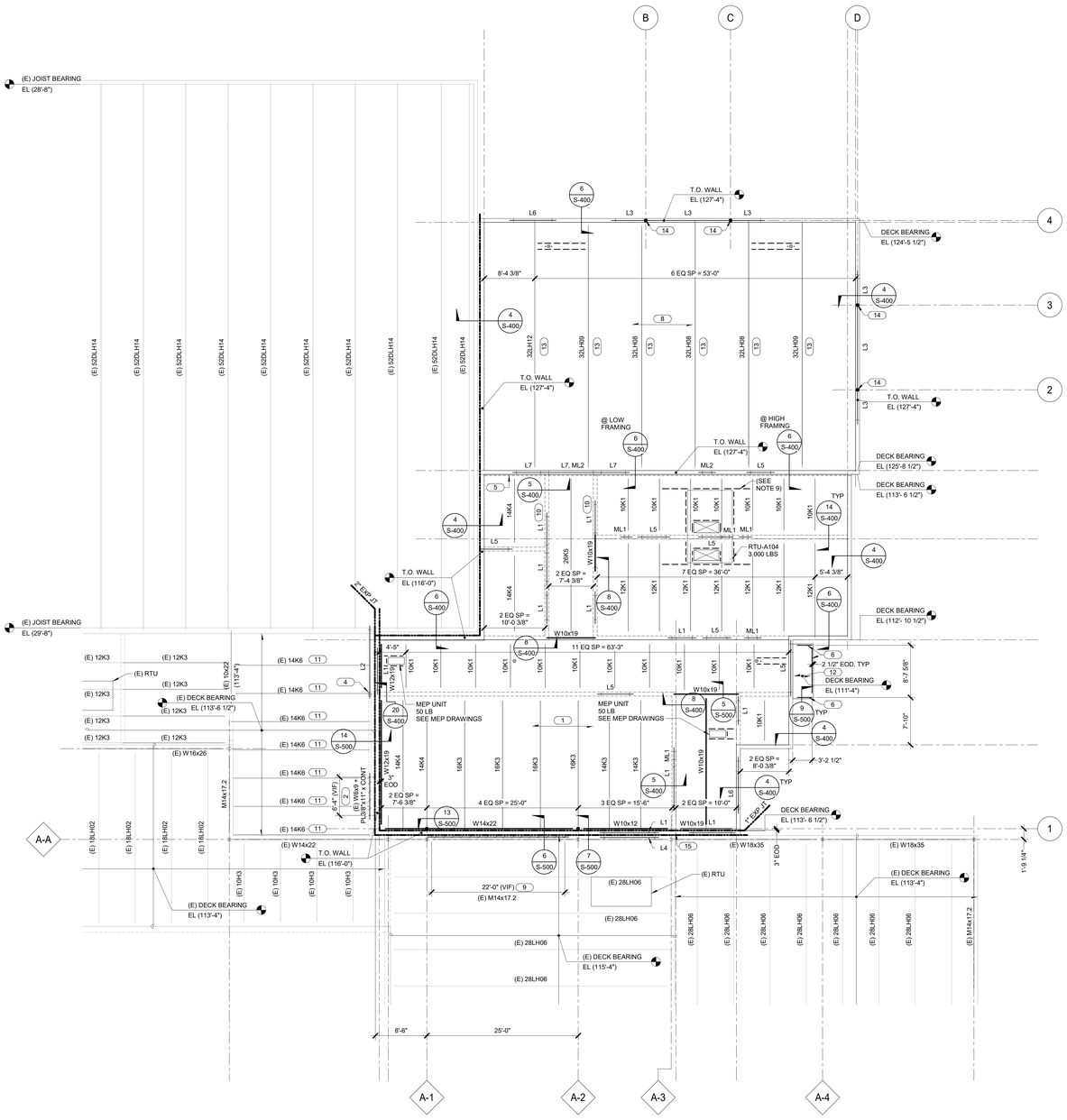
MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	8" DEEP BOND BEAM WITH (2) #5	10/S-400	-
L2	W16x36 + 1/2" PL	11/S-400	GROUT (E) CMU WALL UNDER LINTEL BEARING
L3	HSS8x4x1/2 (LSV) + L5x5x3/8	7/S-400	SEE 13/S-500 FOR CONNECTION AT HSS POST AND 9/S-400 FOR BEARING CONDITION AT CMU
L4	(2) L3 1/2x3 1/2x3/8	17/S-400	GROUT (E) CMU WALL UNDER LINTEL BEARING
L5	16" DEEP BOND BEAM WITH (2) #5	10/S-400	-
L6	W16x36 + 1/2" PL	12/S-400	-
L7	W8x28 + 1/2" PL	21/S-400	-
ML1	8" DEEP BOND BEAM WITH (2) #5	10/S-400	CONTRACTOR TO COORDINATE LINTEL LOCATION WITH MEP DRAWINGS
ML2	16" DEEP BOND BEAM WITH (2) #5	10/S-400	CONTRACTOR TO COORDINATE LINTEL LOCATION WITH MEP DRAWINGS

NOTES:

1. SEE PLAN FOR DECK BEARING ELEVATIONS.
2. SEE S-500 FOR TYPICAL SHEAR CONNECTION DETAILS.
3. SEE S-100 FOR CMU WALL SCHEDULE. TOP OF WALL EL (114'-0"), UON.
4. SEE THIS SHEET FOR LINTELS IN STRUCTURAL CMU WALLS AND LONG-SPAN OPENINGS IN NON-STRUCTURAL WALLS. SEE S-000 FOR LINTELS IN NON-STRUCTURAL WALLS.
5. PROVIDE ANGLE FRAMING AROUND ROOF OPENINGS PER 3/S-500.
6. SEE 2/S-500 FOR JOIST REINFORCING WHERE CONCENTRATED LOADS ARE APPLIED TO JOISTS.
7. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
8. FRAMING WAS ANALYZED BASED ON EQUIPMENT SHOWN ON PLAN. NOTIFY ENGINEER IF ACTUAL EQUIPMENT LOCATIONS AND WEIGHT VARY FROM WHAT IS SHOWN.
9. PROVIDE C5x9 UNDER RTU CURB PER 12/S-500.

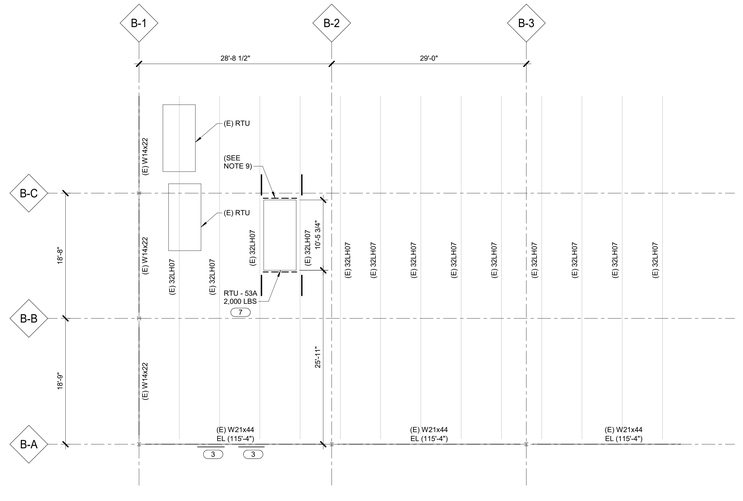
KEYNOTES: (#)

1. 1 1/2 (20GA) TYPE B STEEL DECK, 2 SPAN MINIMUM. FASTENING 36/4 (1) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS. SEE 4/S-500 FOR STEEL DECK FASTENING INFORMATION.
2. MASONRY INFILL AT (E) CMU WALL. SEE 13/S-400 FOR MORE INFORMATION.
3. L4x3 1/2x3/8 (LLV) LOOSE LINTEL ABOVE WINDOWS FOR BRICK RELIEF. SEE S-500 FOR LINTELS IN NON-STRUCTURAL WALLS.
4. 12" CMU CELLS IN STACK BOND. SEE 16/S-400 FOR MORE INFORMATION. NEW LINTEL IN EXISTING WALL SHALL ONLY BEAR AT (E) CMU FOR MINIMUM BEARING.
5. BRICK RELIEF PER 18/S-400.
6. HSS3x3x1/4 BEAMS FOR CANOPY FRAMING. FOR MORE INFORMATION, SEE 15/S-400.
7. MECHANICAL UNIT UNDER ALTERNATE BID. PROVIDE AND PLACE JOIST REINFORCEMENT PER 10/S-500 PRIOR TO RTU INSTALLATION.
8. 3" (20GA) TYPE N ACOUSTICAL ROOF DECK, 2 SPAN MINIMUM. FASTENING 32/5 (3) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS. SEE 4/S-500 FOR STEEL DECK FASTENING INFORMATION.
9. INFILL EXISTING OPENING WITH 4" (VIF) CMU AND BRICK VENEER. EXISTING MASONRY IS NON-BEARING.
10. PROVIDE ML1 FOR MEP OPENING IN CMU WALL. LOCATE OPENING ABOVE LARGER OPENING. ALL OPENINGS SHALL HAVE 8" MINIMUM BEARING WITHOUT CONSTRUCTION JOINTS WITHIN MINIMUM BEARING.
11. EXISTING JOIST DO NOT REQUIRED REINFORCEMENT UNDER NEW SNOW DRIFT.
12. 1 1/2" (18GA) TYPE B STEEL. FASTENING 36/4(1) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS. SEE 4/S-500 FOR STEEL DECK FASTENING INFORMATION.
13. FRAMING TO BE PRIMED AND PAINTED PER ARCHITECTURAL SPECS.
14. SEE 19/S-400 TOP OF HSS POST DETAIL.
15. TOP OF WALL ELEVATION CHANGE.



1 ROOF FRAMING PLAN - MODULE A

1/8" = 1'-0"



2 (E) FRAMING PLAN - MODULE B

1/8" = 1'-0"

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ROOF FRAMING PLAN

S-101
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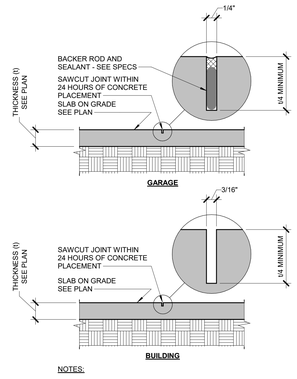
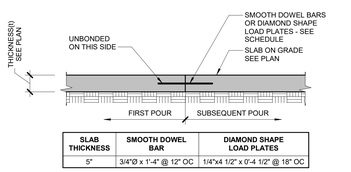


NOTES:

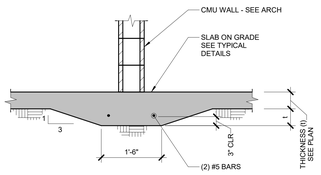
1. SEE CAST-IN-PLACE CONCRETE GENERAL NOTES CONCERNING LOCATION OF JOINTS.

1 TYPICAL CONTROL JOINT
3/4" = 1'-0"

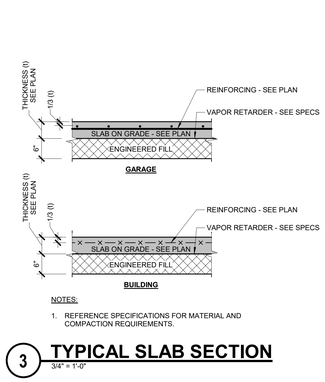


SLAB THICKNESS	SMOOTH DOWEL BAR	DIAMOND SHAPE LOAD PLATES
5"	3/4"Ø X 1'-4" @ 12" OC	1/4"x4 1/2" x 0'-4 1/2" @ 18" OC

2 TYPICAL CONSTRUCTION JOINT
3/4" = 1'-0"



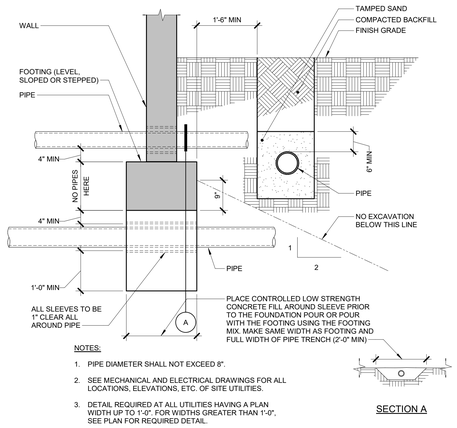
NON-STRUCTURAL CMU WALL DETAIL
4
3/4" = 1'-0"



NOTES:

1. REFERENCE SPECIFICATIONS FOR MATERIAL AND COMPACTION REQUIREMENTS.

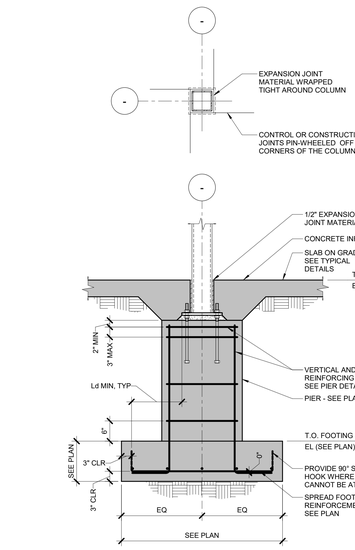
3 TYPICAL SLAB SECTION
3/4" = 1'-0"



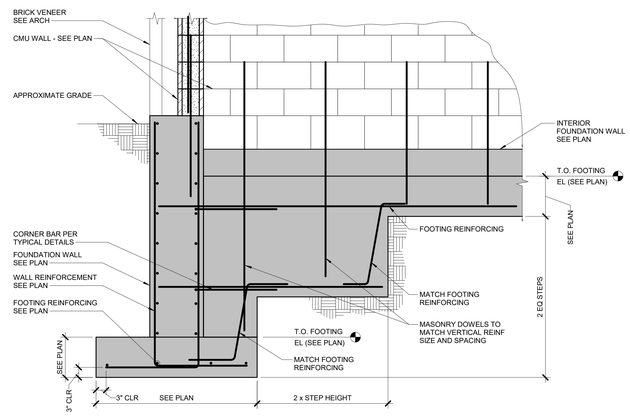
NOTES:

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.

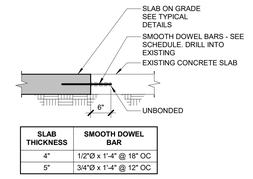
5 TYPICAL PIPE TRENCH DETAIL
3/4" = 1'-0"



6 COLUMN ON PIER/FOOTING DETAIL
3/4" = 1'-0"

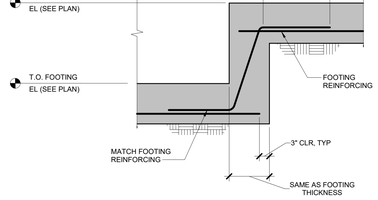


7 TYPICAL STEPPED FOOTING DETAIL
3/4" = 1'-0"

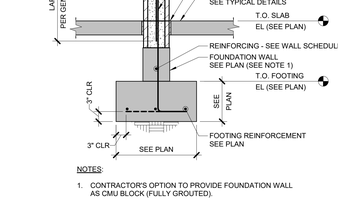


SLAB THICKNESS	SMOOTH DOWEL BAR
4"	1/2"Ø x 1'-4" @ 18" OC
5"	3/4"Ø x 1'-4" @ 12" OC

8 NEW TO EXISTING SLAB DETAIL
3/4" = 1'-0"



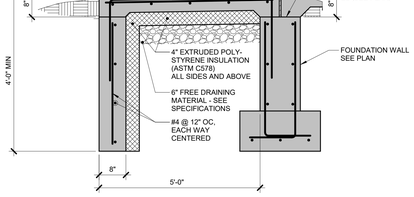
9 TYPICAL STEPPED FOOTING DETAIL
3/4" = 1'-0"



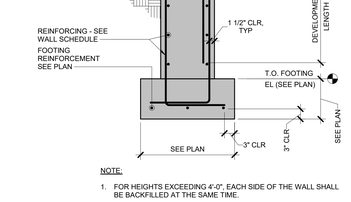
NOTES:

1. CONTRACTOR'S OPTION TO PROVIDE FOUNDATION WALL AS CMU BLOCK (FULLY GROUTED).

10 INTERIOR CMU WALL FOUNDATION
3/4" = 1'-0"



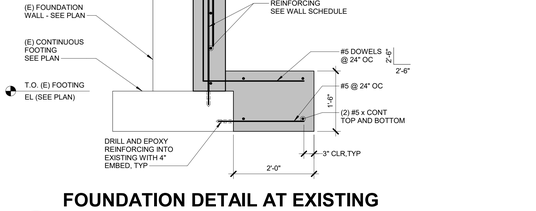
11 TYPICAL STOOP DETAIL
3/4" = 1'-0"



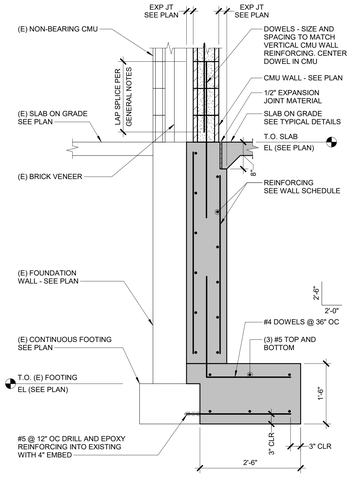
NOTE:

1. FOR HEIGHTS EXCEEDING 4'-0", EACH SIDE OF THE WALL SHALL BE BACKFILLED AT THE SAME TIME.

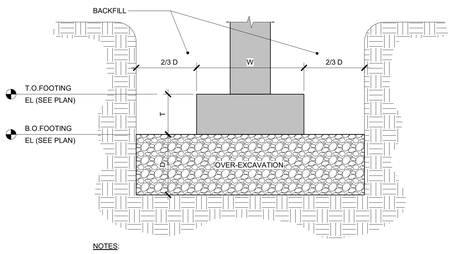
12 TYPICAL PERIMETER FROST WALL
3/4" = 1'-0"



FOUNDATION DETAIL AT EXISTING FOUNDATION - SOUTH CMU WALL
13
3/4" = 1'-0"



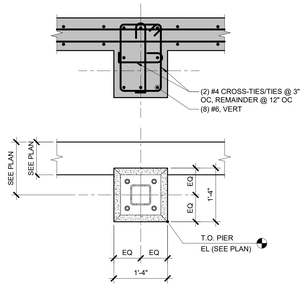
FOUNDATION DETAIL AT EXISTING FOUNDATION - EAST CMU WALL
14
3/4" = 1'-0"



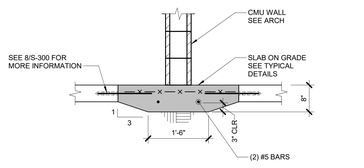
NOTES:

1. OVER-EXCAVATION TO BE PROVIDED BY GEOTECHNICAL ENGINEER ON SITE PER ON-SITE TESTING. EXCAVATION ARE SHOWN VERTICAL; HOWEVER, THE SIDEWALLS SHOULD BE SLOPED AS NECESSARY FOR SAFETY.
2. REFER TO FOOTING SCHEDULE FOR T (THICKNESS) AND W (WIDTH) DIMENSIONS.
3. "D" MAY RANGE FROM 3.5 FT TO 6.5 FT, ACTUAL VOLUME WILL BE BASED ON OVER-EXCAVATION AS DIRECTED BY GEOTECHNICAL CONSULTANT. ANOTHER OPTION CAN BE TO REMOVE THE UNSUITABLE SOILS DOWN TO SUITABLE SOILS AS INDICATED BY GEOTECHNICAL ENGINEERS AND REPLACE THE EXCAVATED AREA WITH LEAN CONCRETE (MIN 50 PSI COMPRESSIVE STRENGTH), IN WHICH CASE WIDENING OF THE EXCAVATION WOULD NOT BE REQUIRED.
4. CONTRACT ALLOWANCES SHOULD MADE FOR SOME REMEDIAL WORK AT THE SITE RELATED TO SUBGRADE PREPARATION AND FOUNDATION CONSTRUCTION. THIS WILL INCLUDE OVER EXCAVATION AND BACKFILLING OF UNSUITABLE SOILS ENCOUNTERED IN THE FOUNDATION EXCAVATIONS IN ACCORDANCE WITH THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT. THE AMOUNT OF SUCH WORK CANNOT BE DEFINED AT THIS TIME; THEREFORE, THE OWNER SHOULD BE INFORMED OF THESE COST VARIABLES. THE MOST CONSERVATIVE APPROACH WOULD BE TO COMPLETELY REMOVE THE FILL AND REPLACE IT WITH ENGINEERED COMPACTED AND TESTED FILL.

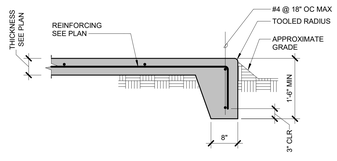
15 TYPICAL OVER-EXCAVATION DETAIL
3/4" = 1'-0"



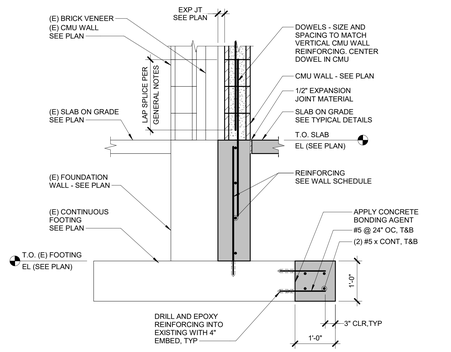
16 PIER (P1) DETAIL
3/4" = 1'-0"



NON-STRUCTURAL CMU WALL DETAIL AT EXISTING
17
3/4" = 1'-0"



TYPICAL EDGE OF SLAB DETAIL AT GARAGE
18
3/4" = 1'-0"



FOUNDATION DETAIL AT EXISTING FOUNDATION
19
3/4" = 1'-0"

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SIGNATURE

DATE

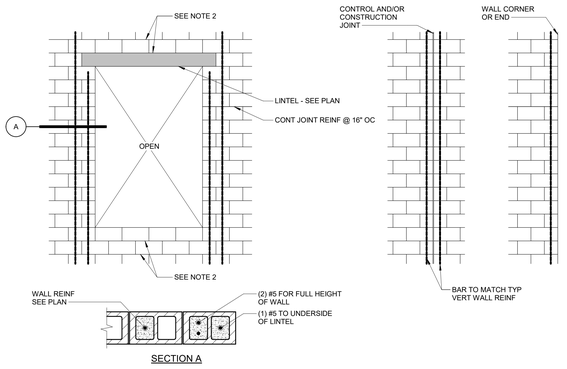
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.23
DRAWN BY	ARUMON
CHECKED BY	TODBAR

CONCRETE DETAILS

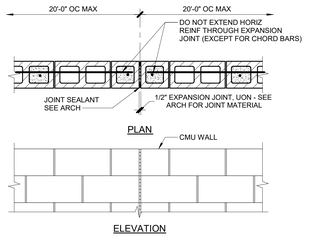
S-300
BIDDING



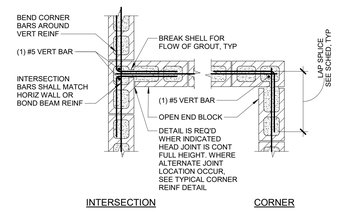
NOTES:

1. DO NOT PLACE CONTROL JOINT WITHIN THE 8" MINIMUM BEARING FOR LINTELS PER S-000.
2. TWO COURSES OF JOINT REINF ARE REQUIRED ABOVE THE LINTEL AND BELOW THE SILL AND SHALL EXTEND A MIN OF 24 INCHES PAST THE OPENING.

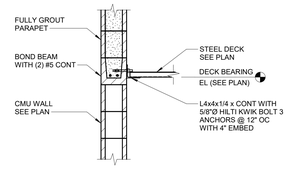
1 TYPICAL CMU WALL OPENING DETAIL
3/4" = 1'-0"



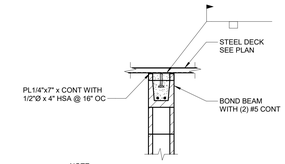
2 CMU EXPANSION JOINT DETAIL
3/4" = 1'-0"



3 CMU WALL INTERSECTION DETAILS
3/4" = 1'-0"



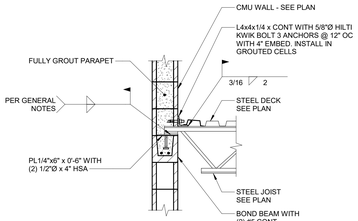
4 TYPICAL EXTERIOR ROOF DECK BEARING AT CMU WALL
3/4" = 1'-0"



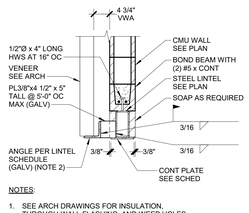
NOTE:

1. CONTRACTOR TO COORDINATE ACCESS HOLE FOR GROUT POUR WITH ENGINEER.

5 TYPICAL INTERIOR ROOF DECK BEARING AT CMU WALL
3/4" = 1'-0"



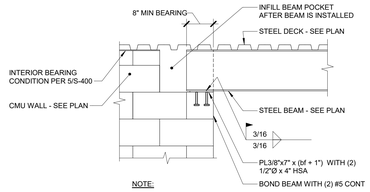
6 TYPICAL ROOF JOIST BEARING ON EXTERIOR CMU WALL
3/4" = 1'-0"



NOTES:

1. SEE ARCH DRAWINGS FOR INSULATION, THROUGH-WALL FLASHING, AND WEEP HOLES.
2. CLADDING SUPPORT ANGLE STOP AT EDGE OF WINDOW, IT DOES NOT LAP WITH CMU.

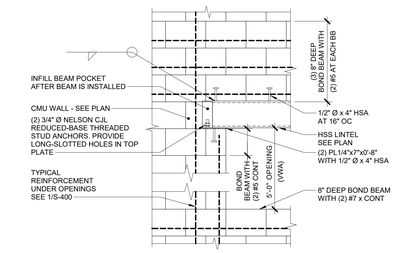
7 LINTEL AT LONG SPAN WINDOWS
3/4" = 1'-0"



NOTE:

1. BEAM CENTERLINE TO BE LOCATED AT WALL CENTERLINE, UON ON PLANS.

8 TYPICAL BEAM BEARING ON CMU
3/4" = 1'-0"



NOTE:

1. PROVIDE HOLES IN HSS POST FOR BOND BEAM REINFORCEMENT.

9 TYPICAL HSS BEARING ON CMU
3/4" = 1'-0"

NOTES:

1. SHORE UNTIL GROUT FOR LINTEL HAS REACHED ITS SPECIFIED STRENGTH.

10 BOND BEAM LINTEL DETAIL
3/4" = 1'-0"

NOTE:

1. (E) WALL TO BE SHORED AS REQUIRED FOR INSTALLATION OF NEW LINTEL.
2. (E) MASONRY SHALL BE FULLY GROUTED WITHIN THE 8" MIN BEARING.

11 WIDE FLANGE LINTEL DETAIL AT EXISTING
3/4" = 1'-0"

NOTE:

1. SEE ARCH DRAWINGS FOR INSULATION, THROUGH-WALL FLASHING, AND WEEP HOLES.

12 WIDE FLANGE LINTEL DETAIL
3/4" = 1'-0"

13 CMU INFILL ELEVATION
3/4" = 1'-0"

NOTES:

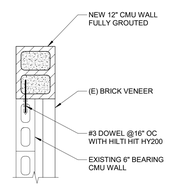
1. STAGGER JOISTS AS REQUIRED TO PROVIDE MIN BEARING PER GENERAL NOTES.
2. COORDINATE JOIST BEARING WITH JOIST SUPPLIER WITH GIVEN ROOF SLOPE.

14 TYPICAL ROOF JOIST BEARING ON INTERIOR CMU WALL
3/4" = 1'-0"
S_M-102

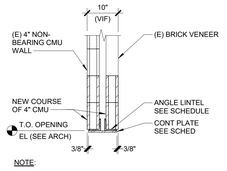
NOTE:

1. PROVIDE REINFORCEMENT TO MATCH BAR SIZE PER CMU WALL SCHEDULE AND GROUTED CMU CELLS AT HSS BEAM BEARING.
2. FASTENER SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

15 CANOPY BEARING AT CMU DETAIL
3/4" = 1'-0"



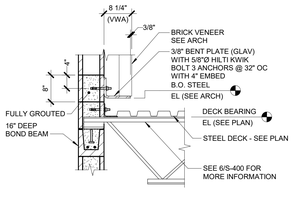
16 JAMB AT (E) CMU WALL DETAIL
3/4" = 1'-0"



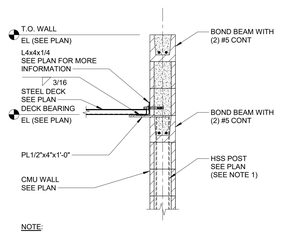
NOTE:

1. EXISTING WALL TO BE SHORED AS REQUIRED FOR INSTALLATION OF NEW LINTEL.
2. (E) MASONRY SHALL BE FULLY GROUTED WITHIN THE 8" MIN BEARING.

17 DOUBLE ANGLE LINTEL DETAIL AT EXISTING
3/4" = 1'-0"



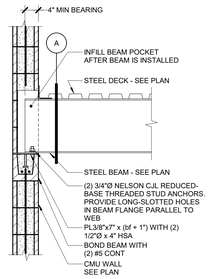
18 BRICK RELIEF DETAIL
3/4" = 1'-0"



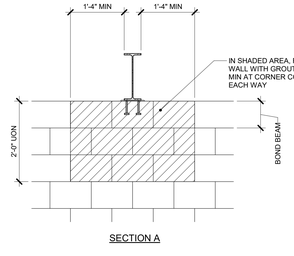
NOTE:

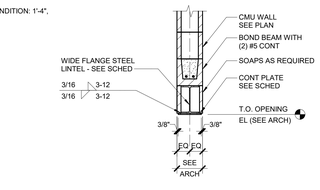
1. PROVIDE HOLES IN HSS POST FOR BOND BEAM REINFORCEMENT.

19 HSS INSIDE CMU DETAIL
3/4" = 1'-0"



20 BEAM BEARING ON CMU
3/4" = 1'-0"





21 WIDE FLANGE LINTEL DETAIL
3/4" = 1'-0"

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SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

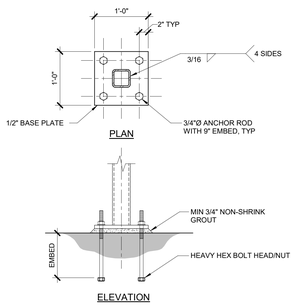
PROJECT	223049.00
DATE OF ISSUE	11.10.23
DRAWN BY	ARUMON
CHECKED BY	TODBAR

MASONRY DETAILS

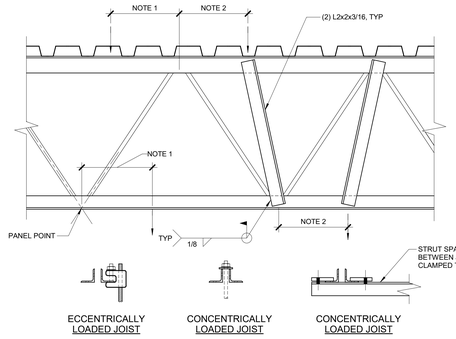
S-400
BIDDING

REF. SCALE IN INCHES 0 1 2 3

PROJECT #23003328.01



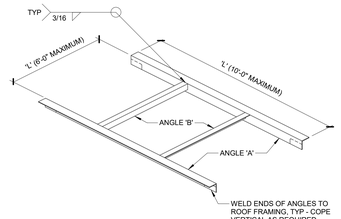
1 HSS COLUMN BASE PLATE (BP1)
1" = 1'-0"



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.

2 JOIST MODIFICATION DETAIL
1 1/2" = 1'-0"

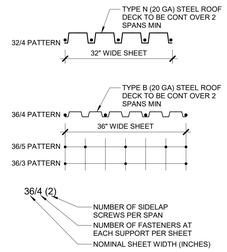


'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

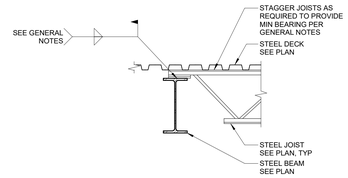
NOTES:

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.

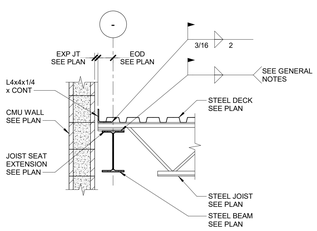
3 ROOF OPENING DETAIL
3/4" = 1'-0"



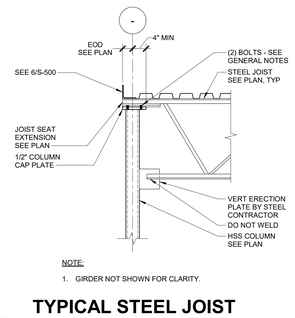
4 TYPICAL STEEL DECK FASTENING DETAIL
3/4" = 1'-0"



5 TYPICAL ROOF JOIST BEARING AT BEAM
3/4" = 1'-0"



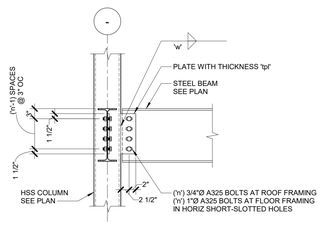
6 EDGE OF DECK AT FIRE WALL - EAST
3/4" = 1'-0"



NOTE:

1. GIRDER NOT SHOWN FOR CLARITY.

7 TYPICAL STEEL JOIST BEARING AT HSS COLUMN
3/4" = 1'-0"



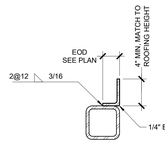
8 WIDE FLANGE BEAM CONNECTION TO HSS
3/4" = 1'-0"

GRAVITY BEAM CONNECTION SCHEDULE

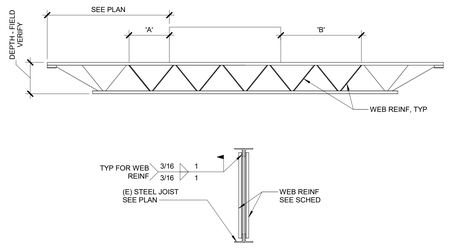
BEAM SIZE	NO. OF BOLTS (2) (3)	CONNECTION WITH 3/4"Ø BOLTS	
		PL THICK	PL WELD (1)
W10	2	1/4"	3/16"
W12,W14	3	1/4"	3/16"

NOTES:

1. FILLET WELD SIZE, 'w', SHALL BE AS SHOWN UNLESS A LARGER SIZE IS REQUIRED BY AISC STEEL CONSTRUCTION MANUAL, TABLE J2.4.
2. WHERE NUMBER OF BOLTS NOTED IN SCHED CANNOT BE IN A SINGLE ROW, ADD SECOND ROW WITH TWO BOLTS MINIMUM.
3. BOLT SIZE AND QUANTITY SHALL BE TYP FOR ALL CONDITIONS UNLESS DETAILED OTHERWISE.



9 TYP EDGE OF DECK - HSS DETAIL
1 1/2" = 1'-0"



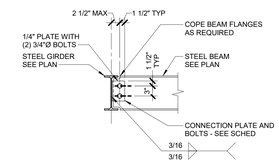
STEEL JOIST REINFORCING SCHEDULE

JOIST SIZE	RTU #	WEB REINFORCING		
		SIZE	'A'	'B'
32LH07	53A	L2x2x3/16	4'-0"	4'-0"

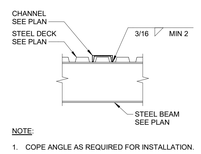
NOTES:

1. REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO INSTALL REINF MEMBERS.
2. JOIST REINF IS DUE TO NEW ROOF EQUIPMENT OR SNOW DRIFT. PRIOR TO PLACING EQUIPMENT OR BUILDING TALLER STRUCTURE, JOIST REINF MUST BE INSTALLED.
3. JOIST SHALL BE SHORED.
4. SPLICE CHORD REINF SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.
5. MECHANICAL ROOFTOP EQUIPMENT SHOWN ON PLAN IS A REPRESENTATION OF SCOPE. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

10 (E) JOIST REINFORCING DETAIL UNDER ALTERNATE
3/4" = 1'-0"



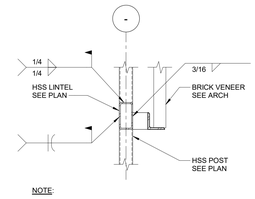
11 TYPICAL SHEAR CONNECTION TO BEAM
3/4" = 1'-0"



NOTE:

1. COPE ANGLE AS REQUIRED FOR INSTALLATION.

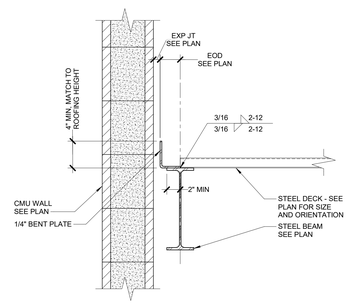
12 CURB SUPPORT DETAIL
3/4" = 1'-0"



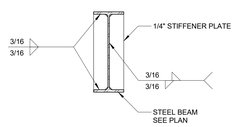
NOTE:

1. CONTRACTOR'S OPTION TO PROVIDE L4x4x1/4 FOR CONSTRUCTABILITY.
2. KNIFE PLATE TO BE WELDED TO HSS POST.

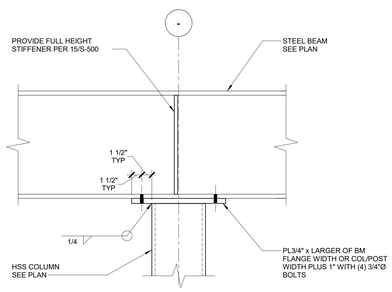
13 HSS TO HSS CONNECTION
3/4" = 1'-0"



14 EDGE OF DECK AT FIREWALL - SOUTH
1 1/2" = 1'-0"



15 TYPICAL STIFFENER PLATE DETAIL
3/4" = 1'-0"



16 BEAM BEARING ON COLUMN
1 1/2" = 1'-0"

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SIGNATURE

DATE

REVISIONS

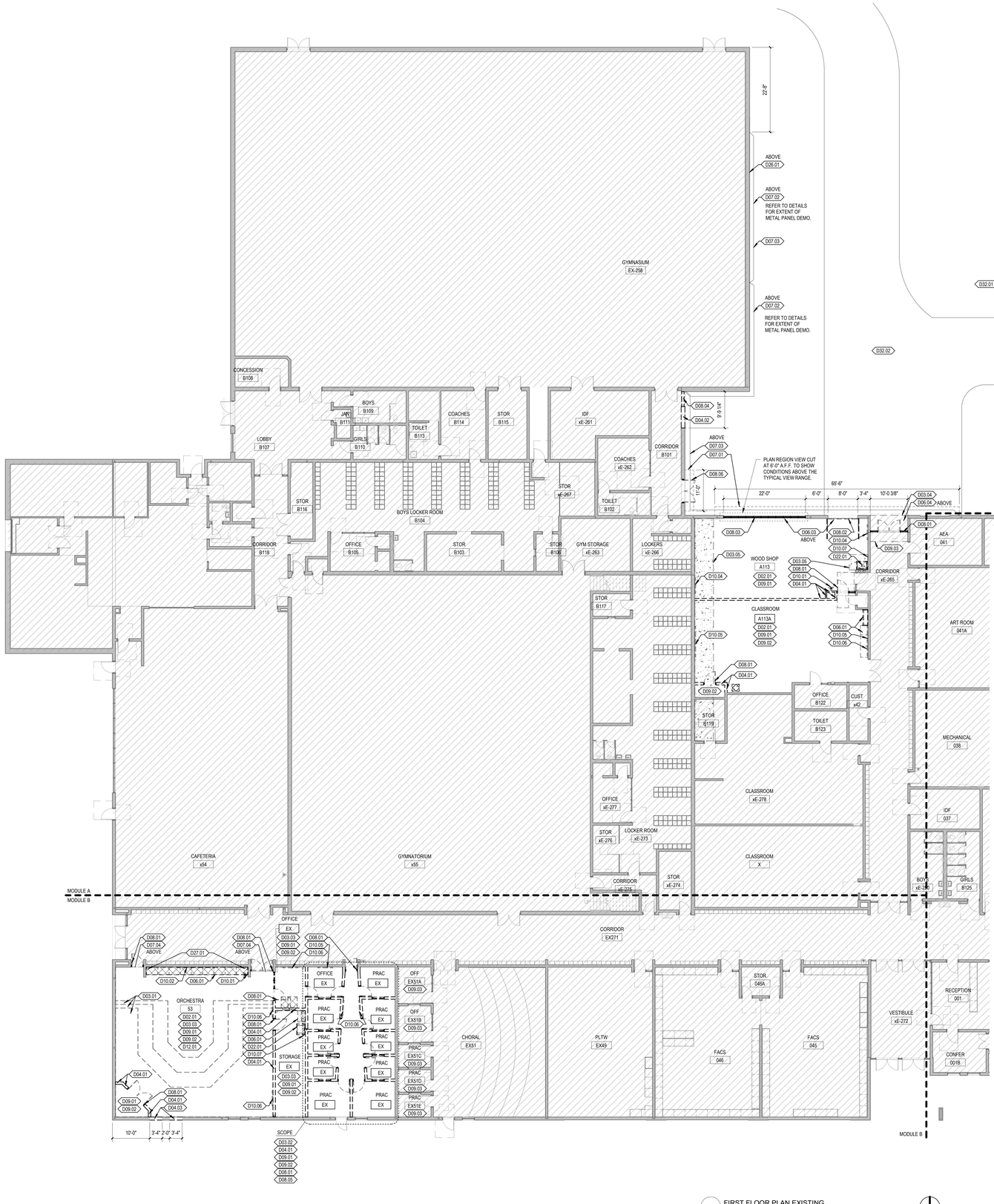
NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.23
DRAWN BY	ARUMON
CHECKED BY	TODBAR

STEEL DETAILS

S-500
BIDDING

0 1 2 3
REF. SCALE IN INCHES
PROJECT #2300328.01



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

DEMOLITION LEGEND

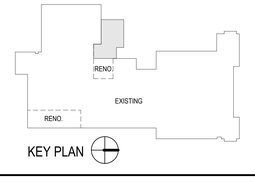
- D## ## DEMOLITION TAG
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED
- NOT IN CONTRACT

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

NOTE	DESCRIPTION
02.01	DISTRICT TO REMOVE EXISTING EQUIPMENT, CONTRACTOR TO COORDINATE REMOVAL WITH OWNER.
03.01	REMOVE EXISTING CONCRETE RISERS ENTIRELY (D## ##) AND REPAIR AS REQUIRED.
03.02	REMOVE EXISTING CONCRETE SLAB ENTIRELY AS ALTERNATE BID. PATCH AND REPAIR AS REQUIRED.
03.03	REMOVE EXISTING CONCRETE SLAB ENTIRELY. PATCH AND REPAIR AS REQUIRED.
03.04	REMOVE EXISTING STOOP SYSTEM ENTIRELY AND PREPARE FOR NEW FLOOR SLAB.
03.05	REMOVE PORTION OF EXISTING CONCRETE SLAB FOR INSTALLATION OF NEW PLUMBING WORK.
04.01	REMOVE EXISTING MASONRY WALL ENTIRELY. PATCH AND REPAIR AS REQUIRED.
04.02	REMOVE PORTION OF EXISTING MASONRY WALL UP TO 10'-0". PATCH AND REPAIR AS REQUIRED.
04.03	REMOVE PORTION OF EXISTING MASONRY WALL AND PREP OPENING FOR NEW WINDOW SYSTEM. PATCH AND REPAIR AS REQUIRED.
06.01	REMOVE EXISTING CASEWORK AND COUNTERTOP ENTIRELY. PATCH AND REPAIR ADJACENT SURFACES AS REQUIRED.
06.02	ALTERNATE BID: UNBOLT, PICK UP, AND MOVE EXISTING WOOD FRAMED GARAGE TO NEW LOCATION.
06.03	REMOVE EXISTING INTERIOR WALL SHEATHING AND INFILL WITH CMU. PATCH AND REPAIR WALL AS REQUIRED.
06.04	REMOVE EXISTING WOOD FRAMING SYSTEM AT DOOR HEAD AND SOFFIT ENTIRELY. PATCH AND REPAIR AS REQUIRED.
07.01	REMOVE EXISTING METAL PANEL AND FRAMING SYSTEM ENTIRELY. REMOVE SOFFIT PANEL AND FRAMING SYSTEM AND LIGHT FIXTURES ENTIRELY. PATCH AND REPAIR ADJACENT SURFACES AS REQUIRED.
07.02	REMOVE PORTION OF EXISTING METAL WALL PANEL SYSTEM, INSULATION, AND FRAMING SYSTEM FROM EXISTING WALL CONSTRUCTION AS REQUIRED TO MAINTAIN A CONTINUOUS 2" WIDE EXPANSION JOINT FOR THE FULL HEIGHT OF THE NEW MASONRY FIRE WALL. PATCH AND REPAIR AS REQUIRED.
07.03	REMOVE AND REINSTALL EXISTING METAL COPING AS REQUIRED FOR NEW CONSTRUCTION.
07.04	REMOVE EXISTING INTERIOR MASONITE SIDING AND GYPSUM BOARD SHEATHING AS REQUIRED TO INSTALL NEW METAL FURRING. PATCH AND REPAIR AS REQUIRED.
08.01	REMOVE EXISTING DOOR AND FRAME SYSTEM ENTIRELY. PATCH AND REPAIR AS REQUIRED.
08.02	REMOVE EXISTING OVERHEAD SECTIONAL DOOR SYSTEM ENTIRELY. PATCH AND REPAIR AS REQUIRED.
08.03	REMOVE EXISTING WINDOW SYSTEM ENTIRELY. INFILL OPENING WITH MASONRY TO MATCH EXISTING. TOOTH IN FULL UNITS AND PAINT.
08.04	REMOVE EXISTING GLASS BLOCK ENTIRELY. PATCH AND REPAIR AS REQUIRED.
08.05	REMOVE EXISTING INTERIOR WINDOW AND FRAME SYSTEM ENTIRELY.
08.06	REMOVE EXISTING DOOR AND FRAME SYSTEM ENTIRELY. INFILL OPENING WITH MASONRY TO MATCH EXISTING - TOOTH IN FULL UNITS AND PAINT. PATCH AND REPAIR AS REQUIRED.
09.01	REMOVE EXISTING FLOOR FINISH AND ASSOCIATED WALL BASE ENTIRELY. PATCH AND REPAIR EXISTING SLAB AS REQUIRED FOR NEW FINISHES.
09.02	REMOVE EXISTING CEILING SYSTEM AND LIGHT FIXTURES ENTIRELY. PATCH AND REPAIR AS REQUIRED.
09.03	REMOVE EXISTING CEILING SYSTEM AND REINSTALL AS REQUIRED FOR NEW WORK.
10.01	REMOVE EXISTING WALL MOUNTED FIRE EXTINGUISHER. COORDINATE WITH OWNER ON REINSTALLATION LOCATION.
10.02	REMOVE EXISTING WALL MOUNTED PROJECTION SCREEN AND PROJECTOR SYSTEM ENTIRELY. SALVAGE AND TURN OVER TO OWNER.
10.03	REMOVE EXISTING PICNIC TABLE ENTIRELY, SALVAGE AND TURN OVER TO OWNER.
10.04	REMOVE EXISTING CHALKBOARD, SALVAGE AND RETURN TO DISTRICT.
10.05	REMOVE EXISTING MARKERBOARD, SALVAGE AND RETURN TO DISTRICT.
10.06	REMOVE EXISTING TACKBOARD, SALVAGE AND RETURN TO DISTRICT.
10.07	REMOVE EXISTING PLUMBING ACCESSORIES, SALVAGE AND RETURN TO DISTRICT.
12.01	REMOVE EXISTING ACOUSTICAL WALL PANELS ENTIRELY. PATCH AND REPAIR AS REQUIRED.
22.01	REMOVE EXISTING COMMERCIAL SINK ENTIRELY. EXISTING PLUMBING TO REMAIN AND EXTEND TO NEW SINK LOCATION AS REQUIRED.
26.01	REMOVE EXISTING WALL MOUNTED CAMERA ENTIRELY. PATCH AND REPAIR AS REQUIRED.
27.01	REMOVE EXISTING WALL MOUNTED SPEAKER SYSTEM ENTIRELY. SALVAGE AND TURN OVER TO OWNER.
32.01	REMOVE AND RELOCATE EXISTING SHIPPING CONTAINER AND PROVIDE NEW GRAVEL PAD.
32.02	REMOVE EXISTING ASPHALT DRIVE AS REQUIRED FOR NEW CONSTRUCTION.



KEY PLAN

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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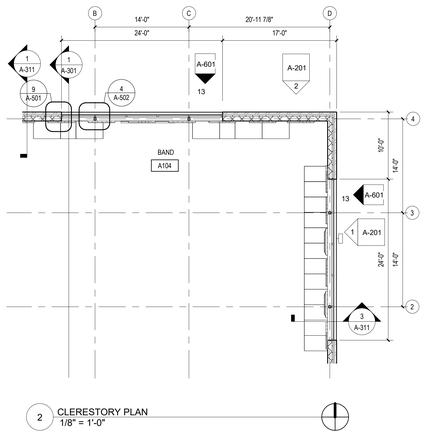
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	VP
CHECKED BY	JS

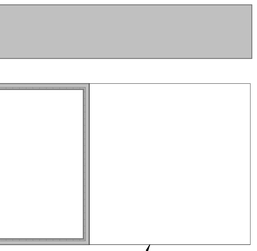
FIRST FLOOR DEMOLITION PLAN

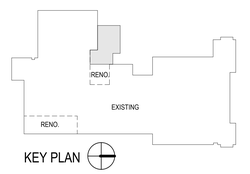
AD-101
BIDDING



2 CLERESTORY PLAN
1/8" = 1'-0"

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





KEY PLAN

FLOOR PLAN LEGEND

1 / A101 SIM — DETAIL SECTION TAG	MB# — MARKER BOARD
1 / A101 SIM — BUILDING & WALL SECTION TAG	TB# — TACK BOARD
S3FA — WALL TYPE - REFER TO A-611 FOR WALL TYPES	N### — NEW WORK NOTE
101 — DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE	AREA NOT IN CONTRACT
ROOM NAME 101 — ROOM NAME AND NUMBER	A101 1 Ref — STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
0 — COLUMN TAG AND COLUMN CENTERLINE	A101 1 Ref — EXTERIOR ELEVATION TAG
FD — FLOOR DRAIN	A101 1 Ref — INTERIOR ELEVATION TAG

GENERAL NOTES:
1. ALL WALLS TO BE TYPE M8 UNLESS NOTED OTHERWISE.
2. HALF-TONED FURNITURE AND EQUIPMENT IS OWNER PROVIDED.

ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
N03.01	ALTERNATE BID - PROVIDE NEW CONCRETE PAD WITH THICKENED EDGES FOR EXISTING GARAGE RELOCATION.
N4.01	NEW MASONRY INFILL TO MATCH EXISTING
N8.01	HOLLOW METAL FRAMED WINDOW SYSTEM - REFER TO FRAME TYPE A ON A-601.
N09.01	ONE (1) LAYER OF GYPSUM BOARD LAMINATED DIRECTLY TO EXISTING MASONRY WALL.
N10.01	PROVIDE ACOUSTICAL WALL PANELS ON ALL WALLS.
N10.02	OPEN SHELVING BY OWNER.
N10.03	HIGH DENSITY SHEET MUSIC STORAGE - B.O.D. = WENGER 7 SHELF UNIT
N33.01	EXISTING SHIPPING CONTAINER.

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DATE OF ISSUE	11.10.2023
DRAWN BY	VP
CHECKED BY	JS

FIRST FLOOR PLAN - MODULE A

A-101A
BIDDING

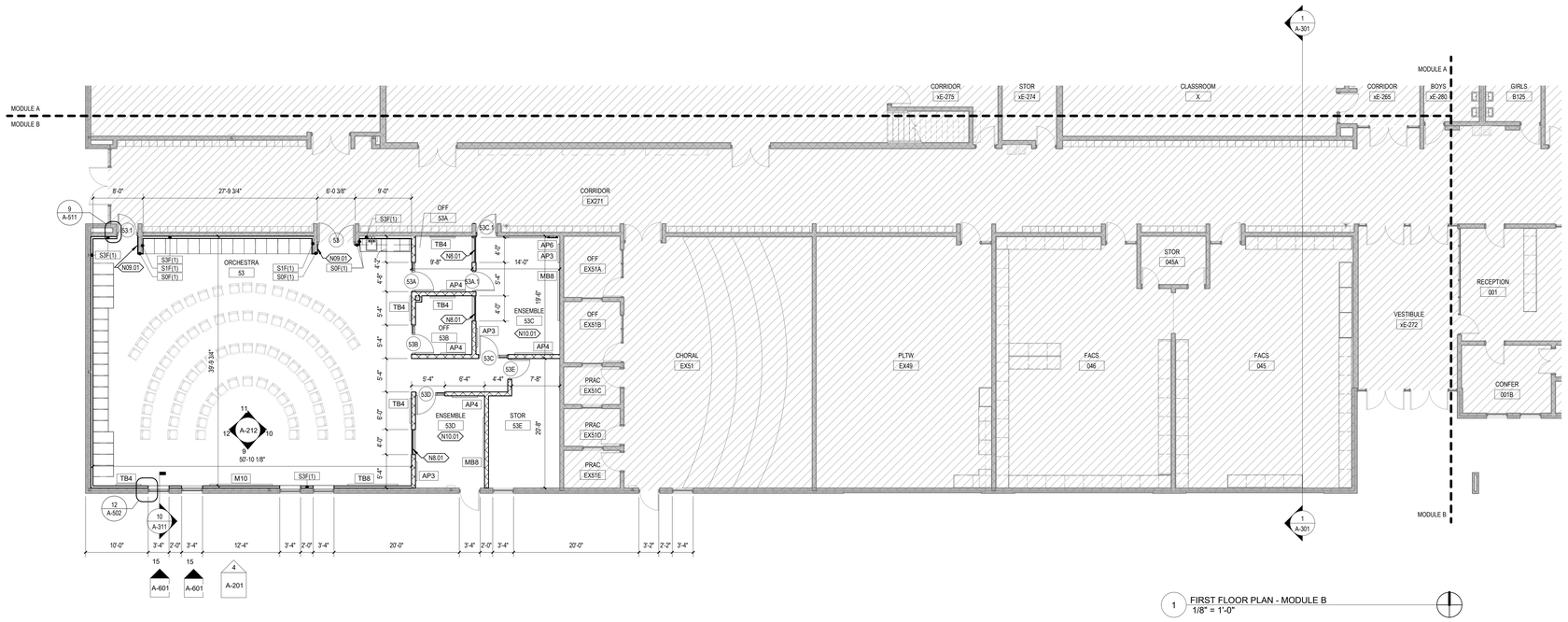
FLOOR PLAN LEGEND

1 / A101 SIM — DETAIL SECTION TAG	MB# — MARKER BOARD
1 / A101 SIM — BUILDING & WALL SECTION TAG	TB# — TACK BOARD
S3FA — WALL TYPE - REFER TO A-611 FOR WALL TYPES	N### — NEW WORK NOTE
101 — DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE	AREA NOT IN CONTRACT
ROOM NAME 101 — ROOM NAME AND NUMBER	A101 = Ref 1 — STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
0 — COLUMN TAG AND COLUMN CENTERLINE	A101 1 Ref — EXTERIOR ELEVATION TAG
FD — FLOOR DRAIN	A101 1 Ref — INTERIOR ELEVATION TAG

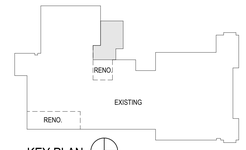
GENERAL NOTES:
1. ALL WALLS TO BE TYPE M9 UNLESS NOTED OTHERWISE.
2. HALF-TONED FURNITURE AND EQUIPMENT IS OWNER PROVIDED.

ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
N03.01	ALTERNATE BID - PROVIDE NEW CONCRETE PAD WITH THICKENED EDGES FOR EXISTING GARAGE RELOCATION.
N4.01	NEW MASONRY INFILL TO MATCH EXISTING
N8.01	HOLLOW METAL FRAMED WINDOW SYSTEM - REFER TO FRAME TYPE A ON A-601.
N09.01	ONE (1) LAYER OF GYPSUM BOARD LAMINATED DIRECTLY TO EXISTING MASONRY WALL.
N10.01	PROVIDE ACOUSTICAL WALL PANELS ON ALL WALLS.
N10.02	OPEN SHELVING BY OWNER.
N10.03	HIGH DENSITY SHEET MUSIC STORAGE - B.O.D. = WENGER 7 SHELF UNIT
N33.01	EXISTING SHIPPING CONTAINER.



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



KEY PLAN

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	VP
CHECKED BY	JS

FIRST FLOOR PLAN - MODULE B

A-101B
BIDDING

PAINT LEGEND & SCHEDULE		
PNT-1	FIELD PAINT	MANUF: SHERWIN WILLIAMS COLOR: ALABASTER SHEEN: REFER TO NOTES
PNT-2	ACCENT PAINT GRAY & ALL HM DOOR FRAMES	MANUF: SHERWIN WILLIAMS COLOR: GRIZZLE GRAY SHEEN: REFER TO NOTES
PNT-3	ACCENT PAINT RED	MANUF: SHERWIN WILLIAMS COLOR: HEARTTHROB SHEEN: REFER TO NOTES
PNT-4	ACCENT PAINT CEILING PAINT	MANUF: SHERWIN WILLIAMS COLOR: TRICORN BLACK SHEEN: REFER TO NOTES
PNT-5	ACCENT PAINT LIGHT GRAY	MANUF: SHERWIN WILLIAMS COLOR: ARGOS SHEEN: REFER TO NOTES

FINISH LEGEND & SCHEDULE (BASIS OF DESIGN)		
AWP-1	ACOUSTIC FABRIC AND DIFFUSER PANEL	MANUF: WENGER STYLE: ENCORE COLOR: SLATE
AWP-2	ACOUSTIC FABRIC AND DIFFUSER PANEL	MANUF: WENGER STYLE: ENCORE COLOR: CABERNET
CPTT-1	CARPET TILE FIELD	MANUF: MOHAWK STYLE: RISE UP COLOR: ROAN SIZE: 24" X 24"
CWT-1	CERAMIC WALL TILE GRAY FIELD	MANUF: DALTILE STYLE: COLOR WHEEL CLASSIC COLOR: DESERT GRAY SIZE: 4" X 4"
EMS	ENTRANCE MAT SYSTEMS	MANUF: SHAW CONTRACT STYLE: WELCOME II TILE ST031 COLOR: CHARCOAL SIZE: 24" X 24"
ERC-1	EPOXY COUNTERTOP	MANUF: KEWAUNEE STYLE: 1" THICK MOLDED EPOXY RESIN COLOR: BLACK SQUARE EDGE
FRP	FIBERGLASS REINFORCED PLASTIC	MANUF: MARLITE STYLE: PEBBLE COLOR: TBD
MT	METAL TRANSITION	MANUF: SCHLUTER STYLE: SCHIENE COLOR: BRUSHED ALUMINUM SIZE: REFER TO DETAILS
MWT-1	MOSAIC WALL TILE ACCENT WHITE	MANUF: DALTILE STYLE: COLOR WHEEL MOSAIC COLOR: ARTIC WHITE SIZE: 2" X 2"
MWT-2	MOSAIC WALL TILE ACCENT RED	MANUF: DALTILE STYLE: COLOR WHEEL MOSAIC COLOR: CURRANT SIZE: 2" X 2"
MWT-3	MOSAIC WALL TILE ACCENT GRAY	MANUF: DALTILE STYLE: COLOR WHEEL MOSAIC COLOR: SUEDE GRAY SIZE: 2" X 2"
PLAM-1	PLASTIC LAMINATE	MANUF: WILSONART COLOR: FUSION MAPLE
RB-1	RUBBER BASE	MANUF: JONHSONITE STYLE: COVED COLOR: CHARCOAL SIZE: 4"
SC	SEALED CONCRETE	MANUF: BRICKFORM GEM-SEAL 100
SSF-1	SOLID SURFACE	MANUF: CORIAN COLOR: YUKON RIVERSTONE
TRZ-1	TERRAZZO FIELD	MANUF: KEY RESIN AGGREGATES: DOMESTIC MARBLE COLOR: CEDAR DREAMS KRT - 1806
VCT-1	VINYL COMPOSITION TILE	MANUF: TARKETT STYLE: VCT II - EXCELON COLOR: 480 PURE WHITE
VCT-2	VINYL COMPOSITION TILE ACCENT	MANUF: TARKETT STYLE: VCT II - EXCELON COLOR: 51951 ARMOR GRAY
VWC-X	VINYL WALL COVERING	MANUF: MDC STYLE: SUEDE COLOR: CUSTOM GRAPHIC, COORDINATED WITH ARCHITECT, REFER TO PLAN FOR QUANTITY AND LOCATIONS
WD-1	WOOD DOORS	MANUF: GRAHAM DOOR SPECIES: MAPLE FINISH: TBD
WS	WINDOW SHADE SYSTEM	MANUF: DRAPER STYLE: 3% OPENNESS COLOR: TBD

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 WINDOW SHADE SYSTEM AT ALL NEW EXTERIOR WINDOWS EXCEPT THOSE IN CORRIDORS AND STAIRS AND UNLESS NOTED OTHERWISE.
5. PROVIDE 48" HIGH METAL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW GYPSUM BOARD PARTITIONS UNLESS NOTED OTHERWISE.
6. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
7. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
8. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.
9. 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.
10. BRICK WALLS SHALL NOT BE PAINTED. U.N.O.
11. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLANS FOR PORCELAIN TILE WALL PATTERN INFORMATION.
12. USE VERTICAL METAL EDGE TRANSITIONS IN PORCELAIN TILE WALL OUTSIDE CORNERS AND/OR IN PORCELAIN TILE WALL EXPOSED EDGES.
13. DO NOT INSTALL RUBBER BASE ON TOP OF PORCELAIN TILE WALL. (U.N.O.)
14. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION.
15. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-X (IPS-X) U.N.O. IN FINISH DRAWINGS
16. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.
17. 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.
18. METAL ACCESS LADDERS TO BE PAINTED PNT-X U.N.O.
19. REFER TO FINISH PLANS FOR PLASTIC LAMINATE (PLAM) AND SOLID SURFACE (SSF) COLOR DESIGNATIONS
20. 4"H STRAIGHT RUBBER BASE TO BE USED FOR ALL CARPET TILE LOCATIONS (U.N.O.)
21. 4"H COVED RUBBER BASE TO BE USED FOR ALL RESILIENT FLOORING LOCATIONS (U.N.O.)
22. INSTALL RUBBER COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.)
23. ALL SEALED CONCRETE FLOORS SHALL HAVE RUBBER BASE (U.N.O.).
24. CARPET TILE (CPTT) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.
25. REFER TO SPECIFICATIONS FOR RESILIENT TRANSITIONS (RT) PROFILES.
26. ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
27. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
28. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
29. PROVIDE VAPOR BARRIER SEALER ON CONCRETE SURFACES AT ALL AREAS TO RECEIVE CARPET AND/OR RESILIENT FLOORING.
30. 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.
31. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
32. 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.
33. 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.
34. 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.
35. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.
36. 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 1/4INCH.
   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 RUBBER 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

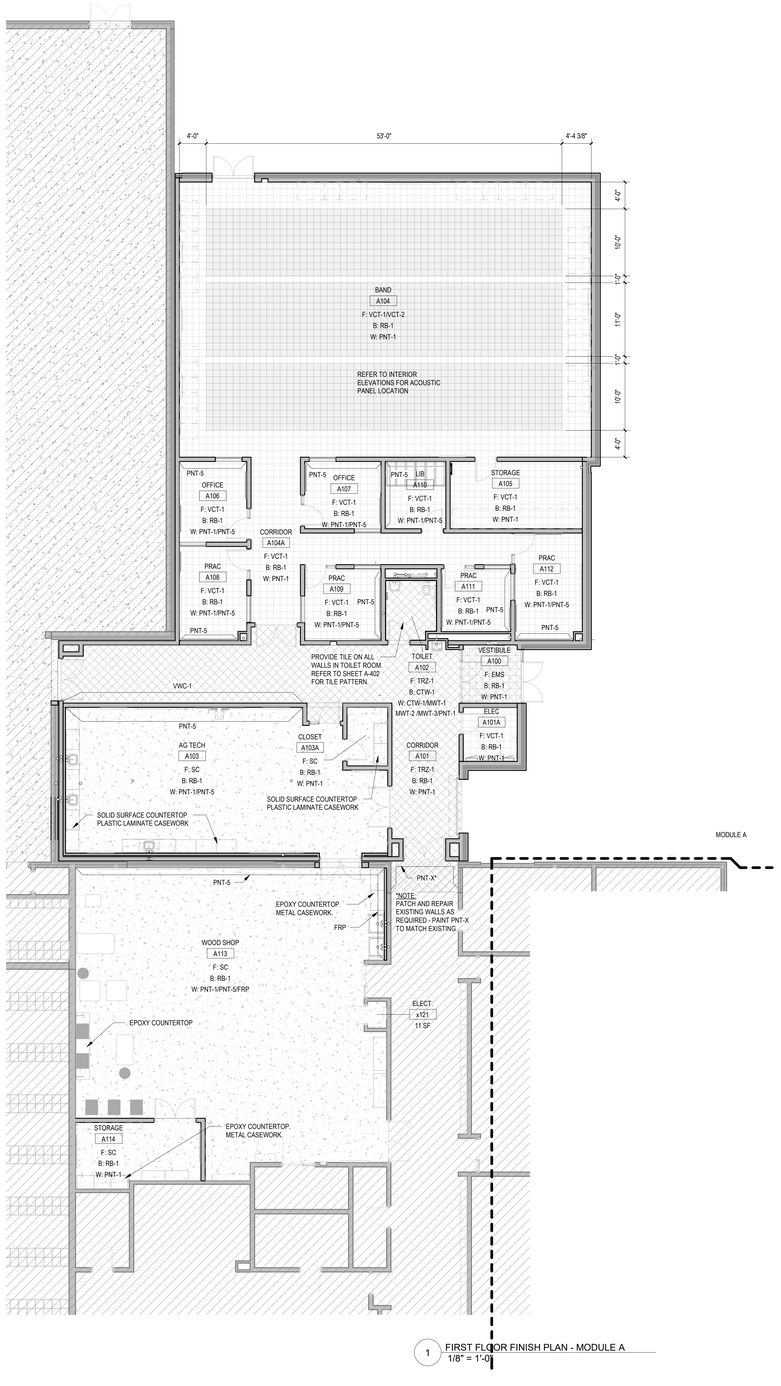
1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
   A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION (U.N.O.).
   B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE 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

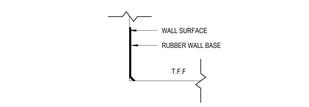
1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILING PLANS FOR ACT INFORMATION.
3. WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT 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.
4. ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 (IPS-_) (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 DUCKWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED (U.N.O.) IN FINISH PLANS

INTERIOR PAINT SYSTEM

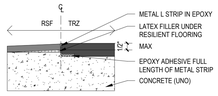
IPS-LF	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, FLAT
IPS-LE	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, EGGSHELL
IPS-LS	LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, SEMI-GLOSS
IPS-LF-V	LATEX INTERIOR, INSTITUTIONAL LOW OOOR/VOC, FLAT
IPS-LE-V	LATEX INTERIOR, INSTITUTIONAL LOW OOOR/VOC, EGGSHELL
IPS-LS-V	LATEX INTERIOR, INSTITUTIONAL LOW OOOR/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



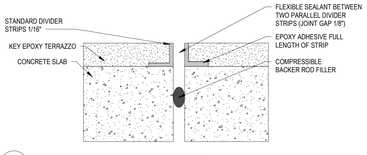
1 FIRST FLOOR FINISH PLAN - MODULE A
1/8" = 1'-0"



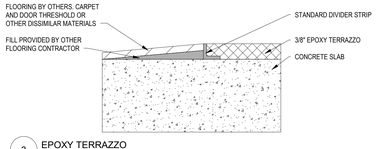
6 COVED RUBBER WALL BASE
3" = 1'-0"



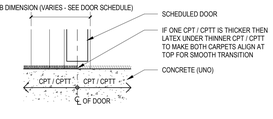
5 RESILIENT/TERRAZZO - METAL TRANSITION
3" = 1'-0"



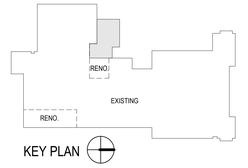
4 EXPANSION/ISOLATION JOINT DETAIL
1 1/2" = 1'-0"



3 EPOXY TERRAZZO
1 1/2" = 1'-0"



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



KEY PLAN

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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REVISIONS

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DATE OF ISSUE	11.10.2023
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CHECKED BY	JS

FIRST FLOOR FINISH PLAN - MODULE A

AF101A
BIDDING

PAINT LEGEND & SCHEDULE		
PNT-1	FIELD PAINT	MANUF: SHERWIN WILLIAMS COLOR: ALABASTER SHEEN: REFER TO NOTES
PNT-2	ACCENT PAINT GRAY & ALL HM DOOR FRAMES	MANUF: SHERWIN WILLIAMS COLOR: GRIZZLE GRAY SHEEN: REFER TO NOTES
PNT-3	ACCENT PAINT RED	MANUF: SHERWIN WILLIAMS COLOR: HEARTTHROB SHEEN: REFER TO NOTES
PNT-4	ACCENT PAINT CEILING PAINT	MANUF: SHERWIN WILLIAMS COLOR: TRICORN BLACK SHEEN: REFER TO NOTES
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AWP-1	ACOUSTIC FABRIC AND DIFFUSER PANEL	MANUF: WENGER STYLE: ENCORE COLOR: SLATE
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FRP	FIBERGLASS REINFORCED PLASTIC	MANUF: MARLITE STYLE: PEBBLE COLOR: TBD
MT	METAL TRANSITION	MANUF: SCHLUTER STYLE: SCHIENE COLOR: BRUSHED ALUMINUM SIZE: REFER TO DETAILS
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MWT-2	MOSAIC WALL TILE ACCENT RED	MANUF: DALTILE STYLE: COLOR WHEEL MOSAIC COLOR: CURRANT SIZE: 2" X 2"
MWT-3	MOSAIC WALL TILE ACCENT GRAY	MANUF: DALTILE STYLE: COLOR WHEEL MOSAIC COLOR: SUEDE GRAY SIZE: 2" X 2"
PLAM-1	PLASTIC LAMINATE	MANUF: WILSONART COLOR: FUSION MAPLE
RB-1	RUBBER BASE	MANUF: JOHNSONITE STYLE: COVED COLOR: CHARCOAL SIZE: 4"
SC	SEALED CONCRETE	MANUF: BRICKFORM GEM-SEAL 100
SSF-1	SOLID SURFACE	MANUF: CORIAN COLOR: YUKON RIVERSTONE
TRZ-1	TERRAZZO FIELD	MANUF: KEY RESIN AGGREGATES: DOMESTIC MARBLE COLOR: CEDAR DREAMS KRT - 1806
VCT-1	VINYL COMPOSTITION TILE	MANUF: TARKETT STYLE: VCT II - EXCELON COLOR: 480 PURE WHITE
VCT-2	VINYL COMPOSTITION TILE ACCENT	MANUF: TARKETT STYLE: VCT II - EXCELON COLOR: 51951 ARMOR GRAY
VWC-X	VINYL WALL COVERING	MANUF: MDC STYLE: SUEDE COLOR: CUSTOM GRAPHIC, COORDINATED WITH ARCHITECT, REFER TO PLAN FOR QUANTITY AND LOCATIONS
WD-1	WOOD DOORS	MANUF: GRAHAM DOOR SPECIES: MAPLE FINISH: TBD
WS	WINDOW SHADE SYSTEM	MANUF: DRAPER STYLE: 3% OPENNESS COLOR: TBD

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 WINDOW SHADE SYSTEM AT ALL NEW EXTERIOR WINDOWS EXCEPT THOSE IN CORRIDORS AND STAIRS AND UNLESS NOTED OTHERWISE.
5. PROVIDE 48" HIGH METAL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW GYPSUM BOARD PARTITIONS UNLESS NOTED OTHERWISE.
6. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
7. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
8. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.
9. 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.
10. BRICK WALLS SHALL NOT BE PAINTED. U.N.O.
11. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLANS FOR PORCELAIN TILE WALL PATTERN INFORMATION.
12. USE VERTICAL METAL EDGE TRANSITIONS IN PORCELAIN TILE WALL OUTSIDE CORNERS AND/OR IN PORCELAIN TILE WALL EXPOSED EDGES.
13. DO NOT INSTALL RUBBER BASE ON TOP OF PORCELAIN TILE WALL. (U.N.O.)
14. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION.
15. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-X (IPS-X) U.N.O. IN FINISH DRAWINGS
16. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.
17. 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.
18. METAL ACCESS LADDERS TO BE PAINTED PNT-X U.N.O.
19. REFER TO FINISH PLANS FOR PLASTIC LAMINATE (PLAM) AND SOLID SURFACE (SSF) COLOR DESIGNATIONS
20. 4"H STRAIGHT RUBBER BASE TO BE USED FOR ALL CARPET TILE LOCATIONS (U.N.O.)
21. 4"H COVED RUBBER BASE TO BE USED FOR ALL RESILIENT FLOORING LOCATIONS (U.N.O.)
22. INSTALL RUBBER COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.)
23. ALL SEALED CONCRETE FLOORS SHALL HAVE RUBBER BASE (U.N.O.).
24. CARPET TILE (CPTT) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.
25. REFER TO SPECIFICATIONS FOR RESILIENT TRANSITIONS (RT) PROFILES.
26. ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
27. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
28. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
29. PROVIDE VAPOR BARRIER SEALER ON CONCRETE SURFACES AT ALL AREAS TO RECEIVE CARPET AND/OR RESILIENT FLOORING.
30. 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.
31. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
32. 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.
33. 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.
34. 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.
35. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.
36. 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 1/4INCH.
   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 RUBBER 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

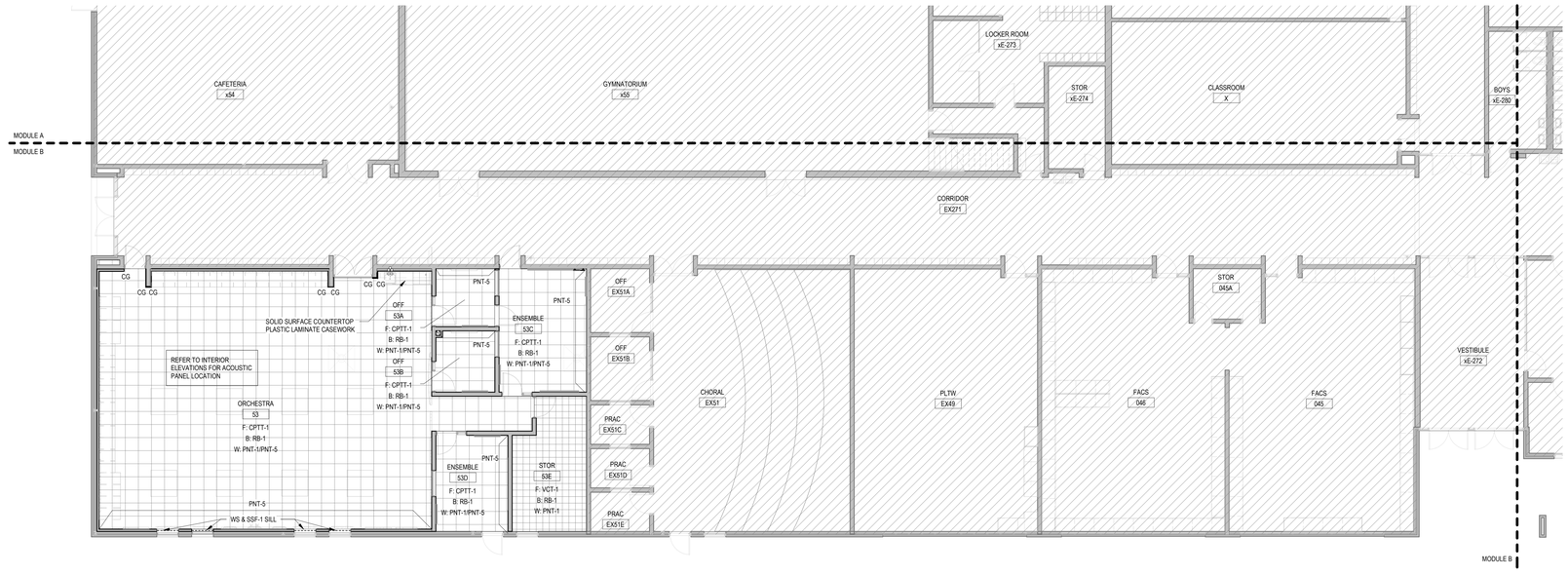
1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
   A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION (U.N.O.).
   B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE 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

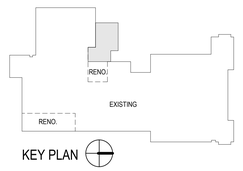
1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILING PLANS FOR ACT INFORMATION.
3. WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT 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.
4. ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 **(IPS-)** (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 DUCKWORK 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-MIC	MULTICOLOR INTERIOR PAINT



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



KEY PLAN

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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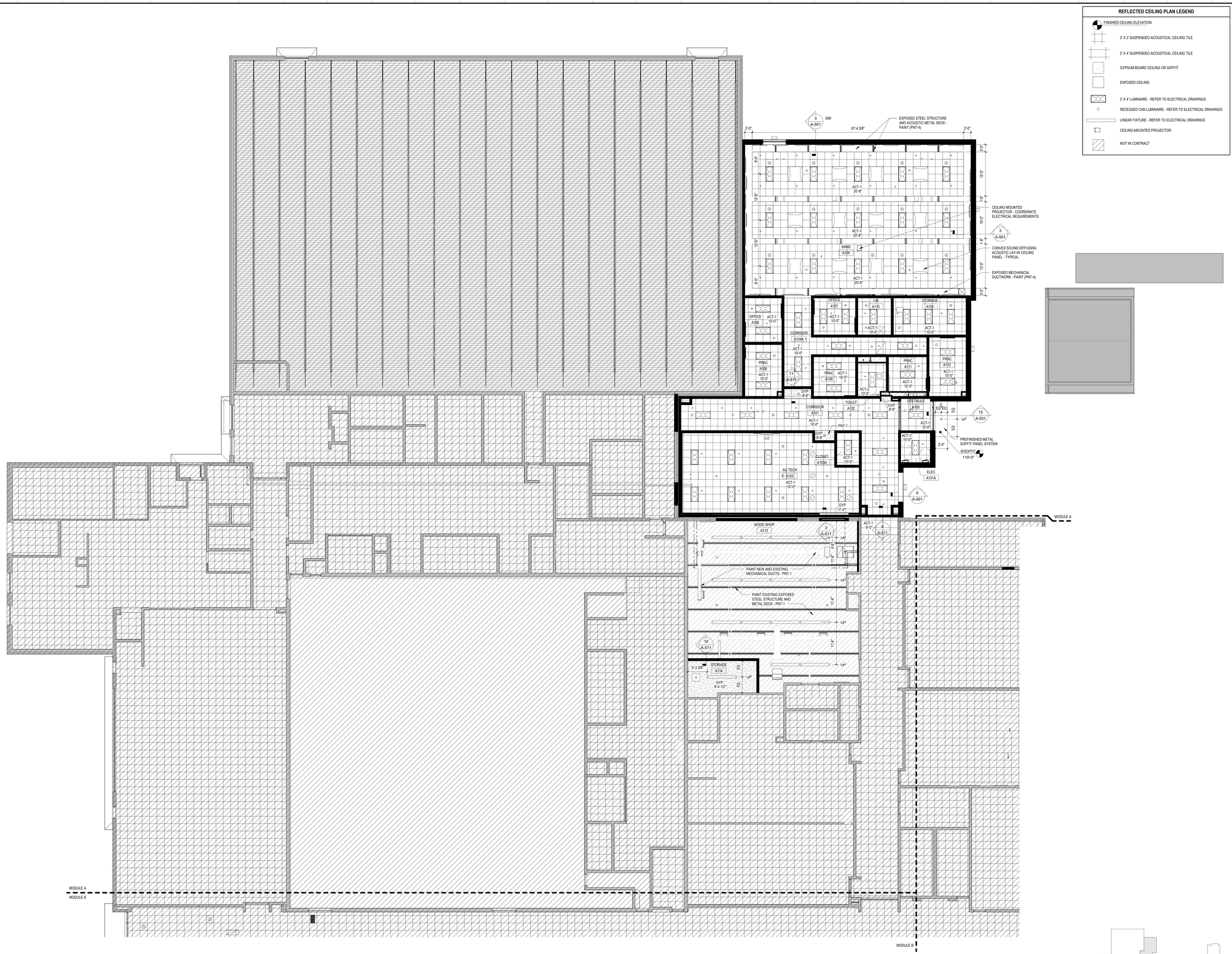
CHECKED BY	JS

FIRST FLOOR FINISH PLAN - MODULE B

AF101B
BIDDING



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

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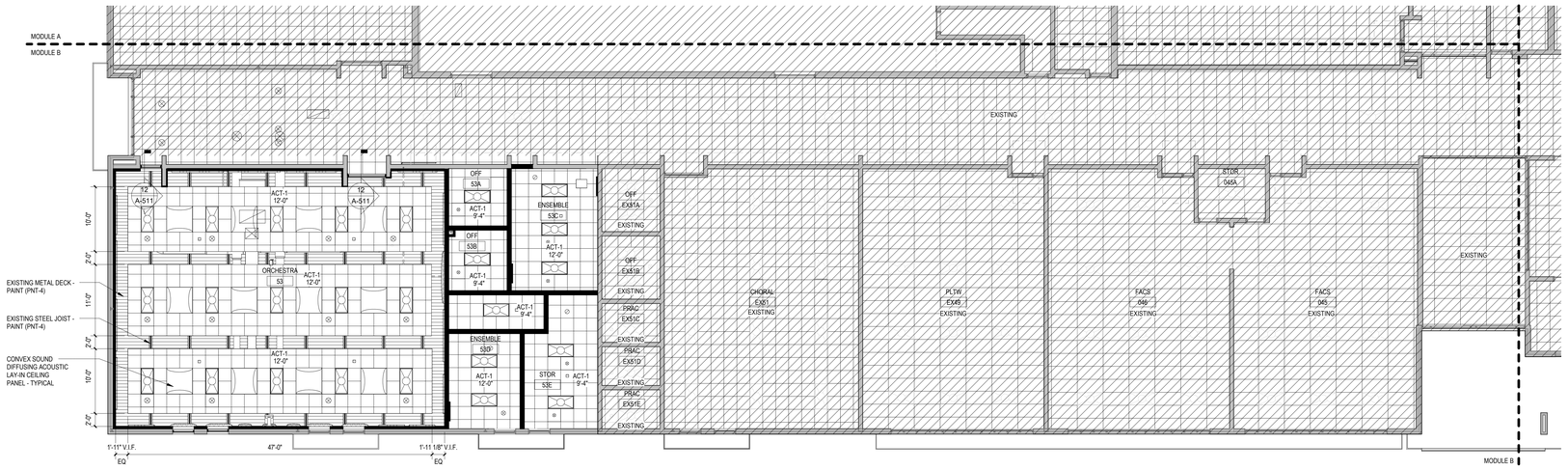
FIRST FLOOR REFLECTED CEILING PLAN - MODULE A

AC101A

BIDDING

REFLECTED CEILING PLAN LEGEND

- FINISHED CEILING ELEVATION
- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE
- 2' X 4' SUSPENDED ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING OR SOFFIT
- EXPOSED CEILING
- 2' X 4' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- LINEAR FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CEILING-MOUNTED PROJECTOR
- NOT IN CONTRACT



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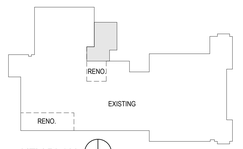

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FIRST FLOOR REFLECTED CEILING PLAN - MODULE B

AC101B
BIDDING

1 ROOF PLAN - MODULE A
1/8" = 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
- VP — VENT PIPE ROOF PENETRATION
- DSN — DOWNSPOUT NOZZLE
- EF — EXHAUST FAN
- RH — ROOF HYDRANT
- RL — ROOF LADDER
- RTU — ROOF TOP MECHANICAL UNIT
- SC — THROUGH WALL SCUPPER
- EEF — EXISTING EXHAUST FAN
- ERD — EXISTING ROOF DRAIN
- ERTU — EXISTING ROOF TOP MECHANICAL UNIT
- FIRE RATED EXPANSION JOINT ASSEMBLY
- WALKWAY PAD
- NOT IN CONTRACT

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 MANUFACTURER'S 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 AR101A.

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: A1, A2
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 TAPPERED 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: A3
METAL DECK

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER, WRAP OVER PARAPET.
3. INSTALL TAPPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, AND THROUGH WALL SCUPPERS

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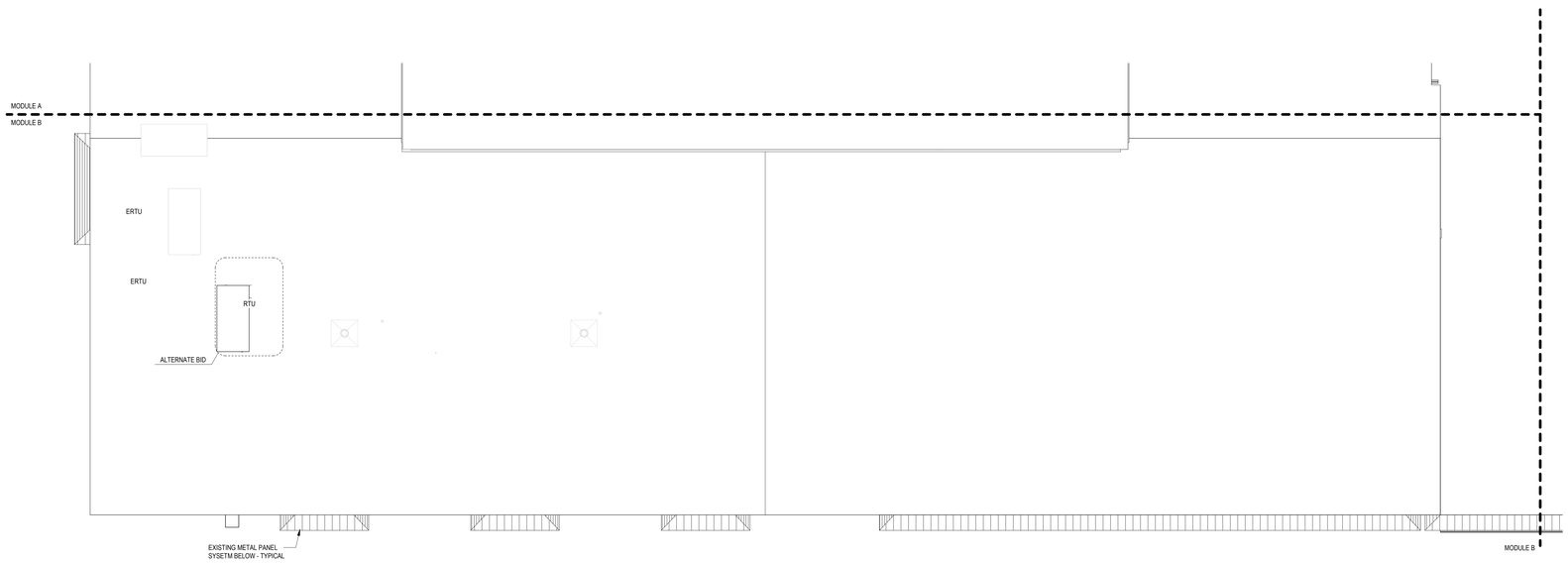
ROOF PLAN - MODULE A

AR101A
BIDDING



1 ROOF PLAN - MODULE B
1/8" = 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
- OFRD — OVERFLOW ROOF DRAIN
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- EEF — EXISTING EXHAUST FAN
- ERD — EXISTING ROOF DRAIN
- ERTU — EXISTING ROOF TOP MECHANICAL UNIT
- FIRE RATED EXPANSION JOINT ASSEMBLY
- WALKWAY PAD
- NOT IN CONTRACT

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 MANUFACTURER'S 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 AR101A.

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.

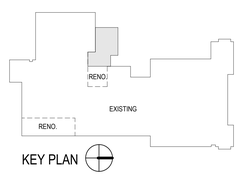
ROOF CONSTRUCTION NOTES

ROOF AREA: A1, A2
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 TAPPERED 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: A3
METAL DECK

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TAPPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, AND THROUGH WALL SCUPPERS



KEY PLAN

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

502 South 5th Street
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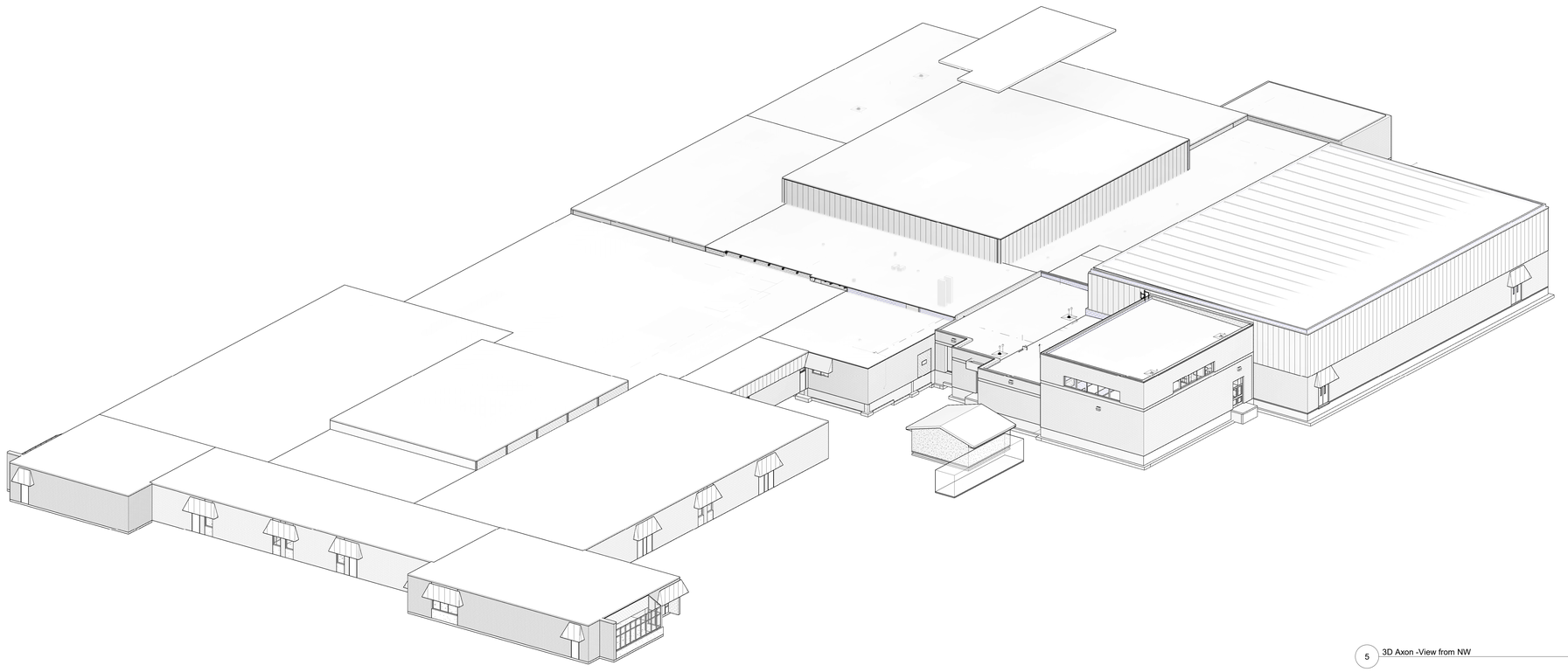
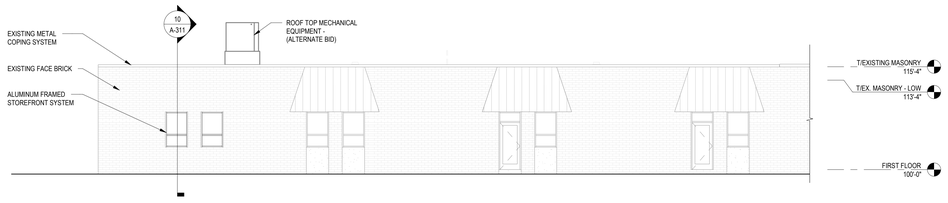
ROOF PLAN - MODULE B

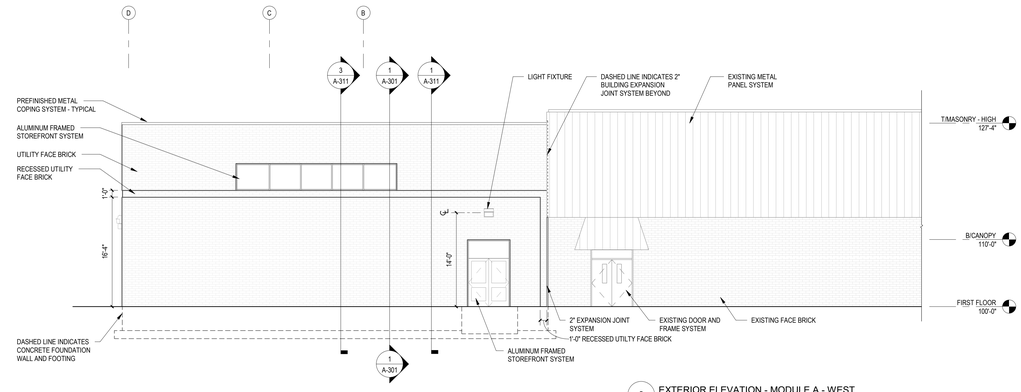
AR101B
BIDDING



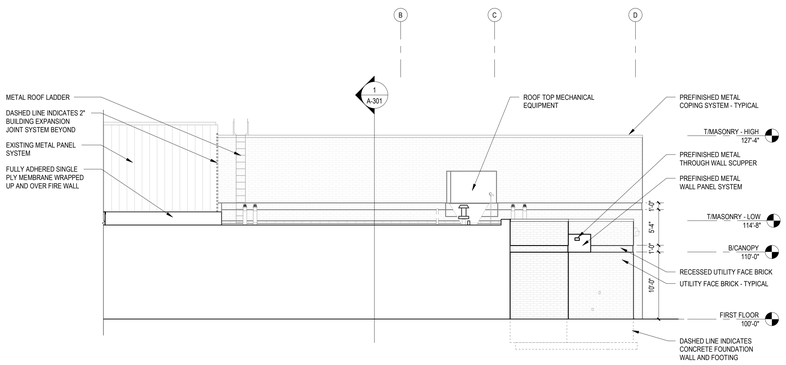
5 3D Axon -View from NW



4 EXERIOR ELEVATION - MODULE B - EAST
1/8" = 1'-0" A-101B



2 EXTERIOR ELEVATION - MODULE A - WEST
1/8" = 1'-0" A-101A



3 EXTERIOR ELEVATION - MODULE A - EAST
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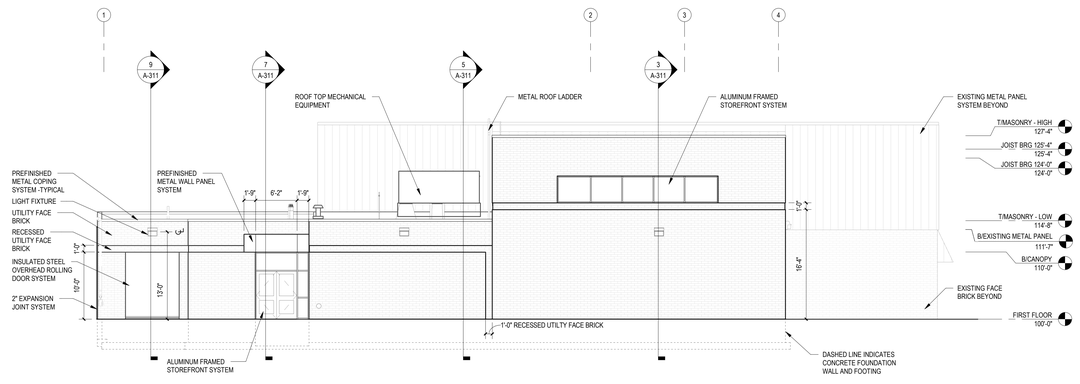

1 EXTERIOR ELEVATION - MODULE A - NORTH
1/8" = 1'-0" A-101A

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EXTERIOR BUILDING ELEVATIONS

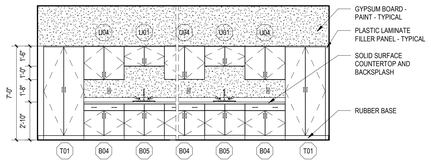
A-201
BIDDING

CASEWORK SCHEDULE

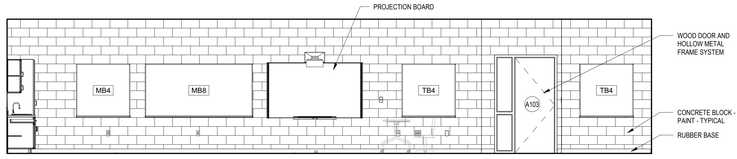
TYPE	DESCRIPTION	HEIGHT (INCHES)	WIDTH (INCHES)	DEPTH (INCHES)	COMMENTS
BASE CABINETS					
ADA	PLASTIC LAMINATE ADA BASE SINK PANELS	34	<varies>	25	
B01	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DRAWER, (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF	32.5	18	24	
B02	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	30	24	
B03	PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DRAWERS, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	36	24	
B04	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	36	24	
B05	PLASTIC LAMINATE SINK BASE CABINET : (2) LOCKABLE DOORS	32.5	36	24	
MB01	METAL BASE CABINET: (2) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	30	24	
MB02	METAL BASE CABINET: (1) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	36	24	
MUSIC STORAGE					
M01	15 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 2	85.625	27.5	31.75	
M02	10 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 5	85.625	27.5	41.75	
M03	7 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 7	85.625	27.5	41.75	
M04	3 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 10	85.625	27.5	31.75	
M05	3 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 11	85.625	27.5	41.75	
M06	3 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 12	85.625	48.5	31.75	
M07	3 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 46	85.625	27.5	31.75	
M08	10 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 9N	85.625	21.5	39.25	
M09	1 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 8N	85.625	21.5	29.25	
M10	2 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 9N	85.625	21.5	29.25	
TALL CABINETS					
MT01	METAL TALL CABINET: (2) LOCKABLE DOORS, 12 INCH X 12 INCH CUBBIES, PEG BOARD BACK LINER.	84	60	24	
MT02	METAL TALL CABINET: (2) LOCKABLE DOORS (5) ADJUSTABLE SHELVES	84	42	18	
MT03	METAL TALL CABINET: (2) LOCKABLE DOORS, FLAMMABLES STORAGE UNIT	84	42	18	
T01	PLASTIC LAMINATE TALL CABINET: (2) LOCKABLE DOORS, (5) ADJUSTALE SHELVES	84	36	24	
UPPER CABINETS					
MU01	METAL WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	18	42	12	
MU02	METAL WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	30	30	12	
MU03	METAL WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	30	36	12	
U01	PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTALE SHELF	18	36	12	
U02	PLASTIC LAMINATE WALL CABINET: (1) LOCKABLE DOOR, (1) ADJUSTALE SHELF	30	18	12	
U03	PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTALE SHELF	30	30	12	
U04	PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTALE SHELF	30	36	12	

ACOUSTICAL TREATMENT LEGEND

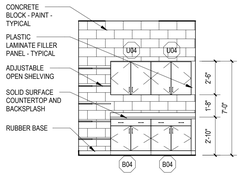
MARK	PANEL TYPE	PANEL COLOR	SIZE
DP1	DIFFUSER PANEL	RED	24"x48"x3"
DP2	DIFFUSER PANEL	GRAY	36"x48"x3"
DP3	DIFFUSER PANEL	RED	36"x72"x3"
DP4	DIFFUSER PANEL	GRAY	36"x72"x3"
DP5	DIFFUSER PANEL	RED	48"x96"x3"
AP1	ACOUSTICAL PANEL	GRAY	36"x48"x3"
AP2	ACOUSTICAL PANEL	GRAY	48"x48"x3"
AP3	ACOUSTICAL PANEL	RED	36"x72"x3"
AP4	ACOUSTICAL PANEL	RED	48"x72"x3"
AP5	ACOUSTICAL PANEL	GRAY	48"x96"x3"
AP6	ACOUSTICAL PANEL	RED	48"x96"x3"



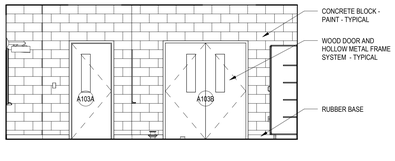
14 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



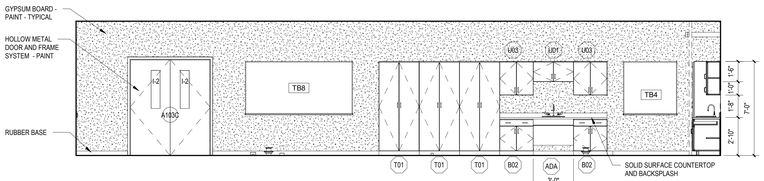
13 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



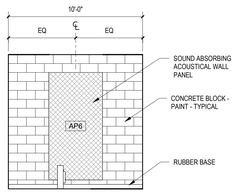
12 AG TECH STORAGE NORTH
1/4" = 1'-0"
A-101A



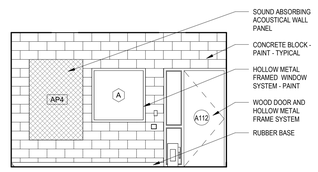
11 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



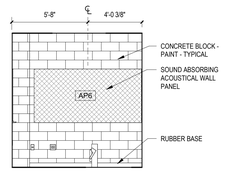
10 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



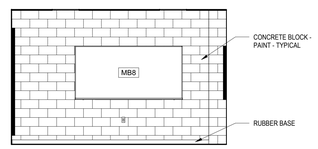
9 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



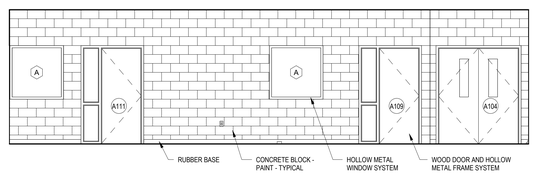
8 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



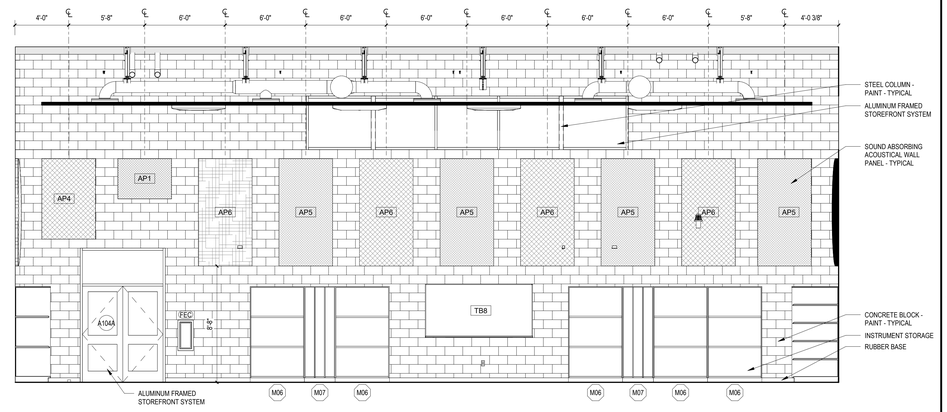
7 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



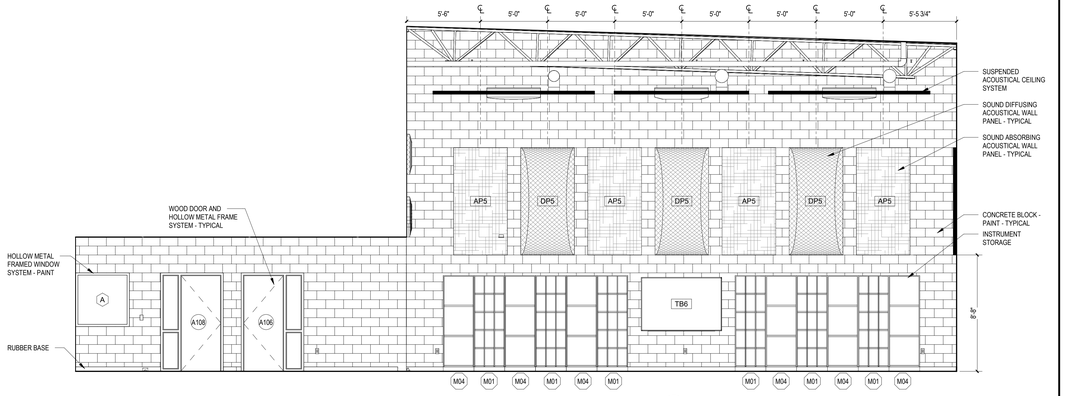
6 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



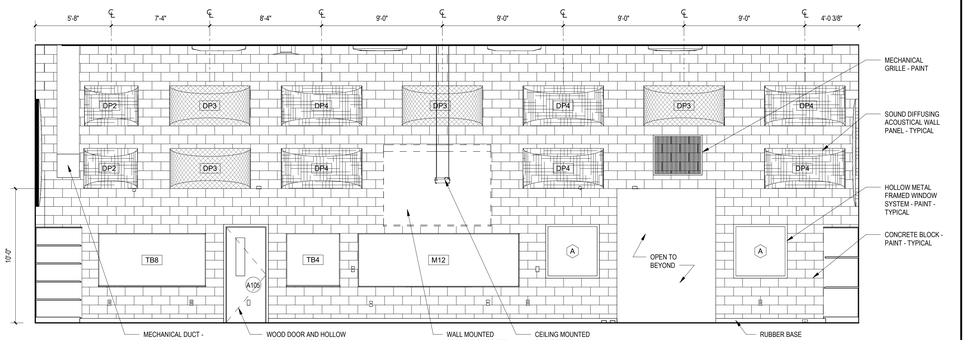
5 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



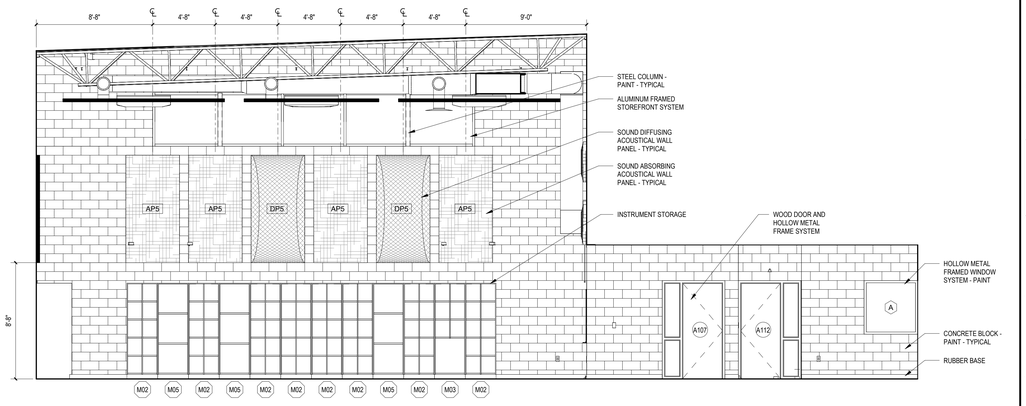
4 INTERIOR ELEVATION
1/4" = 1'-0"
A-101A



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



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



1 INTERIOR ELEVATION
1/4" = 1'-0"
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INTERIOR ELEVATIONS

A-211
BIDDING

CASEWORK SCHEDULE

TYPE	DESCRIPTION	HEIGHT (INCHES)	WIDTH (INCHES)	DEPTH (INCHES)	COMMENTS
BASE CABINETS					
ADA	PLASTIC LAMINATE ADA BASE SINK PANELS	34	<varies>	25	
B01	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DRAWER, (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF	32.5	18	24	
B02	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	30	24	
B03	PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DRAWERS, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	36	24	
B04	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	36	24	
B05	PLASTIC LAMINATE SINK BASE CABINET : (2) LOCKABLE DOORS	32.5	36	24	
MB01	METAL BASE CABINET: (2) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	30	24	
MB02	METAL BASE CABINET: (1) LOCKABLE DRAWER, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	32.5	36	24	
MUSIC STORAGE					
M01	15 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 2	85.625	27.5	31.75	
M02	10 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 5	85.625	27.5	41.75	
M03	7 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 7	85.625	27.5	41.75	
M04	3 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 10	85.625	27.5	31.75	
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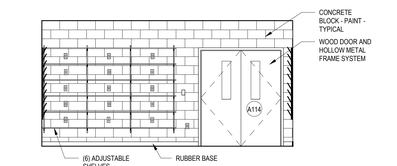
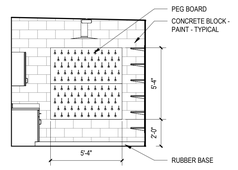
M06	3 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 12	85.625	48.5	31.75	
M07	3 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 46	85.625	27.5	31.75	
M08	10 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 9N	85.625	21.5	39.25	
M09	1 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 8N	85.625	21.5	29.25	
M10	2 COMPARTMENT - B.O.D. = WENGER ULTRASTOR 9N	85.625	21.5	29.25	
TALL CABINETS					
MT01	METAL TALL CABINET: (2) LOCKABLE DOORS, 12 INCH X 12 INCH CUBBIES, PEG BOARD BACK LINER.	84	60	24	
MT02	METAL TALL CABINET: (2) LOCKABLE DOORS (5) ADJUSTABLE SHELVES	84	42	18	
MT03	METAL TALL CABINET: (2) LOCKABLE DOORS, FLAMMABLES STORAGE UNIT	84	42	18	
T01	PLASTIC LAMINATE TALL CABINET: (2) LOCKABLE DOORS, (5) ADJUSTALE SHELVES	84	36	24	
UPPER CABINETS					
MU01	METAL WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	18	42	12	
MU02	METAL WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	30	30	12	
MU03	METAL WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	30	36	12	
U01	PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTALE SHELF	18	36	12	
U02	PLASTIC LAMINATE WALL CABINET: (1) LOCKABLE DOOR, (1) ADJUSTALE SHELF	30	18	12	
U03	PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTALE SHELF	30	30	12	
U04	PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTALE SHELF	30	36	12	

ACOUSTICAL TREATMENT LEGEND

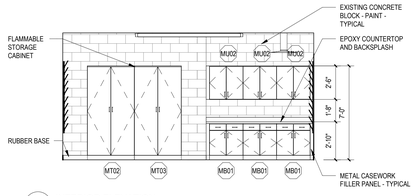
MARK	PANEL TYPE	PANEL COLOR	SIZE
DP1	DIFFUSER PANEL	RED	24"x48"x3"
DP2	DIFFUSER PANEL	GRAY	36"x48"x3"
DP3	DIFFUSER PANEL	RED	36"x72"x3"
DP4	DIFFUSER PANEL	GRAY	36"x72"x3"
DP5	DIFFUSER PANEL	RED	48"x96"x3"
AP1	ACOUSTICAL PANEL	GRAY	36"x48"x3"
AP2	ACOUSTICAL PANEL	GRAY	48"x48"x3"
AP3	ACOUSTICAL PANEL	RED	36"x72"x3"
AP4	ACOUSTICAL PANEL	RED	48"x72"x3"
AP5	ACOUSTICAL PANEL	GRAY	48"x96"x3"
AP6	ACOUSTICAL PANEL	RED	48"x96"x3"



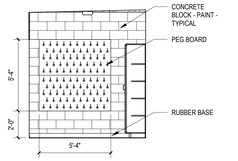
8 INTERIOR ELEVATION
1/4" = 1'-0" A-101A



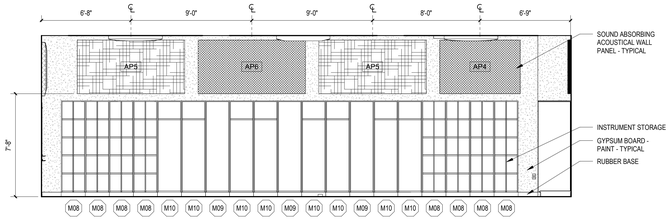
7 INTERIOR ELEVATION
1/4" = 1'-0" A-101A



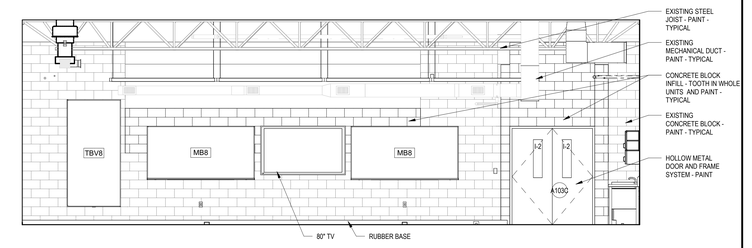
6 INTERIOR ELEVATION
1/4" = 1'-0" A-101A



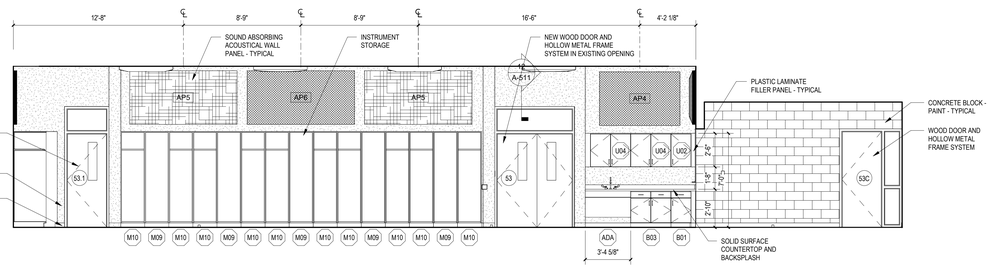
5 INTERIOR ELEVATION
1/4" = 1'-0" A-101A



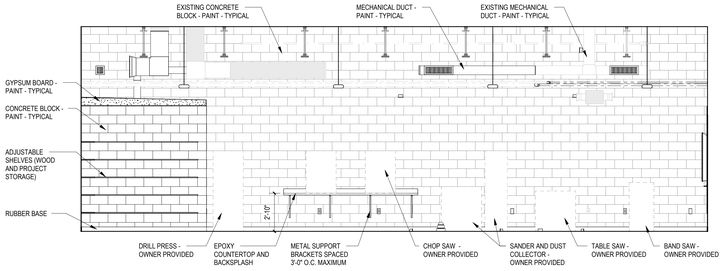
12 INTERIOR ELEVATION
1/4" = 1'-0" A-101B



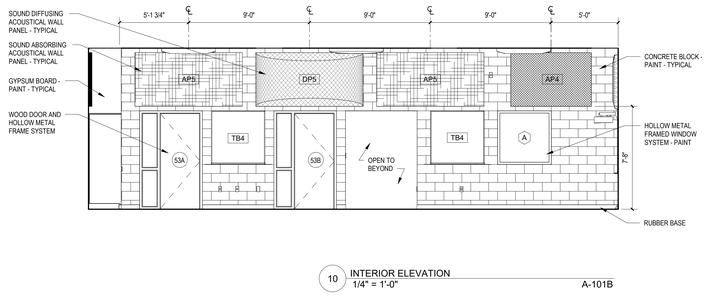
4 INTERIOR ELEVATION
1/4" = 1'-0" A-101A



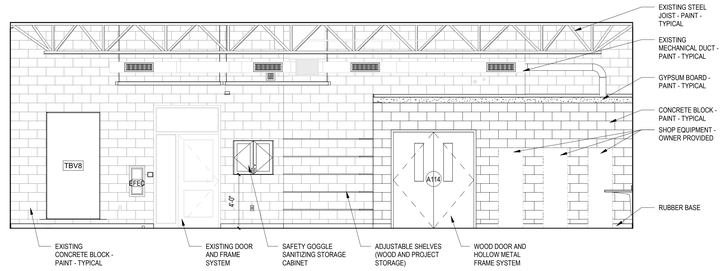
11 INTERIOR ELEVATION
1/4" = 1'-0" A-101B



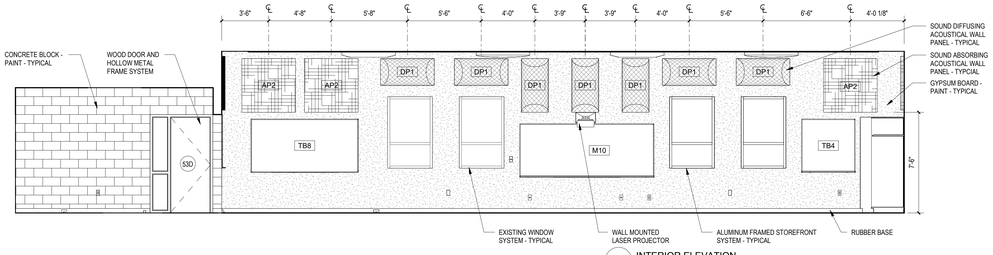
3 INTERIOR ELEVATION
1/4" = 1'-0" A-101A



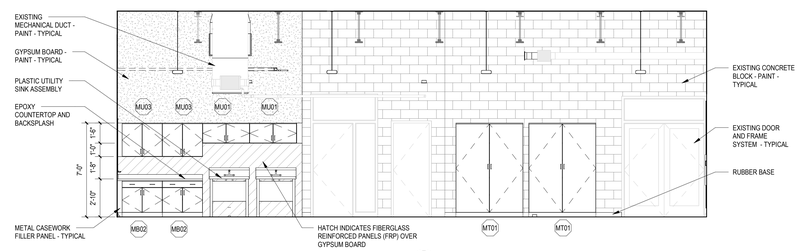
10 INTERIOR ELEVATION
1/4" = 1'-0" A-101B



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



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



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

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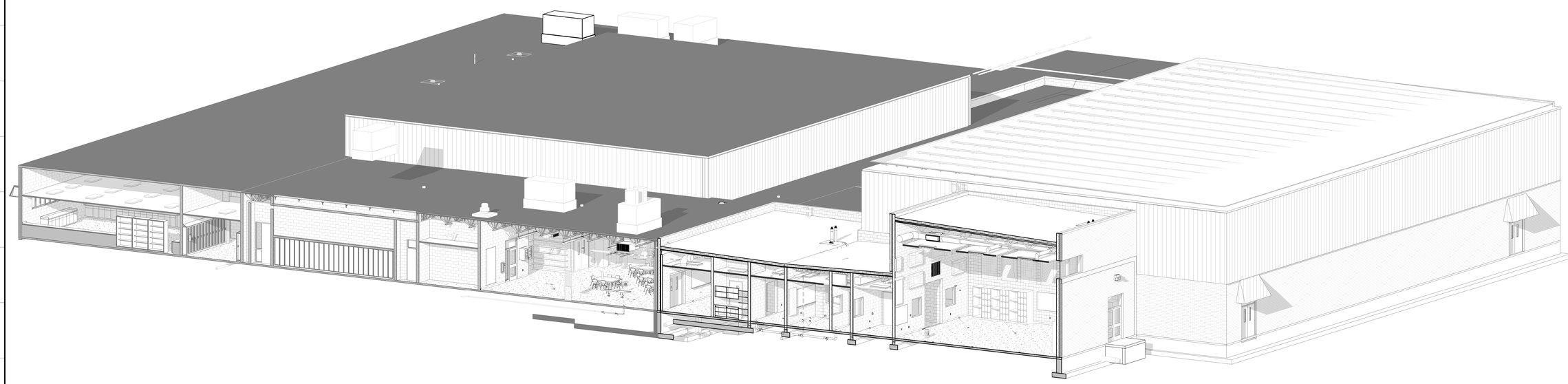
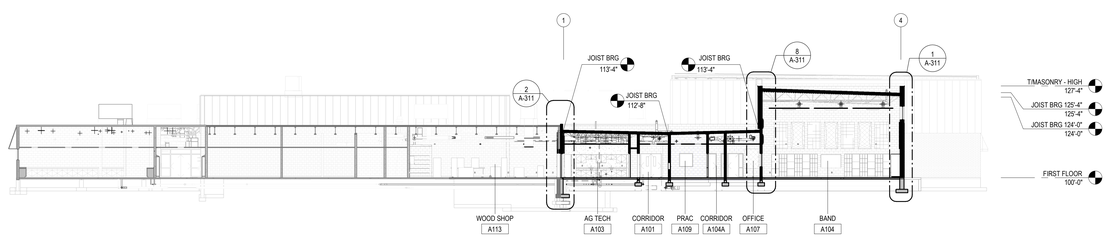
INTERIOR ELEVATIONS

A-212
BIDDING



2 3D BUILDING SECTION



1 BUILDING SECTION - SOUTH - MODULE A
1/16" = 1'-0"

A-101A

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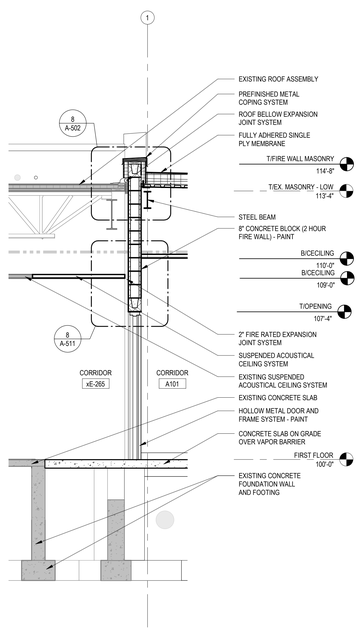
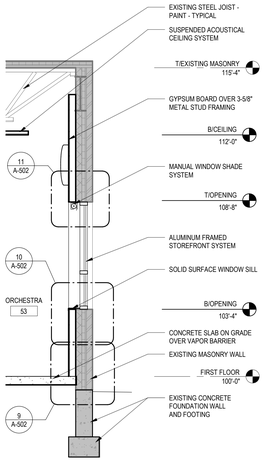
BUILDING SECTIONS

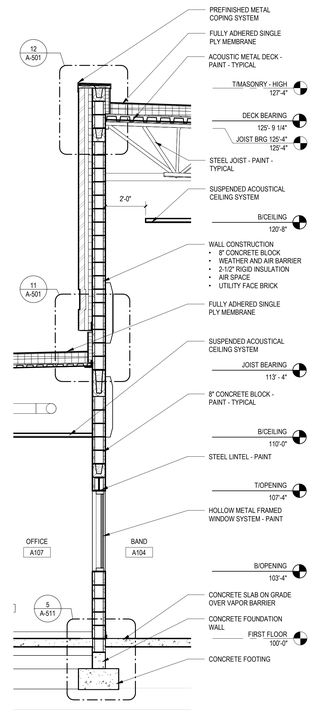
A-301
BIDDING



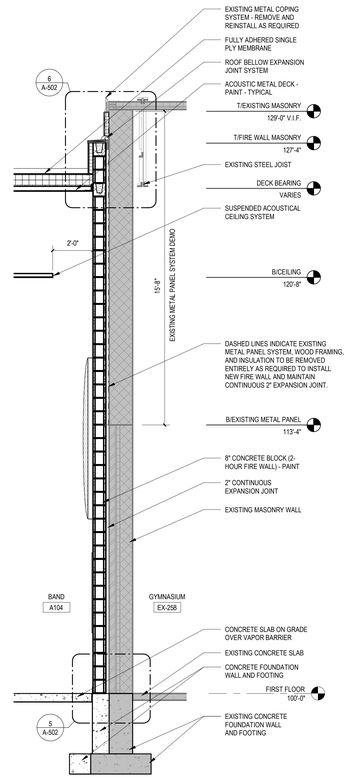
11 WALL SECTION
3/8" = 1'-0"
A-101A



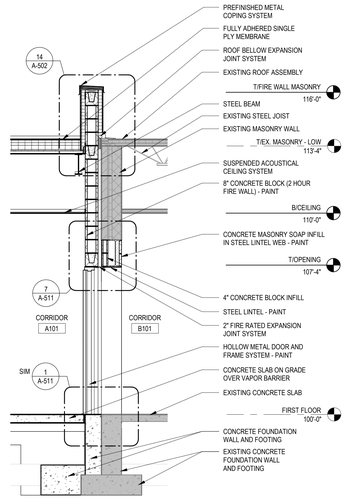
10 WALL SECTION
3/8" = 1'-0"
A-101B



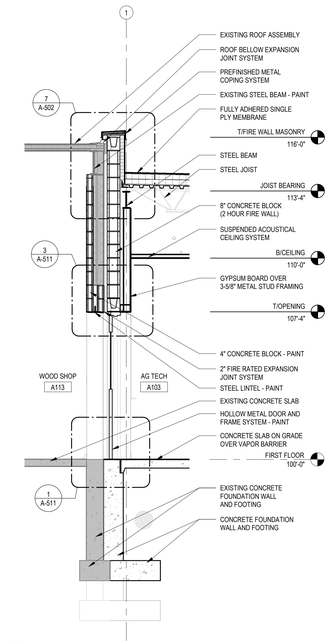
8 WALL SECTION
3/8" = 1'-0"
A-101A



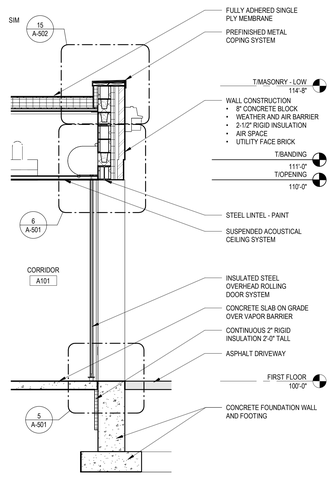
6 WALL SECTION
3/8" = 1'-0"
A-101A



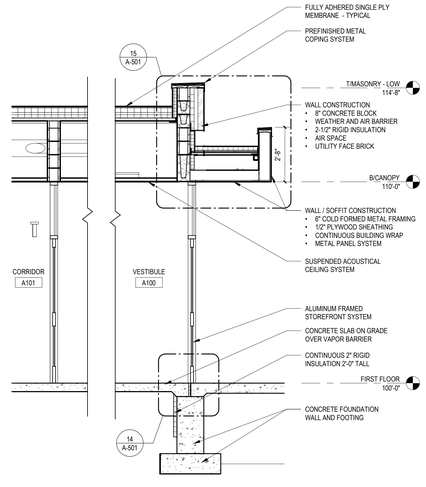
4 WALL SECTION
3/8" = 1'-0"
A-101A



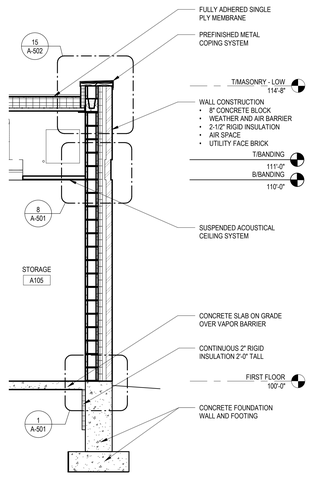
2 WALL SECTION
3/8" = 1'-0"
A-101A



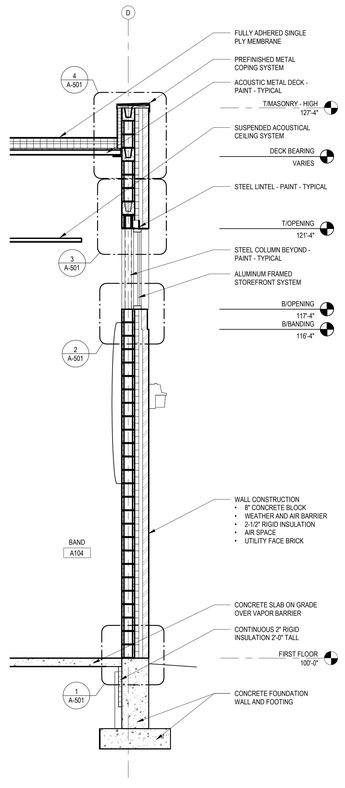
9 WALL SECTION
3/8" = 1'-0"
A-101A



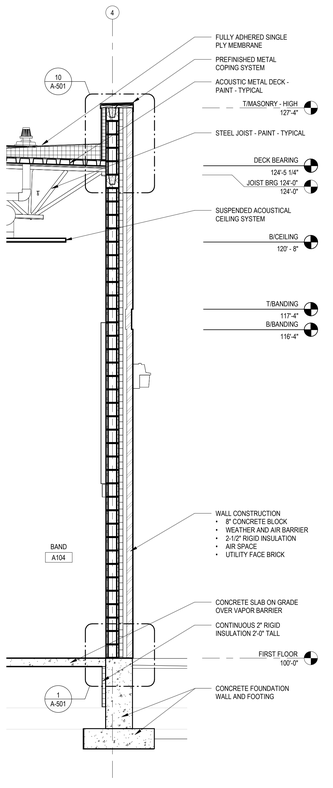
7 WALL SECTION
3/8" = 1'-0"
A-101A



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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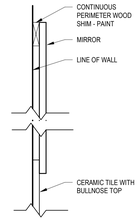
WALL SECTIONS

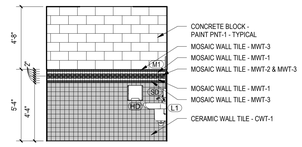
A-311
BIDDING

ABBREVIATIONS

DF	DRINKING FOUNTAIN WITH BOTTLE FILLER - ADA ACCESSIBLE
FD	FLOOR DRAIN
GB1	GRAB BAR 36"
GB2	GRAB BAR 42"
GB3	GRAB BAR 18"
HD	ELECTRIC HAND DRYER
M1	24" X 36" MIRROR
L1	LAVATORY - ADA ACCESSIBLE
SD	SOAP DISPENSER
SN	SANITARY NAPKIN DISPOSAL
TP	TOILET PAPER DISPENSER
WC1	WATER CLOSET - ADA ACCESSIBLE

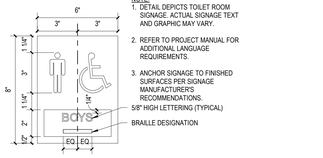


8 MIRROR DETAIL
3" = 1'-0"

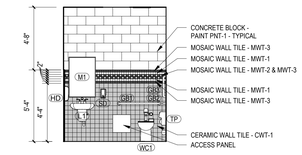


4 INTERIOR TOILET ELEVATION - SOUTH
1/4" = 1'-0"

A-401

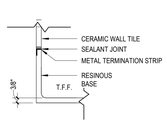


7 TYPICAL TOILET ROOM SIGNAGE
3" = 1'-0"

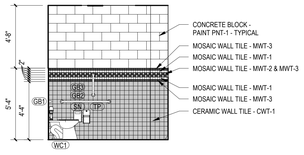


3 INTERIOR TOILET ELEVATION - WEST
1/4" = 1'-0"

A-401

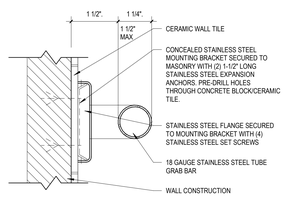


6 INTEGRAL RESINOUS WALL BASE WITH CERAMIC TILE
3" = 1'-0"

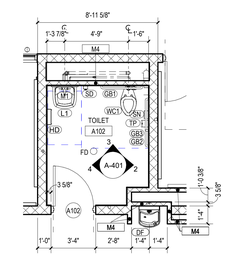


2 IINTERIOR TOILET ELEVATION - NORTH
1/4" = 1'-0"

A-401



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



1 ENLARGED PLAN - TOILET A102
1/4" = 1'-0"

A-101A

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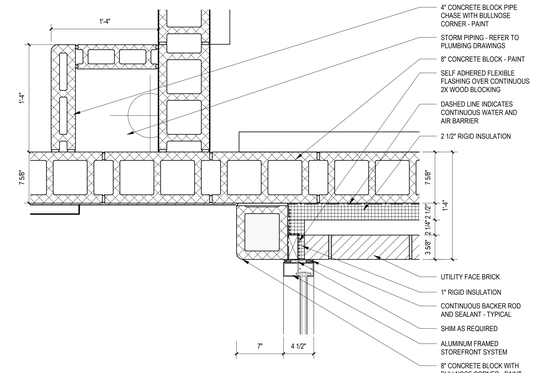
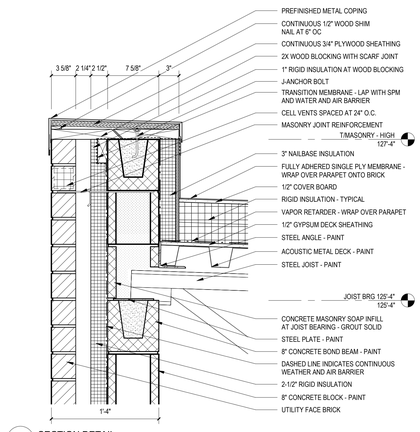
ENLARGED TOILET ROOM PLANS, ELEVATIONS & DETAILS

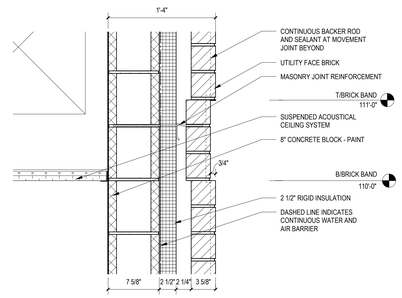
A-401
BIDDING



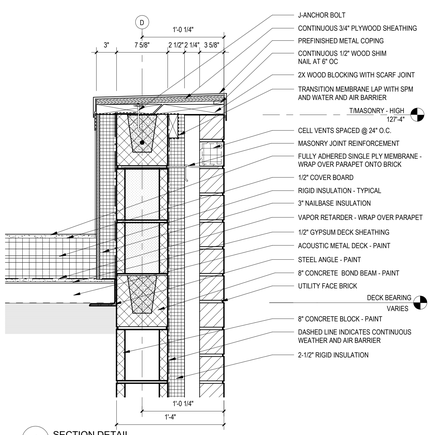
17 PLAN DETAIL
1 1/2" = 1'-0" A-101A



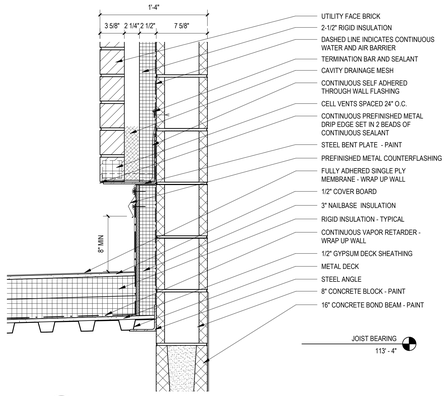
12 SECTION DETAIL
1 1/2" = 1'-0" A-311



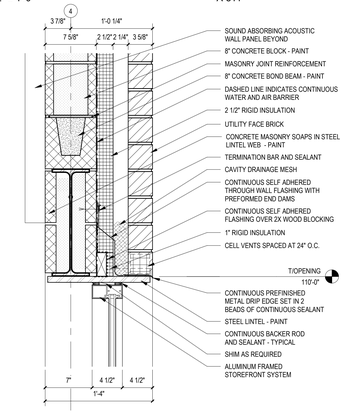
8 SECTION DETAIL
1 1/2" = 1'-0" A-311



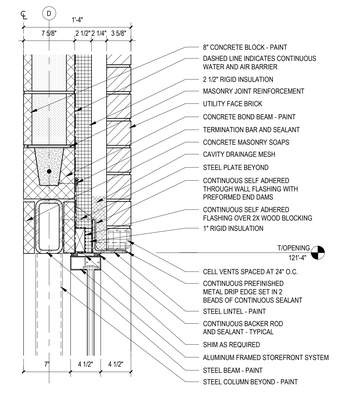
4 SECTION DETAIL
1 1/2" = 1'-0" A-311



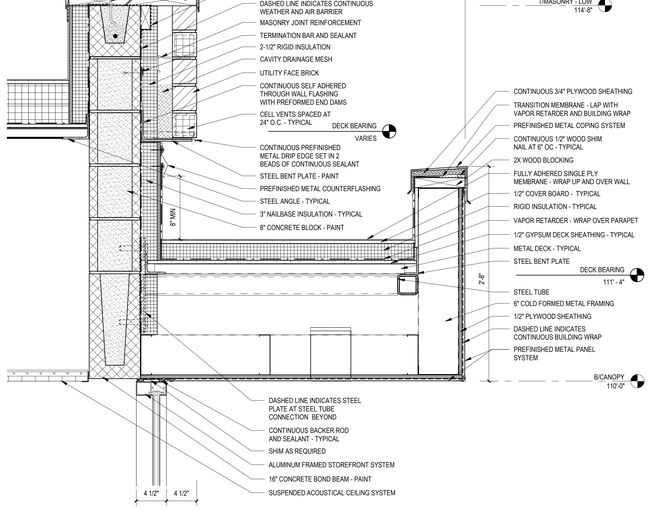
11 SECTION DETAIL
1 1/2" = 1'-0" A-311



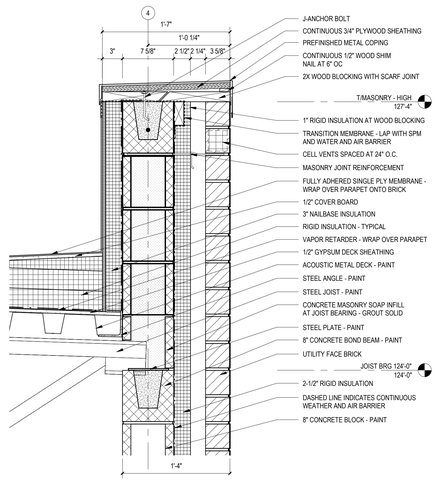
7 SECTION DETAIL
1 1/2" = 1'-0" A-311



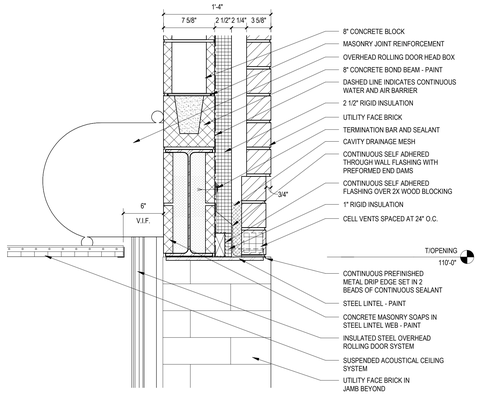
3 SECTION DETAIL
1 1/2" = 1'-0" A-311



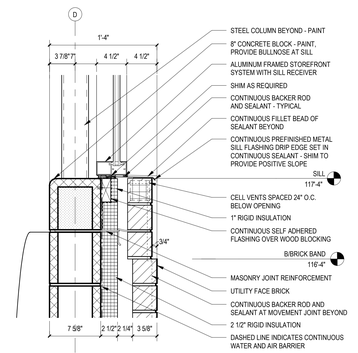
15 SECTION DETAIL
1 1/2" = 1'-0" A-311



10 SECTION DETAIL
1 1/2" = 1'-0" A-311

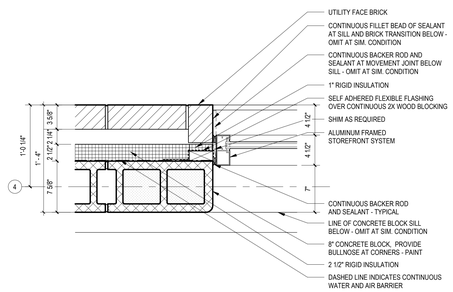


6 SECTION DETAIL
1 1/2" = 1'-0" A-311

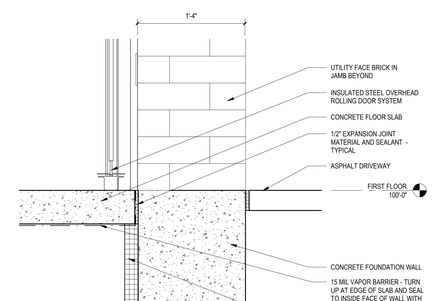


2 SECTION DETAIL
1 1/2" = 1'-0" A-311

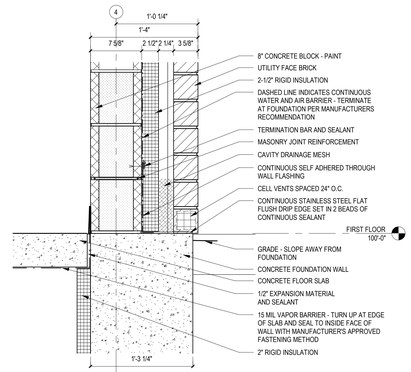
14 SECTION DETAIL
1 1/2" = 1'-0" A-311



9 PLAN DETAIL
1 1/2" = 1'-0" A-101A



5 SECTION DETAIL
1 1/2" = 1'-0" A-311



1 SECTION DETAIL
1 1/2" = 1'-0" A-311

LEGAT ARCHITECTS
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REVISIONS

NO.	DESCRIPTION	DATE

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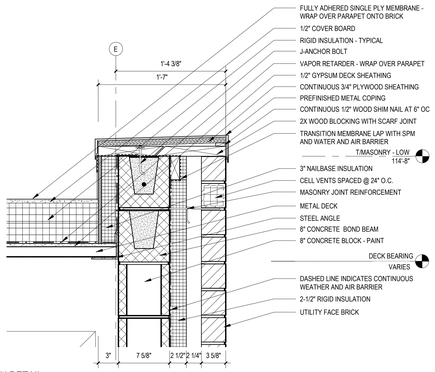
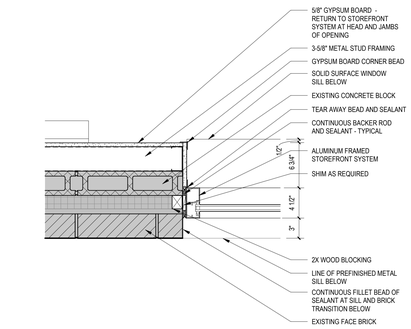
CHECKED BY	JS

EXTERIOR DETAILS

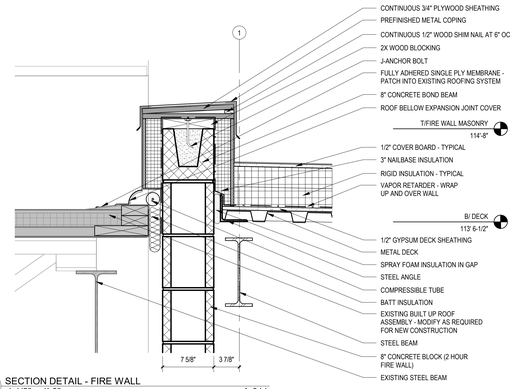
A-501
BIDDING



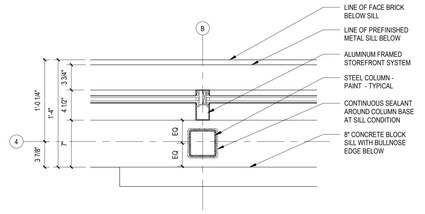
15 SECTION DETAIL
1 1/2" = 1'-0" A-311



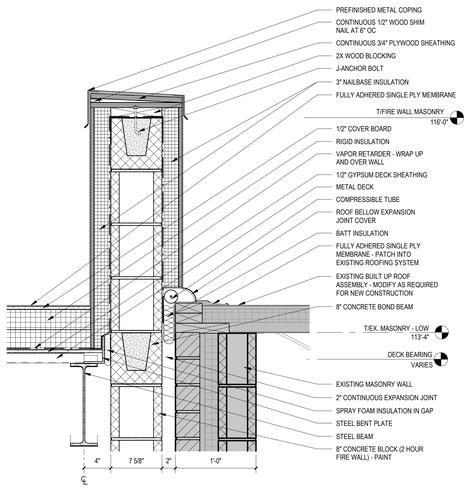
12 PLAN DETAIL
1 1/2" = 1'-0" A-101B



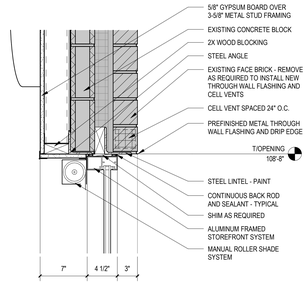
8 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311



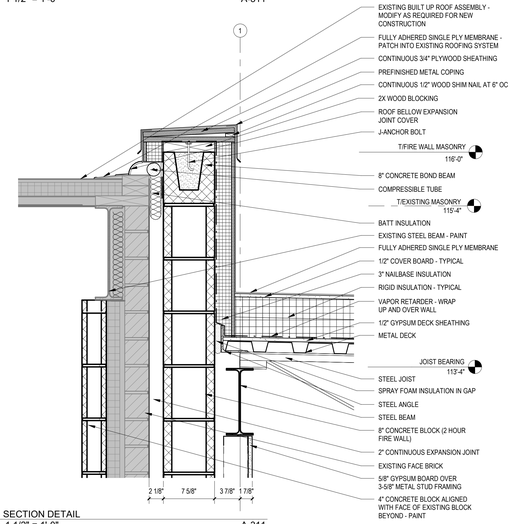
4 PLAN DETAIL
1 1/2" = 1'-0" A-101A



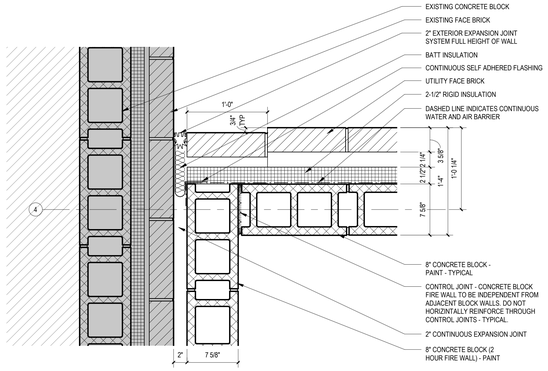
14 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311



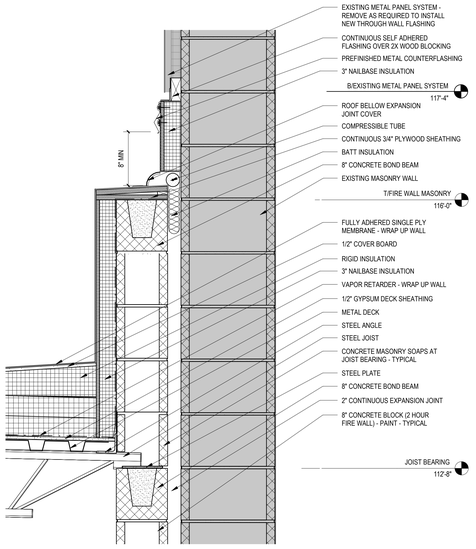
11 SECTION DETAIL
1 1/2" = 1'-0" A-311



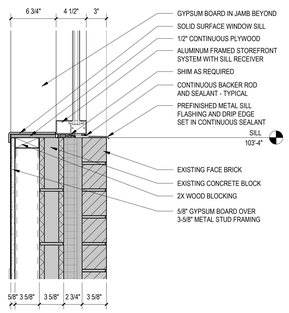
7 SECTION DETAIL
1 1/2" = 1'-0" A-311



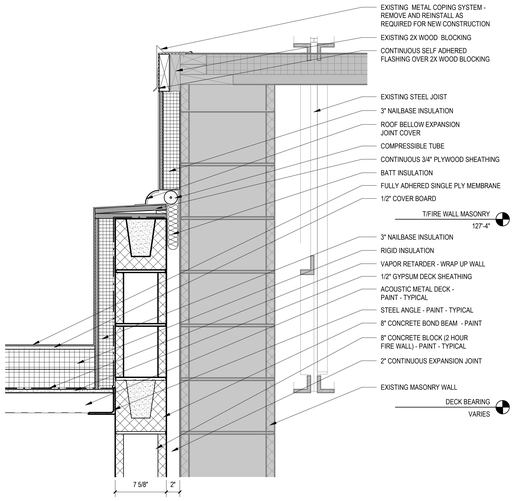
3 PLAN DETAIL - FIRE WALL
1 1/2" = 1'-0" A-101A



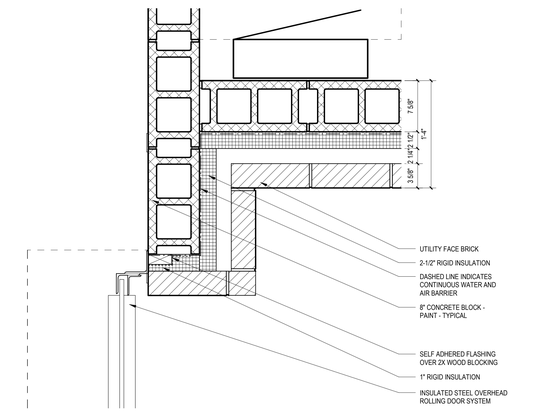
13 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" AR101A



10 SECTION DETAIL
1 1/2" = 1'-0" A-311

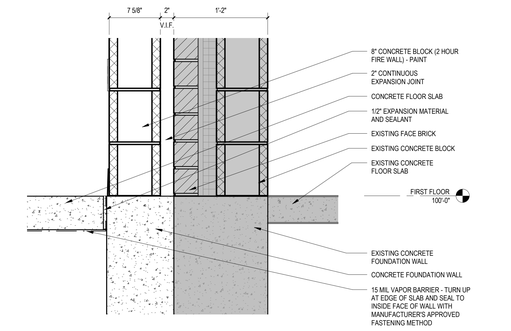


6 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311

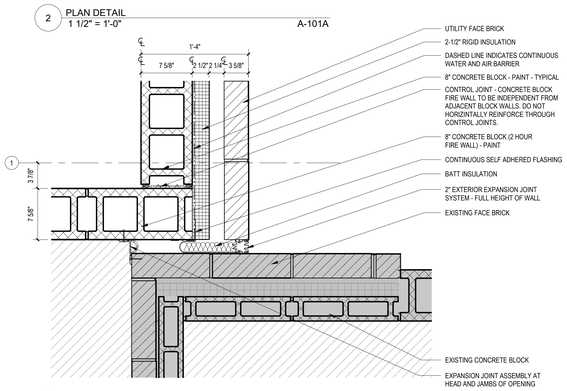


2 PLAN DETAIL
1 1/2" = 1'-0" A-101A

9 SECTION DETAIL
1 1/2" = 1'-0" A-311



5 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311



1 PLAN DETAIL - FIRE WALL
1 1/2" = 1'-0" A-101A

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EXTERIOR DETAILS

A-502
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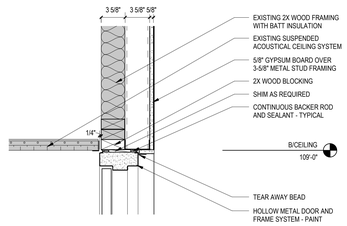
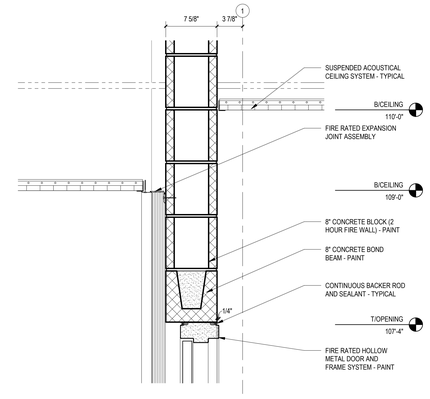
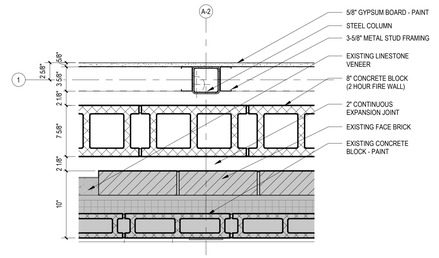


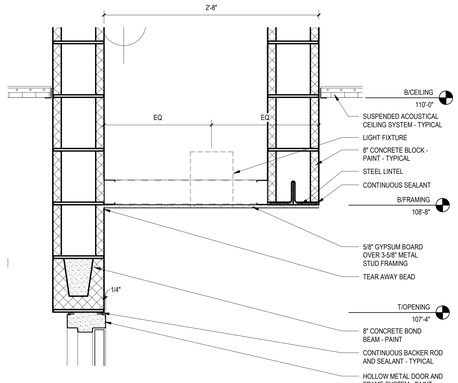
12 SECTION DETAIL
1 1/2" = 1'-0" A-212



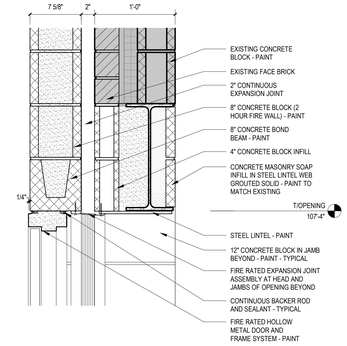
8 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311



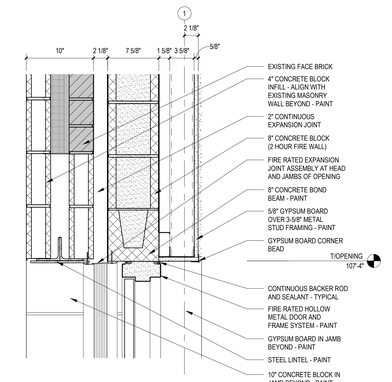
4 PLAN DETAIL
1 1/2" = 1'-0" A-101A



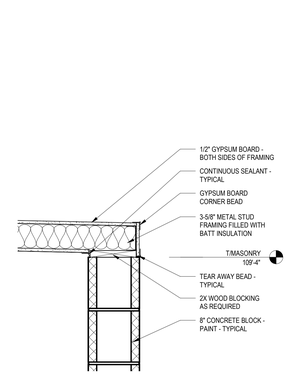
11 SECTION DETAIL
1 1/2" = 1'-0" AC101A



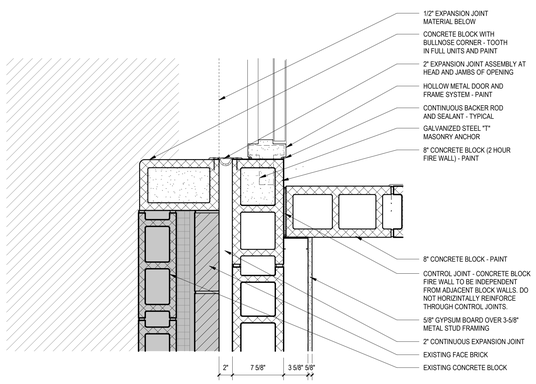
7 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311



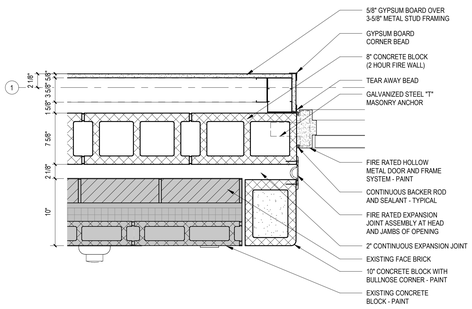
3 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311



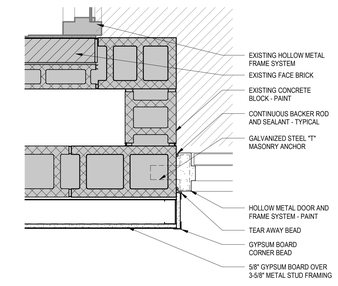
10 SECTION DETAIL
1 1/2" = 1'-0" AC101A



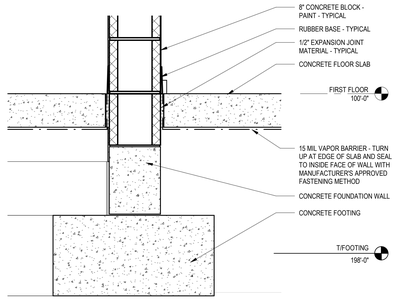
6 PLAN DETAIL
1 1/2" = 1'-0" A-101A



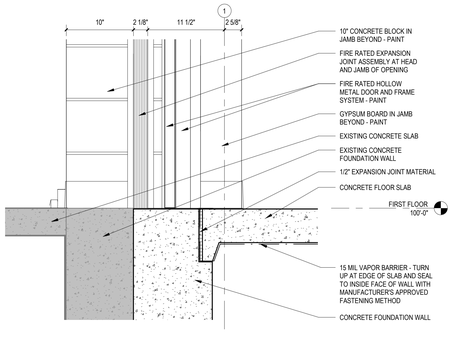
2 PLAN DETAIL
1 1/2" = 1'-0" A-101A



9 PLAN DETAIL
1 1/2" = 1'-0" A-101B



5 SECTION DETAIL
1 1/2" = 1'-0" A-311



1 SECTION DETAIL - FIRE WALL
1 1/2" = 1'-0" A-311

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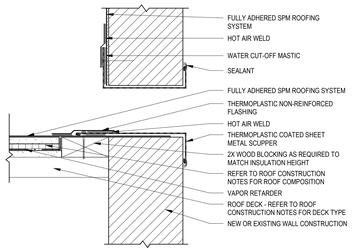
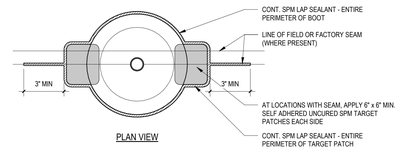
INTERIOR DETAILS

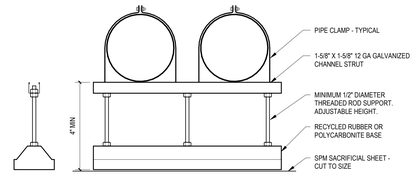
A-511
BIDDING



17 THERMOPLASTIC COATED SCUPPER
3" = 1'-0"

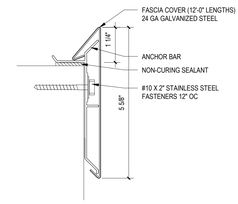


PLAN VIEW

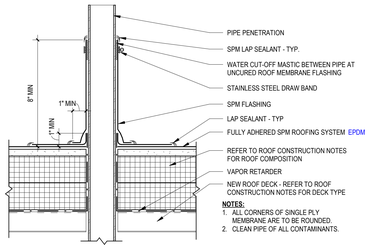


NOTE:
1. PIPE SUPPORTS TO BE SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR GIVEN WEIGHT PER PIPESTAN

10 PIPE SUPPORT > 2" OUTSIDE DIAMETER
1 1/2" = 1'-0"

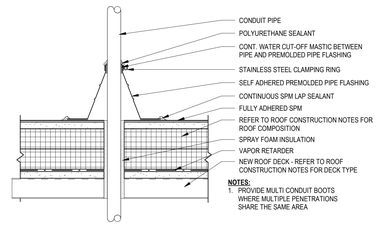


5 PARAPET COPING - PREFAB - METAL ERA
6" = 1'-0"



NOTES:
1. ALL CORNERS OF SINGLE PLY MEMBRANE ARE TO BE ROUNDED.
2. CLEAN PIPE OF ALL CONTAMINANTS.

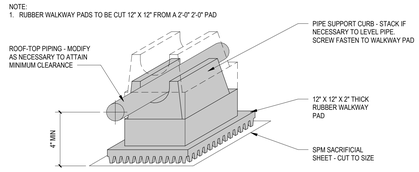
16 COLD PIPE FLASHING - FIELD FAB
3" = 1'-0"



NOTES:
1. PROVIDE MULTI CONDUIT BOOTS WHERE MULTIPLE PENETRATIONS SHARE THE SAME AREA

SECTION VIEW

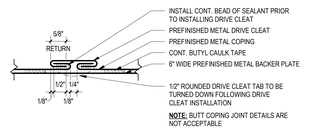
14 CONDUIT PENETRATION DETAIL
3" = 1'-0"



NOTE:
1. RUBBER WALKWAY PADS TO BE CUT 12" X 12" FROM A 2'-0" 2'-0" PAD

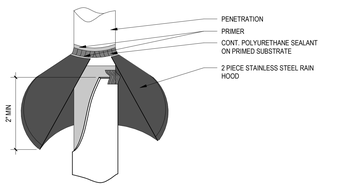
NOTE:
1. PIPE SUPPORTS TO BE SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR GIVEN WEIGHT PER PIPESTAND
2. FOR PIPES NOT EXCEEDING 2' O/D

9 PIPE SUPPORT < 2" OUTSIDE DIAMETER
1 1/2" = 1'-0"

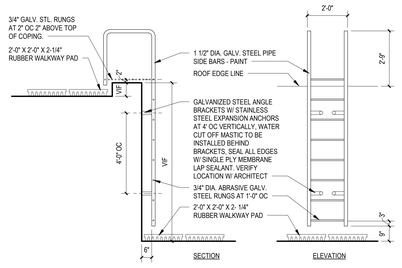


NOTE: BUTT COPING JOINT DETAILS ARE NOT ACCEPTABLE

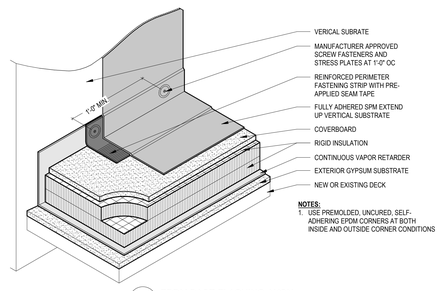
4 HORIZONTAL COPING CLEAT JOINT DETAIL
6" = 1'-0" A-522



15 RAIN HOOD SECTION AXON
3" = 1'-0"

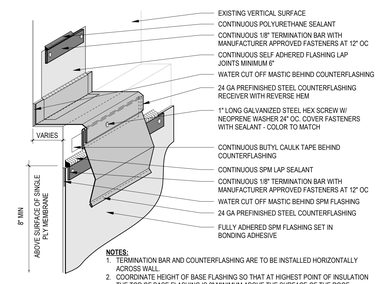


13 ROOF LADDER DETAIL
3/8" = 1'-0"



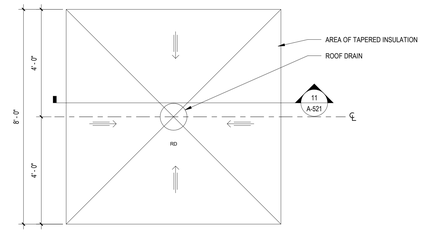
NOTES:
1. USE PREMOLDED, UNCURED, SELF-ADHERING EPDM CORNERS AT BOTH INSIDE AND OUTSIDE CORNER CONDITIONS

8 EPDM BASE FLASHING AXON
1 1/2" = 1'-0"

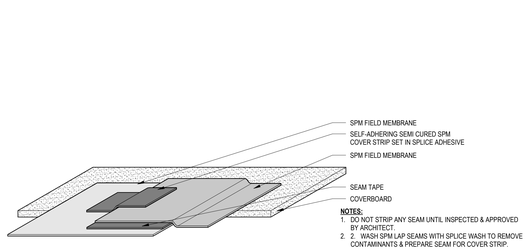


NOTES:
1. TERMINATION BAR AND COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY ACROSS WALL.
2. COORDINATE HEIGHT OF BASE FLASHING SO THAT AT HIGHEST POINT OF INSULATION THE TOP OF BASE FLASHING IS 8" MINIMUM ABOVE THE SURFACE OF THE ROOF MEMBRANE & WITH THE ROOF EDGE TERMINATION AT THE WALL.
3. TERMINATION BAR MUST BE INSTALLED ON SAME DAY AS FLASHING.

3 TERM W/ COUNTERFLASHING SILL AXON
1 1/2" = 1'-0"

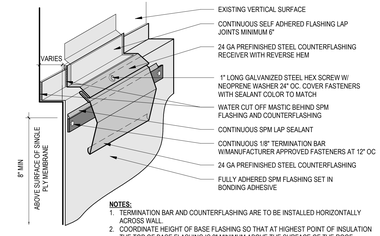


12 ROOF PENETRATION - ROOF DRAIN PAN
1/2" = 1'-0" AR101A



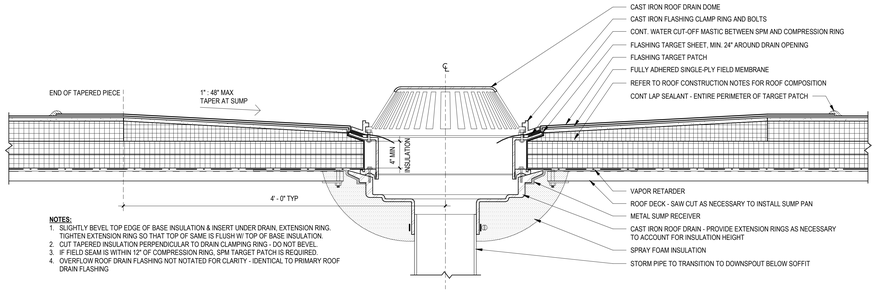
NOTES:
1. DO NOT STRIP ANY SEAM UNTIL INSPECTED & APPROVED BY ARCHITECT
2. 2. WASH SPM LAP SEAMS WITH SPLICE WASH TO REMOVE CONTAMINANTS & PREPARE SEAM FOR COVER STRIP.

7 EPDM LAP SEAM W/ COVER STRIP
1 1/2" = 1'-0"



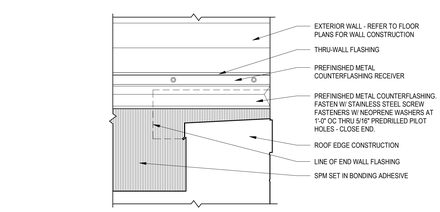
NOTES:
1. TERMINATION BAR AND COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY ACROSS WALL.
2. COORDINATE HEIGHT OF BASE FLASHING SO THAT AT HIGHEST POINT OF INSULATION THE TOP OF BASE FLASHING IS 8" MINIMUM ABOVE THE SURFACE OF THE ROOF MEMBRANE & WITH THE ROOF EDGE TERMINATION AT THE WALL.
3. TERMINATION BAR MUST BE INSTALLED ON SAME DAY AS FLASHING.

2 TERM W/ COUNTERFLASHING SILL AXON
1 1/2" = 1'-0"

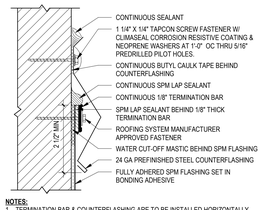


NOTES:
1. SLIGHTLY BEVEL TOP EDGE OF BASE INSULATION & INSERT UNDER DRAIN. EXTENSION RING. TIGHTEN EXTENSION RING SO THAT TOP OF SAME IS FLUSH W/ TOP OF BASE INSULATION.
2. CUT TAPERED INSULATION PERPENDICULAR TO DRAIN CLAMPING RING - DO NOT BEVEL.
3. IF FIELD SEAM IS WITHIN 12" OF COMPRESSION RING, SPM TARGET PATCH IS REQUIRED.
4. OVERFLOW ROOF DRAIN FLASHING NOT NOTATED FOR CLARITY - IDENTICAL TO PRIMARY ROOF DRAIN FLASHING

11 ROOF PENETRATION - ROOF DRAIN
1 1/2" = 1'-0" A-521



6 MECHANICAL TERMINATION W/ THRU WALL COUNTERFLASHING ELEVATION
3" = 1'-0"



NOTES:
1. TERMINATION BAR & COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY ACROSS WALL. COORDINATE HEIGHT OF BASE FLASHING SO THAT AT HIGHEST POINT OF INSULATION THE TOP OF THE BASE FLASHING IS 8" MIN. ABOVE THE SURFACE OF THE SINGLE PLY MEMBRANE.
2. TERMINATION BAR TO BE INSTALLED ATOP SPM BASE FLASHING ON SAME DAY BASE FLASHING IS INSTALLED.

1 TERMINATION W/ COUNTERFLASHING
6" = 1'-0"

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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SIGNATU

DAT

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	KE
CHECKED BY	MS

TYPICAL ROOF DETAILS SINGLE-PLY MEMBRANE

A-521
BIDDING

DOOR AND FRAME SCHEDULE

			DOOR					FRAME				FIRE RATING (MINS)	FRAME DETAILS				
DOOR #	FROM ROOM	TO ROOM	TYPE	MATERIAL	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	DEPTH	HDWR		HEAD	JAMB	JAMB	SILL	REFERENCED NOTES
53	ORCHESTRA	CORRIDOR	N	WD	5'-8"	7'-0"	1 3/4"	DF	HM	5 3/4"			12/A-511	9/A-511	9/A-511	--	4
53.1	ORCHESTRA	CORRIDOR	N	WD	3'-0"	7'-0"	1 3/4"	T	HM	5 3/4"			12/A-511	9/A-511	9/A-511	--	4
53A	ORCHESTRA	OFF	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
53A.1	OFF	ENSEMBLE	F	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
53B	ORCHESTRA	OFF	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	2/A-601	--	
53C	ORCHESTRA	ENSEMBLE	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
53C.1	ENSEMBLE	CORRIDOR	N	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	4
53D	ORCHESTRA	ENSEMBLE	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	2/A-601	--	
53E	ORCHESTRA	STOR	N	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A100	VESTIBULE		FG2	AL	6'-0"	7'-2"	1 3/4"	-	-				15/A-501	17/A-501	13/A-601	14/A-501	1, 2
A100A	CORRIDOR	VESTIBULE	FG2	AL	6'-0"	7'-2"	1 3/4"	-	-				19/A-601	9/A-601	9/A-601	--	2
A101	CORRIDOR		CHRD	ST	8'-0"	10'-0"		FM	AA	0"			6/A-501	2/A-502	2/A-502	5/A-501	6
A101A	CORRIDOR	ELEC	N	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A101B	CORRIDOR	CORRIDOR	N	HM	6'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"		90	7/A-511	1/A-601	6/A-511	1/A-511	5
A101C	CORRIDOR	CORRIDOR	N	HM	6'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"		90	8/A-511	1/A-601	1/A-601	--	5
A102	CORRIDOR	TOILET	F	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A103	AG TECH	CORRIDOR	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"		45	3/A-601	1/A-601	1/A-601	--	
A103A	AG TECH	CLOSET	N	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A103B	AG TECH	CORRIDOR	N	WD	6'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"		45	3/A-601	1/A-601	1/A-601	--	
A103C	AG TECH	WOOD SHOP	N	HM	6'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"		90	3/A-511	2/A-511	2/A-511	1/A-511	4, 5
A104	CORRIDOR	CORRIDOR	N	WD	6'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"		45	11/A-511	1/A-601	1/A-601	--	
A104A	BAND		FG2	AL	6'-0"	7'-2"	1 3/4"	-	-				7/A-501	9/A-501 SIM	9/A-501 SIM	14/A-501	
A105	STORAGE	BAND	N	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A106	OFFICE	CORRIDOR	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A107	CORRIDOR	OFFICE	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A108	CORRIDOR	PRAC	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A109	CORRIDOR	PRAC	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	2/A-601	--	
A110	CORRIDOR	LIB	N	WD	3'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A111	CORRIDOR	PRAC	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A112	PRAC	CORRIDOR	F	WD	3'-0"	7'-2"	1 3/4"	S	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	
A114	STORAGE	WOOD SHOP	N	WD	6'-0"	7'-2"	1 3/4"	DF	HM	5 3/4"			3/A-601	1/A-601	1/A-601	--	

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 SYSTEMS.
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 OPENINGS. GLAZING TYPES FOR EXTERIOR FRAMES ARE INDICATED ON THE FRAME TYPES. GLAZING TYPES FOR INTERIOR FRAMES ARE INDICATED ON THE DOOR AND FRAME SCHEDULE OR HEREIN.
7. ALL OPENINGS IN DOORS REQUIRE GLAZING PANELS UNLESS NOTED OTHERWISE. GLAZING TYPES FOR DOORS ARE INDICATED ON THE DOOR AND FRAME SCHEDULE OR HEREIN.
8. HARDWARE SETS AND GLAZING TYPES ARE SPECIFIED IN THE PROJECT MANUAL.
9. FRAMES SHALL BE DESIGNED, CUT, AND FABRICATED TO MINIMIZE JOINTS:
   A. JOINTS IN HOLLOW METAL FRAMES SHALL RECEIVE METAL FILLER, BE GROUND SMOOTH AND SHOP/FIELD PRIMED PRIOR TO FINISH PAINT.
   B. JOINTS IN EXTERIOR ALUMINUM FRAMES SHALL BE AIR AND WATER TIGHT IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE PROJECT MANUAL. LAP AND SEAL ALL JOINTS. ALLOW FOR EXPANSION IN THE TRIM AND AT JOINTS AND INTERSECTIONS OF ADJACENT FRAMES.

ALUMINUM FRAMING SYSTEMS:

10. ALUMINUM STOREFRONT AND INTERIOR ALUMINUM FRAMES SHALL HAVE THE FOLLOWING CHARACTERISTICS UNLESS NOTED OTHERWISE:
    A. FACE WIDTH: 2"
    B. FRAME DEPTH: 4-1/4"
11. ALUMINUM CURTAIN WALL FRAMES SHALL HAVE THE FOLLOWING CHARACTERISTICS (U.N.O.):
    A. FACE WIDTH: 2-1/2"
    B. FRAME DEPTH: 5-1/2", 7-1/2", 9-1/2"
12. ANCHORAGE AT ALUMINUM STOREFRONT AND WINDOW SYSTEMS:
    A. PROVIDE ANCHORAGE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS TO MEET THE REQUIRED DESIGN LOADS BUT NOT LESS THAN THREE (3) ANCHORS PER JAMB LOCATION.
    B. PROVIDE ALUMINUM FASTENERS, NON-MAGNETIC STAINLESS STEEL FASTENERS, OR OTHER FASTENER TYPES WARRANTED BY THE SYSTEM MANUFACTURER TO BE NON-CORROSIVE, NON-CORRODIBLE, AND COMPATIBLE WITH OTHER BUILDING COMPONENTS.
    C. PROVIDE REINFORCEMENT WHERE FASTENERS ARE SCREWED INTO ALUMINUM COMPONENTS LESS THAN 1/8" THICK.
    D. DO NOT USE EXPOSED FASTENERS AT BUILDING EXTERIOR. AT BUILDING INTERIOR FASTENERS ARE TO MATCH THE FINISH OF THE FRAME.
    E. INTERNALLY REINFORCE MULLIONS AS REQUIRED TO MEET SPANS AS INDICATED IN THE DRAWINGS AND PROJECT MANUAL.
    F. NO EXPOSED FASTENERS.

HOLLOW METAL DOORS AND FRAMES:

13. ALL HOLLOW METAL FRAMES SHALL HAVE THE FOLLOWING CHARACTERISTICS UNO:
    A. FACE WIDTH: 2"
    B. FRAME DEPTH: 5-3/4" UNO
    C. THROAT: 4-7/8"
    D. RETURN: 7/16"
14. ANCHORAGE AT HOLLOW METAL FRAMES:
    A. PROVIDE FASTENERS AT 18" ON CENTER AND MINIMALLY THREE (3) ANCHORS PER JAMB.
    B. AT FRAMES INSTALLED PRIOR TO MASONRY INSTALLATION PROVIDE GALVANIZED STEEL "T" ANCHORS.
    C. AT FRAMES INSTALLED AFTER MASONRY INSTALLATION OR AT EXISTING MASONRY OPENINGS PROVIDE GALVANIZED STEEL SPACER BRACKETS, ANCHOR SLEEVES WELDED TO THE INTERIOR OF THE FRAME, AND COUNTERSUNK 3/8" FLATHEAD EXPANSION ANCHORS. COVER HEAD OF FASTENERS WITH METAL FILLER, GRIND SMOOTH, PRIME AND FINISH PAINT.
    D. AT FRAMES INSTALLED IN STUD PARTITIONS PROVIDE GALVANIZED STEEL Z-TYPE SPACE BRACKETS.
15. JAMBS OF FRAMES INSTALLED IN EXTERIOR WALLS AND WHERE INDICATED SHALL BE GROUTED SOLID. COVER GROUT HOLES WITH METAL FILLER, GRIND SMOOTH, PRIME AND FINISH PAINT.

GLAZING:

16. GLAZING AT INTERIOR DOORS AND FRAMES SHALL BE TYPE I-1 UNO.
17. GLAZING AT FIRE RATED INTERIOR DOORS AND FRAMES SHALL BE TYPE I-2 UNO.

GLAZING TYPES

EXTERIOR:

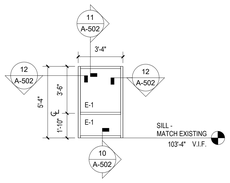
E-1 1" INSULATED CLEAR GLAZING UNIT
E-2 1" INSULATED TINTED GLAZING UNIT

INTERIOR:

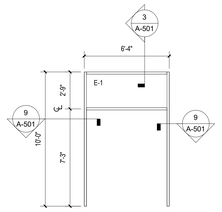
I-1 TEMPERED GLAZING UNIT
I-2 FIRE RATED GLAZING UNIT

REFERENCED NOTES

1. PROVIDE CARD READER SYSTEM.
2. PROVIDE ADA PUSH PAD.
3. PROVIDE PANIC HARDWARE.
4. PROVIDE ACOUSTICAL SOUND SEAL.
5. PROVIDE CONNECTION TO FIRE ALARM SYSTEM.
6. PROVIDE LOCKABLE PLASTIC COVER OVER OPERATION MECHANISM.

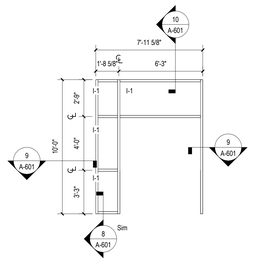


15 ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101B

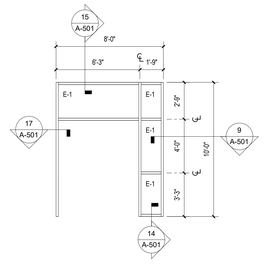


14 ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A

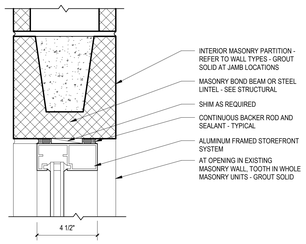
13 ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



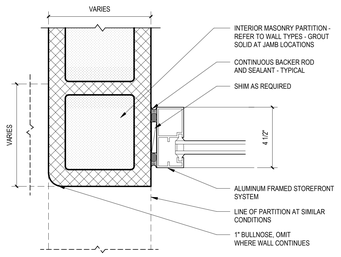
12 INTERIOR ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



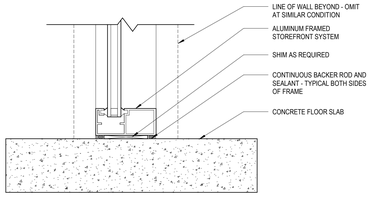
11 ALUMINUM GLAZING ELEVATION
1/4" = 1'-0" A-101A



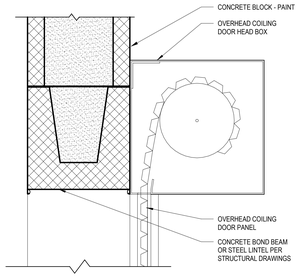
10 TYP. ALUMINUM HEAD DETAIL - MASONRY
3" = 1'-0" A-601



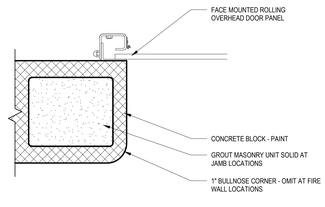
9 TYP. ALUMINUM JAMB DETAIL - MASONRY
3" = 1'-0" A-601



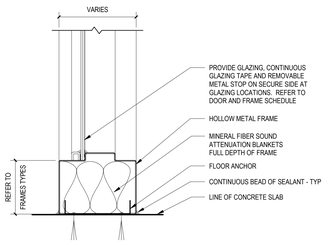
8 ALUM. SILL
3" = 1'-0" A-601



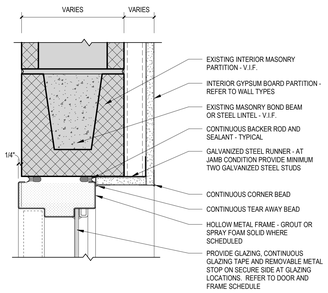
7 OVERHEAD DOOR HEAD DETAIL
3" = 1'-0"



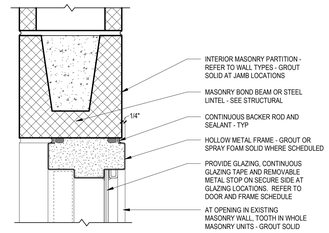
6 OVERHEAD DOOR JAMB DETAIL
3" = 1'-0"



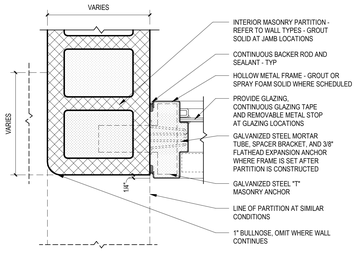
5 HOLLOW METAL DOOR SILL DETAIL
3" = 1'-0"



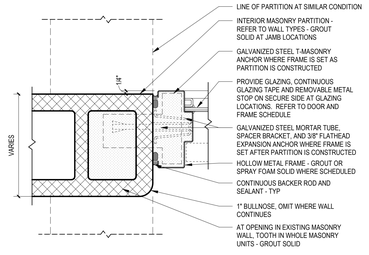
4 TYP. HOLLOW METAL HEAD DETAIL - MASONRY
3" = 1'-0"



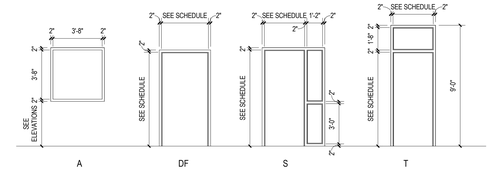
3 TYP. HOLLOW METAL HEAD DETAIL - MASONRY
3" = 1'-0"



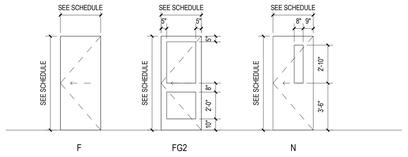
2 TYP. HOLLOW METAL JAMB DETAIL - MASONRY
3" = 1'-0"

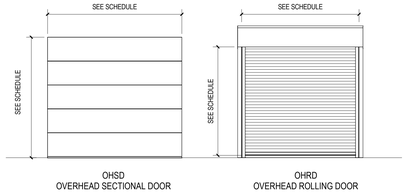


1 TYP. HOLLOW METAL JAMB DETAIL - MASONRY
3" = 1'-0"



FRAME TYPES
1/4" = 1'-0"





DOOR TYPES
1/4" = 1'-0"

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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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DAT

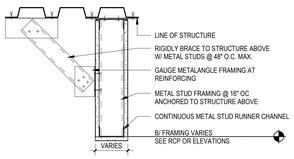
REVISIONS

NO.	DESCRIPTION	DATE

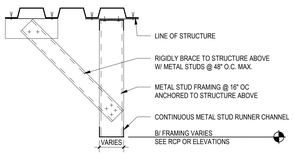
PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	VP
CHECKED BY	JS

DOOR AND FRAME DETAILS

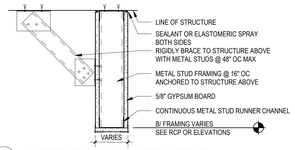
A-601
BIDDING



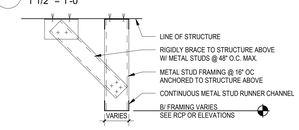
12 KICKER TO METAL DECK W/ GYP BD
1 1/2" = 1'-0"



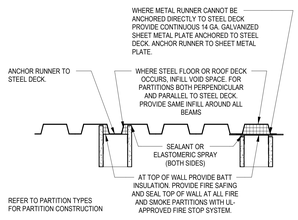
11 KICKER TO METAL DECK
1 1/2" = 1'-0"



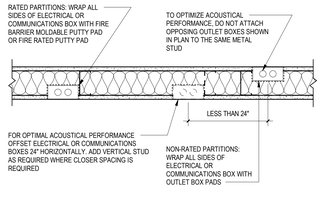
10 KICKER TO FLAT STRUCTURE W/ GYP BD
1 1/2" = 1'-0"



9 KICKER TO FLAT STRUCTURE
1 1/2" = 1'-0"



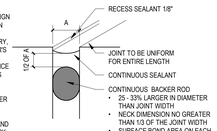
8 STUD TO STEEL DETAIL
1 1/2" = 1'-0"



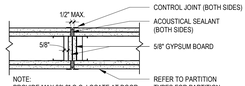
7 PLAN AT ALL ELECTRICAL OR COMMUNICATIONS BOXES
1 1/2" = 1'-0"

INSTALLATION INSTRUCTIONS

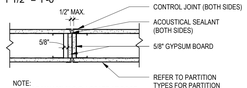
1. REMOVE LOOSE MATERIALS AND FOREIGN MATTER THAT COULD IMPAIR ADHESION OF SEALANT
2. CLEAN, JOINT, AND PRIME AS NECESSARY, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
3. PERFORM PREPARATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ASTM C1193
4. INSTALL BACKER ROD, USE BOND BREAKER BACKING TAPE WHERE BACKER ROD CANNOT BE USED
5. MASK ELEMENTS AND SURFACES ADJACENT TO JOINTS FROM DAMAGE AND DISFIGUREMENT DUE TO SEALANT WORK; BE AWARE THAT SEALANT DRIPS AND SMEARS MAY NOT BE COMPLETELY REMOVABLE
6. PERFORM INSTALLATION PER MANUFACTURERS'S INSTRUCTIONS AND ASTM C1193
7. TOOL SURFACE CONCAVE, UNLESS OTHERWISE INDICATED; REMOVE MASKING MATERIAL IMMEDIATELY AFTER TOOLING SEALANT SURFACE



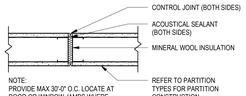
6 BACKER ROD & SEALANT DETAIL
12" = 1'-0"



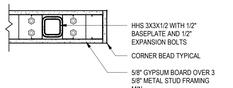
5 WALL CONTROL JOINT (2 HR RATING)
1 1/2" = 1'-0"



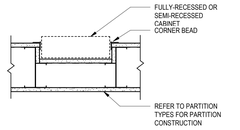
4 WALL CONTROL JOINT (1 HR RATING)
1 1/2" = 1'-0"



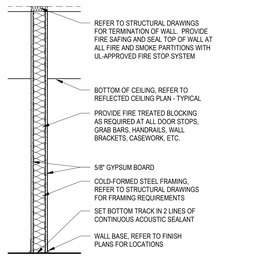
3 WALL CONTROL JOINT (1 HR) - INSULATION
1 1/2" = 1'-0"



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

COLD FORMED STRUCTURAL PARTITION

DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

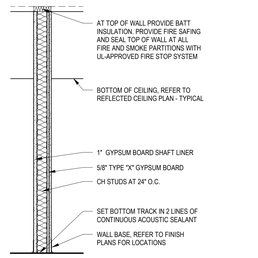
CF # X (#)

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



UL: U489 (1 HR) OR U438 (2 HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: SEE BELOW

SHAFT WALL PARTITION

DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

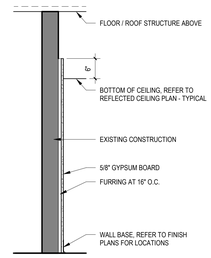
CH # X (#)

FRAMING DEPTH "#"
CH 2 2 1/2" FRAMING DEPTH
CH 4 4" FRAMING DEPTH
CH 6 6" FRAMING DEPTH

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 "(#)"
CH # X (1) 1 HR
CH # X (2) 2 HR

NOTES



UL: N/A

STC: N/A

FURRING PARTITION

DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)

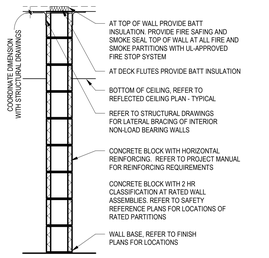
F # X

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.



UL: U905 (2HR); U906 (2HR) 6" AND 8" CMU ONLY; U904 (3HR); U901 (4HR)

STC: SEE BELOW

CMU PARTITION

DENOTES CMU DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S) FURRING OR VENEER APPLICATION

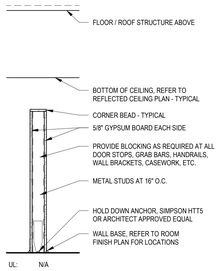
M # X (#)

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 # R2 2-HOUR RATED PARTITION
M # R3 3-HOUR RATED PARTITION
M # R4 4-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 VENNER 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

STUD PARTITION

DENOTES FRAMING DEPTH

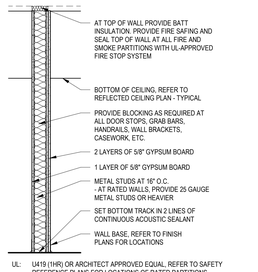
SP #

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.



UL: U419 (1HR) OR ARCHTECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: 44 BASED ON 3-5/8" STUD

STUD PARTITION

DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

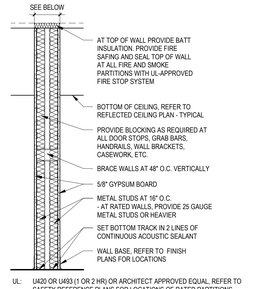
SC # X (#)

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.



UL: U420 OR U493 (1 OR 2 HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: 56

STUD PARTITION

DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

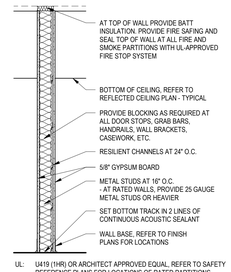
SD # X (#)

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.



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

STUD PARTITION

DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

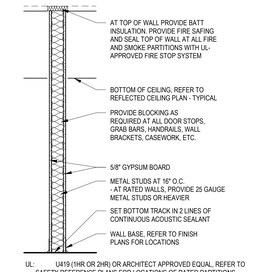
SR # X (#)

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.



UL: U419 (1HR OR 2HR) OR ARCHTECT 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

DENOTES FRAMING DEPTH
LETTER MODIFIER(S) (REFER TO BELOW)
LAYER MODIFIER(S) INDICATES LAYERS OF GYPSUM BOARD

S # X (#)

FRAMING DEPTH "#"
S 0 7/8" HAT CHANNEL FURRING
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

LETTER MODIFIERS "X"
S # FRAMING FULL HEIGHT TO STRUCTURE ABOVE AND GYPSUM BOARD TO 6" 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.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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SIGNATU

DAT

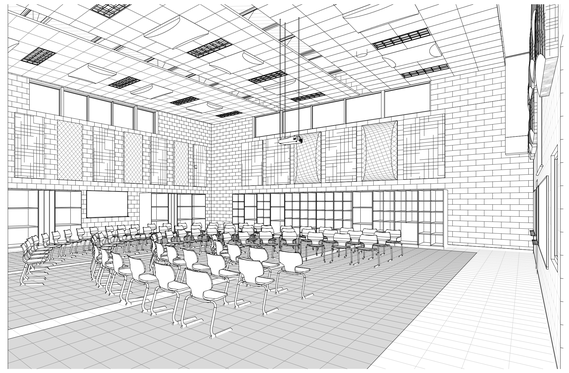
REVISIONS

NO.	DESCRIPTION	DATE

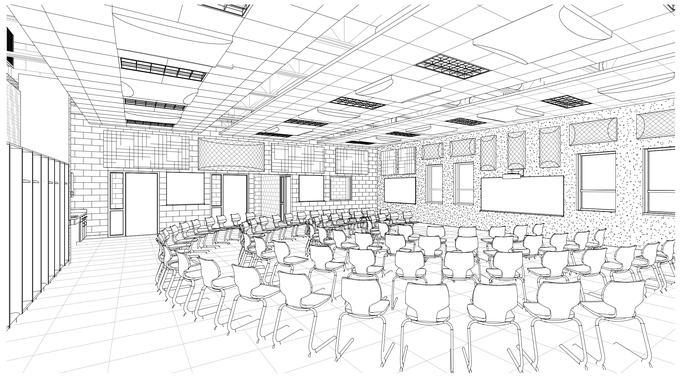
PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	VP
CHECKED BY	JS

PARTITION TYPES & DETAILS

A-611
BIDDING



5 BAND PERSPECTIVE



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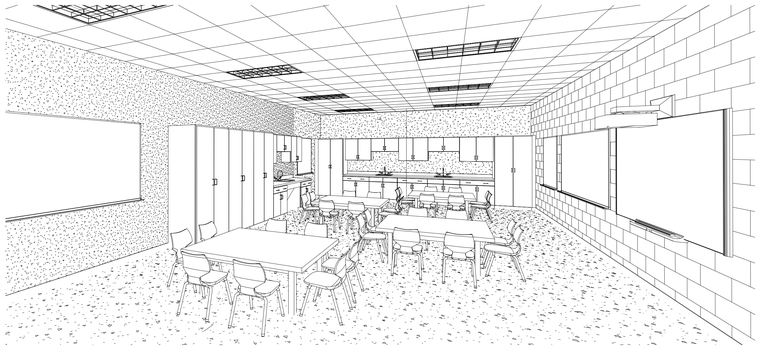

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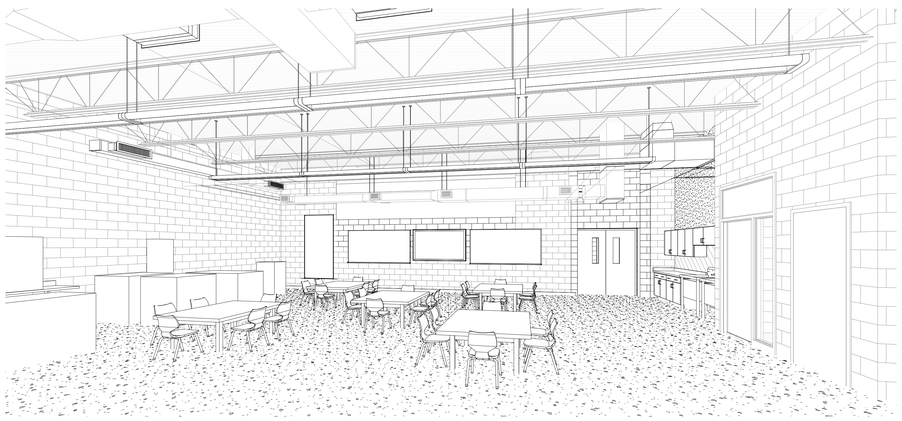
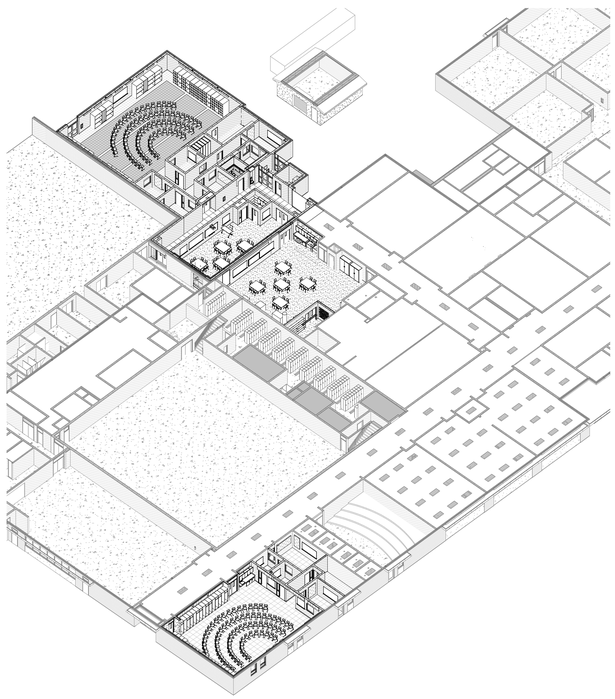


3 WOOD SHOP PERSPECTIVE



1 BUILDING AXON

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REVISIONS

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PROJECT	223049.00
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DRAWN BY	VP
CHECKED BY	JS

PERSPECTIVE VIEWS

A-901
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PIPE MATERIAL SCHEDULE

APPLICATION	LOCATION	SIZE	MATERIAL	JOINING METHOD
SANITARY WASTE/ VENT	BELOW GRADE	ALL	SCHEDULE 40 ABS	SOLVENT
	ABOVE GRADE PLENUM RETURN	ALL ALL	SCHEDULE 40 ABS CAST IRON	SOLVENT HUBLESS
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 E85 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 E85 REQUIREMENT BY CODE.			

PLUMBING EQUIPMENT:

- 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)
- WATER METER
- SEPARATOR/ INTERCEPTOR (SEE SCHEDULE FOR ABBREVIATION)
- RECIRCULATION PUMP
- EXPANSION TANK (ET)
- SUMP PUMP (SP)
- BACK WATER VALVE (BW)

GENERAL NOTES:

1. THE FOLLOWING NOTES APPLY TO THE FULL SET OF PLUMBING DRAWINGS AND SPECIFICATIONS INCLUDING ADDENDA, CHANGE 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 WITH 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 LOCAL CODES. THESE CODES 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 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 PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATTEMENT.
9. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
10. 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 THESE 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 WITH THE BASE BID.

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.

AT CONTRACTOR'S OPTION FIBERGLASS SNAP ON INSULATION WITH FOAM VAPOR BARRIER MAY BE SUBSTITUTED FOR ABOVE.

PIPING TO BE INSULATED ACCORDING TO 2012 ENERGY CONSERVATION CODE. ANY NEW WATER PIPING SHALL BE INSULATED TO A MINIMUM OF R-3.

PLUMBING FITTINGS:

- 45° ELBOW
- CAP
- 90° ELBOW
- ELBOW DOWN
- ELBOW UP
- TEE
- TEE DOWN
- TEE UP
- LATERAL
- UNION
- FLEXIBLE CONNECTION
- PIPE CONTINUATION
- CLEANOUT (CO)
- FLOOR CLEANOUT (FCO)
- WALL CLEANOUT (WCO)
- FLOOR SINK
- XX 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 (IRRG)
- GRW GREY WATER (GRW)
- CA COMPRESSED AIR (CA)
- (CWCITY) CITY COLD WATER (CWCITY))
- CWC COLD WATER DOMESTIC (CW)
- CWR COLD WATER RETURN (CWR)
- SCW SOFT COLD WATER (SCW)
- GW GARAGE WASTE (GW)
- HW 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 TAGS:

- PLUMBING EQUIPMENT TAG (MARK / NUMBER)
- RISER TAG (RISER X / NUMBER)
- PIPE DIMENSION TAG (PIPE SIZE / SYSTEM ABBREVIATION)
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION
- REFERENCE TAG (VIEW NUMBER REFERENCE / SHEET NUMBER)

GENERAL:

- DRAWING KEYNOTE SYMBOL
- BUILDING SECTION (DETAIL NUMBER / SHEET NUMBER)
- BUILDING ELEVATION (DETAIL NUMBER / SHEET NUMBER)
- CALLOUT BOUNDARY (DETAIL NUMBER / SHEET NUMBER)
- VIEW REFERENCE CALLOUT (DETAIL NUMBER / SHEET NUMBER)
- +X' - X" MOUNTING HEIGHT DESIGNATION

PLUMBING ABBREVIATIONS:

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BP	BOOSTER PUMP
BTU	BRITISH THERMAL UNIT
BTUH	BTU(S) PER HOUR
BV	BALANCING VALVE
CO	CLEANOUT
CO2	CARBON DIOXIDE
CPVC	CHLORINATED PVC
CW	COLD WATER
CWR	COLD WATER RETURN
CWFU	COLD WATER FIXTURE UNITS
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DS	DOWNSPOUT
DW	DISH WASHER
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EVAC	WASTE ANESTHETIC GAS DISPOSAL
EW	EMERGENCY EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FRS	FLUSHING RIM SINK
FS	FLOOR SINK
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HS	HAND SINK
HW	HOT WATER
HWR	HOT WATER RETURN
HWFU	HOT WATER FIXTURE UNITS
IWP	INDIRECT WASTE PIPE
KS	KITCHEN SINK
KW	KILOWATT
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
RPM	REVOLUTIONS PER MINUTE
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
VTR	VENT THROUGH ROOF
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 FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AVG	AVERAGE
BFG	BELOW FINAL GRADE
BLDG	BUILDING
C.G.	CEILING
DEG-F, °F	DEGREES FAHRENHEIT
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
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
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
RM	ROOM
RQD	REQUIRED
SF	SQUARE FEET
SPEC	SPECIFICATION(S)
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

RENOVATION LEGEND:

<X>	EXISTING TO REMAIN
<XRL>	EXISTING TO BE RELOCATED
<XD>	EXISTING TO BE REMOVED
<XNL>	EXISTING IN NEW LOCATION
<N>	NEW

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CHECKED BY	MJB

PLUMBING LEGEND

P-000
BIDDING

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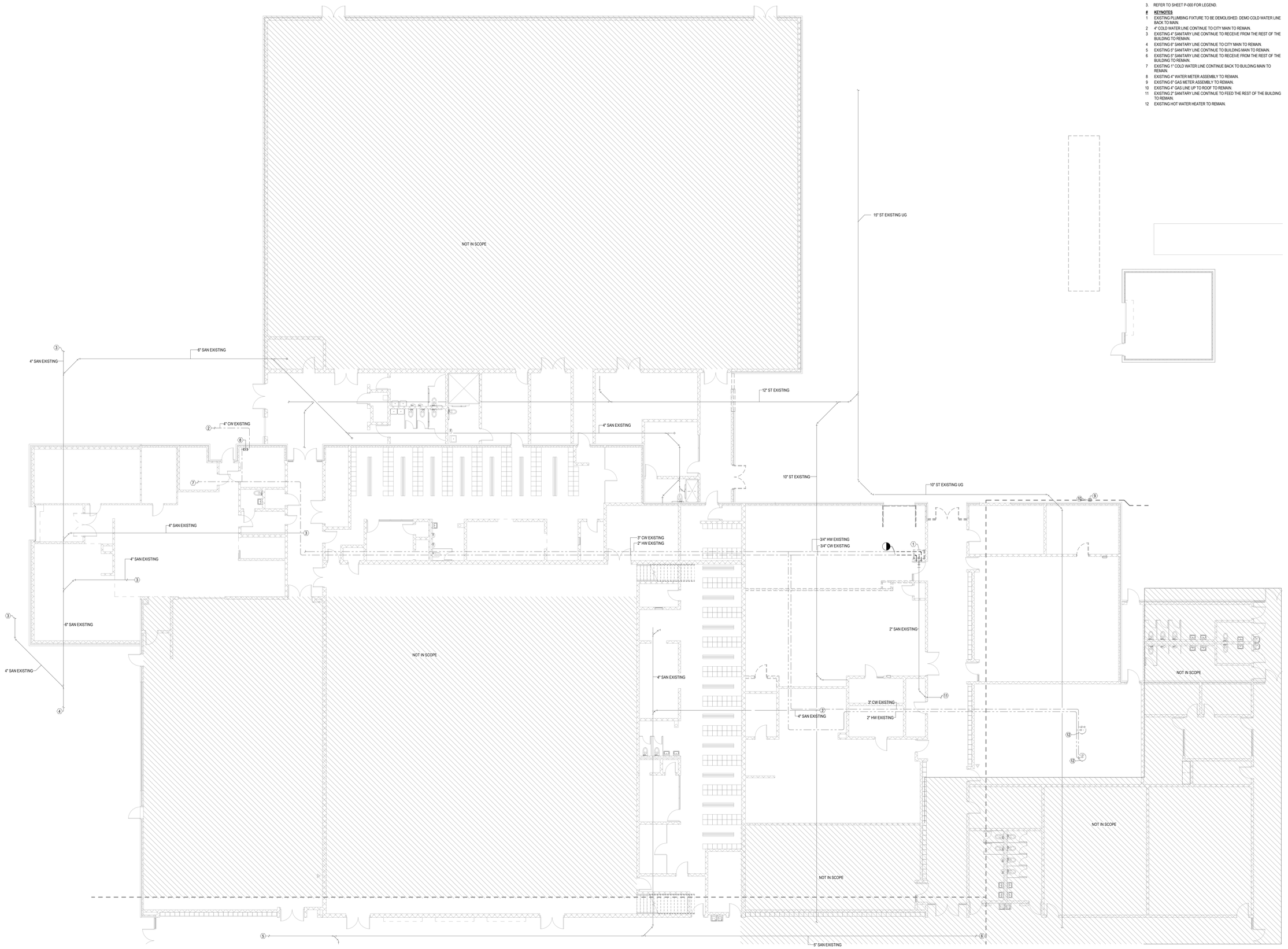
2. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND.

 # KEYNOTES

1 EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. DEMO COLD WATER LINE BACK TO MAIN.
2 4" COLD WATER LINE CONTINUE TO CITY MAIN TO REMAIN.
3 EXISTING 4" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
4 EXISTING 6" SANITARY LINE CONTINUE TO CITY MAIN TO REMAIN.
5 EXISTING 5" SANITARY LINE CONTINUE TO BUILDING MAIN TO REMAIN.
6 EXISTING 5" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
7 EXISTING 1" COLD WATER LINE CONTINUE BACK TO BUILDING MAIN TO REMAIN.
8 EXISTING 4" WATER METER ASSEMBLY TO REMAIN.
9 EXISTING 6" GAS METER ASSEMBLY TO REMAIN.
10 EXISTING 4" GAS LINE UP TO ROOF TO REMAIN.
11 EXISTING 2" SANITARY LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
12 EXISTING HOT WATER HEATER TO REMAIN.



1 PD101A — PLUMBING FIRST FLOOR DEMOLITION PLAN - MODULE A
1/8" = 1'-0"

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PLUMBING FIRST FLOOR DEMOLITION PLAN - MODULE A

PD101A
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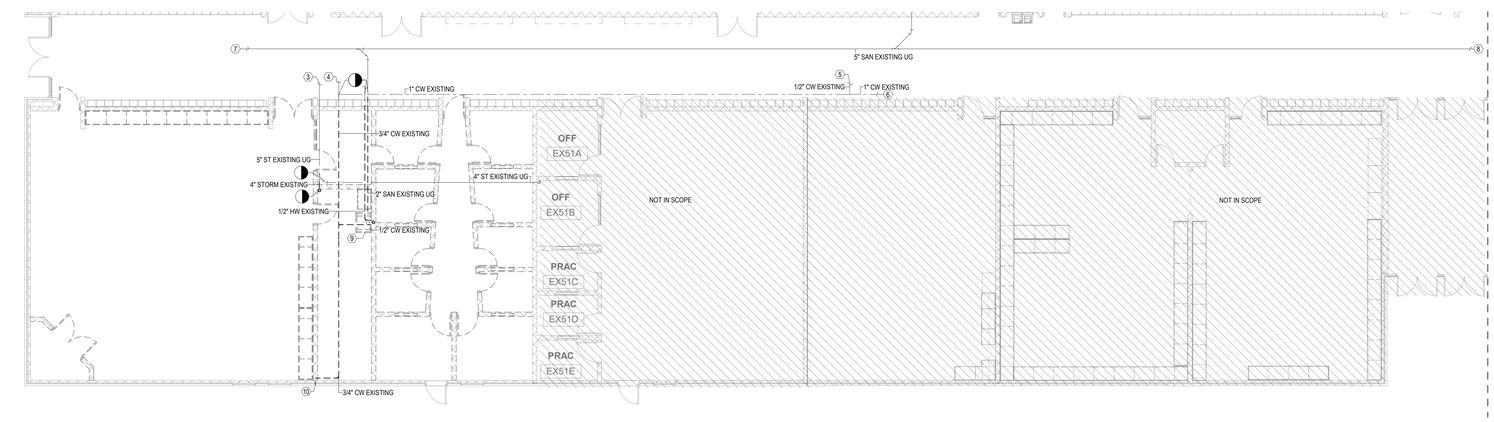
2. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND.

 # KEYNOTES

1 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE SHEET M-400 FOR MORE INFORMATION.
2 EXISTING 1-1/2" VENT PIPE THROUGH ROOF TO REMAIN.
3 EXISTING 5" STORM LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
4 EXISTING 3/4" CW, 1/2" HW, AND 2" SANITARY LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
5 EXISTING 1/2" COLD WATER LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
6 EXISTING 1" COLD WATER LINE CONTINUE BACK TO BUILDING MAIN TO REMAIN.
7 EXISTING 5" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
8 EXISTING 5" SANITARY LINE CONTINUE TO BUILDING MAIN TO REMAIN.
9 EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. DEMO CW, HW, SANITARY, AND VENT LINES BACK TO MAIN.
10 EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. DEMO COLD WATER LINE BACK TO MAIN.
11 EXISTING 4" STORM DRAIN TO REMAIN.
12 EXISTING GAS LINE TO CONTINUE TO FEED REST OF BUILDING TO REMAIN.

2 PD101B PLUMBING ROOF DEMOLITION PLAN - MODULE B
1/8" = 1'-0"



1 PD101B PLUMBING FIRST FLOOR DEMOLITION PLAN - MODULE B
1/8" = 1'-0"

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PLUMBING DEMOLITION PLANS - MODULE B

PD101B
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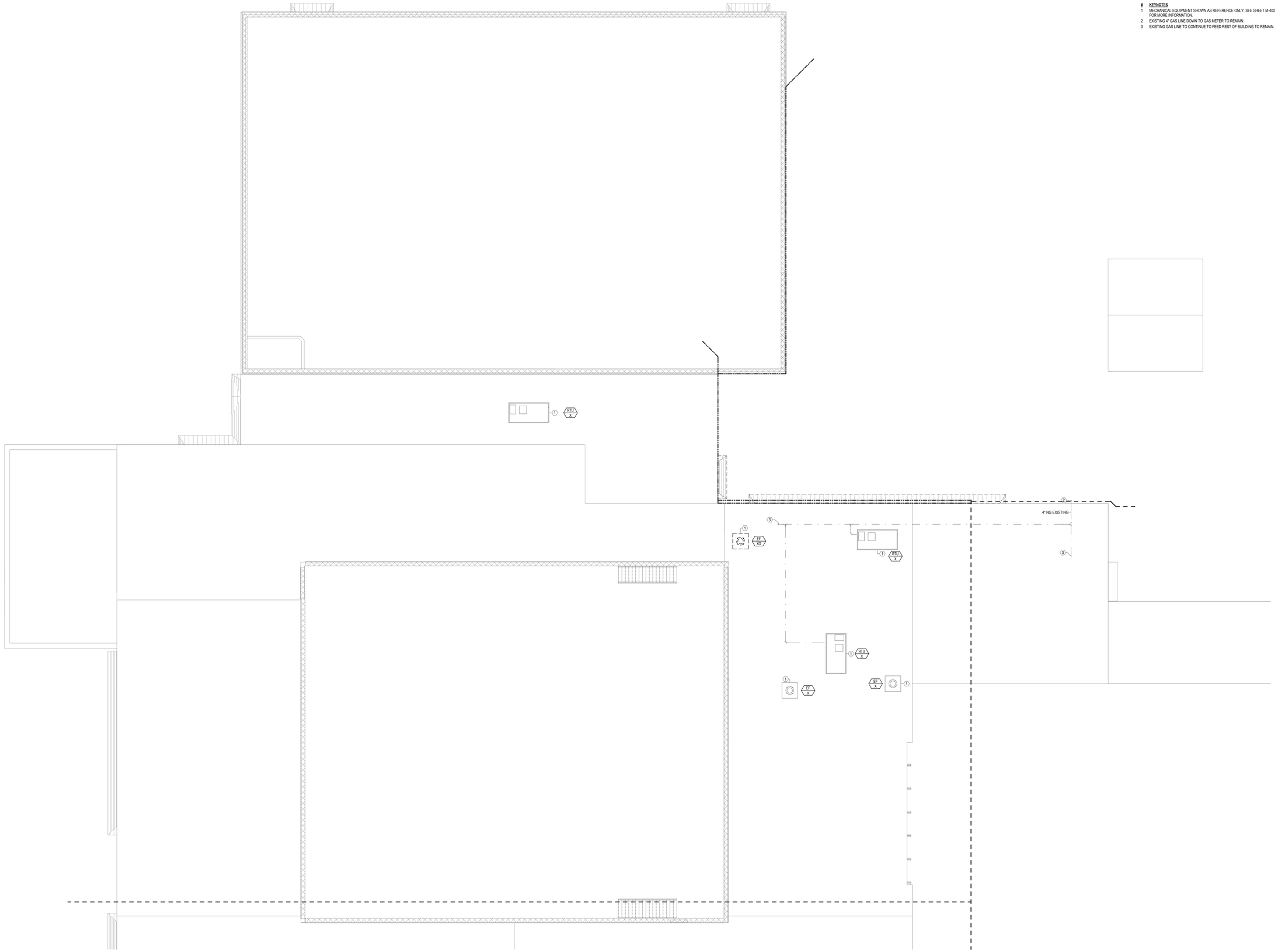
 # KEYNOTES

1 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE SHEET M-400 FOR MORE INFORMATION.
2 EXISTING 4" GAS LINE DOWN TO GAS METER TO REMAIN.
3 EXISTING GAS LINE TO CONTINUE TO FEED REST OF BUILDING TO REMAIN.



1 PD102A — PLUMBING ROOF DEMOLITION PLAN - MODULE A
1/8" = 1'-0"

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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CHECKED BY	MJB

PLUMBING ROOF DEMOLITION PLAN - MODULE A

PD102A
BIDDING

GENERAL NOTES:

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2. ALL PLUMBING SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
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.

 # KEYNOTES

1 NEW 3/4" COLD WATER LINE UP TO ROOF HYDRANT ON ROOF. SEE SHEET P-202A FOR MORE INFORMATION.
2 PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
3 4" COLD WATER LINE CONTINUE TO CITY MAIN TO REMAIN.
4 1" COLD WATER LINE CONTINUE TO FEED TO REST OF THE BUILDING TO REMAIN.
5 EXISTING 2" HOT WATER LINE CONTINUE BACK TO WATER HEATER TO REMAIN.
6 1" COLD WATER LINE TO CONTINUE UNDER GROUND TO STUB UP TO FUTURE GREENHOUSE WITH FROST PROOF YARD HYDRANT. COORDINATE EXACT LOCATION WITH ARCHITECT.
7 1" DOMESTIC WATER SHUT OFF VALVE. IN ORDER TO WINTERIZE FUTURE GREEN HOUSE: STEP 1 CLOSE SHUT OFF VALVE TO "OF" POSITION . STEP 2 GO TO YARD HYDRANT AND ENGAGE FIXTURE IN ORDER TO BLEED LINES.
8 BALANCING VALVE TO BE INSTALLED ON HOT WATER RETURN LINE PRIOR TO CONNECTION TO HOT WATER LINE.
9 EXISTING HOT WATER HEATER TO REMAIN.

NOT IN SCOPE

BAND A104
OFFICE A106
OFFICE A107
LIB A110
STORAGE A105
CORRIDOR A104A
PRAC A108
PRAC A109
PRAC A111
PRAC A112
VESTIBULE A100
TOILET A102
ELEC A101A
IDF xE-261
COACHES xE-262
CORRIDOR B101
AG TECH A103
STOR xE-267
TOILET B102
GYM STORAGE xE-263
LOCKERS xE-266
WOOD SHOP A113

3/4" CW UG
1" CW
3/4" CW
3/4" HW
1 1/4" CW
WC-1
3/4" HW
1 1/4" CW
EDF-1
3/4" HWR
1 1/4" CW
3/4" HW
S-3
S-1
3/4" HWR
1 1/2" CW
1" HW
3/4" HW EXISTING
3/4" CW EXISTING
S-2
3/4" HW
3/4" CW
2" HW EXISTING
3" CW EXISTING
4" CW EXISTING
1" CW EXISTING
3" CW EXISTING
2" HW EXISTING
3" CW EXISTING
2" HW EXISTING
3/4" HWR
RCP 1
3/4" HWR

1 PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MODULE A
P-101A
1/8" = 1'-0"

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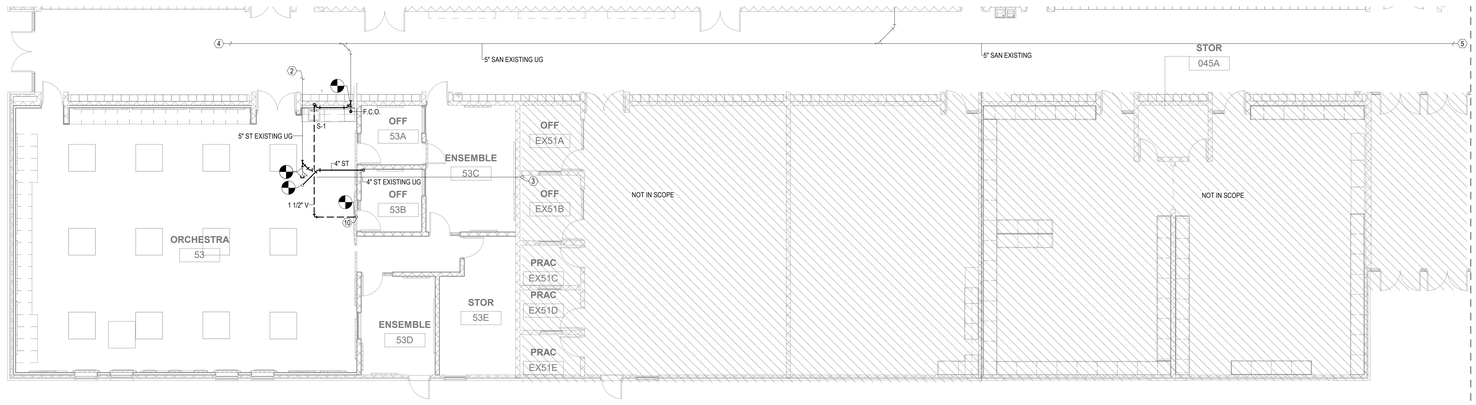
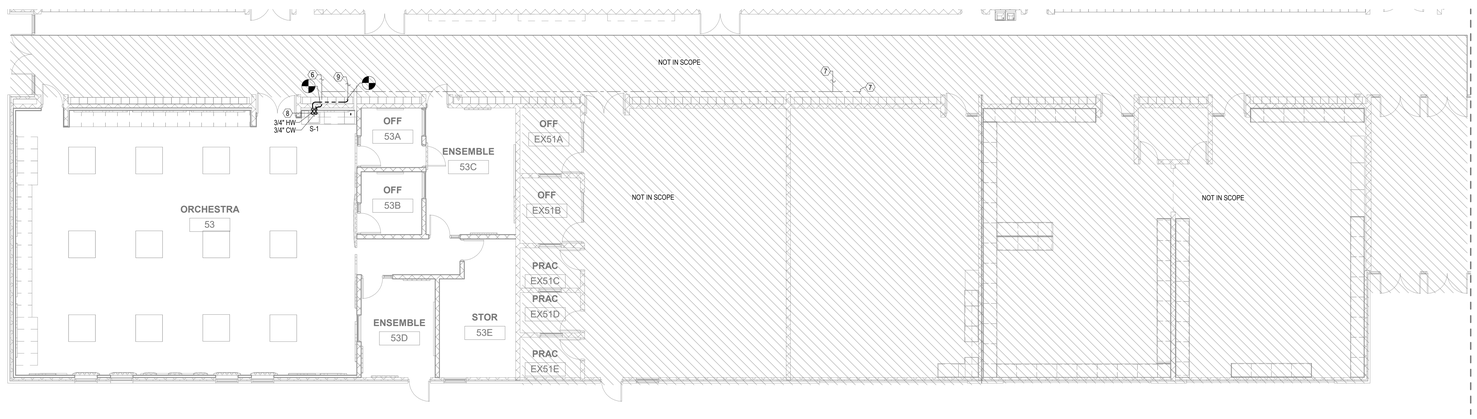
PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MODULE A

P-101A
BIDDING

3 P-101B — PLUMBING ROOF PLAN - MODULE B
1/8" = 1'-0"



2 P-101B — PLUMBING FIRST FLOOR SANITARY AND VENT PLAN - MODULE B
1/8" = 1'-0"



1 P-101B — PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MODULE B
1/8" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DISGRESSION, 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 WHILL AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
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.

 # KEYNOTES

1 MECHANICAL EQUIPMENT SHOWN AS REFERENCE ONLY. SEE SHEET M-400 FOR MORE INFORMATION.
2 EXISTING 5" STORM LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
3 EXISTING 4" STORM DRAIN TO REMAIN.
4 EXISTING 5" SANITARY LINE CONTINUE TO BUILDING MAIN TO REMAIN.
5 EXISTING 5" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
6 1" COLD WATER LINE CONTINUE TO FEED TO REST OF THE BUILDING TO REMAIN.
7 EXISTING 1" COLD WATER LINE CONTINUE BACK TO BUILDING MAIN TO REMAIN.
8 PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
9 EXISTING 3/4" CW, 1/2" HW, AND 2" SANITARY LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
10 EXISTING 1-1/2" VENT PIPE THROUGH ROOF TO REMAIN.
11 EXISTING GAS LINE TO CONTINUE TO FEED REST OF BUILDING TO REMAIN.
12 MECHANICAL UNIT IS ALTERNATIVE BID. IF ALTERNATIVE BID IS ACCEPTED NEW GAS LINE TO BE RAN TO NEW RTU. BASE BID IS LEAVE EXISTING GAS LINE TO REMAIN.

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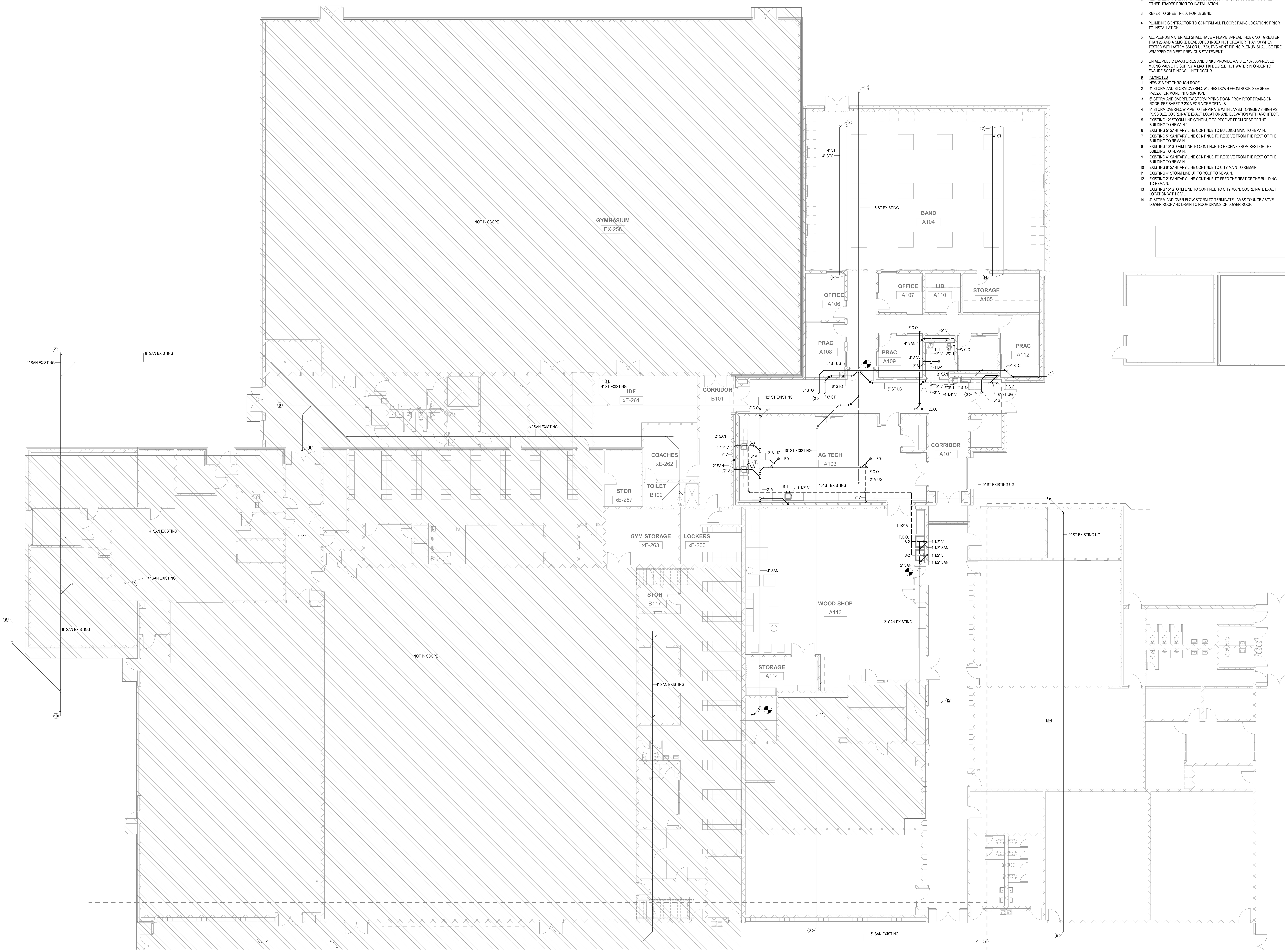
PLUMBING PLANS - MODULE B

P-101B
BIDDING



PLUMBING FIRST FLOOR SANITARY, VENT, AND GAS PLAN - MODULE A

1/8" = 1'-0"

GENERAL NOTES:

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#	KEYNOTES
1	NEW 3" VENT THROUGH ROOF
2	4" STORM AND STORM OVERFLOW LINES DOWN FROM ROOF. SEE SHEET P-202A FOR MORE INFORMATION.
3	6" STORM AND OVERFLOW STORM PIPING DOWN FROM ROOF DRAINS ON ROOF. SEE SHEET P-202A FOR MORE DETAILS.
4	8" STORM OVERFLOW PIPE TO TERMINATE WITH LAMBS TONGUE AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT.
5	EXISTING 12" STORM LINE CONTINUE TO RECEIVE FROM REST OF THE BUILDING TO REMAIN.`
6	EXISTING 5" SANITARY LINE CONTINUE TO BUILDING MAIN TO REMAIN.
7	EXISTING 5" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
8	EXISTING 10" STORM LINE TO CONTINUE TO RECEIVE FROM REST OF THE BUILDING TO REMAIN.
9	EXISTING 4" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
10	EXISTING 6" SANITARY LINE CONTINUE TO CITY MAIN TO REMAIN.
11	EXISTING 4" STORM LINE UP TO ROOF TO REMAIN.
12	EXISTING 2" SANITARY LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
13	EXISTING 15" STORM LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION WITH CIVIL.
14	4" STORM AND OVER FLOW STORM TO TERMINATE LAMBS TOUNGE ABOVE LOWER ROOF AND DRAIN TO ROOF DRAINS ON LOWER ROOF.

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PLUMBING FIRST FLOOR SANITARY & VENT PLAN - MODULE A

P-201A

BIDDING

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4	EXISTING GAS LINE TO CONTINUE TO FEED REST OF BUILDING TO REMAIN.

NOT IN SCOPE

NOT IN SCOPE

NOT IN SCOPE

NOT IN SCOPE

ORD-1 RD-1

ORD-1 RD-1

RTU A15K

1 1/2" NG

RH-1

CAP 10E

3" V

ORD-2 RD-2

ORD-2 RD-2

3" V

EF B10E

RTU X

RTU X

EF X

EF X

RTU X

1 P-202A PLUMBING ROOF PLAN - MODULE A

1/8" = 1'-0"

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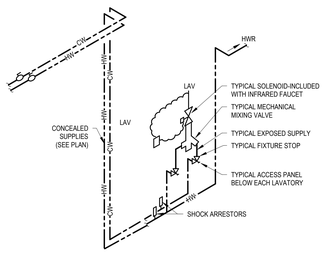
PLUMBING ROOF PLAN - MODULE A

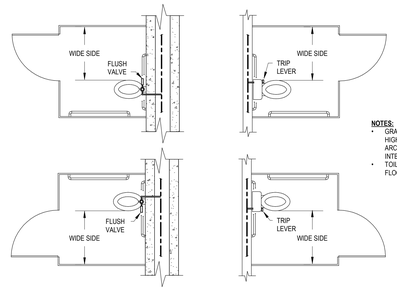
P-202A

BIDDING



1 P-300 LAVATORY TEMPERED WATER SUPPLY

NOT TO SCALE



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.

2 P-300 ADA COMPLYING WATER - CLOSET INSTALLATION

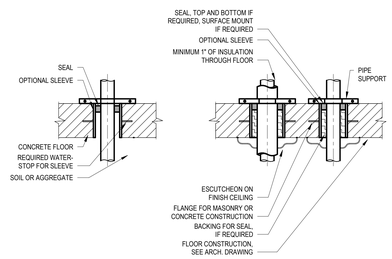
3/8" = 1'-0"

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.

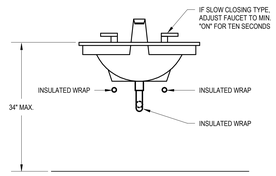
SMOKE BARRIERS AND ALL OTHER PENETRATIONS, PROVIDE SEAL AS INDICATED IN SPEC.

SEE SPEC. FOR CUTTING, PATCHING, PENETRATION SEAL, SLEEVES, EXCAVATION AND BACKFILLING.



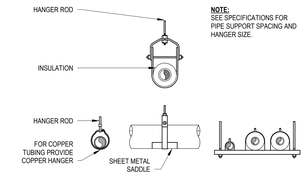
3 P-300 FLOOR PENETRATION

3/4" = 1'-0"



4 P-300 ADA COMPLYING LAVATORY INSTALLATION

NOT TO SCALE



NOTE: SEE SPECIFICATIONS FOR PIPE SUPPORT SPACING AND HANGER SIZE.

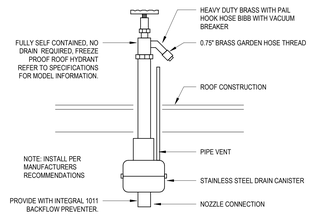
TYPICAL PIPING SUPPORT FOR ALL NON-INSULATED PIPING

TYPICAL PIPING SUPPORT FOR ALL INSULATED PIPING

TRAPEZE HANGER DETAIL

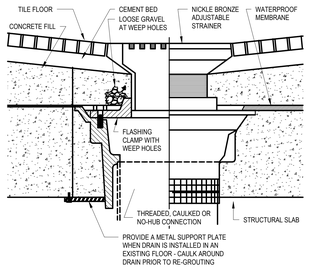
5 P-300 PIPE SUPPORT

NOT TO SCALE



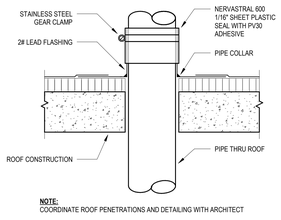
6 P-300 ROOF HYDRANT DETAIL

NTS



7 P-300 TYPE C FLOOR DRAIN DETAIL

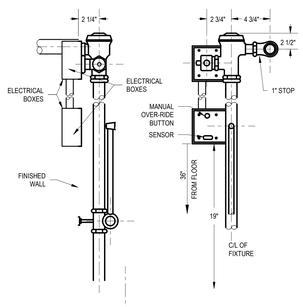
NOT TO SCALE



NOTE: COORDINATE ROOF PENETRATIONS AND DETAILING WITH ARCHITECT

8 P-300 VENT THRU ROOF DETAIL

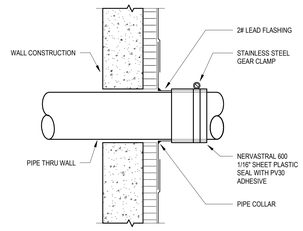
NTS



NOTE: FURNISH 24V TRANSFORMER

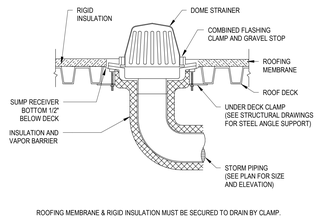
13 P-300 WATER CLOSET DETAIL - SENSOR OPERATED

NOT TO SCALE



9 P-300 VENT THRU WALL DETAIL

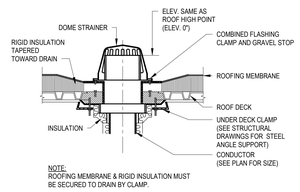
NTS



ROOFING MEMBRANE & RIGID INSULATION MUST BE SECURED TO DRAIN BY CLAMP.

10 P-300 ROOF DRAIN - GENERAL PURPOSE

NOT TO SCALE



NOTE:
ROOFING MEMBRANE & RIGID INSULATION MUST BE SECURED TO DRAIN BY CLAMP.

11 P-300 ROOF DRAIN - OVERFLOW

NOT TO SCALE

FIXTURE UNIT SCHEDULE

TAG	DESCRIPTION	FIXTURE UNIT SCHEDULE				DFU		CWFU	HWFU	TOTAL WSFU		MANUFACTURER	MODEL NO.	REMARKS
		CONNECTION SIZE (IN)												
		WASTE	VENT	CW	HW	FIXTURE	TOTAL	FIXTURE	FIXTURE	FIXTURE	TOTAL			
EDF-1	ELECTRIC DRINKING FOUNTAIN - SURFACE MOUNTED, SINGLE BASIN, BOTTLE FILLER	1 1/4"	1 1/4"	1/2"	0"	1	1	0.25	0	0.25	0.25	ELKAY	LZSBWSLK	SINGLE DRINKING FOUTAIN WITH BOTTLE FILLER.
FD-1	FLOOR DRAIN	4"	2"	0"	0"	6	18	0	0	0	0	SIOUX CHIEF	832	CAST IRON
L-1	LAVATORY - WALL MOUNT, VITREOUS CHINA, WIDESPREAD FAUCET, ADA	1 1/4"	1 1/4"	1/2"	1/2"	1	1	1	1	1.5	1.5	ZURN	Z5344	ADA COMPLIANT, WALL MOUNT, MAX DEPTH OF 6-1/2", FAUCET TO BE ZURN Z6915-XL, AUTOMATIC, HARDWIRED, 0.5 GPM. PROVIDE A.S.S.E. APPROVED TMV. TMV TO BE SET TO 110F.
ORD-1	ROOF DRAIN OVERFLOW - 4" DIAMTER	4"	0"	0"	0"	0	0	0	0	0	0	JR SMITH	1010	CAST IRON BODY AND DOME.
ORD-2	ROOF DRAIN OVERFLOW - 6" DIAMTER	6"	0"	0"	0"	0	0	0	0	0	0	JR SMITH	1010	CAST IRON BODY AND DOME.
RD-1	ROOF DRAIN - 4" DIAMETER	4"	0"	0"	0"	0	0	0	0	0	0	JR SMITH	1010	CAST IRON BODY AND DOME.
RD-2	ROOF DRAIN - 6" DIAMETER	6"	0"	0"	0"	0	0	0	0	0	0	JR SMITH	1010	CAST IRON BODY AND DOME.
RH-1	ROOF HYDRANT	0"	0"	1"	0"	0	0	0	0	0	0	WOODFORD	SRH-MS	FREEZELESS, DRAINLESS ROOF MOUNTED HOSE BIB.
S-1	SINK - DROP IN	1 1/2"	1 1/2"	1/2"	1/2"	2	4	1	1	1.5	3	ELKAY	LRAD191845	ADA, SINGLE BOWL, DROP-IN SINK, FAUCET TO BE MOEN 87932. PROVIDE WITH A.S.S.E. APPROVED TMV. TMV TO BE SET AT 110F.
S-2	SINK - FREE STANDING, TUB	1 1/2"	1 1/2"	1/2"	1/2"	2	4	1	1	1.5	3	MUSTEE	UTILATUB	FREE STAINDING, PLASTIC, UTILITY SINK, MAX DEPTH OF 24" FAUCET TO BE MOEN 4736. PROVIDE WITH A.S.S.E. APPROVED TMV. TMV TO BE SET AT 110F.
S-3	SINK - DROP IN	1 1/2"	1 1/2"	1/2"	1/2"	2	4	1	1	1.5	3	ELKAY	DLR191910	ADA, SINGLE BOWL, DEPTH TO BE A MINIMUM OF 10". DROP-IN SINK. FAUCET TO BE MOEN 87932. PROVIDE WITH A.S.S.E. APPROVED TMV. TMV TO BE SET AT 110F.
WC-1	WATER CLOSET - FLOOR MOUNT, TANK TYPE, ADA	3"	1 1/2"	1/2"	0"	6	6	3	0	3	3	ZURN	Z5655-BWL	MOUNTED AT ADA HEIGHT, FLOOR MOUNTED. FLUSH VALVE TO BE ZEMS6XXAS-IS, HARD WIRED, 1.28 GPF. PROVIDE WITH OPEN FRONT SEAT.
						38					13.75			

RECIRCULATION PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	CAPACITY (GPM)	PUMP HEAD (FT)	ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
						RPM	HP	V	PH	HZ				
RCP-1	MECH	NEW HOT WATER FIXTURES	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.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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CHECKED BY	MJB

PLUMBING SCHEDULES AND DETAILS

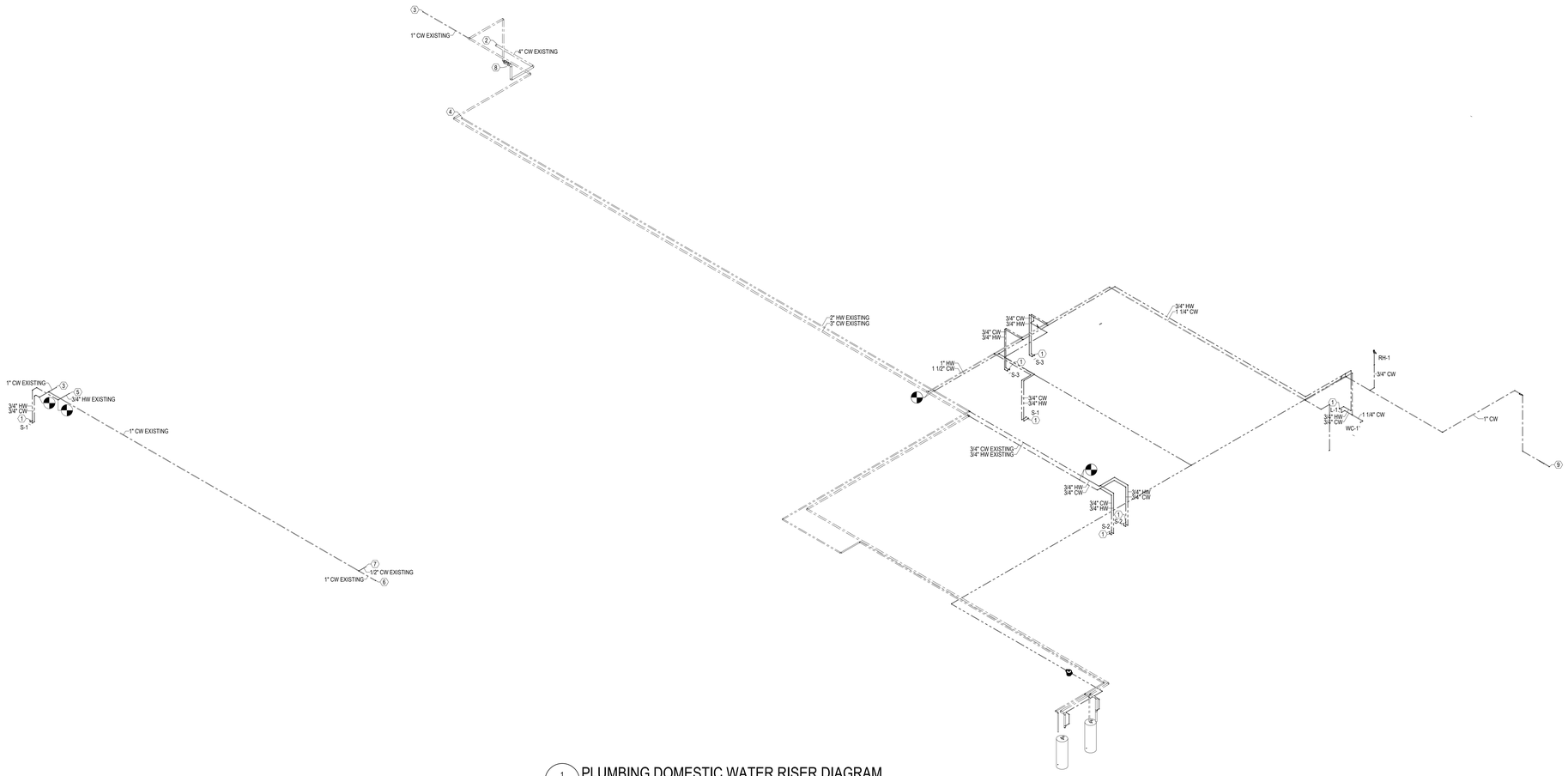
P-300
BIDDING

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DISGRESSION, 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 WHILL AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET P-000 FOR LEGEND.
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
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.

 # KEYNOTES

1 PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
2 4" COLD WATER LINE CONTINUE TO CITY MAIN TO REMAIN.
3 1" COLD WATER LINE CONTINUE TO FEED TO REST OF THE BUILDING TO REMAIN.
4 EXISTING 2" HOT WATER LINE CONTINUE BACK TO WATER HEATER TO REMAIN.
5 EXISTING 3/4" CW, 1/2" HW, AND 2" SANITARY LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
6 EXISTING 1" COLD WATER LINE CONTINUE BACK TO BUILDING MAIN TO REMAIN.
7 EXISTING 1/2" COLD WATER LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
8 EXISTING 4" WATER METER ASSEMBLY TO REMAIN.
9 1" COLD WATER LINE TO CONTINUE UNDER GROUND TO STUB UP TO FUTURE GREENHOUSE WITH FROST PROOF YARD HYDRANT. COORDINATE EXACT LOCATION WITH ARCHITECT.



1 P-400 PLUMBING DOMESTIC WATER RISER DIAGRAM

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PLUMBING DOMESTIC WATER RISER DIAGRAM

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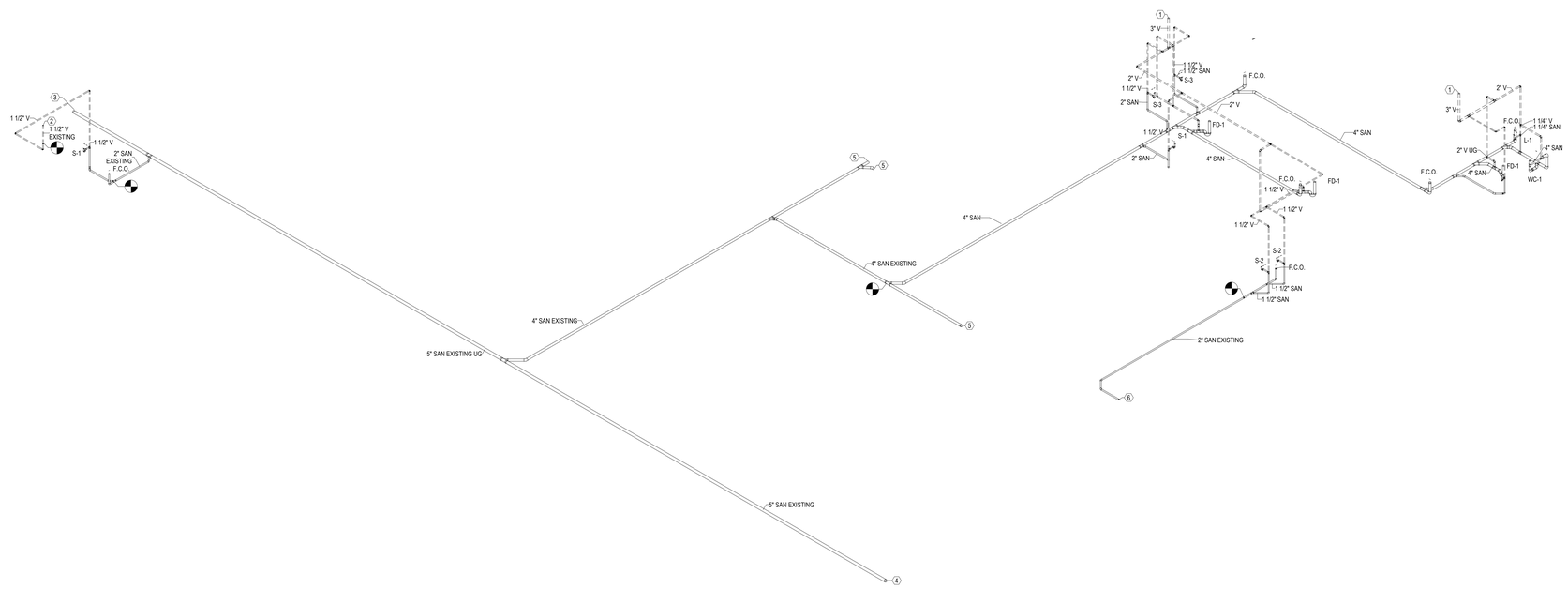
#	KEYNOTES
1	NEW 3" VENT THROUGH ROOF
2	EXISTING 1-1/2" VENT PIPE THROUGH ROOF TO REMAIN.
3	EXISTING 5" SANITARY LINE CONTINUE TO BUILDING MAIN TO REMAIN.
4	EXISTING 5" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
5	EXISTING 4" SANITARY LINE CONTINUE TO RECEIVE FROM THE REST OF THE BUILDING TO REMAIN.
6	EXISTING 2" SANITARY LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.



1 P-401 PLUMBING SANITARY AND VENT RISER DIAGRAM

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PLUMBING SANITARY AND VENT RISER DIAGRAM

P-401

BIDDING

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

DUCT INSULATION NOTES:

ALL EXPOSED DUCT WORK IN CONDITIONED SPACES OR SPIRAL DUCT	1" LINED
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 SYSTEMS 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.

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
- M — ENERGY METER
- 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

HVAC SENSORS:

- CO2 — CARBON DIOXIDE
- CO — CARBON MONOXIDE
- DP — 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

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. 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. 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.

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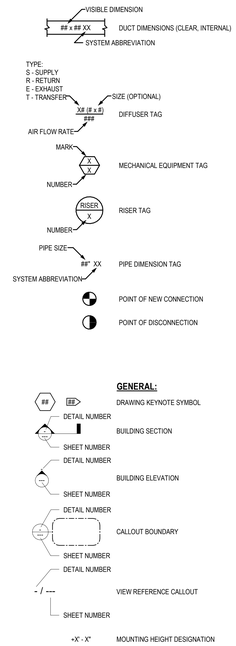

GENERAL:

RENOVATION LEGEND:

<X>	EXISTING TO REMAIN
<XRL>	EXISTING TO BE RELOCATED
<XD>	EXISTING TO BE REMOVED
<XNL>	EXISTING IN NEW LOCATION
<N>	NEW

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 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
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQAURE 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
TYP	TYPICAL
UC	UNDERCUT (DOOR)
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
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
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
HVAC	HEATING & VENTILATING - AIR CONDITIONING
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

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

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PROJECT	223049.00
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CHECKED BY	MJB

MECHANICAL LEGEND

M-000
BIDDING

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DISGRESSION, 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 WHILL AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVISED 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.

 # KEYNOTES

1 EXISTING UNIT HEATER TO BE DEMOLISHED. DEMO ALL HYDRONIC LINES AND CONTROL WIRING. PATCH WALL TO MATCH EXISTING.
2 EXISTING DUCT WORK TO REMAIN.
3 EXISTING DUCT HEATER TO REMAIN.
4 EXISTING DIFFUSER TO BE DEMOLISHED. DEMOLISH ALL CORRESPONDING DUCT WORK BACK TO DEMO SYMBOL.
5 EXISTING DUCT WORK TO BE DEMOLISHED. DEMOLISH DUCT WORK BACK TO DEMO SYMBOL.
6 EXISTING THERMOSTATIC SENSOR AND DDC WIRING CONNECTED TO CORRESPONDING EQUIPMENT TO REMAIN.
7 EXISTING THERMOSTATIC SENSOR TO BE RELOCATED. RECONNECT DDC WIRING TO CORRESPONDING EQUIPMENT.

NOT IN SCOPE

NOT IN SCOPE

1 MD101A — MECHANICAL FIRST FLOOR DEMOLITION PLAN - MODULE A
1/8" = 1'-0"

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MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - MODULE A

MD101A
BIDDING

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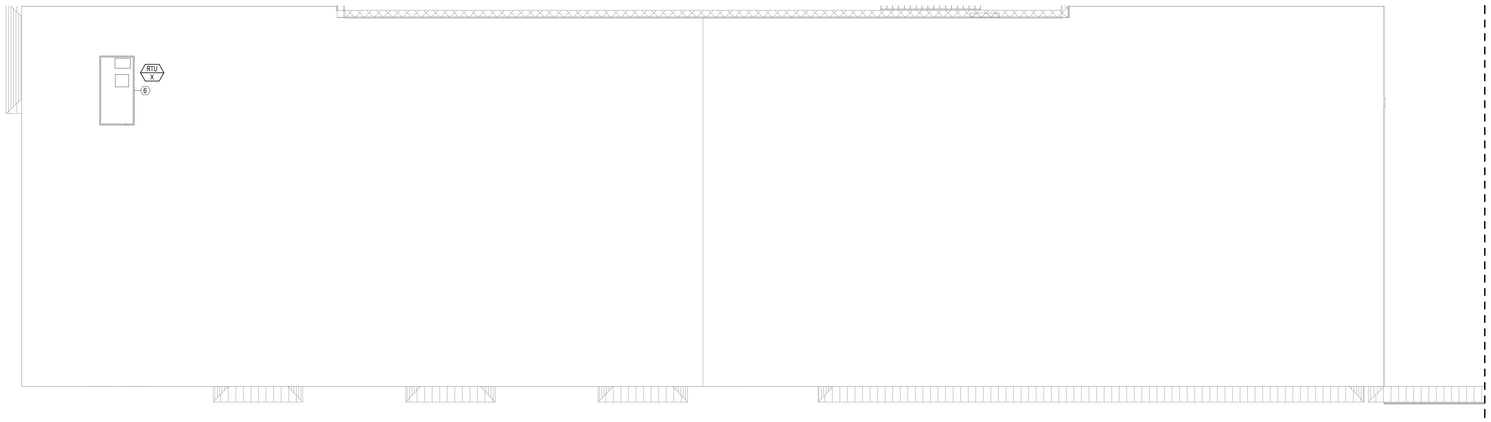
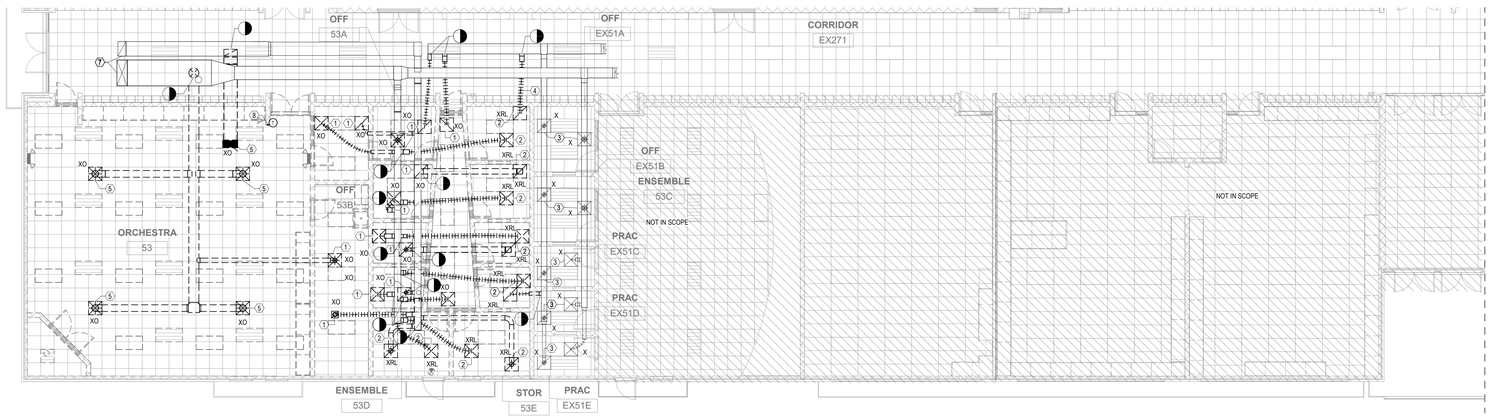
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.

 # KEYNOTES

1 EXISTING DIFFUSER TO BE DEMOLISHED. DEMOLISH ALL CORRESPONDING DUCTWORK BACK TO MECHANICAL UNIT.
2 EXISTING DIFFUSER TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING DIFFUSER.
3 EXISTING DIFFUSER TO REMAIN. RECONNECT CORRESPONDING DUCTWORK TO MAINS.
4 EXISTING DIFFUSER TO BE RELOCATED INTO NEW CEILING GRID AND BE RECONNECTED INTO EXISTING DUCTWORK AND REBALANCED TO NEW CFM.
5 EXISTING DIFFUSER TO BE DEMOLISHED. DEMO ALL DUCT WORK BACK TO MAINS. ALTERNATIVE BID TO DEMOLISH DIFFUSER IN SUCH A WAY TO REUSE AND RELOCATE EXISTING DIFFUSER.
6 EXISTING RTU TO REMAIN.
7 EXISTING 46"X18" SUPPLY DUCT DOWN AND EXISTING 26"X14" RETURN DUCT UP TO RTU-X ON ROOF. EXISTING DUCTS AND MECHANICAL EQUIPMENT ON ROOF TO REMAIN.
8 EXISTING THERMOSTAT TO RE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING THERMOSTAT. PATCH WALL TO MATCH EXISTING.



2 MD101B — MECHANICAL ROOF HVAC DEMOLITION PLAN - MODULE B
1/8" = 1'-0"



1 MD101B — MECHANICAL FIRST FLOOR DEMOLITION PLAN - MODULE B
1/8" = 1'-0"

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MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - MODULE B

MD101B
BIDDING

GENERAL NOTES:

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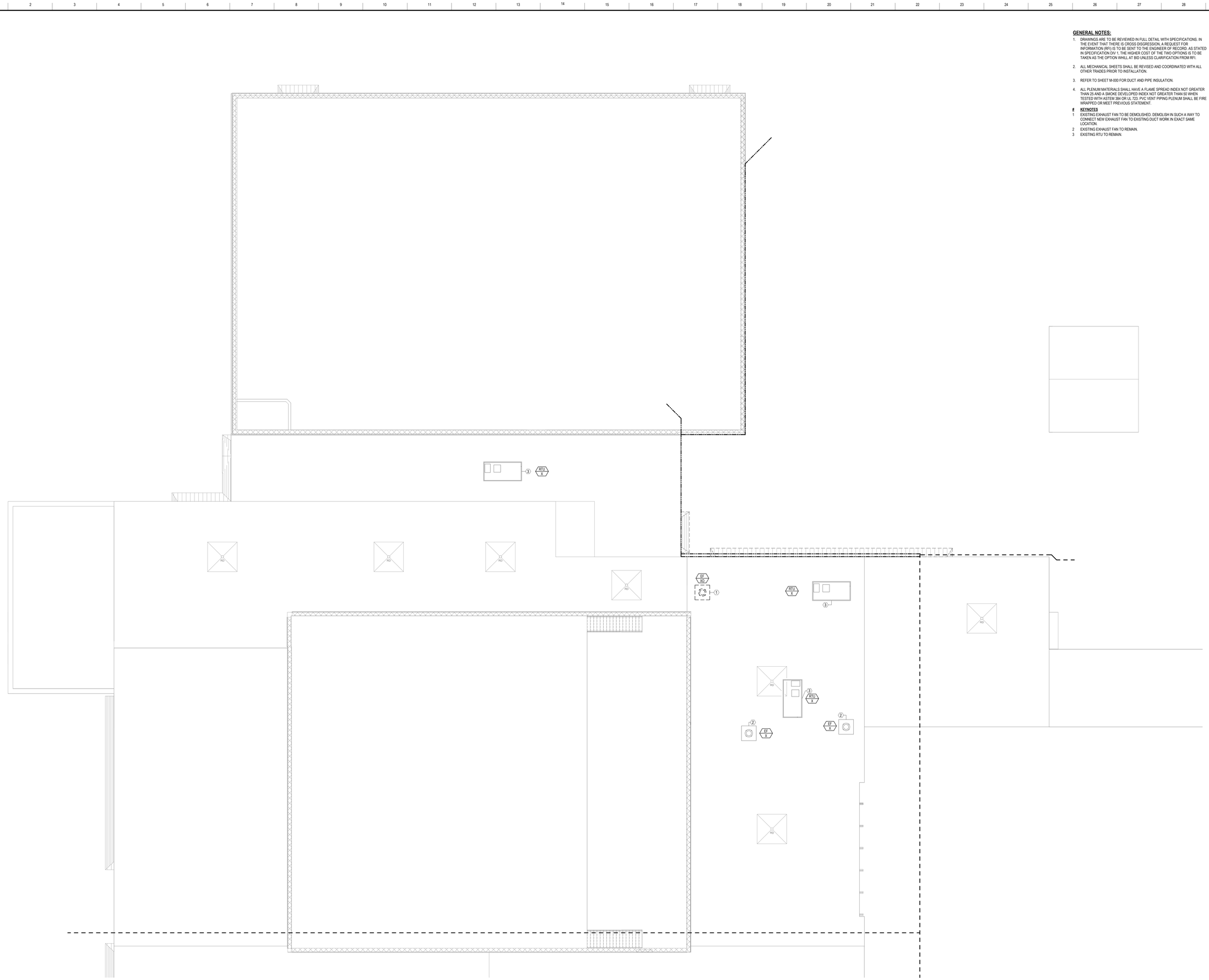
2. ALL MECHANICAL SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.

 # KEYNOTES

1 EXISTING EXHAUST FAN TO BE DEMOLISHED. DEMOLISH IN SUCH A WAY TO CONNECT NEW EXHAUST FAN TO EXISTING DUCT WORK IN EXACT SAME LOCATION.
2 EXISTING EXHAUST FAN TO REMAIN.
3 EXISTING RTU TO REMAIN.



1 MD102A — MECHANICAL ROOF HVAC DEMOLITION PLAN - MODULE A
1/8" = 1'-0"

LEGAT ARCHITECTS
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MECHANICAL ROOF HVAC DEMOLITION PLAN - MODULE A

MD102A

BIDDING

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2. ALL MECHANICAL SHEETS SHALL BE REVISED 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.

 # KEYNOTES

1 EXISTING DUCT WORK TO REMAIN.
2 NEW 40"X30" RETURN DUCT CONTINUE UP TO RTU A104 ON ROOF. SEE SHEET M-202A FOR MORE INFORMATION.
3 6" DIAMETER EXHAUST DUCT UP TO CAP 102 ON ROOF. SEE SHEET M-202A FOR MORE INFORMATION.
4 PROVIDE LINED ELBOW OFF RETURN DUCT FOR PLENUM RETURN.
5 EXISTING DUCT HEATER TO REMAIN.
6 EXISTING DIFFUSER TO REMAIN. REBALANCE TO NEW CFM.
7 26"X26" SUPPLY DUCT DOWN FROM RTU A104 SEE SHEET M-202A FOR MORE DETAILS.
8 20"X20" SUPPLY DUCT TO BEND UP INTO CEILING SPACE.

1 MECHANICAL FIRST FLOOR HVAC PLAN - MODULE A
M-101A 1/8" = 1'-0"

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MECHANICAL FIRST FLOOR HVAC PLAN - MODULE A

M-101A
BIDDING

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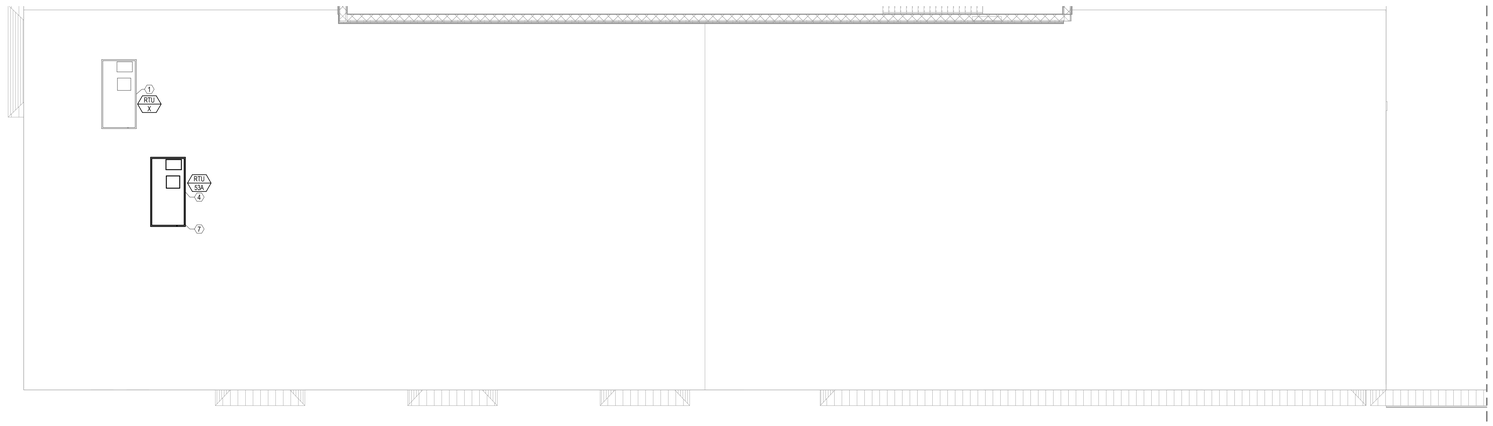
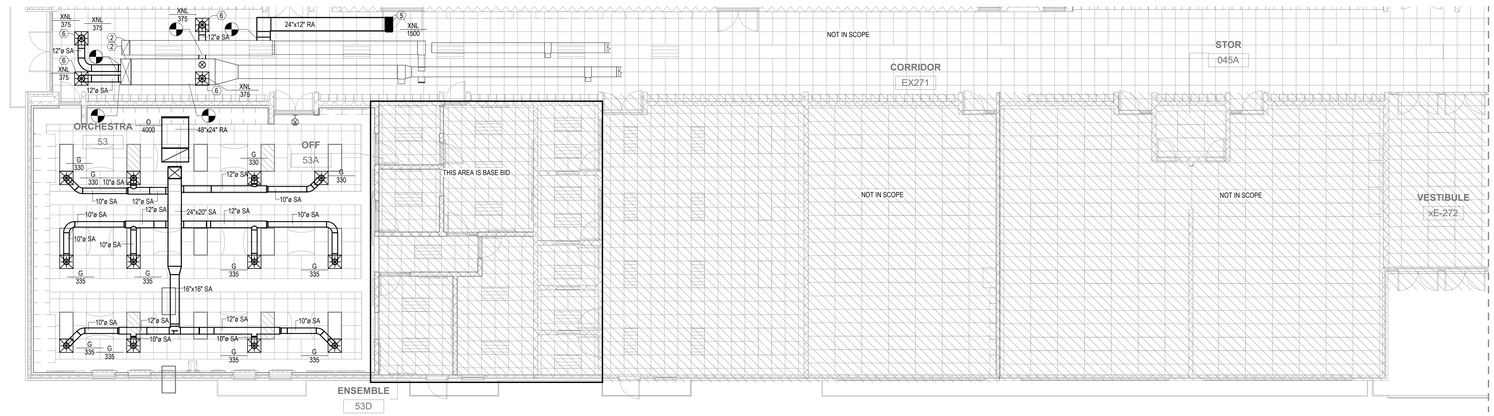
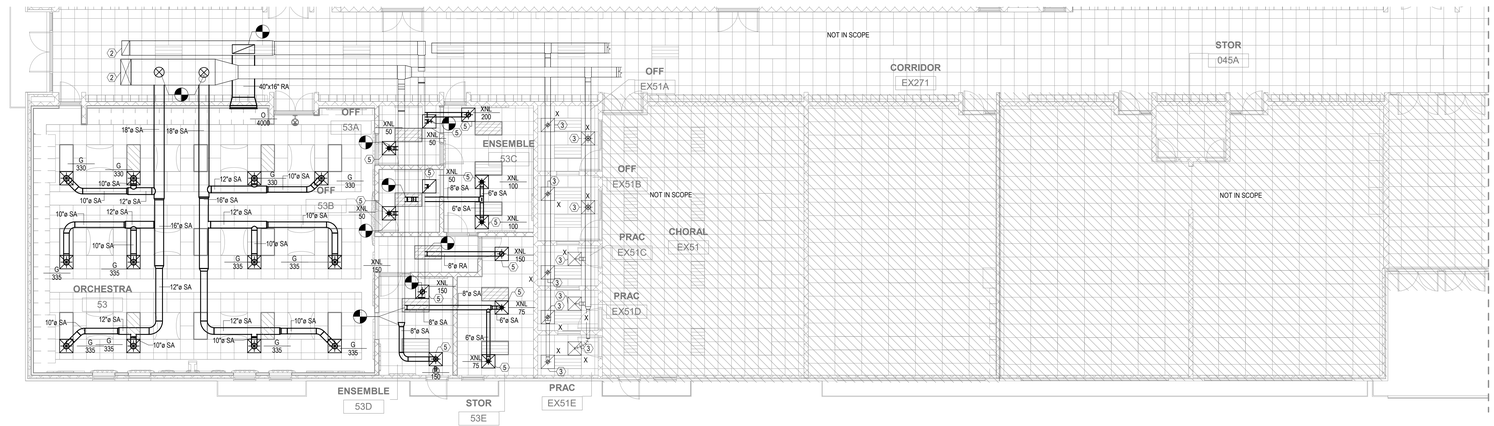
#	KEYNOTES
1	EXISTING RTU TO REMAIN.
2	EXISTING 46"X18" SUPPLY DUCT DOWN AND EXISTING 26"X14" RETURN DUCT UP TO RTU-X ON ROOF. EXISTING DUCTS AND MECHANICAL EQUIPMENT ON ROOF TO REMAIN.
3	EXISTING DIFFUSER TO REMAIN. RECONNECT CORRESPONDING DUCTWORK TO MAINS.
4	MECHANICAL EQUIPMENT IS IN ALTERNATIVE BID. USE IF ALTERNATIVE BID IS APPROVED.
5	EXISTING DIFFUSER TO BE RELOCATED INTO NEW CEILING GRID AND BE RECONNECTED INTO EXISTING DUCTWORK AND REBALANCED TO NEW CFM.
6	ALTERNATIVE BID: EXISTING DIFFUSER TO BE RELOCATED IN THIS LOCATION. RECONNECT TO EXISTING DUCT MAINS IN CORRIDOR AND REBALANCE TO NEW CFM.
7	SEE CONTROLS DRAWINGS ON SHEET M-305 FOR MORE INFORMATION.



3 M-101B — MECHANICAL ROOF HVAC PLAN - MODULE B
1/8" = 1'-0"



2 M-101B — MECHANICAL FIRST FLOOR HVAC PLAN - MODULE B - ALTERNATIVE BID
1/8" = 1'-0"



1 M-101B — MECHANICAL FIRST FLOOR HVAC PLAN - MODULE B
1/8" = 1'-0"

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MECHANICAL FIRST FLOOR HVAC PLAN - MODULE B

M-101B
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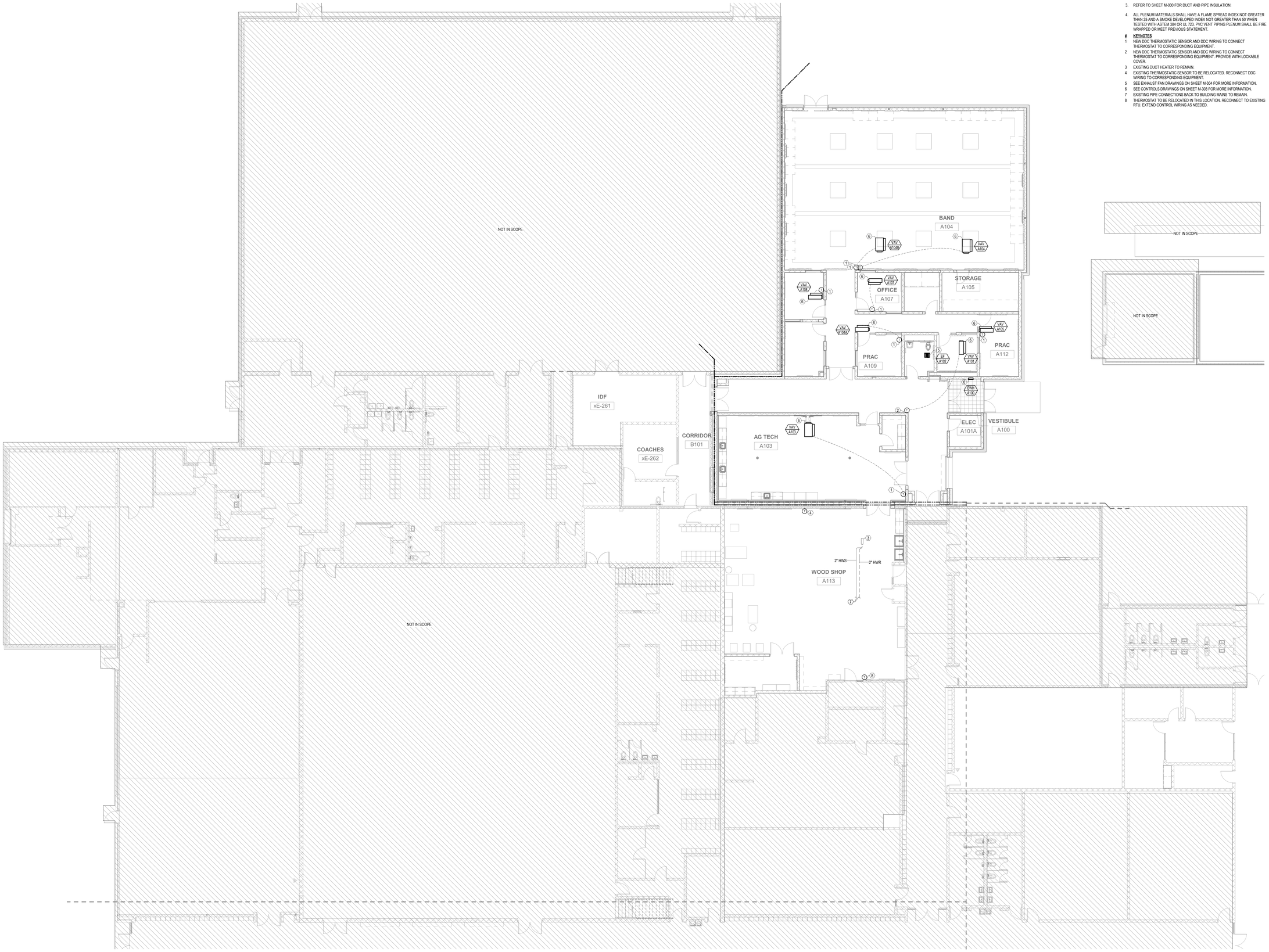
 # KEYNOTES

1 NEW DDC THERMOSTATIC SENSOR AND DDC WIRING TO CONNECT THERMOSTAT TO CORRESPONDING EQUIPMENT.
2 NEW DDC THERMOSTATIC SENSOR AND DDC WIRING TO CONNECT THERMOSTAT TO CORRESPONDING EQUIPMENT. PROVIDE WITH LOCKABLE COVER.
3 EXISTING DUCT HEATER TO REMAIN.
4 EXISTING THERMOSTATIC SENSOR TO BE RELOCATED. RECONNECT DDC WIRING TO CORRESPONDING EQUIPMENT.
5 SEE EXHAUST FAN DRAWINGS ON SHEET M-304 FOR MORE INFORMATION.
6 SEE CONTROLS DRAWINGS ON SHEET M-303 FOR MORE INFORMATION.
7 EXISTING PIPE CONNECTIONS BACK TO BUILDING MAINS TO REMAIN.
8 THERMOSTAT TO BE RELOCATED IN THIS LOCATION. RECONNECT TO EXISTING RTU. EXTEND CONTROL WIRING AS NEEDED.



1 MECHANICAL FIRST FLOOR CONTROLS AND HYDRONIC PLAN - MODULE A
M-201A 1/8" = 1'-0"

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MECHANICAL FIRST FLOOR CONTROLS AND HYDRONIC - MODULE A

M-201A
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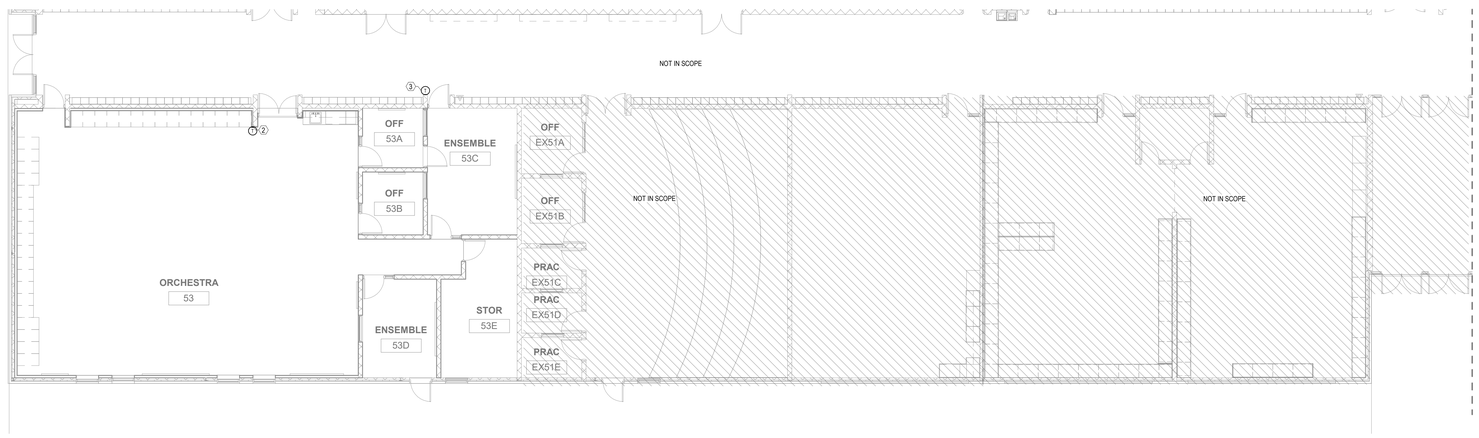
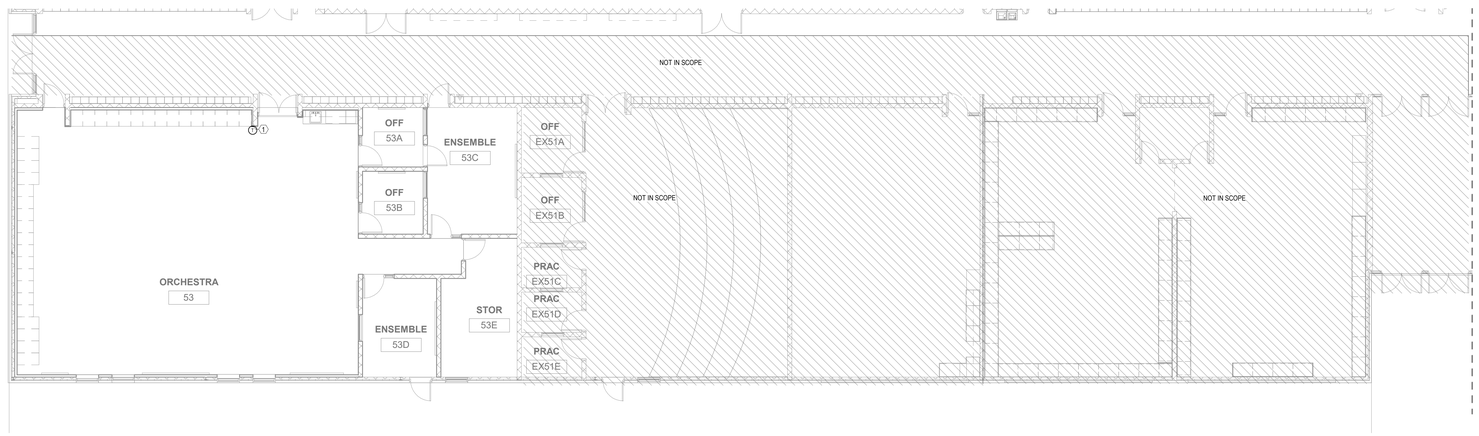
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
4. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.

 # KEYNOTES

1 THERMOSTAT TO BE RELOCATED IN THIS LOCATION. RECONNECT TO EXISTING RTU. EXTEND CONTROL WIRING AS NEEDED.
2 THERMOSTAT TO CONTROL RTU 53-A SEE SHEET M-101B FOR MORE DETAILS. THERMOSTAT TO HAVE HUMIDITY SENSOR TO MONITOR HUMIDITY IN THE SPACE.
3 ALTERNATIVE BID: EXISTING THERMOSTAT TO BE RELOCATED IN THIS LOCATION. PROVIDE LOCKABLE COVER. EXTEND DDC CONTROL WIRING AS NEEDED.



2 M-201B ALTERNATIVE BID - MECHANICAL FIRST FLOOR CONTROL PLAN - MODULE B
1/8" = 1'-0"



1 M-201B MECHANICAL FIRST FLOOR CONTROL PLAN - MODULE B
1/8" = 1'-0"

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CHECKED BY	MJB

MECHANICAL FIRST FLOOR CONTROLS - MODULE B

M-201B
BIDDING

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DISGRESSION, 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 WHILL AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVISED 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.

 # KEYNOTES

1 EXISTING RTU TO REMAIN.
2 NEW EXHAUST CAP TO BE A MINIMUM OF 10'-0" AWAY FROM NAY FRESH AIR INTAKE.
3 EXISTING EXHAUST FAN TO REMAIN.
4 SEE CONTROLS DRAWINGS ON SHEET M-302 FOR MORE INFORMATION.
5 SEE EXHAUST FAN DRAWINGS ON SHEET M-304 FOR MORE INFORMATION.

RTU X
RTU A104
CAP 100
EF B100
EF X

1 MECHANICAL ROOF HVAC PLAN - MODULE A
M-202A
1/8" = 1'-0"

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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Eldridge, IA 52748

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SIGNATURE
DATE

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MECHANICAL ROOF HVAC PLAN - MODULE A

M-202A
BIDDING

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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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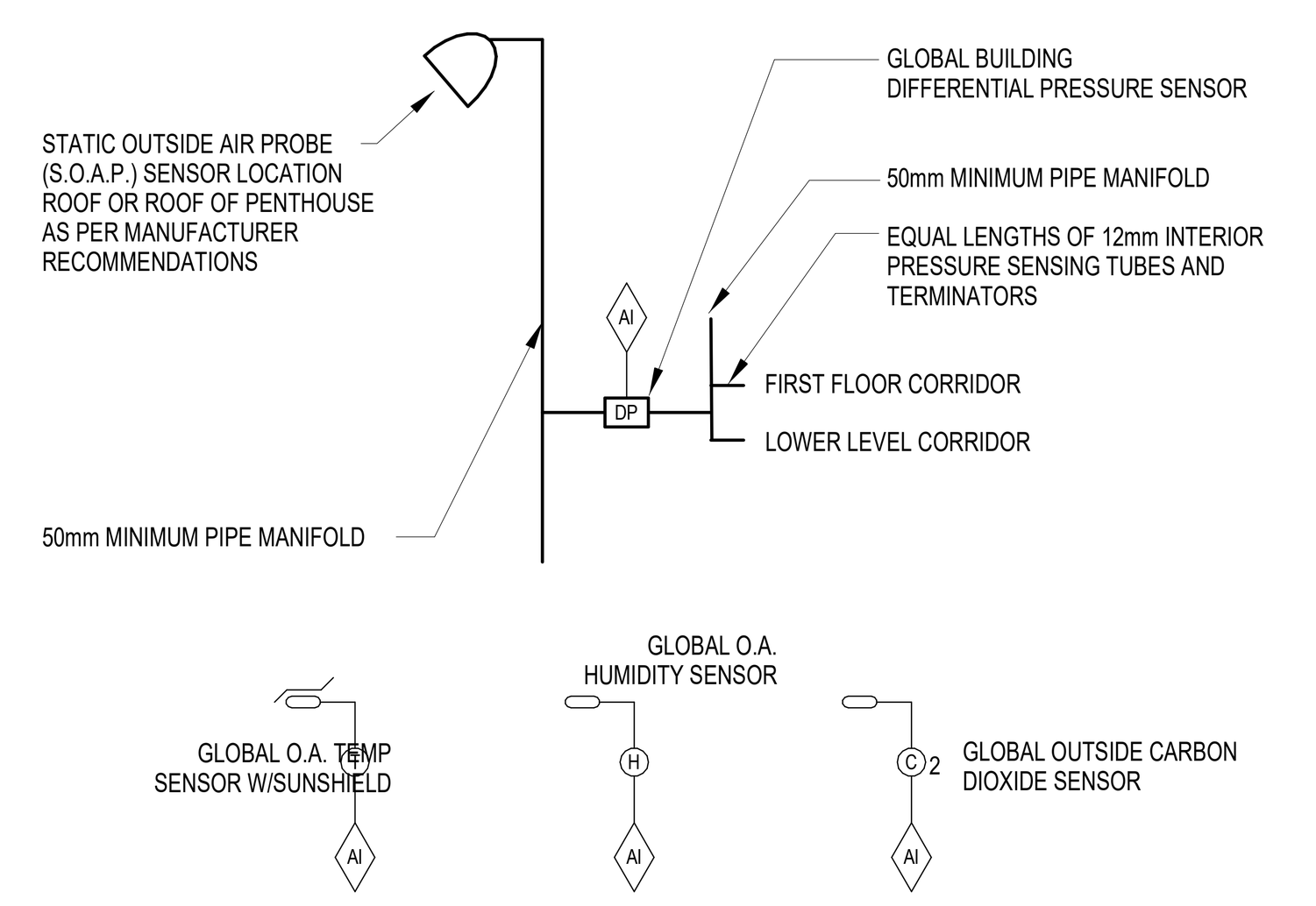


GLOBAL REFERENCE POINTS:

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:

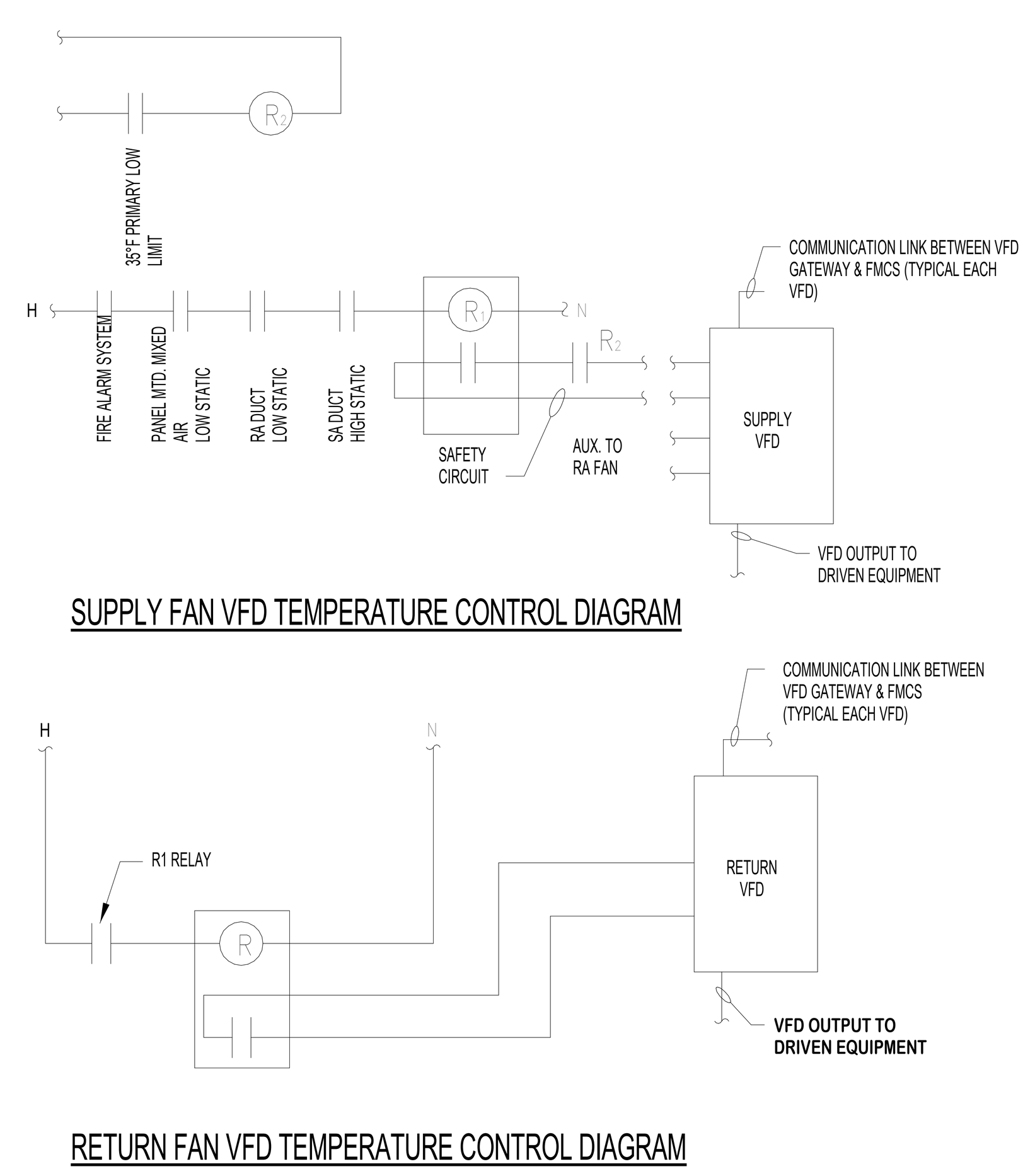
- LOCATE ON THE EXTERIOR OF THE BUILDING. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT.

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

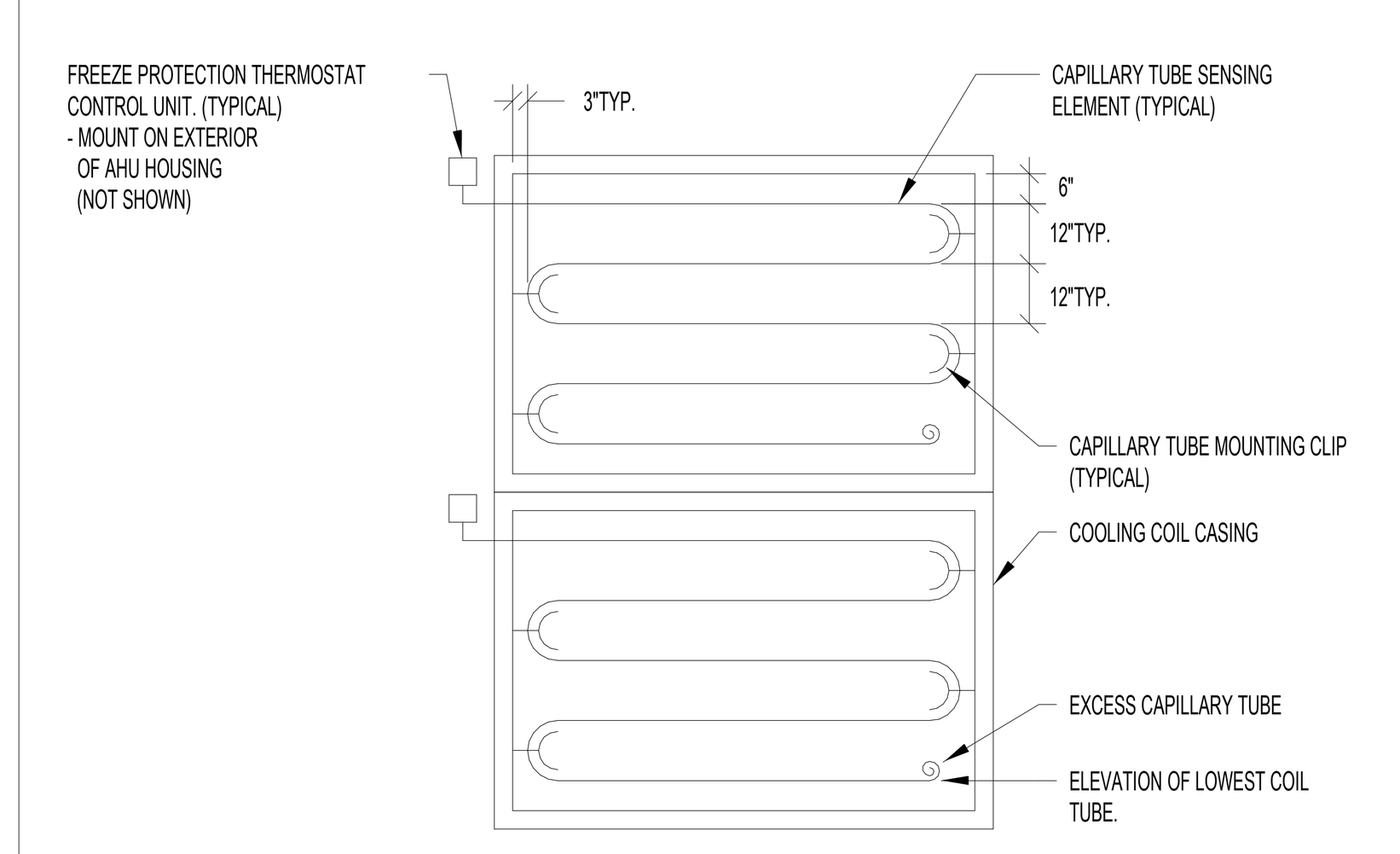


2 SUPPLY & RETURN FAN VFD SAFETY CONTROL DIAGRAM

NOT TO SCALE

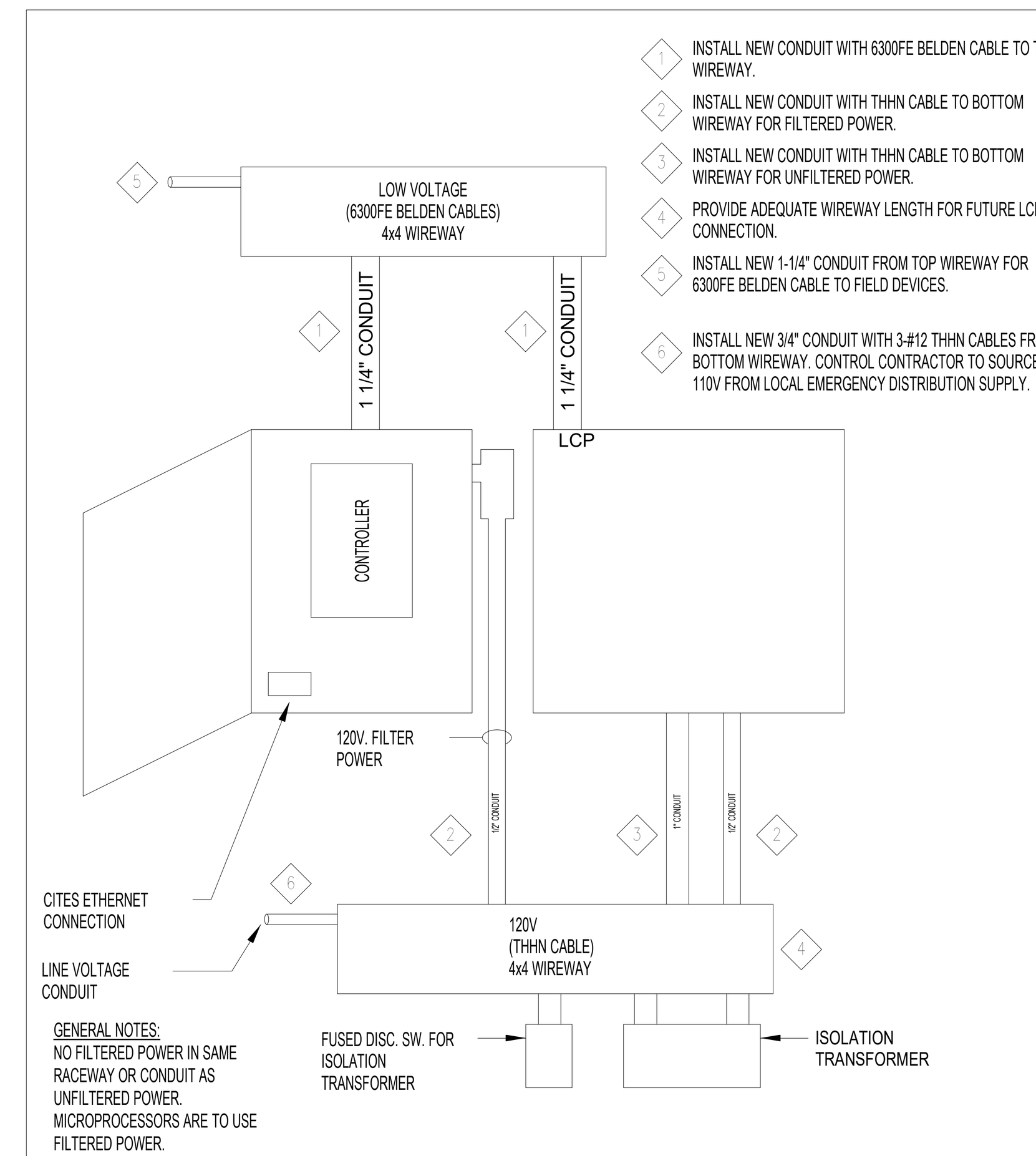
NOTES:

1. INSTALL FREEZE PROTECTION THERMOSTAT (A.K.A. FREEZESTAT) CONTROL UNIT(S) ON EXTERIOR OF AIR HANDLING UNIT HOUSING.
2. SAFE OFF / SEAL SPACE BETWEEN COIL CASING AND AHU HOUSING TO PREVENT NUISANCE FREEZESTAT TRIPS.
3. INSTALL FREEZESTAT CAPILLARY TUBE SENSING ELEMENT(S) ON UPSTREAM FACE OF EACH COIL. PROVIDE COMPLETE COVERAGE SUCH THAT CAPILLARY TUBE(S) ARE WITHIN 6" OF EVERY POINT ON COIL FACE.
4. PROVIDE MULTIPLE FREEZESTAT(S) AS REQUIRED FOR COMPLETE COVERAGE OF LARGER COILS.
5. SUPPORT CAPILLARY TUBE(S) FROM SIDES OF COIL CASING USING CLIPS DESIGNED FOR THIS PURPOSE.
6. PITCH CAPILLARY TUBE(S) CONTINUALLY DOWNWARD WITHOUT SAGGING.
7. INSTALL LAST PASS OF CAPILLARY TUBE AT SAME ELEVATION AS LOWEST COIL TUBE.
8. ROLL UP EXCESS PORTION OF CAPILLARY TUBE, TIE-WRAP NEATLY AND LOCATE IN LOWER CORNER OF COIL CASING.
9. FOR PROTECTION OF CHILLED WATER COILS, PROVIDE TWO COMPLETE SETS OF FREEZE PROTECTION THERMOSTATS:
   40°F SETPOINT - AUTOMATIC RESET
   35°F SETPOINT - MANUAL RESET
   INSTALL EACH COMPLETE SET INDEPENDENTLY FOLLOWING PROCEDURE OUTLINED ABOVE.
10. COMB ANY BENT COIL FINS AFTER INSTALLATION IS COMPLETE.



3 FREEZE PROTECTION THERMOSTAT INSTALLATION

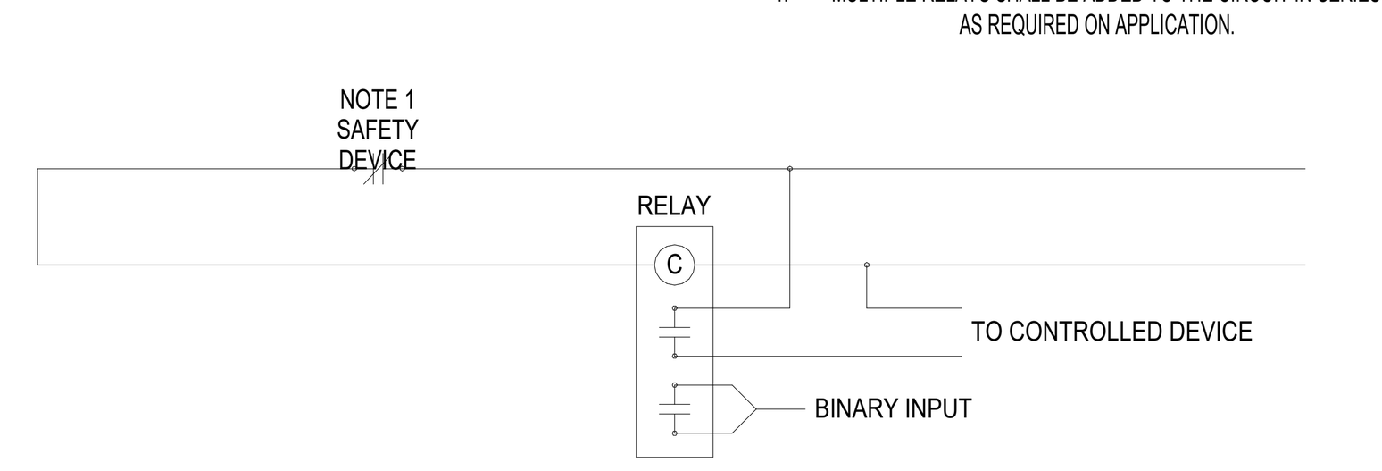
NOT TO SCALE



4 DDC PANEL INSTALLATION DETAIL

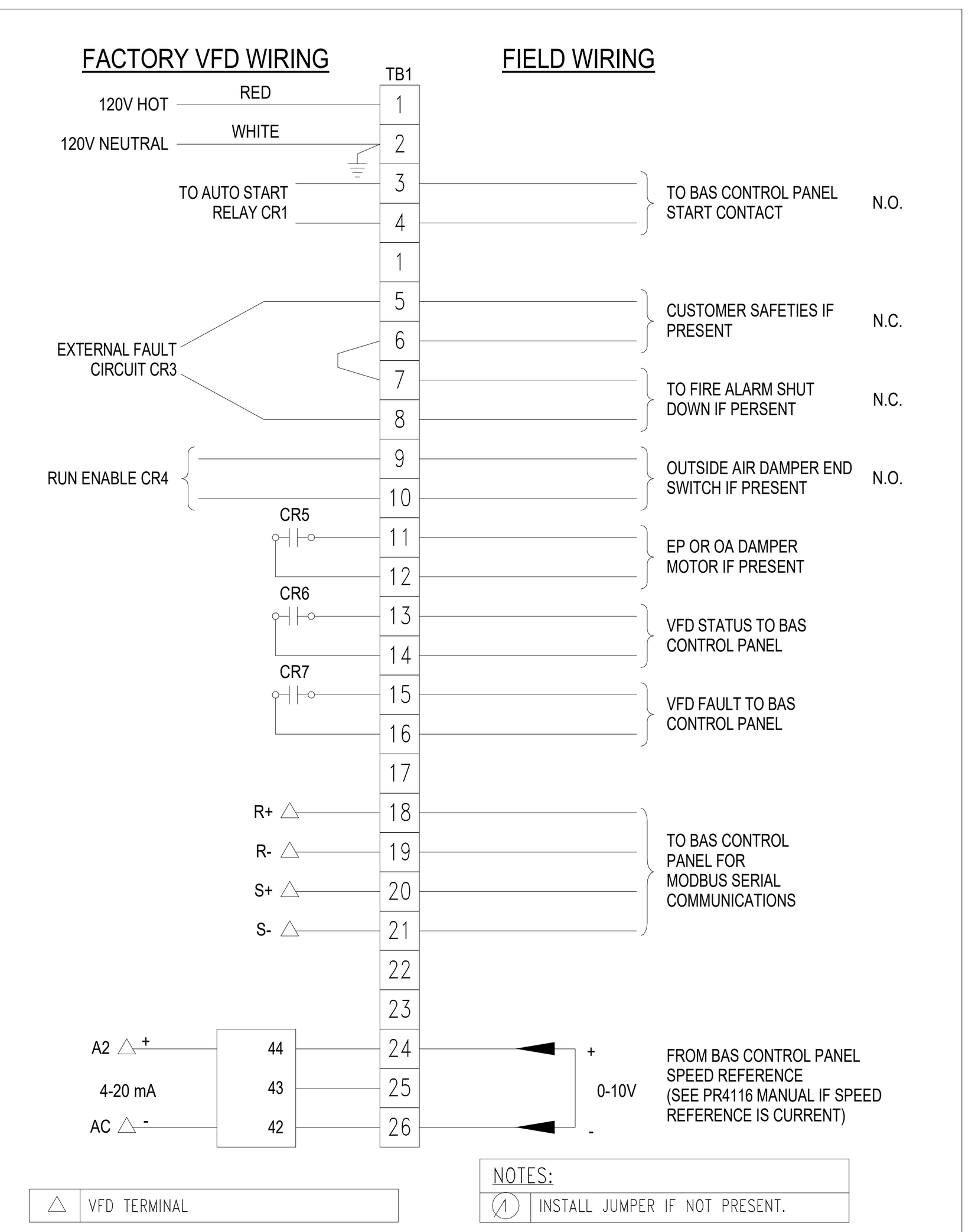
NOT TO SCALE

GENERAL NOTE:
1. MULTIPLE RELAYS SHALL BE ADDED TO THE CIRCUIT IN SERIES AS REQUIRED ON APPLICATION.



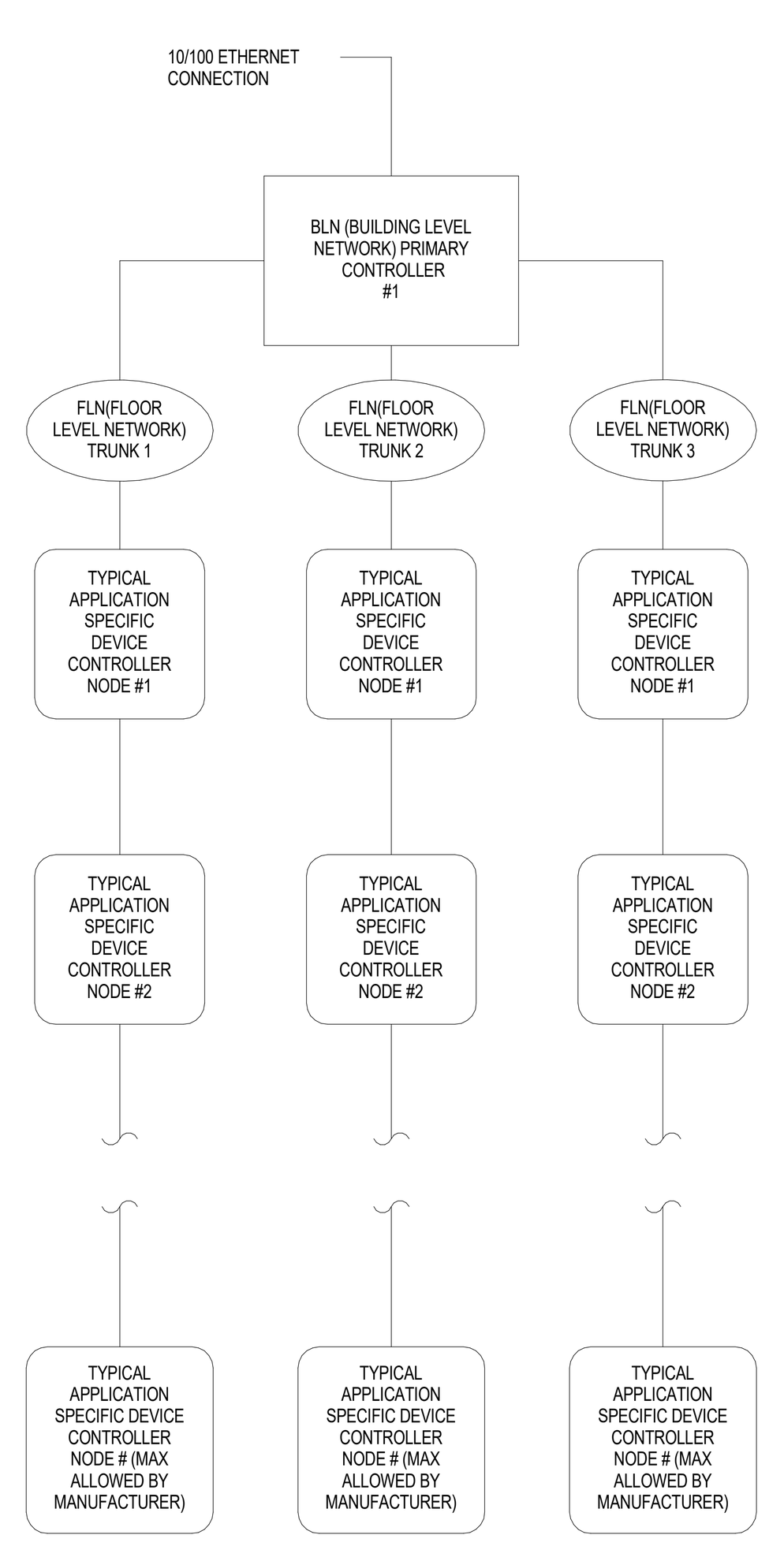
5 GENERAL SAFETY CIRCUIT

NOT TO SCALE



6 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.

7 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
TS1	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	HLH	HIGH LIMIT HUMIDISTAT
HS1	HUMIDITY SENSOR	OL	THERMAL OVERLOAD	TDR	TIME DELAY RELAY DELAY ON MAKE OR BREAK
FZ1	LOW TEMPERATURE SWITCH (FREEZESTAT)		NORMALLY OPEN AND NORMALLY CLOSED CONTACTS	HST	DUCT MOUNTED HUMIDISTAT
FS1	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 OCC	NEW DIGITAL CONTROL STATION OCCUPANCY SENSOR
DPS1	DIFFERENTIAL PRESSURE SWITCH		WIRING CONNECTION		
M	MAIN AIR SUPPLY	ON-OFF	ON-OFF SELECTOR SWITCH		
IP1 O M I M	CURRENT TO PNEUMATIC TRANSDUCER	T	ROOM TEMPERATURE SENSOR AS SHOWN ON FLOOR PLANS		AIR FLOW MONITORING STATION
	TWO WAY CONTROL VALVE	HS	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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MECHANICAL CONTROLS LEGEND

M-301
BIDDING

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.
BAS CONTRACTOR (DELTA) SHALL PROVIDE BACNET CONTROLLER FOR RTU.

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 SHALL STAGE 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°F (ADJ) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE GAS HEAT SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60°F (ADJ) PLUS THE UNOCCUPIED DIFFERENTIAL OF 4°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°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°F (ADJ) MINUS THE UNOCCUPIED DIFFERENTIAL OF 4°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 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).

ECONOMIZER:
THE SUPPLY AIR SENSOR SHALL MEASURE THE DRY BULB TEMPERATURE OF THE AIR LEAVING THE EVAPORATOR COIL WHILE ECONOMIZING. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED 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 MIXED AIR TEMPERATURE FALLS BELOW THE LOW LIMIT TEMPERATURE SETTING. COMPRESSORS SHALL BE DELAYED FROM OPERATING UNTIL THE ECONOMIZER HAS OPENED TO 100%.

REFERENCE DRY BULB:
OUTSIDE AIR (OA) TEMPERATURE SHALL COMPARED WITH A REFERENCE DRY BULB SETPOINT. THE ECONOMIZER SHALL ENABLE WHEN THE OA TEMPERATURE IS LESS THAN REFERENCE DRY BULB SETPOINT (ADJ). THE ECONOMIZER SHALL BE DISABLED WHEN OA TEMPERATURE IS GREATER THAN REFERENCE DRY BULB SETPOINT + 5°F (ADJ).

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:
THE UNIT CONTROLLER SHALL MODULATE THE SUPPLY FAN OUTPUT AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT. IF THE DUCT STATIC PRESSURE FALLS BELOW THE SUPPLY AIR STATIC SETPOINT + DEADBAND, THE UNIT CONTROLLER SHALL INCREASE THE OUTPUT TO THE SUPPLY FAN TO MAINTAIN SETPOINT. IF THE DUCT STATIC PRESSURE RISES ABOVE THE SUPPLY AIR STATIC SETPOINT + DEADBAND, THE UNIT CONTROLLER SHALL DECREASE THE OUTPUT TO THE SUPPLY FAN TO MAINTAIN SETPOINT.

DUCT STATIC OPTIMIZATION, IN COMPLIANCE WITH ASHRAE 90.1, SHALL BE EMPLOYED. THE UNIT DUCT STATIC PRESSURE SETPOINT SHALL RESET IN RESPONSE TO ZONE DAMPER POSITION KEEPING THE CRITICAL ZONE DAMPER AT LEAST 75% OPEN (ADJ) IN EFFORT TO PREVENT DUCT OVERPRESSURIZATION.
IF FOR ANY REASON THE SUPPLY AIR PRESSURE EXCEEDS THE FIXED SUPPLY AIR PRESSURE LIMIT OF 3.5 INCHES OF W.C. THE SUPPLY FAN SHALL SHUT DOWN. THE UNIT SHALL BE ALLOWED TO RESTART THREE TIMES. 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.

DISCHARGE AIR TEMPERATURE RESET:
THE DISCHARGE AIR TEMPERATURE SHALL RESET LINEARLY UPWARDS FROM 55°F (ADJ) TO 60°F (ADJ) FROM AMBIENT TEMPERATURES OF 65°F (ADJ) TO 55°F (ADJ).

DISCHARGE AIR TEMPERATURE TEMPERING (UNIT HEAT) SHALL BE ENABLED AND SET TO 65°F (ADJ) AT AMBIENT TEMPERATURES OF 35°F AND BELOW DURING OCCUPIED PERIODS. DAT TEMPERING SHALL BE OVERRIDDEN BY ANY ZONE DAMPER POSITION OPENING TO 95% FOR MORE THAN 10 MINUTES (ADJ).

BUILDING PRESSURE CONTROL:
THE POWER EXHAUST SHALL ENABLE WHEN THE ECONOMIZER DAMPER POSITION IS EQUAL TO OR GREATER THAN THE EXHAUST FAN SETPOINT.

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.

DEHUMIDIFICATION:
ZONE HUMIDITY SHALL BE MONITORED BY BAS. IF ANY ZONE RH LEVELS INCREASE TO 55% OR GREATER, DAT SHALL BE COMMANDED TO 53°F (ADJ) AND ANY DAT RESET SEQUENCE SHALL BE DISABLED.

DEMAND CONTROLLED VENTILATION:
IN OCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM OUTSIDE AIR POSITION. WHEN THE CO2 LEVEL RISES ABOVE THE CO2 SETPOINT OF 800 PPM (ADJ) (BASED ON SPACE CO2 SENSOR), THE OUTSIDE AIRFLOW SHALL INCREASE UP TO THE MAXIMUM OUTSIDE AIR DAMPER POSITION UNTIL THE CALL FOR VENTILATION IS SATISFIED, AS PER ASHRAE 62.1.

ROOF TOP UNIT (RTU-A104) - SERVING VAV BOXES

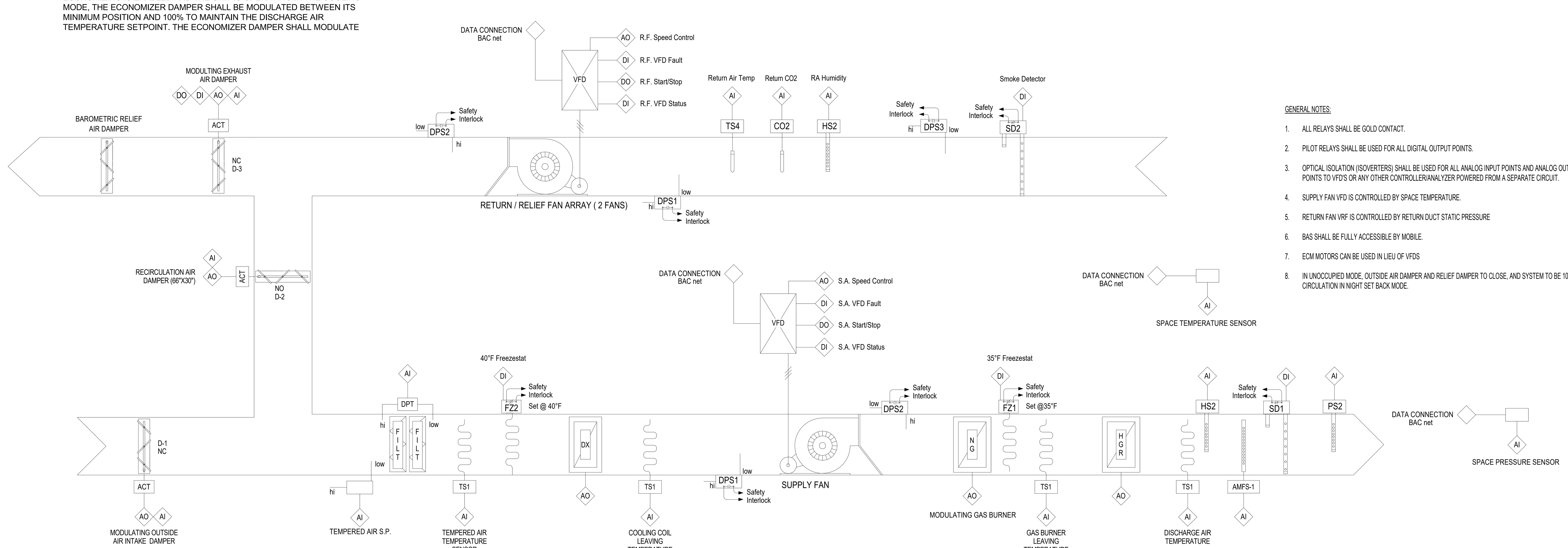
	INPUTS																OUTPUTS									SYSTEM FEATURES											
	ANALOG							DIGITAL									ANALOG				DIGITAL					ALARMS				MISCELLANEOUS							
	TEMPERATURE SENSOR	HUMIDITY SENSOR	PRESSURE	AIRFLOW MEASUREMENT	SETPOINT ADJUST	POSITION FEEDBACK	OTHER	DIFFERENTIAL PRESSURE SWITCH	FLOW SWTICH	CURRENT SWTICH	THERMOSTAT	HUMIDISTAT	STATUS	ALARM	OVERRIDE	OTHER	MODULATING	SETPOINT	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	PAGING	SYSTEM GRAPHIC	CUSTOM REPORT	NOTES
OUTSIDE AIR TEMPERATURE	X																														X	X			X		
OUTSIDE AIR HUMIDITY		X																													X	X			X		
OUTSIDE AIR DAMPER						X																									X	X			X		
EXTERIOR OUTSIDE INCOMING AIR DAMPER													X										X					X	X					X	X		1
BUILDING PRESSURE			X																							X	X				X				X		
FILTER DIFFERENTIAL PRESSURE TRANSMITTER			X																							X					X				X		
TEMPERED AIR STATIC PRESSURE TRANSMITTER			X																							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	X		1
SUPPLY FAN START-STOP																						X								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				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		
GAS HEAT BURNER LEAVING TEMPERATURE SENSOR	X																									X	X				X				X		
DISCHARGE AIR TEMPERATURE	X																									X	X				X				X		
DISCHARGE AIR HUMIDITY		X																								X	X				X				X		
SUPPLY AIRFLOW				X																						X	X				X				X		
DISCHARGE AIR DUCT DETECTOR														X														X	X					X	X		2
DISCHARGE AIR PRESSURE SENSOR		X																								X	X				X				X		
RETURN AIR SMOKE DETECTOR														X														X	X					X	X		2
RETURN AIR HUMIDITY		X																								X	X				X				X		
RETURN AIR TEMPERATURE	X																									X	X				X				X		
RETURN AIR CO2							X																			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					X		
RETURN FAN VFD FAULT														X														X						X	X		
RETURN FAN SPEED CONTROL																			X												X				X		
RETURN FAN HIGH-PRESSURE STATIC PRESSURE SWITCH								X																				X	X					X	X		1
RETURN FAN DISCHARGE STATIC PRESSURE TRANSMITTER			X																							X	X				X				X		
EXHAUST AIR DAMPER						X																									X				X		
EXTERIOR EXHAUST DISCHARGE DAMPER													X										X					X	X					X	X		1
SPACE TEMPREATURE SENSOR											X																										

NOTES:
1. THIS POINT SHALL BE HARDWIRED TO FAN SHUTDOWN.
2. SMOKE DETECTORS SHALL HAVE STAND ALONE RELAYS (HTRI's) HARD WIRED TO BUILDING FIRE ALARM SYSTEM BY OTHERS. WHEN SMOKE DETECTORS ARE ENGAGED, THERE SIGNALS TO INITIATE THE SHUTDOWN FUNCTION OF THE RTU
3. PROVIDE A FULL BACNET CONNECTION TO EACH VFD. PROVIDE ALARM STATUS, OPERATING AMPS, HP, SPEED, ETC ON THE SYSTEM GRAPIC

ATTENTION:
THESE CONTROL SHEETS SHOW SEQUENCE OF OPERATION THAT FIELD START UP SHALL PROGRAM INTO EQUIPMENT WITH FACTORY CONTROLS.

ALTERNATIVE BID IS FOR CONTROLS CONTRACTOR TO BE HIRED TO TIE INTO DISTRICT JOHNSON CONTROLS METESYS SYSTEM.

RETURN/RELIEF FAN VFD CONNECTIONS TYPICAL OF ONE VFD (TO CONTROL TWO RETURN FANS)



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. SUPPLY FAN VFD IS CONTROLLED BY SPACE TEMPERATURE.
5. RETURN FAN VRF IS CONTROLLED BY RETURN DUCT STATIC PRESSURE
6. BAS SHALL BE FULLY ACCESSIBLE BY MOBILE.
7. ECM MOTORS CAN BE USED IN LIEU OF VFDS
8. IN UNOCCUPIED MODE, OUTSIDE AIR DAMPER AND RELIEF DAMPER TO CLOSE, AND SYSTEM TO BE 100% CIRCULATION IN NIGHT SET BACK MODE.

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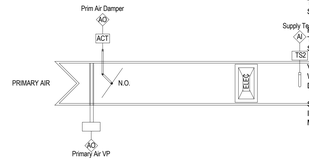
MECHANICAL RTU CONTROL DIAGRAM

M-302
BIDDING

CONTROL POINT SUMMARY FOR VAV UNIT (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			
SUPPLY AIR DISCHARGE TEMPERATURE			x		x					x					x			
PRIMARY AIR DAMPER CONTROL				x	x					x					x			
VENTILATION AIR FLOW (CFM)			x		x					x					x			

NOTES:	
1	



BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (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. THE BAS SHALL UTILIZE THE INPUT FROM THE LIGHTING OCCUPANCY SENSORS IN ALL ROOMS ASSOCIATED WITH AN INDIVIDUAL VAV TO DETERMINE IF THE VAV IS IN OCCUPIED OR UNOCCUPIED MODE. IF VAV SERVES A ROOM WHICH HAS NO LIGHTING OCCUPANCY SENSOR, OCCUPIED AND UNOCCUPIED MODE FOR THAT ROOM SHALL BE ESTABLISHED VIA A BUILDING SCHEDULE. BAS CONTRACTOR (DELTA) SHALL PROVIDE BACNET CONTROLLER FOR VAV.

OCCUPANCY MODE:
THE OCCUPANCY MODE SHALL BE COMMUNICATED OR HARDWIRED TO THE VAV VIA A BINARY INPUT. VALID OCCUPANCY MODES FOR THE VAV 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 ENFORCED. 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 UNOCCUPIED HEATING OR COOLING SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE VAV SHALL MODULATE FULLY CLOSED.

OCCUPIED BYPASS:
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 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	74.0 DEG. F
UNOCCUPIED COOLING SETPOINT	85.0 DEG. F
OCCUPIED STANDBY COOLING SETPOINT	78.0 DEG. F
OCCUPIED MIN COOLING AIRFLOW SETPOINT	SEE TU SCHEDULE
OCCUPIED MAX COOLING AIRFLOW SETPOINT	SEE TU SCHEDULE

THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. 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	68.0 DEG. F
UNOCCUPIED HEATING SETPOINT	60.0 DEG. F
OCCUPIED STANDBY HEATING SETPOINT	65.0 DEG. F
OCCUPIED MIN HEATING AIRFLOW SETPOINT	SEE TU SCHEDULE
OCCUPIED MAX HEATING AIRFLOW SETPOINT	SEE TU 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:
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:

REHEAT MODE:
THE SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE HOT WATER VALVE SO THAT THE DISCHARGE AIR TEMPERATURE IS CONSISTENT WITH THE VAV'S HOT WATER HEATING COIL SCHEDULE.

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 TU SCHEDULE).

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.

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VAV BOX CONTROL DIAGRAM

CONTROL POINT SUMMARY FOR HEATERS (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:																		

INFRARED HEATER Sequence of Operations
A. Provide a space temperature sensor to monitor the temperature of the room through the BAS.

ELECTRICAL/TELECOM ROOM MONITORING Sequence of Operations
A. Provide a space temperature sensor to monitor the temperature of the room through the BAS.

CABINET UNIT HEATER ELECTRIC Sequence of Operations
A. General: A unit mounted thermostat will cycle the staged electric heating to maintain an adjustable setpoint.

TYPICAL FOR CABINET HEATER

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MISC.

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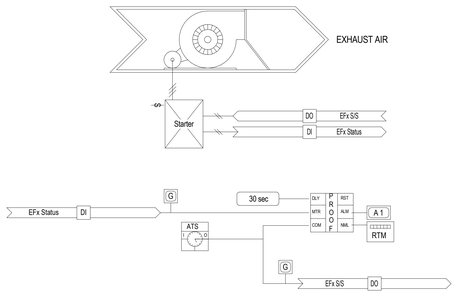
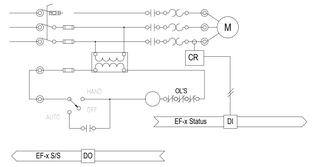
MECHANICAL VAV AND ELECTRIC HEATER CONTROL DIAGRAM

M-303
BIDDING





Typical Exhaust Fan Starter

Exhaust Fans Sequence of Operations

A. Toilet and General Exhaust fans shall be controlled by a time clock the starting and stopping of these fans as follows.
   1. Start/Stop: time clock shall command the operation of the Exhaust fan and it shall run continuously during the occupied period.

B. T-Stat controlled Exhaust fans shall be controlled by a thermostat to maintain a maximum of 85°F. Whenever the fan runs, its associated isolation damper shall open. Whenever the fan stops, the dampers shall close.

B. Wall switch controlled exhaust fans shall be controlled by room wall switch/vacancy sensor so when light is on, fan is on.

C. For kitchen hood exhaust fan, wall switch next to hood to turn fan on/off

Wall Switch Controlled Exhaust Fan
- EF-A102
- EF-B100

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MECHANICAL EXAUST FAN CONTROL DIAGRAM

M-304
BIDDING

RTU Single Zone - Gas Heat and DX Cooling Sequence of Operations

A. General: The air handler shall be fully controlled by the BAS. For details on the referenced logic strategies refer to item 3.2 Air Handling Units General: Logic Strategies. Air handler control logic strategies shall include Air handler control logic strategies shall include:
   1. scheduled occupancy with optimum preoccupancy
2. night purge
3. sequenced heating and cooling

B. Space Temperature Setpoints: Three setpoints shall apply. Normal (72°F adj.)), setback heating (65°F (adj.)), and setback cooling (85°F). These three values shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input). During the normal periods, separate heating and cooling setpoints shall be calculated.
   1. Normal space cooling setpoint: shall be the normal space temperature plus 2°F (adj.)
2. Normal space heating setpoint: shall be the normal space temperature minus 2°F (adj.).
3. The space temperature setpoints above shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input).
C. Discharge Air Setpoint: The discharge air setpoint will be reset by space temperature on a ratchet loop that increases and decreases the setpoint based upon variance from space temperature.
   1. Heating: The discharge air temperature will be reset from 68°F (adj.) to a fixed maximum of 95°F (adj.) based upon the variance of space temperature from setpoint.
2. Cooling: The discharge air temperature will be reset from 68°F (adj.) to a fixed minimum of 55°F (adj.) based upon the variance of space temperature from setpoint.
3. The BAS shall shut down the RTU through software and require a manual reset if the discharge air temperature falls below 40°F (adj.) for more than 1 minute.
D. Supply/ Return Fan Enable: BAS shall control the fans as follows:
   1. Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied and night purge modes.] Unit shall cycle on as needed during the night setback mode.
2. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of either fan, the BAS shall enunciate an alarm as specified above.
E. Economizer Dampers: BAS shall control the dampers as follows:
   1. Closed: When AH is deenergized, dampers shall remain in their "off" positions. When the unit is energized during the unoccupied period, the minimum damper position/ flow rate shall be 0% / 0cfm.
2. Minimum Damper Position (constant): During the occupied period, applicable RA and OA dampers shall never be positioned less than the position set for the required minimum OA ventilation rate. This minimum position shall be determined by the Test & Balance Contractor. The BAS contractor shall coordinate with the T&B contractor and input the minimum position into the applicable controller logic.
3. Airside Economizer: BAS shall modulate the mixing dampers to provide "free cooling" when conditions merit. The free cooling shall generally be staged before any mechanical cooling. While conditions merit, dampers shall be modulated in a PID loop to maintain the mixed air temperature at its setpoint. The mixed air temperature setpoint shall be equal to the discharge air temperature setpoint - 2°F. Economizer logic shall remain enabled during night purge where applicable. Economizer mode shall be active while the unit is energized AND outside air temperature falls below the switching setpoint of 70°F (adj.) (with 5F cycle differential). Economizer mode shall be inactive when outside air temperature rises above switching setpoint, dampers shall return to their scheduled minimum positions as specified above.
F. Gas Heat:
   1. The staging of the gas heater will be controlled locally by an integral control loop supplied with the RTU. The BAS will have the ability to reset the discharge air setpoint.
2. Or, the gas heater will be controlled via a PID loop to maintain the discharge temperature at the heating discharge temperature setpoint. The heating discharge temperature setpoint equal the discharge air temperature setpoint -2°F.
G. DX Cooling:
   1. The staging of the DX cooling system will be controlled locally by a integral control loop supplied with the RTU.
2. Or, the DX system will be controlled via a PID loop to maintain the discharge air temperature at the discharge temperature setpoint.
H. Diagnostics: BAS execute the following diagnostic strategies as detailed in item 3.2 Air Handling Units General: Diagnostics. Diagnostic Logic strategies shall include:
   1. Run Time Limit
2. DP Transmitter Filter Monitoring

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ROOF TOP UNIT (RTU-53A) - SINGLE ZONE - ALTERNATIVE BID

	INPUTS: ANALOG: TEMPERATURE SENSOR	HUMIDITY SENSOR	PRESSURE	AIRFLOW MEASUREMENT	SETPOINT ADJUST	POSITION FEEDBACK	OTHER	INPUTS: DIGITAL: DIFFERENTIAL PRESSURE SWITCH	FLOW SWITCH	CURRENT SWITCH	THERMOSTAT	HUMIDISTAT	STATUS	ALARM	OVERRIDE	OTHER	OUTPUTS: ANALOG: MODULATING	SETPOINT	VARIABLE SPEED	OTHER	OUTPUTS: DIGITAL: ENABLE/DISABLE	START/STOP	OPEN/CLOSE	ON/OFF	OTHER	SYSTEM FEATURES: ALARMS: HIGH/ANALOG	LOW/ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	SYSTEM FEATURES: MISCELLANEOUS: RUNTIME	TREND	OPTIMAL START	SCHEDULING	PAGING	SYSTEM GRAPHIC	CUSTOM REPORT	NOTES
OUTSIDE AIR TEMPERATURE	X																													X	X		X			
OUTSIDE AIR HUMIDITY		X																												X	X		X			
OUTSIDE AIR DAMPER						X																								X	X		X			
EXTERIOR OUTSIDE INCOMING AIR DAMPER													X									X								X	X		X		1
BUILDING PRESSURE			X																									X	X			X				
FILTER DIFFERENTIAL PRESSURE TRANSMITTER			X																									X				X				
TEMPERED AIR STATIC PRESSURE TRANSMITTER			X																									X				X				
TEMPERED AIR TEMPERATURE	X																											X	X			X				
SAFETY LOW LIMIT THERMOSTAT - 40 DEGREES F											X																			X	X					
COOLING COIL LEAVING TEMPERATURE SENSOR	X																											X	X			X				
SUPPLY FAN LOW-PRESSURE STATIC PRESSURE SWITCH								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	
GAS HEAT BURNER LEAVING TEMPERATURE SENSOR	X																											X	X			X				
DISCHARGE AIR TEMPERATURE	X																											X	X			X				
DISCHARGE AIR HUMIDITY		X																										X	X			X				
SUPPLY AIRFLOW				X																								X	X			X				
DISCHARGE AIR DUCT DETECTOR														X																	X	X			X	X	2
RETURN AIR SMOKE DETECTOR														X																	X	X			X	X	2
RETURN AIR HUMIDITY		X																										X	X			X				
RETURN AIR TEMPERATURE	X																											X	X			X				
RETURN AIR CO2							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					X	X	
RETURN FAN SPEED CONTROL																			X														X				
RETURN FAN HIGH-PRESSURE STATIC PRESSURE SWITCH								X																						X	X			X	X	1
RETURN FAN DISCHARGE STATIC PRESSURE TRANSMITTER		X																										X	X			X				
EXHAUST AIR DAMPER						X																										X					
EXTERIOR EXHAUST DISCHARGE DAMPER													X									X								X	X			X	X	1
SPACE TEMPREATURE SENSOR											X																										

NOTES:
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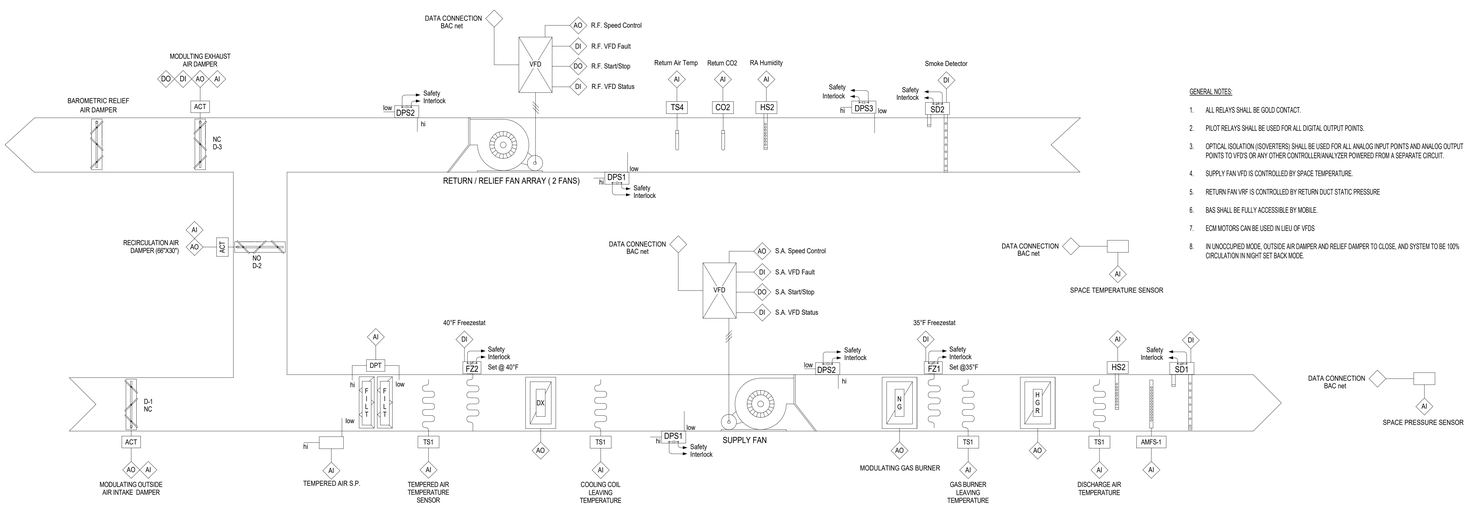

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8. IN UNOCCUPIED MODE, OUTSIDE AIR DAMPER AND RELIEF DAMPER TO CLOSE, AND SYSTEM TO BE 100% CIRCULATION IN NIGHT SET BACK MODE.

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DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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SIGNATURE
DATE

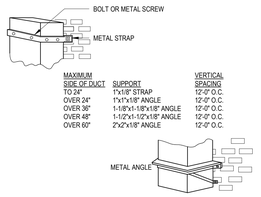
REVISIONS

NO.	DESCRIPTION	DATE

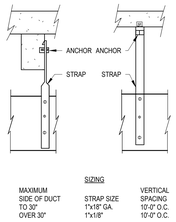
PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	RK
CHECKED BY	MB

ALTERNATIVE BID RTU CONTROL DIAGRAM

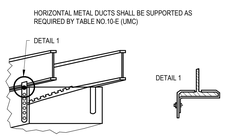
M-305
BIDDING



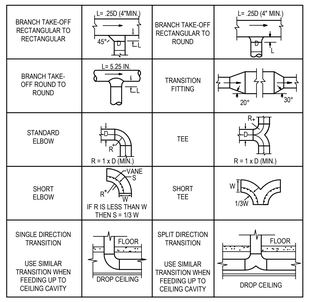
1 M-400 **DUCT SUPPORT DETAIL**
NOT TO SCALE



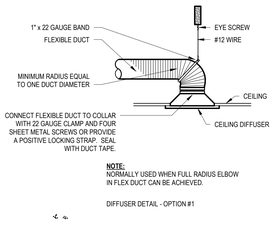
2 M-400 **DUCT SUPPORT DETAIL**
NOT TO SCALE

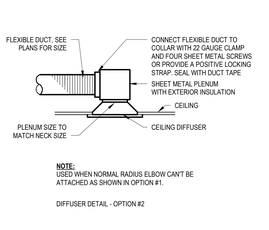


3 M-400 **DUCT SUPPORT DETAIL**
NOT TO SCALE

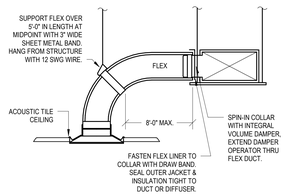


4 M-400 **TYPICAL DUCT TAKE-OFFS DETAIL**
NOT TO SCALE

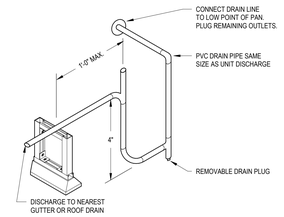




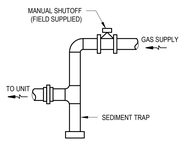
5 M-400 **TYPICAL DIFFUSER AND GRILLE CONNECTIONS**
1/2" = 1'-0"



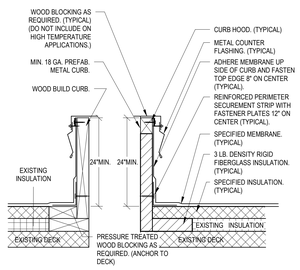
6 M-400 **CEILING DIFFUSER TO DUCT CONNECTION DETAIL**
NOT TO SCALE



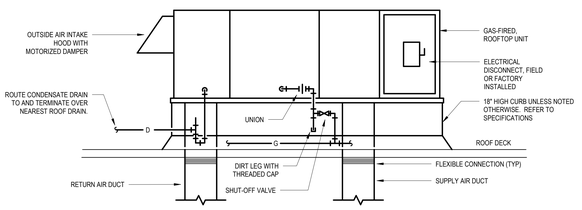
7 M-400 **CONDENSATE DRAIN FROM RTU**
NOT TO SCALE



8 M-400 **GAS CONNECTOR DETAIL**
NOT TO SCALE



9 M-400 **ROOF CURB DTAIL (SINGLE PLY MEMBRANE) DETAIL**
NOT TO SCALE



10 M-400 **ROOFTOP UNIT DETAIL**
NTS

2021 IMC VENTILATION SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR AREA (SF)	OCCUPANCY CLASSIFICATION	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
045B	ROOM	53 SF	STORAGE ROOMS	0	0	0	0.12	6	0	50 CFM	10	0 CFM	EXISTING	
53	ORCHESTRA	2078 SF	MUSIC/THEATER/DANCE	35	65	10	0.06	775	0	4000 CFM	800	0 CFM	EXISTING	-
53A	OFF	80 SF	OFFICE SPACES	5	1	5	0.06	10	0	50 CFM	10	0 CFM	EXISTING	-
53B	OFF	85 SF	OFFICE SPACES	5	1	5	0.06	10	0	50 CFM	10	0 CFM	EXISTING	-
53C	ENSEMBLE	252 SF	OFFICE SPACES	5	4	5	0.06	35	0	200 CFM	40	0 CFM	EXISTING	-
53D	ENSEMBLE	162 SF	OFFICE SPACES	5	3	5	0.06	25	0	150 CFM	30	0 CFM	EXISTING	-
53E	STOR	213 SF	STORAGE ROOMS	0	0	0	0.12	26	0	150 CFM	30	0 CFM	EXISTING	-
A100	VESTIBULE	69 SF	NO REQUIREMENTS	0	0	0	0.00	0	0	160 CFM	0	0 CFM	EWH A100	-
A101	CORRIDOR	760 SF	CORRIDORS	0	0	0	0.06	46	0	400 CFM	80	0 CFM	VAV A101	-
A101A	IDF-1	65 SF	STORAGE ROOM (INACTIVE)	0	0	0	0.00	0	0	0 CFM	0	0 CFM	FC A101A	-
A102	TOILET	65 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	70	0 CFM	0	70 CFM		EF A102
A103	AG TECH	969 SF	CLASSROOMS (AGE 5 PLUS)	35	28	10	0.12	396	0	2000 CFM	400	0 CFM	VAV A103	-
A104	BAND	2516 SF	MUSIC/THEATER/DANCE	35	74	10	0.06	891	0	4500 CFM	900	0 CFM	VAV A0104A,B	-
A104A	CORRIDOR	324 SF	CORRIDORS	0	0	0	0.06	19	0	200 CFM	40	0 CFM	VAV 104A	-
A105	STORAGE	198 SF	STORAGE ROOMS	0	0	0	0.12	24	0	150 CFM	30	0 CFM	VAV 105	-
A106	OFFICE	121 SF	OFFICE SPACES	5	1	5	0.06	12	0	100 CFM	20	0 CFM	VAV A108	-
A107	OFFICE	114 SF	OFFICE SPACES	5	1	5	0.06	12	0	100 CFM	20	0 CFM	VAV A107	-
A108	PRAC	139 SF	OFFICE SPACES	5	1	5	0.06	13	0	125 CFM	15	0 CFM	VAV A108	-
A109	PRAC	122 SF	OFFICE SPACES	5	1	5	0.06	12	0	100 CFM	20	0 CFM	VAV A104	-
A110	LIB	91 SF	OFFICE SPACES	5	1	5	0.06	10	0	50 CFM	10	0 CFM	VAV 107	-
A111	PRAC	97 SF	OFFICE SPACES	5	1	5	0.06	11	0	100 CFM	20	0 CFM	VAV 104A	-
A112	PRAC	161 SF	OFFICE SPACES	5	1	5	0.06	15	0	150 CFM	30	0 CFM	VAV A105	-
A113	WOOD SHOP	1887 SF	WOOD/METAL SHOPS	20	30	10	0.18	640	945	3250 CFM	650	1000 CFM	EXISTING	EF B100
A114	STORAGE	173 SF	STORAGE ROOMS	0	0	0	0.12	21	0	125 CFM	25	0 CFM	EXISTING	-
x51A	OFF	88 SF	OFFICE SPACES	5	1	5	0.06	10	0	75 CFM	15	0 CFM	EXISTING	-
x51B	OFF	88 SF	OFFICE SPACES	5	1	5	0.06	10	0	75 CFM	15	0 CFM	EXISTING	-
x51C	PRAC	54 SF	OFFICE SPACES	5	1	5	0.06	8	0	50 CFM	10	0 CFM	EXISTING	-
x51D	PRAC	54 SF	OFFICE SPACES	5	1	5	0.06	8	0	50 CFM	10	0 CFM	EXISTING	-
x51E	PRAC	54 SF	OFFICE SPACES	5	1	5	0.06	8	0	50 CFM	10	0 CFM	EXISTING	-
TOTALS		11129 SF						3054	1015	16460 CFM	3250	1070 CFM		

GAS FIRED/DIRECT EXPANSION ROOFTOP UNIT SCHEDULE

TAG	LOCATION	REFRIGERANT DATA		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												
		REFRIG. TYPE	SEER/EER/IEER	DB°F	WB°F	DB°F	GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	LAT (WB°F)	INPUT (MBH)	OUTPUT (MBH)	EAT (DB°F)	LAT (DB°F)	AFUE%	CFM	OA CFM	HP	ESP (IN W.C.)	HP	CFM	ESP (IN W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ				
RTU A104	ROOF	R-410A	-/12/20	91	75	-7	243	187	79	65	56	56	400	324	50	97	80	8000 CFM	1600 CFM	7.5	1.00 in-wg	1	8000 CFM	0.50 in-wg	MERV 8	2	123	175	480	3	60	3097	JOHNSON CONTROLS	AE20T32K	ALL

REMARKS:
1. 1 YEAR PARTS WARRANTY.
2. 5 YEAR TOTAL COMPRESSOR WARRANTY.
3. 10 YEAR TOTAL GAS HEAT EXCHANGER WARRANTY.
4. PROVIDE VFDS ON ALL FAN MOTORS. ECM MOTORS WILL BE ACCEPTED AS EQUAL.
5. HOT GAS REHEAT REQUIRED.
6. FULL ENTHALPY ECONOMIZER.
7. MECHANICAL CONTRACTOR TO PROVIDE DISCONNECT FOR EQUIPMENT.
8. DUCT MOUNTED HUMIDITY SENSORS.
9. PROVIDE INTEGRAL TO UNIT POWERED 115V GFI RECEPTACLE.
10. REFER TO CONTROL DRAWINGS COORDINATE FOR ALL CONTROL DAMPERS AND CONTROL POINTS NEEDED. BIDDING CONTRACTOR TO COORDINATE WHAT IS TO BE PROVIDED BY FACTORY AND WHAT IS TO BE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.
11. ROOF CURB TO BE A MINIMUM OF 24".
12. PROVIDE WITH GALVANIZED STEEL DRAIN PAN.

GAS FIRED/DIRECT EXPANSION ROOFTOP UNIT SCHEDULE (ALTERNATIVE BID)

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)	INPUT (MBH)	OUTPUT (MBH)	MAT (DB°F)	LAT (DB°F)	AFUE %	SA CFM	OA CFM	HP	ESP (IN W.C.)	RA CFM	HP	ESP (IN W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ				
RTU 83A	ROOF	R-410A	-/13.1/21	91	75	-7	166	118	79	65	53	52	180	146	50	91	80	3300	660	5	1.00	3300	1	0.50 in-wg	MERV 8	2	40	45	480	3	60	1753	JOHNSON CONTROLS	ZT150S18U2D6	ALL

REMARKS:
1. 1 YEAR PARTS WARRANTY.
2. 5 YEAR TOTAL COMPRESSOR WARRANTY.
3. 10 YEAR TOTAL GAS HEAT EXCHANGER WARRANTY.
4. PROVIDE VFDS ON ALL FAN MOTORS. ECM MOTORS WILL BE ACCEPTED AS EQUAL.
5. HOT GAS REHEAT REQUIRED.
6. FULL ENTHALPY ECONOMIZER.
7. MECHANICAL CONTRACTOR TO PROVIDE DISCONNECT FOR EQUIPMENT.
8. DUCT MOUNTED HUMIDITY SENSORS.
9. PROVIDE INTEGRAL TO UNIT POWERED 115V GFI RECEPTACLE.
10. REFER TO CONTROL DRAWINGS COORDINATE FOR ALL CONTROL DAMPERS AND CONTROL POINTS NEEDED. BIDDING CONTRACTOR TO COORDINATE WHAT IS TO BE PROVIDED BY FACTORY AND WHAT IS TO BE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.
11. ROOF CURB TO BE A MINIMUM OF 24".
12. PROVIDE WITH GALVANIZED STEEL DRAIN PAN.
13. RTU TO BE ALTERNATIVE BID.
14. UNIT TO MAINTAIN 40% RH IN SPACE. SEE CONTROL DRAWINGS FOR MORE INFORMATION.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE WITH ELECTRIC REHEAT

TAG	LOCATION	NECK SIZE (IN.)	DESIGN AIRFLOW			APD (IN WG)	HEATING CAP.	ELECTRICAL DATA					CONTROL TYPE	MANUFACTURER	MODEL NO.	REMARKS
			MAX (CFM)	MIN (CFM)	HEATING (CFM)		KW	EAT (°F)	LAT (°F)	V	PH	HZ				
VAV A101	CORRIDOR 101	10"	500	225	550	0.25	6.0 kW	55	97	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL
VAV A103	AG TECH A103	16"	2000	1000	2000	0.25	20.0 kW	55	92	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL
VAV A104	BAND 104	16"	2250	1100	2225	0.25	22.0 kW	55	92	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL
VAV A104A	CORRIDOR A104A	8"	300	150	300	0.25	3.0 kW	55	95	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL
VAV A104B	BAND A104	16"	2225	1100	2225	0.25	22.0 kW	55	92	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL
VAV A105	CORRIDOR A104A	8"	300	150	300	0.25	3.0 kW	55	95	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL
VAV A107	OFFICE A107	6"	150	75	150	0.25	2.0 kW	58	85	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL
VAV A108	PRAC A108	8"	225	112	225	0.25	2.0 kW	55	95	480	3	60	DDC	JOHNSON CONTROLS	TSS	ALL

REMARKS:
1. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS FOR EQUIPMENT.
2. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
3. VAV BOXES TO BE TIED INTO BUILDING BAS.
4. PROVIDE 1 YEAR WARRANTY OF PARTS AND LABOR POST SUBSTANTIAL COMPLETION.
5. COORDINATE WHICH SIDE CONTROL BOXES IS ON.

ELECTRIC HEATER SCHEDULE

TAG	LOCATION	AIRFLOW (CFM)	HEATING CAPACITY (KW)	ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
				AMPS	V	PH	HZ				
EWH A100	VESTIBULE A100	160	2.0	10	208	1	60	24	INDEECO	WAI	ALL

REMARKS:
1. PROVIDE INTERNAL THERMOSTAT
2. COLOR TO BE DETERMINED AND APPROVED BY AOR.
3. CABINET HEATER TO BE WALL RECESSED MOUNTED .

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	AIR STREAM	MOUNTING TYPE	INLET SIZE (IN)			MANUFACTURER	MODEL NO.	REMARKS
			DIA.	HEIGHT	WIDTH			
A	SUPPLY	CEILING	6"			TITUS	OMNI	1-5
B	SUPPLY	CEILING	8"			TITUS	OMNI	1-5
E	RETURN	DUCT		18"	36"	TITUS	350RL	2,4-6
F	SUPPLY	DUCT		6"	24"	TITUS	301FL	1-5
G	SUPPLY	CEILING	10"			TITUS	OMNI	1-5
H	RETURN	CEILING	6"			TITUS	PAR	2,4-6
J	RETURN	CEILING	8"			TITUS	PAR	2,4-6
K	RETURN	CEILING	16"			TITUS	PAR	2,4-6
L	RETURN	WALL		6"	6"	TITUS	350RL	2,4,5
M	RETURN	WALL		18"	30"	TITUS	350RL	2,4-6
N	RETURN	WALL		34"	42"	TITUS	350RL	2,4,5
O	RETURN	WALL		24"	48"	TITUS	350RL	2,4,5
P	EXHAUST	DUCT		6"	24"	TITUS	350RL	2,4-6

REMARKS:
1. 4 WAY THROW UNLESS OTHERWISE NOTED.
2. PROVIDE ADAPTOR BOOTS AS REQUIRED.
3. PROVIDE WITH MANUAL VOLUME BALANCE DAMPER.
4. COORDINATE FRAME STYLE WITH ARCHITECTURAL PLANS.
5. REFER TO PLAN FOR FACE AND DUCT SIZING.
6. RETURN GRILLE TO HAVE LINED ELBOW BOOT FOR PLENUM RETURN AND SOUND ATTENTUATION.

EXHAUST FAN SCHEDULE

TAG	TYPE	SERVICE	MOTOR DATA						WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			CFM	HP	RPM	V	PH	HZ				
EF-A102	EXHAUST FAN	TOILET A102	70	0.01	838	277	1	60	12	GREENHECK	SP-A50-90VG	1-3
EF-B100	EXHAUST FAN	WOOD SHOP B100	950	0.17	1656	120	1	60	29	GREENHECK	G-095-VG	2-4

REMARKS:
1. EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH.
2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS TO EQUIPMENT.
3. MECHANICAL CONTRACTOR TO PROVIDE WITH MOTOR STARTER AND BACKDRAFT DAMPER AT CONNECTION TO RISER.
4. EXHAUST FAN TO BE TIED INTO BAS AND TO RUN DURING OCCUPIED HOURS.

WEATHER CAP SCHEDULE

TAG	TYPE	CFM	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
CAP-102	EXHAUST CAP	70	9	GREENHECK	GRSR-8	ALL

REMARKS:
1. FLASH CAP WITH 18" CURB ON ROOF.

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ADDITION AND RENOVATIONS TO JUNIOR HIGH

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SIGNATURE

DATE

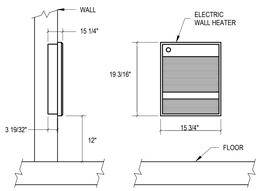
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	BMA
CHECKED BY	MJB

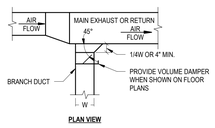
MECHANICAL SCHEDULES AND DETAILS

M-400
BIDDING

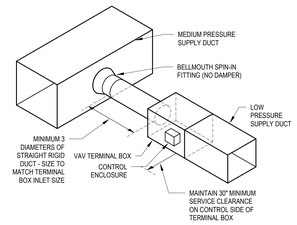


NOTE:
FEILD VERIFY DINENSIONS OF EXACT UNIT PURCHASED

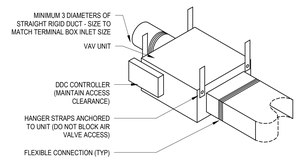
1 M-500 ELECTRIC WALL HEATER (RECESSED)
SCALE: N.T.S.



2 M-500 EXHAUST OR RETURN BRANCH DUCTOWRK DETAIL
SCALE: N.T.S.

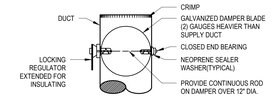


3 M-500 VAV TERMINAL BOX INSTALLATION
SCALE: N.T.S.

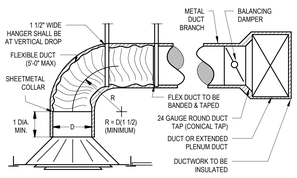


NOTE:
VERIFY CONTROLLER ACCESS ORIENTATION WITH
PLAN TO PROVIDE WORKING CLEARANCE

4 M-500 VAV UNIT DETAIL
SCALE: N.T.S.



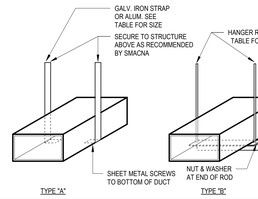
DIFFUSER BALANCING DAMPER



NOTES:
1. CEILING DIFFUSER SHALL BE SQUARE FACE, ROUND NECK & SIMILAR TO; TITUS TMS, CARNES SFTA, OR KRUEGAR 1400.
2. DIFFUSER FRAME WITH EXTENDED PANELS NOT ACCEPTED.
3. PROVIDE LAY-IN TYPE DIFFUSER FRAMES FOR INVERTED T-BAR CEILING.
4. PROVIDE SURFACE MOUNTING FLANGE FOR GYP BOARD CEILING AND OTHER SPECIAL CEILING.
5. FLEX DUCT SHALL BE BANDED AND TAPED. PROVIDE BEAD ON METAL COLLAR IF DUCT SIZES EXCEEDS 12" DIAMETER.
6. LOW PRESSURE DUCTWORK ONLY.
7. OMIT VOLUME DAMPER ABOVE GYPSUM BOARD CEILING AND USE DAMPER BEHIND CEILING DIFFUSER FOR BALANCE.
8. THE HANGERS SUPPORTING FLEX DUCT SHALL BE NOT LESS THAN 1-1/2" WIDE IN DIRECT CONTACT WITH DUCT.

MINIMUM CONICAL TAP METAL GAUGE		
8 AND BELOW	GAUGE - GALV. STOCK	DAMPER GAUGE
TAP DIA. (IN.)	24	22
9 - 14	24	22
15 - 16	22	20
27 - 36	20	18
37 - 50	18	16

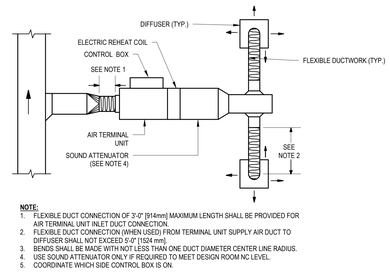
5 M-500 CEILING DIFFUSERS AND BRANCH DUCTS DETAIL
SCALE: N.T.S.



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"	N.A.	3/8"	2"x2"x1/4"

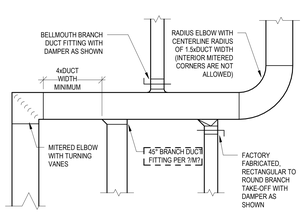
NOTES:
1. FOR SEVERAL DUCTS ON ONE HANGER, TYPE "B" MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX WIDTH OF DUCT SCHEDULE.
2. ON TYPE "A" HANGER, PROVIDE 3 HANGERS AT EACH TAKE-OFF OR BRANCH.

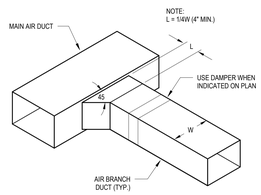
6 M-500 DUCT SUPPORT DETAIL
SCALE: N.T.S.



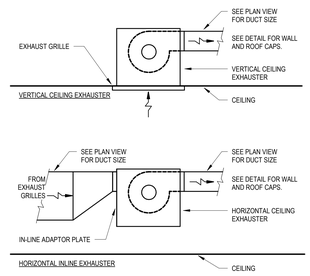
NOTE:
1. FLEXIBLE DUCT CONNECTION OF 3'-0" [914mm] MAXIMUM LENGTH SHALL BE PROVIDED FOR AIR TERMINAL UNIT INLET DUCT CONNECTION.
2. FLEXIBLE DUCT CONNECTION (WHEN USED) FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER SHALL NOT EXCEED 5'-0" [1524 mm].
3. BENDS SHALL BE MADE WITH NOT LESS THAN ONE DUCT DIAMETER CENTER LINE RADIUS.
4. USE SOUND ATTENUATOR ONLY IF REQUIRED TO MEET DESIGN ROOM NC LEVEL.
5. COORDINATE WHICH SIDE CONTROL BOX IS ON.

7 M-500 FLEXIBLE DUCT CONNECTION FOR AIR TERMINAL UNITS DETAIL
NOT TO SCALE

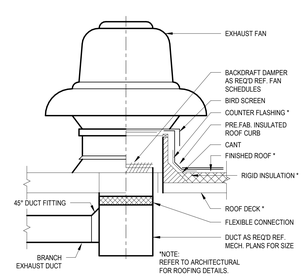




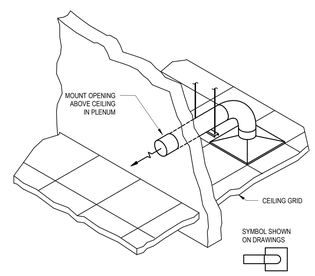
8 M-500 DUCTWORK CONSTRUCTION DETAIL
1/2" = 1'-0"



9 M-500 INLINE EXHAUSTER DETAIL
NOT TO SCALE



10 M-500 EXHAUST FAN DETAIL
NTS



11 M-500 TRANSFER DUCT DETAIL
NOT TO SCALE

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	BMA
CHECKED BY	MJB

MECHANICAL DETAILS

M-500
BIDDING

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
'XXX' 'XXX' WITH DOOR - SURFACE / RECESSED

DENOTES THE FOLLOWING
(DACP) DOOR ACCESS CONTROL PANEL
(FAAP) FIRE ALARM ANNUNCIATOR PANEL
(FACP) FIRE ALARM CONTROL 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
(WP) WEATHERPROOF WITH GFI RECEPTACLE
X DENOTES CIRCUIT NUMBER
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 - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT
DUPLEX RECEPTACLE - CEILING MOUNTED
QUADRUPLEX 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 - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT
QUADRUPLEX RECEPTACLE - FURNITURE MOUNT
FLOOR MOUNTED ELECTRICAL BOX
# DENOTES CIRCUIT NUMBER - TYPICAL

DISCONNECT SWITCH
FUSED DISCONNECT SWITCH
METER SOCKET
TRANSFORMER. WALL / FLOOR MOUNTED
T-XX T-XX INDICATES TRANSFORMER MOUNTED ON EQUIPMENT PAD
JUNCTION BOX WITH WHIP FOR FURNITURE FEED
JUNCTION BOX
PUSHBUTTON SWITCH - MOUNT AT 44" AFF UNLESS NOTED OTHERWISE
XXX DENOTES THE FOLLOWING
(CD) COMPUTER DROP OUT
(D) DOOR BELL STATION
(EPO) EMERGENCY - POWER OFF STATION
(ES) EQUIPMENT SHUTDOWN
(F) FAN SHUTDOWN
AD AUTOMATIC DOOR OPERATOR
(SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT)
GROUND ROD
MARK / NUMBER EQUIPMENT TAG

GENERAL:

DRAWING KEYNOTE SYMBOL
DETAIL NUMBER / SHEET NUMBER BUILDING SECTION
DETAIL NUMBER / SHEET NUMBER BUILDING ELEVATION
DETAIL NUMBER / SHEET NUMBER CALLOUT BOUNDARY
DETAIL NUMBER / SHEET NUMBER - / --- VIEW REFERENCE CALLOUT
+X' - X" MOUNTING HEIGHT DESIGNATION

TECHNOLOGY:

X# — # DENOTES QUANTITY
X DENOTES DEVICE TYPE
TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 4" ABOVE COUNTER/COUNTER BACKSPLASH WHERE PRESENT.
TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 18" AFF UNLESS NOTED OTHERWISE.
TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. FURNITURE MOUNTED.
FLOOR MOUNTED DATA BOX
CEILING MOUNTED DATA BOX
X INDICATES DEVICE TYPE
WAP WAP WIRELESS ACCESS POINT
FREE STANDING OPEN FRAME DATA CABINET.
(HEAVY LINE INDICATES FRONT OF CABINET)
FREE STANDING ENCLOSED FRAME DATA CABINET.
FLOOR MOUNTED / WALL MOUNTED.
(HEAVY LINE INDICATES FRONT OF CABINET)
GROUND BUS BAR

LIGHTING:

NOTE: SHADING ANY OF THE LIGHTING FIXTURE INDICATES UNIT IS WIRED TO AN EMERGENCY OR NIGHT LIGHTING CIRCUIT.
CEILING MOUNTED FIXTURE - SURFACE / RECESSED
1 a A
FIXTURE DESIGNATION
SWITCH LEG. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH AND/OR OCCUPANCY SENSOR
CIRCUIT NUMBER
ILLUMINATED DOME FIXTURE - RECESSED
STRIP LIGHT FIXTURE
LINEAR WALL MOUNTED FIXTURE
CEILING MOUNTED DOWNLIGHT FIXTURE - SURFACE / RECESSED
CEILING MOUNTED DOWNLIGHT FIXTURE - WALL WASH - 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
(2) DOUBLE POLE
(3) 3 WAY
(4) 4 WAY
(DLS) DUAL LEVEL SWITCHING
(K) KEY OPERATED
(P) WITH PILOT LIGHT INDICATION
(T) TIMER SWITCH
X DENOTES SWITCH DESIGNATION (LOWER CASE)
DS DAYLIGHT SENSOR
OS OCCUPANCY SENSOR
VS VACANCY SENSOR
X D DENOTES DIMMING
L LOW VOLTAGE SWITCH STATION
X D DENOTES DIMMING
PC PHOTO-CONTROL
T TIME CLOCK

SECURITY:

S S XX XX SECURITY, ACCESS CONTROL AND DOOR MOUNTING - CEILING / WALL
XX DENOTES THE FOLLOWING
(BIO) BIOMETRIC READER
(CR) CARD READER
(DB) DOORBELL
(DC) DOOR CONTACT
(DP) DOOR POSITION INDICATOR SWITCH
(DR) DOOR RELEASE - PUSHBUTTON
(EL) ELECTROMAGNETIC LOCK
(ES) ELECTRIC STRIKE
(GB) GLASS BREAK DETECTOR
(KE) KEYLESS ENTRY
(KP) KEYPAD - SECURITY SYSTEM
(KS) KEEPER SWITCH
(MD) MOTION SENSOR - DUAL TECHNOLOGY
(PB) PANIC BUTTON
(RM) REQUEST FOR EXIT - MOTION
(RP) REQUEST FOR EXIT - PUSH BUTTON
S S SECURITY CAMERA - CEILING / WALL

SYSTEMS:

P P XX/XX XX/XX PAGING AND SOUND SYSTEM - CEILING / WALL
XX DENOTES THE FOLLOWING
(DP) DEPARTMENTAL PAGING
(HP) HOUSE PAGING
(LM) LOCAL MUSIC
(SM) SOUND MASKING
(TS) TELEVISION SOUND REINFORCEMENT SYSTEM WIRED
(WR) RADIO
XX DENOTES THE FOLLOWING
(CR) CEILING MOUNTED RECESSED SPEAKER
(CS) CEILING MOUNTED SURFACE SPEAKER
(FS) FOOT SWITCH
(MC) MICROPHONE JACK - CEILING MOUNTED
(MD) MICROPHONE JACK - DESK MOUNTED
(MF) MICROPHONE JACK - FLOOR MOUNTED
(MW) MICROPHONE JACK - WALL MOUNTED
(RE) RE-ENTRANT TYPE HORN
(VC) VOLUME CONTROL
(VS) BOLUME CONTROL WITH 6 POSITION STATION SELECTOR
(WR) WALL MOUNTED RECESSED SPEAKER
(WS) WALL MOUNTED SURFACE SPEAKER

NOTIFICATION DEVICES:

W COMBINATION HORN-STROBE - CEILING / WALL MOUNTED
S SPEAKER - CEILING / WALL MOUNTED
W STROBE - CEILING / WALL MOUNTED
W COMBINATION SPEAKER-STROBE - CEILING / WALL MOUNTED

DETECTORS:

SS COMBINED SMOKE-GAS DETECTOR - CEILING MOUNTED
COMBINED SMOKE-HEAT DETECTOR - CEILING MOUNTED
X DUCT SMOKE DETECTOR
X DENOTES THE FOLLOWING
(S) SUPPLY
(R) RETURN
XX GAS DETECTOR
XX DENOTES THE FOLLOWING
(CO) CARBON MONOXIDE
HEAT DETECTOR - CEILING MOUNTED
SMOKE DETECTOR - CEILING MOUNTED
P MANUAL PULL STATION
DOOR HOLDER

FIRE ALARM GENERAL NOTES

1. EXTEND EXISTING SIMPLEX FIRE ALARM SYSTEM WITH NEW EMERGENCY NOTIFICATION PER 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 BIDDING 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.
7. ALL SPEAKER/STROBE DEVICES MAY NOT BE SHOWN AS REQUIRED BY THE LOCAL JURISDICTION HAVING AUTHORITY. 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. ALL WIRING SHALL BE CONCEALED.
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, ALL MECHANICAL EQUIPMENT SHALL SHUT DOWN. RTU REMOTE TEST STATIONS SHALL HAVE LED INDICATOR.
12. ALL JUNCTION BOXES HOUSING FIRE ALARM CABLE SHALL HAVE A RED COVER PLATE. COVER PLATE SHALL HAVE CIRCUIT INFORMATION.
13. ALL FIRE ALARM INITIATING DEVICES AND NOTIFICATION DEVICES SHALL BE LABELED WITH CIRCUIT INFORMATION AND ADDRESSABLE SERIAL CODE AS APPLICABLE.
14. UTILIZE WIRING SIZES AND TYPES AS REQUIRED AND RECOMMENDED BY MANUFACTURER.
15. BATTERY BACK UP SHALL BE SIZED TO COMPLY WITH CODE REQUIREMENT AND LOCAL AMENDMENTS.
16. ALL BATTERIES INSTALLED SHALL BE NEW. FIELD LABEL ALL BATTERIES WITH DATE OF MANUFACTURING.
17. 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 IN THE BID SMOKE DETECTOR IN ROOM HOUSING BOOSTERS IF NOT INDICATED IN FLOOR PLANS.
18. NOTIFICATION CIRCUITS VOLTAGE DROP SHALL NOT EXCEED 5% UNLESS OTHERWISE APPROVED BY THE MANUFACTURER AND/OR AHJ.
19. SLC CIRCUITS SHALL HAVE 20% SPARE CAPACITY FOR FUTURE EXPANSION.
20. 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.
21. COORDINATE RENOVATION REMOVAL, OUTAGES, FIRE ALARM TROUBLE NOTIFICATIONS, AND ZONING REQUIREMENTS WITH AHJ. PROVIDE FIRE ALARM ADJUSTMENTS, PROGRAMMING, AND FIRE WALKS AS REQUIRED FOR RENOVATION.

ELECTRICAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	HV	HIGH VOLTAGE
ABV	ABOVE	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HPS	HIGH PRESSURE SODIUM
AFG	ABOVE FINISHED GRADE	HV	HIGH VOLTAGE
AIC	AVAILABLE INTERRUPTING CURRENT	HVAC	HEATING & VENTILATING - AIR CONDITIONING
ALT	ALTERNATE	HVC	HEATING VENTILATING CONTRACTOR
ALT SW	ALTERNATOR SWITCH	HW	HEAVYWALL
ARCH	ARCHITECT	ID	INDIRECT
ATS	AUTOMATIC TRANSFER SWITCH	IL	INTERLOCK
BFG	BELOW FINAL GRADE	IMC	INTERMEDIATE METAL CONDUIT
BKR	BREAKER	INC	INCANDESCENT
BLDG	BUILDING	IU	IN UNIT
BOL	BUILT IN OVERLOAD	J-BOX	JUNCTION BOX
BPC	BOLTED PRESSURE CONTACT SWITCH	LG	LAY-IN GRID
CATV	CABLE TELEVISION	LTG	LIGHTING
CB	CIRCUIT BREAKER	LV	LOW VOLTAGE
CCTV	CLOSED CIRCUIT TELEVISION	LVT	LINE VOLTAGE THERMOSTAT
CKT	CIRCUIT	MAG	MAGNETIC STARTER
CLG	CEILING	MAN	MANUAL STARTER
CP	CONTROL PANEL	MCC	MOTOR CONTROL CENTER
CS	COMBINATION STARTER	MDP	MAIN DISTRIBUTION PANEL
CT	CURRENT TRANSFORMER	MLO	MAIN LUGS ONLY
DE	DUAL ELEMENT FUSES	MSB	MAIN SWITCHBOARD
DIR	DIRECT	MTD	MOUNTED
DISC	DISCONNECT	NIC	NOT IN CONTRACT
DN	DOWN	NU	NEAR UNIT
EC	ELECTRICAL CONTRACTOR	OU	ON UNIT
ELEV	ELEVATION REFERENCE	P	POLE
EM	EMERGENCY	PB	PUSH BUTTON
EMT	ELECTRIC METALLIC TUBING	PC	PHOTO CONTROL
ENT	ELECTRICAL NON-METALLIC TUBING	PE SW	PNEUMATIC SWITCH
EOL	END OF LINE RESISTOR	PEND	PENDANT
EP	EXPLOSION PROOF	PLBG	PLUMBING CONTRACTOR
EWC	ELECTRIC WATER COOLER	PNL	PANEL
F	FLUSH	R	RELAY
FAAP	FIRE ALARM ANNUNCIATOR PANEL	REC	RECESS
FACP	FIRE ALARM CONTROL PANEL	RECEPT	RECEPTACLE
FBO	FURNISHED BY OTHERS	RM	ROOM
FDR	FEEDER	RVS	REDUCED VOLTAGE STARTING
FIXT	FIXTURE	S	SPLINE
FLA	FULL LOAD AMPS	SEL SW	SELECTOR SWITCH
FLR	FLOOR	SP SW	SPEED SWITCH
FLUOR	FLUORESCENT	SURF	SURFACE
FS	FLOW SWITCH	SW	SWITCH
FVNR	FULL VOLTAGE NON-REVERSING	TC	TIME CLOCK
GC	GENERAL CONTRACTOR	TCC	TEMPERATURE CONTROL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER	TCP	TEMPERATURE CONTROL PANEL
GRC	GALVANIZED RIGID CONDUIT	TS	TAMPER SWITCH
GRD	GROUND	TYP	TYPICAL
GYP	GYPSUM BOARD	UG	UNDERGROUND
HID	HIGH INTENSITY DISCHARGE	UNIV	UNIVERSAL
HOA	HAND-OFF-AUTO SWITCH	USS	UNIT SUBSTATION
HP	HORSEPOWER	WP	WEATHERPROOF
HPS	HIGH PRESSURE SODIUM	XFMR	TRANSFORMER

RENOVATION LEGEND

TAG	PLAN SHEET LINETYPE	ONE-LINE LINETYPE	DESCRIPTION
X	———— (light)	———— (light)	EXISTING FIXTURE TO REMAIN
XO	— — — — —	—— · · —— · · ——	EXISTING TO BE REMOVED
XRL	— — — — —	—— · · —— · · ——	EXISTING TO BE RELOCATED
N	————	————	NEW FIXTURE
XNL	————	————	EXISTING FIXTURE IN NEW LOCATION
XRC	————	————	EXISTING TO BE RECIRCUITED

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 ELECTRICAL CONTRACTOR 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. HE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL 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 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, TELEPHONE, AND DATA OUTLETS SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE NEW UNLESS OTHERWISE NOTED.
12. ALL FIRE ALARM SIGNAL DEVICES SHALL BE MOUNTED AT 80" AFF IN ACCORDANCE WITH ADA, UNLESS OTHERWISE NOTED.
13. 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.
14. TELEPHONE AND DATA BOXES, CONDUITS, AND WIRING/CABLE SHALL BE PROVIDED BY EC. SECURITY DEVICES SHALL BE PROVIDED BY NORTH SCHOOL DISTRICT INSTALLED BY EC. COORDINATE ALL CAMERA LOCATIONS WITH SCHOOL DISTRICT.
15. ALL DATA, SECURITY, AND ACCESS POINT CABLING SHALL BE PER SCHOOL DISTRICT STANDARDS. CABLE TERMINATION JACKS AND CABLING TO BE COLOR-CODED PER NORTH SCOTT SCHOOL DISTRICT'S STANDARDS. (DATA - BLUE, CAMERAS - GREEN) PROVIDE 10' SERVICE LOOPS AT END OF CABLE. DATA AND SECURITY CABLING IN BUILDING ADDITION SHALL BE PULLED TO DATA RACK IN IDF ROOM.
16. CONDUCTORS SUPPLYING CIRCUITS SHALL NOT BE LESS THAN #12 AWG COPPER FOR ANY CIRCUIT.
17. 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.
18. 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.
19. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AND THE LATEST REQUIREMENTS OF ALL CODES AND REGULATIONS.
20. ALL EXTERIOR RECEPTACLES SHALL HAVE METAL COVERS.
21. EC SHALL UPSIZE WIRE AND CONDUIT AS REQUIRED FOR VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH A MAXIMUM OF A 3% VOLTAGE DROP, AND FEEDERS SHALL BE INSTALLED WITH A MAXIMUM OF 2% VOLTAGE DROP. NO ELECTRICAL CIRCUITS SHALL EXCEED A VOLTAGE DROP OF MORE THAN 5%.
22. 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.
23. ALL EXPOSED ELECTRICAL CONDUIT, CABLE, AND JUNCTION BOXES INSTALLED OPEN CEILING CEILINGS 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.
24. TYPE MC CABLE SHALL BE INSTALLED FOR BRANCH CIRCUITS IN ONLY CONCEALED LOCATIONS WITHIN THE SPACE THAT THE LIGHTING, EQUIPMENT, AND/OR RECEPTACLE DEVICES IT SERVES ARE LOCATED, UNLESS NOTED OTHERWISE.

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 RENOVATED 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.

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ELECTRICAL SYMBOLS AND GENERAL NOTES

E-000
BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. ALL DEVICES ARE SHOWN EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

 # KEYNOTES

1. WALL MOUNTED SPEAKER TO BE REMOVED, SALVAGED, AND RETURNED TO THE SCHOOL DISTRICT.
2. TELEPHONE TO BE REMOVED, SALVAGED, AND RETURNED TO THE SCHOOL DISTRICT.
3. WALL MOUNTED PROJECTOR TO BE REMOVED, SALVAGED, AND RETURNED TO THE SCHOOL DISTRICT.
4. SALVAGE AND REUSE EXISTING CORD REELS FOR NEW WOODSHOP.

GYMNASIUM EX-258

NOT IN SCOPE

CONCESSION B108

BOYS JAN B111

BOYS B109

GIRLS B110

TOILET B113

COACHES B114

STOR B115

IDF xE-261

LOBBY B107

CORRIDOR B101

COACHES xE-262

STOR xE-267

TOILET B102

STOR B116

BOYS LOCKER ROOM B104

CORRIDOR B118

OFFICE B105

STOR B103

STOR B106

GYM STORAGE xE-263

LOCKERS xE-266

STOR B117

NOT IN SCOPE

CAFETERIA x54

GYMNATORIUM x55

STOCKER ROOM xE-276 xE-273

CORRIDOR xE-275

STOR xE-274

CLASSROOM xE-270

OFFICE xE-277

CLASSROOM xE-278

NOT IN SCOPE

STOR B119

OFFICE B122

CUST x42

TOILET B123

CORRIDOR xE-265

AEA 041

ART ROOM 041A

NOT IN SCOPE

MECHANICAL 038

'DOOR ACCESS CONTROL PANEL' 'DO NOT USE'

'FACP' 'SN' 'S' 'MDP' 'T-1, 300KVA' 'SSB'

IDF 037

LOUNGE 036

GIRLS B125

BOYS xE-280

NOT IN SCOPE

NOT IN SCOPE

NOT IN SCOPE

NOT IN SCOPE

MODULE A

CORRIDOR EX271

1 ED101A — ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN - MODULE A

1/8" = 1'-0"

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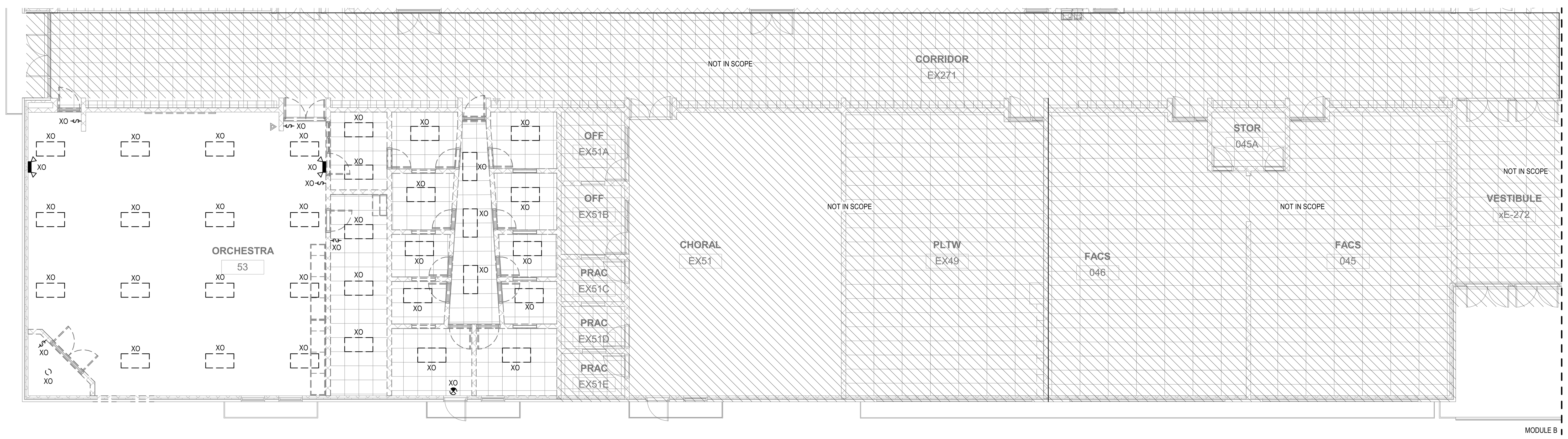
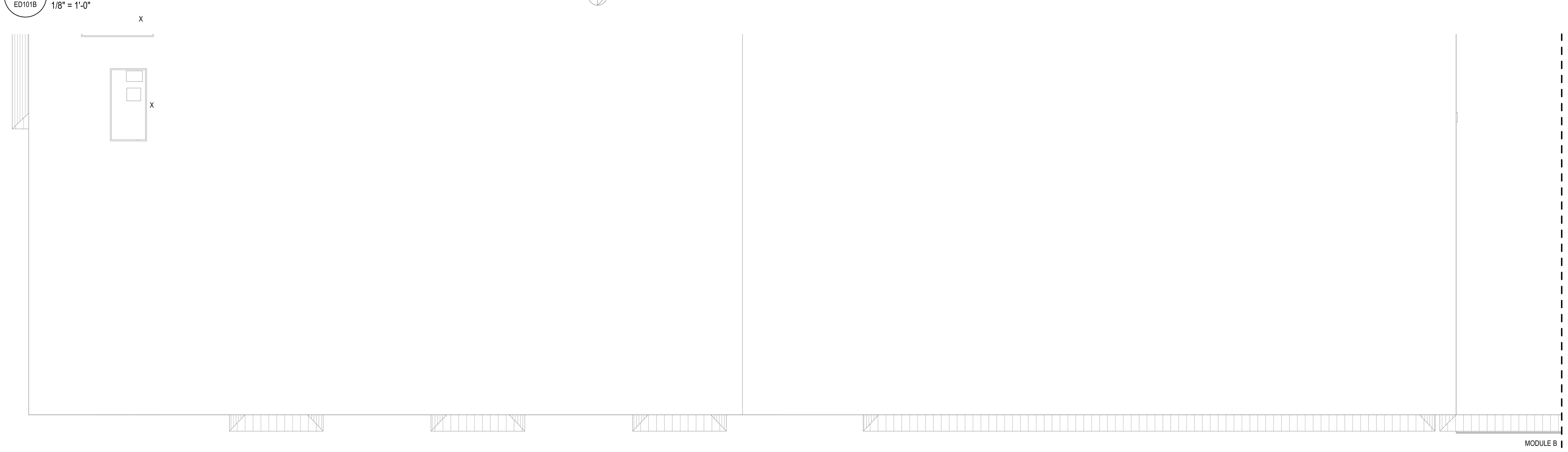
ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN - MODULE A

ED101A

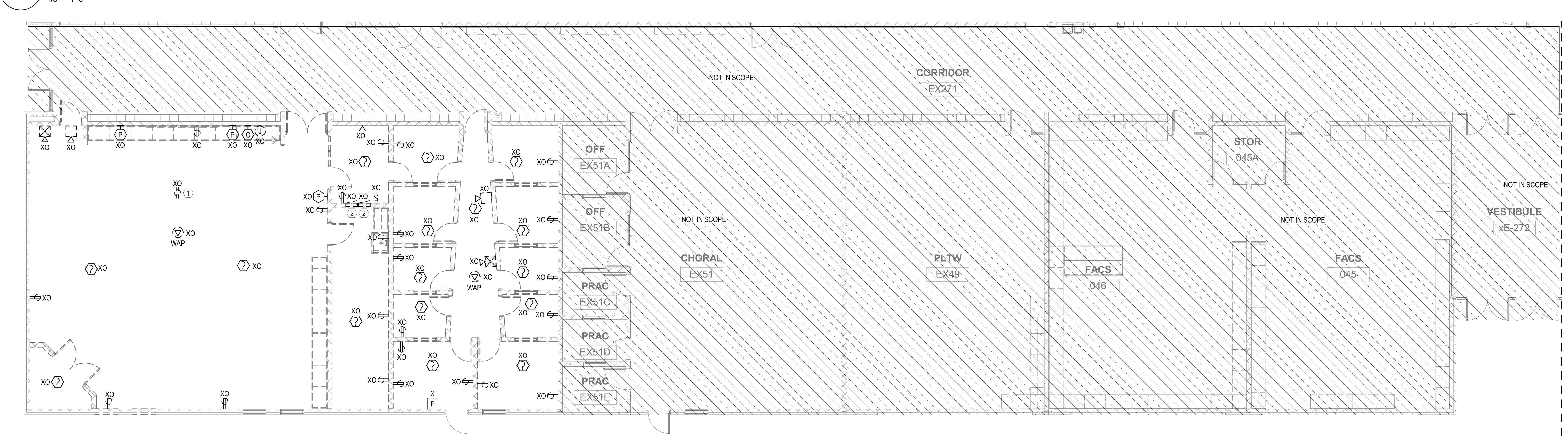
BIDDING



3 ED101B **ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN - MODULE B**
1/8" = 1'-0"



2 ED101B **ELECTRICAL ROOF POWER DEMOLITION PLAN - MODULE B**
1/8" = 1'-0"



1 ED101B **ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN - MODULE B**
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. ALL DEVICES ARE SHOWN EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

#	KEYNOTES
1	CEILING MOUNTED PROJECTOR TO BE REMOVED, SALVAGED, AND RETURNED TO THE SCHOOL DISTRICT.
2	EC TO DEMOLISH MUSIC OFFICE RECEPTACLES MASTER SWITCH EQUIPMENT. VERIFY THAT REMOVAL OF EQUIPMENT IN RENOVATED AREA DOES NOT AFFECT DEVICES IN OTHER AREAS THAT MAY BE FED FROM THE CIRCUIT BEING DISCONNECTED.

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ELECTRICAL DEMOLITION PLANS - MODULE B

ED101B

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GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. ALL DEVICES ARE SHOWN EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

GYMNASIUM
EX-258

NOT IN SCOPE

NOT IN SCOPE

NOT IN SCOPE

CONCESSION
B108

LOBBY
B107

JAN
B111

BOYS
B109

GIRLS
B110

TOILET
B113

COACHES
B114

STOR
B115

IDF
xE-261

CORRIDOR
B101

COACHES
xE-262

STOR
xE-267

TOILET
B102

STOR
B116

BOYS LOCKER ROOM
B104

CORRIDOR
B118

OFFICE
B105

STOR
B103

STOR
B106

GYM STORAGE
xE-263

LOCKERS
xE-266

CORRIDOR
xE-265

AEA
041

ART ROOM
041A

NOT IN SCOPE

STOR
B117

NOT IN SCOPE

OFFICE
B122

CUST
x42

STOR
B119

TOILET
B123

MECHANICAL
038

NOT IN SCOPE

OFFICE
xE-277

CLASSROOM
xE-278

IDF
037

LOUNGE
036

STOBICKER ROOM
xE-276, xE-273

GIRLS
B125

CAFETERIA
x54

GYMNATORIUM
x55

CLASSROOM
xE-270

BOYS
xE-280

NOT IN SCOPE

CORRIDOR
xE-275

STOR
xE-274

NOT IN SCOPE

CORRIDOR
EX271

1 / ED201A — ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN - MODULE A

1/8" = 1'-0"

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ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN - MODULE A

ED201A

BIDDING

1 E-101A ELECTRICAL FIRST FLOOR POWER PLAN - MODULE A

1/8" = 1'-0"

 # KEYNOTES

1. PROVIDE 1" CONDUIT FOR POWER, 1" CONDUIT FOR FIBER OPTIC CABLE AND 1" SPARE CONDUIT FOR HOOP GREENHOUSE. POWER CONDUIT TO TERMINATE IN ELECTRICAL A101A. DATA CONDUIT TO TERMINATE IN IDF 037.
2. PROVIDE CONNECTION FOR FISHEYE CAMERA. COORDINATE LOCATION AND REQUIREMENT WITH SECURITY VENDOR.
3. PENDANT MOUNTED SPEAKER. COORDINATE LOCATIONS AND REQUIREMENTS WITH AV VENDOR.
4. REFER TO DETAIL 3/E-300 FOR CORD REEL DETAIL.
5. PROVIDE PLENUM RATED CORD REEL ENCLOSURE. SIMILAR TO HUBBELL HBLIPRBOX, WITH SELF-RETRACTING CORD REEL CORD REEL AND (2) NEMA 5-20R DUPLEX RECEPTACLES.
6. PROVIDE ELECTRICAL CONNECTION FOR OVERHEAD DOOR AND CONTROLS. EC SHALL COORDINATED EXACT MANUFACTURER REQUIREMENTS AND PROVIDE ALL CONDUIT AND WIRING FOR A FULLY OPERATIONAL SYSTEM.
7. PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR DOOR SECURITY SYSTEM. VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER. REFER TO THE ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION.
8. PROVIDE ELECTRICAL CONNECTION FOR HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
9. COORDINATE POWER AND DATA ROUGH-IN LOCATIONS WITH THE PROJECTOR MANUFACTURER'S MOUNTING RECOMMENDATIONS AND OWNER/ARCHITECT PRIOR TO INSTALLATION.
10. PROVIDE A/V RACK FOR BAND ROOM IN STORAGE ROOM. COORDINATE LOCATION WITH SCHOOL DISTRICT.
11. REFER TO THE ORCHESTRA AND BAND ROOM A/V SCHEMATIC DIAGRAM FOR THE AND CABLING EQUIPMENT IN CAB-1 LOCATED ON SHEET E-400.
12. PROVIDE (3) DATA CABLES AT CABINET FOR CONNECTION TO DATA NETWORK.
13. PROVIDE AN HDMI CONNECTION TO A WALL PLATE FOR THE WALL MOUNTED PROJECTOR.
14. PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTIONS FOR RESTROOM PLUMBING EQUIPMENT AUTOMATIC SENSORS AND EQUIPMENT LOW VOLTAGE TRANSFORMER FOR A FULLY OPERATIONAL SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS. EC SHALL MOUNT LOW VOLTAGE TRANSFORMER FEEDING SENSORS ABOVE ACCESSIBLE LOCATION IN CEILING PROVIDED BY OTHERS IF NOT INTEGRAL TO EQUIPMENT.
15. COORDINATE FINAL LOCATION OF EMERGENCY POWER STOP WITH SCHOOL DISTRICT. REFER TO PANEL BOARD SCHEDULE OF PANEL 'LB' FOR SHUNT TRIP FUNCTION.

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
4. PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS AND CAMERAS. SECURITY DEVICES (ACCESS CONTROL DEVICES, CAMERAS) ARE OWNER PROVIDED, INSTALLED BY EC. VERIFY EXACT REQUIREMENTS WITH DOOR PROVIDER.
5. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
6. FIRE ALARM CONTRACTOR TO VERIFY FINAL SPACING REQUIREMENTS FOR THE NOTIFICATION DEVICES PROVIDED. REVISE THE LAYOUT AS NECESSARY.
7. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL REQUIREMENTS FOR ALL ELECTRICAL AND COMMUNICATION BOXES.

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DATE OF ISSUE	11.10.2023
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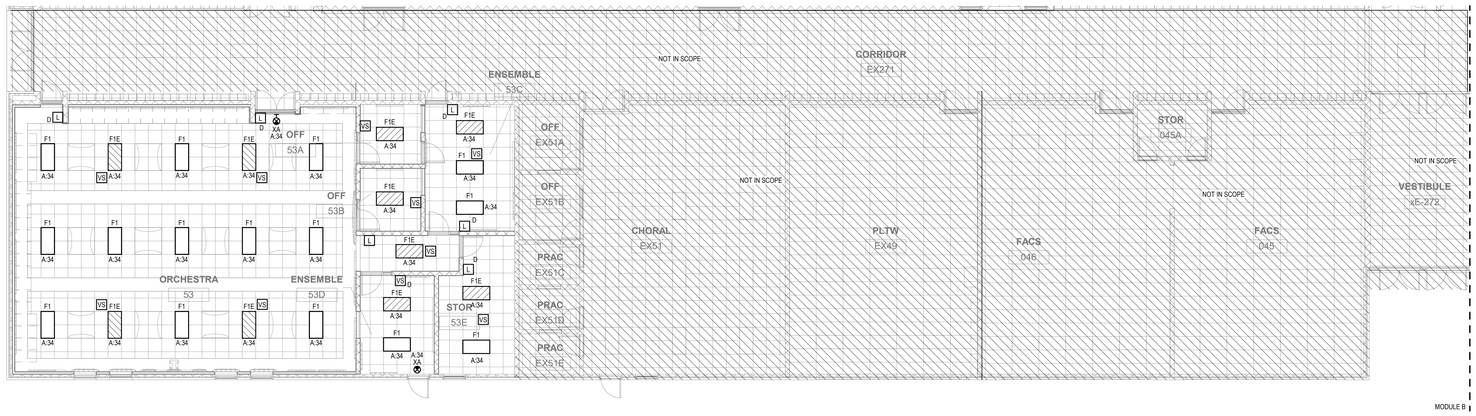
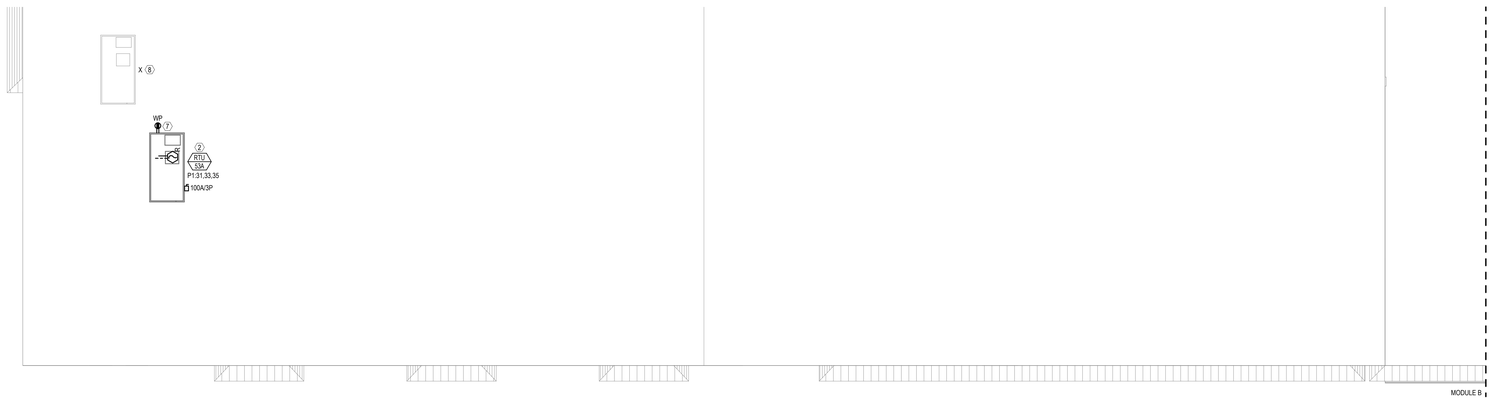
ELECTRICAL FIRST FLOOR POWER PLAN - MODULE A

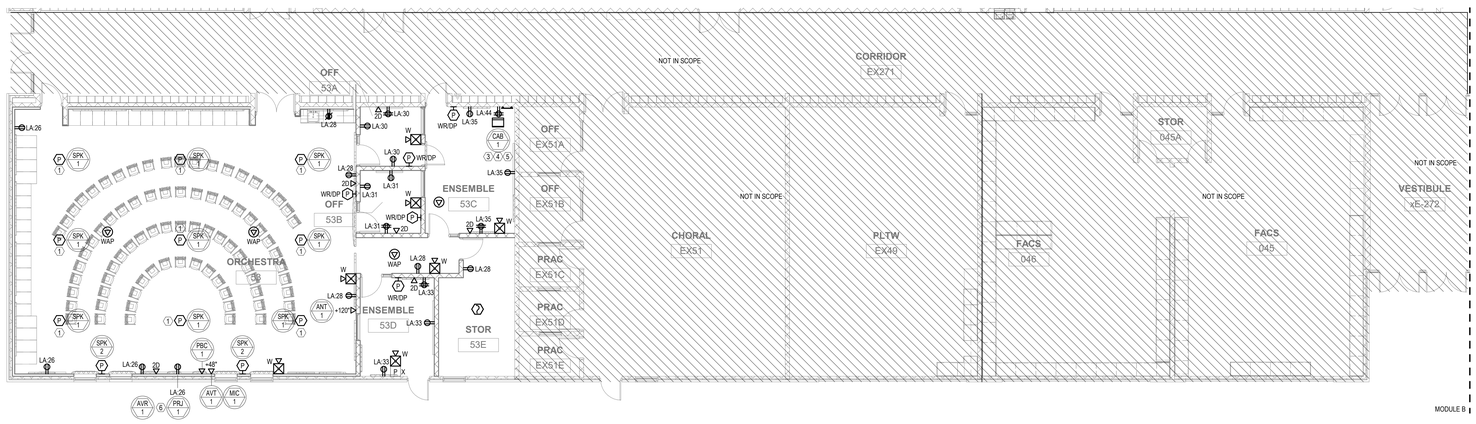
E-101A
BIDDING



3 E-101B — ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE B
1/8" = 1'-0"



2 E-101B — ELECTRICAL ROOF POWER PLAN - MODULE B
1/8" = 1'-0"



1 E-101B — ELECTRICAL FIRST FLOOR POWER PLAN - MODULE B
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
4. PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS AND CAMERAS. SECURITY DEVICES (ACCESS CONTROL DEVICES, CAMERAS) ARE OWNER PROVIDED, INSTALLED BY EC. VERIFY EXACT REQUIREMENTS WITH DOOR PROVIDER.
5. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
6. FIRE ALARM CONTRACTOR TO VERIFY FINAL SPACING REQUIREMENTS FOR THE NOTIFICATION DEVICES PROVIDED. REVISE THE LAYOUT AS NECESSARY.
7. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL REQUIREMENTS FOR ALL ELECTRICAL AND COMMUNICATION BOXES.
8. 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.
9. EMERGENCY FIXTURES TO DIM AND BE CONTROLLED WITH LOCAL FIXTURES. PROVIDE NCESSARY RELAYS TO TURN FIXTURES TO 100% WITH THE LOSS OF POWER.

KEYNOTES

1 PENDANT MOUNTED SPEAKER. COORDINATE LOCATIONS AND REQUIREMENTS WITH A/V VENDOR.
2 ALTERNATE BID FOR THIS EQUIPMENT SHALL INCLUDE THE REQUIRED EQUIPMENT DISCONNECT, CONDUIT, WIRING, BREAKER SIZE TO FEED ALTERNATE EQUIPMENT, AND DUCT SMOKE DETECTOR. REFER TO MECHANICAL SCHEDULES AND MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E-300 FOR ALTERNATE BID EQUIPMENT INFORMATION.
3 PROVIDE A/V RACK FOR ORCHESTRA ROOM IN ENSEMBLE ROOM.
4 PROVIDE (3) DATA CABLES AT CABINET FOR CONNECTION TO DATA NETWORK.
5 REFER TO THE ORCHESTRA AND BAND ROOM A/V SCHEMATIC DIAGRAM FOR THE AND CABLING EQUIPMENT IN CAB-1 LOCATED ON SHEET E-400.
6 COORDINATE POWER AND DATA ROUGH-IN LOCATIONS WITH THE PROJECTOR MANUFACTURER'S MOUNTING RECOMMENDATIONS AND OWNER/ARCHITECT PRIOR TO INSTALLATION.
7 RECEPTACLE IS POWERED BY MECHANICAL EQUIPMENT.
8 MECHANICAL EQUIPMENT IS EXISTING TO REMAIN.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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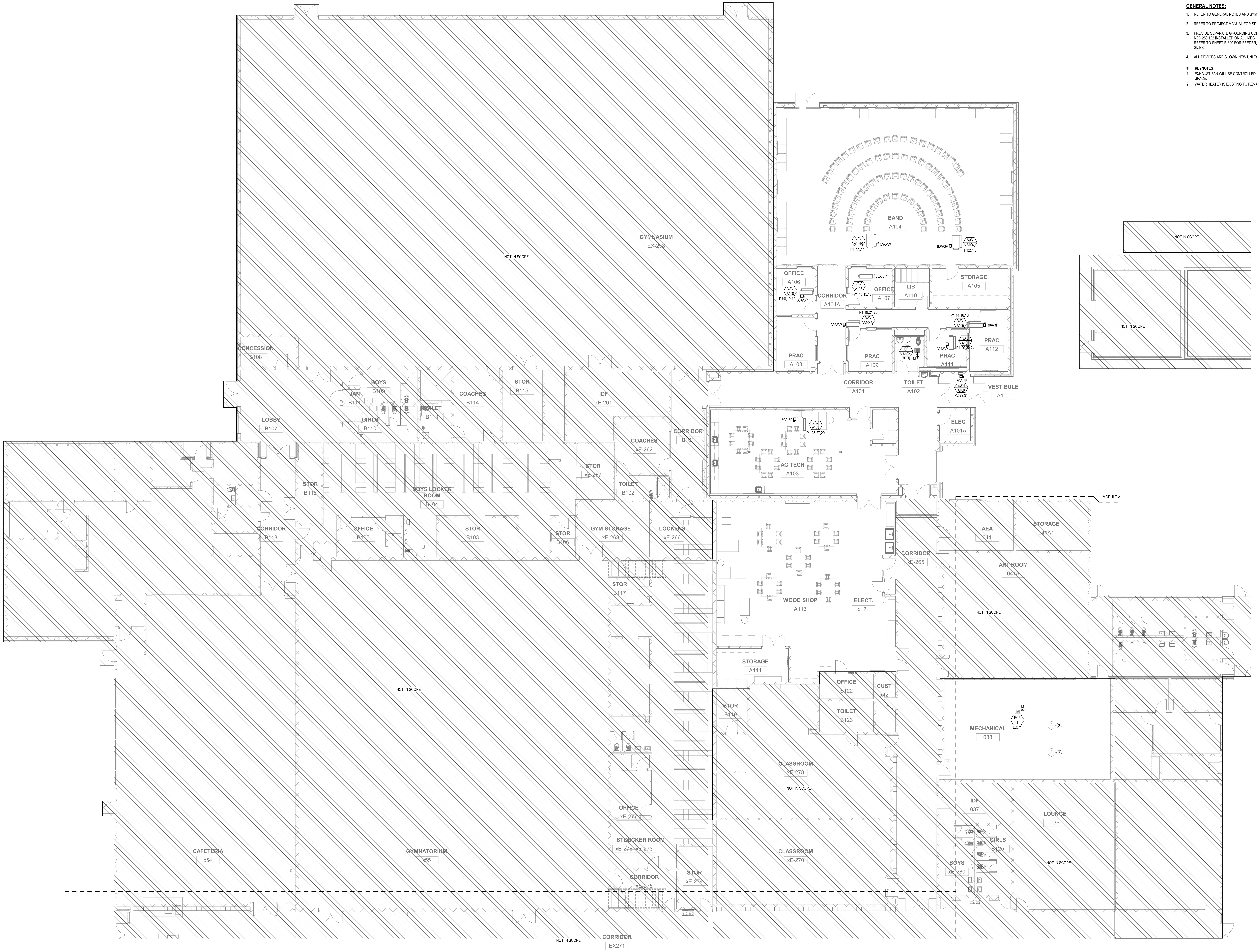
ELECTRICAL FIRST FLOOR PLANS - MODULE B

E-101B
BIDDING



1 E-102A ELECTRICAL FIRST FLOOR MECHANICAL COORDINATION PLAN - MODULE A
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
4. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.

#	KEYNOTES
1	EXHAUST FAN WILL BE CONTROLLED BY LIGHT SWITCH IN SPACE.
2	WATER HEATER IS EXISTING TO REMAIN.

LEGAT ARCHITECTS
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FIRST FLOOR MECHANCAL COORDINATION PLAN - MODULE A

E-102A

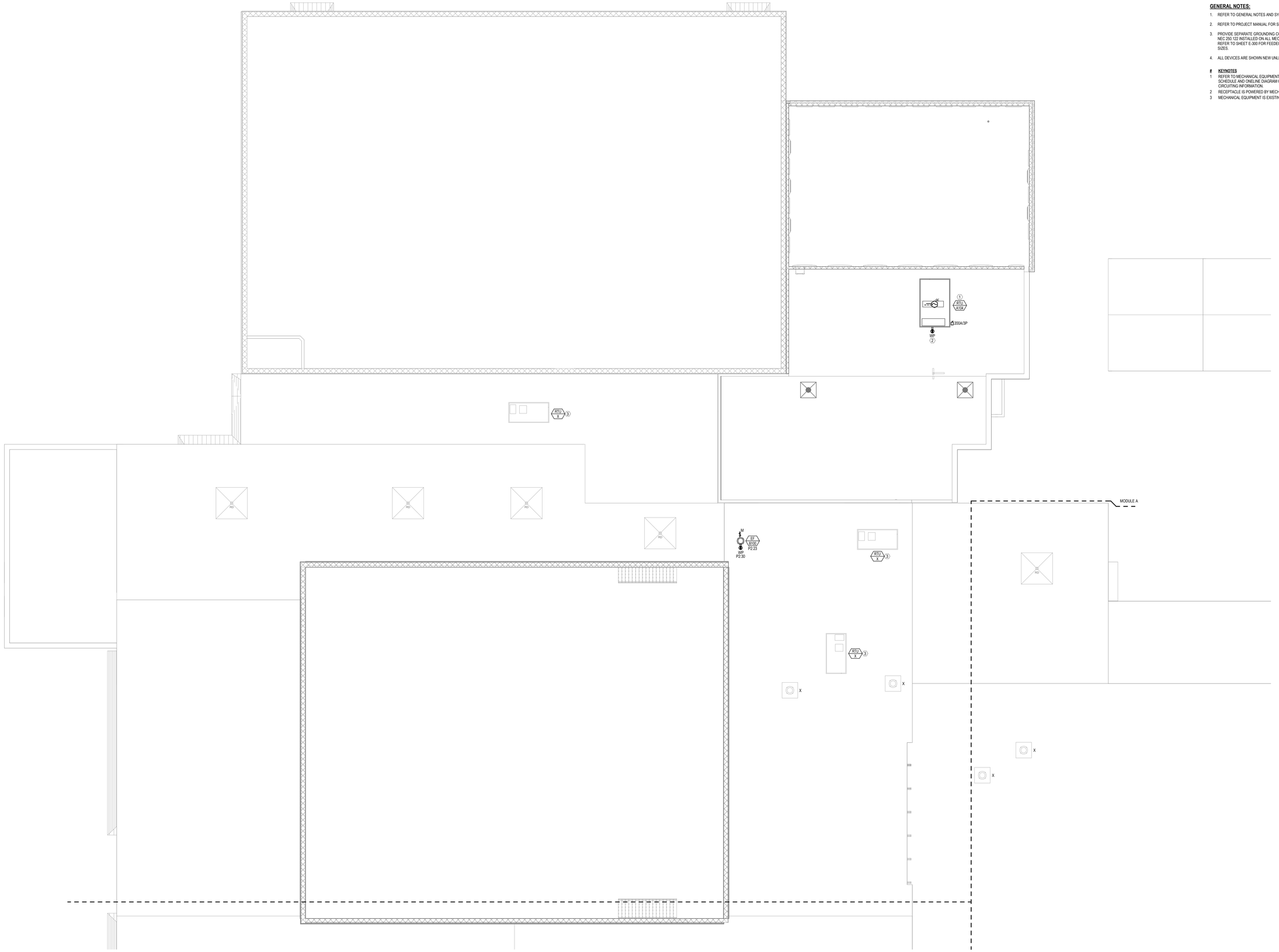
BIDDING

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
4. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.

 # KEYNOTES

1 REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE AND ONELINE DIAGRAM ON SHEET E-300 FOR CIRCUITING INFORMATION.
2 RECEPTACLE IS POWERED BY MECHANICAL EQUIPMENT.
3 MECHANICAL EQUIPMENT IS EXISTING TO REMAIN.



1 E-103A ELECTRICAL ROOF POWER PLAN - MODULE A
1/8" = 1'-0"

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ELECTRICAL ROOF POWER 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 SPECIFICATIONS.
3. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
4. 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.
5. EMERGENCY FIXTURES TO DIM AND BE CONTROLLED WITH LOCAL FIXTURES. PROVIDE NCESSARY RELAYS TO TURN FIXTURES TO 100% WITH THE LOSS OF POWER.

 # KEYNOTES

1 PROVIDE BUILDING MOUNTED PHOTOCELL FOR EXTERIOR LIGHTS. EXACT LOCATION TO BE DETERMINED ON SITE.

2 PROVIDE TIME CLOCK AND RELAY PANEL FOR EXTERIOR LIGHTS CIRCUIT. EXTERIOR LIGHTS TO BE CONTROLLED BY THE TIME-CLOCK AND THE PHOTOCELL.

1 E-201A — ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE A
1/8" = 1'-0"

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

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ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE A

E-201A
BIDDING

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG <1>	DESCRIPTION <2>	LOAD <3>	WIRE/CONDUIT <4>	STARTER <5>	VOLTAGE <6>	LOCAL DISCONNECT <7>	REMARKS
EF A102	EXHAUST FAN	0.01 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	277V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC STARTER PROVIDED BY MC
EF B100	EXHAUST FAN	0.17 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC STARTER PROVIDED BY MC.
EWH A100	ELECTRIC WALL HEATER	2 KW	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	208V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
RTU A104	ROOF TOP UNIT	123 MCA, 175 MOCP	(3) #2/0 AWG (1) #6 AWG EQ. GND. 2" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	UNIT POWERED GFI RECEPTACLE AND DISCONNECT PROVIDED BY MC, INSTALLED BY EC.
RTU A53A	ROOF TOP UNIT (ALTERNATE BID)	62 MCA 80 MOCP	(3) #4 AWG (1) #8 AWG EQ. GND. 1-1/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	UNIT POWERED GFI RECEPTACLE AND DISCONNECT PROVIDED BY MC, INSTALLED BY EC.
VAV -	VARIABLE AIR VOLUME TERMINAL UNIT (A107,A108)	2.0KW	(3) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
VAV -	VARIABLE AIR VOLUME TERMINAL UNIT (A104A,A105)	3.0KW	(3) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
VAV A101	VARIABLE AIR VOLUME TERMINAL UNIT	6.0KW	(3) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
VAV -	VARIABLE AIR VOLUME TERMINAL UNIT (A104,A104B)	22.0KW	(3) #8 AWG (1) #10 AWG EQ. GND. 1" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
VAV A103	VARIABLE AIR VOLUME TERMINAL UNIT	20.0KW	(3) #8 AWG (1) #10 AWG EQ. GND. 1" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	480V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
RCP 1	RECIRCULATION PUMP	0.17 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC

SCHEDULE KEY NOTES

1 VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH EQUIPMENT INSTALLER BEFORE INSTALLING FEEDERS.
2 SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
3 SIZE STARTER/FEEDER DISCONNECT PER FINAL EQUIPMENT REQUIREMENTS.
4 PROVIDE FEEDERS AS INDICATED, VERIFY WITH EQUIPMENT REQUIREMENTS.
5 COORDINATE FINAL STARTER WIRING REQUIREMENTS WITH MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR INSTALLATION STARTER(S) FOR MECHANICAL EQUIPMENT. PROVIDE OVERLOAD PROTECTION (FUSES OR MOTOR CIRCUIT PROTECTOR) PER SPECIFICATIONS, ACTUAL FIELD
6 VERIFY FINAL VOLTAGE AND PHASE REQUIREMENTS OF ALL EQUIPMENT WITH INSTALLER BEFORE INSTALLING FEEDERS.
7 EC TO PROVIDE LOCAL DISCONNECT WITHIN 5'-0" OF EQUIPMENT. NON-STANDARD ITEMS, TIMERS, METERS, INTERLOCKS, ETC.

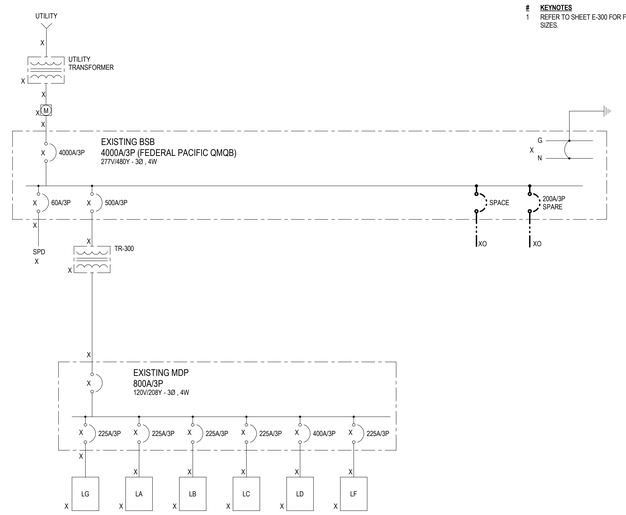
SCHEDULE GENERAL NOTES

1. PROVIDE POWER CONNECTIONS TO ALL ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND OWNER FURNISHED EQUIPMENT. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND POWER REQUIREMENTS. VERIFY ALL TECHNICAL DATA WITH FINAL SHOP DRAWINGS.
2. OVER CURRENT PROTECTION SIZES LISTED ARE FROM MANUFACTURERS AND STANDARD MOTOR DATA. FURNISH FUSES BASED ON FUSE MANUFACTURER'S STANDARDS. ACTUAL FIELD MEASURED FULL LOAD CURRENT, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
3. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE IN FLEXIBLE CONDUIT. PROVIDE COPPER EQUIPMENT GROUND FROM DISCONNECT TO MOTOR CONNECTION.
4. EC TO COORDINATE WITH THE MECHANICAL EQUIPMENT SCHEDULES TO PROVIDE DISCONNECTS FOR THE MECHANICAL EQUIPMENT.

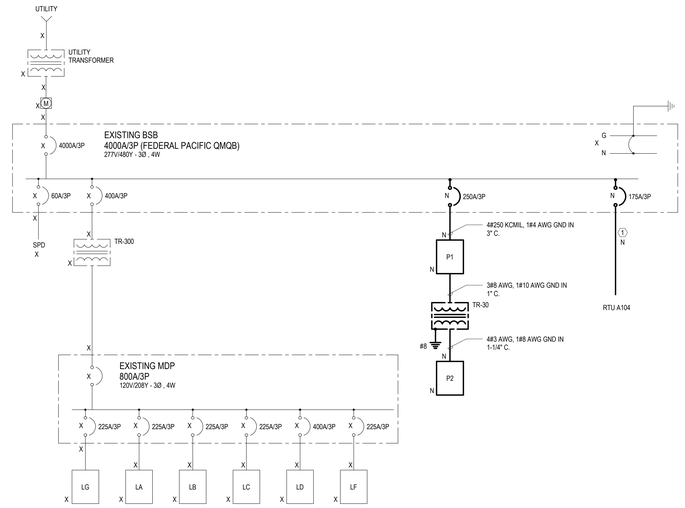
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE K	LIGHT SOURCE CRI	INPUT WATTS	VOLTS	MOUNTING HEIGHT	SPECIFIED FIXTURE MANUFACTURER	SPECIFIED FIXTURE MODEL NO.
F1	2X4 TROFFER	LED	3500	82	39	277	-	LITHONIA COLUMBIA COOPER	2BLT4-4BL-ADSM-GZ1-LP835 LCAT24-35LWG-EDU 2ACZ2-4S-S-UNV-L835-CD1-U
F1E	2X4 TROFFER WITH BACKUP BATTERY	LED	3500	82	39	277	-	LITHONIA COLUMBIA COOPER	2BLT4-4BL-ADSM-GZ1-LP835-EL14L LCAT24-35LWG-EDU-ELL14 2ACZ2-4S-S-UNV-EL10W-L835-CD1-U
F2	RECESSED DOWNLIGHT	LED	3500	80	23	277	-	LITHONIA PRESCOLITE USAI	LDN6-35/20-L06/AR-LSS-MVOLT-GZ1 LTR-6RD-HAL20L-DM1NXEEM-LTR-6RD-T-ML35KBMD-WCWT P4RDF-22L2-35KS-M-WH-NC-UNV-D22
F3E	EXTERIOR CANOPY MOUNTED DOWNLIGHT WITH BACKUP BATTERY	LED	3500	80	44	277	-	LITHONIA PRESCOLITE USAI	LDN6-35/40-L06/AR-LSS-MVOLT-GZ1-E10WCP LTR-6RD-HAL20L-DM1NXEEM-LTR-6RD-T-ML35KBMD-WCWT 6021W-B1-F-13-LRTD6-9040-35KS-40-NC1-277V-DIML6A-EMLW
F4	8' STRIP LIGHT	LED	3500	80	51	277	-	LITHONIA COLUMBIA COOPER	CLX-L96-8000LM-SEF-FDL-MVOLT-GZ1-35K-80CRI MPSB-35ML-CW-EDU 8TSNLED-LD5-83SL-LN-UNV-L835-CD-1-U
F4E	8' STRIP LIGHT WITH BACKUP BATTERY	LED	3500	80	51	277	-	LITHONIA COLUMBIA COOPER	CLX-L96-8000LM-SEF-FDL-MVOLT-GZ1-35K-80CRI-PS1050 MPSB-35ML-CW-EDU-ELL14 8TSNLED-LD5-83SL-LN-UNV-EL14W-L835-CD-1-U
F5	WALLPACK	LED	4000	80	15	277	12'-0"	LITHONIA BEACON COOPER	WDGE2-P2-40K-80CRI-VF-MVOL RWL1-4-BL-15-4K7-4F-UNV-DBT-NXWS16 ENC-SA1A-740-U-T4FT-BZ(277V)
F5E	WALLPACK WITH BACKUP BATTERY	LED	4000	80	15	277	12'-0"	LITHONIA BEACON COOPER	WDGE2-P2-40K-80CRI-VF-MVOLT-E10WH RWL1-4-BL-15-4K7-4F-UNV-DBT-NXWS16F-EH ENC-SA1A-740-U-T4FT-BZ-CBP(277V)
XA	SINGLE FACE EXIT SIGN	LED	0		5	277	-	LITHONIA COMPASS EMERGI-LITE	LQM-S-W-R-MVOLT-EL-N CER LWSNX14R2LA

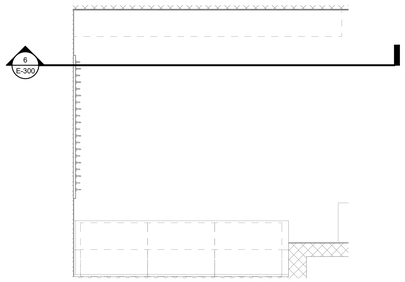
NOTES:
1. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION OF FIXTURE(S) IN THE SPACE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
2. THE FIRST LISTED FIXTURE PRODUCT IN THE APPROVED MANUFACTURERS COLUMN WITH A FULL PRODUCT NUMBER FOR EACH FIXTURE TYPE IS THE BASIS OF DESIGN. ADDITIONAL APPROVED PRODUCT SERIES LISTED MUST MEET ALL THE CHARACTERISTICS LISTED AS THE BASIS OF DESIGN FIXTURE. FINAL PRODUCT APROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.



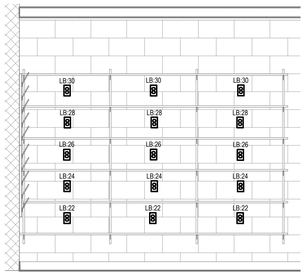
1 E-300 PARTIAL EXISTING ELECTRICAL ONE-LINE DIAGRAM
SCALE: N.T.S.



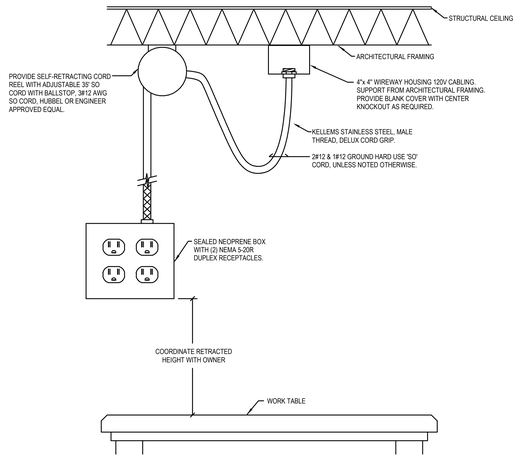
2 E-300 PARTIAL NEW ELECTRICAL ONE-LINE DIAGRAM
SCALE: N.T.S.



5 E-300 STORAGE A114 - ENLARGED VIEW
1/2" = 1'-0"



6 E-300 SECTION CUT - DRILL CHARGING STATION
1/2" = 1'-0"



3 E-300 QUADRUPLEX CORD REEL DETAIL - WOOD SHOP
SCALE: N.T.S.

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
3. PANEL SCHEDULE AND ONELINE ARE FILLED OUT FROM FIELD OBSERVATIONS AND ARE FOR REFERENCE ONLY. EC TO FIELD VERIFY EXISTING BUS RATING, MAIN CIRCUIT BREAKERS, AND AIC RATINGS. CONTRACTORS SHALL VERIFY EXISTING CONDITIONS AND UTILIZE CIRCUITS MADE SPARE BY DEMOLITION, SPARE CIRCUITS, AND AVAILABLE SPACE AS NECESSARY.

 # KEYNOTES
1 REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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F: 309.517.5540
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Davenport, IA 52807
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CIVIL ENGINEER
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www.rtmec.com

SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	GWI
CHECKED BY	NII/CL

ELECTRICAL ONE-LINE, SCHEDULES, AND DETAILS

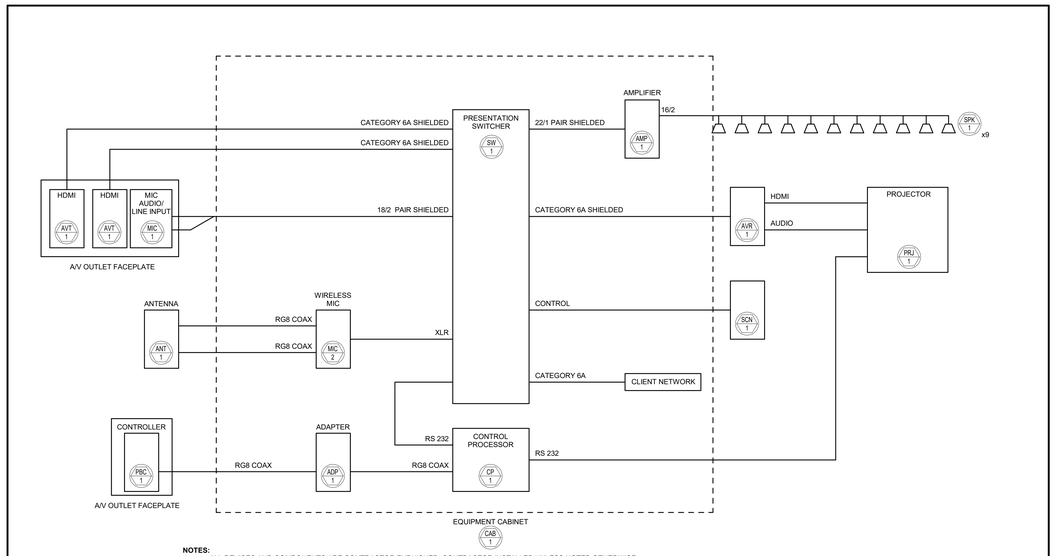
E-300
BIDDING

AUDIO/VIDEO EQUIPMENT SCHEDULE (BAND A104)

ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	ACCESSORIES OR NOTES	APPROVED EQUALS
ADP 1	ADAPTIVE CAPTIVE SCREW TO UTP DONGLE	EXTRON	CSC 6	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
AMP 1	1X500 WATT AMPLIFIER	CROWN	CDi 1000	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
ANT 1	WIRELESS RF ANTENNA	RF VENUE	DFIN	MOUNTING BRACKET	AUDIO TECHNICA SENNHEISER SHURE
AVR 1	A/V TWISTED PAIR RECEIVER	EXTRON	DTP T HWP 4K 331 D	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
AVT 1	A/V TWISTED PAIR TRANSMITTER	EXTRON	DTP HDMI 4K 330 RX	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
CAB 1	VERTICAL EQUIPMENT CABINET	TRIPP LITE	SRWF6 U36	PDU: PDU1415 BLANKING PANEL: EB1	NAVEPOINT MIDDLE ATLANTIC APPROVED EQUAL
CP 1	A/V CONTROL PROCESSOR	EXTRON	IPCP PRO 250 XI		CRESTRON AMX APPROVED EQUAL
MIC 1	MICROPHONE/LINE INPUT - HARD WIRED	RDL SHURE	CONNECTOR: D-J3M MICROPHONE: SM58 WITH XLR CABLLE		AUDIO TECHNICA SENNHEISER APPROVED EQUAL
MIC 2	MICROPHONE - WIRELESS	SHURE	QLXD 124/85 H50 FREQUENCY	LAVALIER QLXD1 AND WL185	AUDIO TECHNICA SENNHEISER APPROVED EQUAL
PBC 1	A/V PUSH BUTTON CONTROLLER	EXTRON	EBP 200	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
PRJ 1	PROJECTOR - CEILING MOUNTED/PENDANT	VIVITEK	DU7295Z		APPROVED EQUAL
SCN 1	PROJECTOR SCREEN, 137" DIAGONAL, 16:10, TENSIONED, WALL MOUNT, MATTE WHITE. PROVIDED REQUIRED MOUNTING HARDWARE.	DA-LITE	70192LS		APPROVED EQUAL
SPK 1	PENDANT SPEAKERS, PAIR, WHITE	EXTRON	SF 26PT	70V TAPPED AT 32 WATTS, PENDANT LENGTH SHALL BE COORDINATED WITH PENDANT LIGHT FIXTURES	JBL APPROVED EQUAL
SW 1	PRESENTER SWITCH	EXTRON	IN1808 - PART NUMBER 60-1615-01		CRESTRON AMX APPROVED EQUAL

GENERAL NOTES:

A. CONTRACTOR SHALL PROVIDE REMOTE POWER SUPPLIES AS REQUIRED IF EQUIPMENT DOES NOT OBTAIN PoE POWER FROM A/V HEAD END EQUIPMENT.
B. CONTRACTOR SHALL PROVIDE NETWORK CONNECTIONS AS PART OF THIS SCOPE OF WORK.
C. CONTRACTOR SHALL PROVIDE ADDITIONAL PATCH PANELS AS REQUIRED, SIZED AS NECESSARY TO ACCOMMODATE CONNECTION OF A/V EQUIPMENT. PATCH PANEL SHALL BE PANDUIT CPPL24WBLY OR COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO PURCHASE AND INSTALLATION.
D. FINAL COLOR OF A/V TRANSMITTERS, RECEIVERS AND SPEAKERS SHALL BE COORDINATED WITH ARCHITECT.
E. PROVIDE LINE/LEVEL OVERRIDE INPUT FOR THE SCHOOL CENTRALLIZED PAGING SYSTEM AND EMERGENCY FIRE ALARM SYSTEM.



NOTES:

1. ALL DEVICES AND COMPONENTS ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED UNLESS NOTED OTHERWISE AS OWNER FURNISHED, OWNER INSTALLED (OFOI) OR OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI).
2. PROVIDE MOUNTING BRACKET FOR A/V RECEIVER.
3. CONTRACTOR SHALL PROVIDE REQUIRED POWER FOR SPEAKERS AND COORDINATE LOCATION AS REQUIRED.
4. PROVIDE AUDIO DUCKING FOR EMERGENCY NOTIFICATIONS.
5. REFER TO A/V EQUIPMENT SCHEDULE.
6. GROUND A/V RACK AND EQUIPMENT.

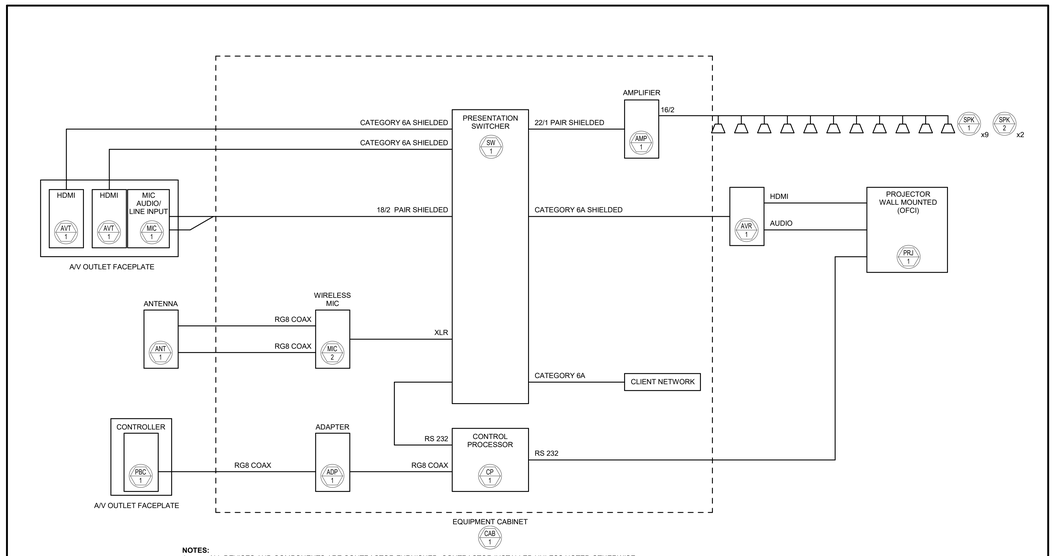
BAND A104 A/V SCHEMATIC DIAGRAM

AUDIO/VIDEO EQUIPMENT SCHEDULE (ORCHESTRA 53)

ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	ACCESSORIES OR NOTES	APPROVED EQUALS
ADP 1	ADAPTIVE CAPTIVE SCREW TO UTP DONGLE	EXTRON	CSC 6	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
AMP 1	1X500 WATT AMPLIFIER	CROWN	CDi 1000	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
ANT 1	WIRELESS RF ANTENNA	RF VENUE	DFIN	MOUNTING BRACKET	AUDIO TECHNICA SENNHEISER SHURE
AVR 1	A/V TWISTED PAIR RECEIVER	EXTRON	DTP T HWP 4K 331 D	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
AVT 1	A/V TWISTED PAIR TRANSMITTER	EXTRON	DTP HDMI 4K 330 RX	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
CAB 1	VERTICAL EQUIPMENT CABINET	TRIPP LITE	SRWF6 U36	PDU: PDU1415 BLANKING PANEL: EB1	NAVEPOINT MIDDLE ATLANTIC APPROVED EQUAL
CP 1	A/V CONTROL PROCESSOR	EXTRON	IPCP PRO 250 XI		CRESTRON AMX APPROVED EQUAL
MIC 1	MICROPHONE/LINE INPUT - HARD WIRED	RDL SHURE	CONNECTOR: D-J3M MICROPHONE: SM58 WITH XLR CABLLE		AUDIO TECHNICA SENNHEISER APPROVED EQUAL
MIC 2	MICROPHONE - WIRELESS	SHURE	QLXD 124/85 H50 FREQUENCY	LAVALIER QLXD1 AND WL185	AUDIO TECHNICA SENNHEISER APPROVED EQUAL
PBC 1	A/V PUSH BUTTON CONTROLLER	EXTRON	EBP 200	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
PRJ 1	PROJECTOR - WALL MOUNTED - OWNER PROVIDED, CONTRACTOR INSTALLED				
SPK 1	PENDANT SPEAKERS, PAIR, WHITE	EXTRON	SF 26PT	70V TAPPED AT 32 WATTS, PENDANT LENGTH SHALL BE COORDINATED WITH PENDANT LIGHT FIXTURES	JBL APPROVED EQUAL
SPK 2	PENDANT SPEAKERS, PAIR, WHITE	EXTRON	SM 3	70V TAPPED AT 32 WATTS	JBL APPROVED EQUAL
SW 1	PRESENTER SWITCH	EXTRON	IN1808 - PART NUMBER 60-1615-01		CRESTRON AMX APPROVED EQUAL

GENERAL NOTES:

A. CONTRACTOR SHALL PROVIDE REMOTE POWER SUPPLIES AS REQUIRED IF EQUIPMENT DOES NOT OBTAIN PoE POWER FROM A/V HEAD END EQUIPMENT.
B. CONTRACTOR SHALL PROVIDE NETWORK CONNECTIONS AS PART OF THIS SCOPE OF WORK.
C. CONTRACTOR SHALL PROVIDE ADDITIONAL PATCH PANELS AS REQUIRED, SIZED AS NECESSARY TO ACCOMMODATE CONNECTION OF A/V EQUIPMENT. PATCH PANEL SHALL BE PANDUIT CPPL24WBLY OR COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO PURCHASE AND INSTALLATION.
D. FINAL COLOR OF A/V TRANSMITTERS, RECEIVERS AND SPEAKERS SHALL BE COORDINATED WITH ARCHITECT.
E. PROVIDE LINE/LEVEL OVERRIDE INPUT FOR THE SCHOOL CENTRALLIZED PAGING SYSTEM AND EMERGENCY FIRE ALARM SYSTEM.



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3. CONTRACTOR SHALL PROVIDE REQUIRED POWER FOR SPEAKERS AND COORDINATE LOCATION AS REQUIRED.
4. PROVIDE AUDIO DUCKING FOR EMERGENCY NOTIFICATIONS.
5. REFER TO A/V EQUIPMENT SCHEDULE.
6. GROUND A/V RACK AND EQUIPMENT.

ORCHESTRA 53 A/V SCHEMATIC DIAGRAM

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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www.rtmec.com

SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	GWI
CHECKED BY	NII/CL

ELECTRICAL A/V DIAGRAM AND SCHEDULE

E-400
BIDDING

Branch Panel: LA

Location: GYM STORAGE xE-263
Supply From:
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
	1	*LTS. HOT LUNCH*	--	20 A	1	0 VA	0 VA		1	20 A	--	*RECP HOT LUNCH*	2	
	3	*LTS. HOT LUNCH*	--	20 A	1		0 VA	0 VA	1	20 A	--	*RECP HOT LUNCH*	4	
	5	*LTS. HOT LUNCH*	--	20 A	1			0 VA	1	20 A	--	*RECP HOT LUNCH*	6	
	7	*RECP HOT LUNCH*	--	20 A	1	0 VA	0 VA		1	20 A	--	*GYM + BOYS LOCKER RECEPTS.*	8	
	9	*RECP HOT LUNCH*	--	20 A	1		0 VA	0 VA	1	20 A	--	*RTU-B6.8.9 GFI RECEPTS.*	10	
	11	*RECP HOT LUNCH*	--	20 A	1			0 VA	1	20 A	--	*RECP CORRIDOR*	12	
	13	*RECP LOCK & GYM*	--	20 A	1	0 VA	0 VA		1	20 A	--	*CCU 3 HOT LUNCH*	14	
	15	*RECP GIRLS LOCK*	--	20 A	1		0 VA	0 VA	1	20 A	--	*CCU #2 GYM*	16	
	17	*RECP OFF #23*	--	20 A	1			0 VA	1	20 A	--	*RECP GYM*	18	
	19	*RECP GYM*	--	20 A	1	0 VA	0 VA		1	20 A	--	*RECP ART*	20	
	21	*RECP GRL UNIF.*	--	20 A	1		0 VA	0 VA	1	20 A	--	*OFF #1STR#.33*	22	
	23	*LTS. PAINT ROOM*	--	20 A	1			0 VA	1	20 A	--	*HONEYWELL*	24	
	25	*SPARE*	--	20 A	1	0 VA	720 VA		**1**	**20 A**	**6 A**	**RECEPTS. ORCHESTRA 53**	26	
	27	*RECP CORR*	--	20 A	1		0 VA	900 VA	**1**	**20 A**	**7.5 A**	**RECEPTS. ORCHESTRA 53**	28	
	29	*RECP CUST. STG.*	--	20 A	1			0 VA	720 VA	**1**	**20 A**	**6 A**	**RECEPTS. OFF 53A**	30	
	31	**RECEPTS. OFF 53B**	**6 A**	**20 A**	1	720 VA	0 VA		1	20 A	--	*RECP CHORAL*	32	
	33	**RECEPTS. ENSEMBLE 53D**	**6 A**	**20 A**	1			720 VA	0 VA	1	20 A	--	*RECP CHORAL*	34	
	35	**RECEPTS. ENSEMBLE 53C**	**6 A**	**20 A**	1				720 VA	0 VA	1	20 A	--	*RECP CHORAL*	36	
	37	*LIGHTS OUT CONT.*	--	20 A	1	0 VA	0 VA		1	20 A	--	*KIT & EXH FAN STG*	38	
	39	*SCOREBOARD*	--	20 A	1			0 VA	0 VA	1	20 A	--	*KIT & EXH FAN STG*	40	
	41	*EXISTING LOAD*	--	20 A	1			0 VA	0 VA	1	20 A	--	*EXH FAN UNIFORMS*	42	
	43	*AV EQUIPMENT*	--	20 A	1	0 VA	360 VA		1	20 A	3 A	CAB-1 ENSEMBLE 53C	44	
	45	SPACE	--	--	1			-- --	1	--	--	SPACE	46	
	47	SPACE	--	--	1			-- --	1	--	--	SPACE	48	
	49	SPACE	--	--	1	-- --			1	--	--	SPACE	50	
	51	SPACE	--	--	1		-- --		1	--	--	SPACE	52	
	53	SPACE	--	--	1			-- --	1	--	--	SPACE	54	
				Total Load:		1800 VA	1620 VA	1440 VA						
				Total Amps:		15 A	14 A	12 A						

CIRCUIT BREAKER INFORMATION LEGEND:
N = PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED
E = EXISTING SPARE CIRCUIT BREAKER TO BE REUSED
G = GROUND FAULT PROTECTION
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
Receptacle	4860 VA	100.00%	4860 VA	
				Total Conn. Load: 4860 VA
				Total Est. Demand: 4860 VA
				Total Conn.: 13 A
				Total Est. Demand: 13 A

Notes:

Branch Panel: P1

Location: IDF-1 A101A
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MCB
Bus Amps: 250 A
MCB Rating: 250 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	LIGHTING	4.17..	20 A	1	1155 VA	5667 VA						2	
	3	LIGHTING	2.09..	20 A	1			578 VA	5667 VA				4	
	5	LIGHTING	4.55..	20 A	1				1261 VA	5667 VA			6	
	7					7333 VA	667 VA						8	
	9	VAV-A104B	26.46 A	35 A	3			7333 VA	667 VA		3	20 A	2.41 A	VAV-A108	10	
	11								7333 VA	667 VA					12	
	13						667 VA	1000 VA							14	
	15	VAV-A107	2.41 A	20 A	3			667 VA	1000 VA		3	20 A	3.61 A	VAV-A105	16	
	17									667 VA	1000 VA				18	
	19					1000 VA	2000 VA								20	
	21	VAV-A104A	3.61 A	20 A	3			1000 VA	2000 VA		3	20 A	7.22 A	VAV-A101	22	
	23									1000 VA	2000 VA				24	
	25					6667 VA	7040 VA								26	
	27	VAV-A103	24.06 A	35 A	3			6667 VA	5900 VA		3	50 A	21.72 A	TR-30	28	
	29									6667 VA	5120 VA				30	
	31					17174 VA	104 VA					1	20 A	0.38	LIGHTING - EXTERIOR	32
	33	RTU-A53A	61.97 A	80 A	3			17174..	--			1	--	--	SPACE	34
	35									17174..	--	1	--	--	SPACE	36
	37	SPACE	--	--	1	-- --						1	--	--	SPACE	38
	39	SPACE	--	--	1		-- --					1	--	--	SPACE	40
	41	SPACE	--	--	1			-- --				1	--	--	SPACE	42
				Total Load:		51473 VA	49652 VA	49555 VA								
				Tot...		186 A	179 A	179 A								

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT PROTECTION
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	131602 VA	100.00%	131602 VA	
Other	368 VA	100.00%	368 VA	**Total Conn. Load:** 150180 VA
Receptacle	11340 VA	94.09%	10670 VA	**Total Est. Demand:** 149610 VA
Power	3840 VA	100.00%	3840 VA	**Total Conn.:** 181 A
Lighting	3030 VA	100.00%	3030 VA	**Total Est. Demand:** 180 A

Notes:

Branch Panel: P2

Location: IDF-1 A101A
Supply From: TR-30
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: MLO
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	RECEPTS. AG TECH A103	7.5 A	20 A	1	900 VA	360 VA		1	20 A	3 A	CORD REEL - AG TECH	2	
	3	RECEPTS. AG TECH A103	6 A	20 A	1			720 VA	360 VA	1	20 A	3 A	RECEPTS. CORRIDOR A101	4	
	5	RECEPTS. AG TECH A103	6 A	20 A	1				720 VA	360 VA	1	20 A	3 A	RECEPTS. CORRIDOR A101	6	
G	7	WATER FOUNTAIN CORRIDOR A101	1.5 A	20 A	1	180 VA	720 VA						20 A	6 A	RECEPTS. CORRIDOR A104A	8
	9	RECEPTS. PRAC A108	6 A	20 A	1			720 VA	720 VA				20 A	6 A	RECEPTS. PRAC A109	10
	11	RECEPTS. OFFICE A106	6 A	20 A	1					720 VA	720 VA	1	20 A	6 A	RECEPTS. OFFICE A107	12
	13	RECEPTS. LIB A110	4.5 A	20 A	1	540 VA	720 VA					1	20 A	6 A	RECEPTS. BAND A104	14
	15	RECEPTS. PRAC A111	6 A	20 A	1			720 VA	1260 VA			1	20 A	10.5..	RECEPTS. BAND A104	16
	17	RECEPTS. PRAC A112	6 A	20 A	1					720 VA	180 VA	1	20 A	11.5 A	PROJECTOR BAND A104	18
G	19	HAND DRYER	12.5..	20 A	1	1500 VA	360 VA					1	20 A	3 A	CORD REEL - AG TECH	20
	21	GARAGE DOOR CORRIDOR A101	1.5 A	20 A	1			180 VA	360 VA			1	20 A	3 A	CORD REEL - AG TECH	22
	23	EF-B100	2.5 A	15 A	1					300 VA	180 VA	1	20 A	1.5 A	RECEPTACLE IDF-1 A101A	24
	25	CORD REEL	3 A	20 A	1	360 VA	180 VA					1	20 A	1.5 A	SCREEN BAND A104	26
	27	FANP	4.17..	20 A	1			500 VA	360 VA			1	20 A	3 A	CAB-1 STORAGE A105	28
	29	EWH-A100	10 A	20 A	2	1040 VA	180 VA			1040 VA	180 VA	1	20 A	1.5 A	RECEPTS. ROOF	30
	31											1	20 A	11.5 A	PLUMB. TOILET A102	32
	33	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	34
	35	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	36
	37	SPARE	--	20 A	1	0 VA	0 VA					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
				Total Load:		7040 VA		5900 VA			5120 VA					
				Tot...		60 A		50 A			43 A					

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT PROTECTION
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	2080 VA	100.00%	2080 VA	
Other	300 VA	100.00%	300 VA	**Total Conn. Load:** 17560 VA
Receptacle	11340 VA	94.09%	10670 VA	**Total Est. Demand:** 16890 VA
Power	3840 VA	100.00%	3840 VA	**Total Conn.:** 49 A
				Total Est. Demand: 47 A

Notes:

Branch Panel: A

Location: GYM STORAGE xE-263
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 69K
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					0 VA	0 VA						2	
	3	*EXISTING CIRCUIT*	--	20 A	3		0 VA	0 VA	3	30 A	--	*EXISTING CIRCUIT*	4	
	5							0 VA	0 VA				6	
	7					0 VA	0 VA						8	
	9	*EXISTING CIRCUIT*	--	20 A	3		0 VA	0 VA	3	20 A	--	*EXISTING CIRCUIT*	10	
	11							0 VA	0 VA				12	
	13					0 VA	0 VA						14	
	15	*EXISTING CIRCUIT*	--	20 A	3		0 VA	0 VA	3	20 A	--	*EXISTING CIRCUIT*	16	
	17							0 VA	0 VA				18	
	19	*EXISTING CIRCUIT*	--	20 A	1	0 VA	0 VA		1	20 A	--	*EXISTING CIRCUIT*	20	
	21	*EXISTING CIRCUIT*	--	20 A	1		0 VA	0 VA	1	20 A	--	*EXISTING CIRCUIT*	22	
	23	*EXISTING CIRCUIT*	--	20 A	1			0 VA	0 VA	1	20 A	--	*EXISTING CIRCUIT*	24
	25	*EXISTING CIRCUIT*	--	20 A	1	0 VA	0 VA						26	
	27	*EXISTING CIRCUIT*	--	20 A	1		0 VA	0 VA	3	50 A	--	*EXISTING CIRCUIT*	28	
	29	*EXISTING CIRCUIT*	--	20 A	1			0 VA	0 VA				30	
	31					0 VA	0 VA						32	
	33	*EXISTING CIRCUIT*	--	50 A	3			0 VA	985 VA	1	20 A	3.56..	**LIGHTING**	**34**
	35							0 VA	--	1	--	--	*SPACE*	36
	37					0 VA	--			1	--	--	*SPACE*	38
	39	*EXISTING CIRCUIT*	--	30 A	3		0 VA	--	1	--	--	*SPACE*	40	
	41							0 VA	--	1	--	--	*SPACE*	42
				Total Load:		0 VA		985 VA			0 VA			
				Total Amps:		0 A		4 A			0 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
Lighting	985 VA	100.00%	985 VA	
				Total Conn. Load: 985 VA
				Total Est. Demand: 985 VA
				Total Conn.: 1 A
				Total Est. Demand: 1 A

Notes:

Branch Panel: LB

Location: ELECT. x121
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Type: MLO
Bus Amps: 260 A

CB Info	CKT	Circuit Description	A...	Trip	Poles	A	B	C	Poles	Trip	A...	Circuit Description	CKT	CB Info
	E 1	**RECEPTS. STORAGE A114**	**3 A**	**20 A**	1	360 VA	180 VA		1	**20 A**	**1.5 A**	**DRILL PRESS**	2	N S
	E 3	**RECEPTS. WOOD SHOP A113**	**6 A**	**20 A**	1			720 VA	180 VA	1	**20 A**	**1.5 A**	**DRILL PRESS**	4	N S
S N	N 5	**SANDER**	**1.5 A**	**20 A**	1				180 VA	180 VA	1	**20 A**	**1.5 A**	**SANDER**	6	N S
	7					333 VA	333 VA						8			
S N	N 9	**TABLE SAW**	**2.78 A**	**20 A**	3			333 VA	333 VA		3	**20 A**	**2.78 A**	**PLANER**	10	N S
	11								333 VA	333 VA					12	
S N	N 13	**DUST COLLECTOR**	**1.5 A**	**20 A**	1	180 VA	180 VA				1	**20 A**	**1.5 A**	**BAND SAW**	14	N S
S N	N 15	**BAND SAW**	**1.5 A**	**20 A**	1			180 VA	180 VA		1	**20 A**	**1.5 A**	**CHOP SAW**	16	N S
S N	N 17	**DUST COLLECTOR**	**1.5 A**	**20 A**	1				180 VA	180 VA	1	**20 A**	**1.5 A**	**CHOP SAW**	18	N S
	E 19	**CORD REEL**	**3 A**	**20 A**	1	360 VA	0 VA				1	**15 A**	--	*FAN JULIA-ST*	20	E
	E 21	**CORD REEL**	**3 A**	**20 A**	1			360 VA	540 VA		1	**20 A**	**4.5 A**	**DRILL CHARGING STATIONS-1st Shelf**	22	E
	E 23	**CORD REEL**	**3 A**	**20 A**	1			360 VA	540 VA	1	**20 A**	**4.5 A**	**DRILL CHARGING STATIONS-2nd Shelf**	24	E
	E 25	*GFI - RTU-3*	--	20 A	1	0 VA	540 VA				1	**20 A**	**4.5 A**	**DRILL CHARGING STATIONS-3rd Shelf**	26	E
	E 27	**CORD REEL**	**3 A**	**20 A**	1			360 VA	540 VA		1	**20 A**	**4.5 A**	**DRILL CHARGING STATIONS-4th Shelf**	28	E
	E 29	**CORD REEL**	**3 A**	**20 A**	1			360 VA	540 VA	1	**20 A**	**4.5 A**	**DRILL CHARGING STATIONS-5th Shelf**	30	E
	E 31	**GOGGLE SANITIZING CABINET**	**1.5 A**	**20 A**	1	180 VA	0 VA				1	20 A	--	*SPARE*	32	E
	E 33	*SPARE*	--	20 A	1			0 VA	0 VA		1	20 A	--	*SPARE*	34	E
	E 35	*SPARE*	--	20 A	1			0 VA	0 VA	2	15 A	--	*EXISTING CIRCUIT*	36	E
	E 37	*RECEPTS. WOOD SHOP A113*	1.5 A	20 A	1	180 VA	0 VA						38			
	E 39	*EXISTING CIRCUIT*	--	30 A	2		0 VA	0 VA	2	15 A	--	*EXISTING CIRCUIT*	40	E
	E 41							0 VA	0 VA				42	
				Total Load:		2827 VA		3727 VA			3187 VA			
				Total Amps:		24 A		32 A			27 A			

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ABBREVIATIONS:
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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	5940 VA	100.00%	5940 VA	
Power	3800 VA	100.00%	3800 VA	**Total Conn. Load:** 9740 VA
				Total Est. Demand: 9740 VA
				Total Conn.: 27 A
				Total Est. Demand: 27 A

Notes:
SHUNT TRIP BREAKERS ARE CONTROLLED BY EMERGENCY STOP BUTTON IN WOODSHOP.

Branch Panel: LD

Location: MECHANICAL 038
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Type: MLO
Bus Amps: 400 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
E	E 1	EXISTING	--	20 A	1	0 VA	0 VA		1	20 A	--	EXISTING	2	E
	E 3	EXISTING	--	20 A	1		0 VA	0 VA	1	20 A	--	EXISTING	4	E
	E 5	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	6	E
	E 7	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	8	E
	E 9	EXISTING	--	20 A	1		0 VA	0 VA			1	20 A	--	EXISTING	10	E
	E 11	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	12	E
	E 13	EXISTING	--	60 A	2	0 VA	0 VA				2	60 A	--	EXISTING	14	E
	E 15						0 VA	0 VA							16	
	E 17	EXISTING	--	60 A	2			0 VA	0 VA		2	60 A	--	EXISTING	18	E
	E 19					0 VA	0 VA								20	
	E 21	EXISTING	--	20 A	2		0 VA	0 VA							22	
	E 23							0 VA	0 VA		2	60 A	--	EXISTING	24	E
	E 25	EXISTING	--	20 A	2	0 VA	0 VA								26	
	E 27						0 VA	0 VA			1	20 A	--	EXISTING	28	E
	E 29	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	30	E
	E 31	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	32	E
	E 33	EXISTING	--	20 A	1		0 VA	0 VA			1	20 A	--	EXISTING	34	E
	E 35	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	36	E
	E 37	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	38	E
	E 39	EXISTING	--	60 A	2		0 VA	0 VA			1	20 A	--	EXISTING	40	E
	E 41							0 VA	0 VA	1	20 A	--	EXISTING	42	E
	E 43	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	44	E
	E 45	EXISTING	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING	46	E
	E 47	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	48	E
	E 49	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	50	E
	E 51	EXISTING	--	20 A	1		0 VA	0 VA			1	20 A	--	EXISTING	52	E
	E 53	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	54	E
	E 55	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	56	E
	E 57	EXISTING	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING	58	E
	E 59	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	60	E
	E 61	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	62	E
	E 63	EXISTING	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING	64	E
	E 65	EXISTING	--	20 A	1			0 VA	0 VA	1	20 A	--	EXISTING	66	E
	E 67	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING	68	E
	E 69	EXISTING	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING	70	E
	N 71	**RCP-1**	**1.06..**	**15 A**	1			127 VA	--	1	--	--	SPACE	72	E
				Total Load:		0 VA		0 VA			127 VA					
				Total Amps:		0 A		0 A			1 A					

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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	127 VA	100.00%	127 VA	
				Total Conn. Load: 127 VA
				Total Est. Demand: 127 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

Notes:

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION AND RENOVATIONS TO JUNIOR HIGH

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SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT	223049.00
DATE OF ISSUE	11.10.2023
DRAWN BY	GWI
CHECKED BY	NI/CL

ELECTRICAL PANEL SCHEDULES

E-500
BIDDING