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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION & RENOVATION TO NEIL ARMSTRONG

212 S Parkview Drive

Eldridge, IA 52748



SCHEDULE OF DRAWINGS

GENERAL DRAWINGS		FIRE PROTECTION DRAWINGS	
G-001	TITLE SHEET	FP-000	FIRE PROTECTION LEGEND
G-101	CODE INFORMATION & SAFETY REFERENCE PLANS	FP-101A	FIRST FLOOR FIRE PROTECTION PLAN - MODULE A
G-201	SYMBOLS AND PROJECT GENERAL NOTES		
CONSTRUCTION DRAWINGS		PLUMBING DRAWINGS	
SL-P-1	SITE LOGISTIC PLAN	P-000	PLUMBING LEGEND
SL-P-2	SITE LOGISTIC PLAN	P0101A	PLUMBING FIRST FLOOR DEMOLITION PLAN - MODULE A
CIVIL DRAWINGS		P0101B	PLUMBING FIRST FLOOR DEMOLITION PLAN - MODULE B
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN	P-101A	PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MODULE A
C-102	SITE LAYOUT PLAN	P-101B	PLUMBING FIRST FLOOR PLAN - MODULE B
C-103	SITE UTILITIES	P-201A	PLUMBING SANITARY VENT AND GAS PLAN - MODULE A
C-104	STORM DRAIN PROFILE AND SITE DETAILS	P-202A	PLUMBING ROOF PLAN - MODULE A
C-105	ROOF DRAIN AND SANITARY PROFILES	P-202B	PLUMBING ROOF PLAN - MODULE B
C-106	SITE GRADING	P-300	PLUMBING SCHEDULES AND DETAILS
C-107	EROSION CONTROL	P-400A	PLUMBING DOMESTIC WATER RISER DIAGRAM - MODULE A
		P-401A	PLUMBING SANITARY AND VENT DIAGRAM - MODULE A
STRUCTURAL DRAWINGS		MECHANICAL DRAWINGS	
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S-001	GENERAL NOTES	MD101A	MECHANICAL FIRST FLOOR DEMOLITION PLAN - MODULE A
S-100	FOUNDATION PLAN	MD101B	MECHANICAL FIRST FLOOR DEMOLITION PLAN - MODULE B
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S-301	CONCRETE DETAILS	M-201A	MECHANICAL FIRST FLOOR CONTROLS PLAN - MODULE A
S-400	COLD FORM DETAILS	M-202A	MECHANICAL ROOF PLAN - MODULE A
S-500	STEEL DETAILS	M-202B	MECHANICAL ROOF PLAN - MODULE B
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AD-101	FIRST FLOOR DEMOLITION PLAN	M-303	GYM RTU CONTROL DIAGRAM
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AC101A	FIRST FLOOR REFLECTED CEILING PLAN - MODULE A	ELECTRICAL DRAWINGS	
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AR101A	ROOF PLAN - MODULE A	ED101A	ELECTRICAL FIRST FLOOR DEMOLITION PLANS - MODULE A
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SITE LOCATION MAP



NEIL ARMSTRONG ELEMENTARY

CAMPUS PLAN



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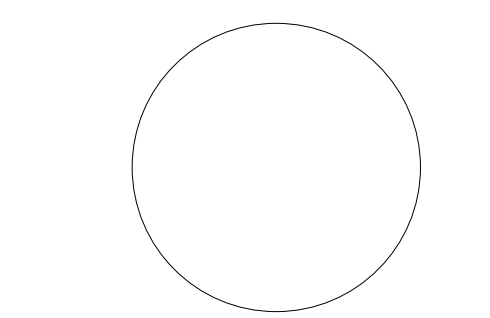
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DATE OF ISSUE

12.15.23

ARCHITECT'S PROJECT NUMBER

223047.00



SIGNATURE

DATE

REVISIONS

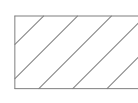
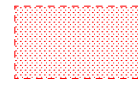

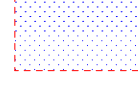
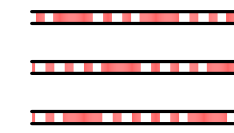
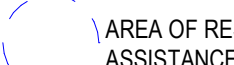



















NO.	DESCRIPTION	DATE
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PROJECT NUMBER 223047.00
DATE OF ISSUE 12.15.23
DRAWN BY BE
CHECKED BY KW

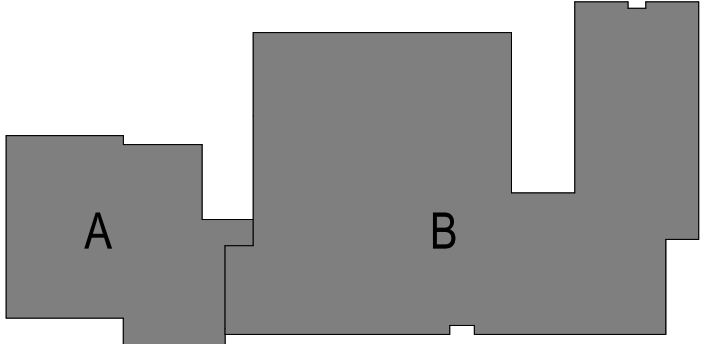
TITLE SHEET

EXIT DOOR SCHEDULE					
DOOR EXIT ID	DOOR WIDTH	CLEAR WIDTH (INCHES)	MEANS OF EGRESS CAPACITY FACTOR	CALCULATED EXIT CAPACITY	ACTUAL EXIT CAPACITY
EXIT 11S	6'-0"	67.5	0.15	450	0
EXIT 12S	6'-0"	67.5	0.15	450	34
EXIT 1S	6'-0"	67.5	0.15	450	0
EXIT 1S	6'-0"	67.5	0.15	450	0
EXIT 2AAN	11'-0"	67.5	0.15	450	0
EXIT 2B	6'-0"	67.5	0.15	450	450
EXIT 2BW	6'-0"	67.5	0.15	450	450
EXIT 3N	6'-0"	67.5	0.15	450	244
EXIT 4N	6'-0"	67.5	0.15	450	0
EXIT 5N	6'-0"	67.5	0.15	450	0
EXIT 6N	6'-0"	67.5	0.15	450	0
EXIT 7E	6'-0"	67.5	0.15	450	0

SAFETY REFERENCE SYMBOLS & ABBREVIATIONS

ROOM NAME 101	ROOM IDENTIFICATION NUMBER PRIMARY EXIT NUMBER OCCUPANT LOAD PER MAXIMUM FLOOR AREA ALLOWANCE ACTUAL/ANTICIPATED OCCUPANT LOAD		AREA NOT IN CONTRACT
EXIT # ACT CALC	DOOR EXIT IDENTIFICATION NUMBER DOOR CALCULATED EXIT CAPACITY DOOR ACTUAL EXIT CAPACITY		SPRAY FIREPROOFING
	EGRESS ROUTE EGRESS ROUTE IDENTIFICATION		SPRINKLERED
	1-HOUR FIRE RESISTANCE RATING 2-HOUR FIRE RESISTANCE RATING 3-HOUR FIRE RESISTANCE RATING 4-HOUR FIRE RESISTANCE RATING		
	AREA OF RESCUE ASSISTANCE		STAND PIPE
	AUTOMATED EXTERNAL DEFIBRILLATOR		FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL		GENERATOR ANNUNCIATOR PANEL
	KNOX BOX		TRANSFORMER FOR ELECTRICAL SERVICE
	EMERGENCY ELECTRICAL SHUT OFF		GENERATOR
	EMERGENCY WATER SHUT OFF		REMOTE SHUT OFF
	FULLY RECESSED FIRE EXTINGUISHER CABINET		SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
	SEMI-RECESSED FIRE EXTINGUISHER CABINET		SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
	SURFACE MOUNTED FIRE EXTINGUISHER CABINET		SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET
	SURFACE MOUNTED FIRE BLANKET CABINET		WALL MOUNTED FIRE EXTINGUISHER

BUILDING DATA - NEW CONSTRUCTION		
APPLICABLE CODE	IBC 2015	
USE GROUP	A, B, E	
CONSTRUCTION TYPE (TABLE 601)	IIB	
ALLOWABLE HEIGHT (TABLE 504.3)	75 FEET	
ACTUAL HEIGHT	24'-0"	
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)	9,894 SF	
MAXIMUM ALLOWABLE AREA	67,894 SF	
NEW BUILDING FOOTPRINT	15,350 SF	
EXISTING BUILDING FOOTPRINT	39,650 SF	
TOTAL BUILDING AREA (EXISTING + NEW)	55,000 SF	
AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS	YES	
FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS		
BUILDING ELEMENT	RATING	UL APPROVED DESIGN NO.
PRIMARY STRUCTURAL FRAME		
BEAMS	0 HR	
COLUMNS	0 HR	
BEARING WALLS		
EXTERIOR		
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	U006
PARTY WALLS (TABLE 706.4)	0 HR	
CORRIDOR WALLS (TABLE 1020.1)	0 HR	
EXTERIOR WALL FIRE SEPARATION DISTANCE (TABLE 602)	1 HOUR < 9' / 1 HOUR: 9' 3" x 10' 8 HOUR: 10' x 30' / 3 HOUR: >30'	
MEANS OF EGRESS - NEW CONSTRUCTION		
APPLICABLE CODE	SPRINKLED	
DOOR/CORRIDOR EGRESS WIDTH (1005.2.3)	IBC 2015	
STAIR EGRESS WIDTH (1005.3.1)	0.3 PERSON	
MAX. LENGTH OF EXIT ACCESS TRAVEL (TABLE 1017.2)	250 FEET	
MAX. LENGTH OF COMMON EXIT ACCESS TRAVEL (TABLE 1006.2.1)	75 FEET	
MAX. LENGTH OF DEAD END CORRIDORS (1020.4)	90 FEET	
MINIMUM CORRIDOR WIDTH (TABLE 1020.2)	72 INCHES	
APPLICABLE CODES - NEW CONSTRUCTION		
<ul style="list-style-type: none">• 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• STATE MECHANICAL CODE• 2015 INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC)• FEDERAL ACCESSIBILITY CODE: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN• NFPA 101 LIFE SAFETY CODE: 2012 EDITION		



LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH
SCOTT
COMMUNITY
SCHOOL
DISTRICT**

**ADDITION &
RENOVATION TO
NEIL
ARMSTRONG**

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REVISIONS		
NO.	DESCRIPTION	DATE
PROJECT NUMBER		223047 00
DATE OF ISSUE		12 15 23
DRAWN BY		KW
CHECKED BY		JS
CODE INFORMATION & SAFETY REFERENCE PLANS		
<div style="font-size: 48pt; font-weight: bold; text-align: center;">G-101</div> <div style="text-align: center;">ISSUED FOR BIDDING</div>		

ABBREVIATIONS	
ABR	ABRASEMENT
AD	ADJUSTMENT
EH	EXHAUST HOOD
ED	ELECTRIC HAND DRIVER
EJ	EXPANSION JOINT
EL	ELEVATION
BL ELEV	BELLEVILLE ELEVATOR
EL	ELECTRICAL
EMS	ENTRANCE MAT SYSTEMS
EP	ELECTRICAL PANEL
EQ	EQUAL
EW	ELECTRIC WATER COOLER
EW	EYES HIGH STATION
EX	EXISTING
EX/EXIST	EXISTING
EXP	EXPANDED
EXR	EXISTING TO REMAIN
F	FLOOR
FD	FIRE
FAP	FIRE ALARM SYSTEM ANNUNCIATOR PANEL
F	FACE
FACP	FIRE ALARM CONTROL PANEL
FAR-X	FAR-THICKNESS ACOUSTIC PANEL, (X = THICKNESS OF THE PANEL)
FB	FACE BRICK
FLP	FLIP BENCH
FO	FURNISHED BY OWNER
FOO	FLOOR CLEAN OUT
FOOD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEC	FIRE EXTINGUISHER, CABINET AND BLANK
FF	FACTORY FINISH
FG	FULL GLASS DOOR
FG2	FULL GLASS DOOR, PAIR
FL	FULL HEIGHT
RL	FLUSH OVERDOOR DOOR
FL-2	FLUSH OVERDOOR DOOR, PAIR
FL	FULL FACE OF FOUNDATION
FM	FACE OF MASONRY
FS	FACE OF STUD
FW	FACE OF WALL
FT	FOOT, FEET
G	GAUGE
GALV	GALVANIZED
GR	GRASS TRIMMER AND REGULATOR
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GLBK	GLASS BLOCK
GLZ	GLAZING
GRD	GROUND
GWB	GYPSEUM WALL BOARD
GYP	GYPSEUM
H	HOSE, HOSE BIB
HG	HIGH DENSITY STORAGE
HWR	HIGHWAY
HG	HALF GLASS DOOR
HG2	HALF GLASS DOOR PAIR
H	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HPC	HIGH PERFORMANCE COATING
H	HOUR
HT	HEIGHT
HAC	HUMIDIFICATION, AIR CONDITIONING
HMH	HOT WATER HEATER
H	HOLE, DIAMETER
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
PI	INTERIOR PAINT SYSTEM
JC	JANITOR'S CLOSET
JT	JOINT
KB	KNOB BOX
K	KNEE SPACE
L	LABORER
LAV	LAVATORY

[illegible][illegible]

RUCTION / RENOVATION NOTES	
IDENTIFIED TO BE REMOVED, CLEAN AND SUFFACE TO REMAIN TO MATCH THE ADJACENT SURFACES TO REMAIN. PATCH, PATCH, EXISTING SURFACES AS REQUIRED. THE EXISTING IS REMOVED AND NEW EQUIPMENT IS TO BE IN THE SAME LOCATION. CLEAN AND REPAIR THE TO REMAIN TO MATCH THE CONSTRUCTION. FINISHED TEXTURE, PATTERN, AND COLOR OF TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, AS REQUIRED.	1. EXIST 2. REMOVE 3. REPAIR 4. FINISH 5. PATCH 6. CLEAN 7. PREPARE 8. PAINT 9. AS REQUIRED
THE IDENTIFIED ASSEMBLIES ARE TO BE MAINTAINED AND BE APPLICABLE CODES. PENETRATIONS SHALL BE AS REQUIRED, NEW FIRE RATED ASSEMBLIES, IFED) AND APPROPRIATELY LABELED ABOVE.	10. MAINTAIN 11. PENETRATIONS 12. FIRE RATED 13. LABELLED
THE EXISTING ANY MATERIAL SHALL BE SEALED WITH A PROTECTANT BY THE ARCHITECT PRIOR TO ANY WORKING SHALL MATCH THE MATERIAL, SIZE, AND COURSEWORK OF EXISTING MASONRY TO BE ALL IN VOLUME UNITS TIGHTENED TO THE EXISTING TEXTURE AND PROFILE OF ADJACENT	14. SEAL 15. PROTECTANT 16. MATCH 17. SIZE 18. COURSEWORK 19. TIGHTENED 20. TEXTURE 21. PROFILE
REPAIRS TO ALL OPENINGS AND RECESSES TO BEAD BEARING MASONRY WALLS. REFER TO THE DRAWING FOR DETAIL.	22. REPAIRS 23. BEAD BEARING 24. MASONRY WALLS 25. DRAWING
OF INTERIOR CONCRETE MASONRY UNITS AND SEAL BETWEEN DIFFERENTIAL	26. INTERIOR CONCRETE 27. MASONRY UNITS 28. SEAL 29. DIFFERENTIAL
CONCRETE SEPARATING DISJUNCTIONAL MATERIALS. CONCRETE SHALL BE KEPT AS CLOSE AS POSSIBLE TO THE EXISTING CONCRETE. REPAIRS TO EXIST TO UNDERGO OF DECK.	30. CONCRETE 31. SEPARATING 32. DISJUNCTIONAL 33. MATERIALS 34. KEPT AS CLOSE 35. POSSIBLE 36. EXISTING 37. CONCRETE 38. REPAIRS 39. EXIST 40. UNDERGO 41. DECK
THE AREA TO BE EXTENSIVE FACE OF FINISH FOR TOPPING TO FLOOR DRANS, COORDINATE WITH THE EXISTING FLOOR FINISH.	42. AREA 43. EXTENSIVE 44. FACE 45. FINISH 46. TOPPING 47. FLOOR 48. DRANS 49. COORDINATE 50. EXISTING 51. FLOOR 52. FINISH
AND LIGHT FIXTURES, SECURITY DEVICES, TO BE REMOVED IN ACTS, UNLESS OTHERWISE NOTED FOR THE ARCHITECT'S RECORDS FOR ALL MOUNTED ITEMS.	53. REMOVED 54. SECURITY DEVICES 55. NOTED 56. ARCHITECT'S 57. RECORDS 58. MOUNTED 59. ITEMS
	60. PAINT

	<p align="center">DRAWING TITLE</p> <div style="position: absolute; top: 10px; right: 10px; font-size: small;"> DRAWING NAME VIEW NAME NORTH ARROW WHEN APPLICABLE SCALE REFERRING SHEET WHEN APPLICABLE </div>																														
	<p>CUT PATTERNS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td></td><td>ALUMINUM</td></tr> <tr><td></td><td>BRICK</td></tr> <tr><td></td><td>CONCRETE</td></tr> <tr><td></td><td>CONCRETE MASONRY UNIT / BLOCK</td></tr> <tr><td></td><td>EARTH - UNDISTURBED</td></tr> <tr><td></td><td>EARTH - TOP SOIL / BODFILL</td></tr> <tr><td></td><td>GRAVEL</td></tr> <tr><td></td><td>GYPNUM BOARD</td></tr> <tr><td></td><td>GROUT</td></tr> <tr><td></td><td>PLASTIC LAMINATE</td></tr> <tr><td></td><td>PLYWOOD</td></tr> <tr><td></td><td>RIGID INSULATION</td></tr> <tr><td></td><td>SOLID SURFACE</td></tr> <tr><td></td><td>SPRAY FOAM INSULATION</td></tr> <tr><td></td><td>STEEL</td></tr> </tbody> </table>		ALUMINUM		BRICK		CONCRETE		CONCRETE MASONRY UNIT / BLOCK		EARTH - UNDISTURBED		EARTH - TOP SOIL / BODFILL		GRAVEL		GYPNUM BOARD		GROUT		PLASTIC LAMINATE		PLYWOOD		RIGID INSULATION		SOLID SURFACE		SPRAY FOAM INSULATION		STEEL
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ARCHITECTS
PERFORMANCE | SUSTAINABILITY

**WORTH
COTT**
COMMUNITY
SCHOOL
DISTRICT

**ITION &
ATION TO
NEIL
STRONG**

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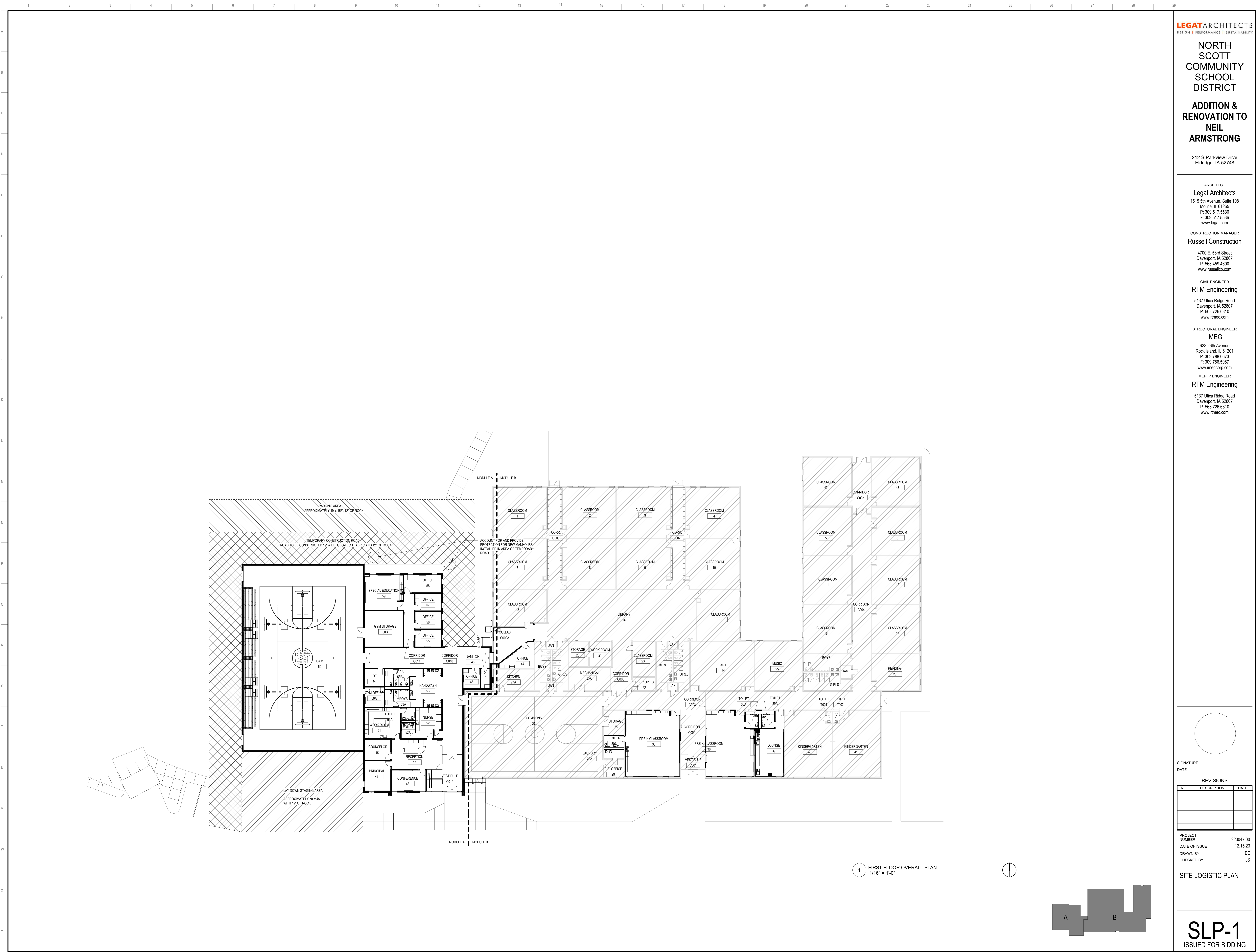
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83.726.6310
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ains, IL 61201
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09.786.5967
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F: 309.517.5536
www.legat.com

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Davenport, IA 52807
P: 563.459.4600
www.russellco.com

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MEPFP ENGINEER
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SITE LOGISTIC PLAN

SLP-1
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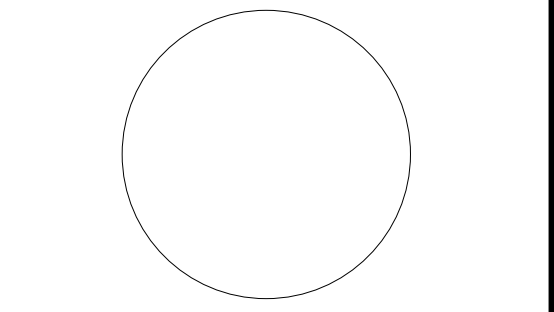
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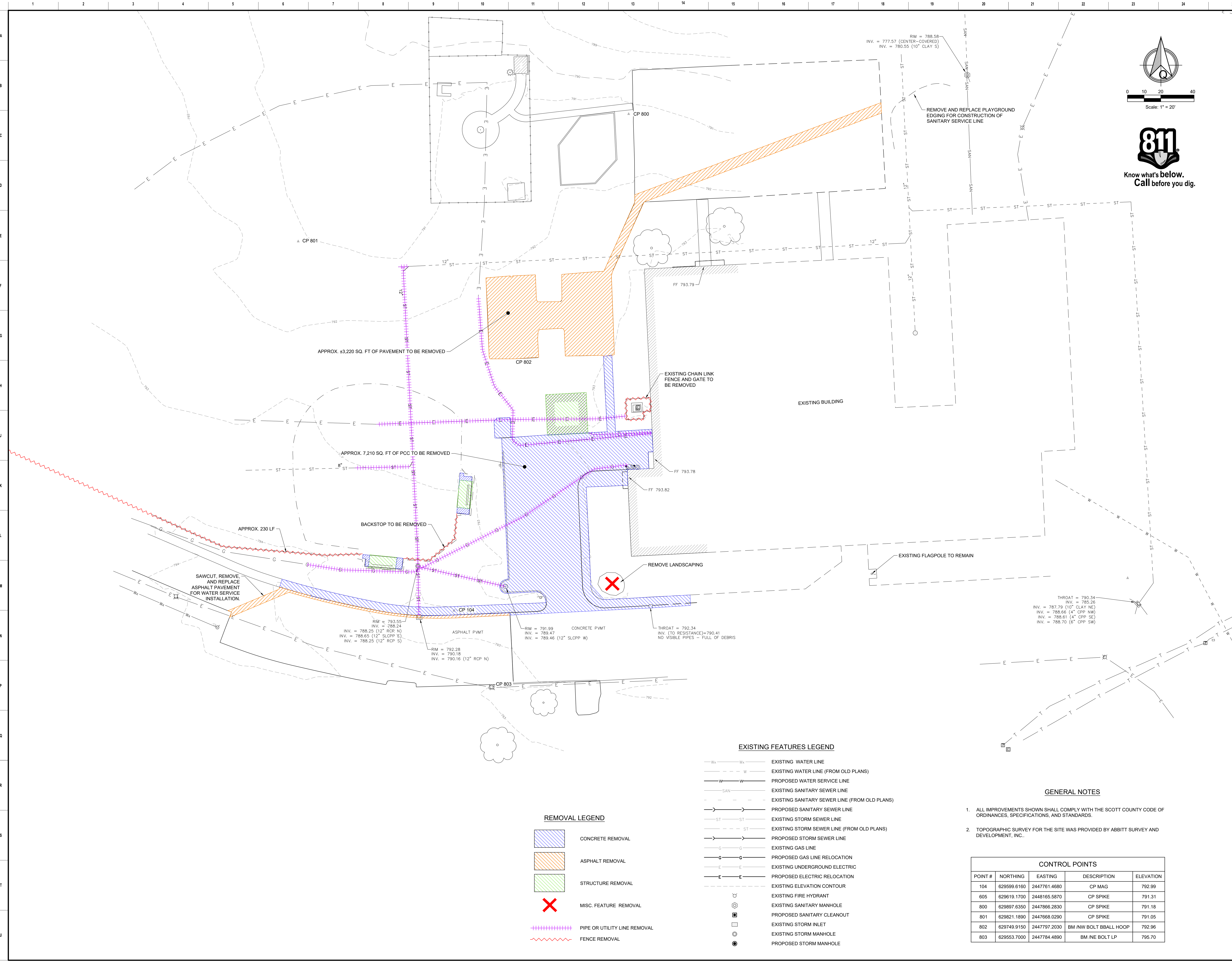
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SITE LOGISTIC PLAN



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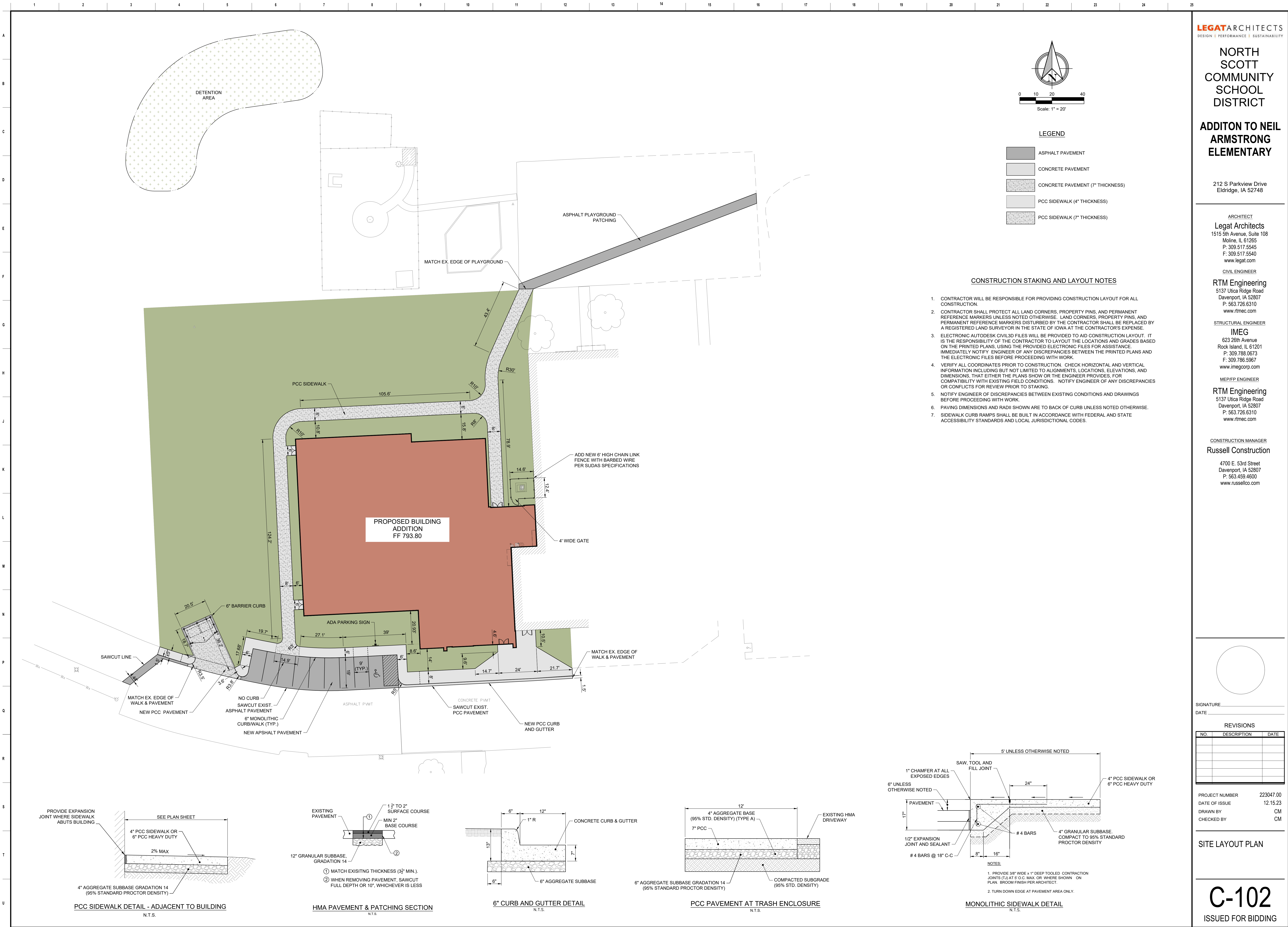
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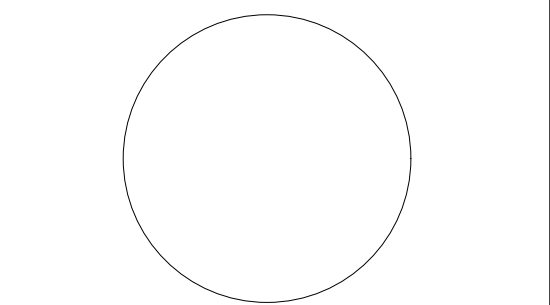
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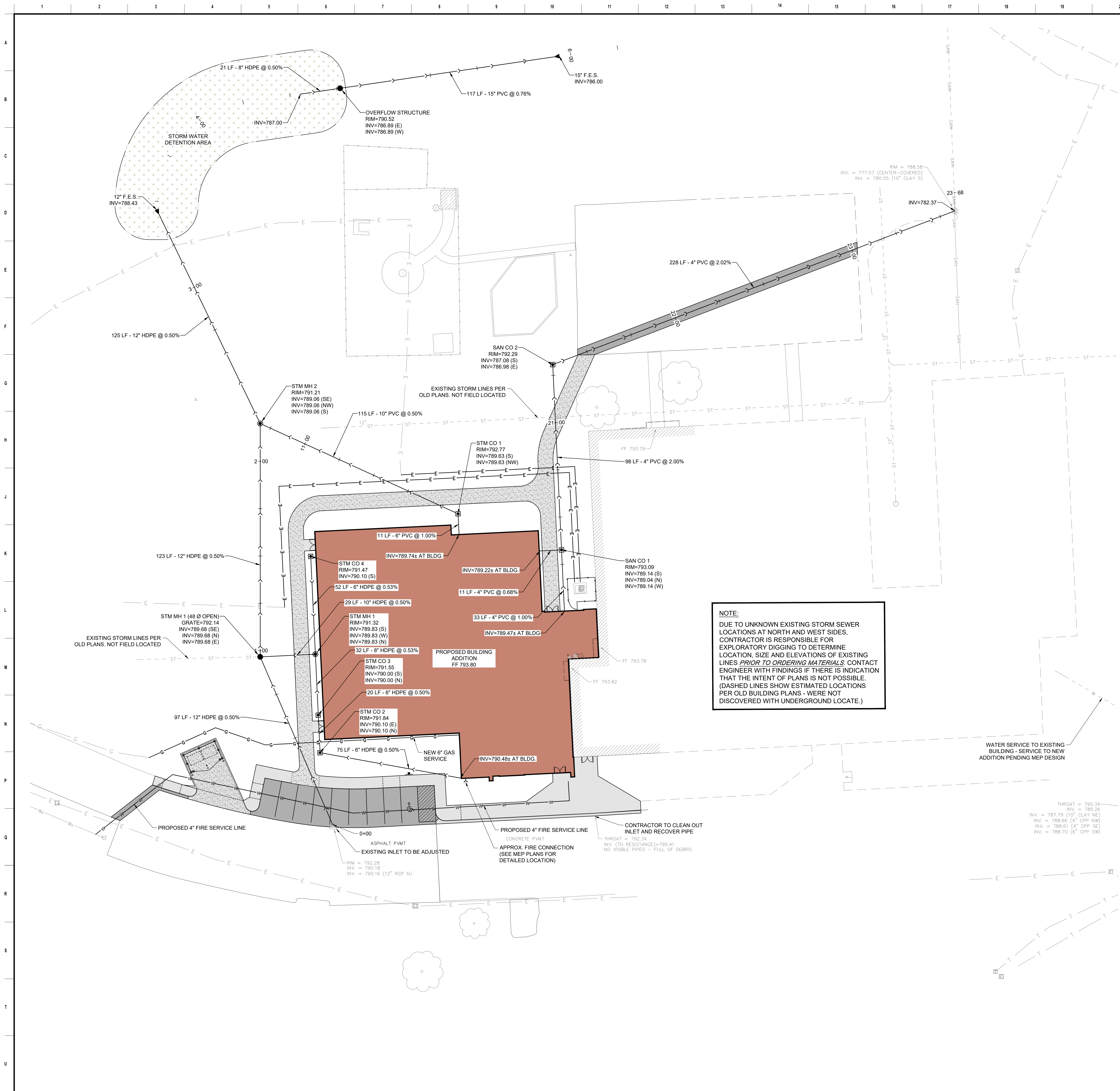
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SITE LAYOUT PLAN

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UTILITY LEGEND

—Wx—Wx—	EXISTING WATER LINE
---W---	EXISTING WATER LINE (UNVERIFIED - FROM OLD PLANS)
—W—W—	PROPOSED WATER SERVICE LINE
—SAN—	EXISTING SANITARY SEWER LINE
---SAN---	EXISTING SANITARY LINE (UNVERIFIED - FROM OLD PLANS)
—ST—ST—	EXISTING STORM LINE
---ST---	EXISTING STORM LINE (UNVERIFIED - FROM OLD PLANS)
—ST—ST—	PROPOSED SANITARY SEWER LINE
---ST---	EXISTING STORM LINE
—ST—ST—	PROPOSED STORM SEWER LINE
—G—G—	EXISTING GAS LINE
---G---	PROPOSED GAS LINE RELOCATION
—E—E—	EXISTING UNDERGROUND ELECTRIC
---E---	PROPOSED ELECTRIC RELOCATION
⊗	EXISTING FIRE HYDRANT
⊕	EXISTING SANITARY MANHOLE
⊖	PROPOSED SANITARY CLEANOUT
□	EXISTING STORM INLET
⊙	EXISTING STORM MANHOLE
⊗	PROPOSED STORM MANHOLE
●	PROPOSED OPEN MANHOLE

UTILITY LOCATION NOTE

ALL UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES WERE OBTAINED FROM A PRIVATE UTILITY LOCATE AND PREVIOUS BUILDING PLANS MADE AVAILABLE TO THE ENGINEER. THERE MAY BE OTHER EXISTING UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES NOT KNOWN AND NOT SHOWN ON 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. SEVERAL UTILITY LINES SHOWN AS EXISTING WERE UNABLE TO BE FIELD LOCATED. CONTRACTOR SHALL PERFORM EXPLORATORY DIGGING AS NECESSARY TO VERIFY THESE UTILITIES PRIOR TO ORDERING MATERIALS AND BEFORE CONSTRUCTION OF IMPROVEMENTS. CALL IOWA ONECALL (1-800-292-8989) FOR UTILITY LOCATES A MINIMUM OF 48-HOURS PRIOR TO DIGGING.

- ### GENERAL UTILITY NOTES

 - ALL IMPROVEMENTS SHOWN SHALL COMPLY WITH SUDAS, LATEST EDITION AND WITH THE STANDARDS OF THE IOWA DNR, LATEST EDITION.
 - WATER AND SANITARY SEWER SERVICES SHALL COMPLY WITH LOCAL PLUMBING CODES.
 - WATER AND SEWER SEPARATION REQUIREMENTS:
 - CONFORM TO SUDAS SECTION 5010.3.06 FOR SEPARATION REQUIREMENTS.
 - WHERE STORM SEWER CROSSES OVER OR IS WITHIN 18" BELOW WATER MAIN, LOCATE ONE FULL LENGTH OF SEWER PIPE OF WATER MAIN MATERIAL OR RCP WITH FLEXIBLE GASKET JOINT (ASTM C443) SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN.
 - COORDINATE WITH UTILITY COMPANIES AND PROPERTY OWNER REGARDING RELOCATIONS AND OUTAGES.
 - GAS, ELECTRIC, AND COMMUNICATION LINES SHALL COMPLY WITH LOCAL BUILDING CODES.
 - LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED AS APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT EACH UTILITY COMPANY OR IOWA ONE CALL FOR LOCATION OF EXISTING LINES IN OR NEAR THE CONSTRUCTION AREA.
 - CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GRADE EXISTING UTILITIES, INCLUDING ANY NOT SHOWN IN THE PLANS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN THE DRAWING AND THE EXISTING UTILITIES AND APPURTENANCES. DAMAGE TO EXISTING UTILITIES, PAVING OR OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
 - NOTIFY OWNER AND UTILITY COMPANIES TO COORDINATE CONNECTIONS OR INTERRUPTIONS TO SERVICES AS NEEDED.
 - USE GRANULAR BACKFILL MATERIALS FOR ALL UTILITY TRENCHES WITHIN 2' OF PAVED SURFACES.
 - OWNER WILL ORDER AND PAY FOR A QUALITY CONTROL AND TESTING FIRM IF DEEMED NECESSARY FOR THE PROJECT TO TEST COMPACTION DENSITIES OF TRENCH BACKFILL.
 - SEE MEP PLANS FOR WATER, GAS AND ELECTRIC SERVICES WITHIN 5' OF THE BUILDING.
 - SEE MEP PLANS FOR PROPOSED EXTERIOR LIGHTING DETAILS.

- ### TRENCH EXCAVATION AND BACKFILL

 - 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.
 - FOR UTILITIES IN FILL, CONSTRUCT COMPACTED EMBANKMENT TO A MINIMUM OF 2' ABOVE TOP OF PIPE ELEVATION PRIOR TO TRENCHING.
 - 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.
 - BACKFILL WITH GRANULAR MATERIALS AS SPECIFIED ABOVE TO 1' ABOVE PIPE FOR FLEXIBLE PIPE MATERIALS AND TO SPRINGLINE FOR RIGID PIPE MATERIALS.
 - 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.
 - 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.

- ### STORM SEWER NOTES

 - STORM SEWER SHALL BE CONSTRUCTED OF N-12 DUAL WALL HDPE PIPE OR EQUAL, DOUBLE WALLED POLYPROPYLENE (PP) PIPE, A-2000 POLYVINYL CHLORIDE (PVC) PIPE (OR EQUAL), OR REINFORCED CONCRETE PIPE (RCP) CLASS III (20000).
 - PROVIDE WATER TIGHT JOINTS FOR ALL STORM SEWER.
 - WHERE PIPE MATERIAL IS NOT EXPLICITLY CALLED OUT ON THE PLANS, CONTRACTOR HAS THE OPTION OF THE MATERIALS SPECIFIED ABOVE.
 - CONTRACTOR SHALL VERIFY INVERTS OF EXISTING STORM SEWER AND STRUCTURES PRIOR TO ORDERING MATERIALS AND PRIOR TO CONSTRUCTION.

- ### SANITARY SEWER SERVICE NOTES

 - SANITARY SERVICE SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) PIPE SDR 23.5 OR DUCTILE IRON PIPE (DIP) CLASS 52.
 - CONTRACTOR SHALL VERIFY INVERTS OF EXISTING SANITARY SEWER AND STRUCTURES PRIOR TO ORDERING MATERIALS AND PRIOR TO CONSTRUCTION.
 - SANITARY SEWER SERVICE SHALL BE AIR TESTED IN ACCORDANCE WITH SUDAS SECTION 4060.

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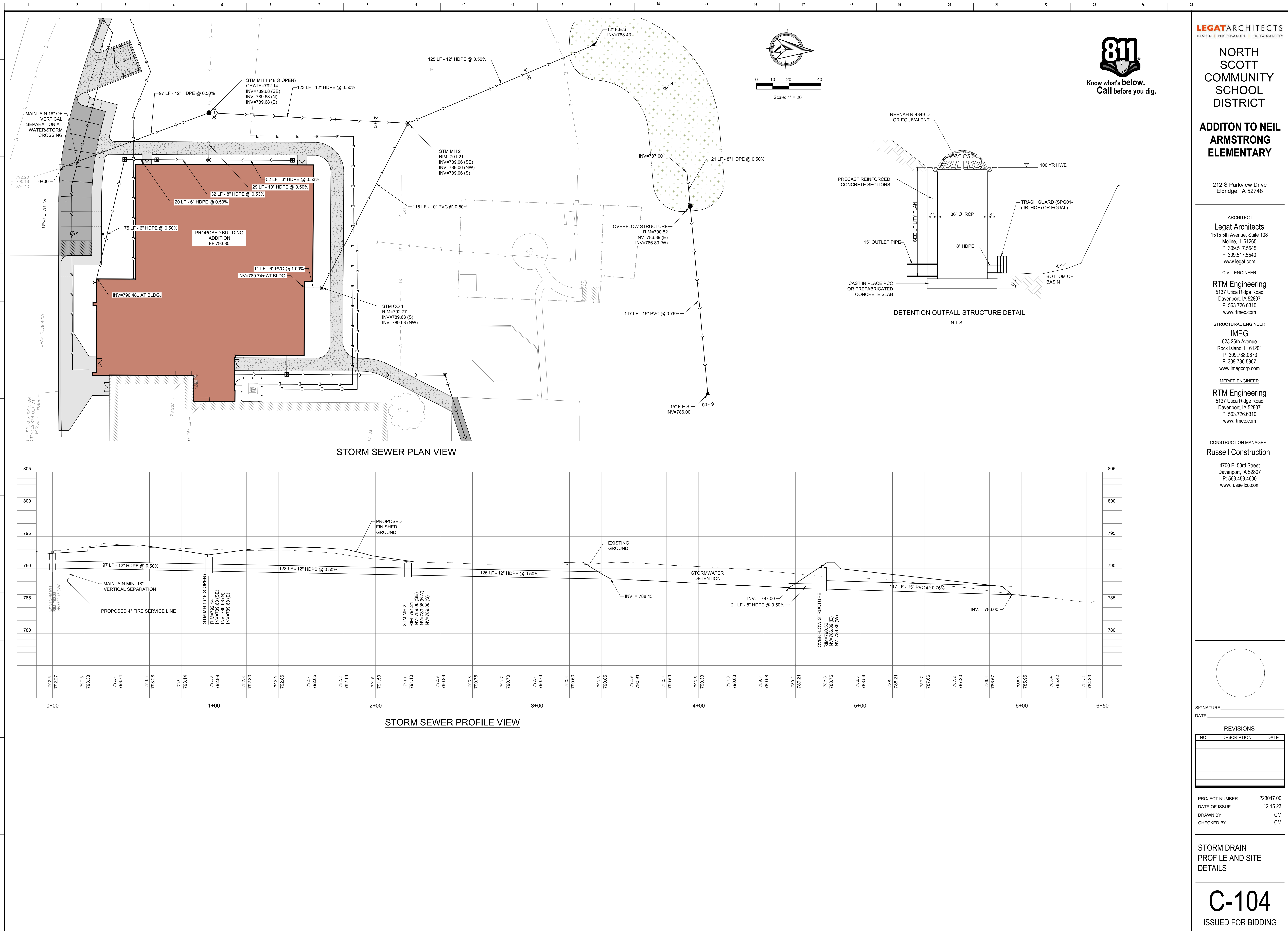
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SITE UTILITIES

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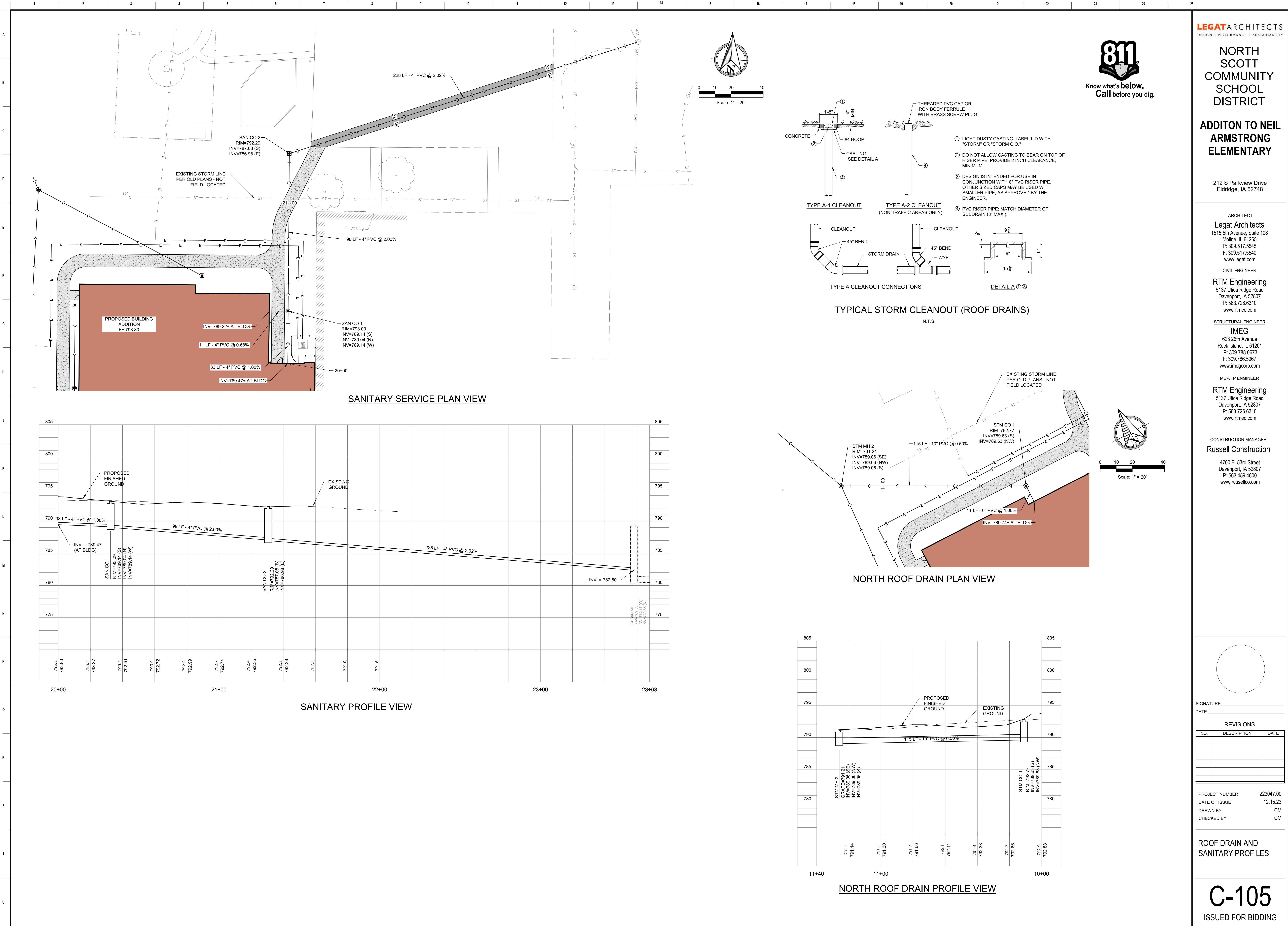
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STORM DRAIN PROFILE AND SITE DETAILS

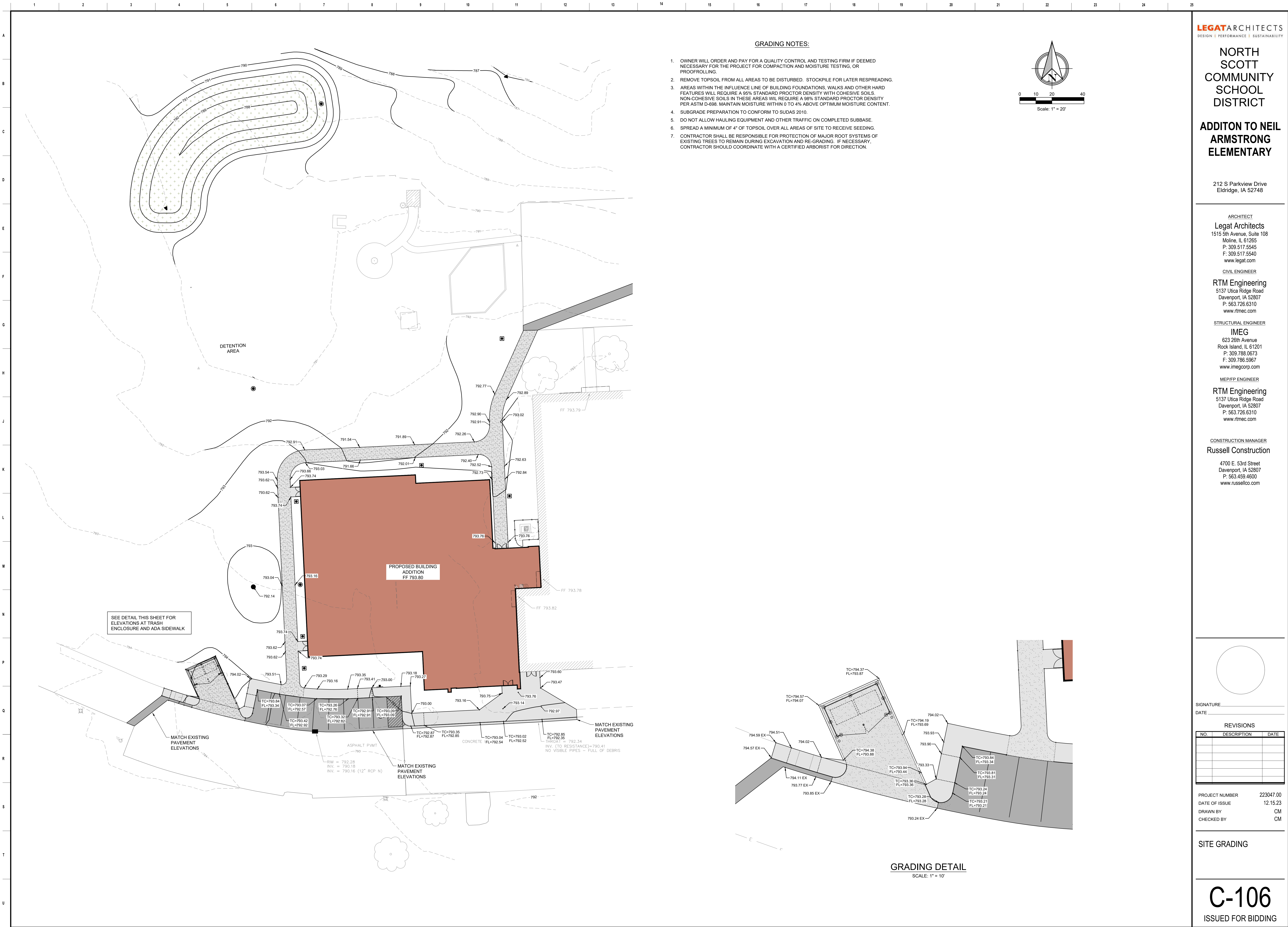
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ROOF DRAIN AND
SANITARY PROFILES



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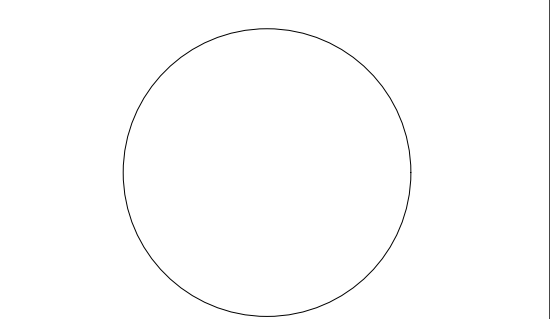
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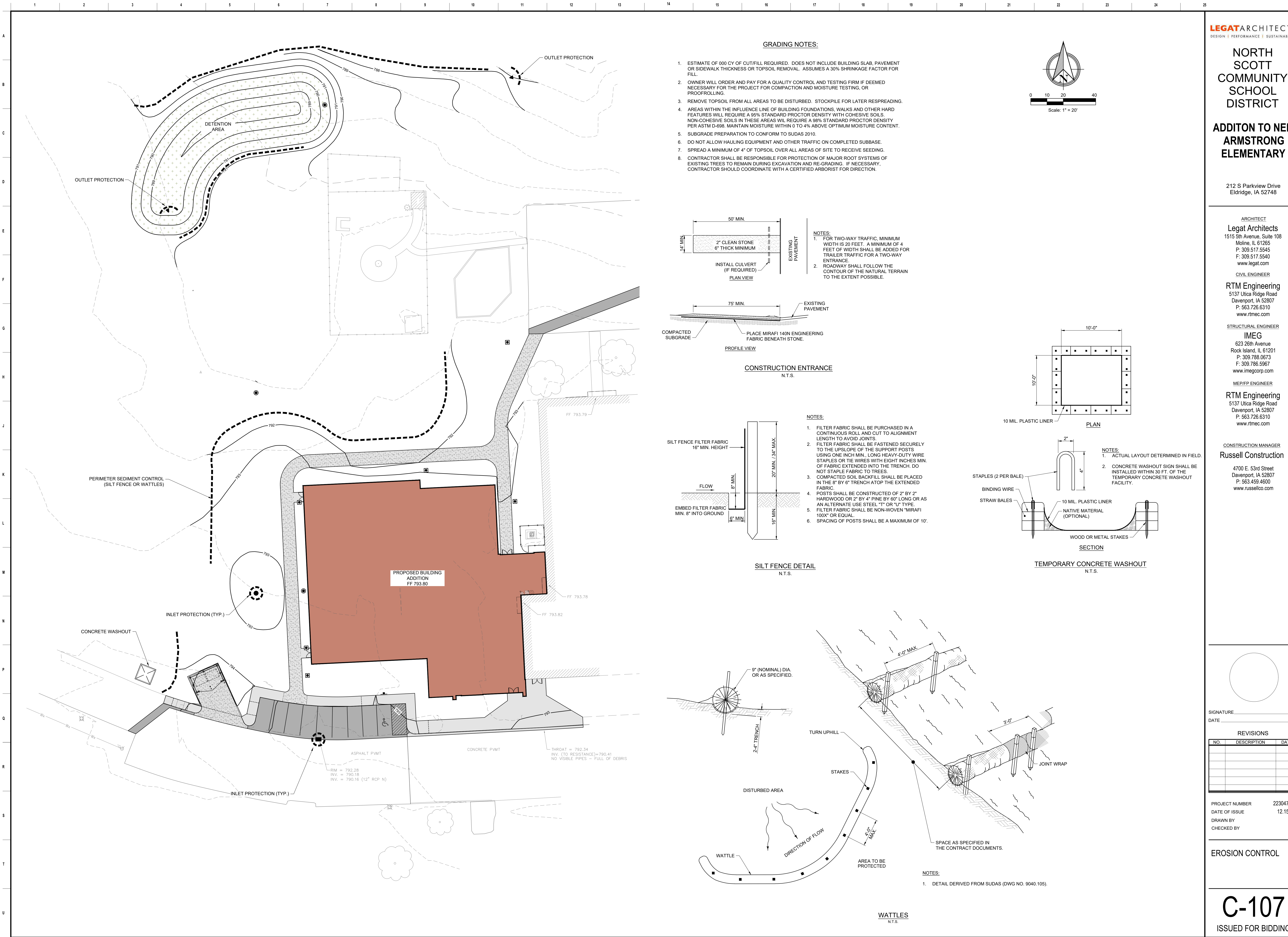
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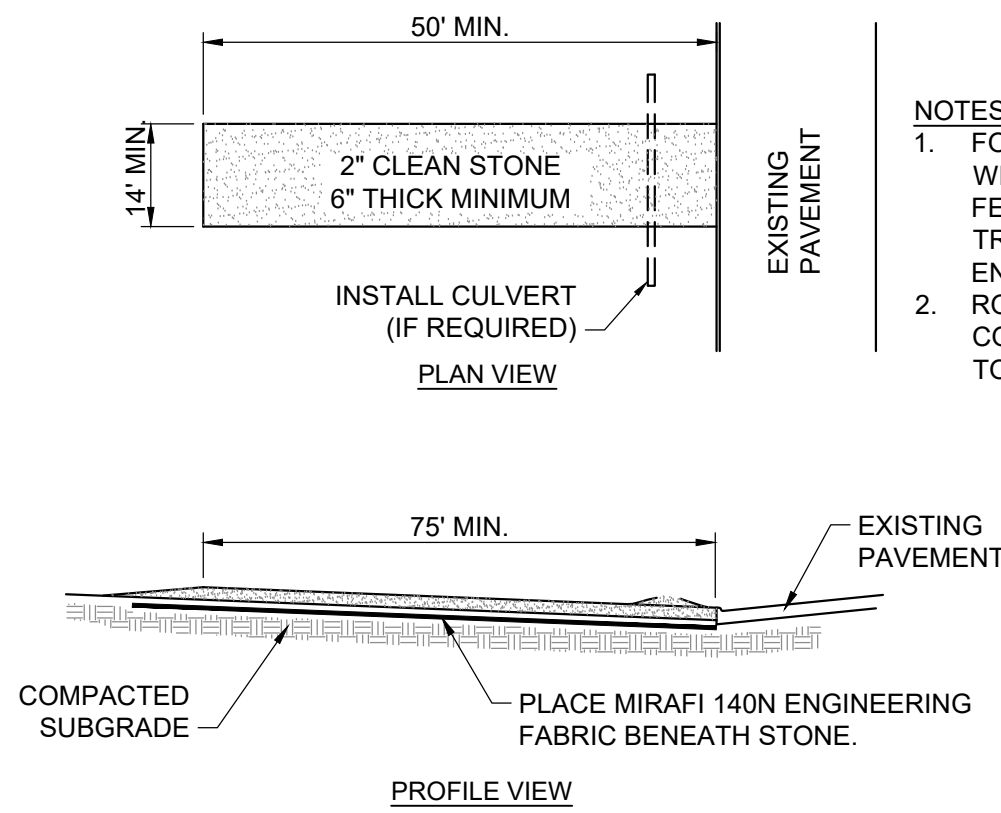
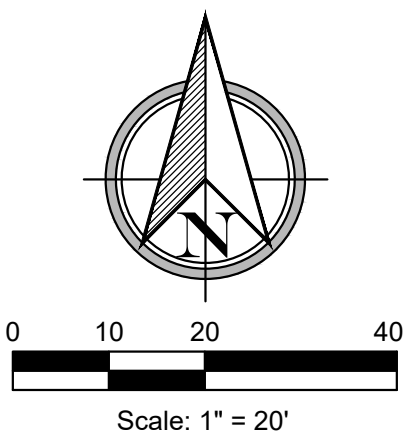
SITE GRADING

C-106
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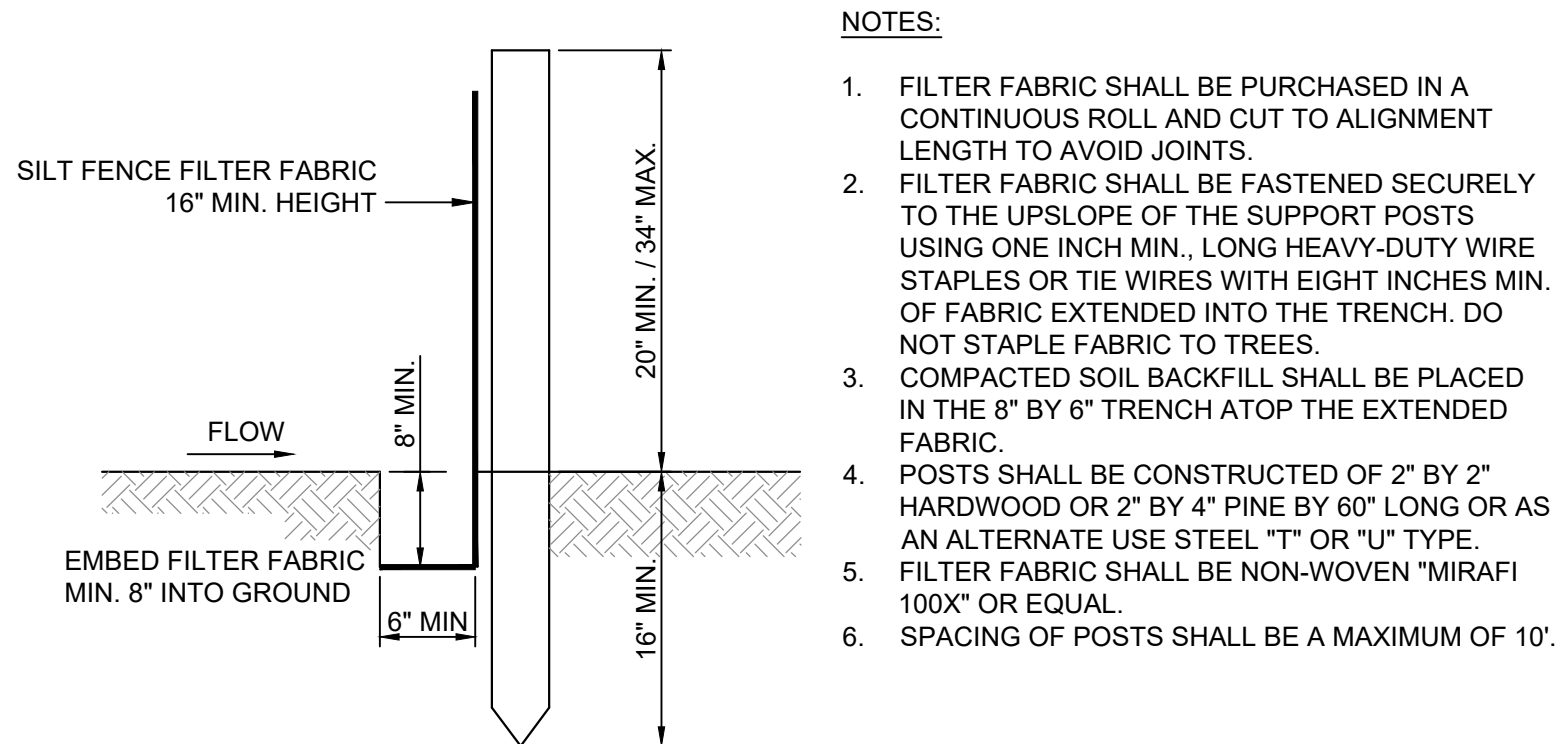


GRADING NOTES:

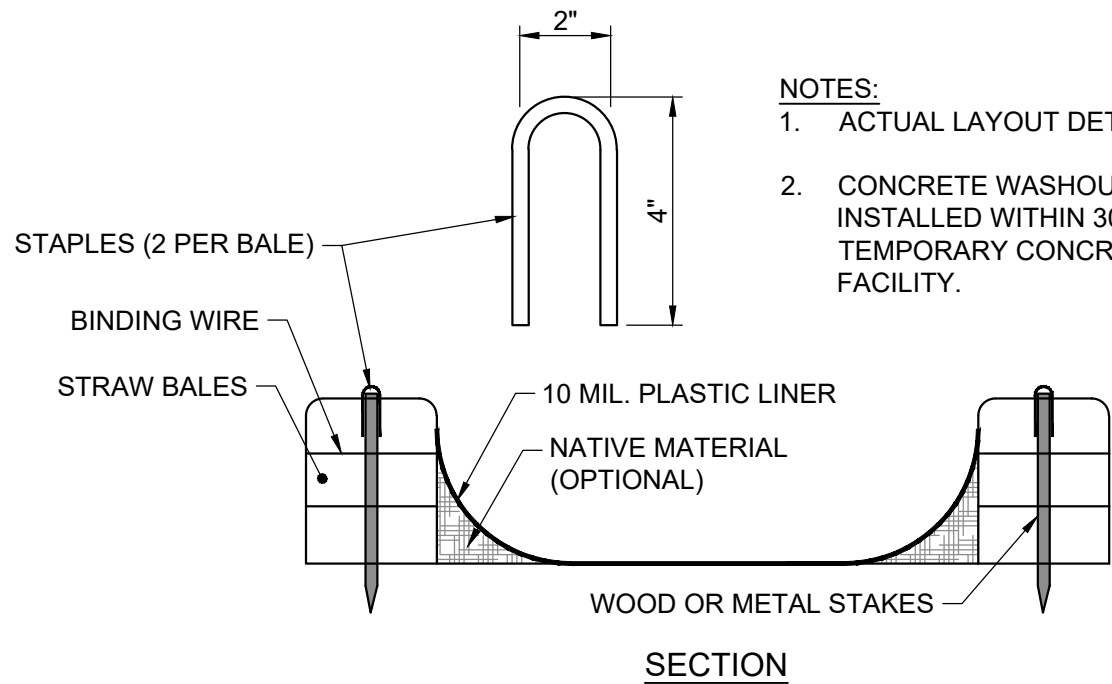
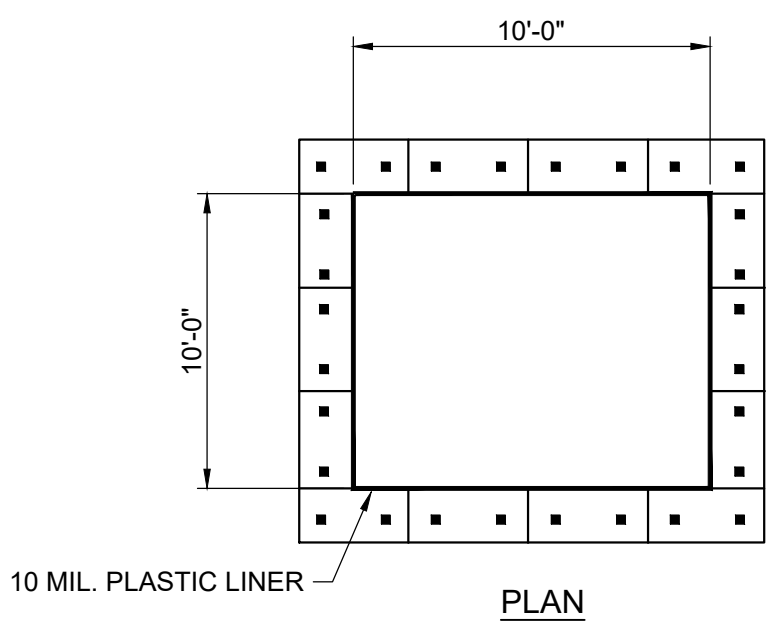
1. ESTIMATE OF 000 CY OF CUT/FILL REQUIRED. DOES NOT INCLUDE BUILDING SLAB, PAVEMENT OR SIDEWALK THICKNESS OR TOPSOIL REMOVAL. ASSUMES A 30% SHRINKAGE FACTOR FOR FILL.
2. OWNER WILL ORDER AND PAY FOR A QUALITY CONTROL AND TESTING FIRM IF DEEMED NECESSARY FOR THE PROJECT FOR COMPACTION AND MOISTURE TESTING, OR PROOFROLLING.
3. REMOVE TOPSOIL FROM ALL AREAS TO BE DISTURBED. STOCKPILE FOR LATER RESPREADING.
4. AREAS WITHIN THE INFLUENCE LINE OF BUILDING FOUNDATIONS, WALKS AND OTHER HARD FEATURES WILL REQUIRE A 95% STANDARD PROCTOR DENSITY WITH COHESIVE SOILS. NON-COHESIVE SOILS IN THESE AREAS WILL REQUIRE A 98% STANDARD PROCTOR DENSITY PER ASTM D-698. MAINTAIN MOISTURE WITHIN 0 TO 4% ABOVE OPTIMUM MOISTURE CONTENT.
5. SUBGRADE PREPARATION TO CONFORM TO SUDAS 2010.
6. DO NOT ALLOW HAULING EQUIPMENT AND OTHER TRAFFIC ON COMPLETED SUBBASE.
7. SPREAD A MINIMUM OF 4" OF TOPSOIL OVER ALL AREAS OF SITE TO RECEIVE SEEDING.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF MAJOR ROOT SYSTEMS OF EXISTING TREES TO REMAIN DURING EXCAVATION AND RE-GRADING. IF NECESSARY, CONTRACTOR SHOULD COORDINATE WITH A CERTIFIED ARBORIST FOR DIRECTION.



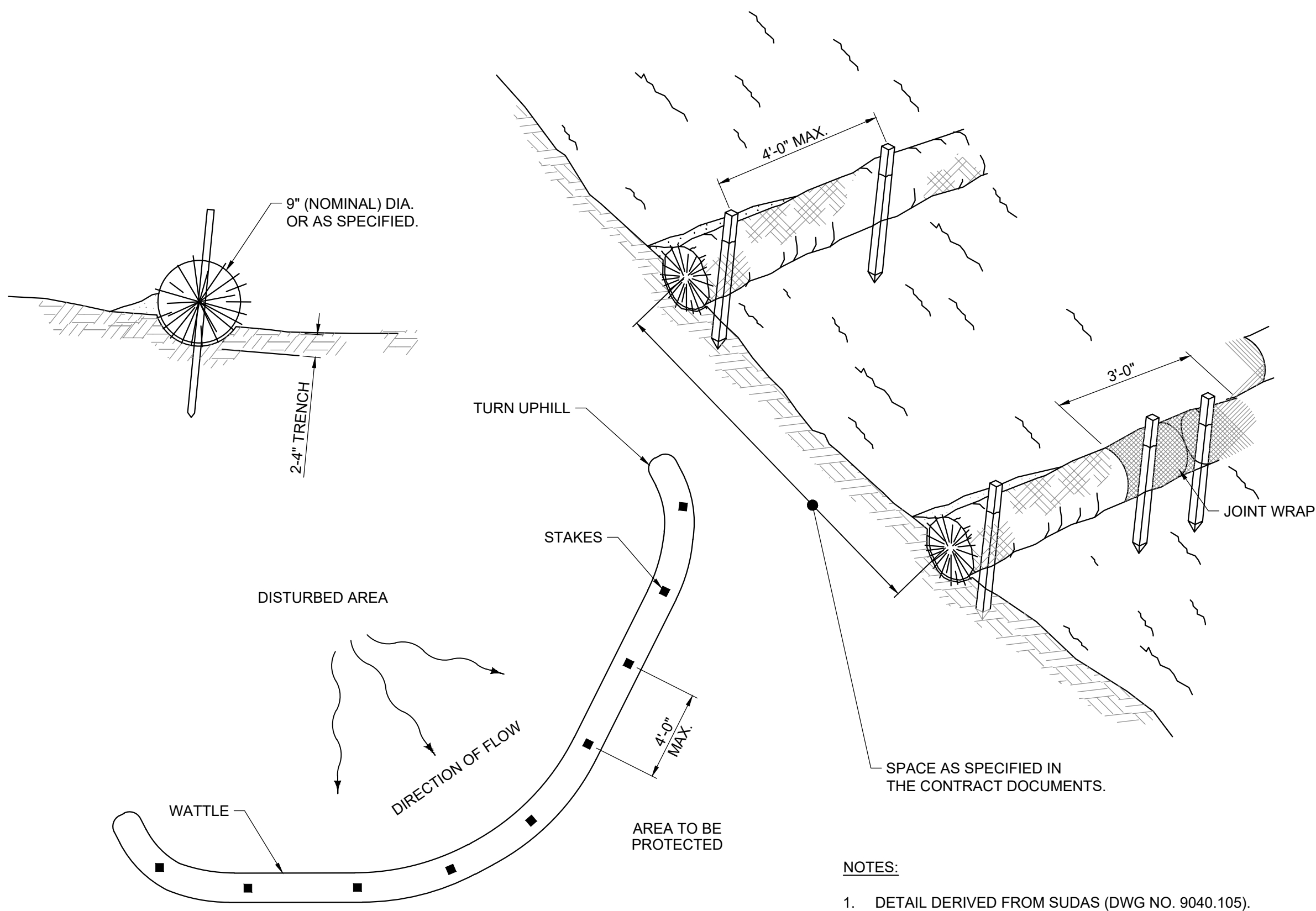
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TEMPORARY CONCRETE WASHOUT
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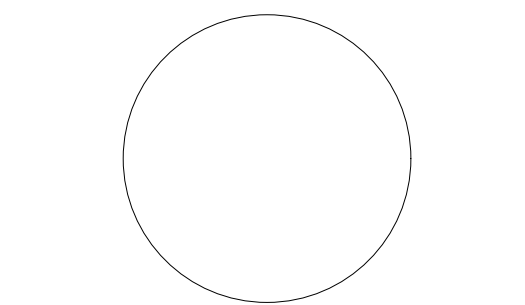
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EROSION CONTROL

DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
- IBC 2015
 - IEBC 2015
 - ASCE 7-10
 - ACI 318-14
 - ASCE 510-13
 - ASCE 360-10
 - ASIS 5100
 - AWS D1.1 AND D1.3
2. RISK CATEGORY III
3. LIVE LOADS:
- 20 PSF (REDUCIBLE)
4. TYPICAL ROOF DEAD LOADS:
- 17 PSF
5. FRAMING TOTAL:
- 21 PSF
6. SNOW:
- GROUND SNOW: 25 PSF
7. SNOW EXPOSURE FACTOR:
- 1.0
8. THERMAL FACTOR:
- 1.1
9. IMPORTANCE FACTOR:
- 1.0
10. FLAT ROOF SNOW:
- 22 PSF
11. DESIGN SNOW SURCHARGE:
- 0 PSF
12. SEE 5-001 FOR SNOW DRIFT PLAN
13. SEISMIC:
14. SEISMIC DESIGN CATEGORY:
- B
15. IMPORTANCE FACTOR:
- 1.25
16. SOIL CLASS:
- Ss
17. Ss:
- 0.04 g
18. Sd:
- 0.11 g
19. Sd:
- 0.08 g
20. SEISMIC FORCE RESISTING SYSTEM:
- ORDINARY REINFORCED MASONRY SHEAR WALLS AND LIGHT FRAMED CSF WALL SYSTEM
21. R:
- 2.0, 4.0
22. C:
- 2.5, 3.5
23. D:
- 1.75, 2.0
24. ANALYSIS PROCEDURE:
- EQUIVALENT LATERAL FORCE
25. DESIGN BASE SHEAR, STRENGTH LEVEL:
- $V = C_s W$ & $V = 0.09 W$ & $V = 2.4$ KIPS, E-W
26. WIND:
27. BASIC WIND SPEED:
- VASD = 120 MPH
28. IMPORTANCE FACTOR:
- 1.15
29. EXPOSURE CLASS:
- B
30. INTERNAL PRESSURE COEFFICIENT:
- +0.18
31. ROOF COMPONENTS:
- ZONE 1 ZONE 2 ZONE 3
32. SUPPORT BEAMS (A = 100 SF):
- 21.2 PSF 28.1 PSF 28.1 PSF
33. ROOF SHEATHING (A = 50 SF):
- 24.5 PSF 32.7 PSF 39.3 PSF
34. DECK FASTENERS (A = 10 SF):
- 25.9 PSF 43.4 PSF 65.4 PSF
35. WALL COMPONENTS:
- ZONE 1 ZONE 5
36. A = 200 SF:
- 21.1 PSF 22.5 PSF
37. A = 200 SF:
- 22.2 PSF 26.7 PSF
38. A = 200 SF:
- 25.7 PSF 31.6 PSF
39. BASE SHEAR, STRENGTH LEVEL:
- V = 35.6 KIPS, E-W V = 30.0 KIPS, N-S
40. C & C NOTES:

41. ALL PRESSURES LISTED ARE IN ACCORDANCE BC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
42. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
43. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.
44. SUBMIT DESIGN CALCULATIONS PREPARED BY A QUALIFIED PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.
45. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY PRECAST AND COLD FORM STEEL FRAMING SHEAR WALL IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE STEEL ROOF DECK SERVE AS HORIZONTAL DIAPHRAGMS TO TRANSMIT 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 SUBMITTALS SHALL BE ALLOWED WITH THE APPROVAL OF THE ARCHITECT. THE SUBMITTALS SHALL BE PROVIDED 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 WITHIN THE TOLERANCES.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHERE NO DETAILS ON ANY MEASURED NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR THE PROTECTION OF THE STRUCTURE, ETC.
10. 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, FITS, TOLERANCES, FINISHES, DEPRESSIONS, ROOF/FLOOR OPENINGS, STARS, 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 FABRICATION.
13. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS APPROVED BY THE ARCHITECT.
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. PRECAST WALL PANELS
 - e. STEEL FABRICATION AND MISCELLANEOUS METALS
 - f. JOISTS AND JOIST ORDERS
 - g. STEEL DECK
 - h. COLD FORMED STEEL FRAMING
2. HELICAL PILES
3. 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 REVIEWED BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
4. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL PERFORMANCE 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.
5. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

DELEGATED DESIGN

1. DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, AND THE DESIGN PROFESSIONALS' AND REVIEWED PRIOR TO INSTALLATION.
2. DELEGATED DESIGNS ARE:
- a. COLD FORMED STEEL FRAMING
 - b. PRECAST CONCRETE ELEMENTS AND CONNECTIONS
 - c. STEEL JOISTS AND JOIST ORDERS
 - d. CURTAIN WALL AND STOREFRONT SYSTEMS
 - e. HELICAL PILES
3. ALL DELEGATED DESIGNS SHALL BEAR THE STAMP AND SIGNATURE OF THE QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.

EXISTING CONDITIONS / DEMOLITION

1. EXISTING CONDITIONS:
- a. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED FEBRUARY 1ST, 1975 BY BRADKE HAYES MILLER ARCHITECTS

2. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND LOCATIONS AND TO CORRECT ANY DISCREPANCIES. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.
3. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY SO AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN. CONTRACTOR SHALL BRACE OR PROTECT 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 AUGUST 29RD, 2023, BY TEAM SERVICES. REPORT IS ON FILE WITH THE ARCHITECT.
2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT:
- ALLOWABLE NET SOIL BEARING PRESSURE: 1500 PSF
- ANTICIPATE DEPTH TO ALLOWABLE SOIL BEARING: 1'-0" TO 4'-0" FT BELOW EXISTING GRADE
- FROST DEPTH: 1'-6" FT (HEATED) 3'-6" FT (UNHEATED)
4. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING/BASEMENT WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS. UNITS SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 70% STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE AND THE WALL IS TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING OR BRACING.
5. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS NOT ENCOUNTERED DURING EXCAVATION. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS. UNITS SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 70% STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE AND THE WALL IS TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING OR BRACING.
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7. WHERE THERE IS NOT SUFFICIENT SPACE FOR SLOPED EMBANKMENTS, SHORING WILL BE REQUIRED. SEE THE GEOTECHNICAL REPORT FOR INFORMATION ON THE DESIGN AND INSTALLATION OF THE SHORING. SHORING THAT IS NOT PART OF THE PERMANENT BUILDING SUPPORT IS THE CONTRACTOR'S RESPONSIBILITY AND OUTSIDE THIS PERMIT.
8. CARE SHALL BE EXERCISED WHEN EXCAVATING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.
9. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, SYSTEMS AND FOUNDATIONS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ANY EXCAVATION. ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOUNDATIONS, UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
10. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL. SOIL CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL, ORGANIC MATERIAL OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL REPORT, IS EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED BELOW SLABS ON GRADE.
11. THE PREPARATION OF THE SLAB ON GRADE SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL DIRECT JOBSITE ACTIVITIES REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
12. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS FOUND. CONTRACTOR SHALL VERIFY THAT THE SOIL IS LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.
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109. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO

TESTING, INSPECTIONS, AND OBSERVATIONS

- 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.
- SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
- DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
 - 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.
 - PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
 - 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 INSPECTION WORK.
 - SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- 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:
 - POST-INSTALLED ANCHORS - INSPECTION
- 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			ACI 318: 26.6.4	
c. INSPECT ALL OTHER WELDS	X		ACI 318: 17.8.2	
d. INSPECT ANCHORS CAST IN CONCRETE			ACI 318: 17.8.2.4	
e. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			ACI 318: 17.8.2	
f. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: CH 19, 26.4.2, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
g. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 8.a			ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	
10. VERIFY USE OF REQUIRED DESIGN MIX				
11. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ACI 318: 26.5	1906.6, 1906.7, 1906.8
12. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5.3-26.5.5	
13. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5	
14. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	X		ACI 318: 26.11.2(b)	
15. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		

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 Fm	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, 2.6 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	
b. PLACEMENT OF ANCHORAGES	X		SEC. 10.8 & 10.9	
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	X		SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7	
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 STRUTS	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(a), 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.a.5, 1.4 B.2.c.3, 1.4 B.3	

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 MATCHMARKING OF CALIBRATED WRENCH METHODS OF INSTALLATION	X	X	
4. SINGLE PASS FILLET WELDS 5/16" OR LESS	X	X	
5. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	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 MATCHMARKING OF CALIBRATED WRENCH METHODS OF INSTALLATION	X	X	
4. SINGLE PASS FILLET WELDS 5/16" OR LESS	X	X	
5. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	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	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	6.4 (WELDER QUALIFICATION)
4. WELDER IDENTIFICATION	O	O	TABLE C-N5-4.1	6.4 (WELDER QUALIFICATION)
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O	O	TABLE C-N5-4.1	9.1.1.2
6. JOINT PREPARATION	O	O	TABLE C-N5-4.1	6.5.2
7. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O	TABLE C-N5-4.1	5.2.2
8. CLEANLINESS (CONDITION OF STEEL SURFACE)	O	O	TABLE C-N5-4.1	5.14
9. TACKING (TACK WELD QUALITY AND LOCATION)	O	O	TABLE C-N5-4.1	5.17
10. BACKING TYPE AND FIT (IF APPLICABLE)	O	O	TABLE C-N5-4.1	5.9, 5.21.1.1
11. 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	9.1.1.2
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
e. CONFIGURATION AND FINISH OF ACCESS HOLES	P/O ¹	O	TABLE C-N5-4.1	6.5.2, 6.16 (& SEE AWS 360 SECT. J1.6)
12. FIT-UP OF FILLET WELDS	P/O ¹	O	TABLE C-N5-4.1	5.21.1
13. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O ¹	O	TABLE C-N5-4.1	5.14
14. CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O ¹	O	TABLE C-N5-4.1	5.17
15. TACKING (TACK WELD QUALITY AND LOCATION)	P/O ¹	O	TABLE C-N5-4.1	6.2, 5.10
16. CHECK WELDING EQUIPMENT	O	O	TABLE C-N5-4.1	

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
3. PACKAGING	O	O	TABLE C-N5-4.2	5.3.1
4. EXPOSURE CONTROL	O	O	TABLE C-N5-4.2	6.3.2 (FOR SAW), 6.3.3 (FOR SAW)
5. SETTINGS ON WELDING EQUIPMENT	O	O	TABLE C-N5-4.2	5.11.1
6. WIND SPEED WITHIN LIMITS	O	O	TABLE C-N5-4.2	5.11.2
7. PRECIPITATION AND TEMPERATURE	O	O	TABLE C-N5-4.2	6.3.3, 6.5.2, 5.5, 5.20
8. WPS FOLLOWED	O	O	TABLE C-N5-4.2	
9. TRAVEL SPEED	O	O	TABLE C-N5-4.2	
10. SELECTED WELDING MATERIALS	O	O	TABLE C-N5-4.2	
11. SHIELDING GAS TYPE/FLOW RATE	O	O	TABLE C-N5-4.2	5.6, 5.7
12. PREHEAT APPLIED	O	O	TABLE C-N5-4.2	
13. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O	TABLE C-N5-4.2	
14. PROPER POSITION (F, V, H, OH)	O	O	TABLE C-N5-4.2	
15. INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	O	TABLE C-N5-4.2	6.5.2, 6.5.3, 5.23
16. WELDING TECHNIQUES	O	O	TABLE C-N5-4.2	
17. INTERPASS AND FINAL CLEANING	O	O	TABLE C-N5-4.2	5.23.1
18. EACH PASS WITHIN PROFILE LIMITATIONS	O	O	TABLE C-N5-4.2	
19. 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	5.23.1
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)
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)
h. ARC STRIKES	P	P	TABLE C-N5-4.3	5.28
i. K-AREA	P	P	TABLE C-N5-4.3	N/A
j. 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 AWS 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, 5.35
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	P	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 AND GIRDERS				
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		X		
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		

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.

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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.

4 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.

5 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

6 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.

7 PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS

8 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.

9 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

10 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.

11 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

12 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

13 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

14 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

15 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

16 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

17 PRIOR TO

STRAP WALL SCHEDULE

MARK	STRAP (50 KSI)	GUSSET TO TRACK/BLOCKING	STRAPPING TO GUSSET SCREWS	GUSSET TO CHORD STUD	APPROX GUSSET SIZE (LxHxT)	END POST	BLOCKING	HOLD-DOWNS			BOTTOM TRACK
								TYPE	ANCHOR ROD	STUD FASTENERS	
SW1	6" - 16 GA	(15) #10	(15) #10	(15) #10	25" x 15" x 16 GA	(2) 600S162-54	600S162-54	SHD85	7/8" Ø SSTB36	(17) #14 SCREWS	(2) 0.157" Ø PAF WITH 1 1/4" EMBEDMENT @ 18" OC
SW2	6" - 16 GA TWO SIDES	(25) #10	(25) #10	(15) #10	15" x 15" x 16 GA	(2) 600S162-68	600S162-54	SHD105	7/8" Ø SSTB36	(22) #14 SCREWS	(2) 0.157" Ø PAF WITH 1 1/4" EMBEDMENT @ 18" OC
SW3	6" - 16 GA	(15) #10	(15) #10	(15) #10	15" x 15" x 16 GA	(2) 600S162-68	600S162-54	SHD105	7/8" Ø SSTB36	(22) #14 SCREWS	(2) 0.157" Ø PAF WITH 1 1/4" EMBEDMENT @ 18" OC

NOTES:

- TENSION THE STRAP DURING INSTALLATION.
- IF TENSION STRAP REQUIRES SPLICING, USE THE SAME NUMBER OF CONNECTORS AS THE STRAPPING TO GUSSET ON BOTH SIDES OF THE SPLICE - SEE SCHEDULE.
- ALL STRAP WALLS TO HAVE 54 M.L.S TRACK AND STUDS.
- WHERE CHORD STUDS FOR STRAP WALL ARE IN SHARED LOCATIONS WITH HEADER JAMB STUDS, THE LARGER STUDS ARE TO BE USED.
- SEE THIS SHEET FOR ELEVATION AND TYPICAL DETAILS.
- WHEN APPLICABLE, APPLY STRAPS TO EXTERIOR SIDE.
- HOLD-DOWNS ARE SIMPSON STRONG-TIE PRODUCTS. PROVIDE SPECIFIED ITEM OR APPROVED EQUIVALENT. SEE 12/S-300.
- BOTTOM TRACK IS NOT TO BE SPLICED WITHIN STRAP WALLS.

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
10" TO 14"	#5 @ 12" OC	#5 @ 12" OC	#5 @ 18" OC	#5 @ 18" OC	-
14" OR LARGER	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	-

NOTE:

- CENTERED IN WALL THICKNESS.

HELICAL PILE REACTION SCHEDULE

(H/W)	LOAD	REMARKS
H1	15 KIPS	-

NOTES:

- LOADS ARE UNFACTORED TOTAL LOAD.
- POSITIVE LOADS ACT DOWNWARD, NEGATIVE LOADS ACT IN UPLIFT.

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING	
			LONG DIRECTION	SHORT DIRECTION
CF2.0	2'-0"	1'-0"	(3) #5	WALL DOWELS
CF3.0	3'-0"	1'-0"	(3) #5	#5 @ 12" OC
CF4.0	4'-0"	1'-0"	(4) #5	#5 @ 12" OC
CF5.0	5'-0"	1'-0"	(5) #5	#5 @ 12" OC

SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	
				LONG DIRECTION	SHORT DIRECTION
SF4.0	4'-0"	4'-0"	1'-0"	(4) #5	(4) #5
SF6.0	6'-0"	6'-0"	1'-0"	(6) #5	(6) #5
SF8.5	8'-0"	5'-0"	1'-0"	(5) #5	(6) #5

PILE CAP SCHEDULE

MARK	WIDTH	DEPTH	LENGTH	BOTTOM BARS	REINFORCING		REMARKS
					TOP BARS	STIRRUPS	
PCI	2'-0"	2'-4"	6'-0"	(4) #6	(4) #6	#6 @ 8" OC	-

NOTES:

- PROVIDE STANDARD 90° HOOK AT EACH END OF TOP AND BOTTOM BARS.
- SEE S-300 FOR TYPICAL PILE CAP DETAILS.

CMU WALL REINFORCING SCHEDULE

MARK	WALL THICKNESS	VERTICAL BAR SIZE AND SPACING	REMARKS
MW1	8"	#5 @ 48" OC	-

NOTES:

- TYP HORIZ REIN PER SPECIFICATIONS AND IS INTENDED TO BE A "BURDWALL" - TRUSS TYPE OR EQUIVALENT.
- REINFORCED CORES ARE ALWAYS GROUTED.
- SEE S400 FOR TYP CMU DETAILS.

NOTES:

- SEE S-300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
- TOP OF EXTERIOR FOOTING EL (99'-4"), UON. TOP OF INTERIOR FOOTING EL (99'-4"), UON.
- SF# AND CF# INDICATED SPREAD FOOTINGS AND CONTINUOUS FOOTINGS, RESPECTIVELY. SEE THIS SHEET FOR SCHEDULE.
- TOP OF FOUNDATION WALL EL (100'-0"), UON. SEE S-300 FOR DETAILS.
- PH INDICATES PIER, TOP OF PIER ELEVATION (99'-4"), UON. SEE S-300 FOR DETAILS.
- TOP OF PILE CAP EL (99'-2"), UON. SEE THIS SHEET FOR SCHEDULE.
- BP# INDICATES COLUMN BASE PLATE. SEE 11/S-300.
- FOR PIPING AND CONDUIT THROUGH FOUNDATIONS SEE 71/S-300. COORDINATIVE SIZE AND LOCATION WITH MECHANICAL DRAWINGS.
- ⊙ INDICATES HELICAL ANCHOR. SEE S0.00 FOR MORE INFORMATION.
- ⊙ INDICATES LOAD ON HELICAL PILE. SEE THIS SHEET FOR SCHEDULE.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
- SW# INDICATES STRAP WALL. SEE THIS SHEET FOR SCHEDULE.
- BASIS OF DESIGN FOR TYPICAL LOAD BEARING CF# STUD WALL 600S162-43 @ 16" OC. SEE S-400 FOR CF# DETAILS. SEE STRAP WALL SCHEDULE FOR STUDS WITHIN STRAP WALLS. SPACING REMAINS THE SAME.
- INDICATES STRAP WALL HOLD-DOWN. SEE 12/S-300.
- PROVIDE 2" x 2" x 4" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS. SEE DETAIL S5-300.
- OVEREXCAVATE BELOW FOOTINGS AS DIRECTED BY OWNER'S SOIL CONSULTANT. SEE 14/S-300.

KEYNOTES: (#)

- 12" PRECAST PANELS (4.4.4). 4" CONCRETE INTERIOR, 4" INSULATION, 4" CONCRETE EXTERIOR.
- HSS#4x4x8 COLUMN. SEE 21/S-300 FOR BP CONNECTION.
- 4" SLAB ON GRADE WHERE EXISTING WALLS ARE TO BE REMOVED. SEE ARCH FOR LOCATIONS. PATCH EXISTING SLAB PER S3-300.
- DOWEL HORIZONTAL FOOTING AND FOUNDATION WALL REINFORCEMENT INTO EXISTING. SEE 16/S-300.
- INFLU. CMU WALL - SEE DETAIL 14/S-400.

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RENOVATION TO
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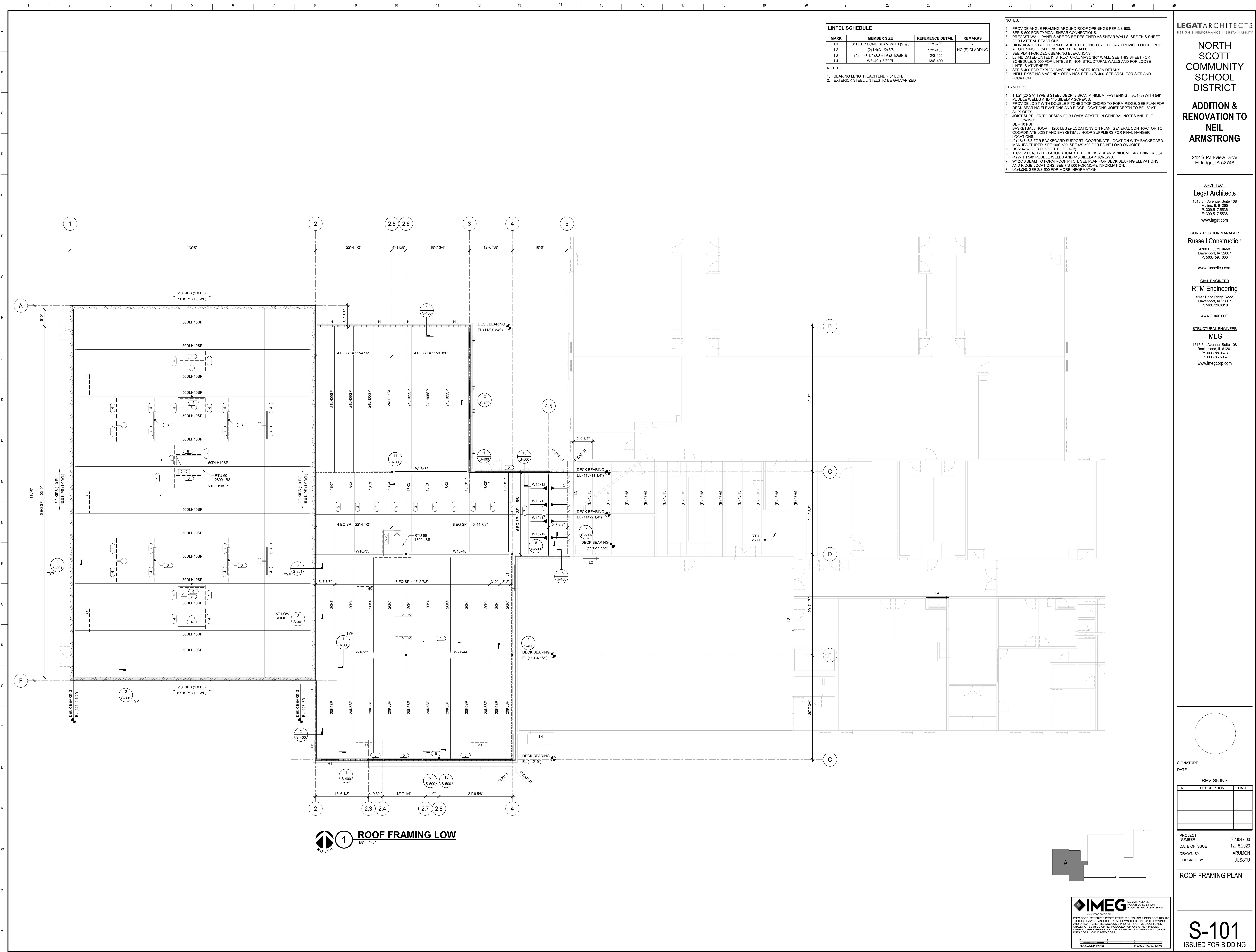
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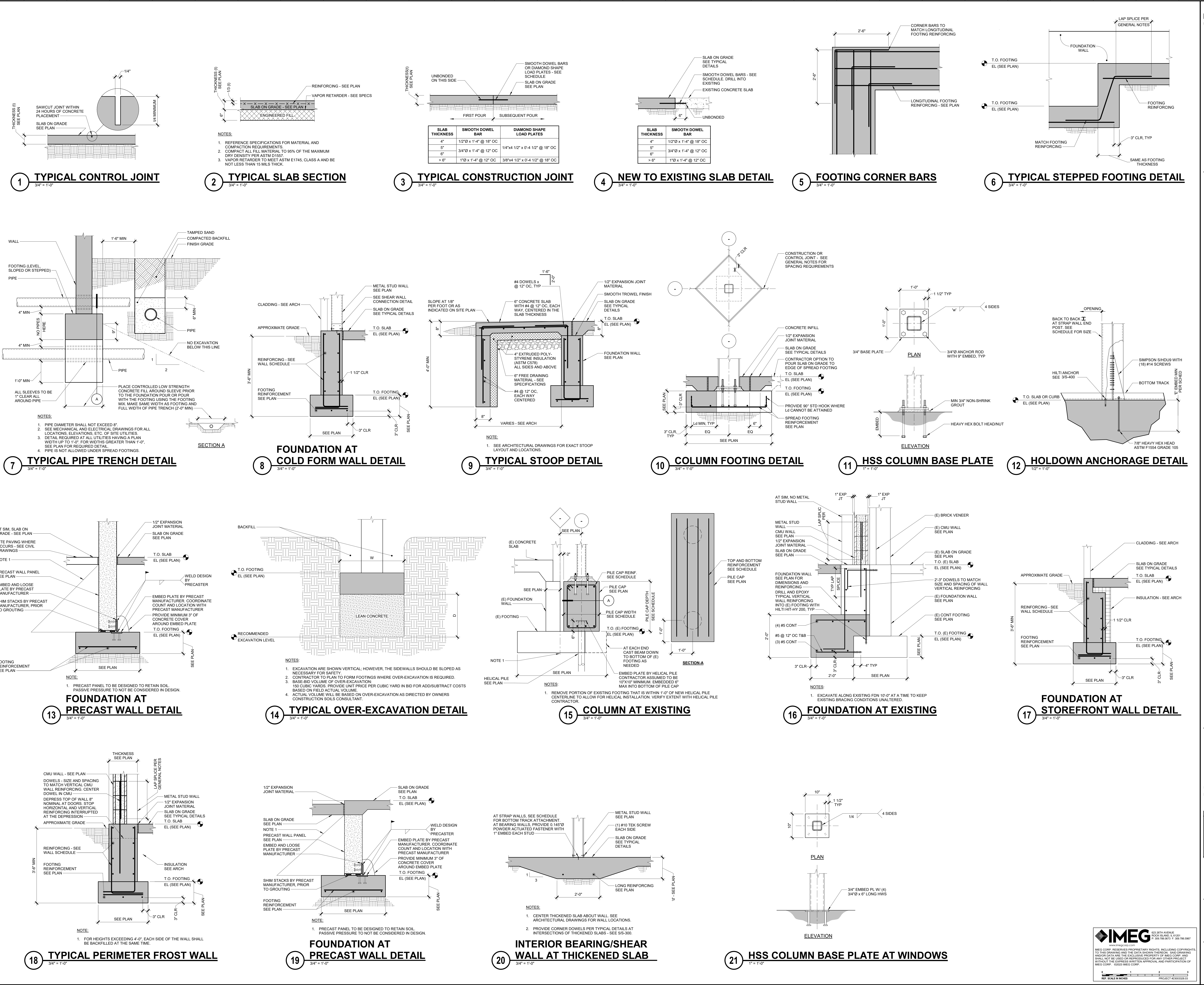
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PROJECT #223047.00
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

A B C D E F G H J K L M N P Q R S T U V W X Y



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Rock Island, IL 61201
P: 309.788.0673
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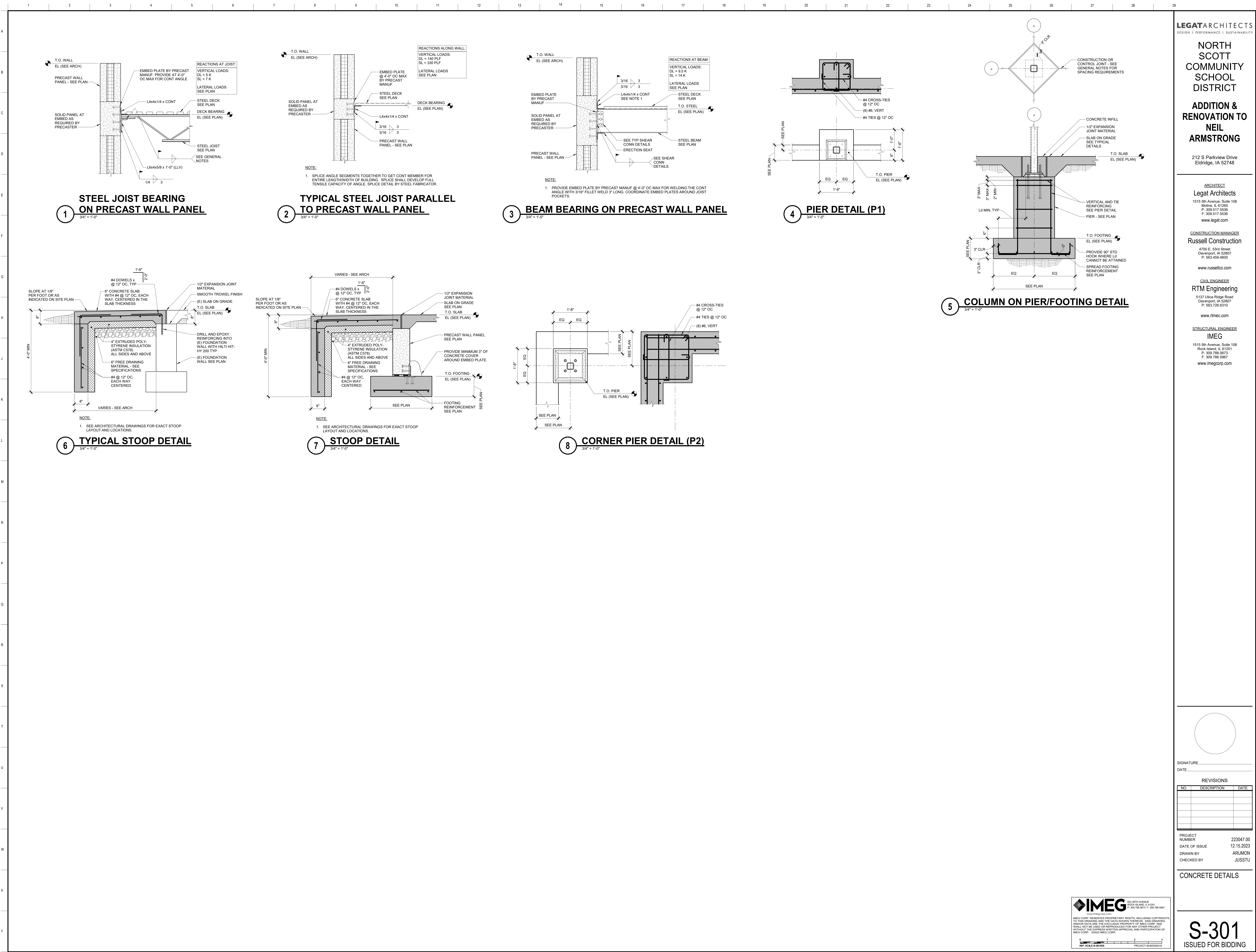
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NO.	DESCRIPTION	DATE

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DATE OF ISSUE: 12.15.2023
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1" = 1'-0"

REF. SCALE IN INCHES

PROJECT #223047.00

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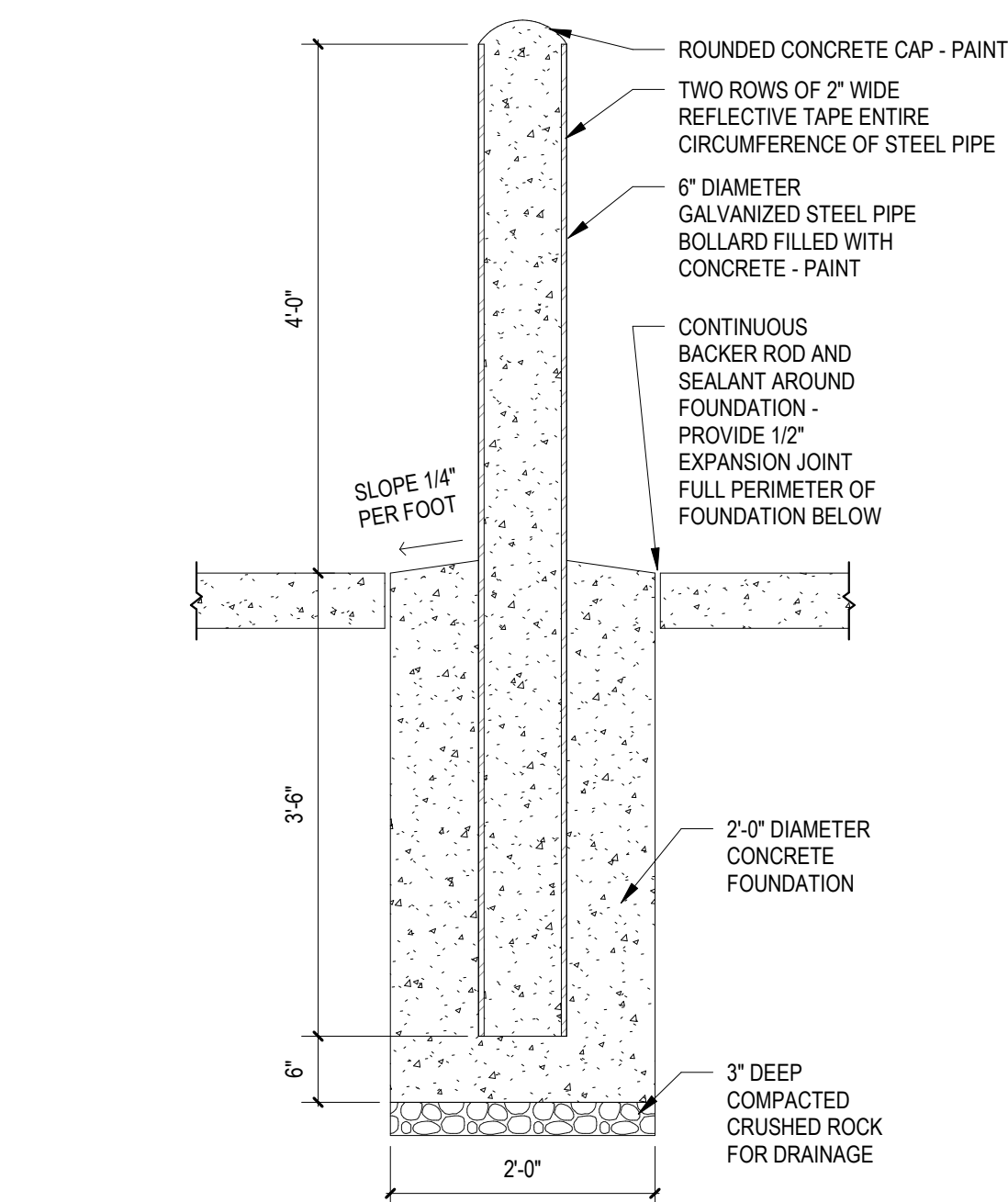
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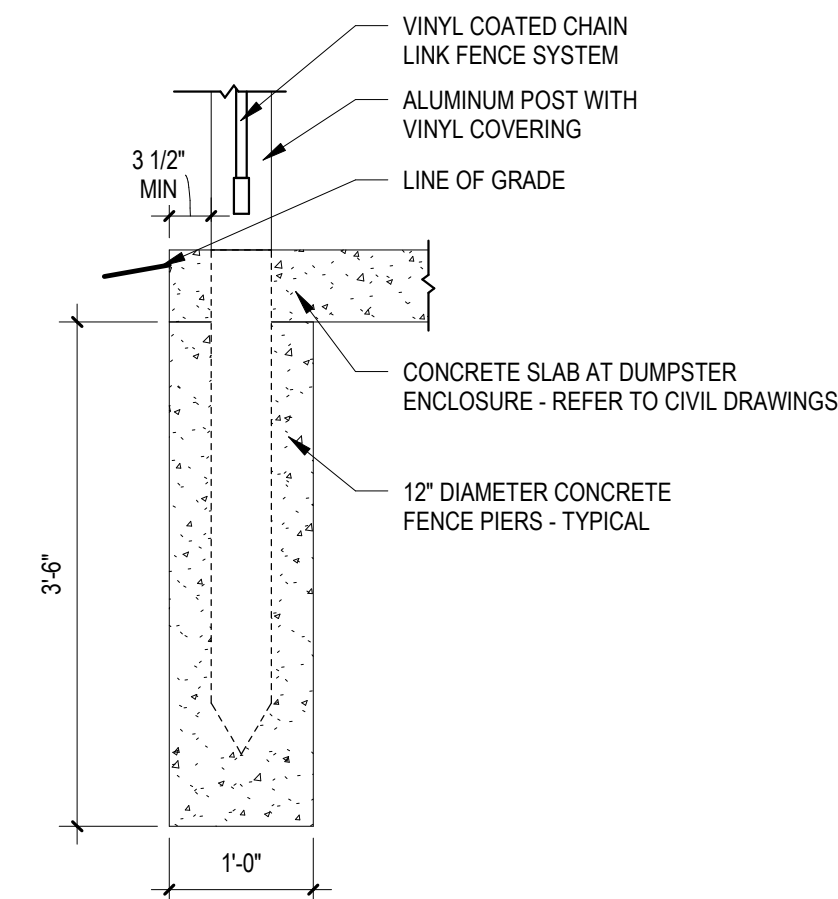
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OVERALL REFERENCE
PLAN

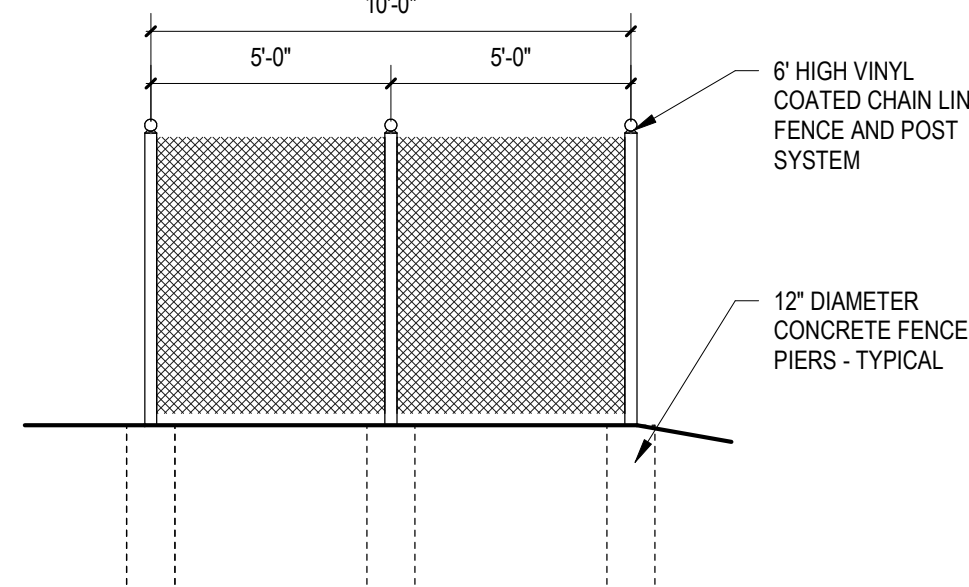
A-011
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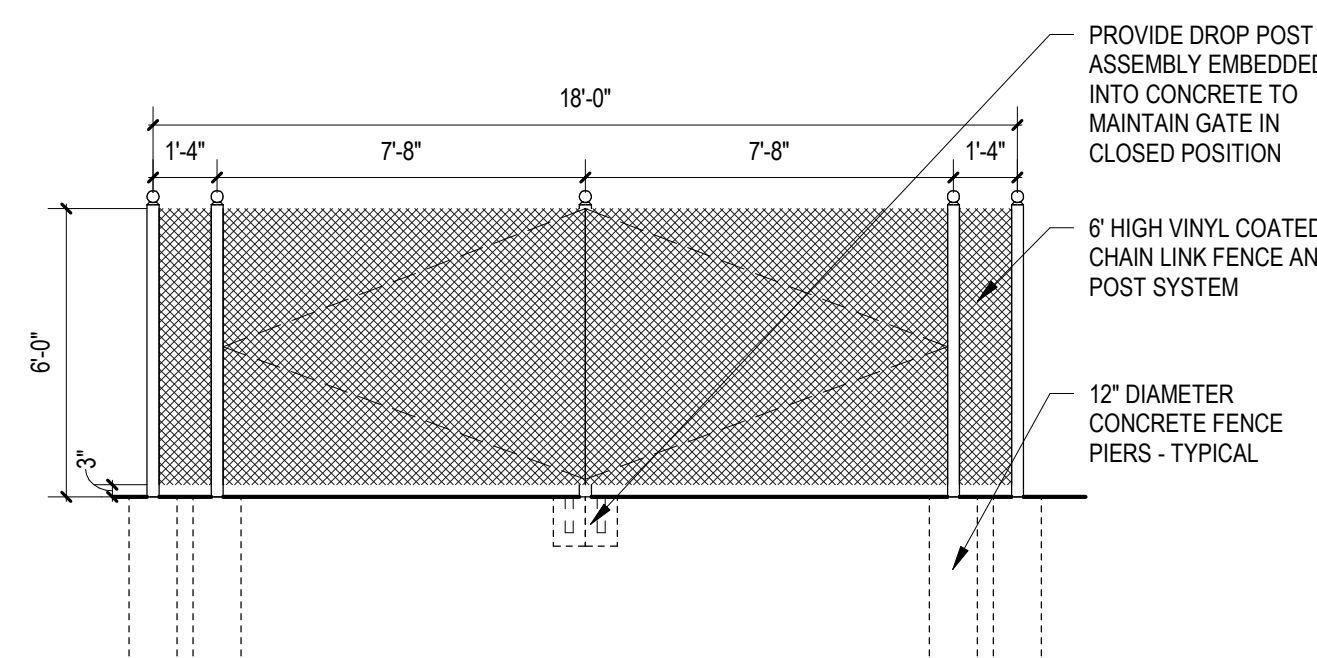
6 BOLLARD SECTION
3/4" = 1'-0" A-011



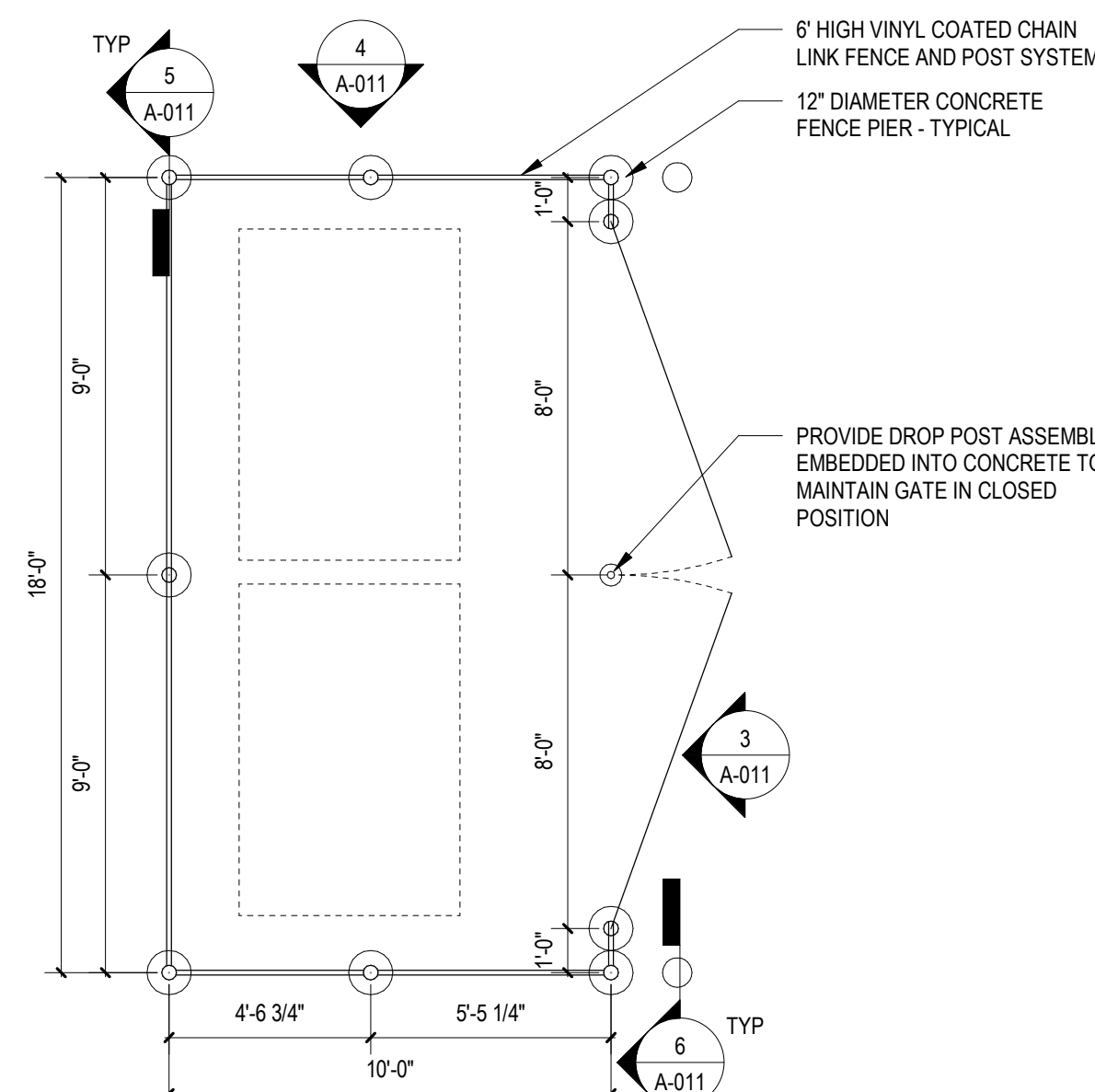
5 FENCE SECTION DETAIL
3/4" = 1'-0" A-011



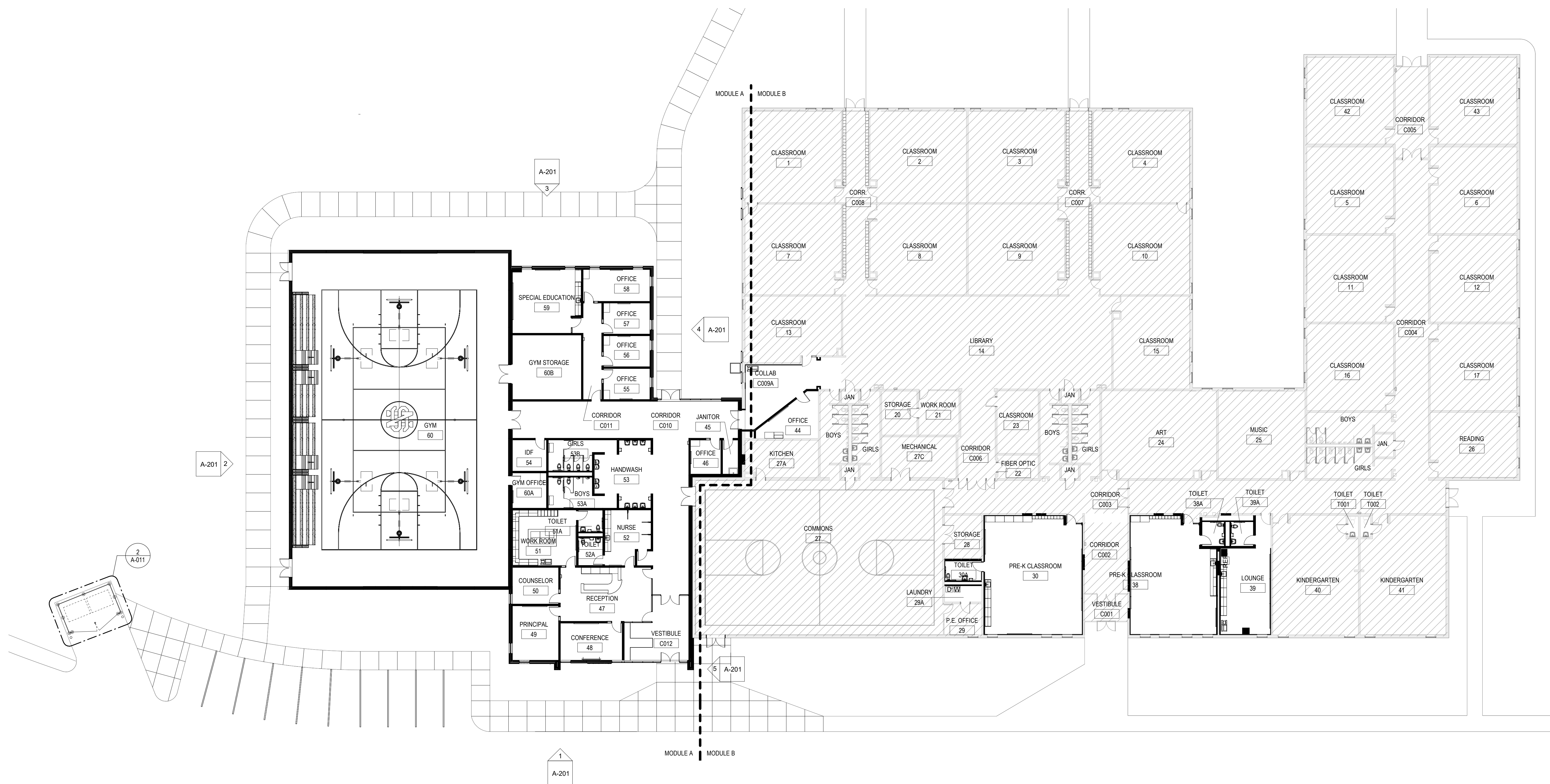
4 TRASH ENCLOSURE ELEVATION
1/4" = 1'-0" A-011



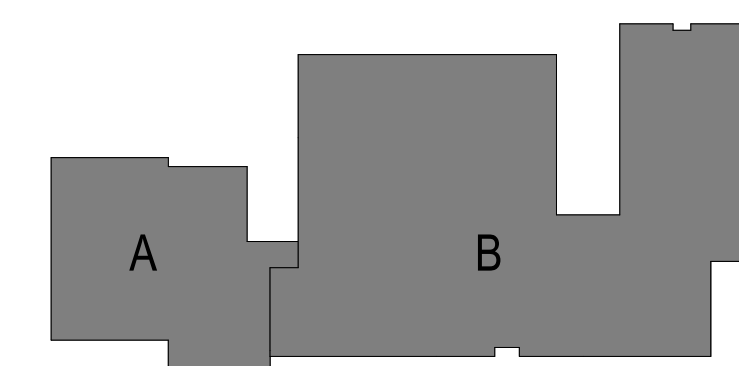
3 TRASH ENCLOSURE GATE ELEVATION
1/4" = 1'-0" A-011

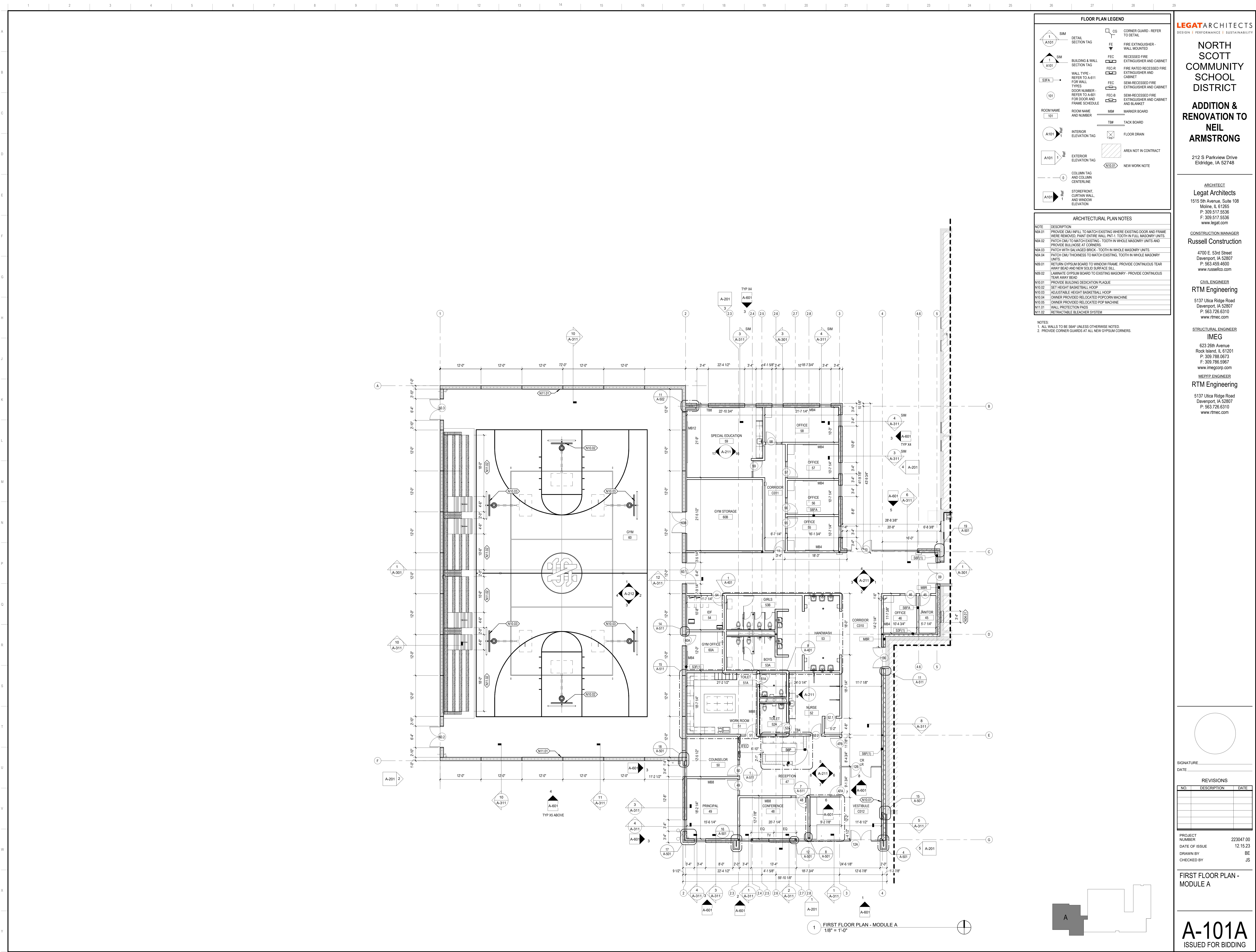


2 TRASH ENCLOSURE PLAN
1/4" = 1'-0" A-011



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





FLOOR PLAN LEGEND	
	CG CORNER GUARD - REFER TO DETAIL
	FE FIRE EXTINGUISHER - WALL MOUNTED
	FEC RECESSED FIRE EXTINGUISHER AND CABINET
	FEC-R FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
	FEC SEM-RECESSED FIRE EXTINGUISHER AND CABINET
	FEC-B SEM-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
	MB MARKER BOARD
	TBF TACK BOARD
	FLOOR DRAIN
	AREA NOT IN CONTRACT
	NEW WORK NOTE

ARCHITECTURAL PLAN NOTES	
NOTE	DESCRIPTION
N04.01	PROVIDE CMU INFILL TO MATCH EXISTING WHERE EXISTING DOOR AND FRAME WERE REMOVED. PAINT ENTIRE WALL PNT-1. TOOTH IN FULL MASONRY UNITS.
N04.02	PATCH CMU TO MATCH EXISTING - TOOTH IN WHOLE MASONRY UNITS AND PROVIDE BULLNOSE AT CORNERS.
N04.03	PATCH WITH SALVAGED BRICK - TOOTH IN WHOLE MASONRY UNITS.
N04.04	PATCH CMU THICKNESS TO MATCH EXISTING. TOOTH IN WHOLE MASONRY UNITS.
N09.01	RETURN GYPSUM BOARD TO WINDOW FRAME. PROVIDE CONTINUOUS TEAR AWAY BEAD AND NEW SOLID SURFACE SILL.
N09.02	LAMINATE GYPSUM BOARD TO EXISTING MASONRY - PROVIDE CONTINUOUS TEAR AWAY BEAD.
N10.01	PROVIDE BUILDING DEDICATION PLAQUE
N10.02	SET HEIGHT BASKETBALL HOOP
N10.03	ADJUSTABLE HEIGHT BASKETBALL HOOP
N10.04	OWNER PROVIDED RELOCATED POPCORN MACHINE
N10.05	OWNER PROVIDED RELOCATED POP MACHINE
N11.01	WALL PROTECTION PADS
N11.02	RETRACTABLE BLEACHER SYSTEM

NOTES:
1. ALL WALLS TO BE S&AF UNLESS OTHERWISE NOTED.
2. PROVIDE CORNER GUARDS AT ALL NEW GYPSUM CORNERS.

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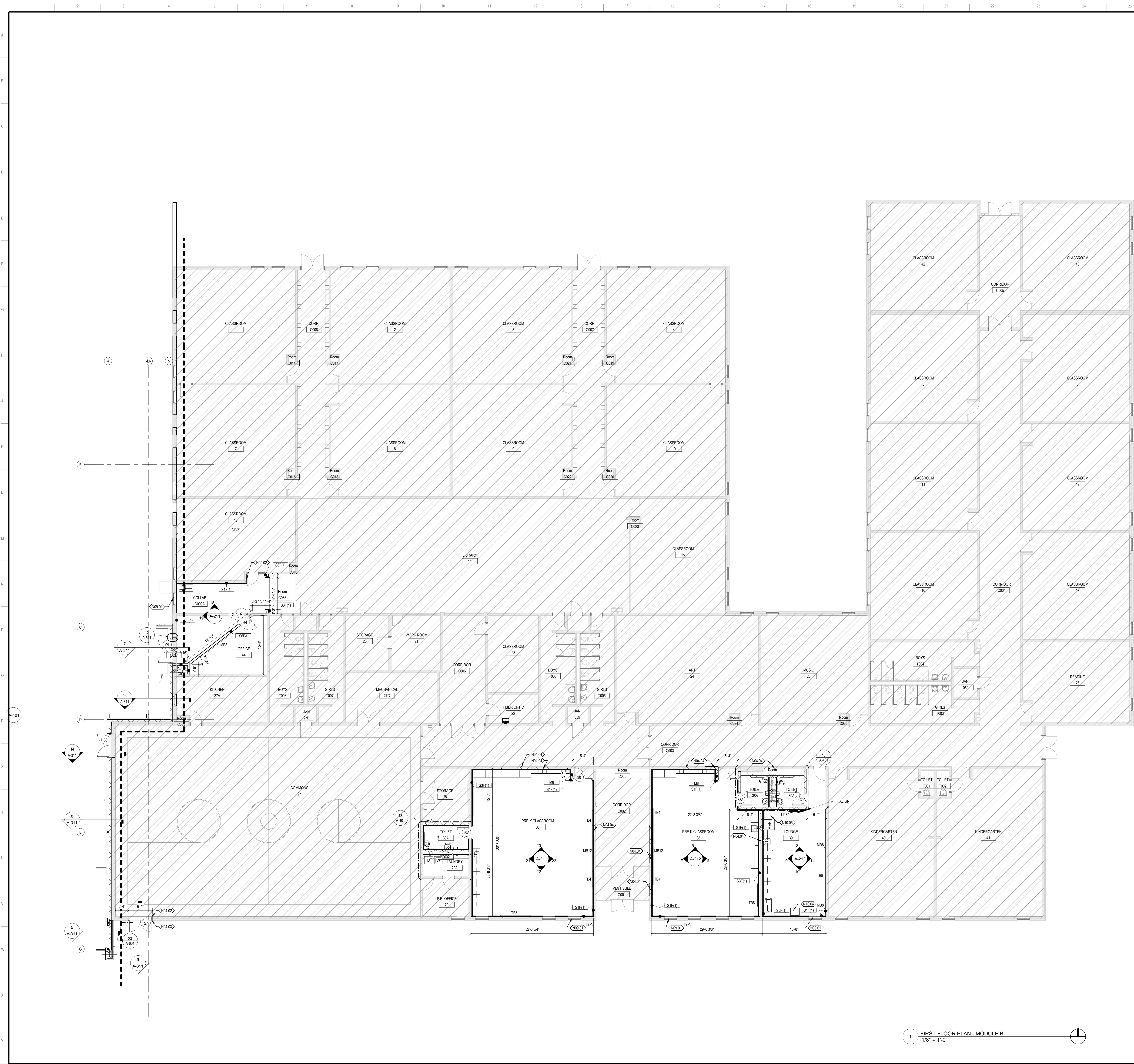
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FIRST FLOOR PLAN - MODULE A

A-101A
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FLOOR PLAN LEGEND

	SIM DETAIL SECTION TAG		CG CORNER GUARD - REFER TO DETAIL
	FE FIRE EXTINGUISHER - WALL MOUNTED		FEC RECESSED FIRE EXTINGUISHER AND CABINET
	SF BUILDING & WALL SECTION TAG		FEC-R FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
	SF-A WALL TYPE - REFER TO A-611 FOR WALL TYPES		FEC SEM-RECESSED FIRE EXTINGUISHER AND CABINET
	101 DOOR NUMBER - REFER TO A-611 FOR DOOR AND FRAME SCHEDULE		FEC-B SEM-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
	ROOM NAME AND NUMBER		MB MARKER BOARD
	A101 INTERIOR ELEVATION TAG		TB TACK BOARD
	A101 EXTERIOR ELEVATION TAG		FD FLOOR DRAIN
	0 COLUMN TAG AND COLUMN CENTERLINE		N10.01 AREA NOT IN CONTRACT
	A101 STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION		N10.02 NEW WORK NOTE

ARCHITECTURAL PLAN NOTES	
NOTE	DESCRIPTION
N04.01	PROVIDE CMU INFILL TO MATCH EXISTING WHERE EXISTING DOOR AND FRAME WERE REMOVED. PAINT ENTIRE WALL PNT-1. TOOTH IN FULL MASONRY UNITS.
N04.02	PATCH CMU TO MATCH EXISTING - TOOTH IN WHOLE MASONRY UNITS AND PROVIDE BULLNOSE AT CORNERS.
N04.03	PATCH WITH SALVAGED BRICK - TOOTH IN WHOLE MASONRY UNITS.
N04.04	PATCH CMU THICKNESS TO MATCH EXISTING. TOOTH IN WHOLE MASONRY UNITS.
N09.01	RETURN GYPSUM BOARD TO WINDOW FRAME. PROVIDE CONTINUOUS TEAR AWAY BEAD AND NEW SOLID SURFACE SILL.
N09.02	LAMINATE GYPSUM BOARD TO EXISTING MASONRY - PROVIDE CONTINUOUS TEAR AWAY BEAD.
N10.01	PROVIDE BUILDING DEDICATION PLAQUE
N10.02	SET HEIGHT BASKETBALL HOOP
N10.03	ADJUSTABLE HEIGHT BASKETBALL HOOP
N10.04	OWNER PROVIDED RELOCATED POPCORN MACHINE
N10.05	OWNER PROVIDED RELOCATED POP MACHINE
N11.01	WALL PROTECTION PADS
N11.02	RETRACTABLE BLEACHER SYSTEM

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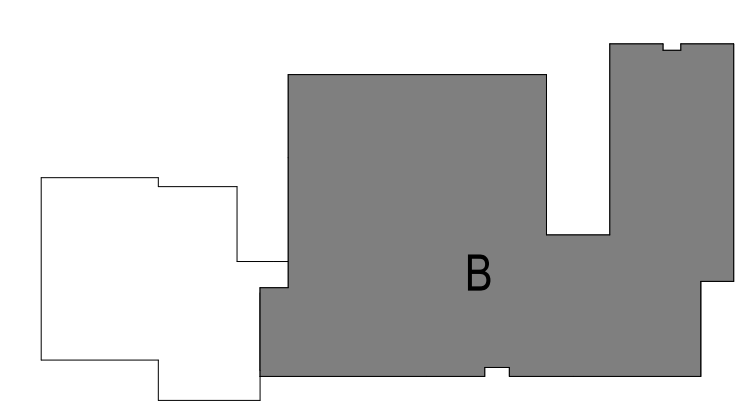
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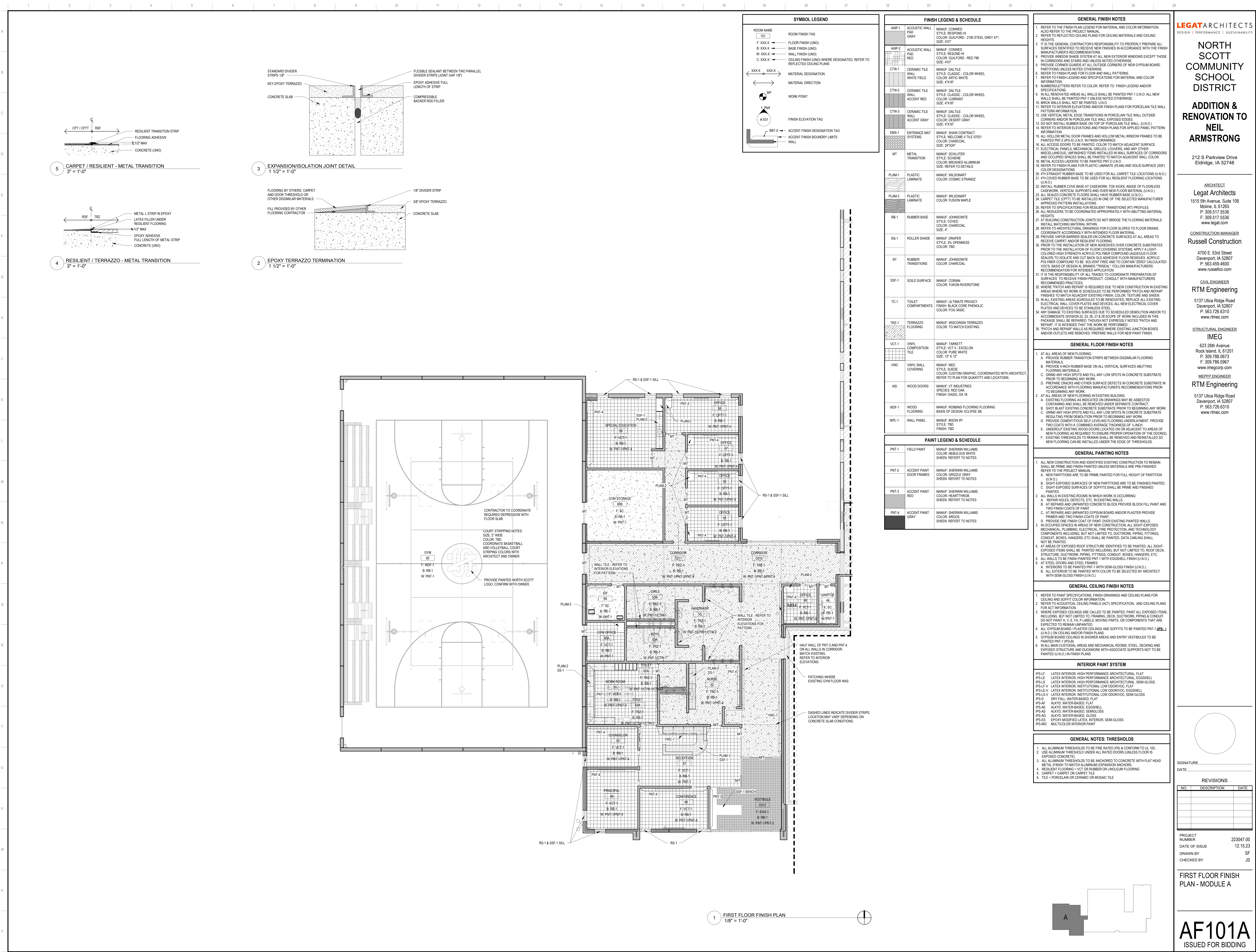
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**FIRST FLOOR PLAN -
MODULE B**

A-101B
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1 FIRST FLOOR PLAN - MODULE B
1/8" = 1'-0"





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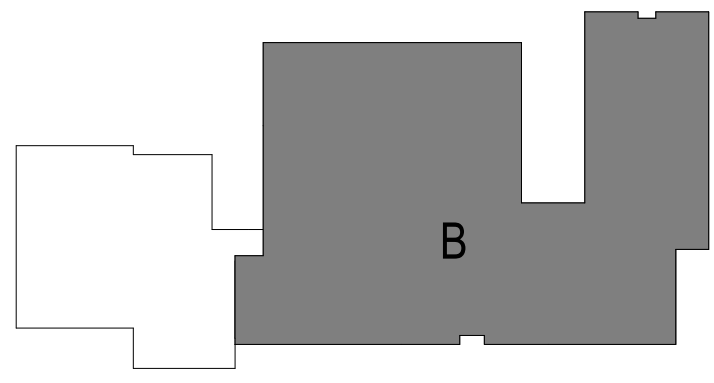
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FIRST FLOOR FINISH
PLAN - MODULE A

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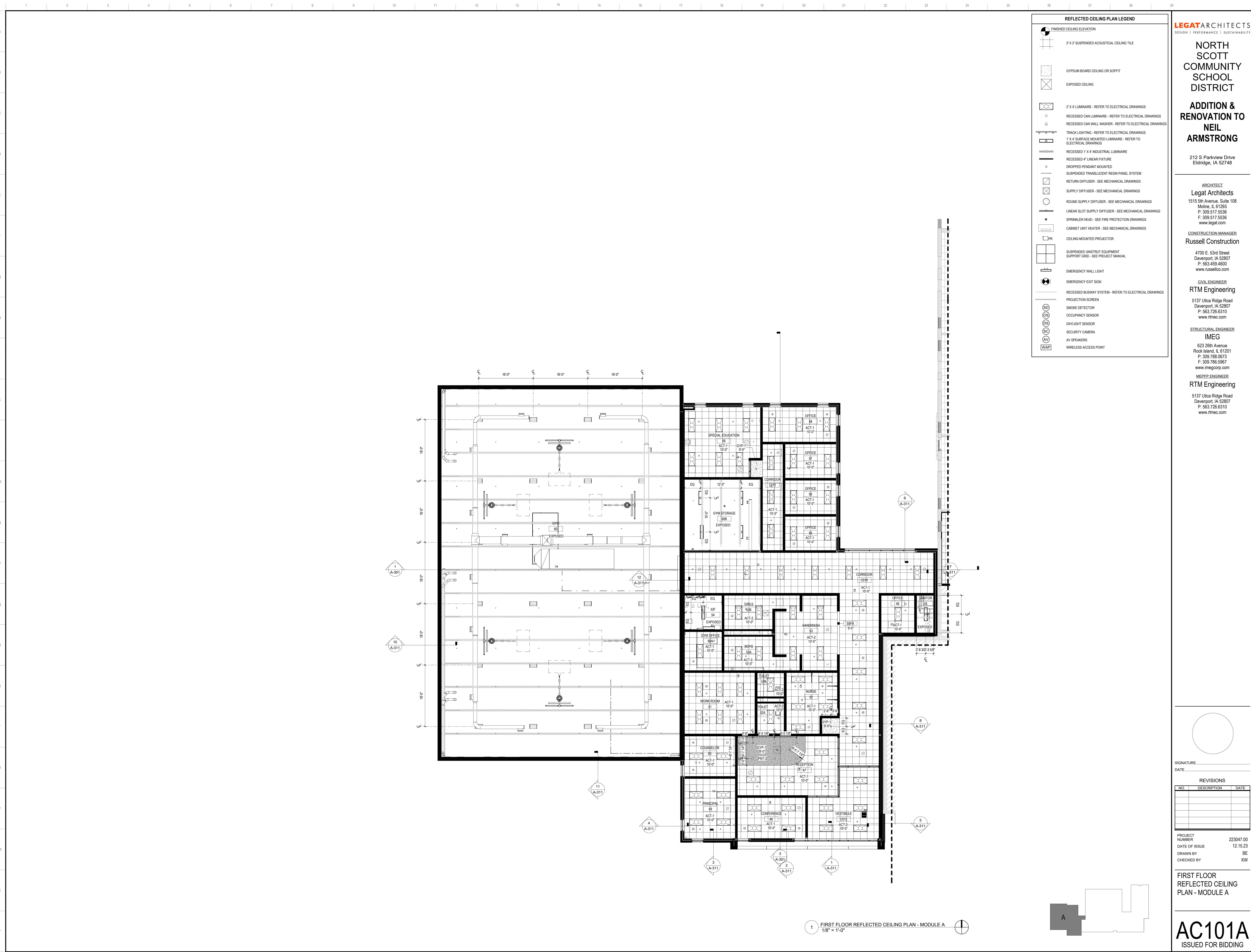
1. REFER TO THE FINISH PLAN LEGEND FOR MATERIAL AND COLOR INFORMATION.
2. ALSO REFER TO THE PROJECT MANUAL.
3. PROVIDE FINISHES TO THE FOLLOWING: FLOORING, CEILING MATERIALS AND CEILING FINISHES.
4. PROVIDE GENERAL CONTRACTOR'S RESPONSIBILITY TO PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH PLAN LEGEND.
5. PROVIDE FINISHES TO THE FOLLOWING: INTERIOR EXTERIOR WALLS EXCEPT THOSE IDENTIFIED TO RECEIVE OTHER FINISHES.
6. PROVIDE A HIGH METAL SYSTEM CROWN GUARDS AT ALL OUTSIDE CORNERS OF NEW GLASS/BAR PARTITIONS UNLESS NOTED OTHERWISE.
7. REFER TO FINISH PLAN FOR FLOORING INFORMATION.
8. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR.
9. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND COLOR INFORMATION.
10. IN ALL REMOVED AREAS ALL WALLS SHALL BE PAINTED PINT 1. UNO. ALL NEW WALLS SHALL BE PAINTED PINT 1. UNO. UNLESS NOTED OTHERWISE.
11. BRICK WALLS SHALL NOT BE PAINTED. UNO.
12. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR PORCELAIN TILE INFORMATION.
13. USE VERTICAL METAL EDGE TRANSITIONS IN PORCELAIN TILE WALLS UNLESS NOTED OTHERWISE.
14. DO NOT INSTALL RUBBER BASE ON TOP OF PORCELAIN TILE WALL. UNO.
15. PROVIDE FINISHES TO THE FOLLOWING: INTERIOR EXTERIOR WALLS AND PARTITION INFORMATION.
16. COLLECT, CLEAN, DRESS FRAMES AND HOLLOW METAL PARTITIONS TO BE PAINTED. PINT 1. (PS) UNO. IN NEW FINISHES.
17. IN ALL ACCESS DOORS TO BE PAINTED COLOR TO MATCH ADJACENT SURFACE.
18. PROVIDE FINISHES TO THE FOLLOWING: INTERIOR EXTERIOR WALLS AND PARTITION MISCELLANEOUS UNFINISHED ITEMS INSTALLED IN WALL SURFACES OR CORRIDORS.
19. PROVIDE FINISHES TO THE FOLLOWING: INTERIOR EXTERIOR WALLS AND PARTITION MISCELLANEOUS UNFINISHED ITEMS INSTALLED IN WALL SURFACES OR CORRIDORS.
20. METAL ACCESS LADDERS TO BE PAINTED PINT 1. (PS) UNO. IN NEW FINISHES.
21. PROVIDE FINISHES TO THE FOLLOWING: MISCELLANEOUS UNFINISHED ITEMS INSTALLED IN WALL SURFACES OR CORRIDORS.

GENERAL FLOOR FINISH NOTES

1. AT ALL AREAS OF NEW FLOORING:
 PROVIDE 4" RUBBER BARS AT 24" ON CENTER STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS.
 PROVIDE 4" INCH RUBBER BARS AT ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS.
 GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE.
 PROVIDE SMOOTH FINISH TO ALL FLOORING MATERIALS.
 PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTRATE IN ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF FLOORING MATERIALS.
2. AT ALL AREAS OF NEW FLOORING IN EXISTING BUILDING:
 EXISTING FLOORINGS AS NOTED ON DRAWINGS MAY BE ABLE TO CONTAIN AND SEAL IN PLACE. PROVIDE UNDERLAYER CONTRAST STRIP MOST EXISTING CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY FLOORING.
 GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE.
 PROVIDE SMOOTH FINISH TO ALL FLOORING MATERIALS.
 PROVIDE CEMENTITIOUS SELF-LEVELING FLOORING UNDERLAYER. PROVIDE TWO COATS WITH A COMBINATION OF BRUSH AND ROLLER.
 UNDERCUT JOINTS/DOOR DOORS LOCATED ON OR ADJACENT TO AREAS OF NEW FLOORING REQUIRED TO ENSURE PROPER OPERATION OF THE DOORS).
 THE FLOORING SHALL BE REMOVED AND REINSTALLED IF NEW FLOORING CAN BE INSTALLED UNDER THE EDGE OF THRESHOLDS.

Davenport, IA 52807

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REFLECTED CEILING PLAN LEGEND	
	2' X 2' 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
	RECESSED CAN WALL WASHER - REFER TO ELECTRICAL DRAWINGS
	TRACK LIGHTING - REFER TO ELECTRICAL DRAWINGS
	1' X 4' SURFACE MOUNTED LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
	RECESSED 1' X 4' INDUSTRIAL LUMINAIRE
	RECESSED 4' LINEAR FIXTURE
	DROPPED PENDANT MOUNTED
	SUSPENDED TRANSLUCENT RESIN PANEL SYSTEM
	RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
	SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
	ROUND SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
	LINEAR SLOT SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
	SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
	CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
	CEILING MOUNTED PROJECTOR
	SUSPENDED UNISTRUT EQUIPMENT SUPPORT GRID - SEE PROJECT MANUAL
	EMERGENCY WALL LIGHT
	EMERGENCY EXIT SIGN
	RECESSED BUSWAY SYSTEM - REFER TO ELECTRICAL DRAWINGS
	PROJECTION SCREEN
	SMOKE DETECTOR
	OCCUPANCY SENSOR
	DAYLIGHT SENSOR
	SECURITY CAMERA
	AV SPEAKERS
	WIRELESS ACCESS POINT

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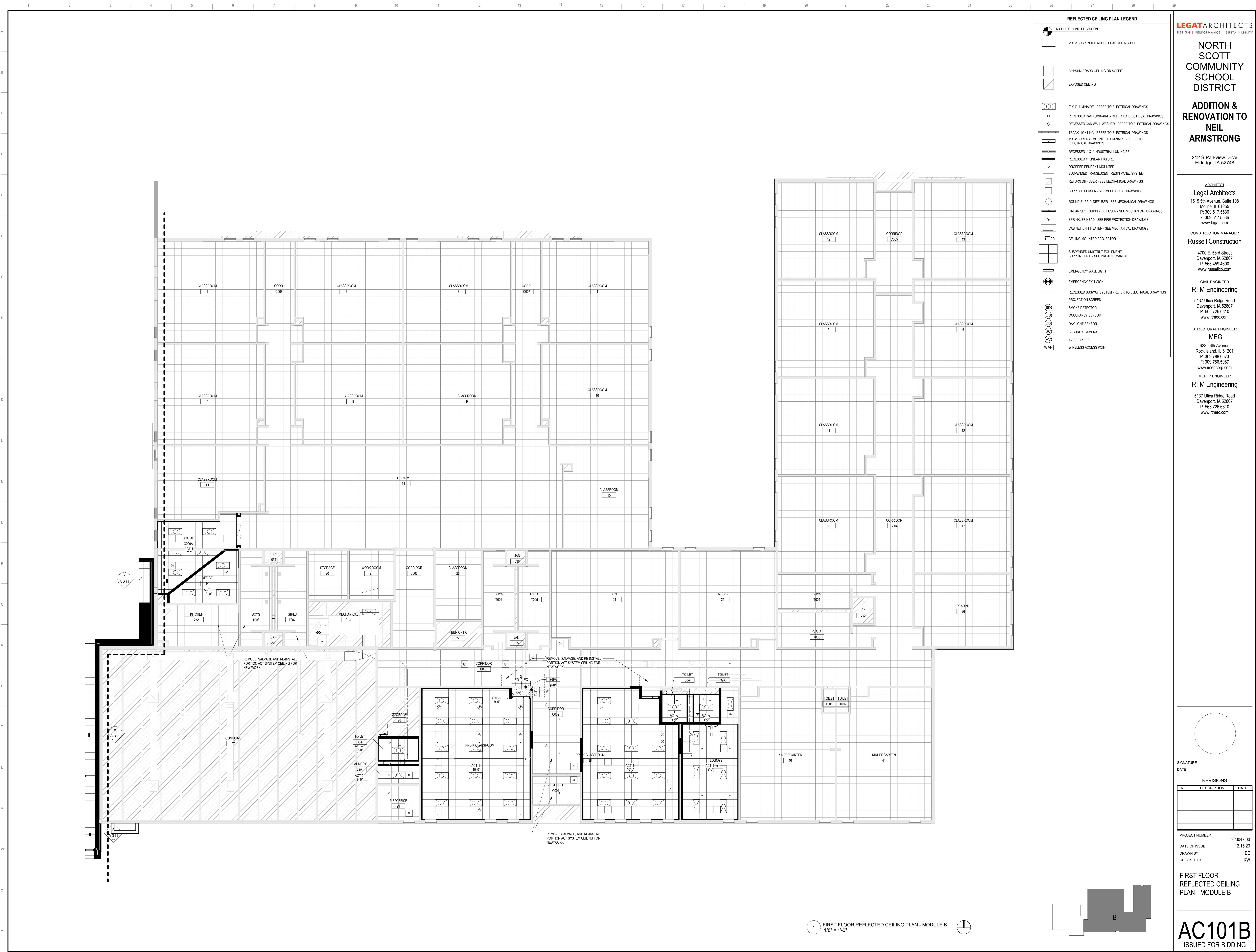
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FIRST FLOOR
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PLAN - MODULE A

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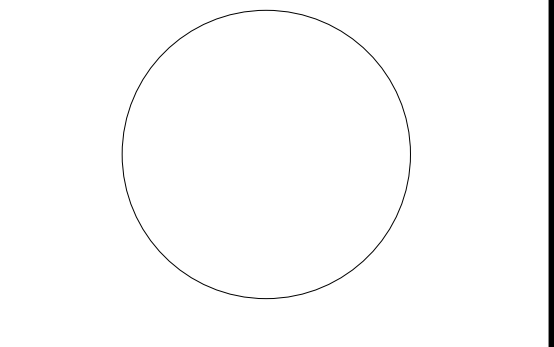
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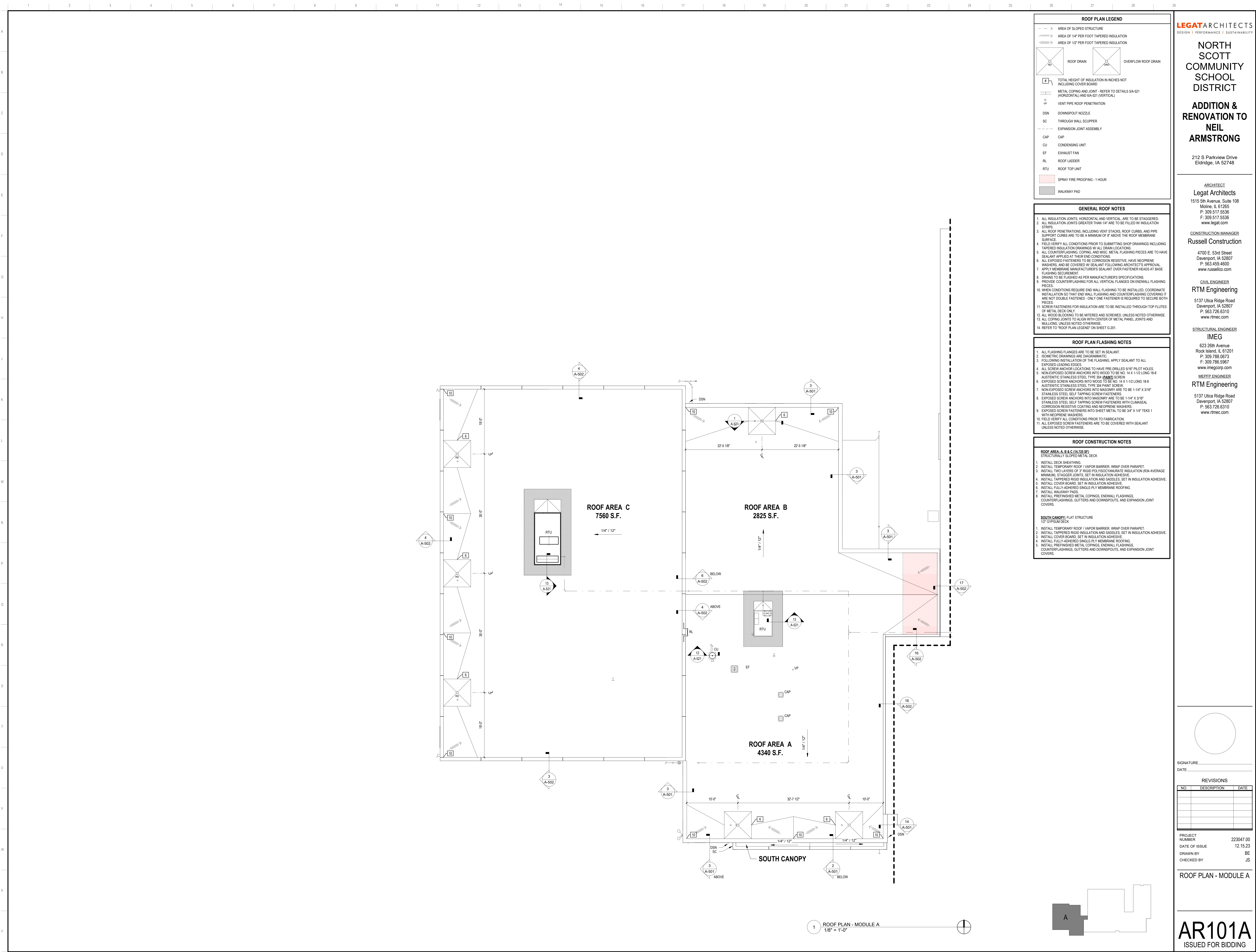
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FIRST FLOOR
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PLAN - MODULE B

AC101B
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NO.	DESCRIPTION	DATE

PROJECT
NUMBER223047.00

DATE OF ISSUE12.15.23

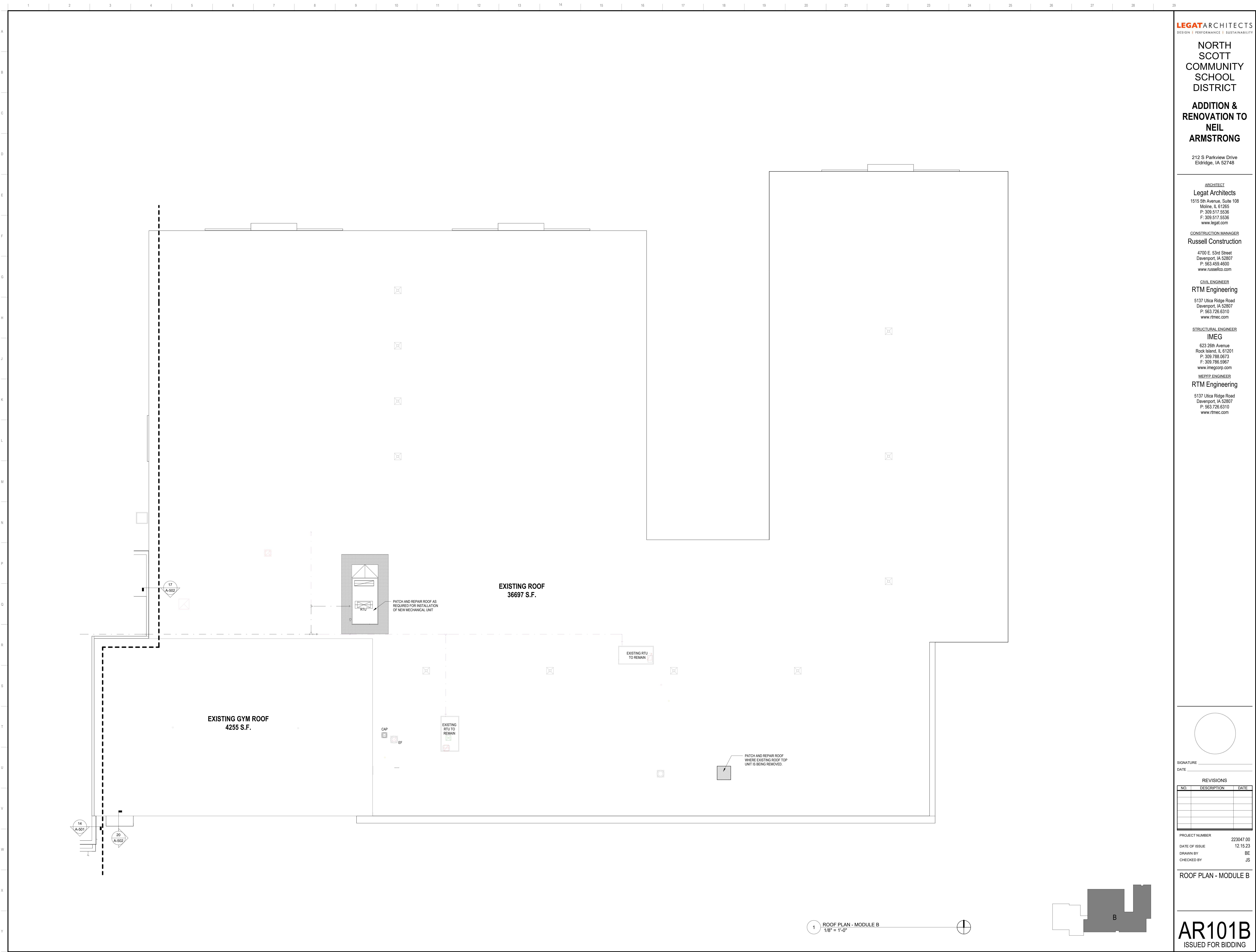
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ROOF PLAN - MODULE A

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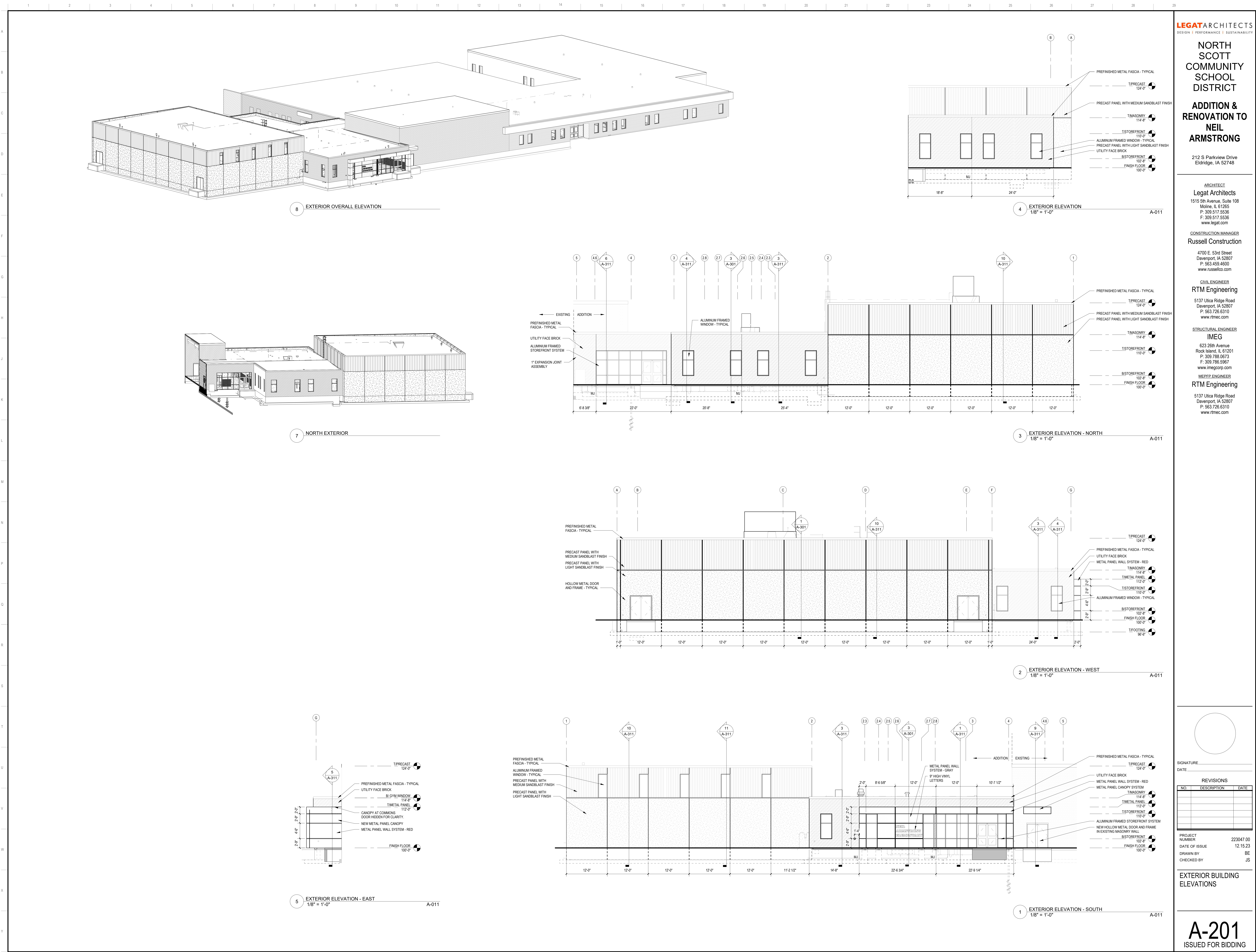
REVISIONS

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PROJECT NUMBER 223047.00
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ROOF PLAN - MODULE B

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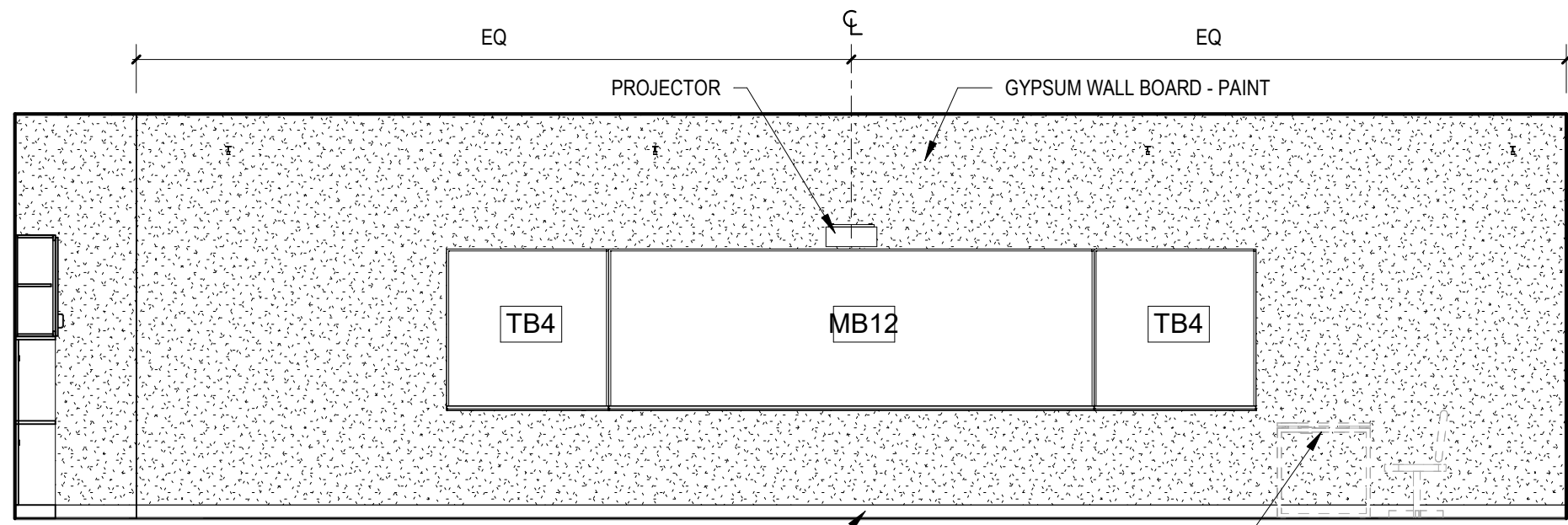
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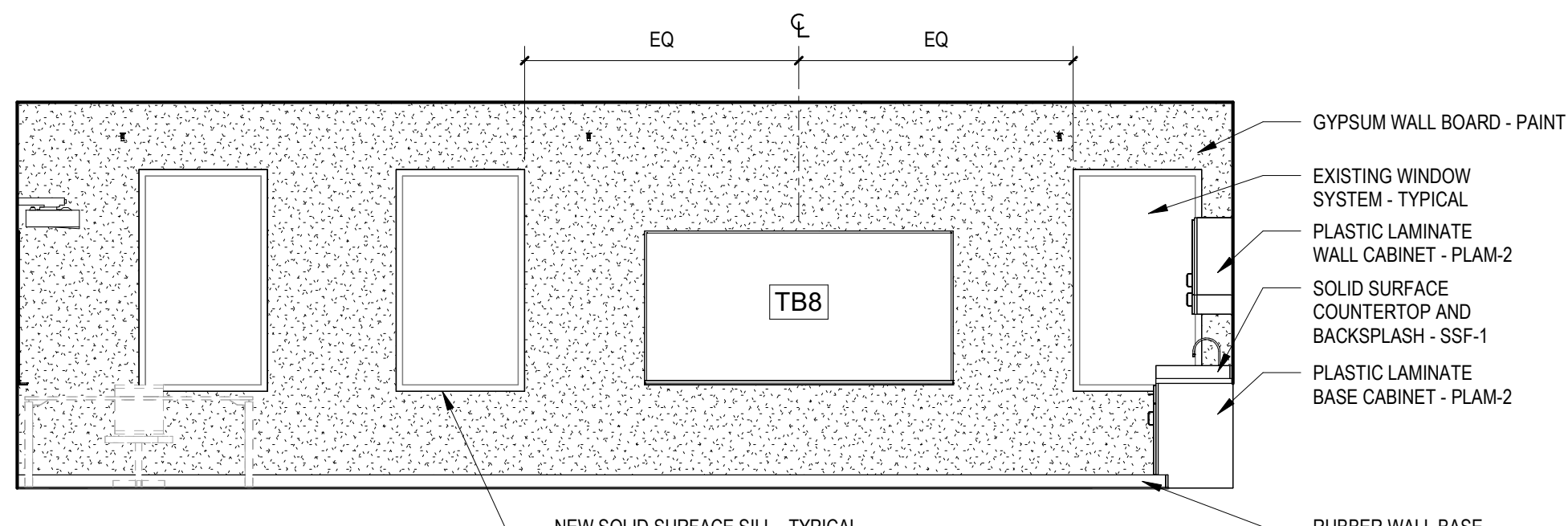
**EXTERIOR BUILDING
ELEVATIONS**

A-201
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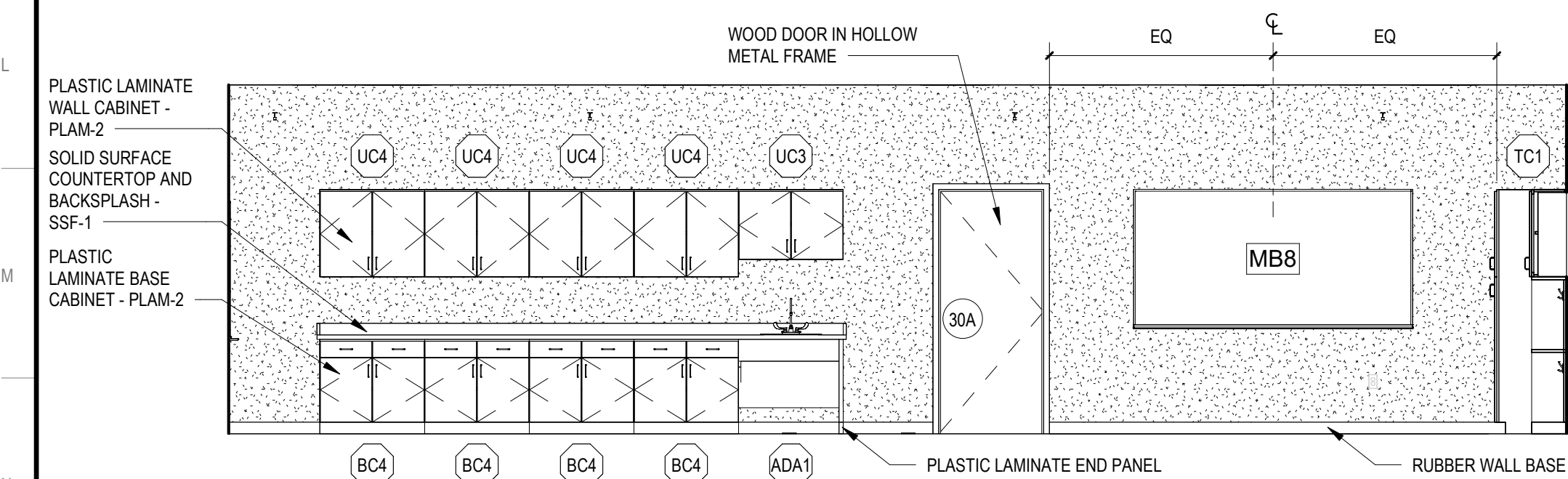
CASEWORK SCHEDULE				
TYPE	DESCRIPTION	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)
ADA1	ADA SINK PANELS	36	36	24
ADA2	PLASTIC LAMINATE ADA SINK BASE PANEL	36	34	24
BC1	PLASTIC LAMINATE BASE CABINET - (4) LOCKABLE DRAWERS	18	32.5	24
BC2	PLASTIC LAMINATE BASE CABINET - (1) LOCKABLE DRAWER, (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF	18	32.5	24
BC3	PLASTIC LAMINATE BASE CABINET - (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	36	32.5	24
BC4	PLASTIC LAMINATE BASE CABINET - (2) LOCKABLE DRAWERS, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	36	32.5	24
BC5	PLASTIC LAMINATE BASE CABINET - (2) LOCKABLE DRAWERS, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	40	32.5	24
BC6	PLASTIC LAMINATE BASE CABINET - (4) LOCKABLE DRAWERS	18	28.5	24
BC7	PLASTIC LAMINATE BASE CABINET - (2) LOCKABLE DRAWERS, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	42	32.5	24
BC8	PLASTIC LAMINATE BASE CABINET - (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	36	28.5	24
CB1	OPEN CUBBY SHELVEING - (3) UNITS HIGH BY (3) UNITS WIDE, (7) DOUBLE COATS HOOKS ABOVE			
MX	PLASTIC LAMINATE MAILBOXES - (9) UNITS HIGH BY (6) UNITS WIDE			
TC1	PLASTIC LAMINATE TALL CABINET - (4) LOCKABLE DOORS, (5) ADJUSTABLE SHELVES	36	64	24
TC2	PLASTIC LAMINATE TALL CABINET - (2) LOCKABLE DOORS, (5) ADJUSTABLE SHELVES	45	64	24
UC1	PLASTIC LAMINATE WALL CABINET - (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF	18	30	12
UC2	PLASTIC LAMINATE WALL CABINET - (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF	24	30	12
UC3	PLASTIC LAMINATE WALL CABINET - (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	36	24	12
UC4	PLASTIC LAMINATE WALL CABINET - (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	36	30	12
UC5	PLASTIC LAMINATE WALL CABINET - (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	40	30	12



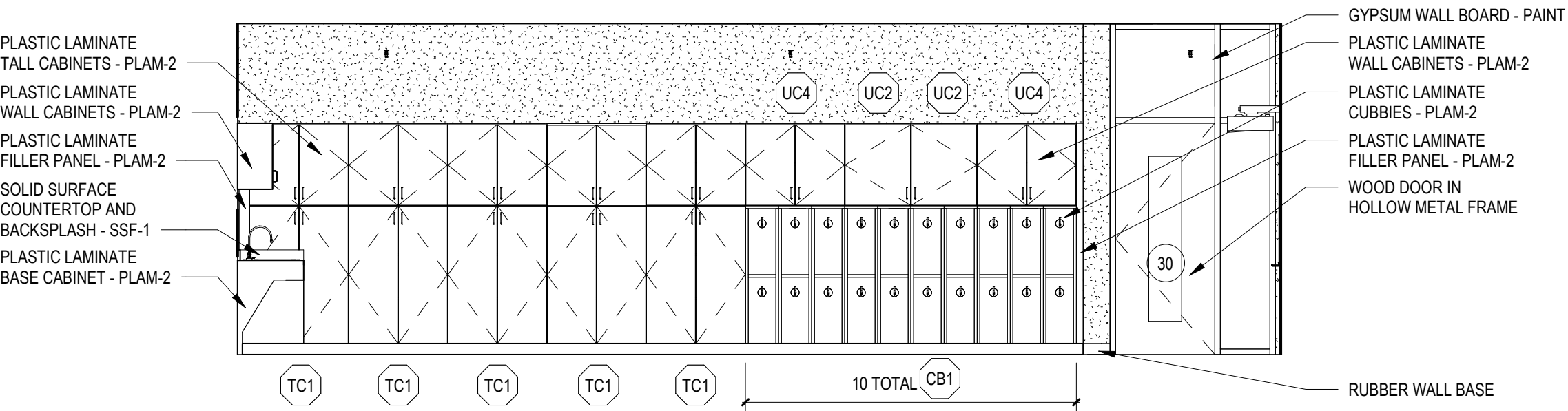
23 INTERIOR ELEVATION - PRE-K 30
1/4" = 1'-0"



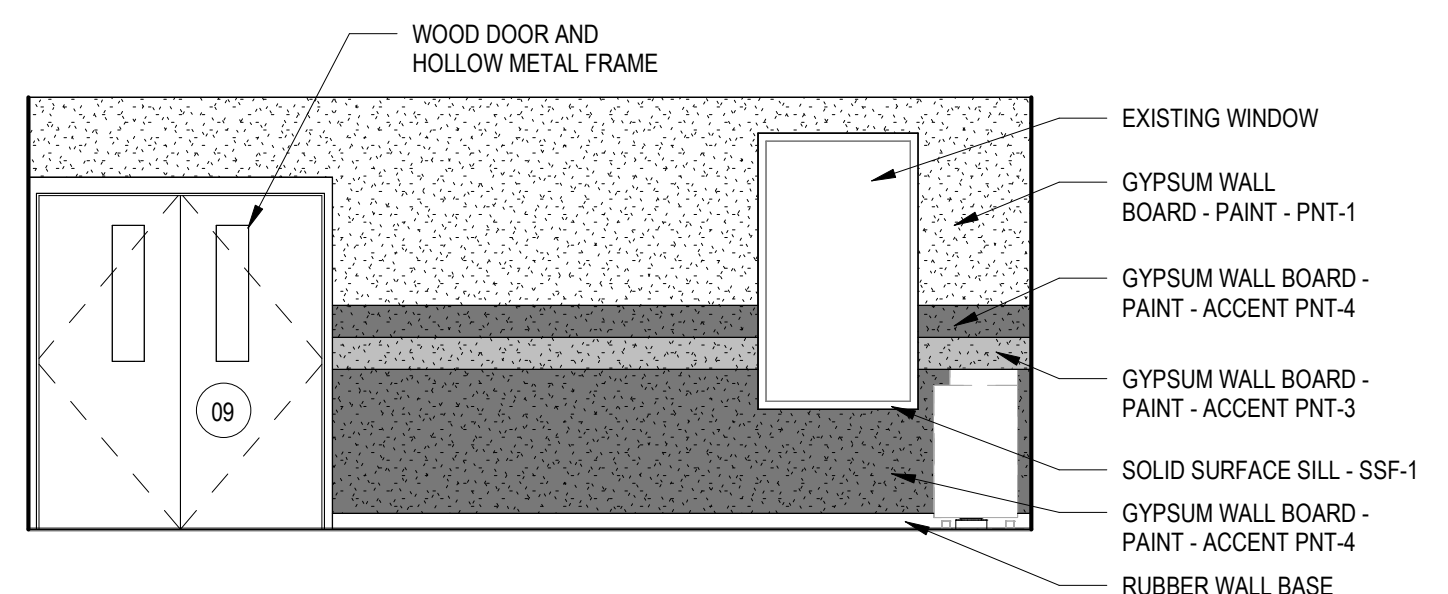
22 INTERIOR ELEVATION - PRE-K 30
1/4" = 1'-0"



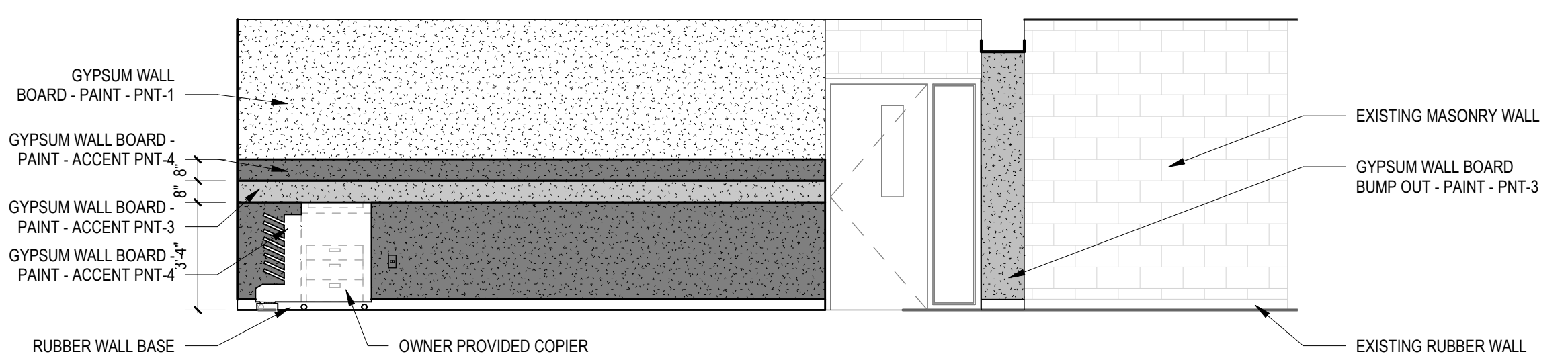
21 INTERIOR ELEVATION - PRE-K 30
1/4" = 1'-0"



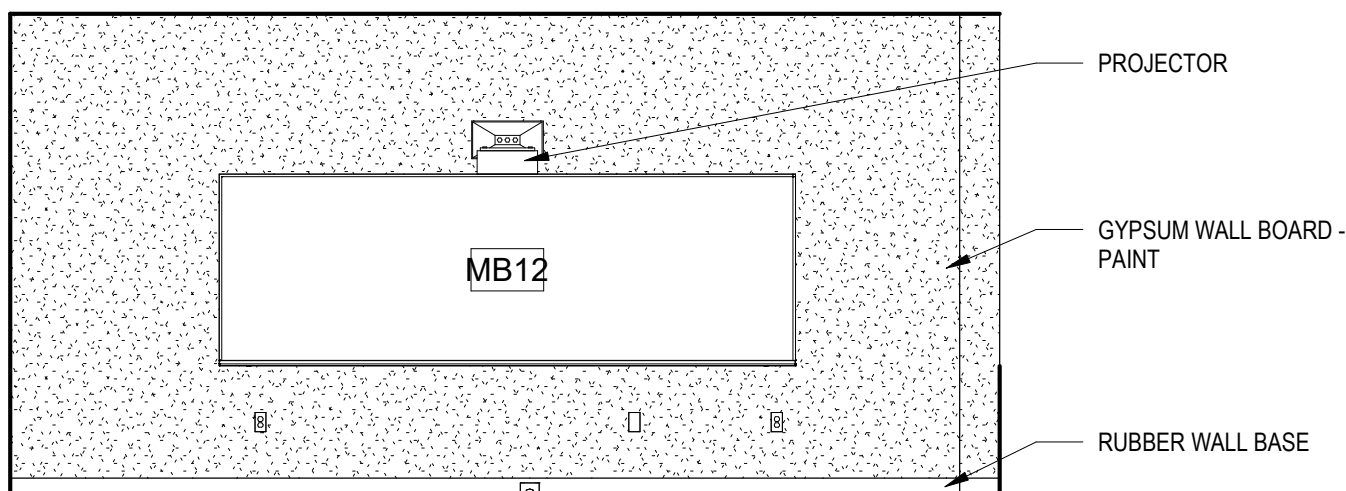
20 INTERIOR ELEVATION - PRE-K 30
1/4" = 1'-0"



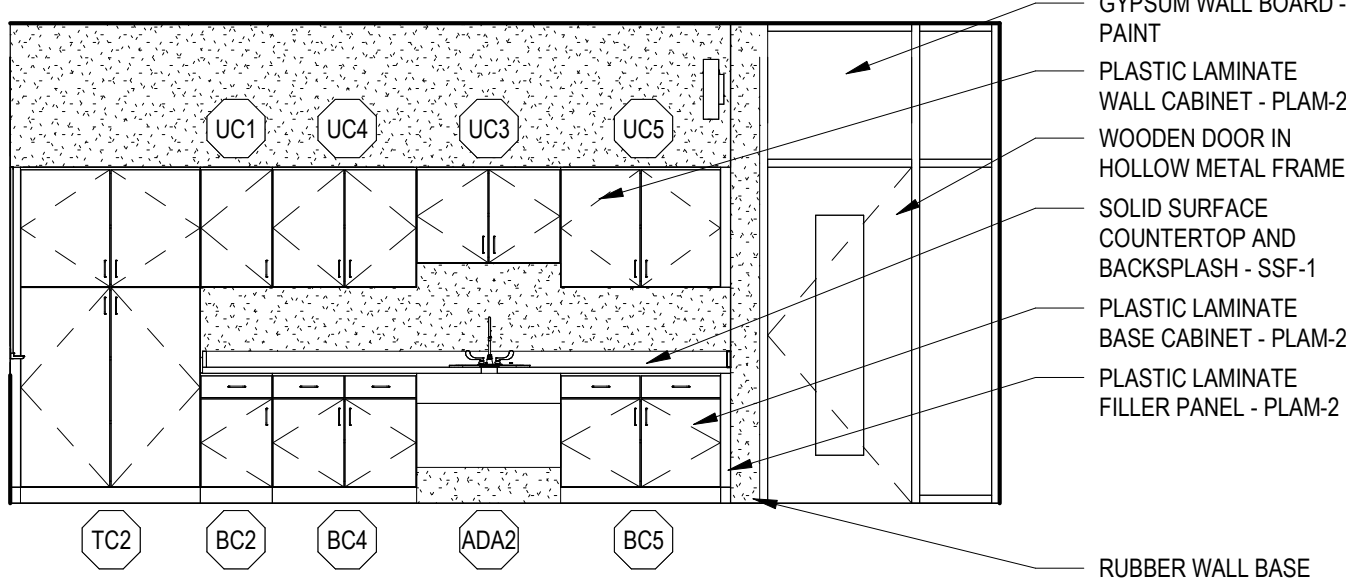
19 INTERIOR COLLAB ELEVATION - WEST
1/4" = 1'-0"



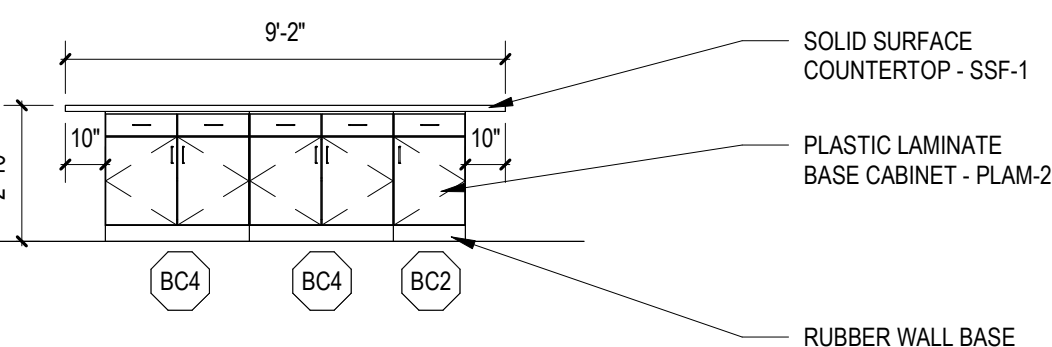
18 INTERIOR COLLAB ELEVATION - NORTH
1/4" = 1'-0"



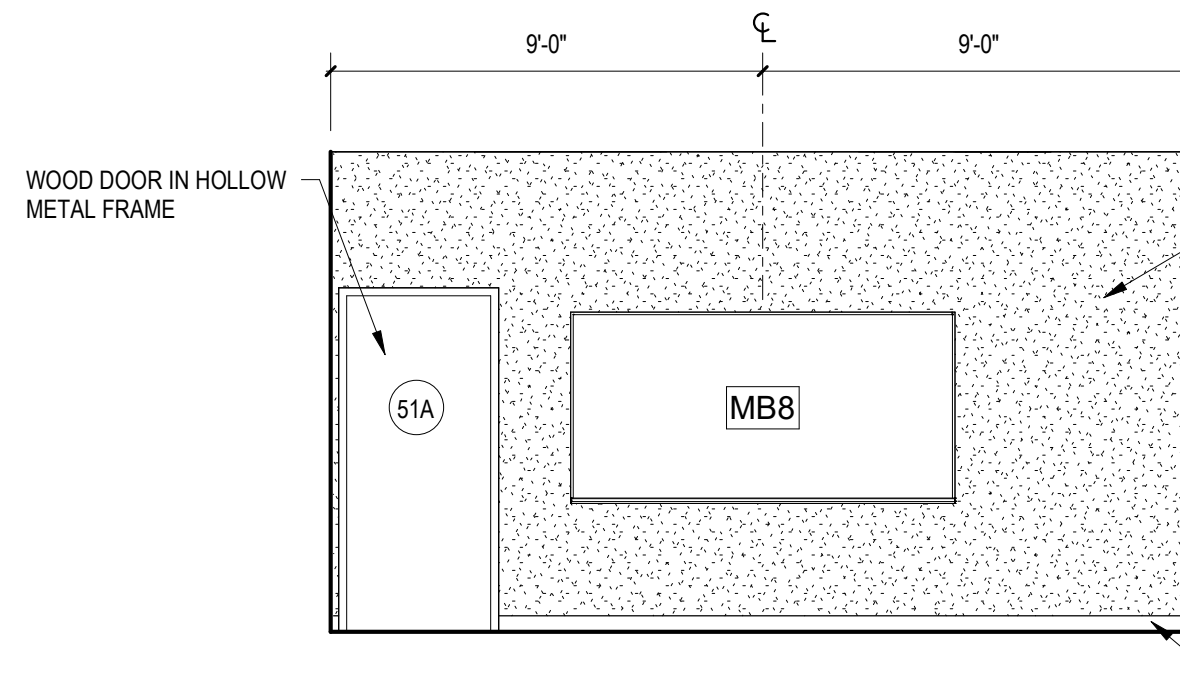
17 INTERIOR ELEVATION - SPECIAL EDUCATION
1/4" = 1'-0"



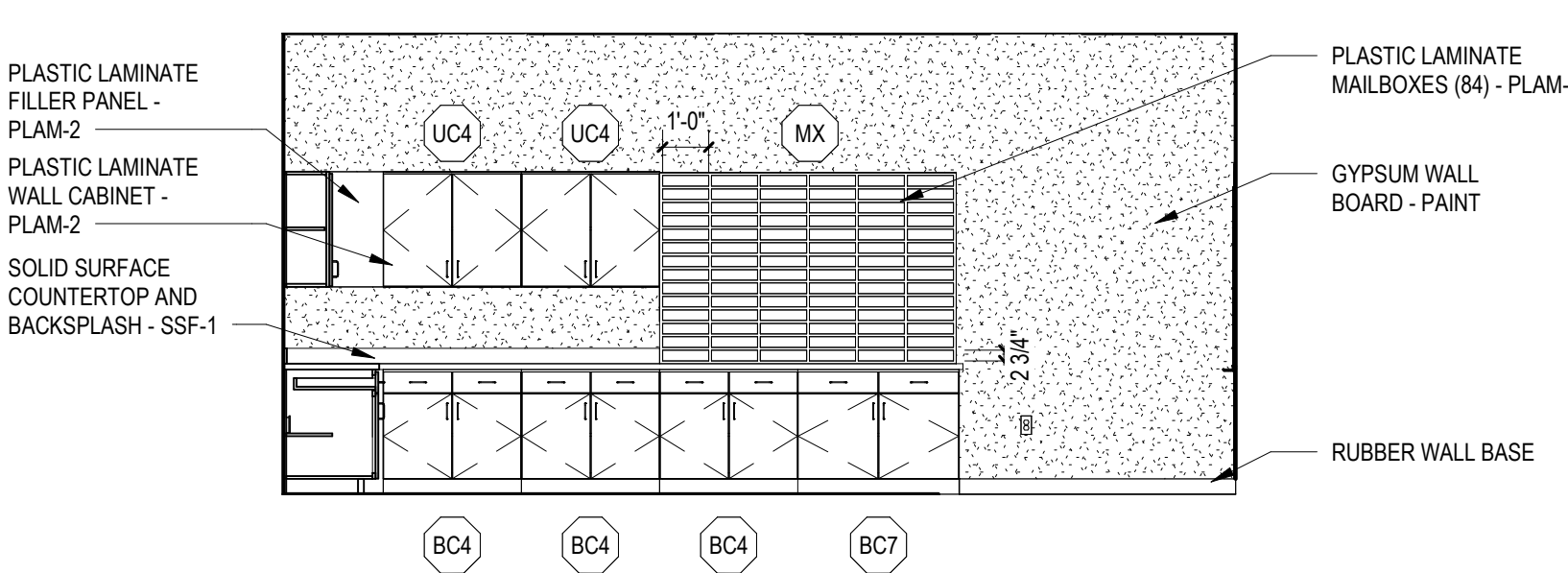
16 INTERIOR ELEVATION - SPECIAL EDUCATION
1/4" = 1'-0"



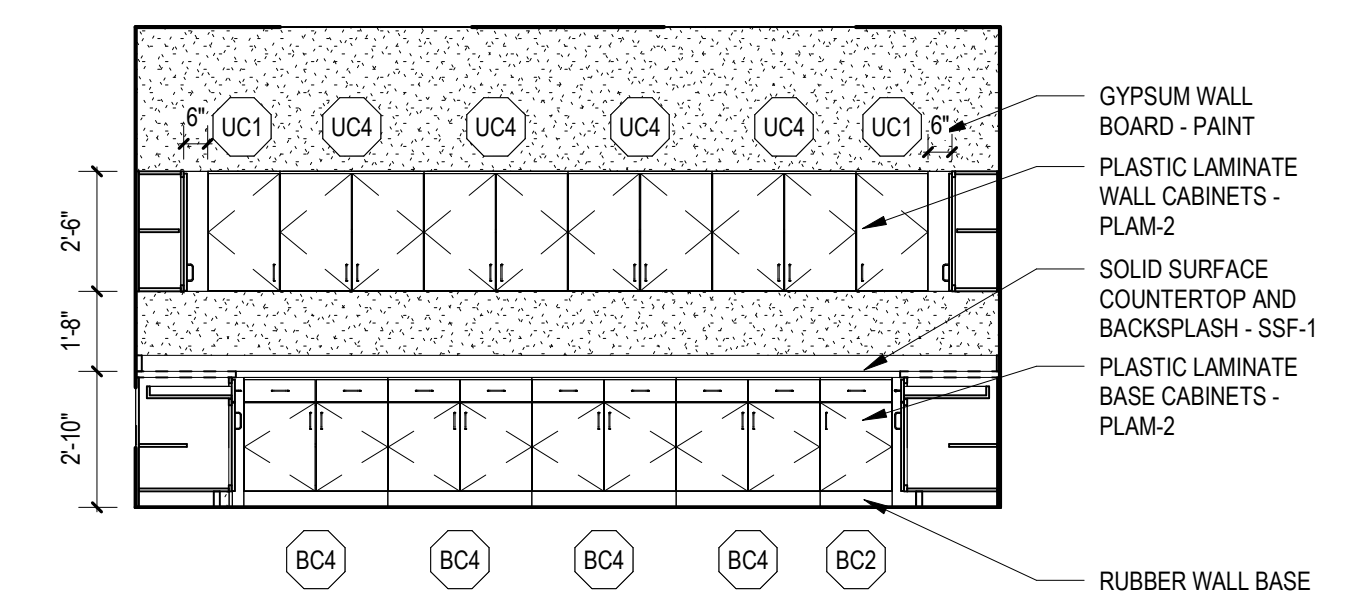
15 INTERIOR ELEVATION - WORK ROOM
1/4" = 1'-0"



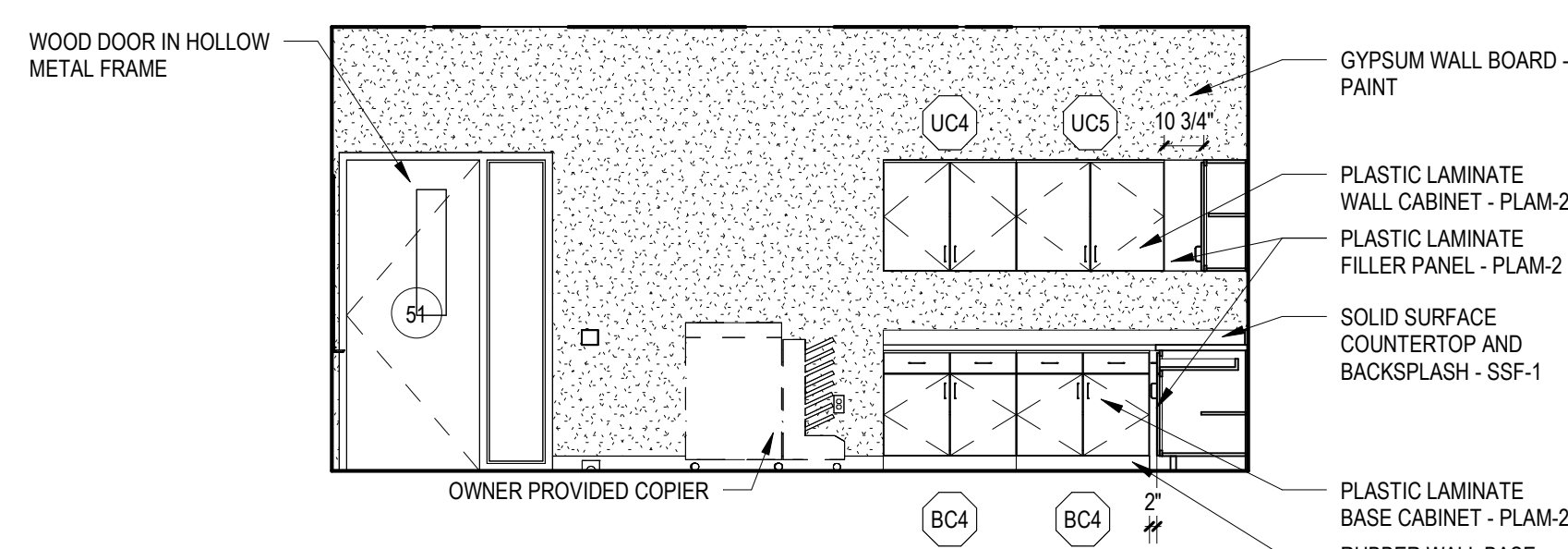
14 INTERIOR ELEVATION - WORK ROOM
1/4" = 1'-0"



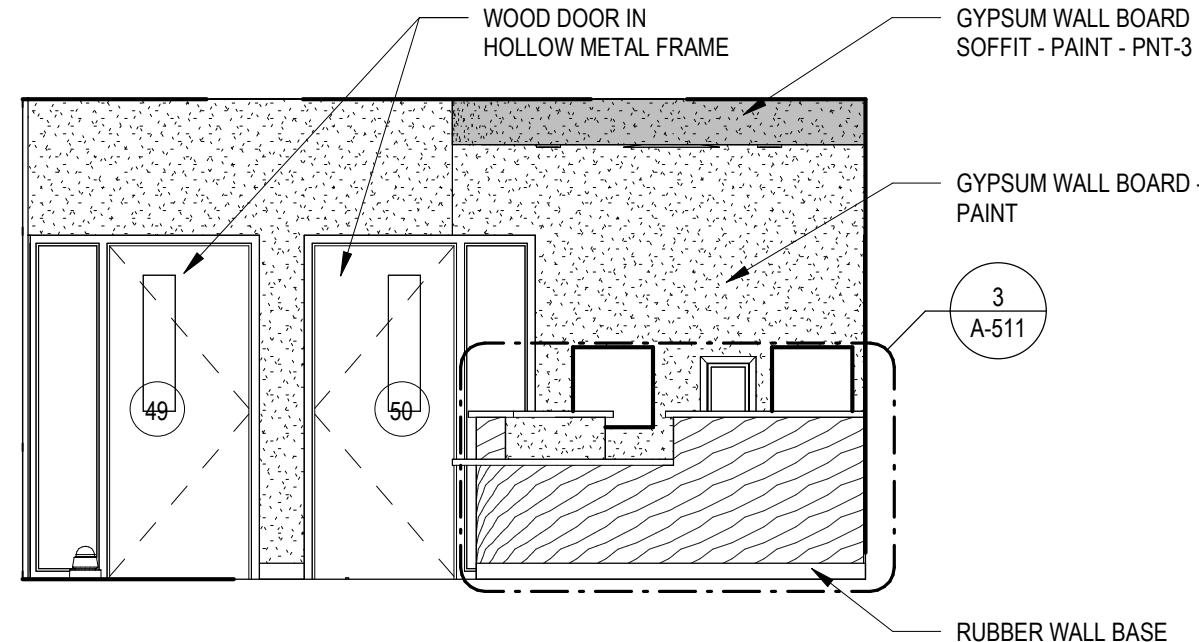
13 INTERIOR ELEVATION - WORK ROOM
1/4" = 1'-0"



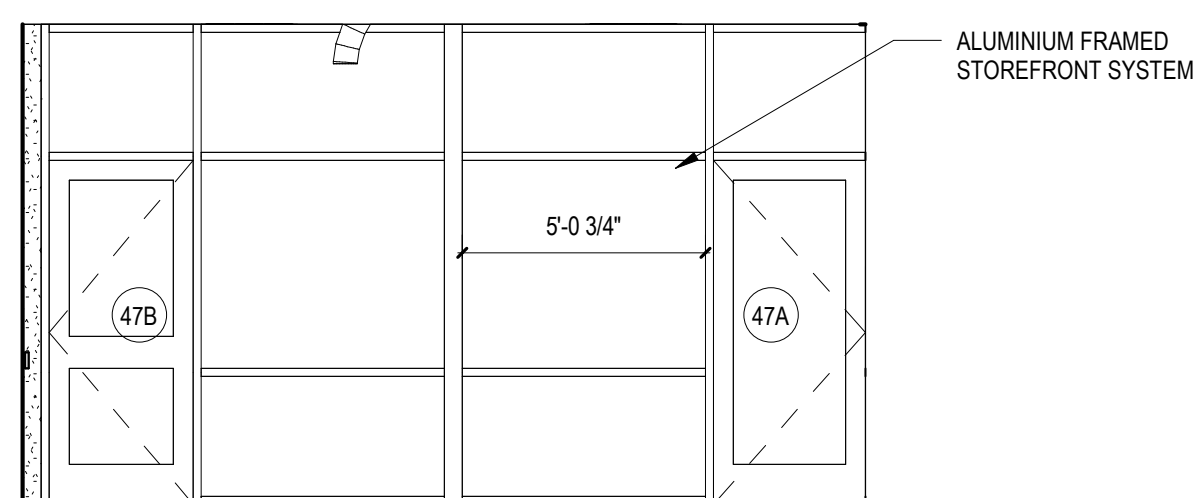
12 INTERIOR ELEVATION - WORK ROOM
1/4" = 1'-0"



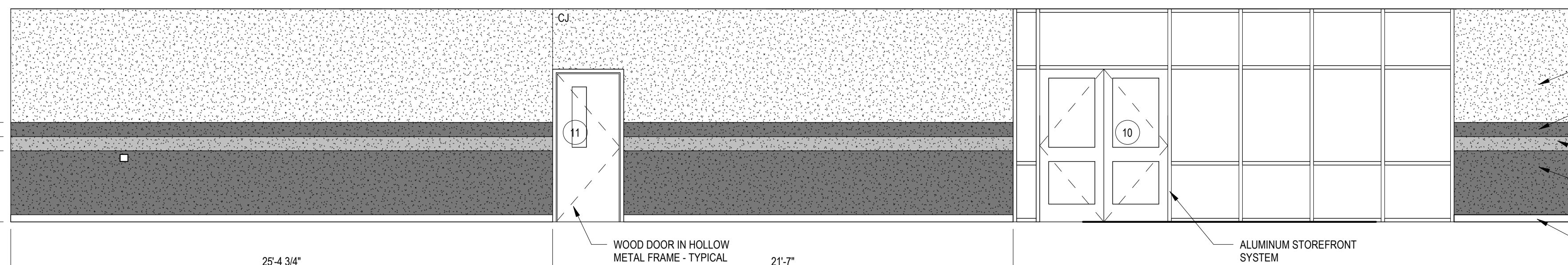
11 INTERIOR ELEVATION - WORK ROOM
1/4" = 1'-0"



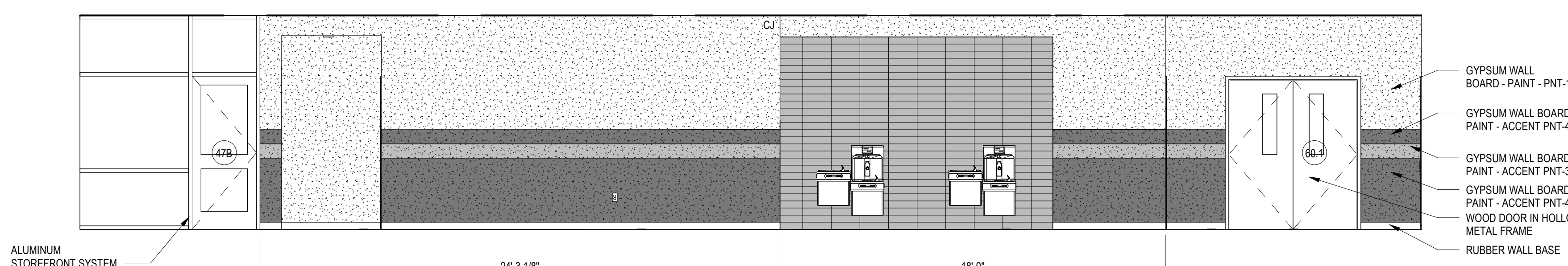
8 INTERIOR ELEVATION - MAIN OFFICE
1/4" = 1'-0"



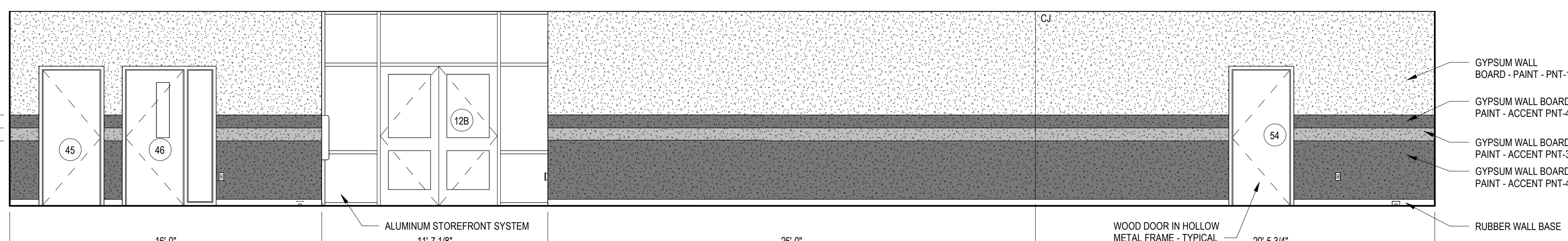
6 INTERIOR ELEVATION - MAIN OFFICE
1/4" = 1'-0"



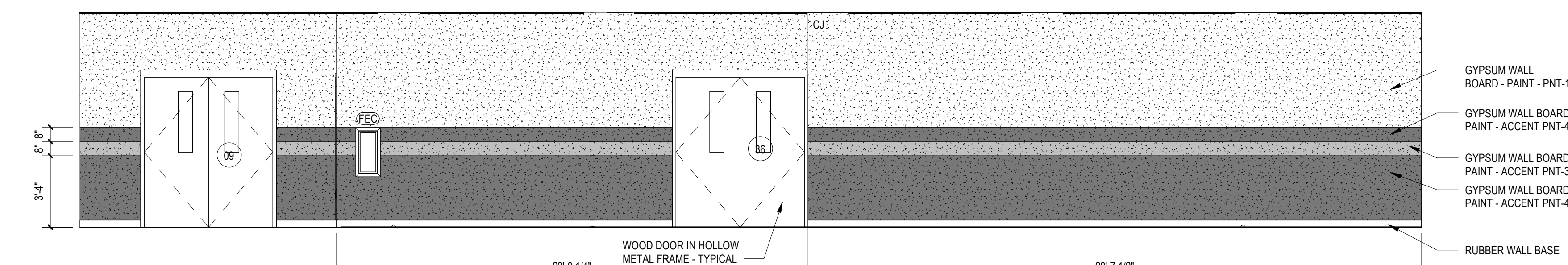
4 INTERIOR ELEVATION - CORRIDOR
1/4" = 1'-0"



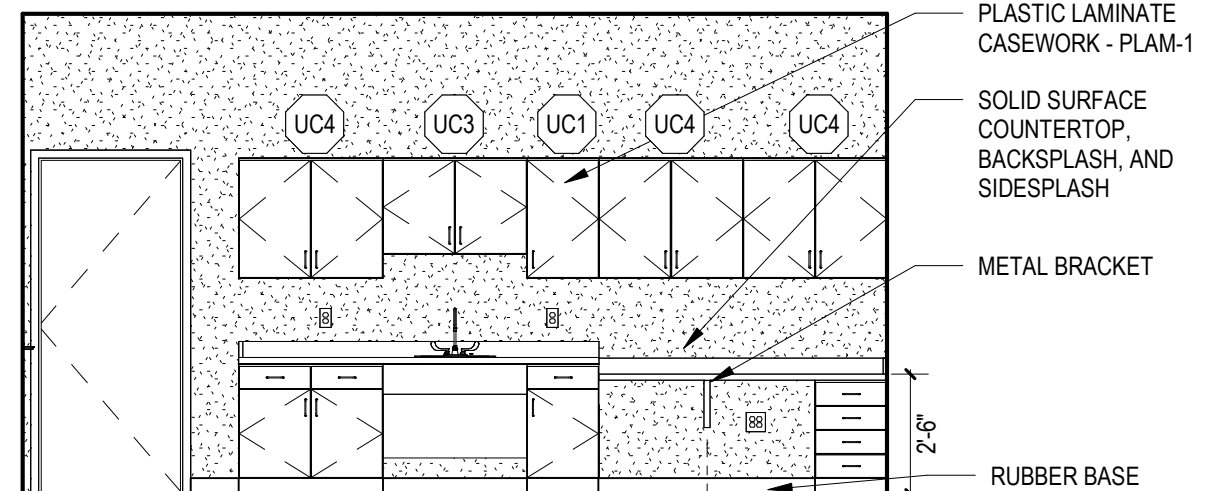
3 INTERIOR ELEVATION - CORRIDOR
1/4" = 1'-0"



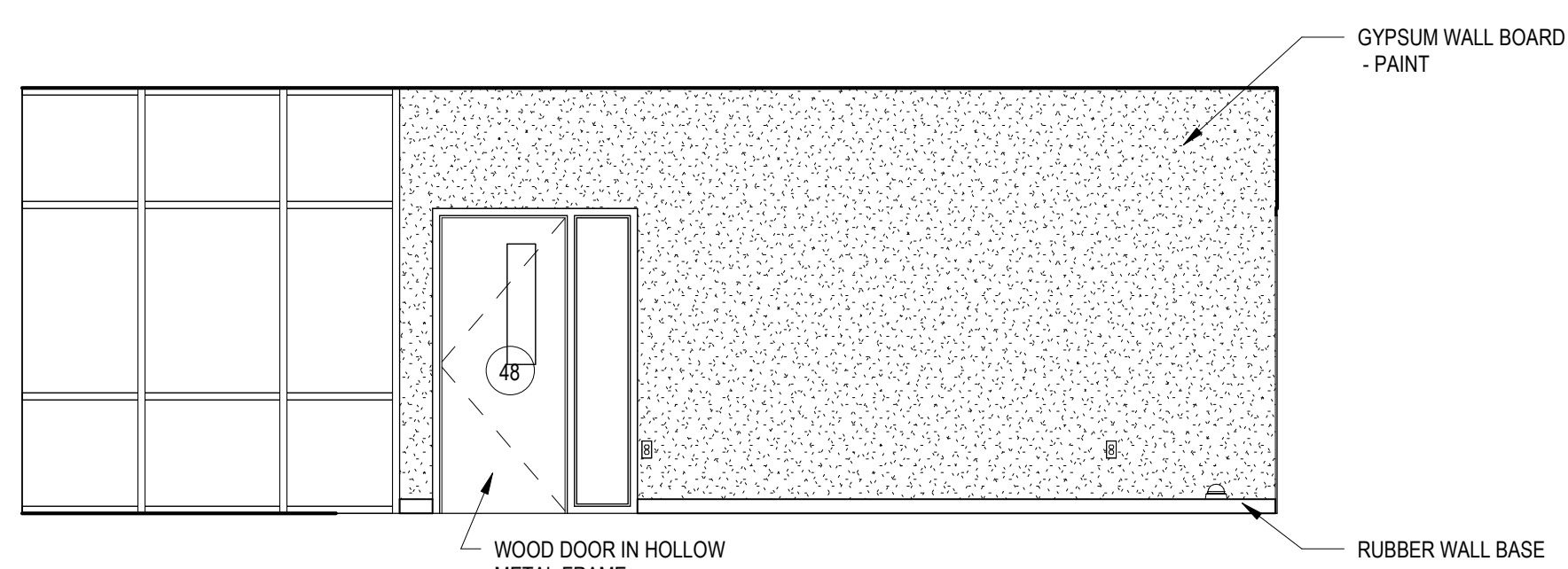
2 INTERIOR ELEVATION - CORRIDOR
1/4" = 1'-0"



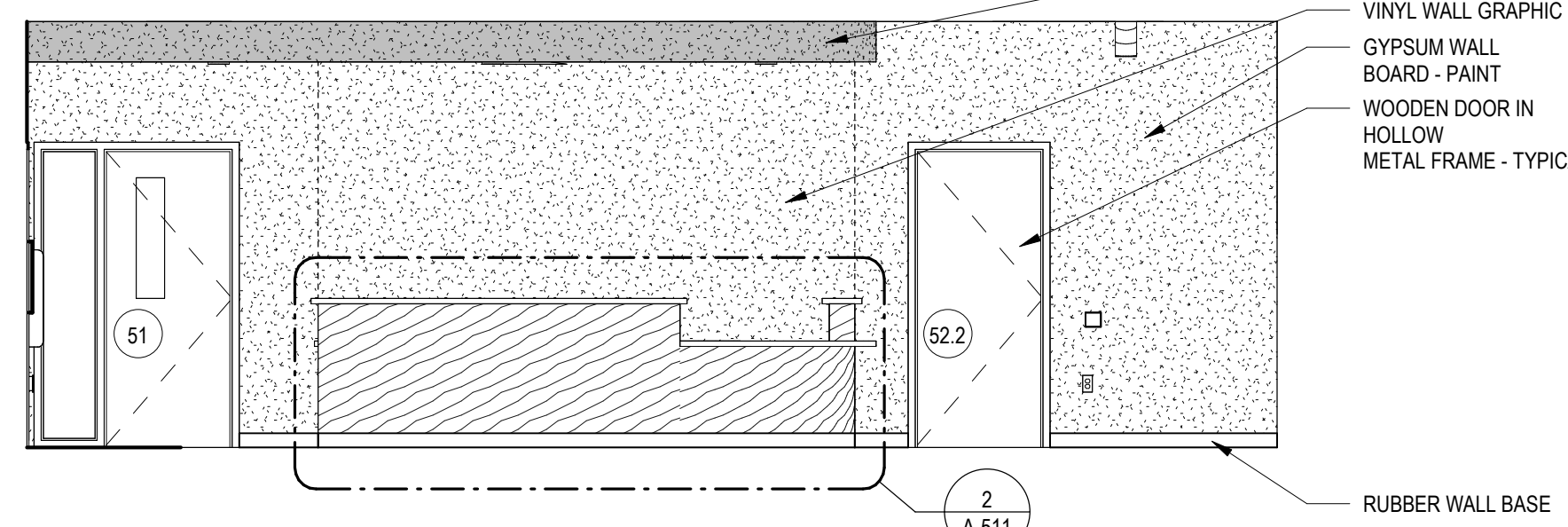
1 INTERIOR ELEVATION - CORRIDOR
1/4" = 1'-0"



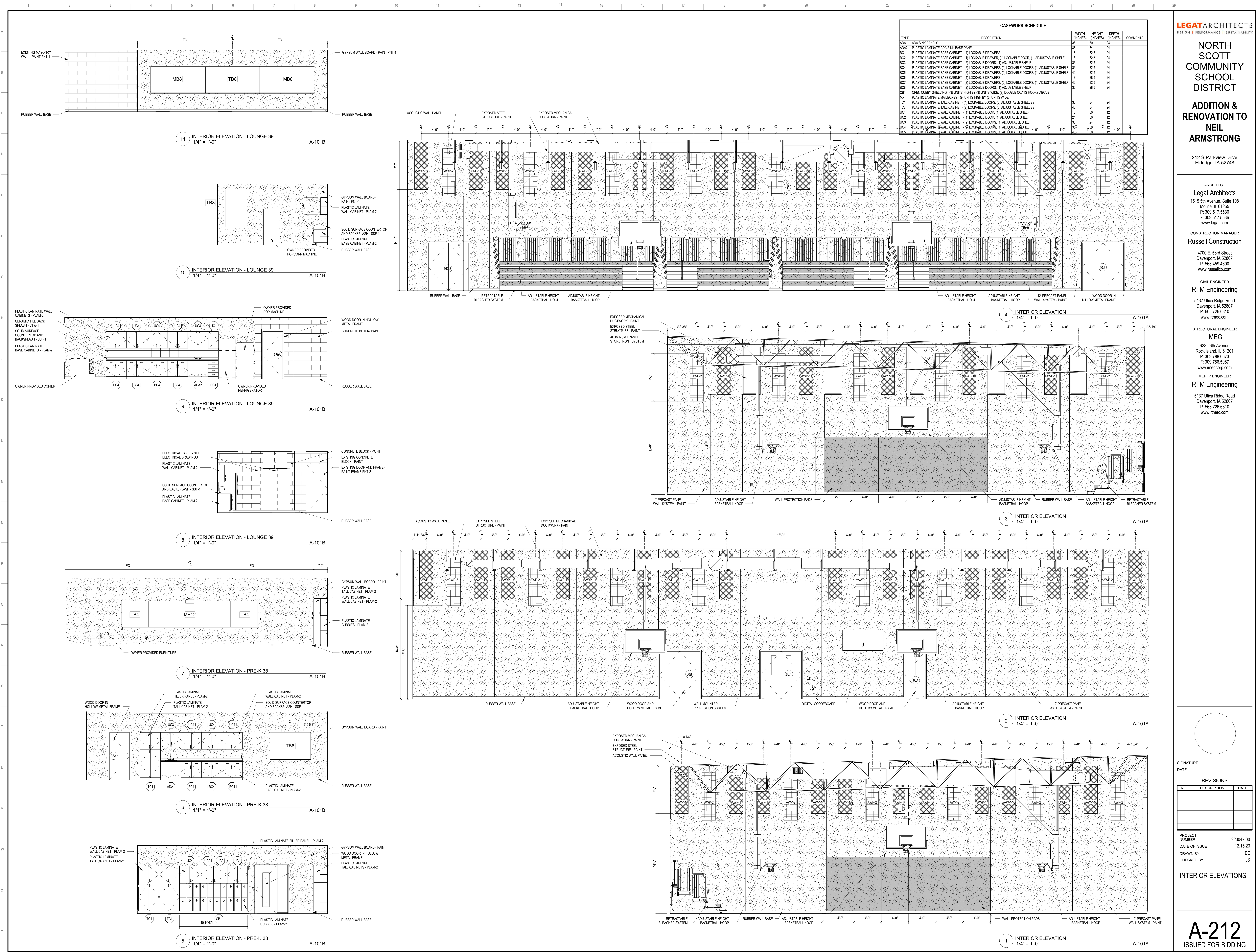
9 INTERIOR ELEVATION - NURSE
1/4" = 1'-0"



7 INTERIOR ELEVATION - MAIN OFFICE
1/4" = 1'-0"



5 INTERIOR ELEVATION - MAIN OFFICE
1/4" = 1'-0"



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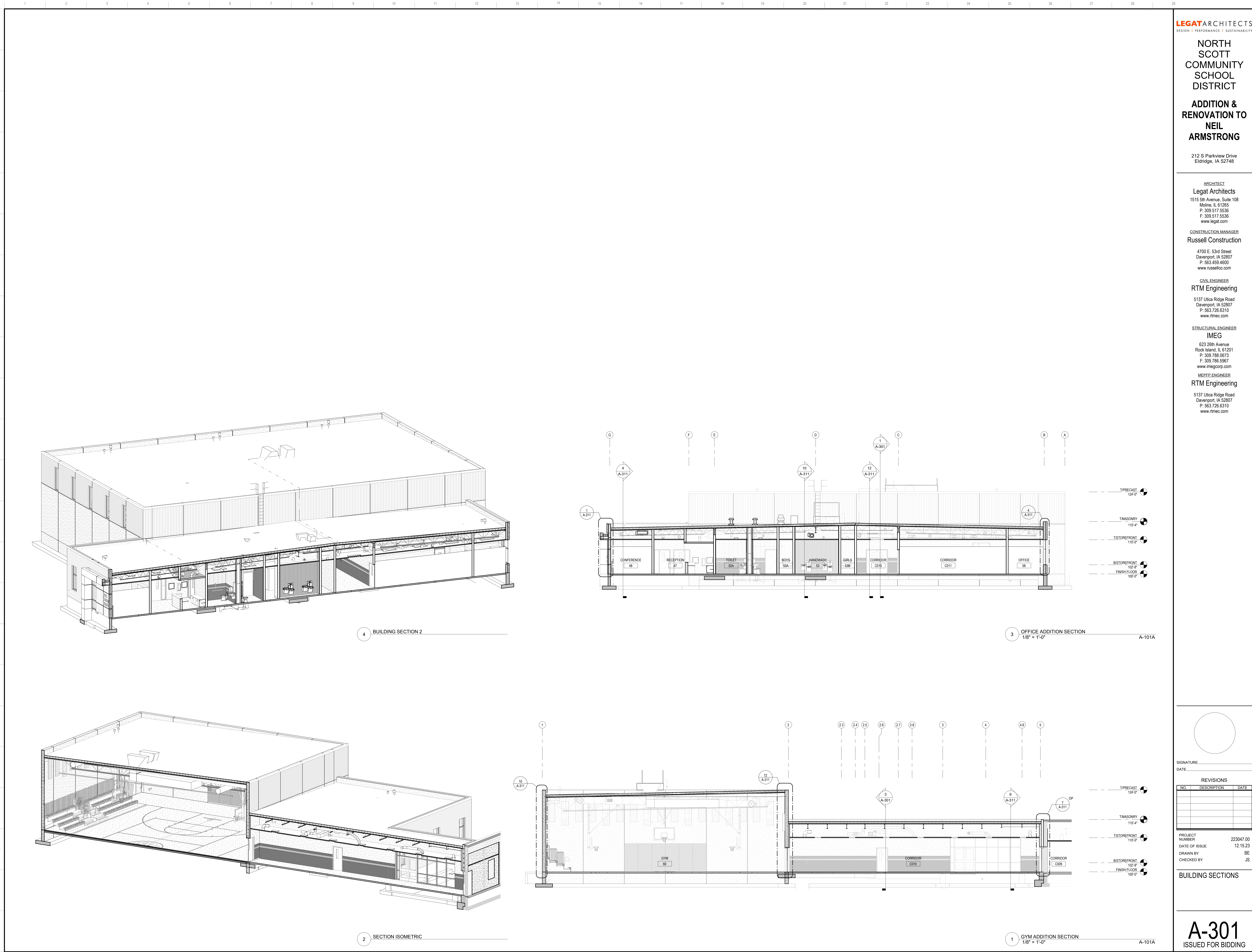
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INTERIOR ELEVATIONS

A-212
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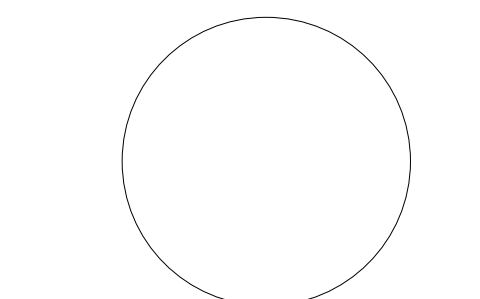
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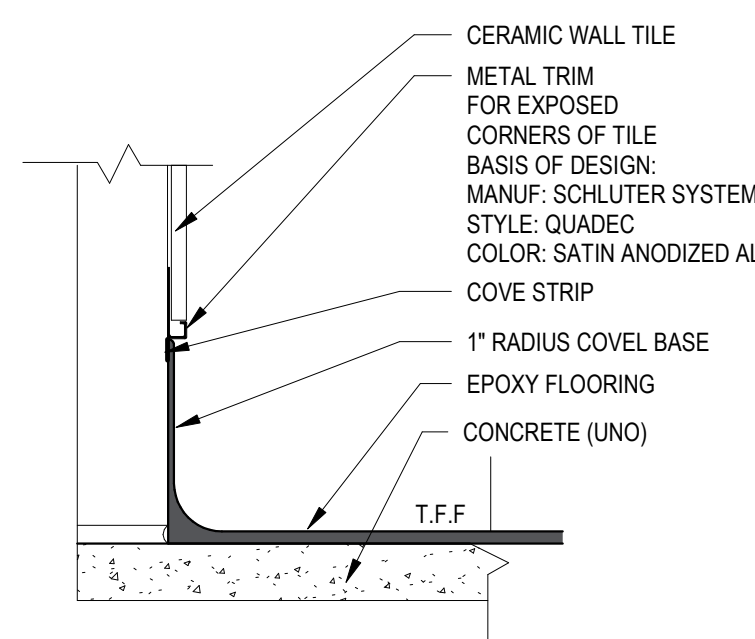
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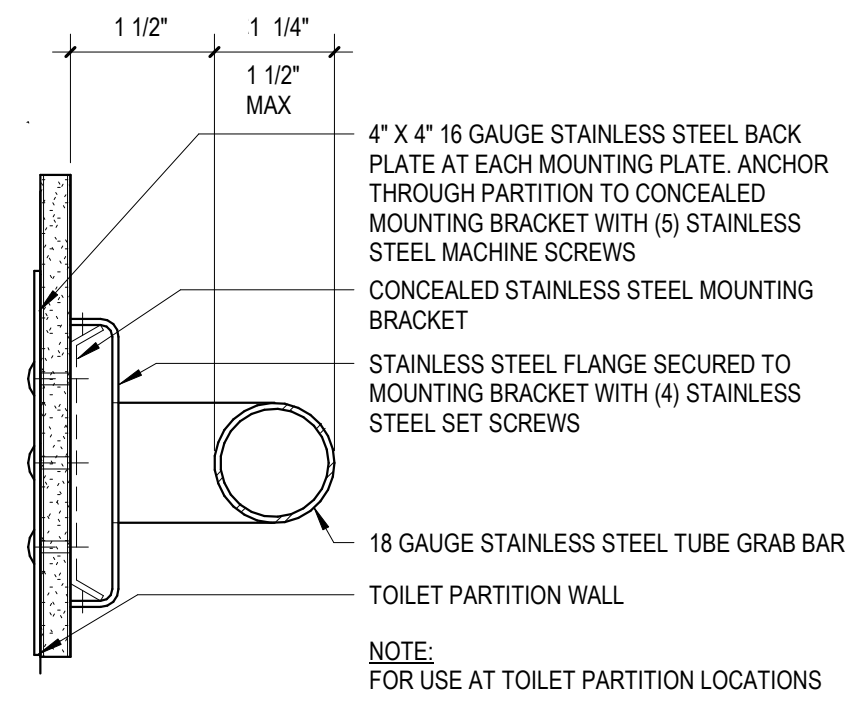
BUILDING SECTIONS

A-301
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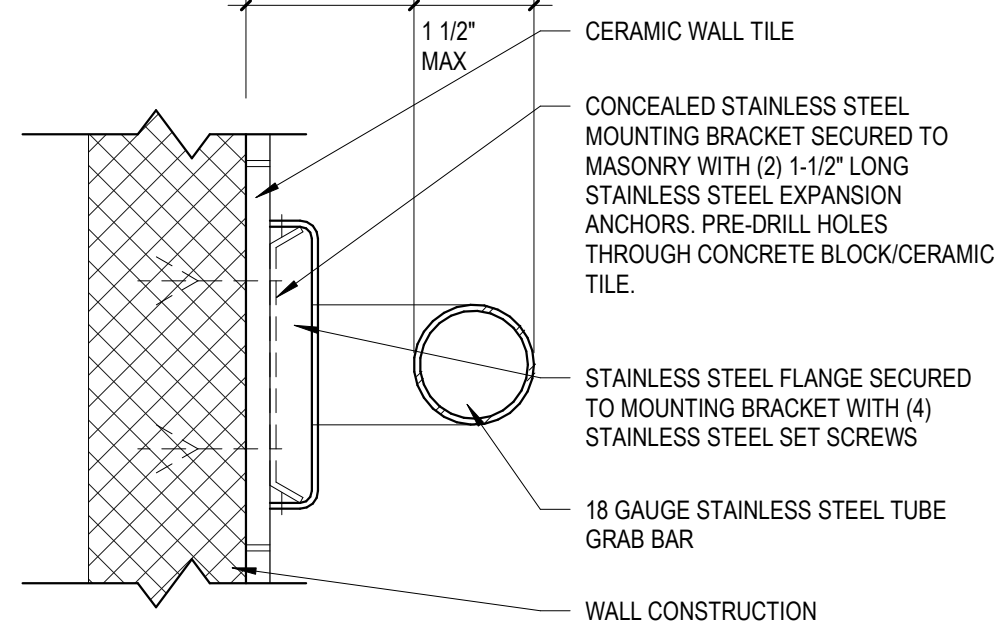
A-311



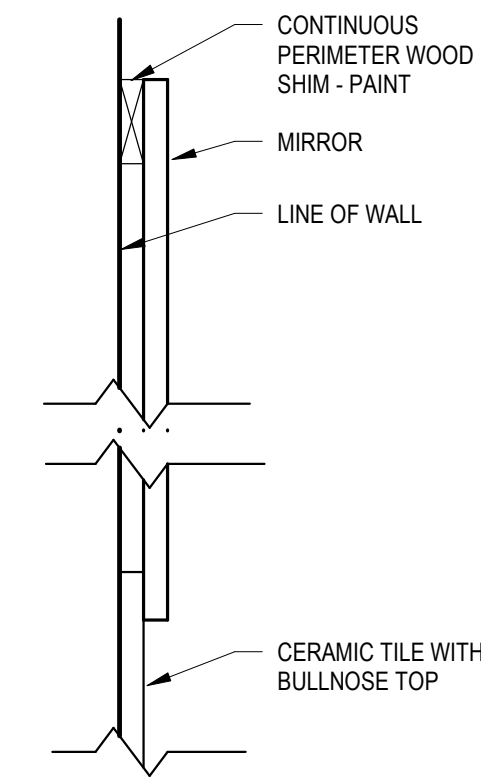
27 EPOXY COVE BASE TO CERAMIC WALL TILE
3" = 1'-0"



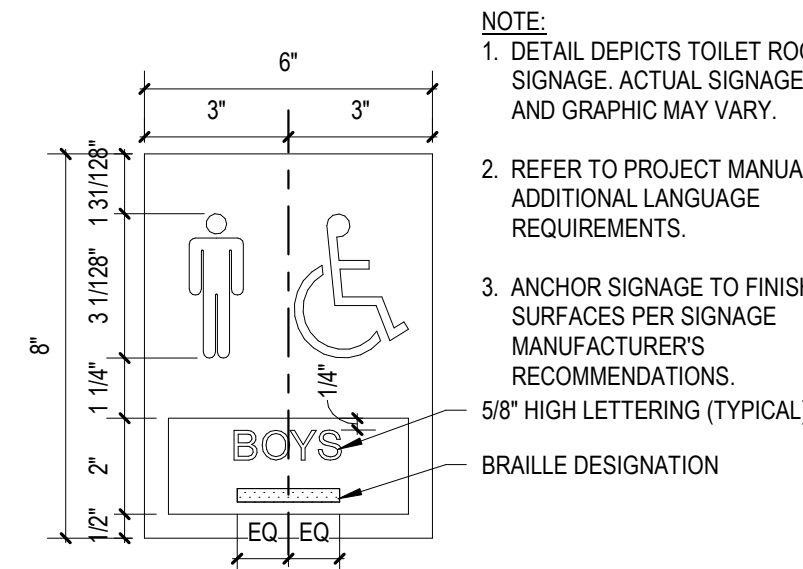
26 GRAB BAR MOUNTING DETAIL
3" = 1'-0"



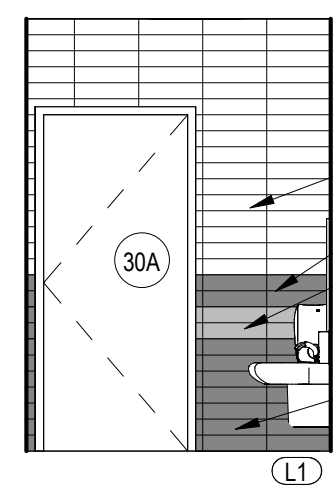
25 GRAB BAR DETAIL
3" = 1'-0"



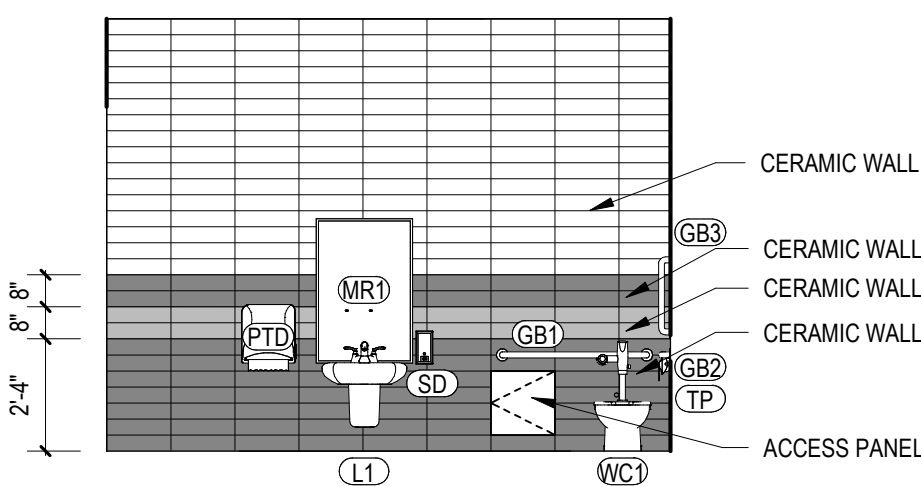
24 DETAIL AT MIRROR
3" = 1'-0"



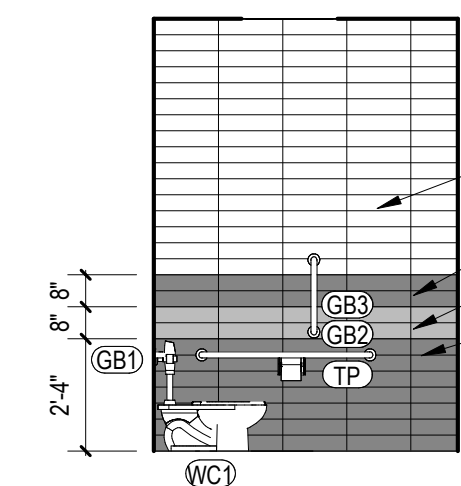
23 TYPICAL TOILET ROOM SIGNAGE (TRS)
3" = 1'-0"



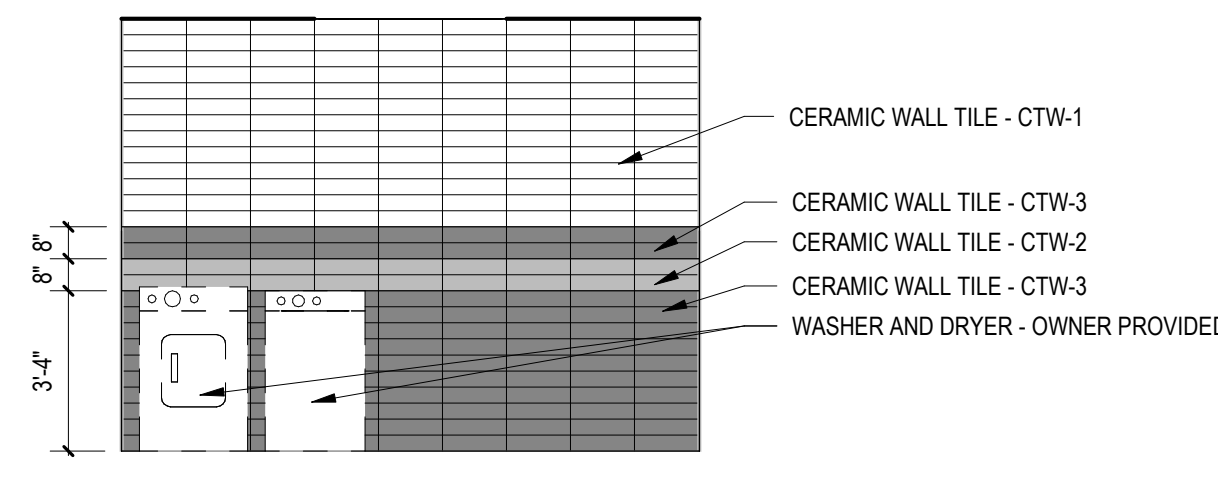
22 INTERIOR ELEVATION
1/4" = 1'-0"



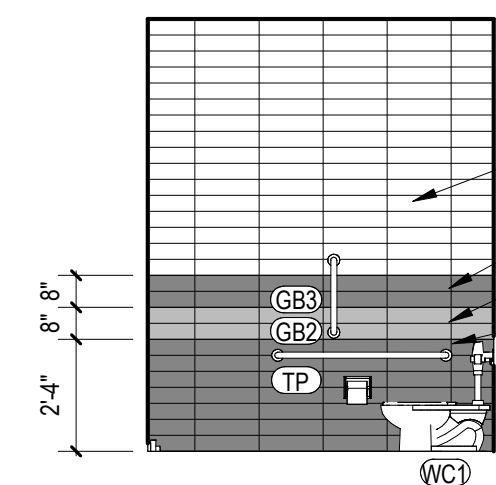
21 INTERIOR ELEVATION
1/4" = 1'-0"



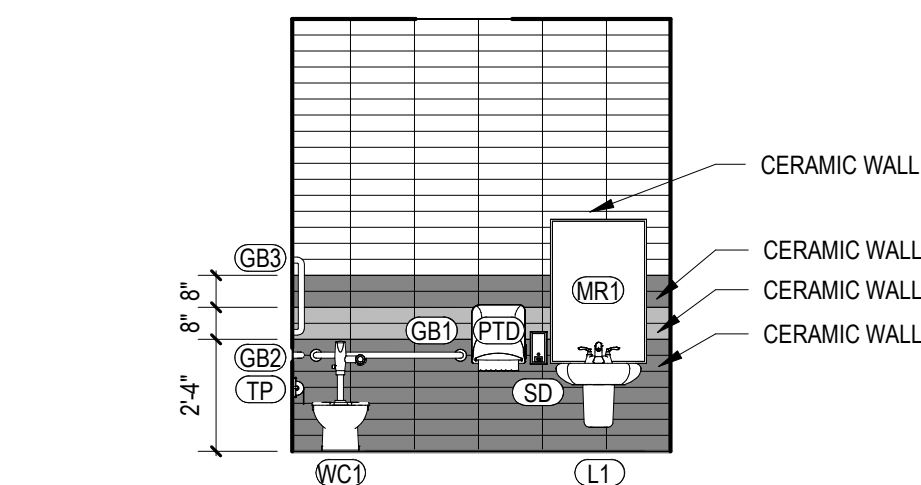
20 INTERIOR ELEVATION
1/4" = 1'-0"



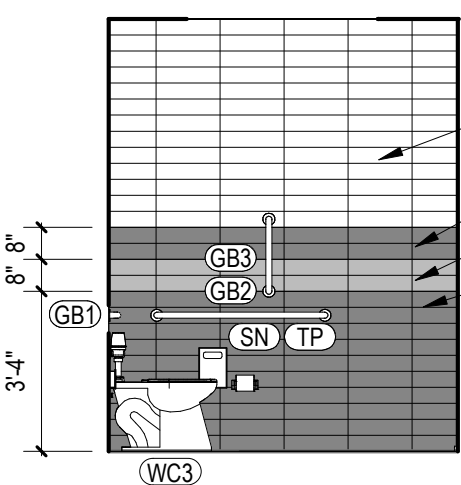
19 INTERIOR ELEVATION
1/4" = 1'-0"



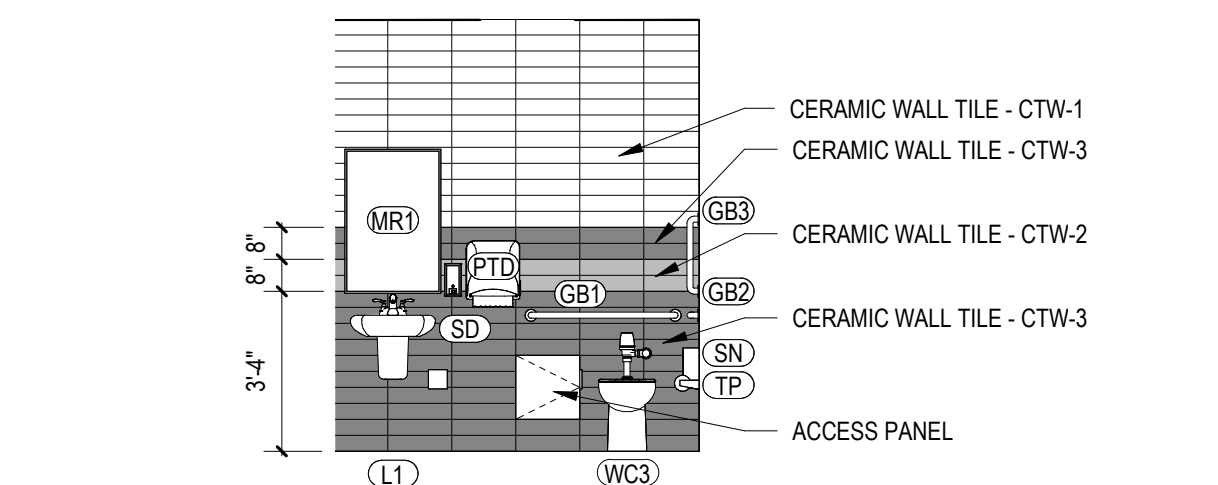
17 INTERIOR ELEVATION
1/4" = 1'-0"



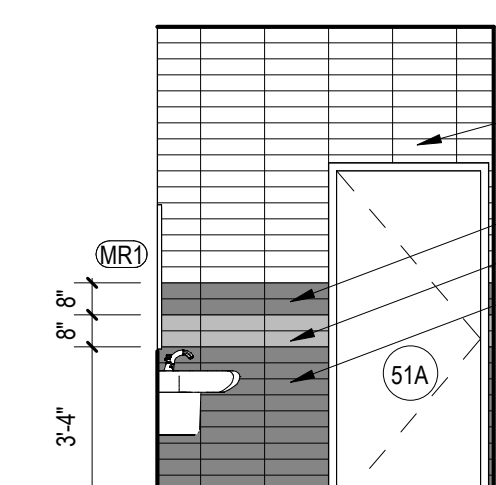
16 INTERIOR ELEVATION
1/4" = 1'-0"



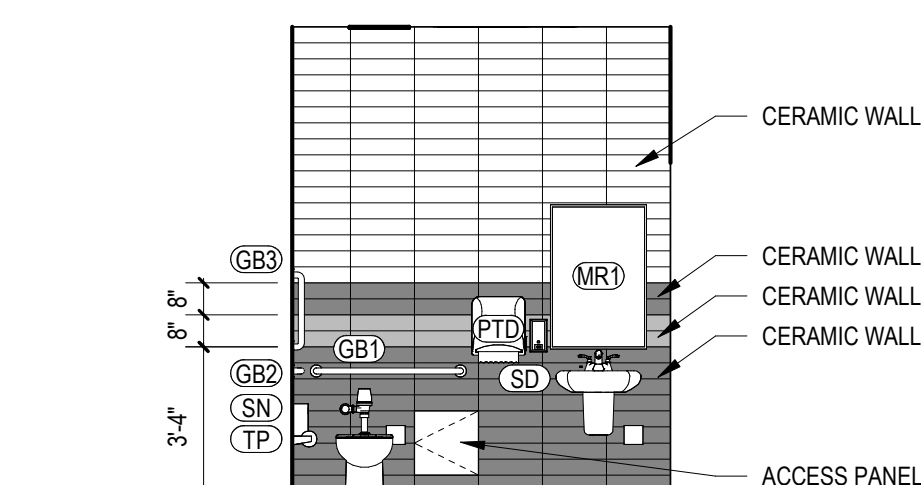
15 INTERIOR ELEVATION
1/4" = 1'-0"



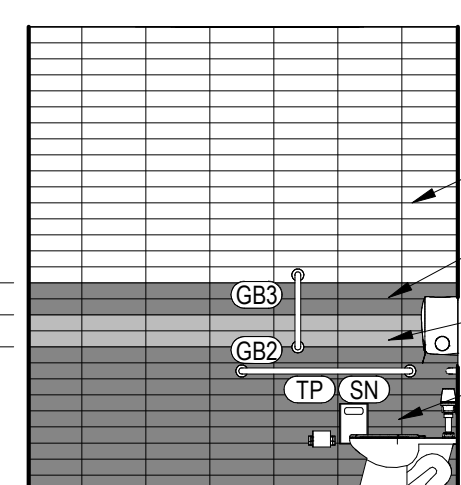
14 INTERIOR ELEVATION
1/4" = 1'-0"



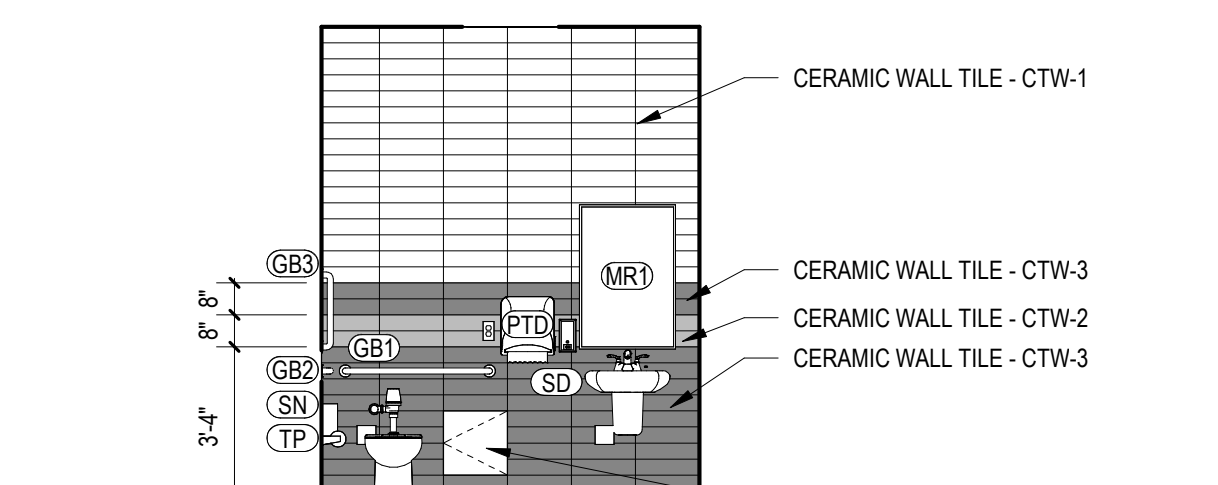
12 INTERIOR ELEVATION
1/4" = 1'-0"



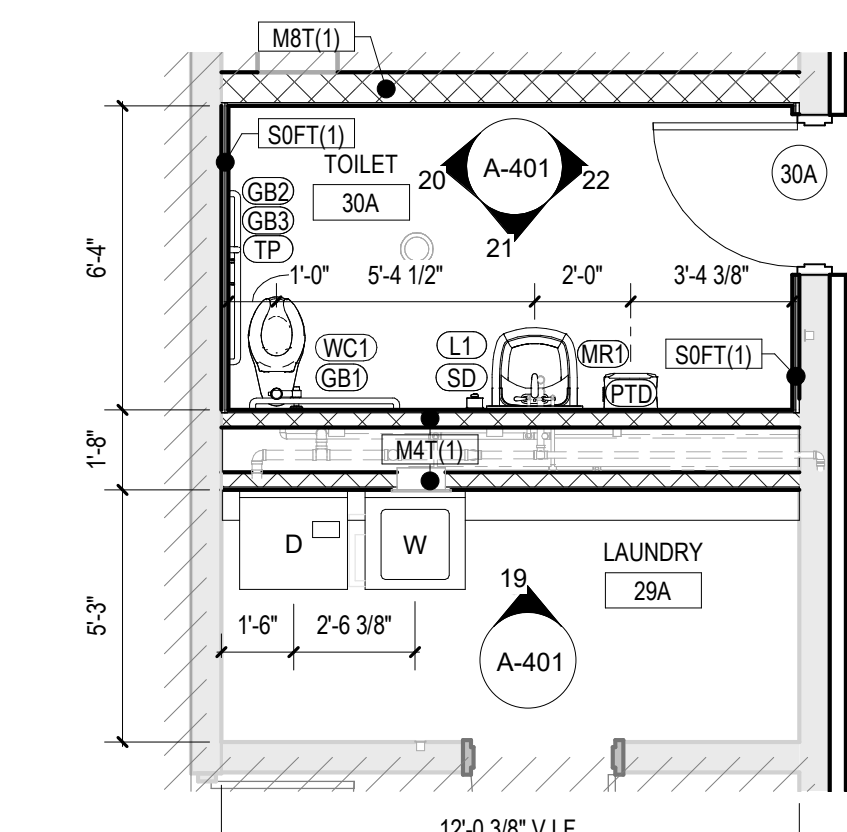
11 INTERIOR ELEVATION
1/4" = 1'-0"



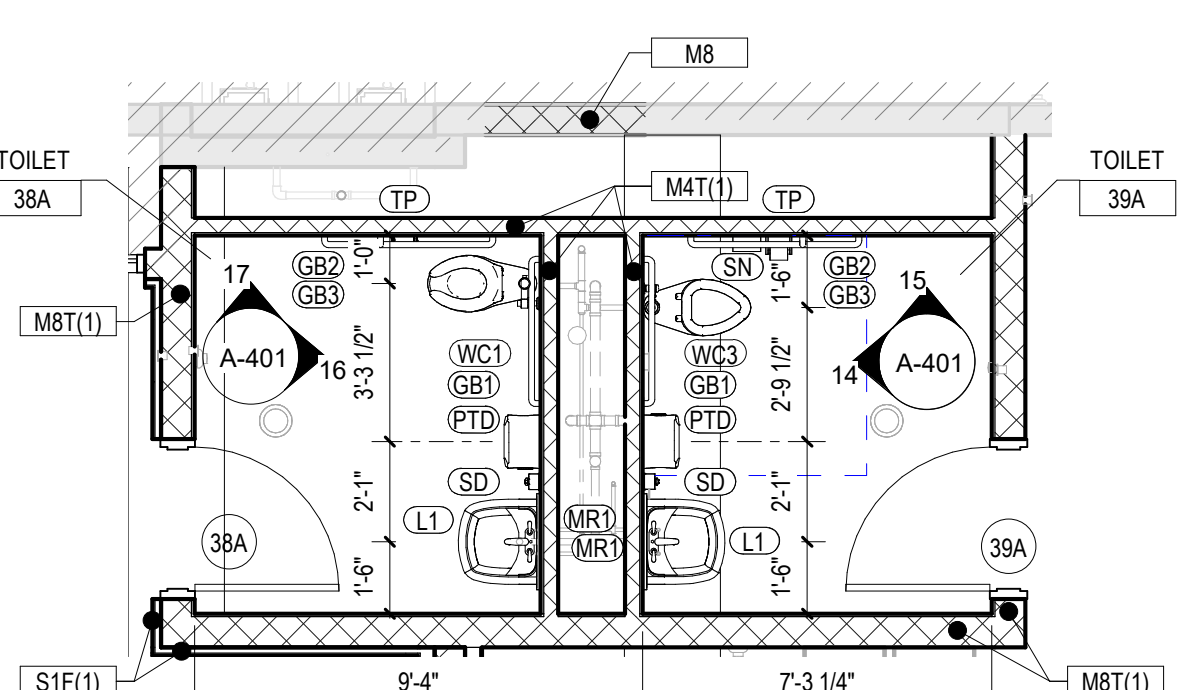
10 INTERIOR ELEVATION
1/4" = 1'-0"



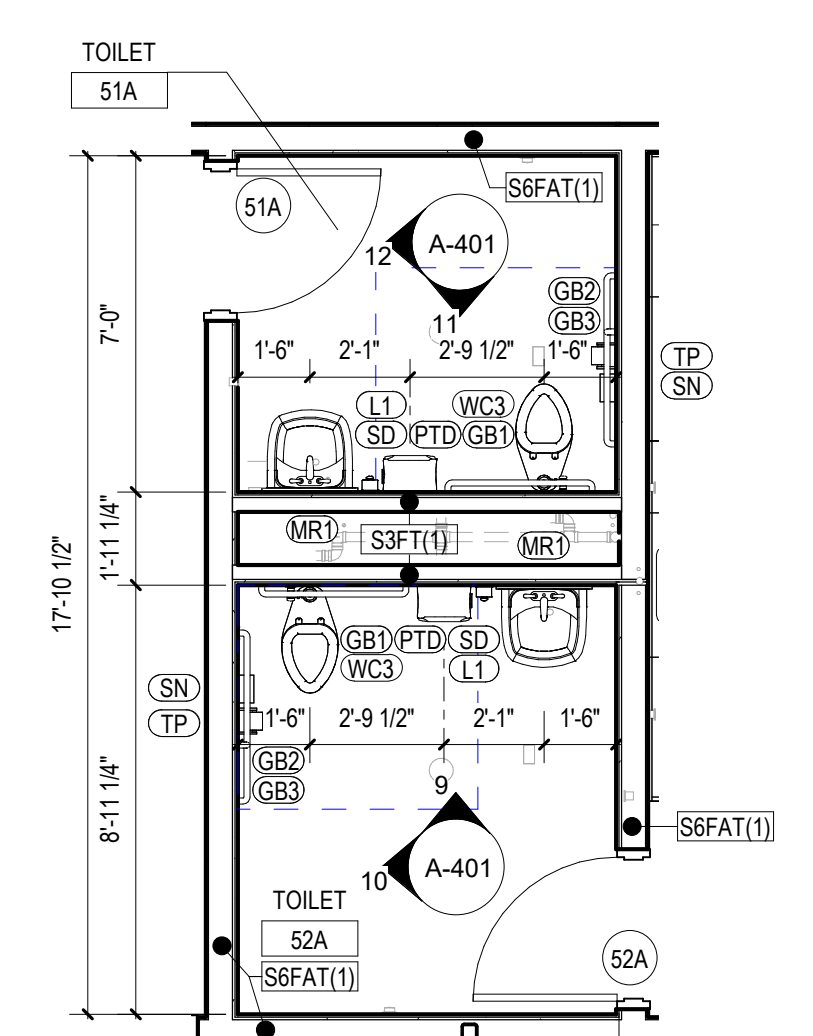
9 INTERIOR ELEVATION
1/4" = 1'-0"



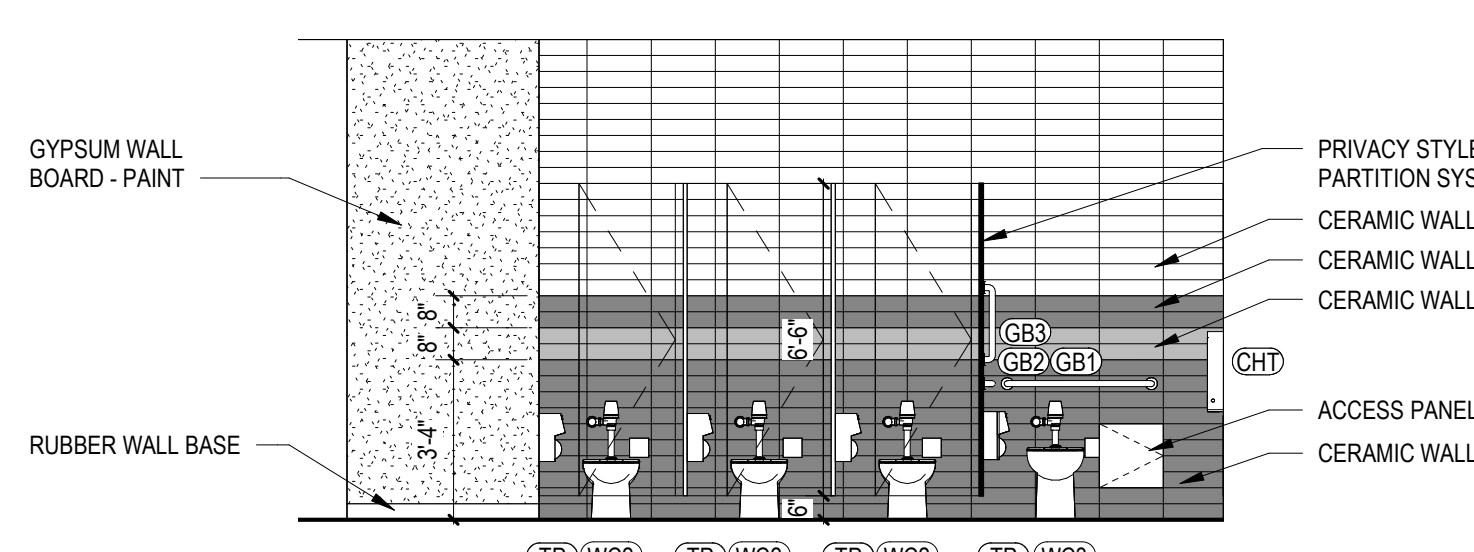
18 ENLARGED PRE-K TOILET / LAUNDRY
1/4" = 1'-0"



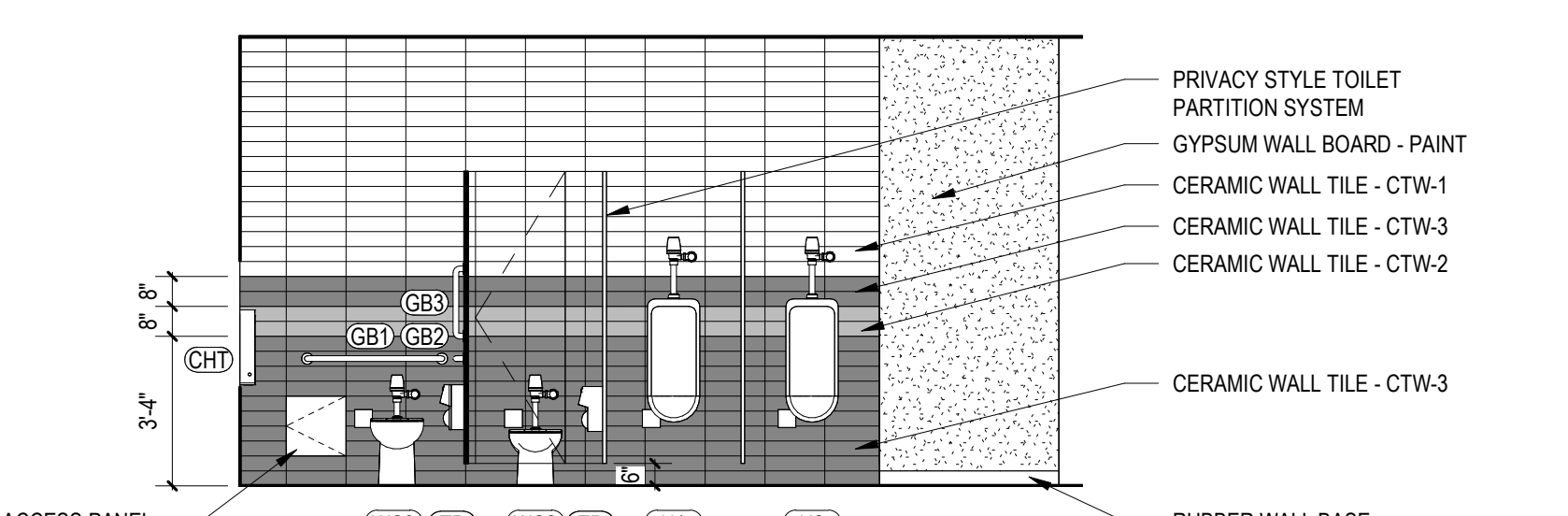
13 ENLARGED PRE-K AND TEACHERS LOUNGE TOILETS
1/4" = 1'-0"



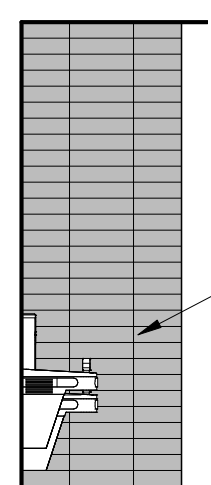
8 ENLARGED STAFF AND NURSE TOILETS
1/4" = 1'-0"



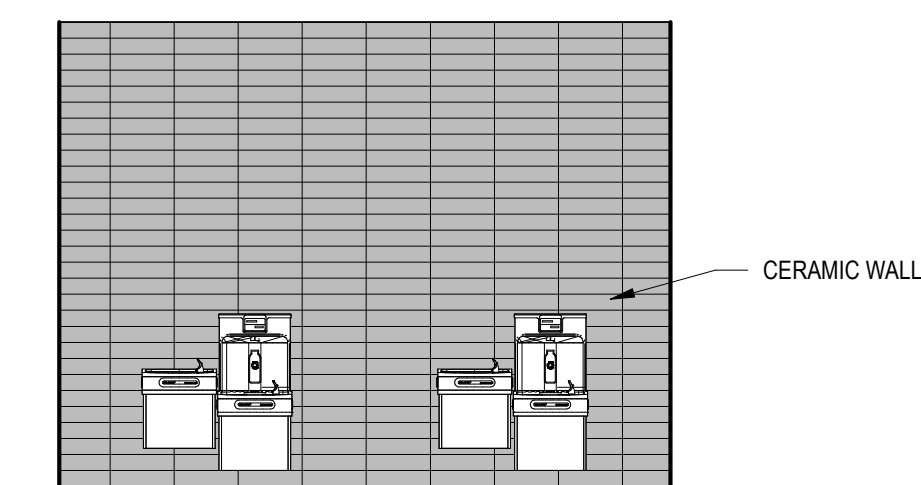
7 INTERIOR ELEVATION
1/4" = 1'-0"



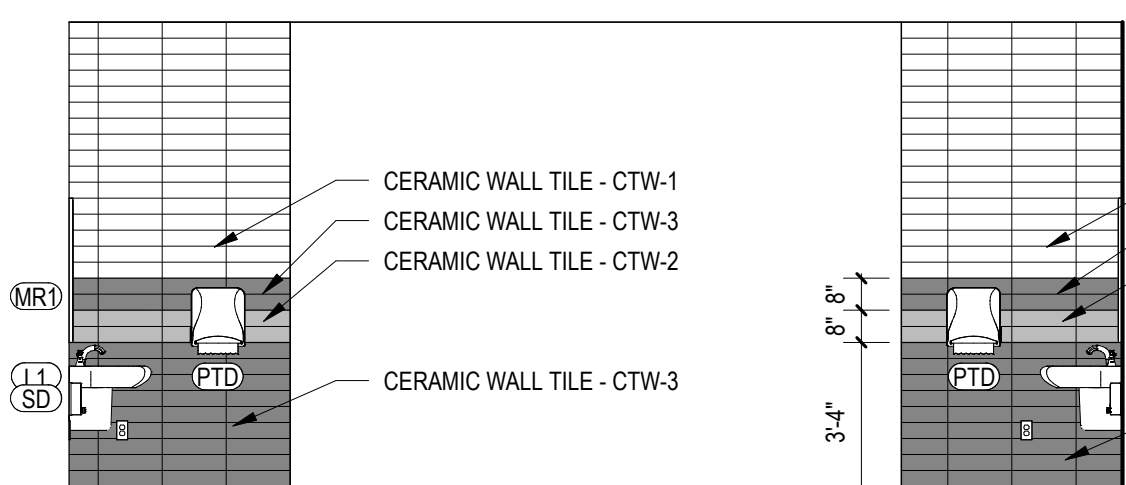
6 INTERIOR ELEVATION
1/4" = 1'-0"



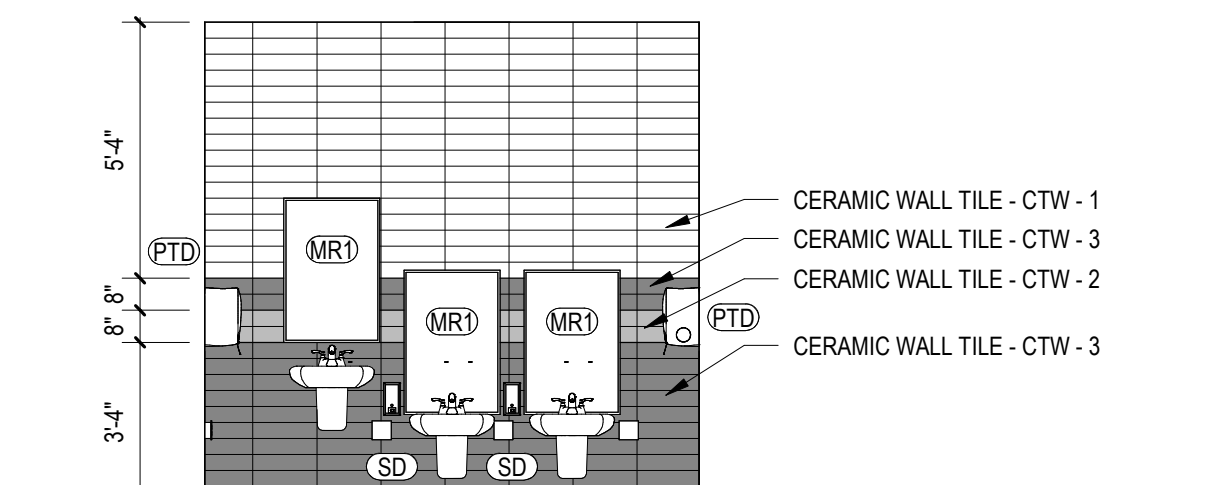
5 INTERIOR ELEVATION
1/4" = 1'-0"



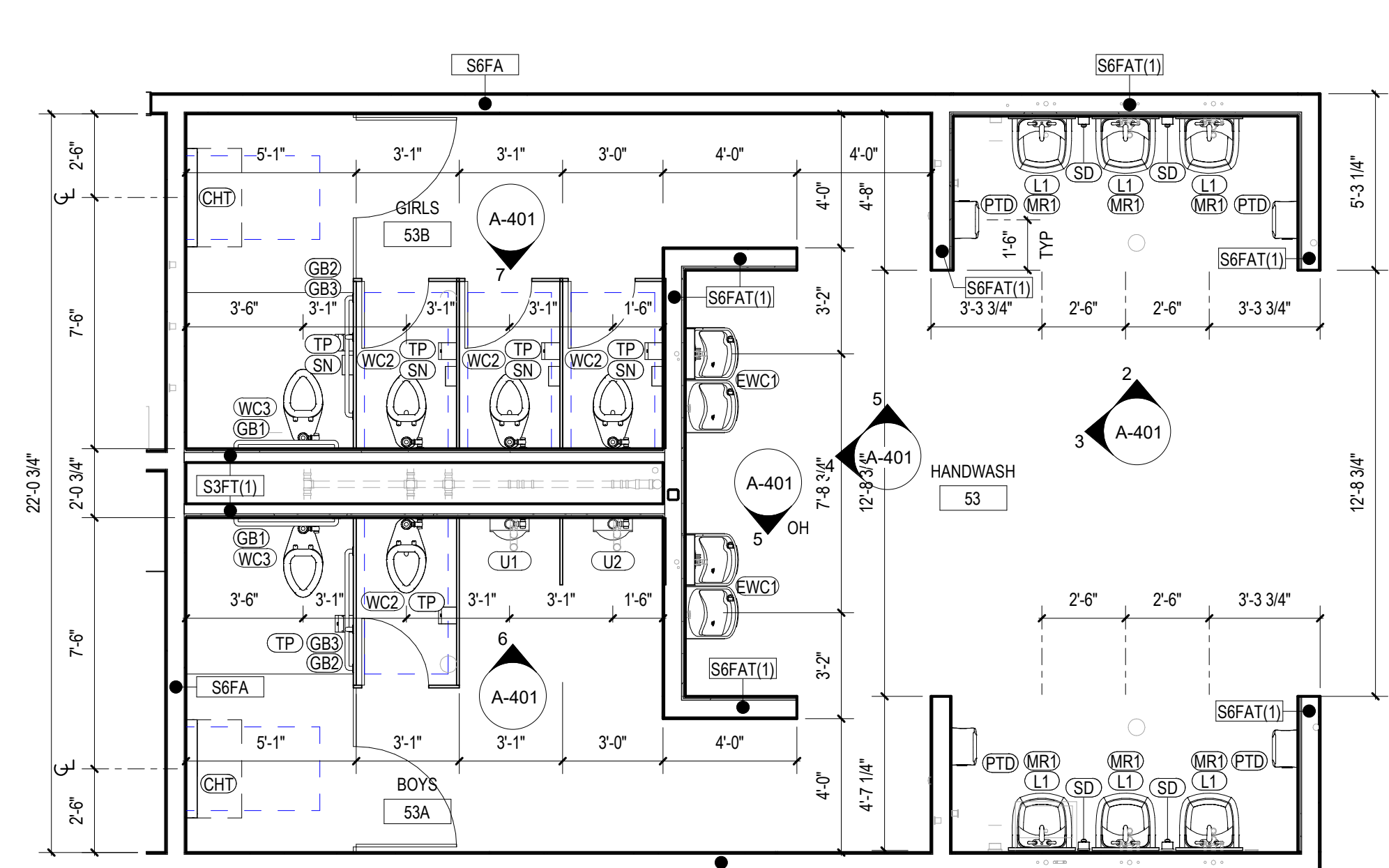
4 INTERIOR ELEVATION
1/4" = 1'-0"



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



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



1 ENLARGED TOILET ROOMS
1/4" = 1'-0"

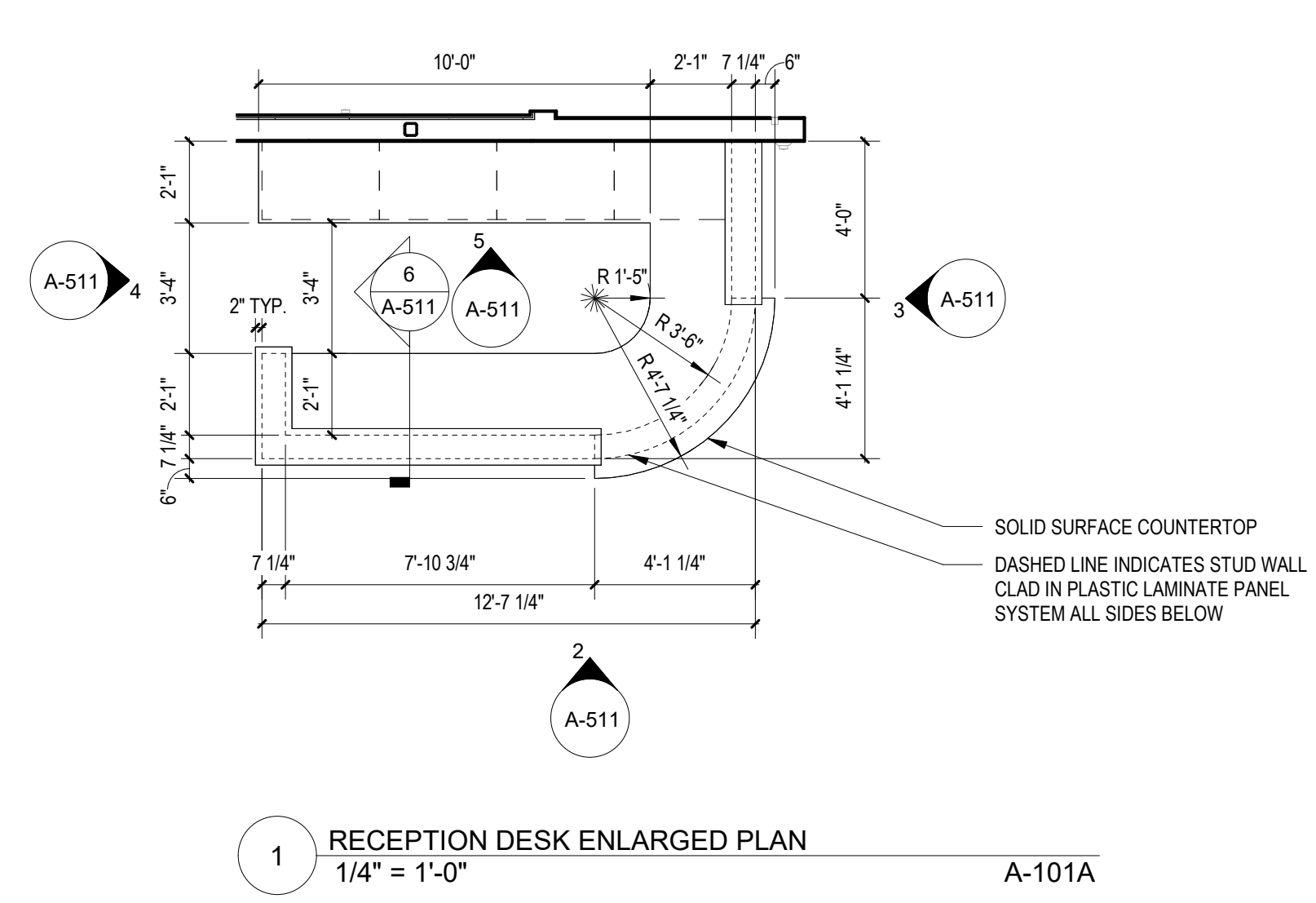
ABBREVIATIONS	
CHT	DIAPER CHANGING STATION
D	DRYER
ENC-1	ELECTRIC WATER COOLER
GB1	GRAB BAR 36"
GB2	GRAB BAR 42"
GB3	GRAB BAR 18"
L1	LAVATORY
MR1	24" X 36" MIRROR
PTD	PAPER TOWEL DISPENSER
SD	SOAP DISPENSER
SN	SANITARY NAPKIN DISPOSAL
TP	TOILET PAPER DISPENSER
U1	URINAL - ACCESSIBLE
U2	URINAL
W	WASHING MACHINE
WC1	WATER CLOSET - CHILD SIZE
WC2	WATER CLOSET
WC3	WATER CLOSET - ACCESSIBLE

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH
SCOTT
COMMUNITY
SCHOOL
DISTRICT**

**ADDITION &
RENOVATION TO
NEIL
ARMSTRONG**

212 S Parkview Drive
Eldridge, IA 52748

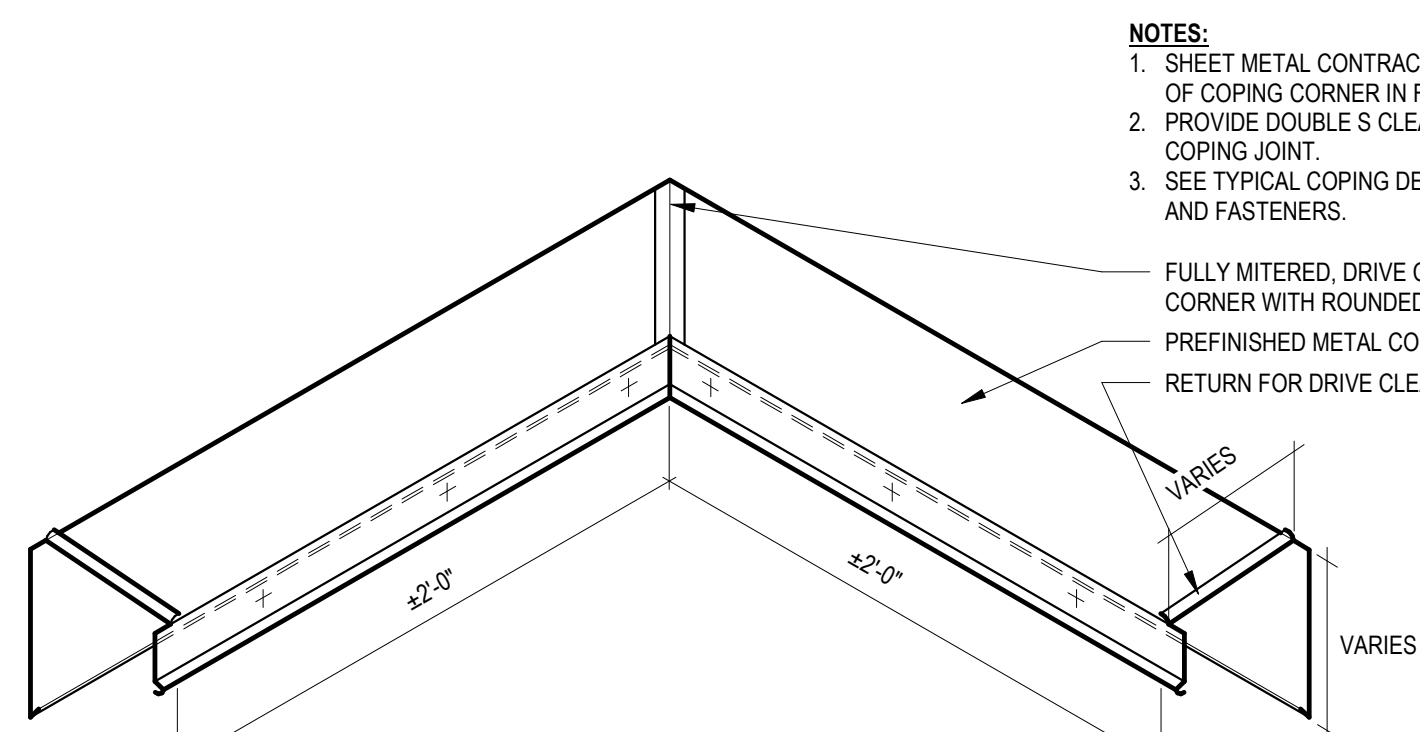


PROJECT NUMBER	223047.00
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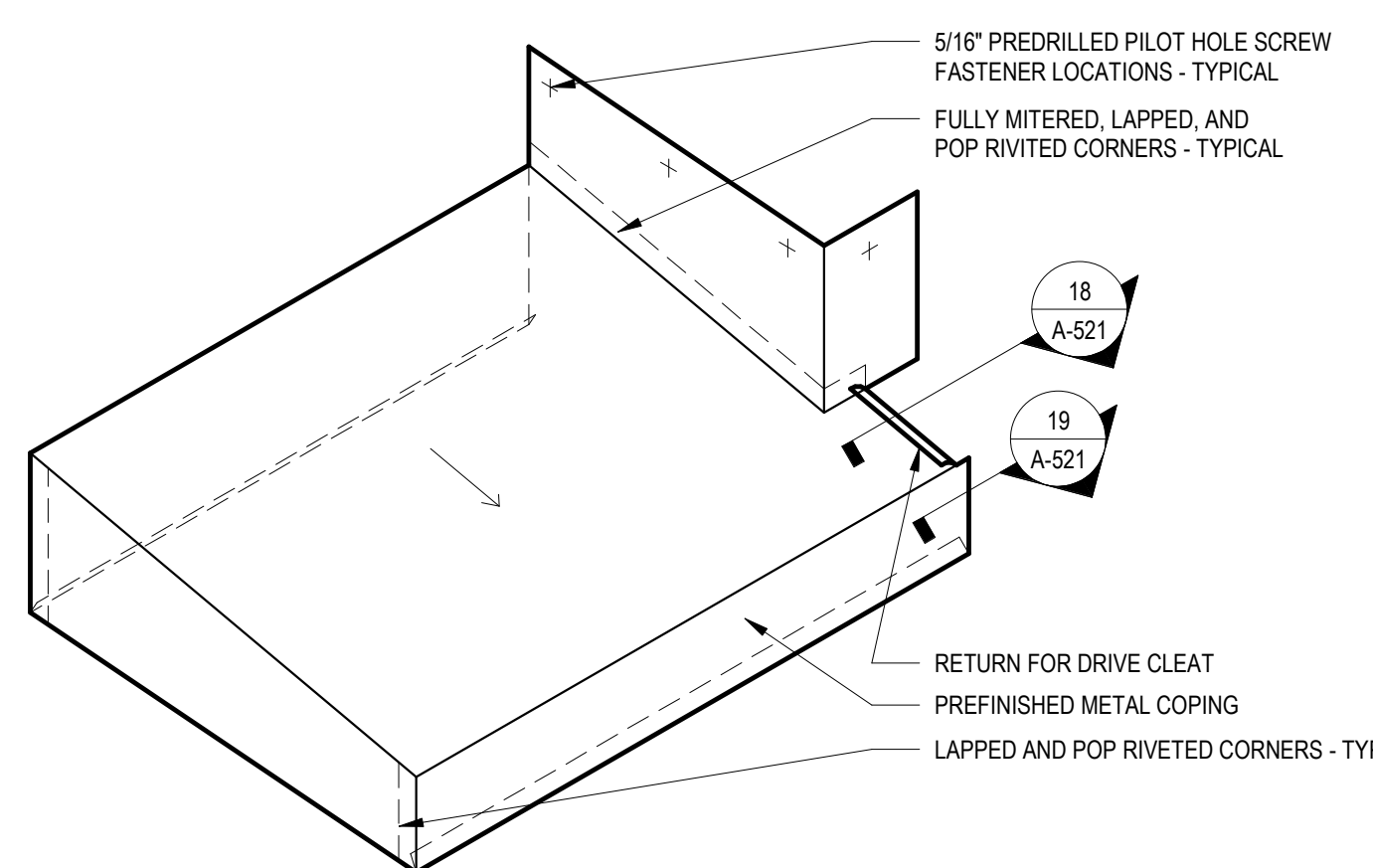
INTERIOR DETAILS

A-511
ISSUED FOR BIDDING

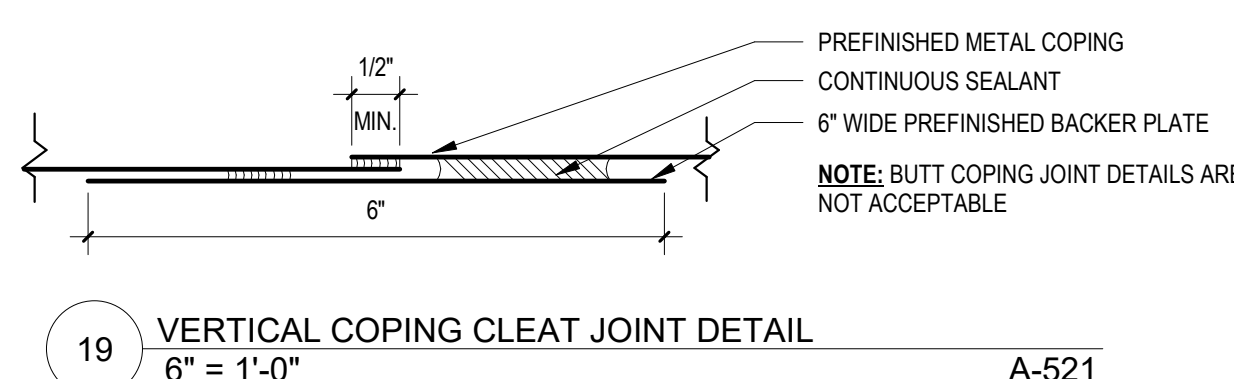
22 INSIDE COPING CORNER DETAIL
1 1/2" = 1'-0"



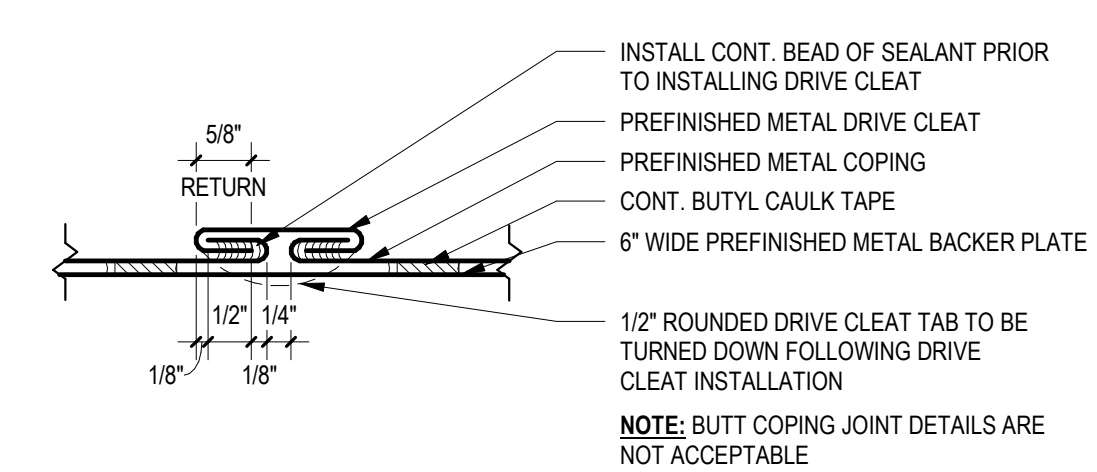
21 OUTSIDE COPING CORNER DETAIL
1 1/2" = 1'-0"



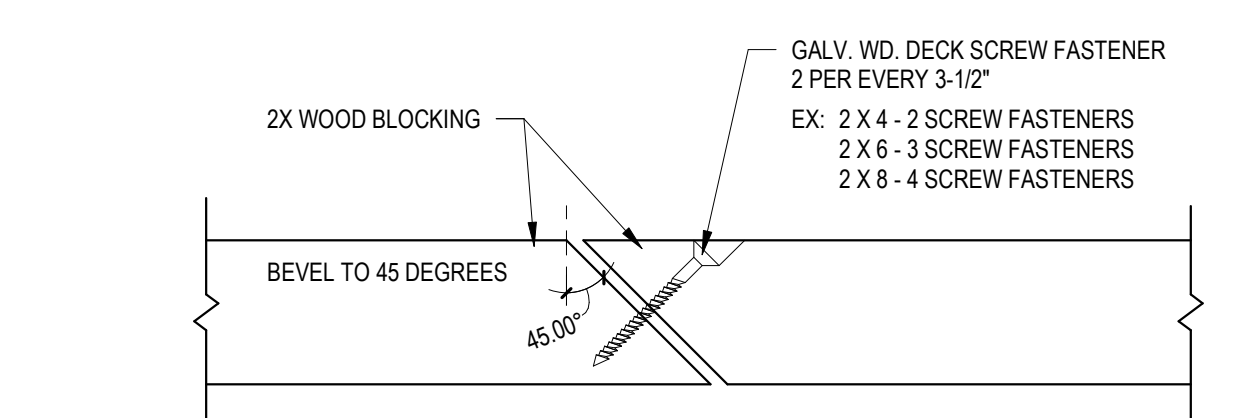
20 END WALL FLASHING DETAIL
1 1/2" = 1'-0"



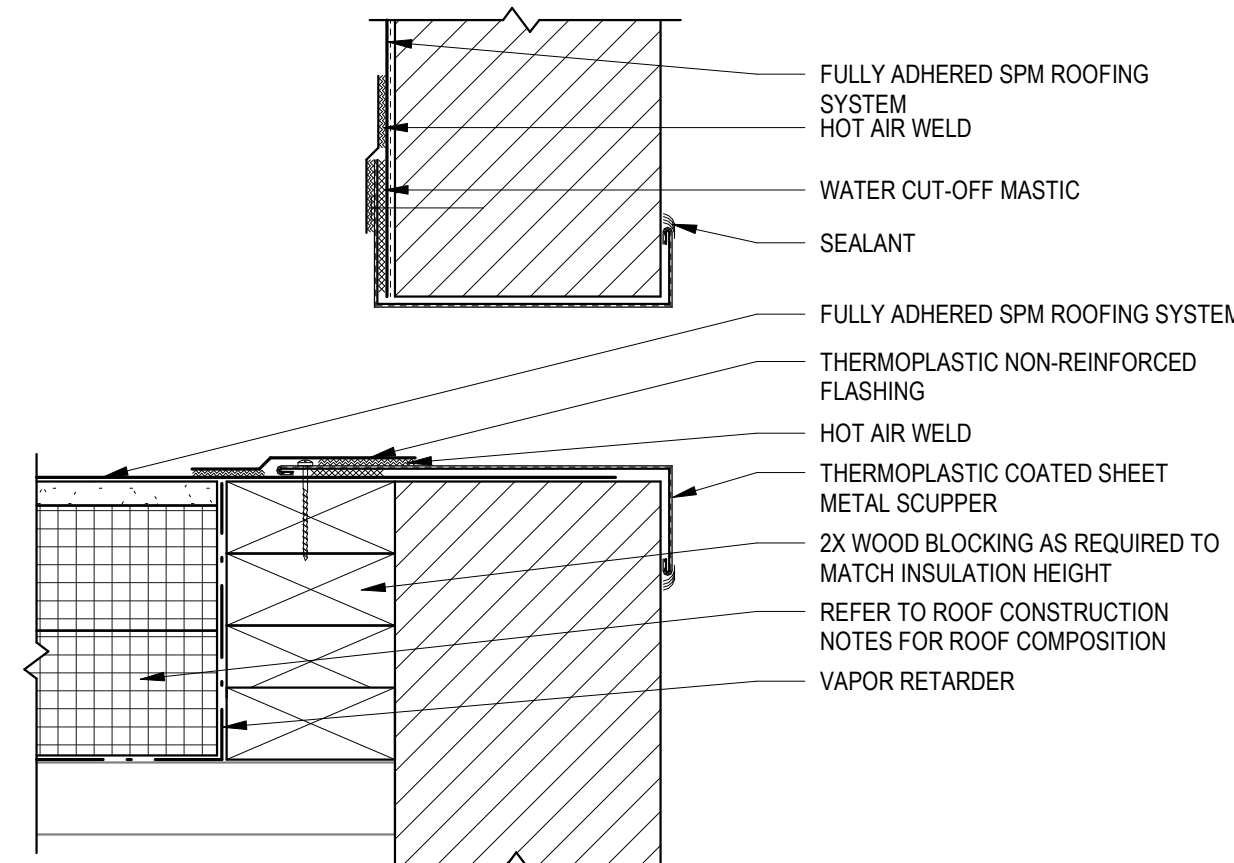
19 VERTICAL COPING CLEAT JOINT DETAIL
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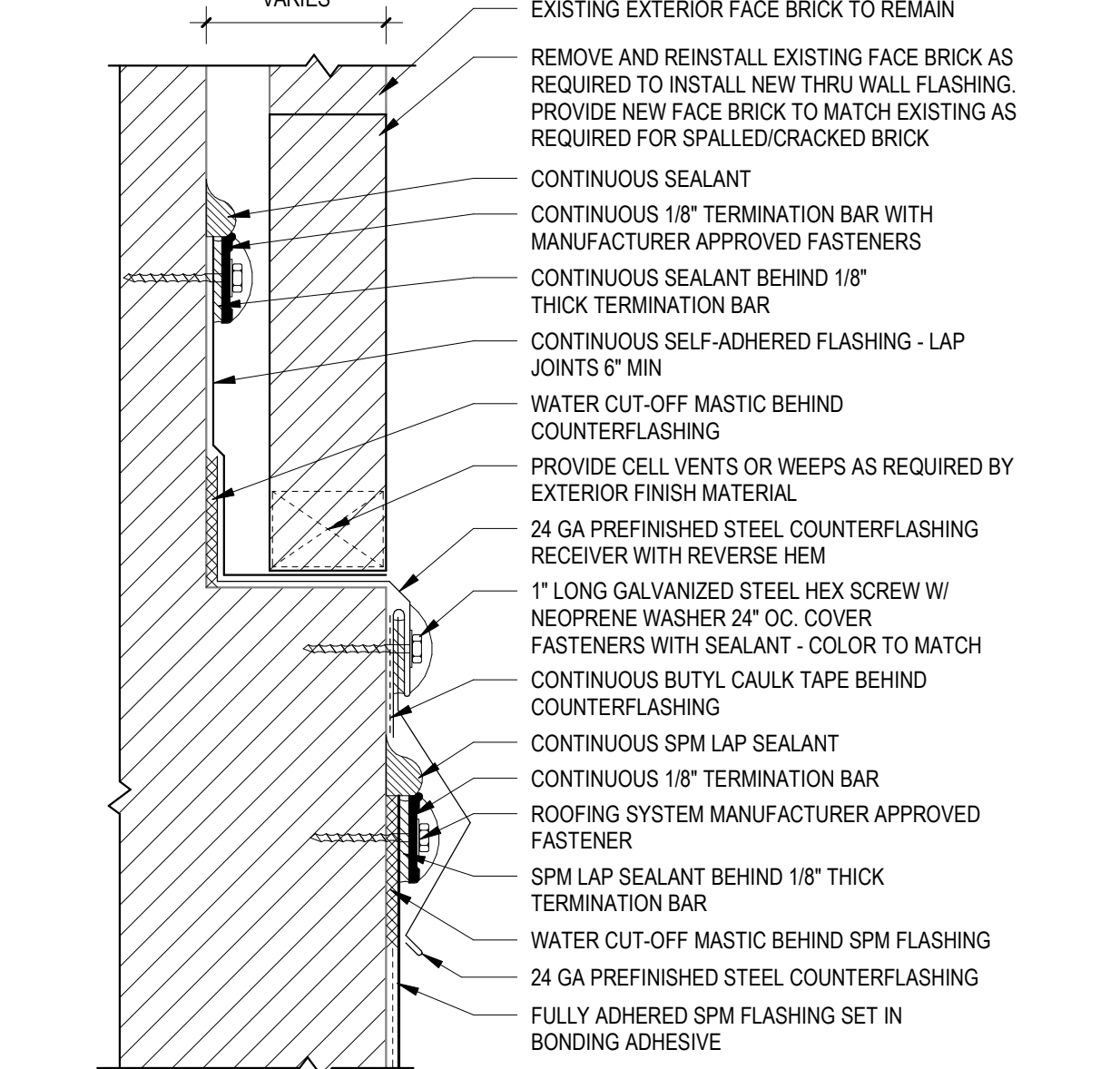
18 HORIZONTAL COPING CLEAT JOINT DETAIL
6\"/>



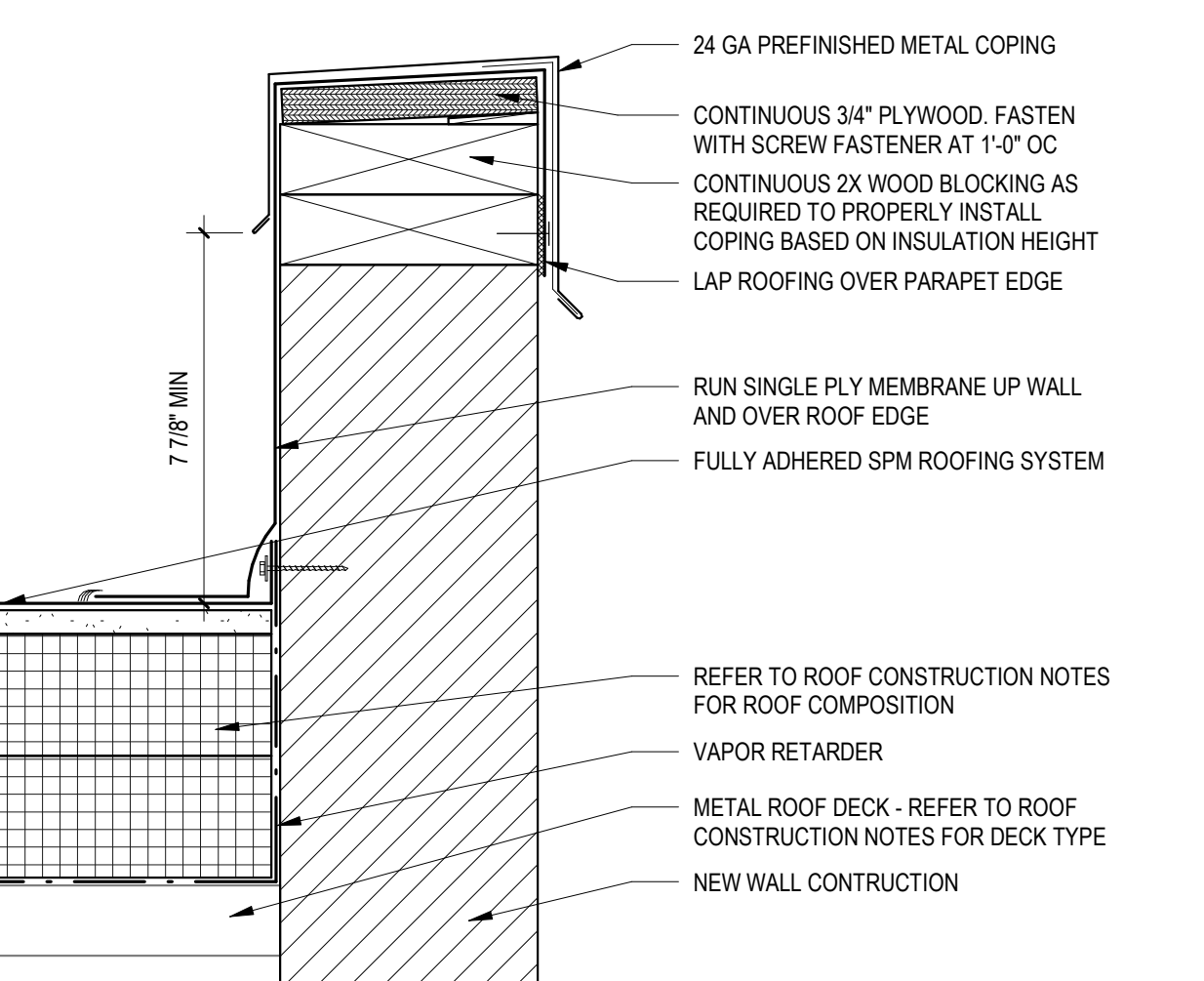
17 TYP. MITERED WOOD BLOCKING DETAIL
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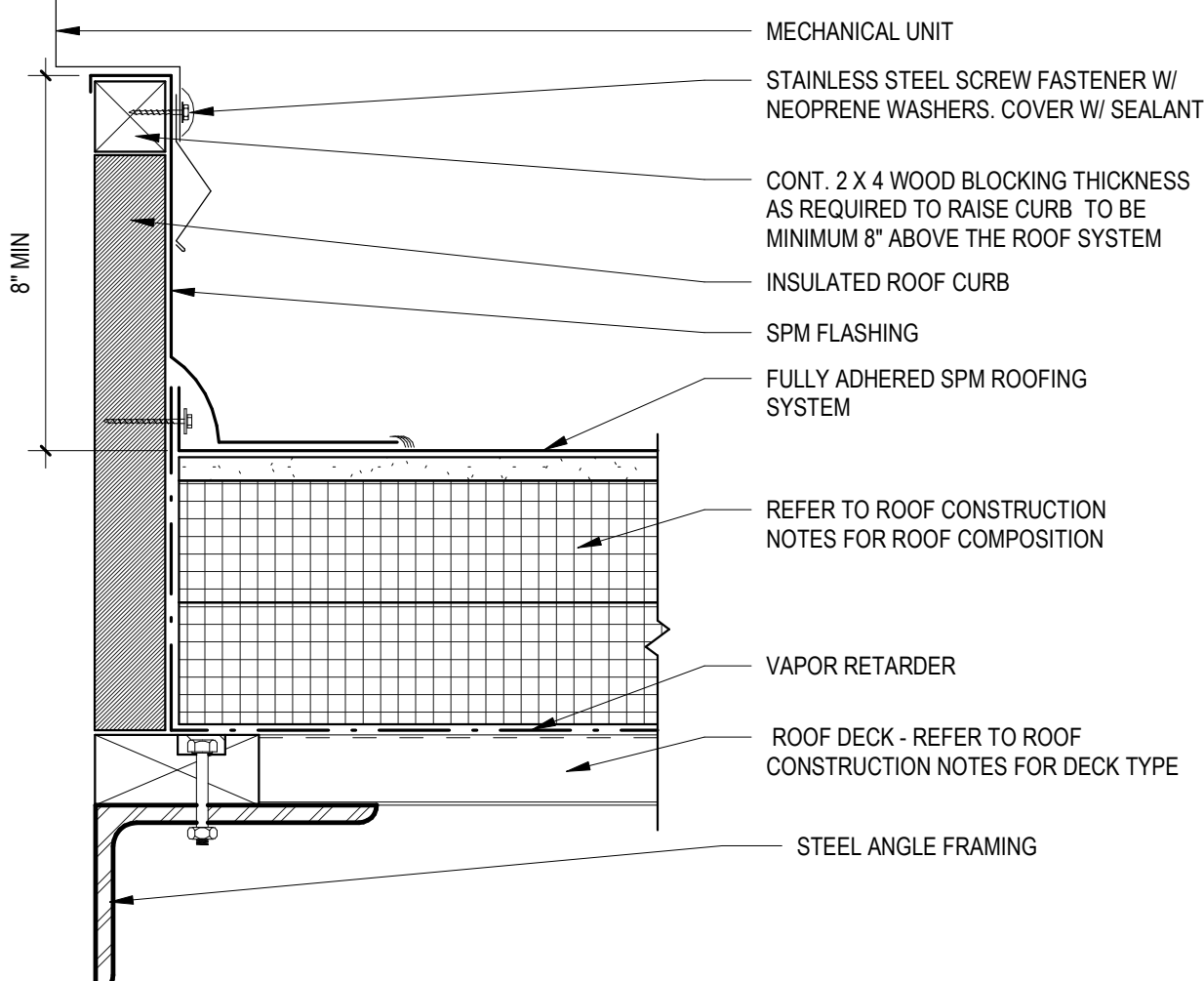
16 THERMOPLASTIC COATED SCUPPER
3\"/>



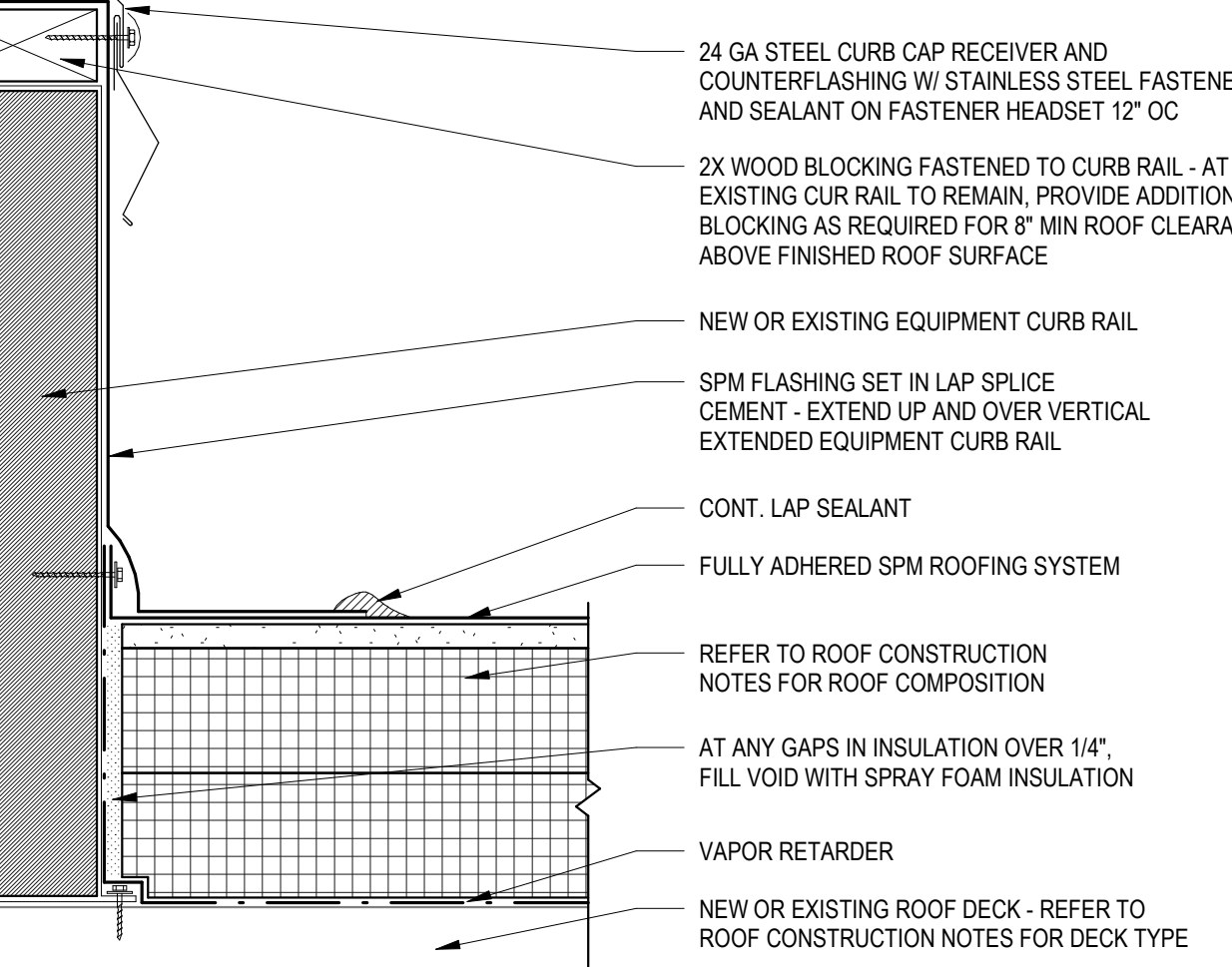
15 TERMINATION W/ COUNTERFLASHING SILL
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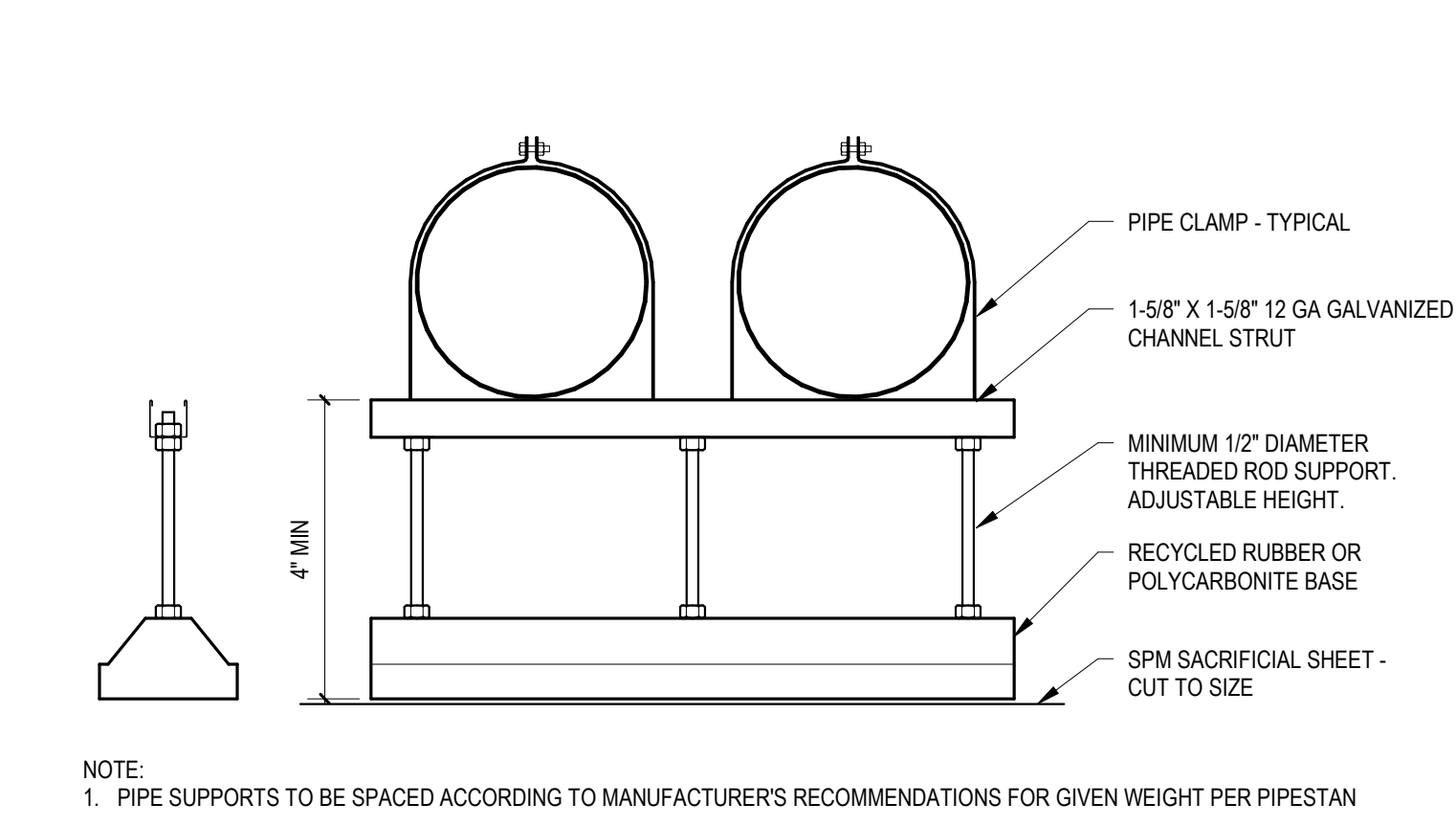
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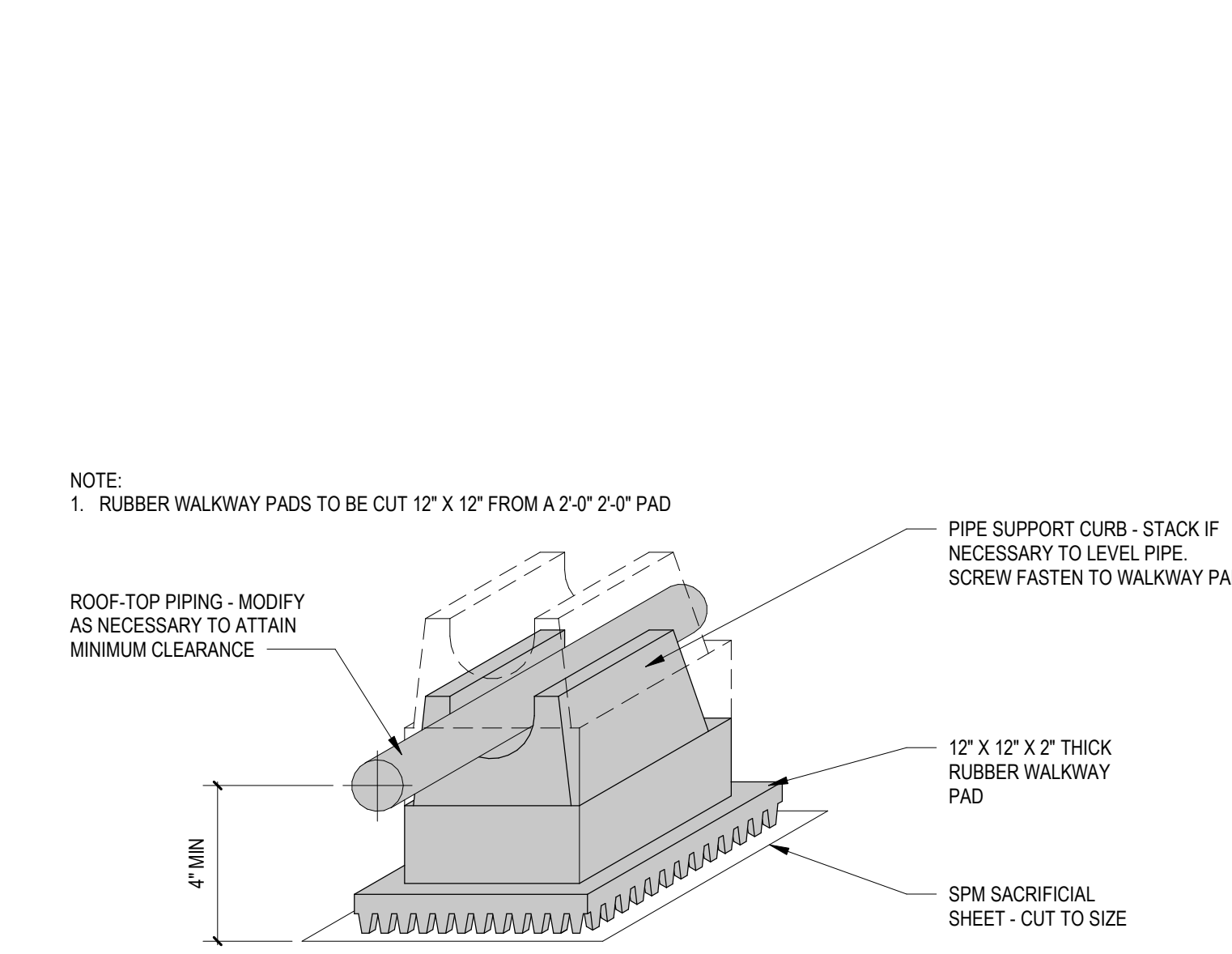
13 CURB - HVAC UNIT
3\"/>



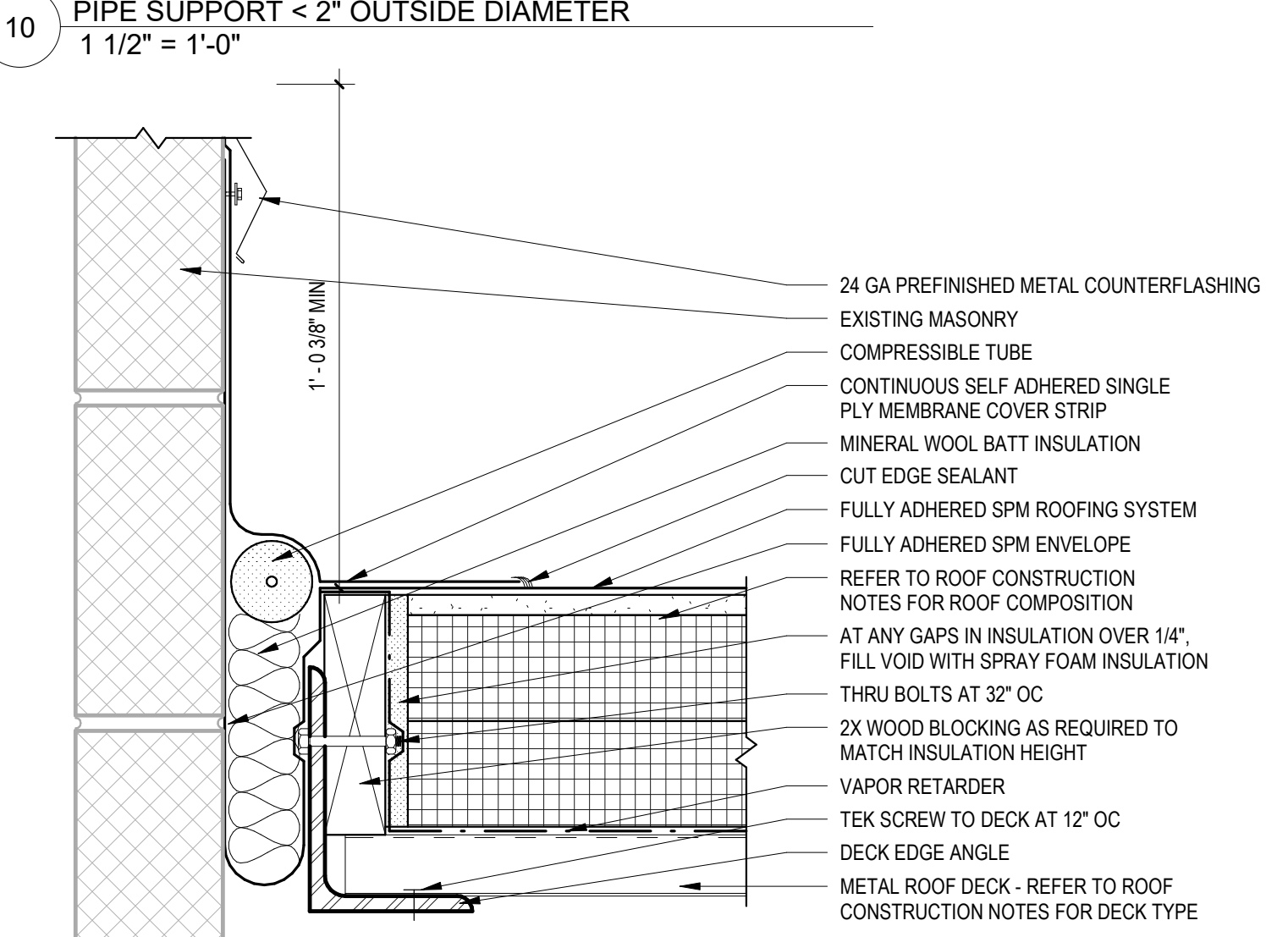
12 ROOF CURB - PREFABRICATED
3\"/>



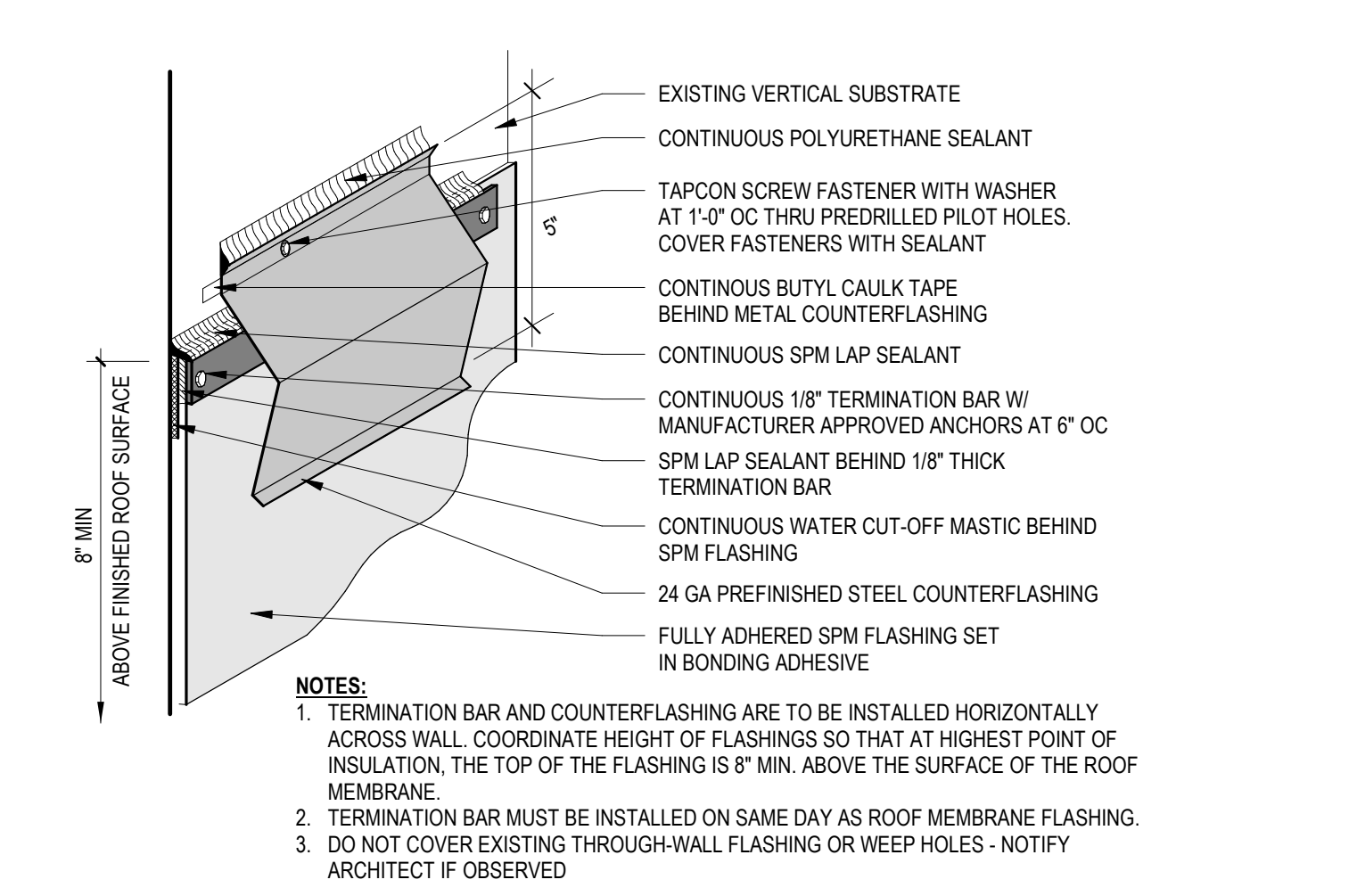
11 PIPE SUPPORT > 2\"/>



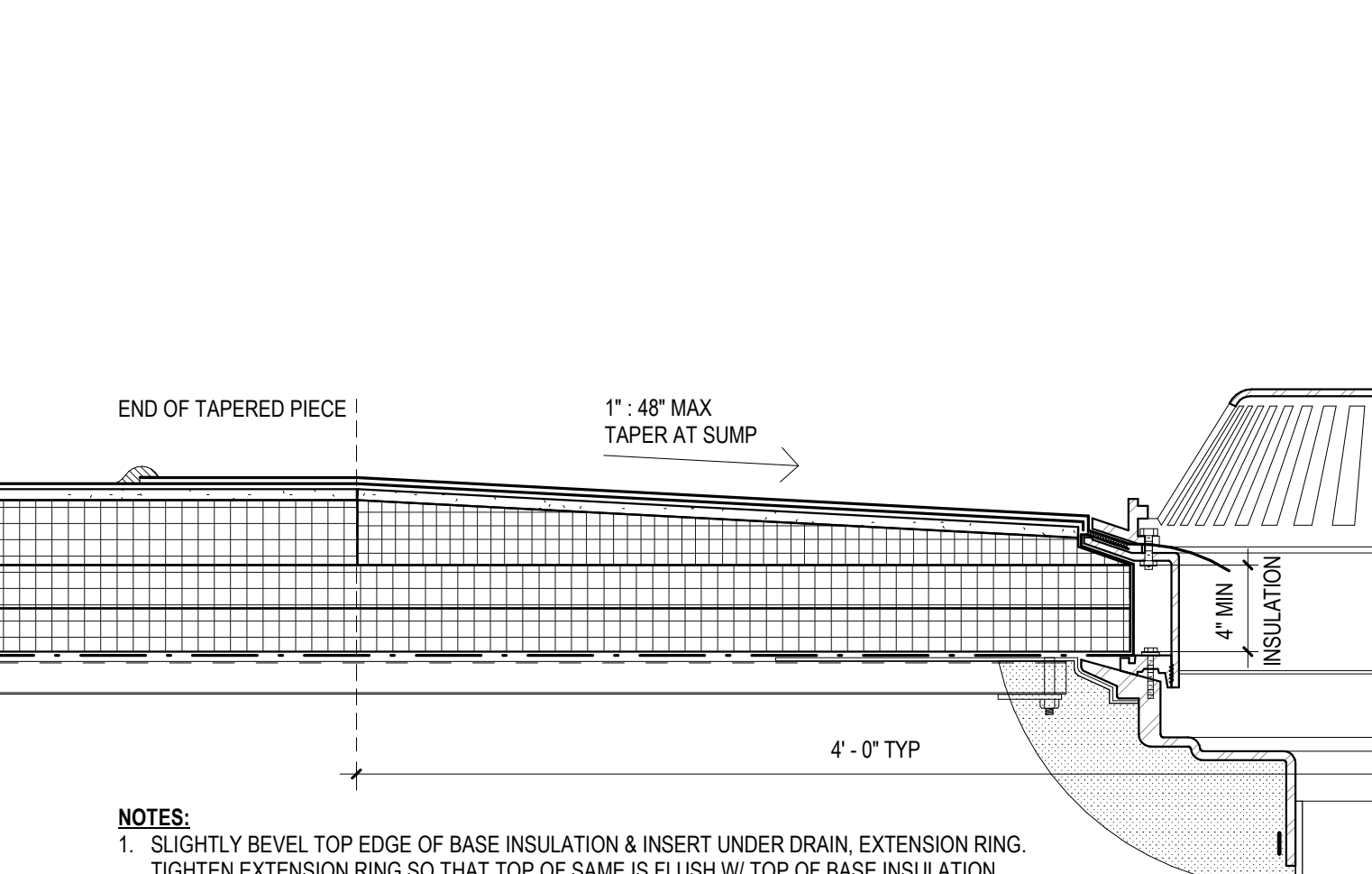
10 PIPE SUPPORT < 2\"/>



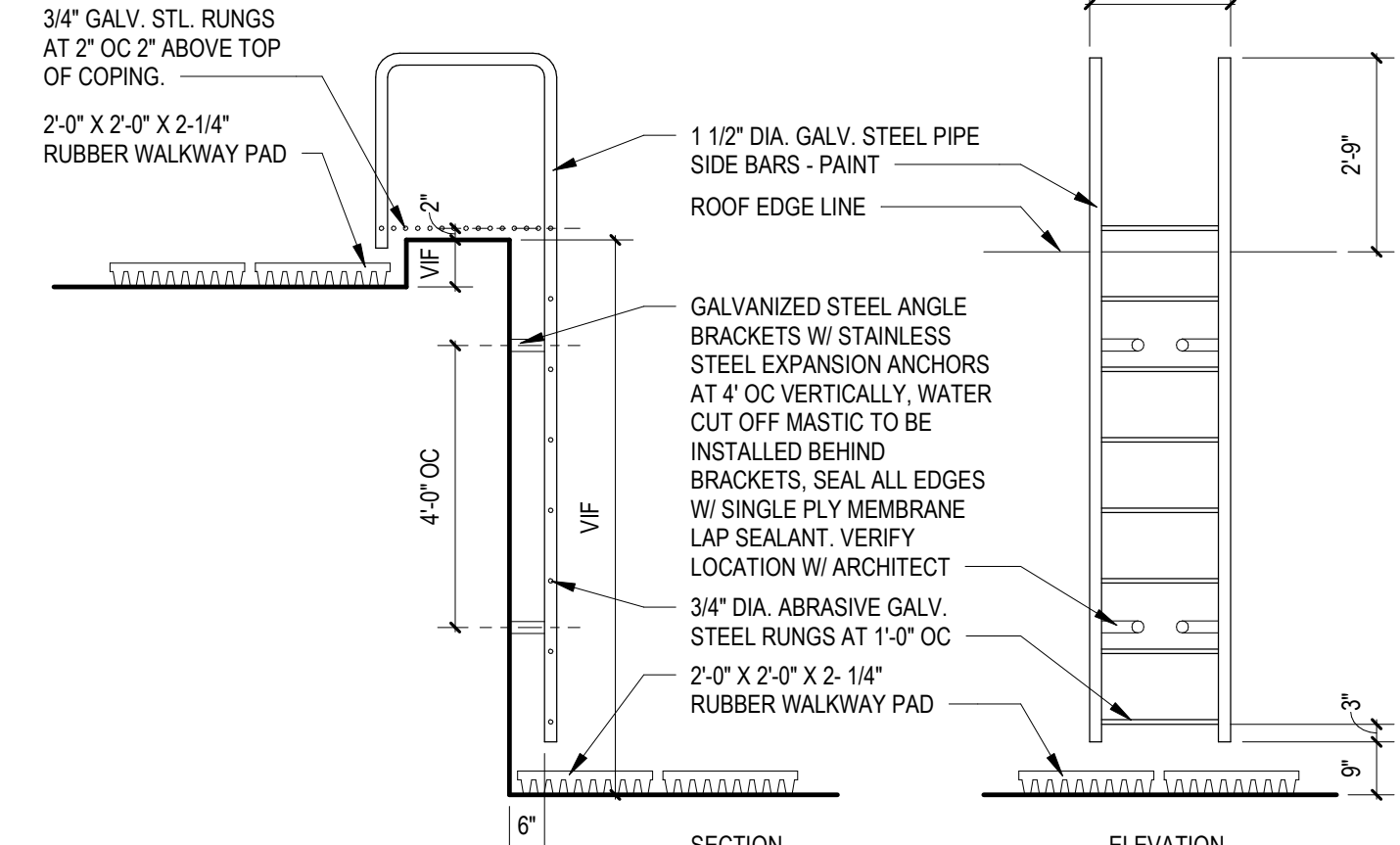
9 EXPANSION JOINT - COMPRESSIBLE TUBE
3\"/>



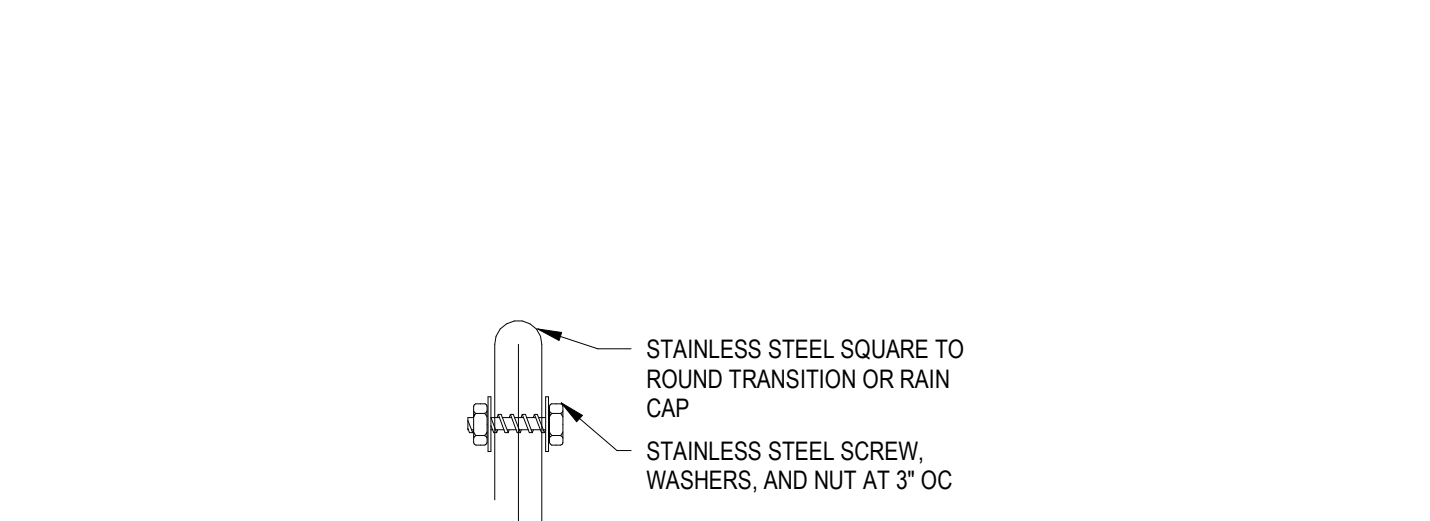
8 TERMINATION W/ COUNTERFLASHING AXON
3\"/>



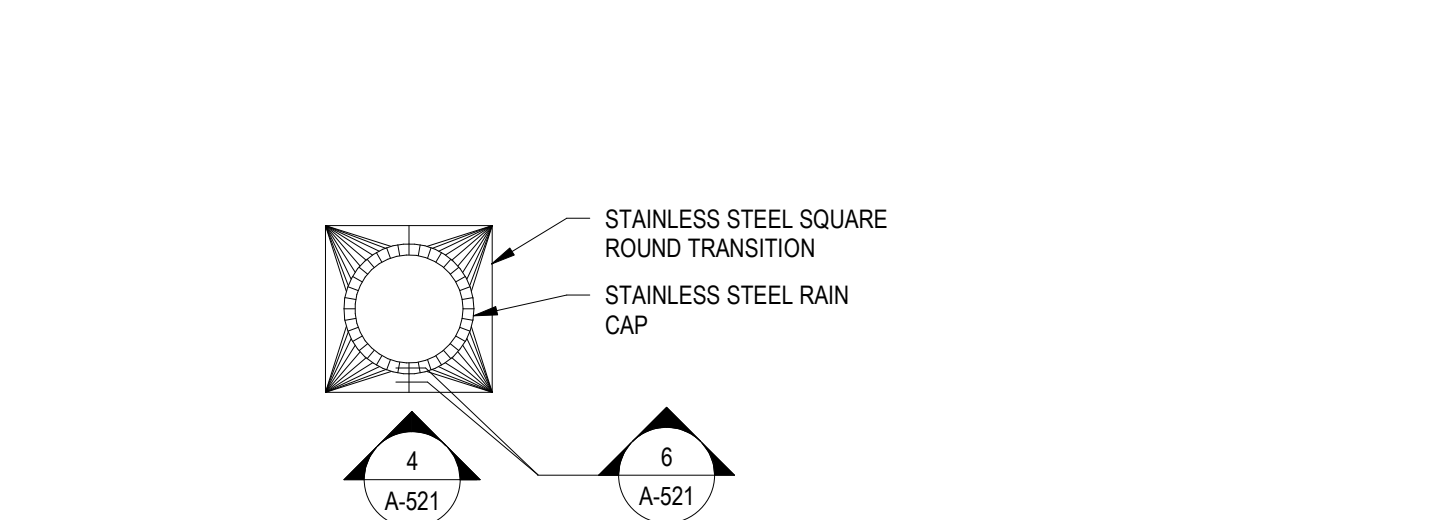
7 ROOF LADDER DETAIL
3/8\"/>



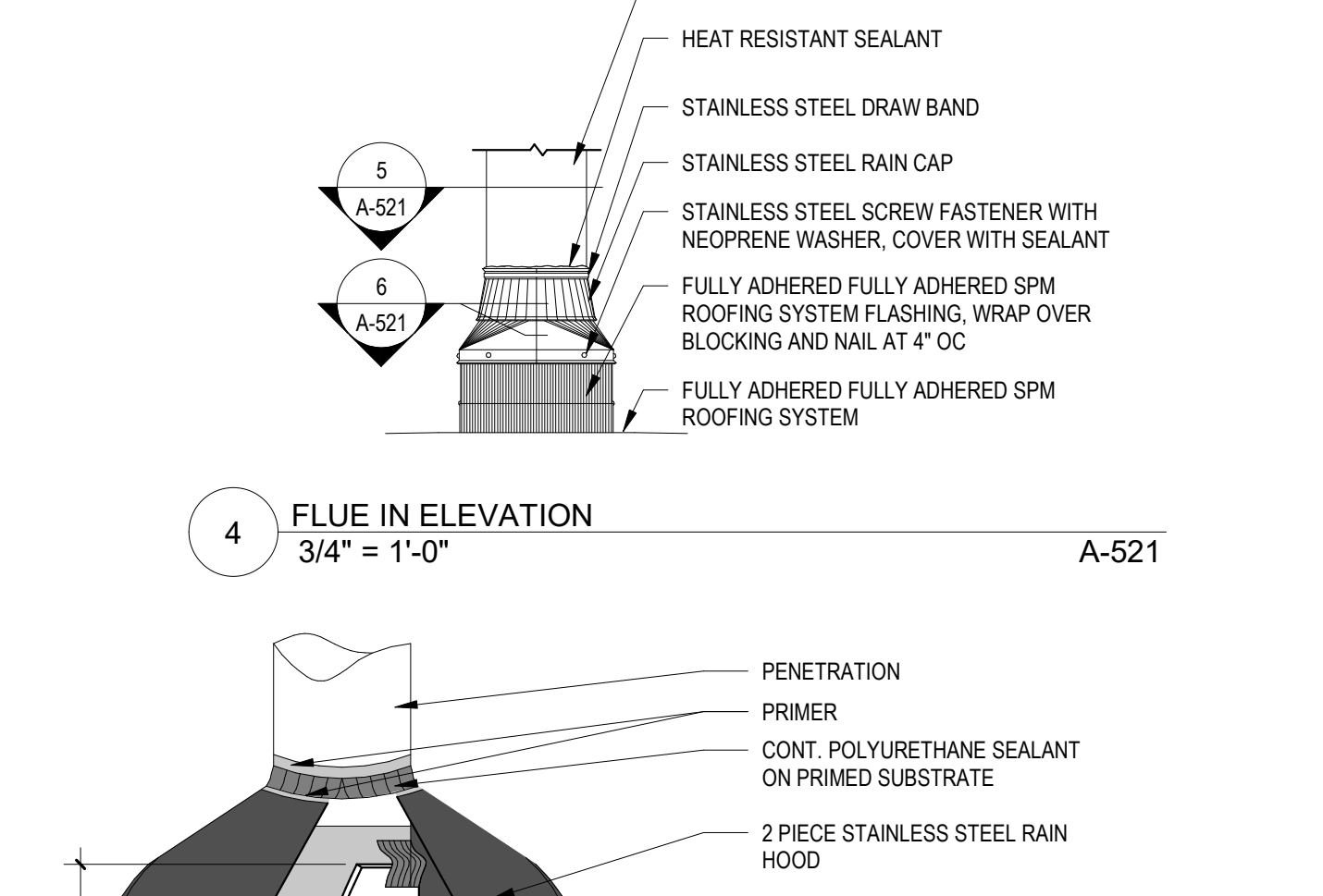
6 FLUE SHEET METAL SEAM
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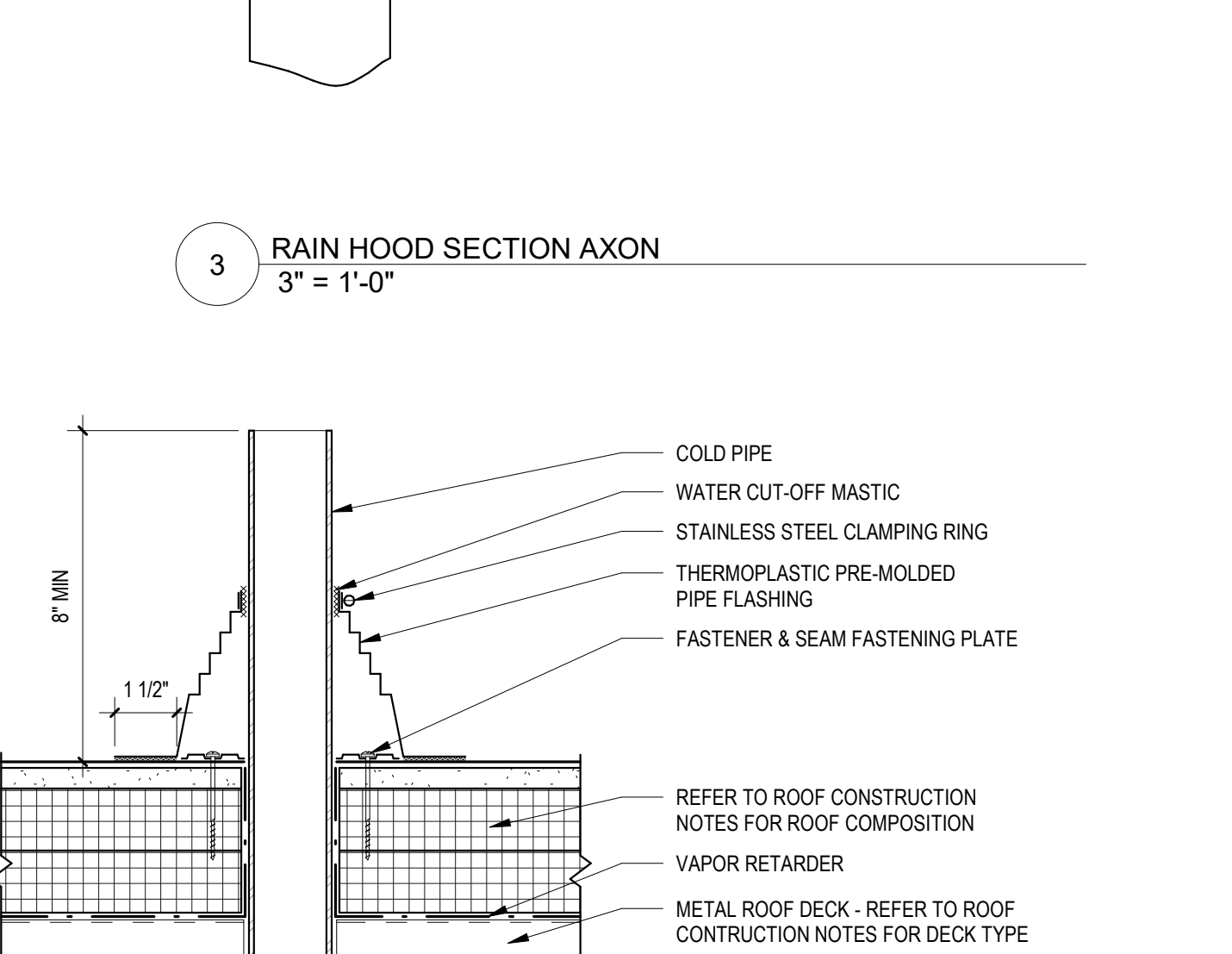
5 FLUE IN PLAN
3/4\"/>



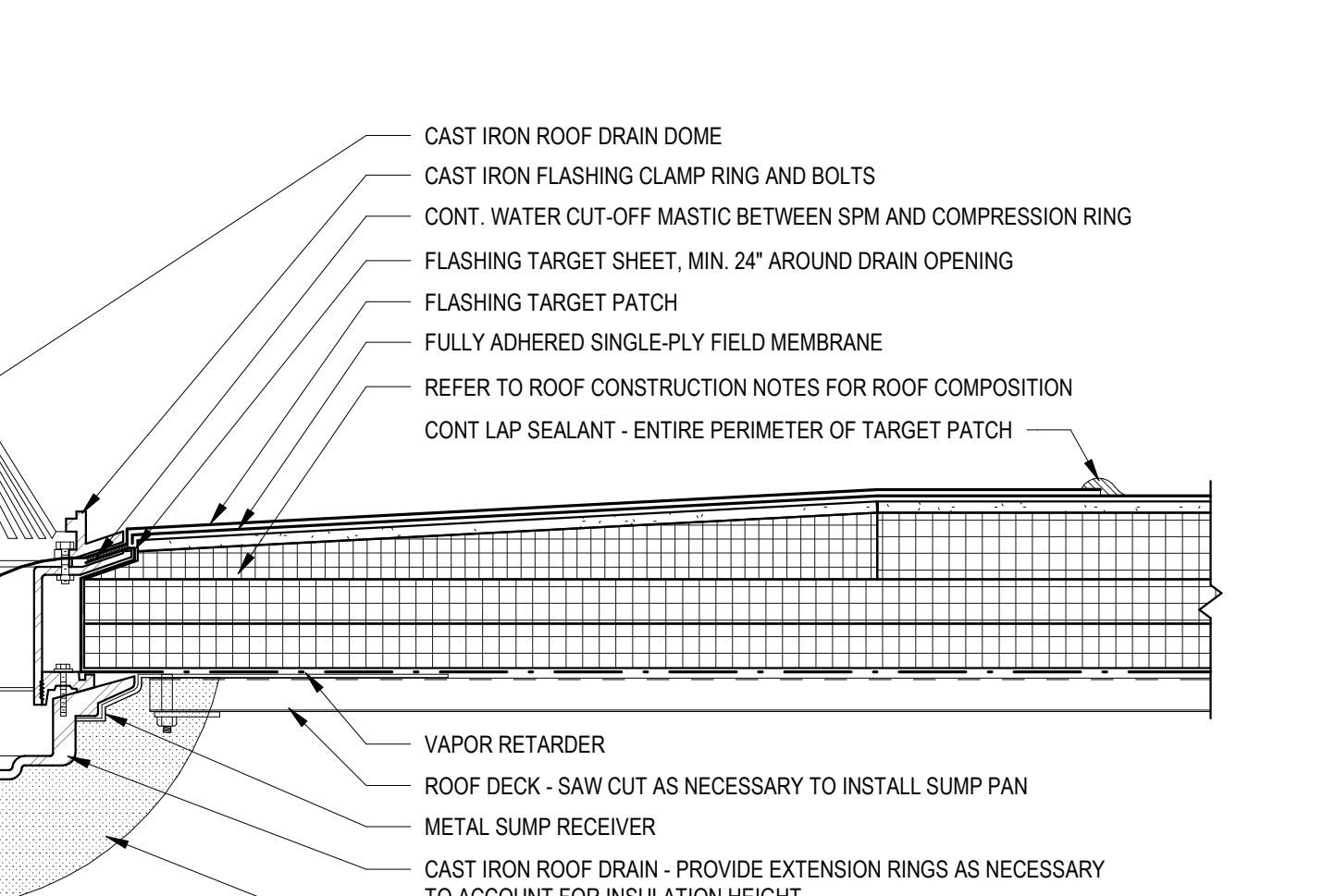
4 FLUE IN ELEVATION
3/4\"/>



3 RAIN HOOD SECTION AXON
3\"/>



2 COLD PIPE FLASHING - PRE-MOLDED
3\"/>



1 ROOF PENETRATION - ROOF DRAIN
1 1/2\"/>



NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION & RENOVATION TO NEIL ARMSTRONG

212 S Parkway Drive
Eldridge, IA 52748

ARCHITECT

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RTM Engineering

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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 223047.00
DATE OF ISSUE 12.15.23
DRAWN BY BE
CHECKED BY JS

TYPICAL ROOF DETAILS - PREFINISHED METAL

NORTH
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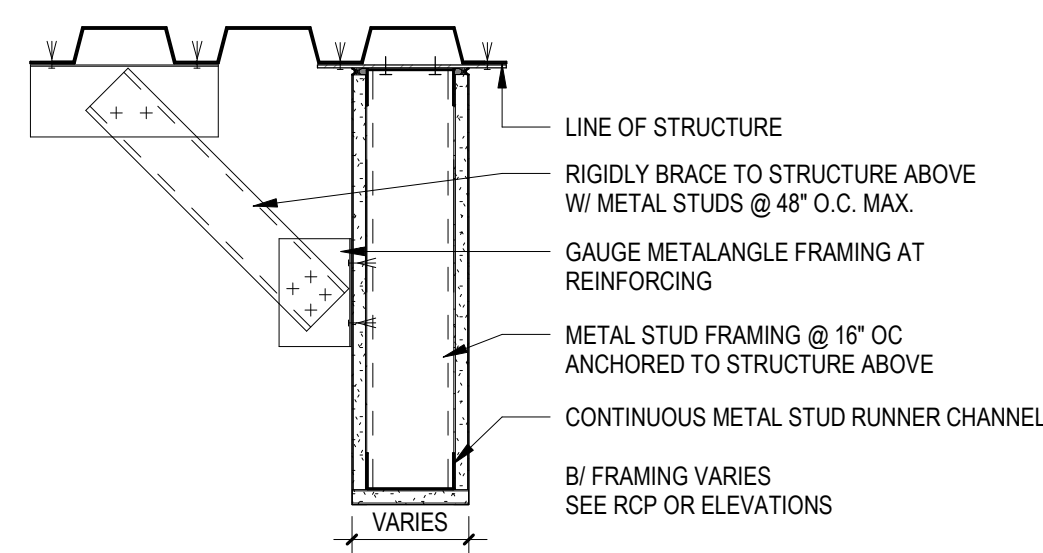
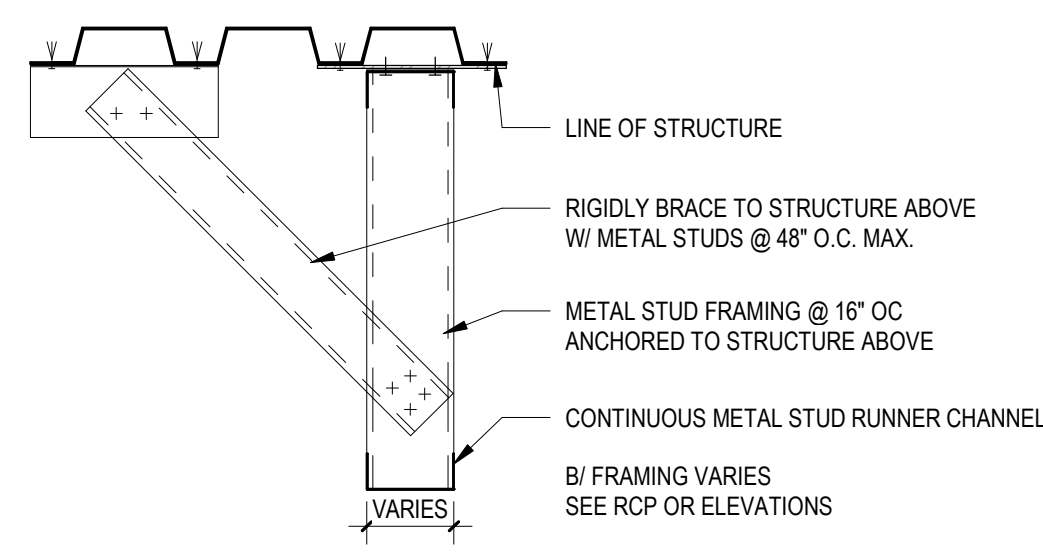
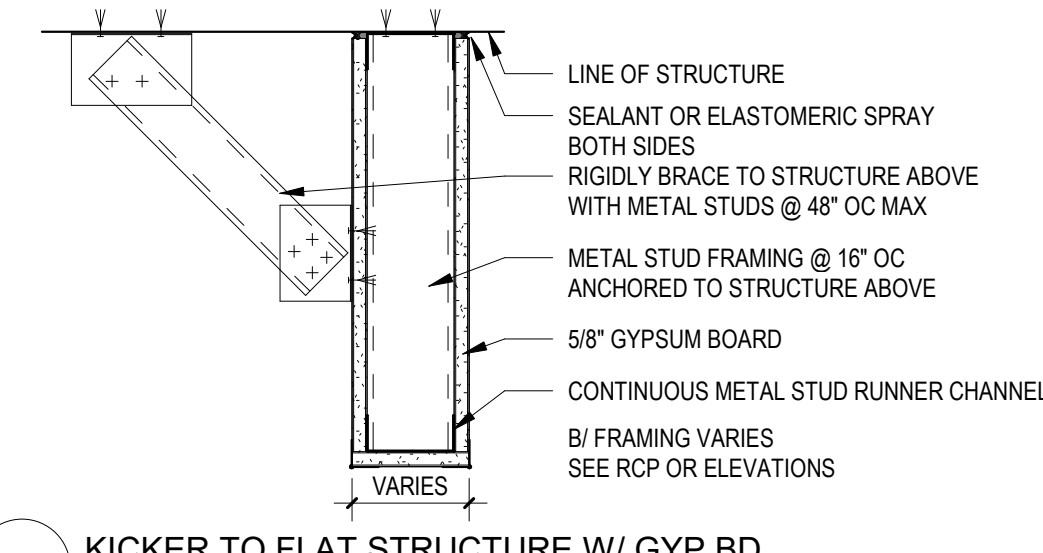
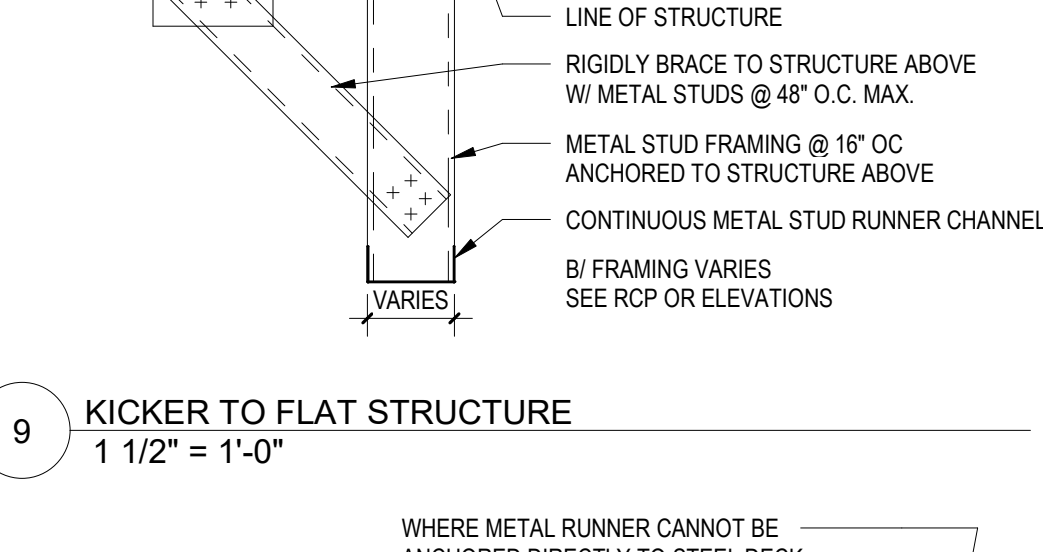
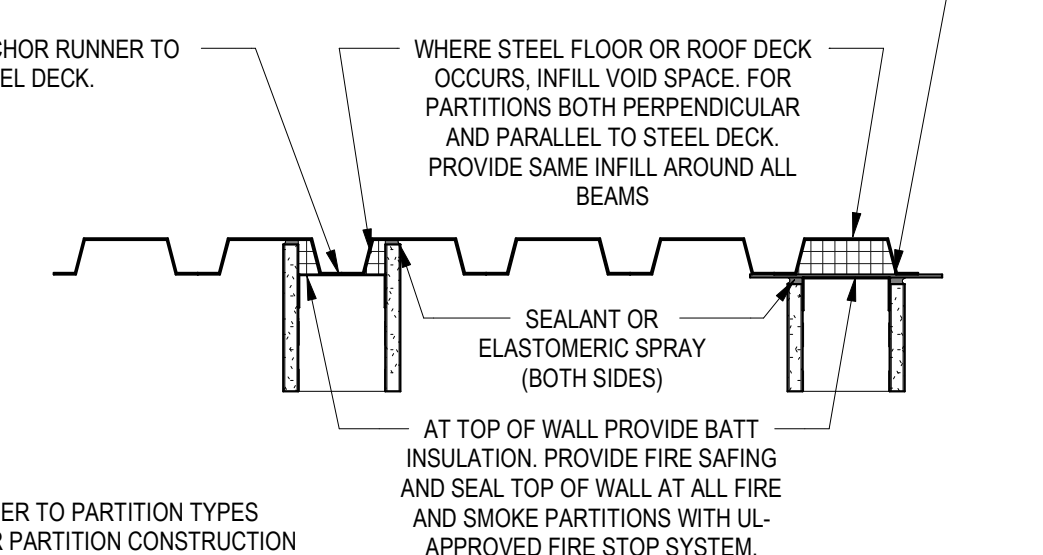
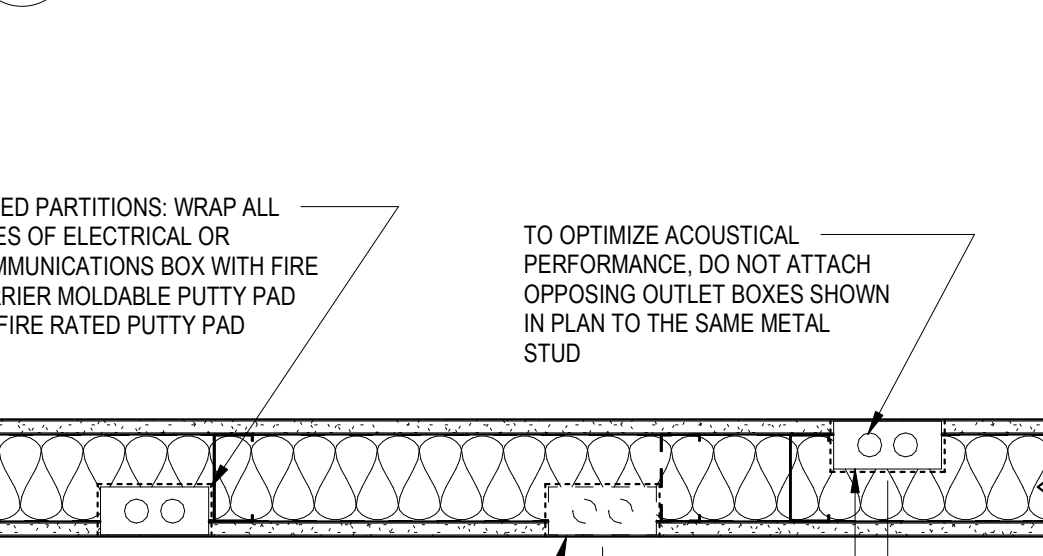
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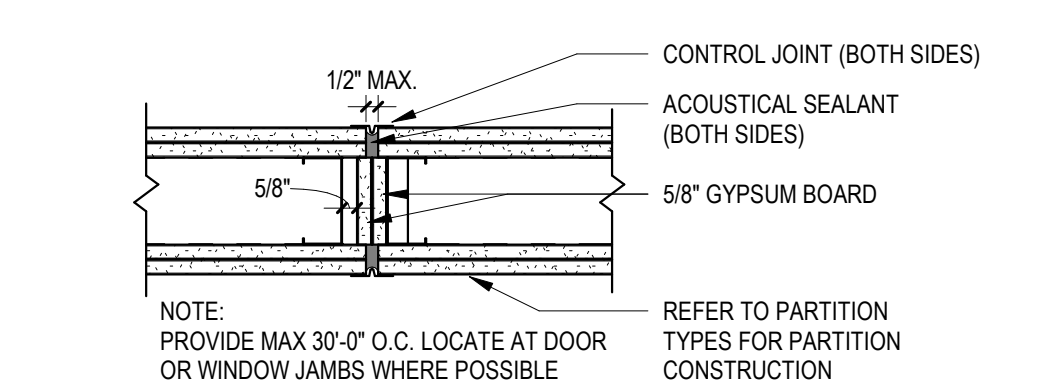
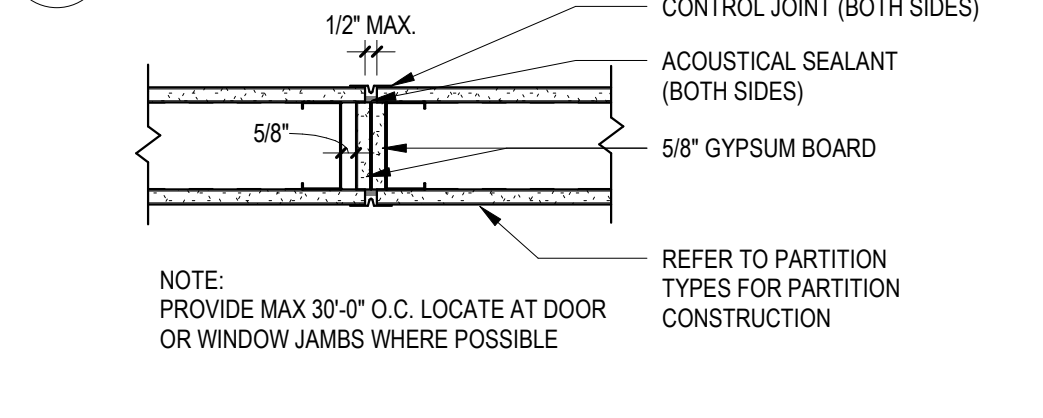
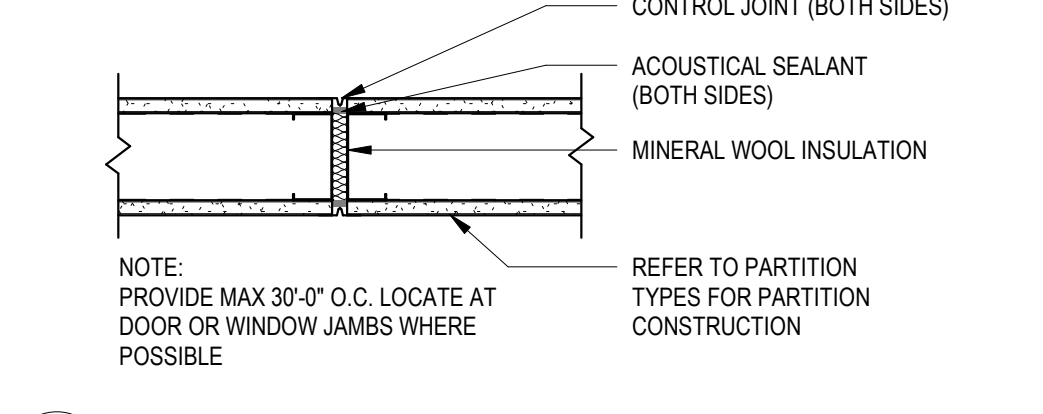
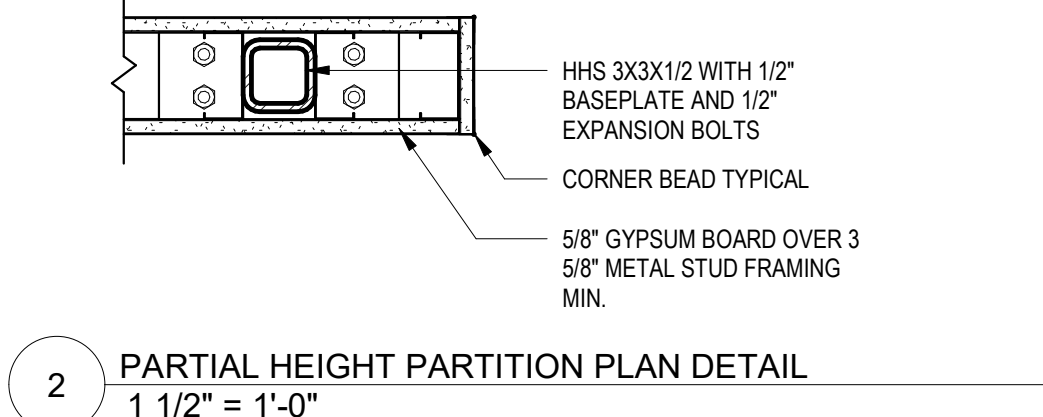
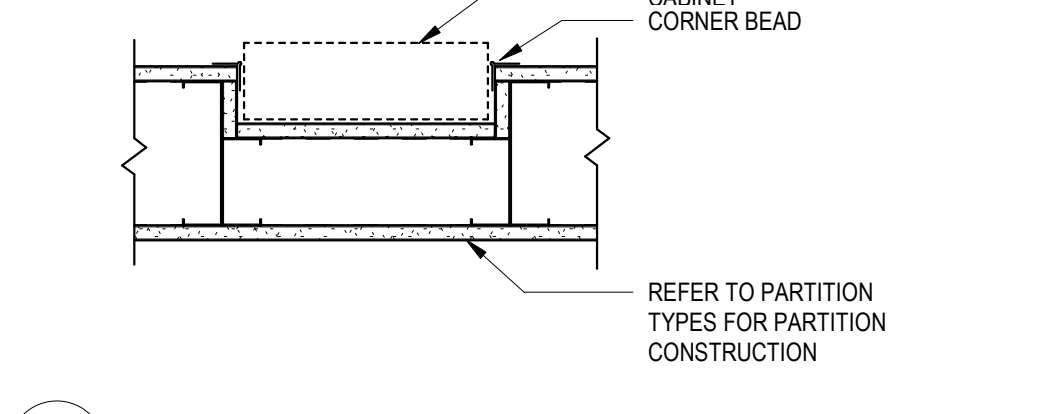
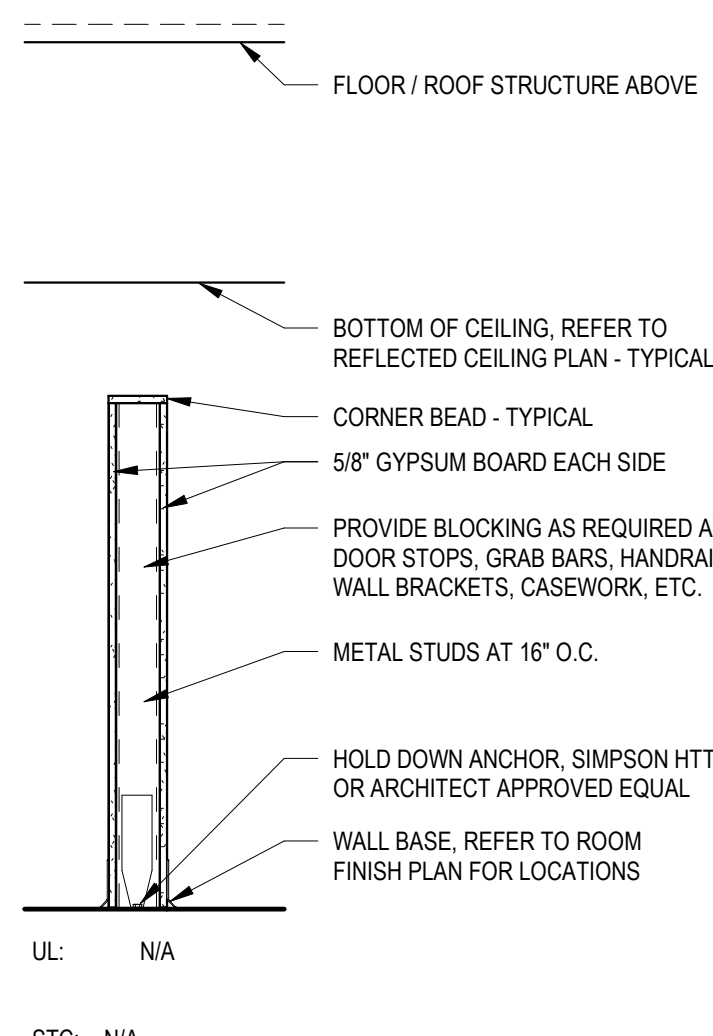
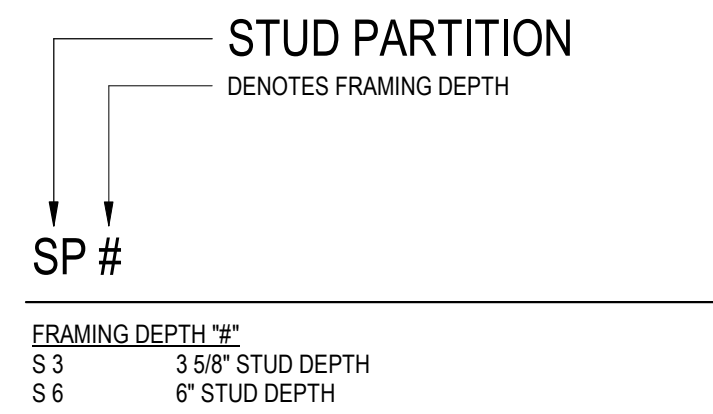
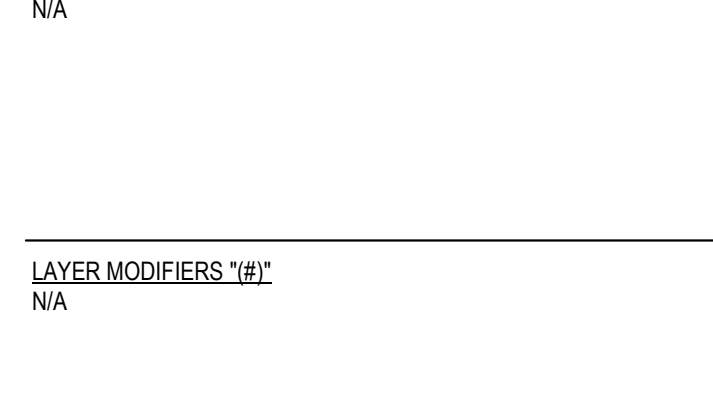
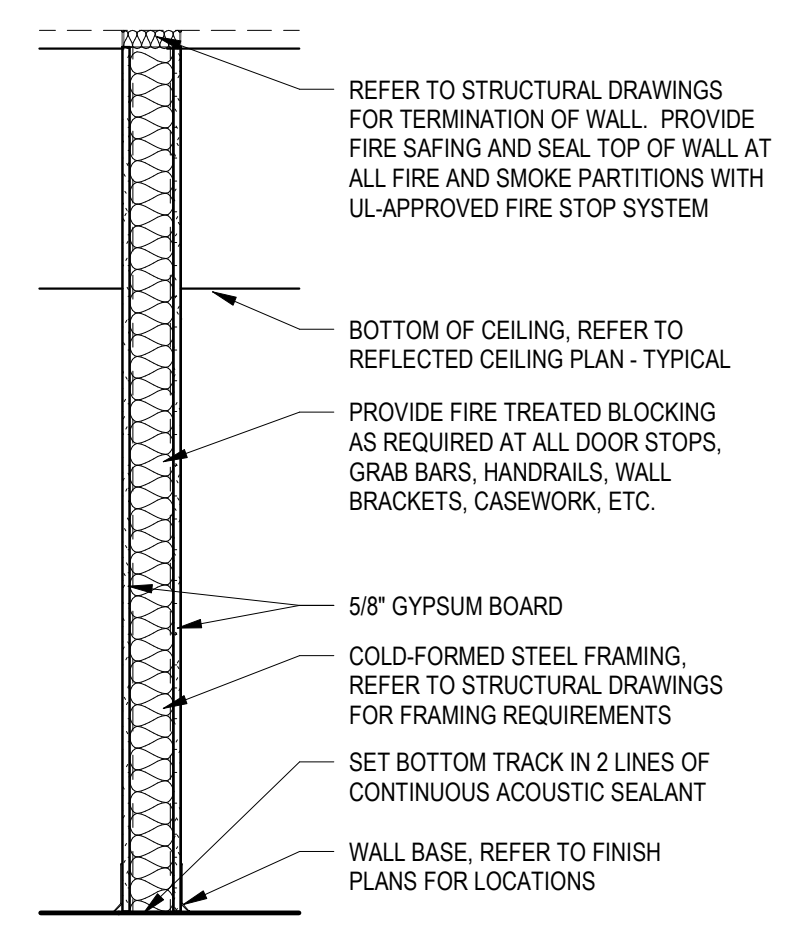
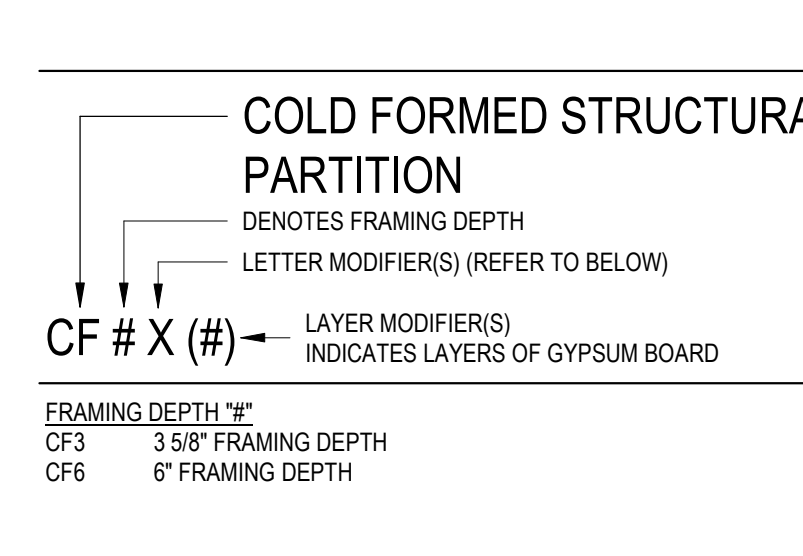
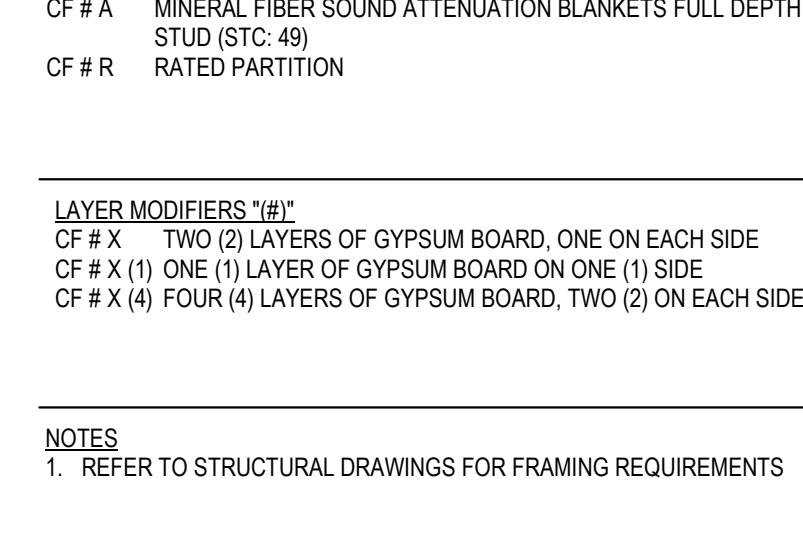
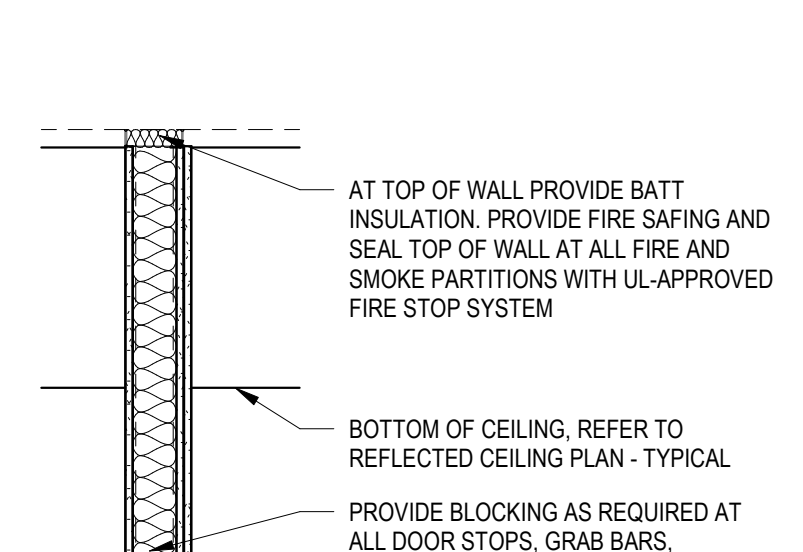
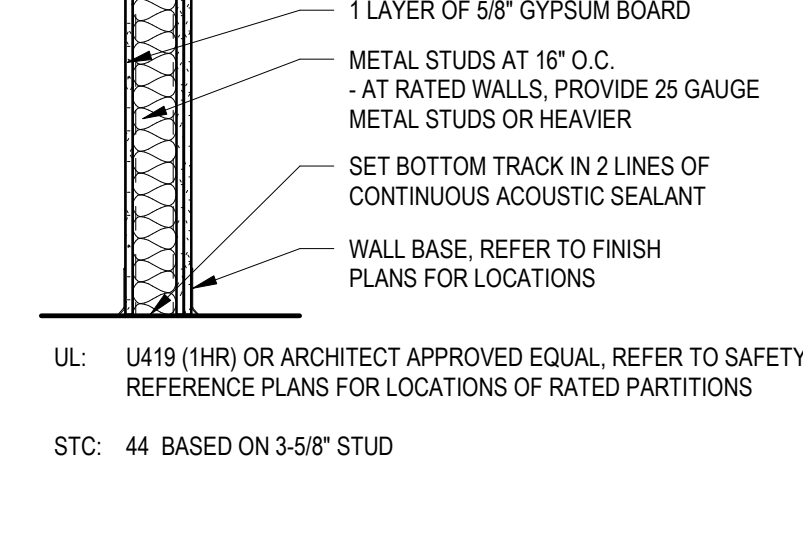
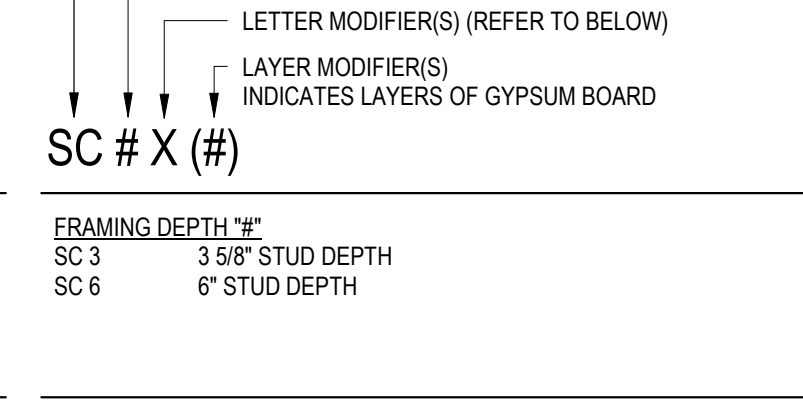
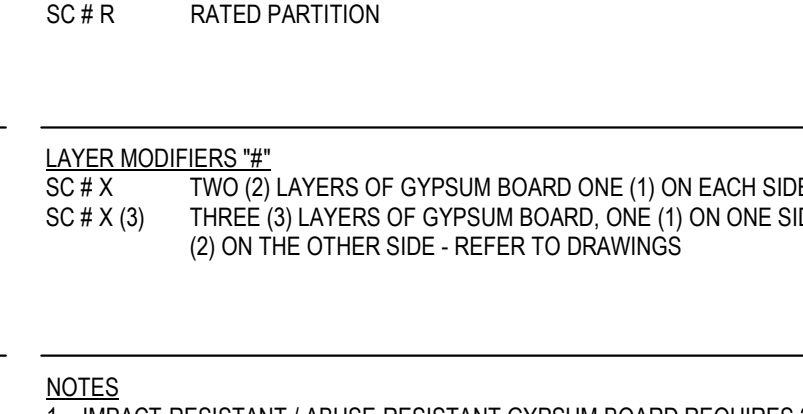
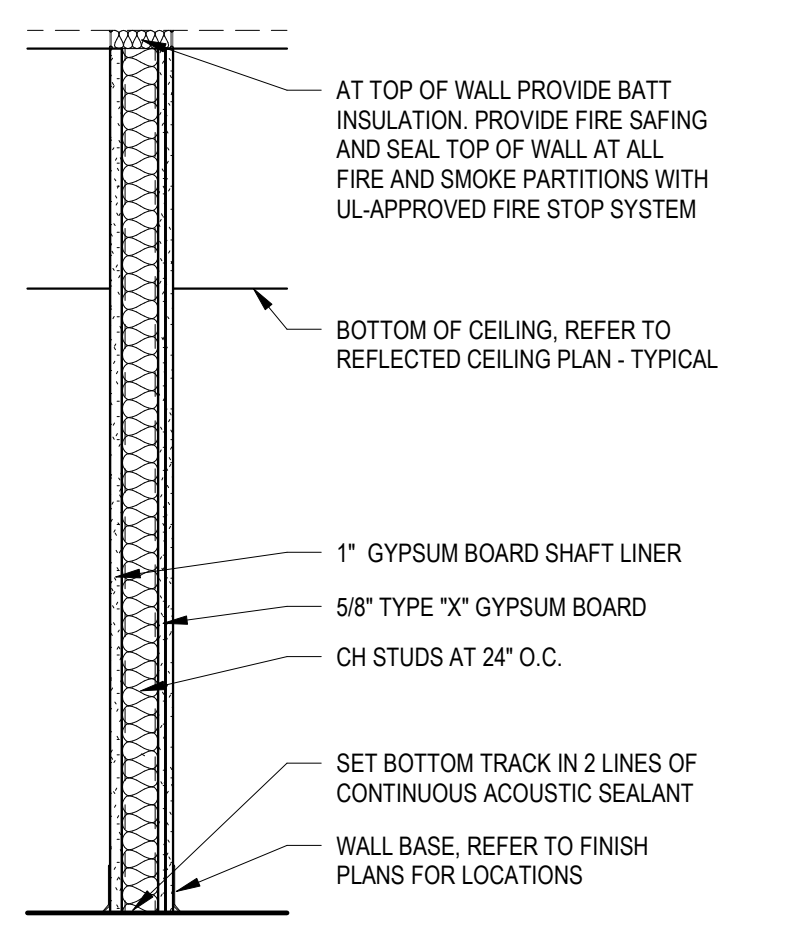
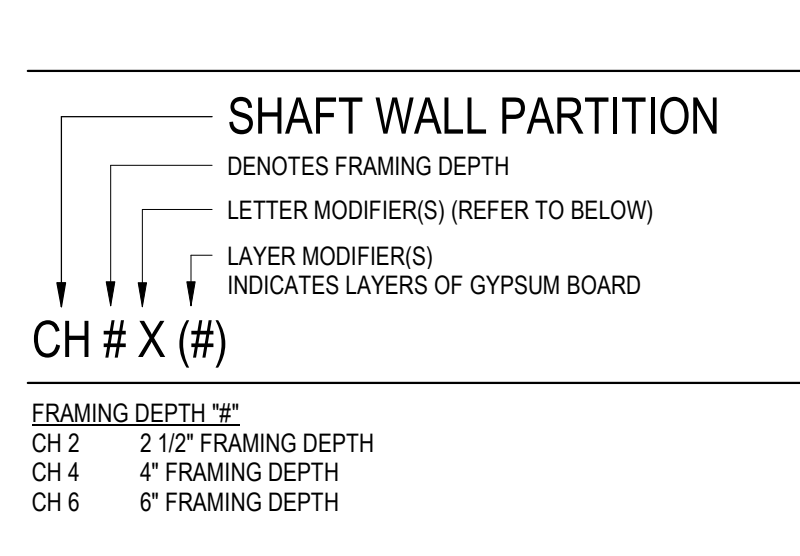
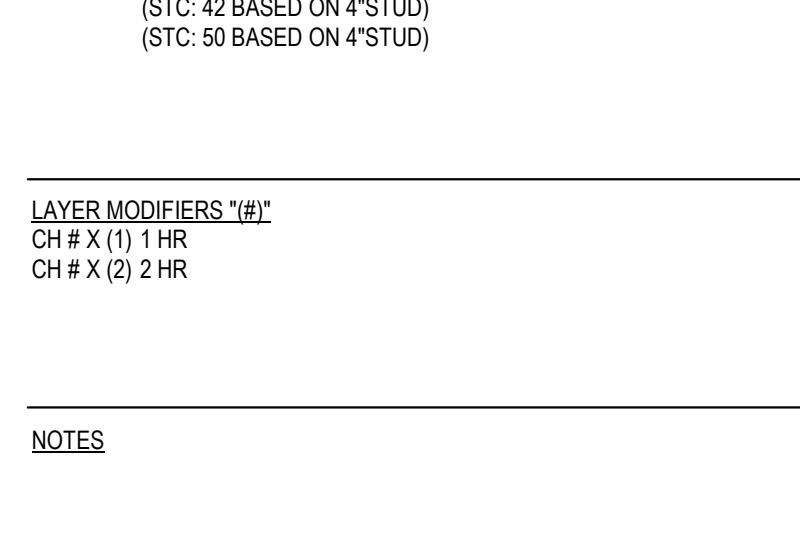
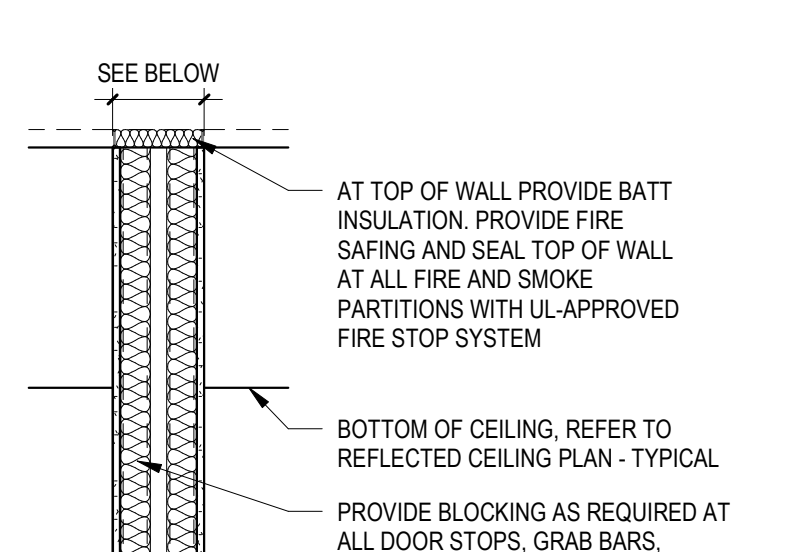
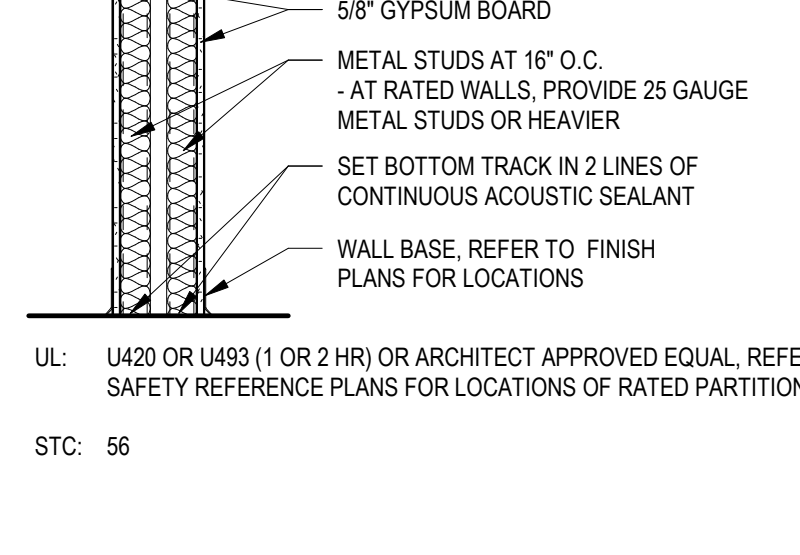
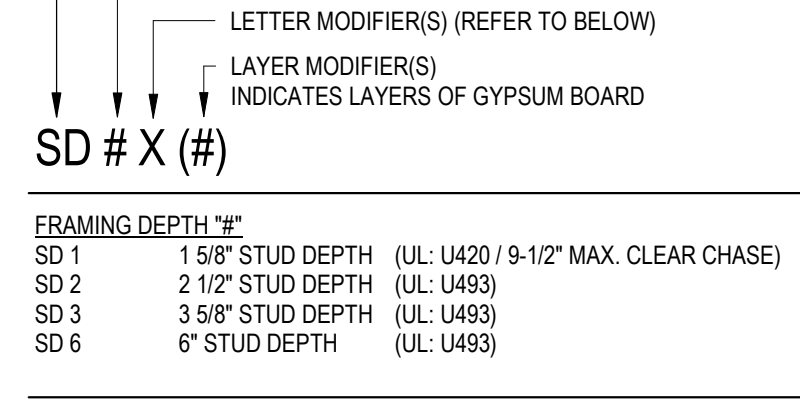
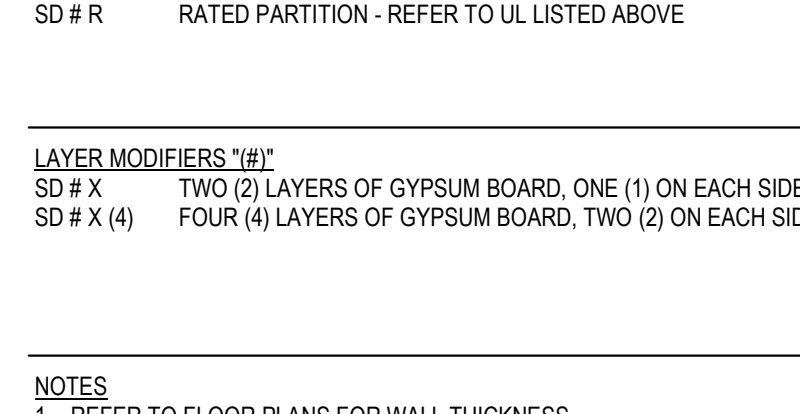
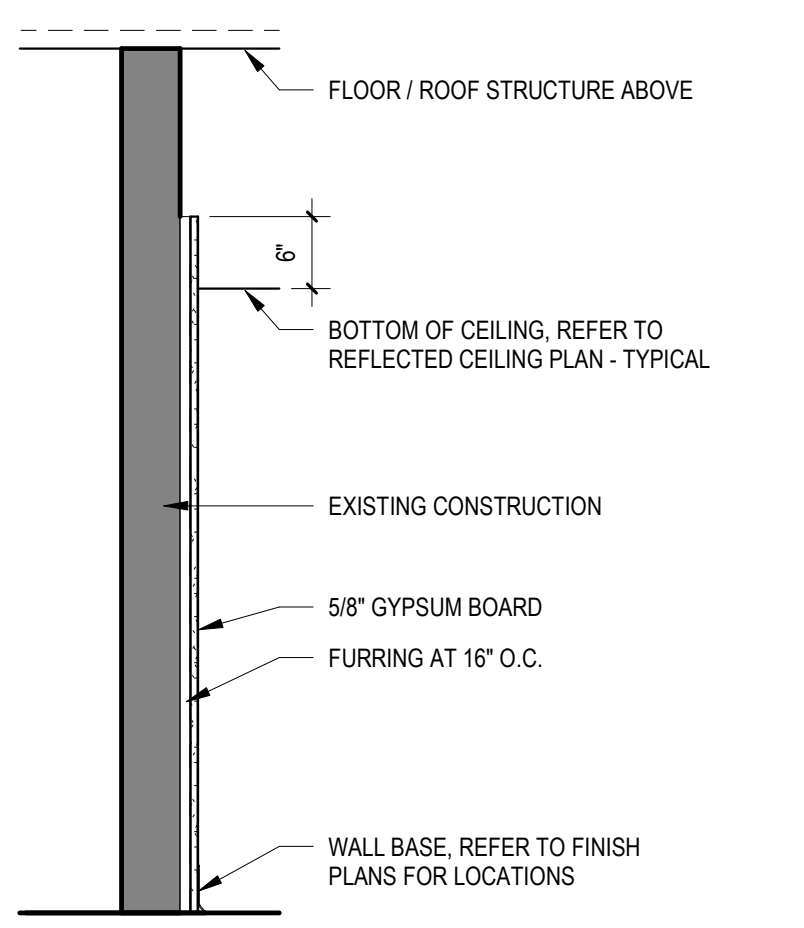
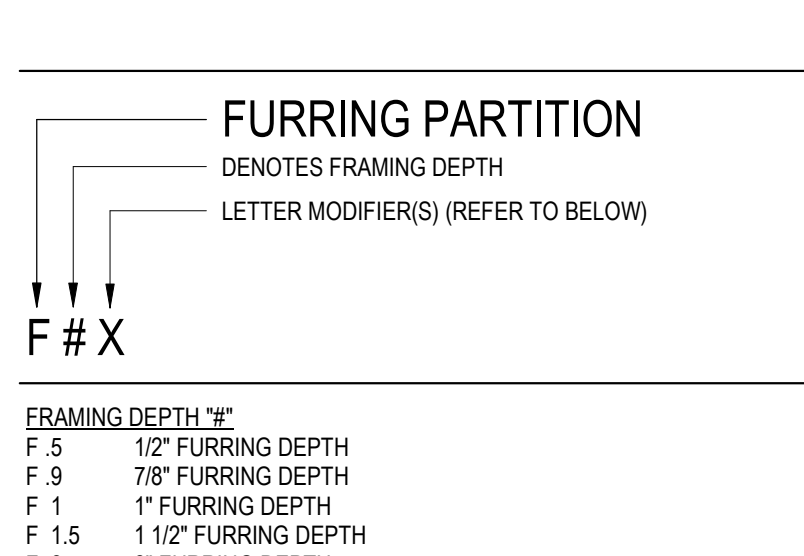
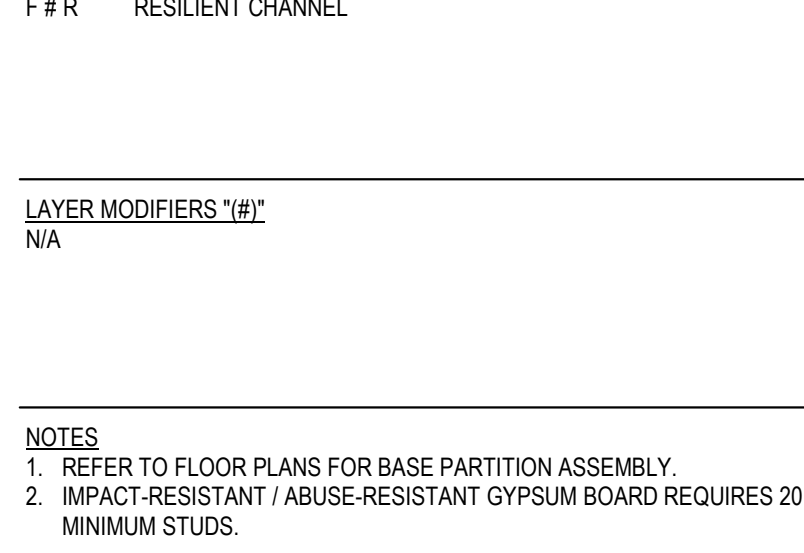
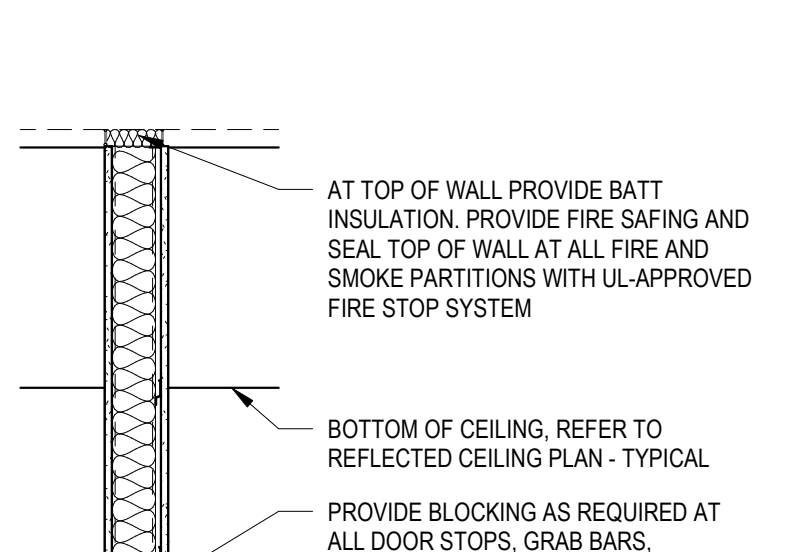
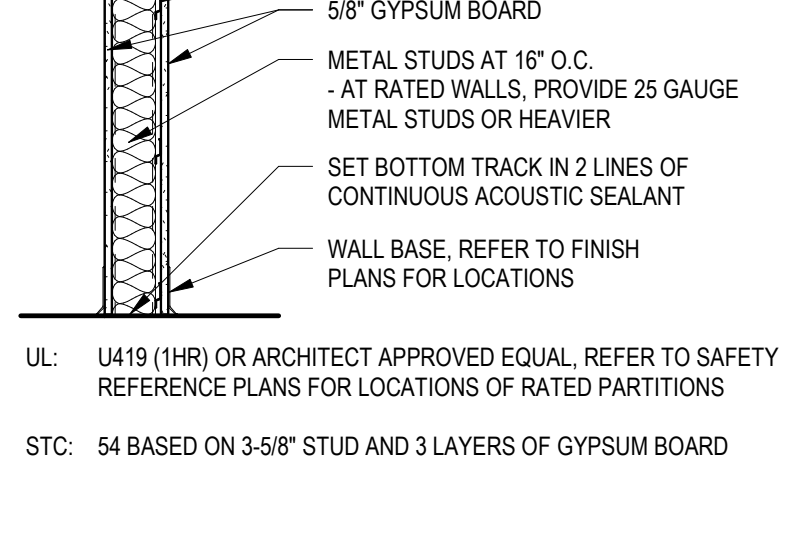
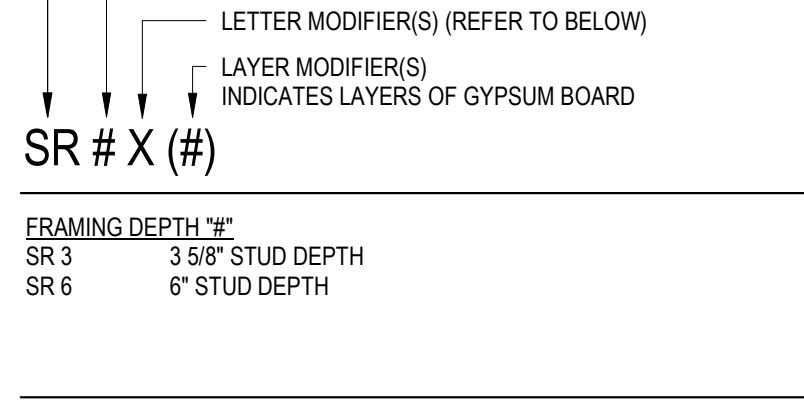
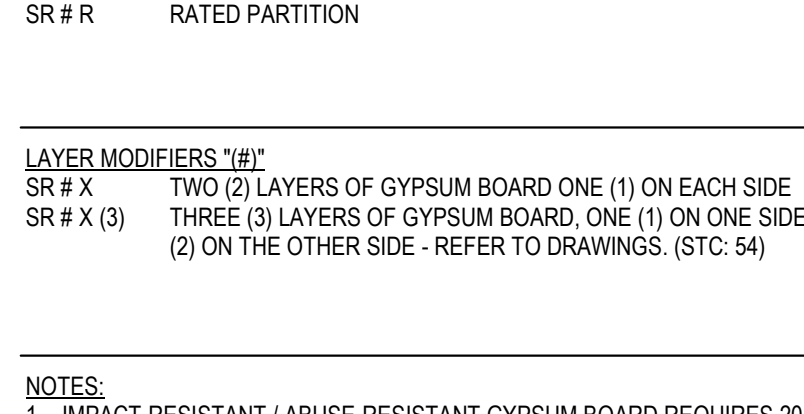
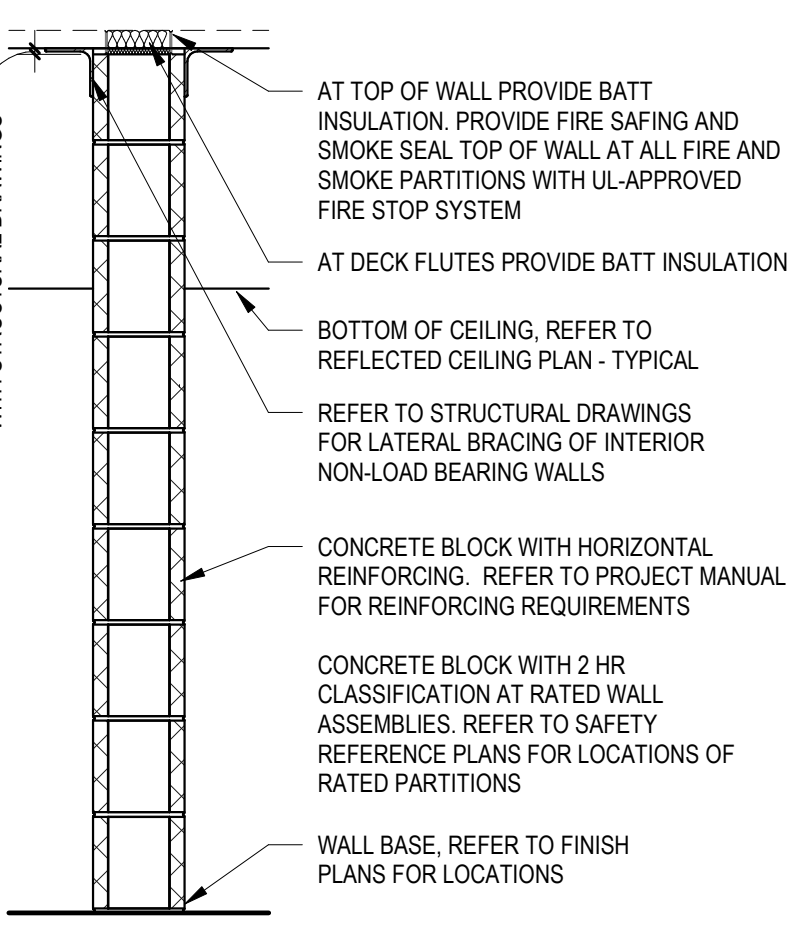
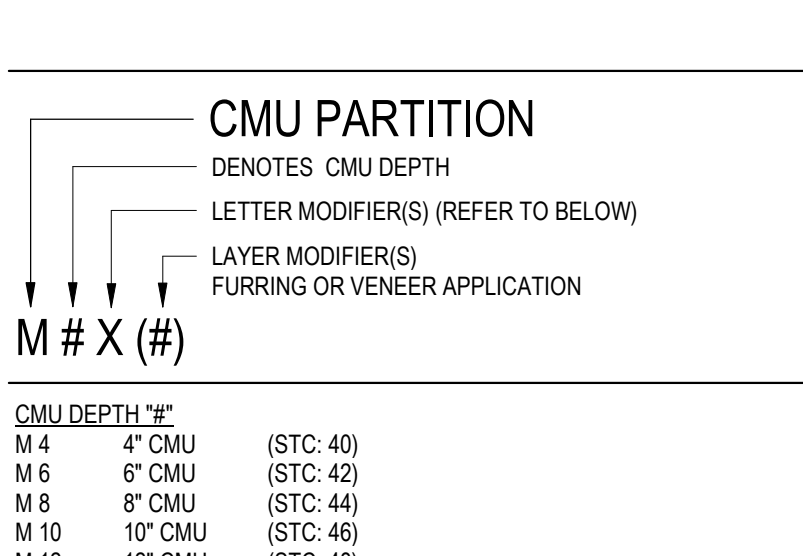
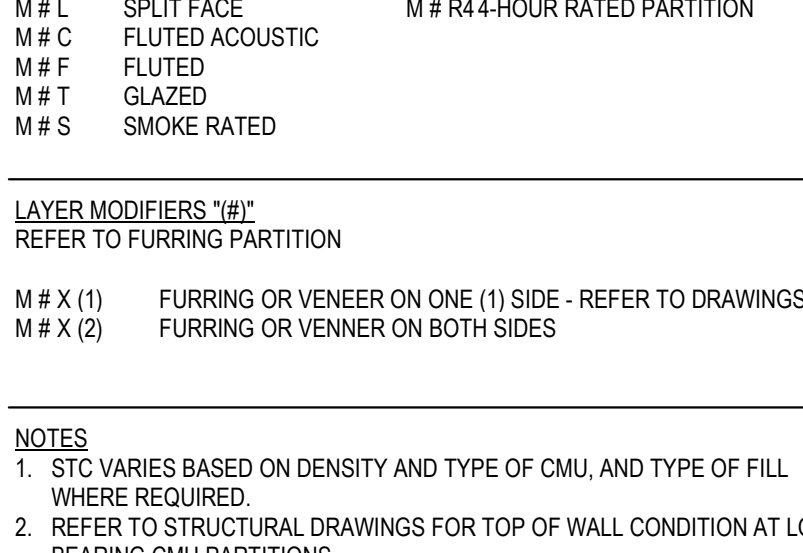
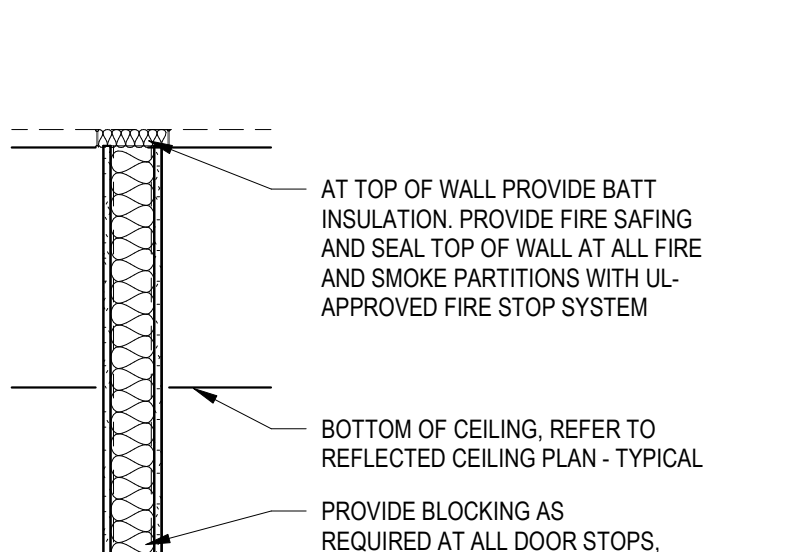
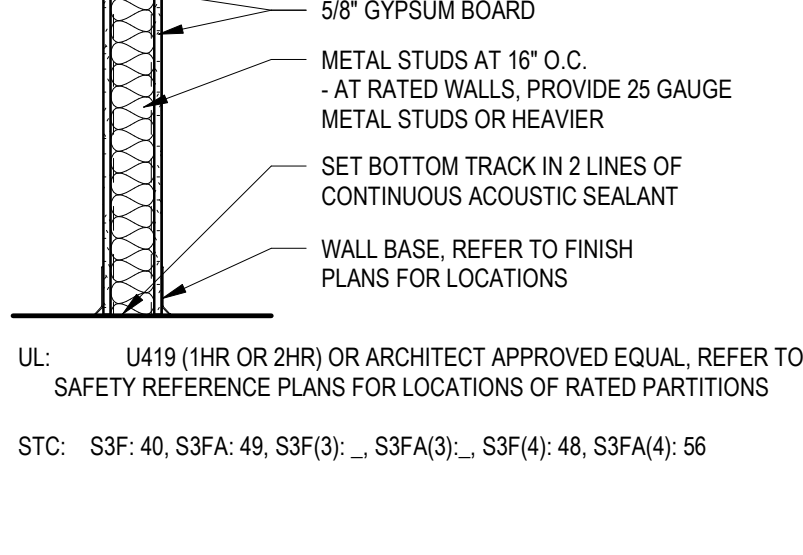
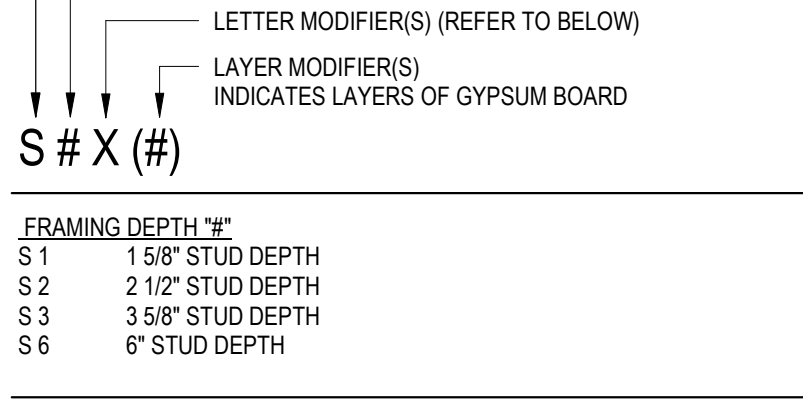
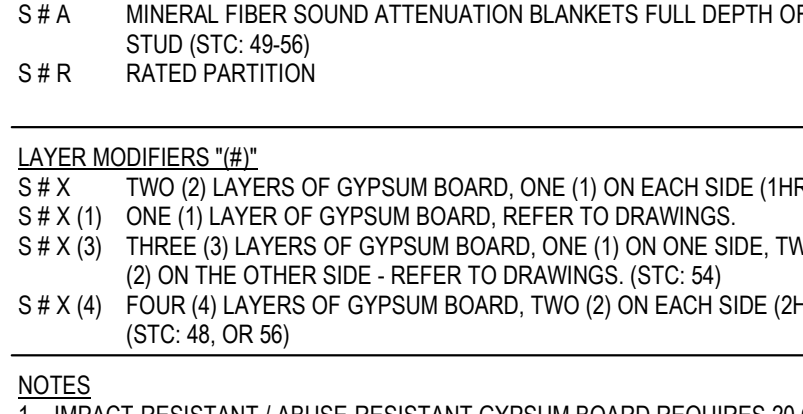
MEPFP ENGINEER

RTM Engineering

5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com12 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 C1190.
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 MANUFACTURER'S INSTRUCTIONS AND ASTM C1190.
7. TOOL SURFACE CONCAVE, UNLESS OTHERWISE INDICATED; REMOVE MASKING MATERIAL IMMEDIATELY AFTER TOOLING SEALANT SURFACE.

6 BACKER ROD & SEALANT DETAIL
1/2" = 1'-0"5 WALL CONTROL JOINT (2 HR RATING)
1 1/2" = 1'-0"4 WALL CONTROL JOINT (1 HR RATING)
1 1/2" = 1'-0"3 WALL CONTROL JOINT (1 HR) - INSULATION
1 1/2" = 1'-0"2 PARTIAL HEIGHT PARTITION PLAN DETAIL
1 1/2" = 1'-0"1 RECESSED POCKET
1 1/2" = 1'-0"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"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"6 BACKER ROD & SEALANT DETAIL
1/2" = 1'-0"5 WALL CONTROL JOINT (2 HR RATING)
1 1/2" = 1'-0"4 WALL CONTROL JOINT (1 HR RATING)
1 1/2" = 1'-0"3 WALL CONTROL JOINT (1 HR) - INSULATION
1 1/2" = 1'-0"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"12 KICKER TO METAL DECK W/ GYP BD
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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"6 BACKER ROD & SEALANT DETAIL
1/2" = 1'-0"5 WALL CONTROL JOINT (2 HR RATING)
1 1/2" = 1'-0"4 WALL CONTROL JOINT (1 HR RATING)
1 1/2" = 1'-0"3 WALL CONTROL JOINT (1 HR) - INSULATION
1 1/2" = 1'-0"2 PARTIAL HEIGHT PARTITION PLAN DETAIL
1 1/2" = 1'-0"1 RECESSED POCKET
1 1/2" = 1'-0"1 RECESSED POCKET
1 1/2" = 1'-0"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"6 BACKER ROD & SEALANT DETAIL
1/2" = 1'-0"6 BACKER ROD & SEALANT DETAIL
1/2" = 1'-0"

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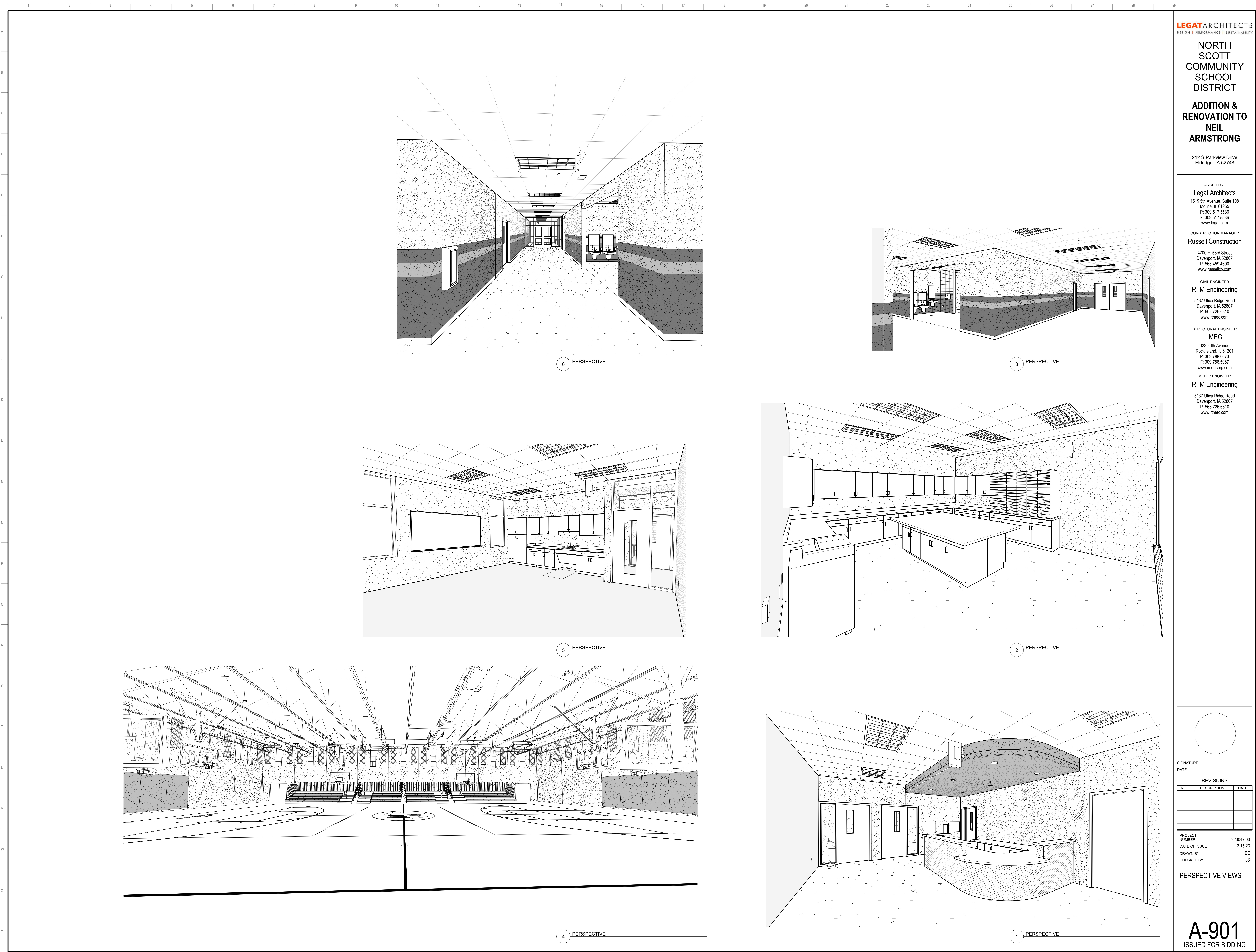
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DATE OF ISSUE 12.15.23

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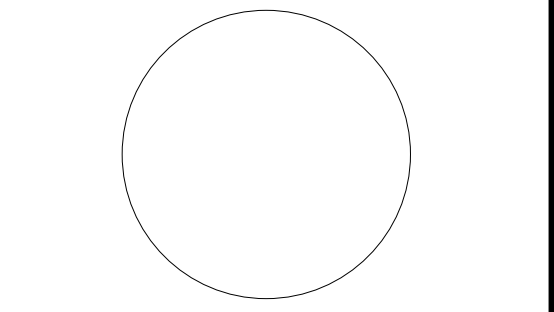
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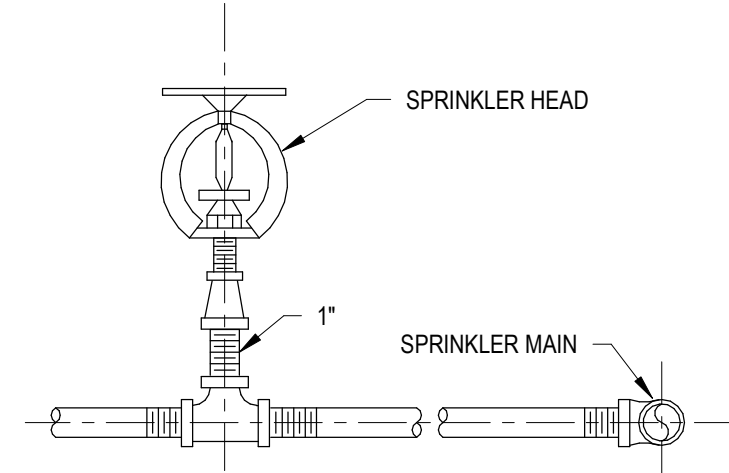


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

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





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








3 UPRIGHT SPRINKLER HEAD MOUNTING DETAIL
FP-000 SCALE: N.T.S.

- FIRE SPRINKLERS:**
- DENOTES UPRIGHT SPRINKLER
- DENOTES PENDENT SPRINKLER (NOTE "DP" ON DRAWING AND / OR SPECIFICATION WHERE DRY PENDENT SPRINKLERS ARE EMPLOYED)
- DENOTES UPRIGHT SPRINKLER ON SPRIG
- DENOTES UPRIGHT SPRINKLER ON TOP OF RISER NIPPLE
- DENOTES UPRIGHT SPRINKLER ON TOP OF RISER NIPPLE WITH SPRIG
- DENOTES PENDENT SPRINKLER ON DROP NIPPLE (NOTE "DP" ON DRAWING AND / OR SPECIFICATION WHERE DRY PENDENT SPRINKLER ARE EMPLOYED)
- DENOTES SPRINKLER WITH GUARD (UPRIGHT SPRINKLER SHOWN)
- DENOTES SIDEWALL SPRINKLER
- DENOTES OUTSIDE SPRINKLER - SPECIFY TYPE, ORIFICE SIZE; FOR EXAMPLE, OPEN SPRINKLER (WINDOW OR CORNICE)
- DENOTES OPEN SPRINKLER ON BRANCH LINE
- DENOTES OPEN SPRINKLER ON BRANCH LINE WITH SPRIG
- DENOTES WATER SPRAY NOZZLE
- DENOTES WINDOW SPRINKLERS

IDENTIFIER	TYPE
	LIGHT / ORDINARY HAZARD
	EXTRA HAZARD
	RACK STORAGE
	DRY PIPE

- ## GENERAL:
- DRAWING KEYNOTE SYMBOL
- | | | | |
|---|---------------|---|-----------------------------|
|  | DETAIL NUMBER |  | BUILDING SECTION |
|  | SHEET NUMBER |  | BUILDING ELEVATION |
|  | SHEET NUMBER |  | CALLOUT BOUNDARY |
|  | SHEET NUMBER |  | VIEW REFERENCE CALLOUT |
|  | SHEET NUMBER |  | MOUNTING HEIGHT DESIGNATION |

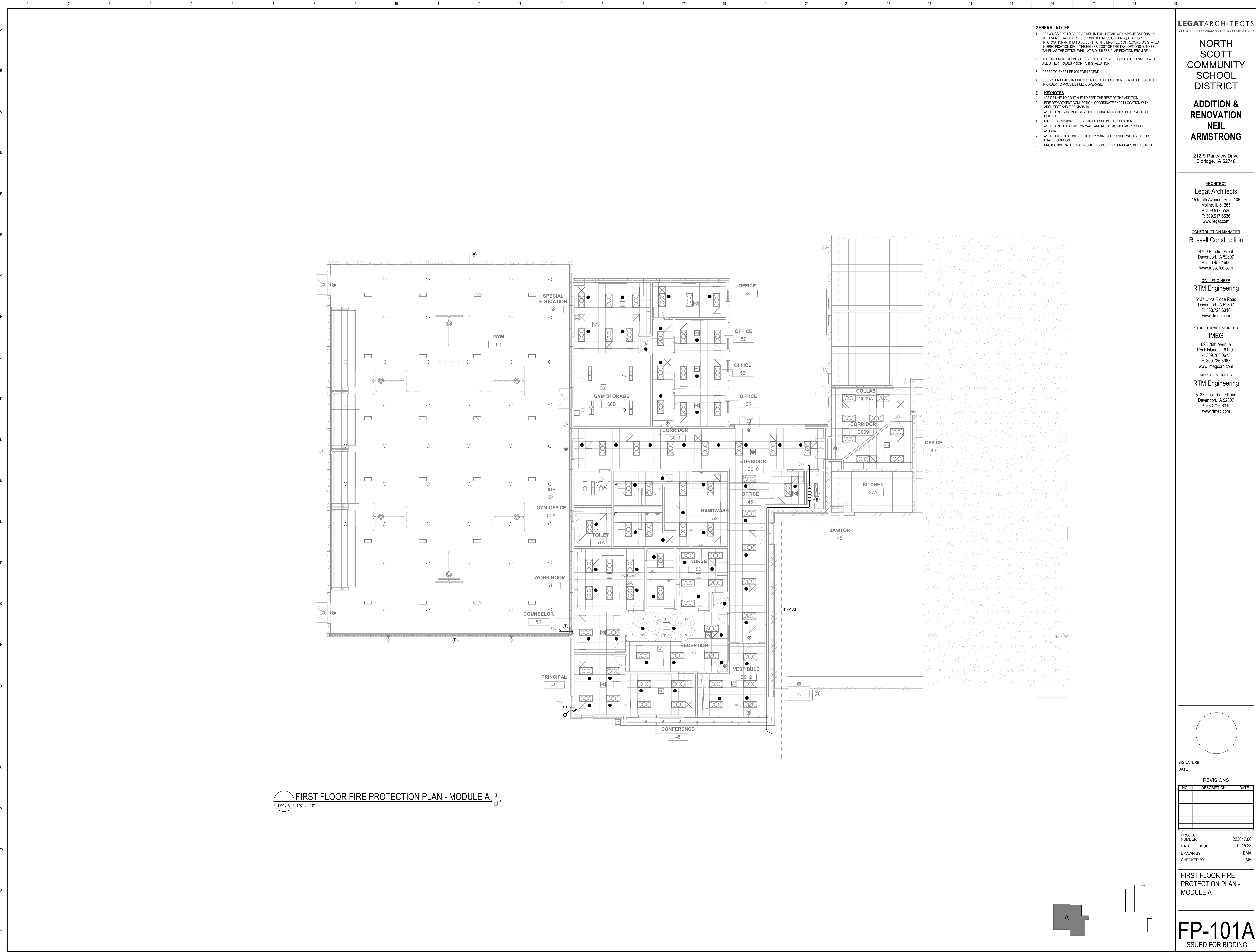
- ### **PIPING, VALVES, HANGERS, AND CONTROL DEVICES:**
- | | |
|---|--|
|  | <p>DENOTES SPRINKLER PIPING AND BRANCHLINE (INDICATE PIPE SIZE)</p> |
|  | <p>DENOTES ANGLE HOSE VALVE - INDICATE SIZE, TYPE, THREADS, AND OTHER REQUIRED DATA</p> |
|  | <p>DENOTES CHECK VALVE (GENERAL)</p> |
|  | <p>DENOTES ALARM CHECK VALVE (SPECIFY SIZE, DIRECTION OF FLOW)</p> |
|  | <p>DENOTES DRY PIPE VALVE WITH QUICK OPENING DEVICE (ACCELERATOR OR EXHAUSTER - SPECIFY SIZE AND TYPE)</p> |
|  | <p>DENOTES DRY PIPE VALVE (SPECIFY SIZE)</p> |
|  | <p>DENOTES DELUGE VALVE (SPECIFY SIZE AND TYPE)</p> |
|  | <p>DENOTES PREACTION VALVE (SPECIFY SIZE AND TYPE)</p> |

1. SPRINKLER SYSTEM TO BE DESIGNED BY SPRINKLER CONTRACTOR. DRAWING INDICATED SCHEMATIC LAYOUT OF DESIGN INTENT OF SPRINKLER HEAD LAYOUT. HEADS INDICATED ON PLAN REPRESENT RECOMMENDED LOCATIONS. CONTRACTOR TO VERIFY QUANTITY AND LOCATION OF HEADS AS PART OF DESIGN BUILD CONTRACT.

2. ALL FIRE PROTECTION WORK TO BE EXECUTED IN STRICT CONFORMANCE WITH NFPA 3 AND LOCAL CODES AND AMENDMENTS THEREOF. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER/ARCHITECT.
3. COORDINATE LOCATIONS OF ALL RISERS, COORDINATE INSTALLATION OF ALL FIRE PROTECTION WORK, WITH OTHER TRADES. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING OF WORK.
4. SPRINKLER SYSTEM DESIGN SHALL BE BASED ON 0.10 GPM FOR THE MOST REMOTE 1500 SQUARE FEET. THIS IS BASED ON A LIGHT HAZARD CLASSIFICATION.
5. CONTRACTOR TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL FIRE PROTECTION WORK.
6. SPRINKLER HEADS SHALL BE PLACED IN CENTER OF TILES WHERE SUSPENDING CEMENT EXIST.
7. COORDINATION WITH ALL OTHER TRADES IS A MUST PRIOR TO ANY INSTALLATION. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR COORDINATION. DRAWINGS AVAILABLE.
8. CONTRACTOR TO OBTAIN NECESSARY SIZE OF INSTALLING SERVICE AND COORDINATE SIZE WITH GENERAL AND FLUE PLUMBING.
9. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ANY INSPECTIONS, PERMITS, REQUIRED PRIOR TO INSTALLATION.
10. PROVIDE SPARE SPRINKLER HEADS IN CABINET AT ALUMINUM
11. DRAWING ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THERE IS CROSS DIRECTION OR CONFLICT OF ANY KIND, THE CONTRACTOR SHALL REFER TO THE ENGINEER OF RECORD, AS STATED IN SPECIFICATION DIV 1. THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE BASIS OF THE COST OF THE WORK.

PROJECT NUMBER	223047.00
DATE OF ISSUE	12.15.23
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- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DISCREPANCY, 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 WILL AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL FIRE PROTECTION SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET FP-100 FOR LEGEND.
 - SPRINKLER HEADS IN CEILING GRIDS TO BE POSITIONED IN MIDDLE OF TILE IN ORDER TO PROVIDE FULL COVERAGE.
- KEYNOTES**
- 4" FIRE LINE TO CONTINUE TO FEED THE REST OF THE ADDITION.
 - FIRE DEPARTMENT CONNECTION, COORDINATE EXACT LOCATION WITH ARCHITECT AND FIRE MARSHAL.
 - 4" FIRE LINE CONTINUE BACK TO BUILDING MAIN LOCATED FIRST FLOOR CEILING.
 - HIGH HEAT SPRINKLER HEAD TO BE USED IN THIS LOCATION.
 - 4" FIRE LINE TO GO UP GYM WALL AND ROUTE AS HIGH AS POSSIBLE.
 - 4" DCA.
 - 4" FIRE MAIN TO CONTINUE TO CITY MAIN. COORDINATE WITH CIVIL FOR EXACT LOCATION.
 - PROTECTIVE CAGE TO BE INSTALLED ON SPRINKLER HEADS IN THIS AREA.

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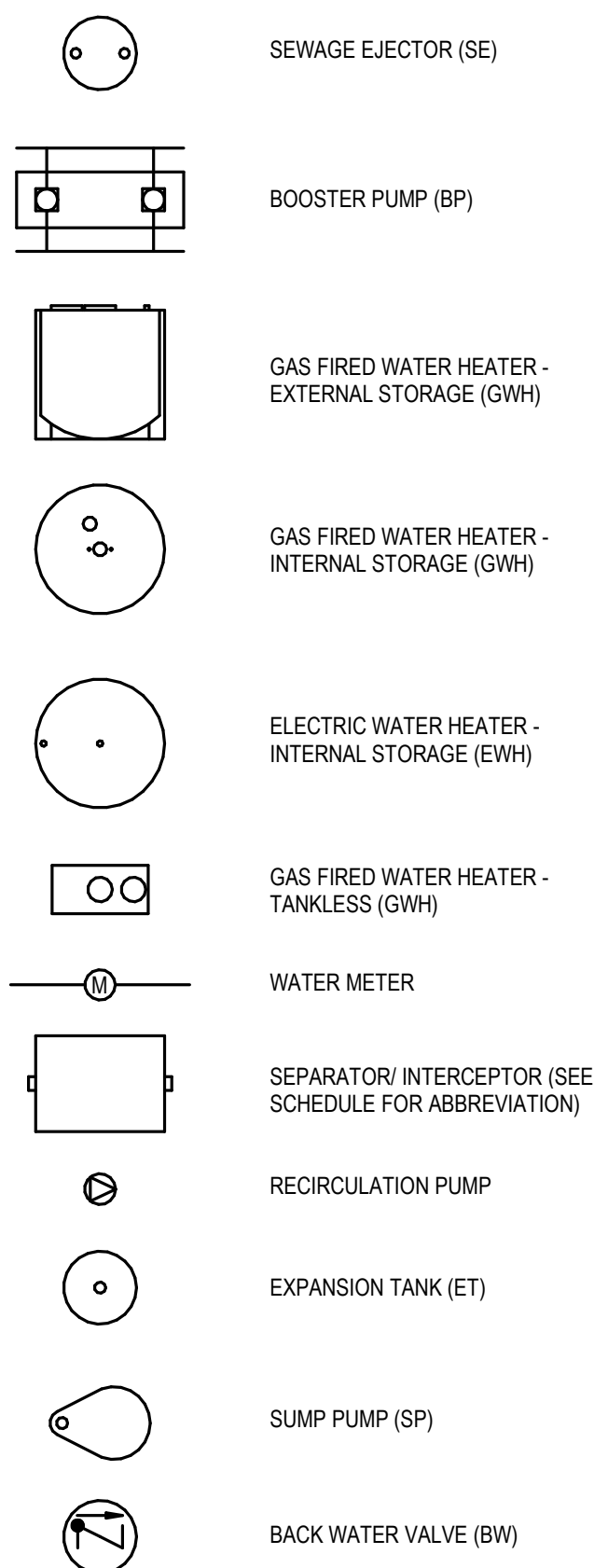
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**FIRST FLOOR FIRE
PROTECTION PLAN -
MODULE A**

FP-101A
ISSUED FOR BIDDING

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
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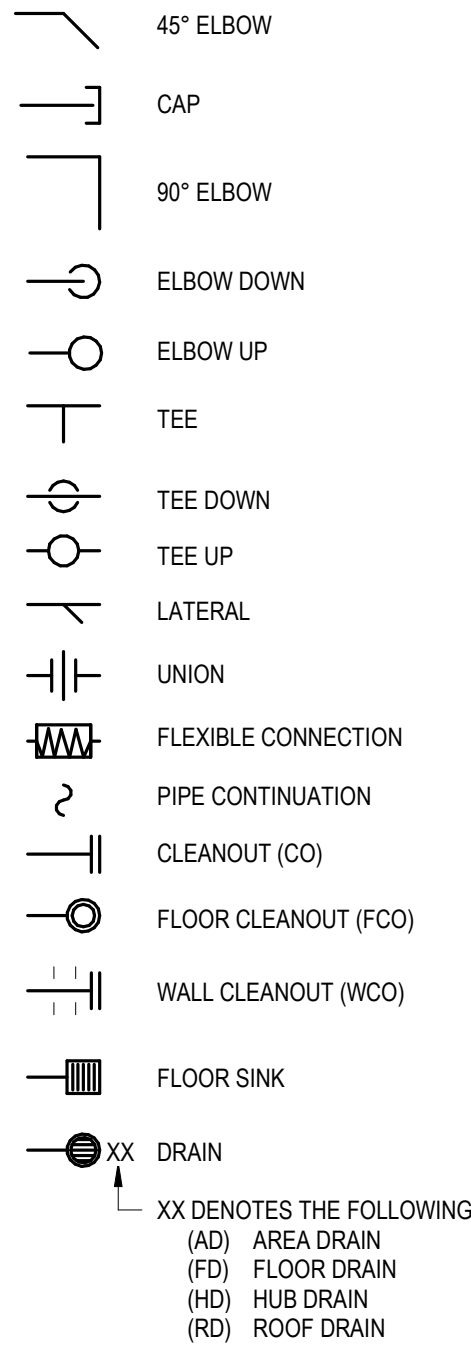
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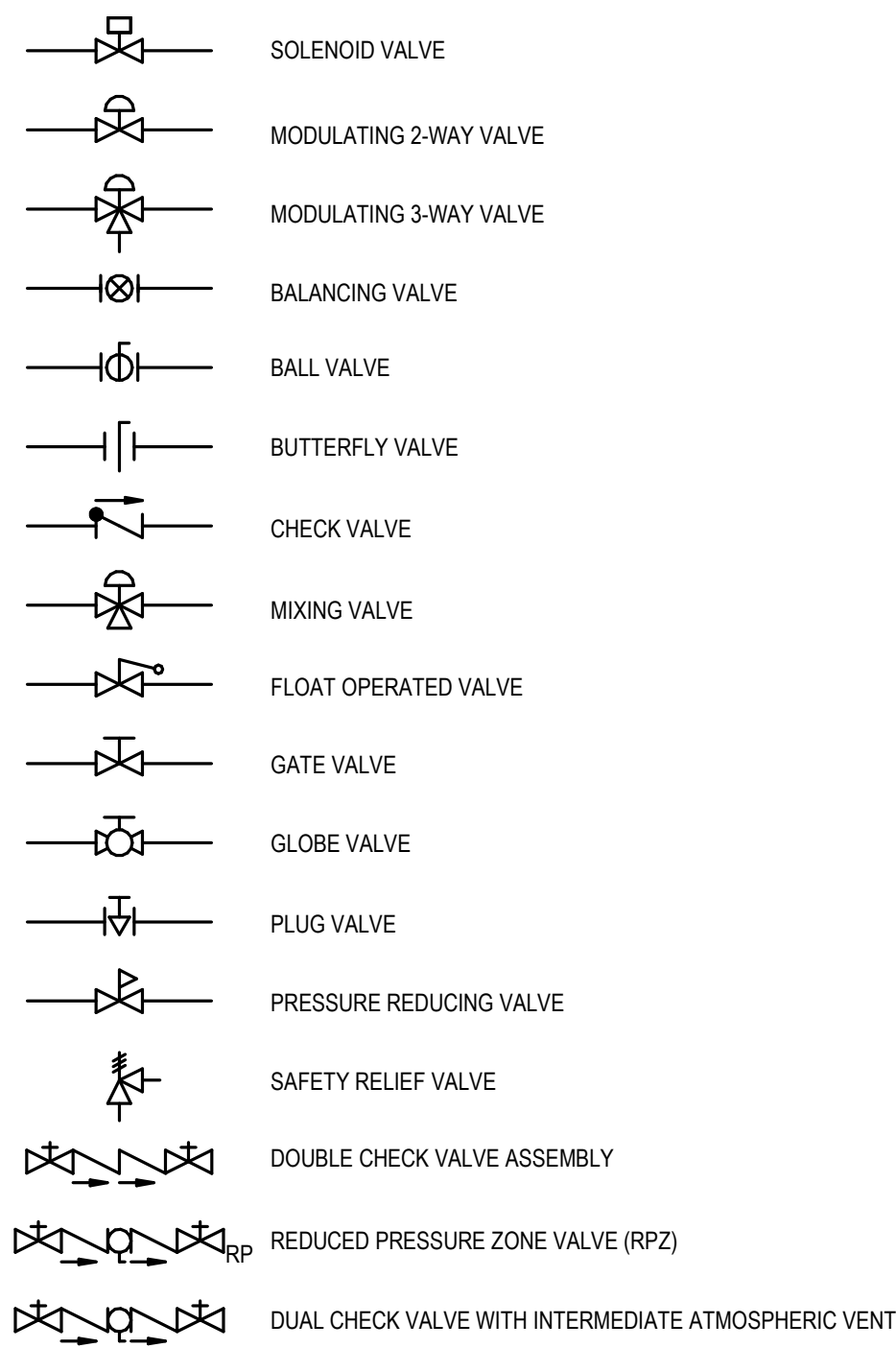
GENERAL NOTES:

- THE FOLLOWING NOTES APPLY TO THE FULL SET OF PLUMBING DRAWINGS AND SPECIFICATIONS INCLUDING ADDENDA, CHANGE ORDERS, BULLETINS AND ARCHITECTURAL SUPPLEMENTARY INSTRUCTIONS.
- 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.
- FOR ADDITIONAL DETAILS, CONSULT THE ARCHITECTURAL DRAWINGS, OTHER ENGINEERING DRAWINGS, OWNER FURNISHED DRAWINGS AND OTHER OWNER FURNISHED DOCUMENTATION.
- 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.
- 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.
- 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.
- PROVIDE HOLES, SLEEVES, FIRE STOPPING AND PATCHING FOR THE INSTALLATION OF THE PLUMBING WORK.
- 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 ASTM E84 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 10 DEGREE HOT WATER IN ORDER TO ENSURE SCALDING WILL NOT OCCUR.
- 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 FITTINGS:



PLUMBING VALVES:



PLUMBING INSULATION NOTES:

DOMESTIC COLD WATER ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION, 1/2" THICK, WITH VAPOR BARRIER JACKET.

DOMESTIC HOT WATER ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION, 1" THICK, WITH GLASS CLOTH JACKET.

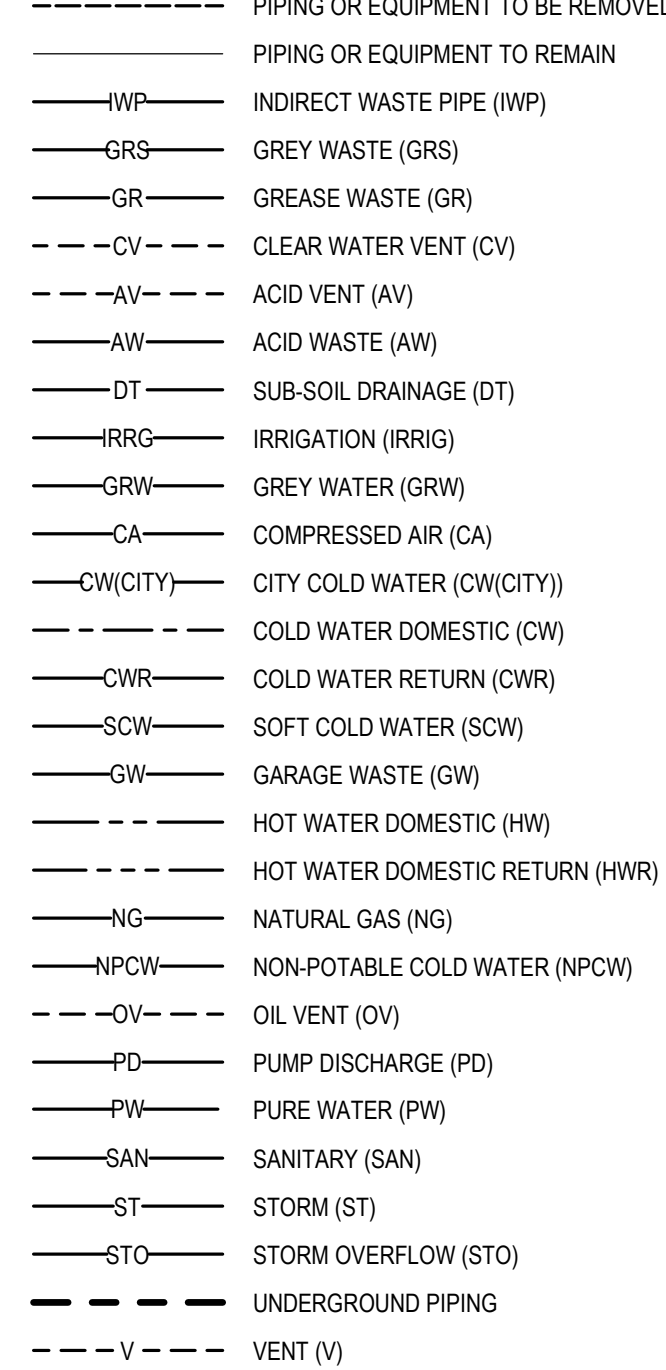
AT CONTRACTOR'S OPTION FIBERGLASS SNAP ON INSULATION WITH FOAM VAPOR BARRIER MAY BE SUBSTITUTED FOR ABOVE.

PIPING TO BE INSULATED ACCORDING TO 2009 INTERNATIONAL ENERGY CONSERVATION CODE. ANY NEW WATER PIPING SHALL BE INSULATED TO A MINIMUM OF R-3.

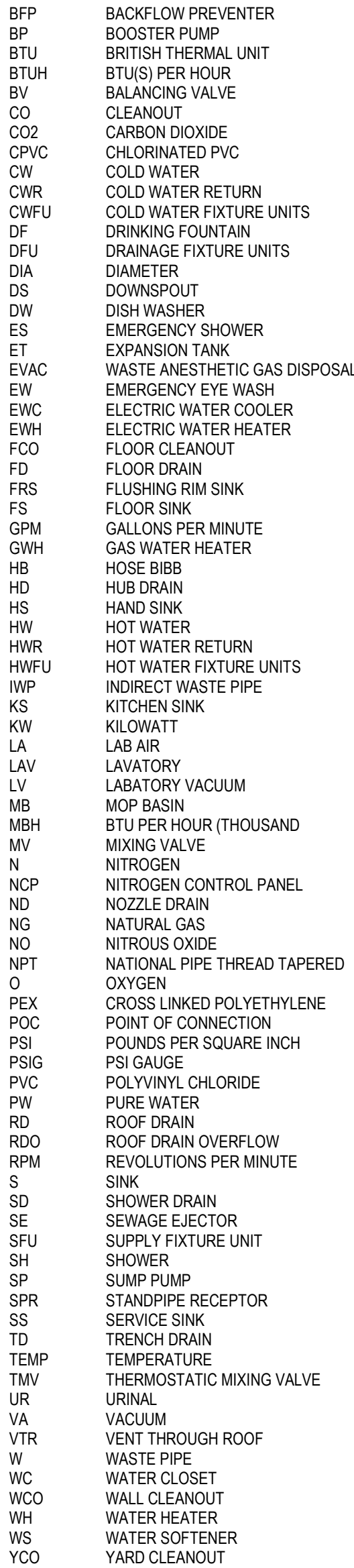
RENOVATION LEGEND:

- <X> EXISTING TO REMAIN
- <R> EXISTING TO BE RELOCATED
- <D> EXISTING TO BE REMOVED
- <N> EXISTING IN NEW LOCATION
- <N> NEW

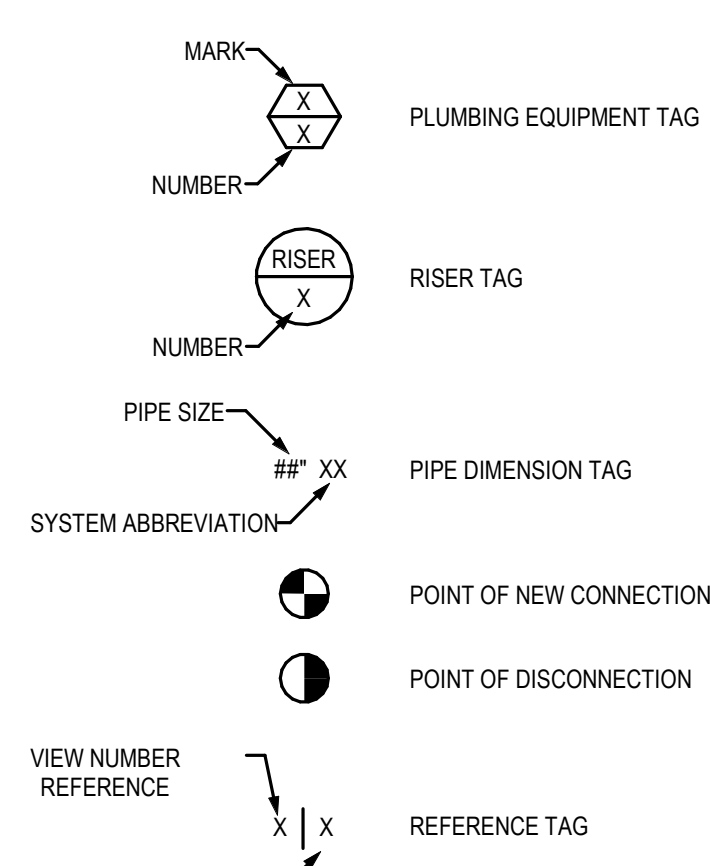
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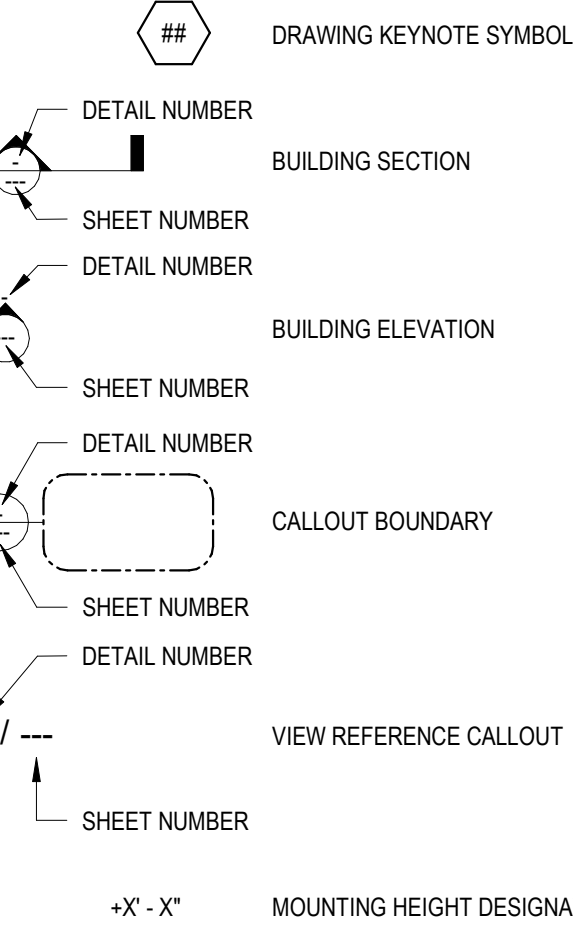
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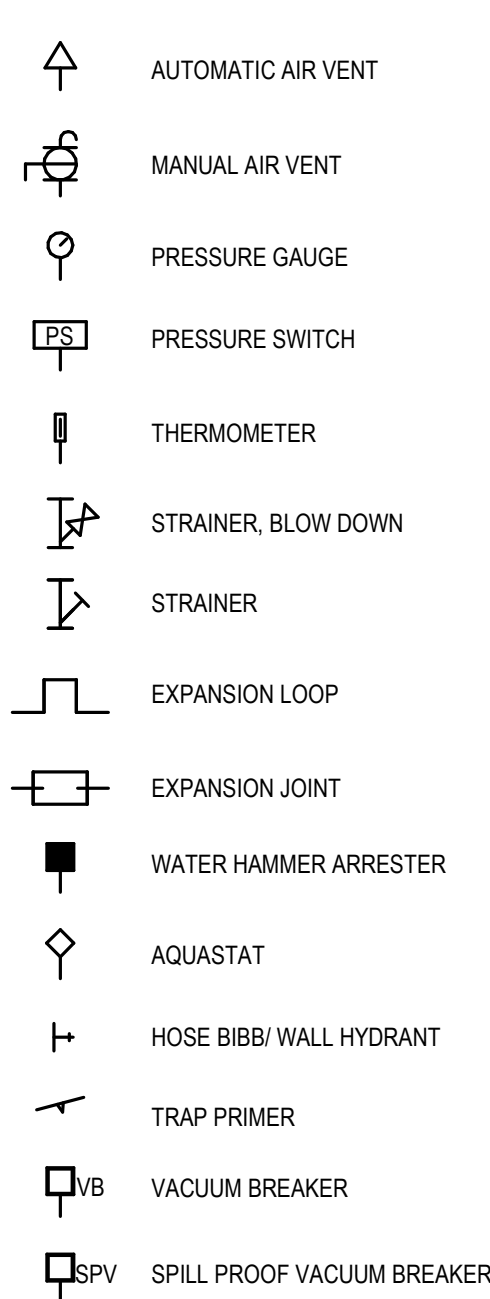
PLUMBING TAGS:



GENERAL:



PLUMBING SPECIALTIES:



PIPE MATERIAL SCHEDULE			
APPLICATION	LOCATION	SIZE	MATERIAL
SANITARY WASTE/VENT	BELOW GRADE	ALL	SCHEDULE 40 ABS
	ABOVE GRADE	ALL	SCHEDULE 40 ABS
TAP RELIEF	BELOW GRADE	ALL	COPPER (TYPE M)
	ABOVE GRADE	ALL	COPPER (TYPE L OR K)
DOMESTIC WATER IN OR WITHIN 5' OF BUILDING	BELOW GRADE	ALL	COPPER (TYPE M)
	ABOVE GRADE	ALL	COPPER (TYPE L OR K)
CONDENSATE	BELOW GRADE	ALL	SCHEDULE 40 ABS
	ABOVE GRADE	ALL	SCHEDULE 40 ABS

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 THIS 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.

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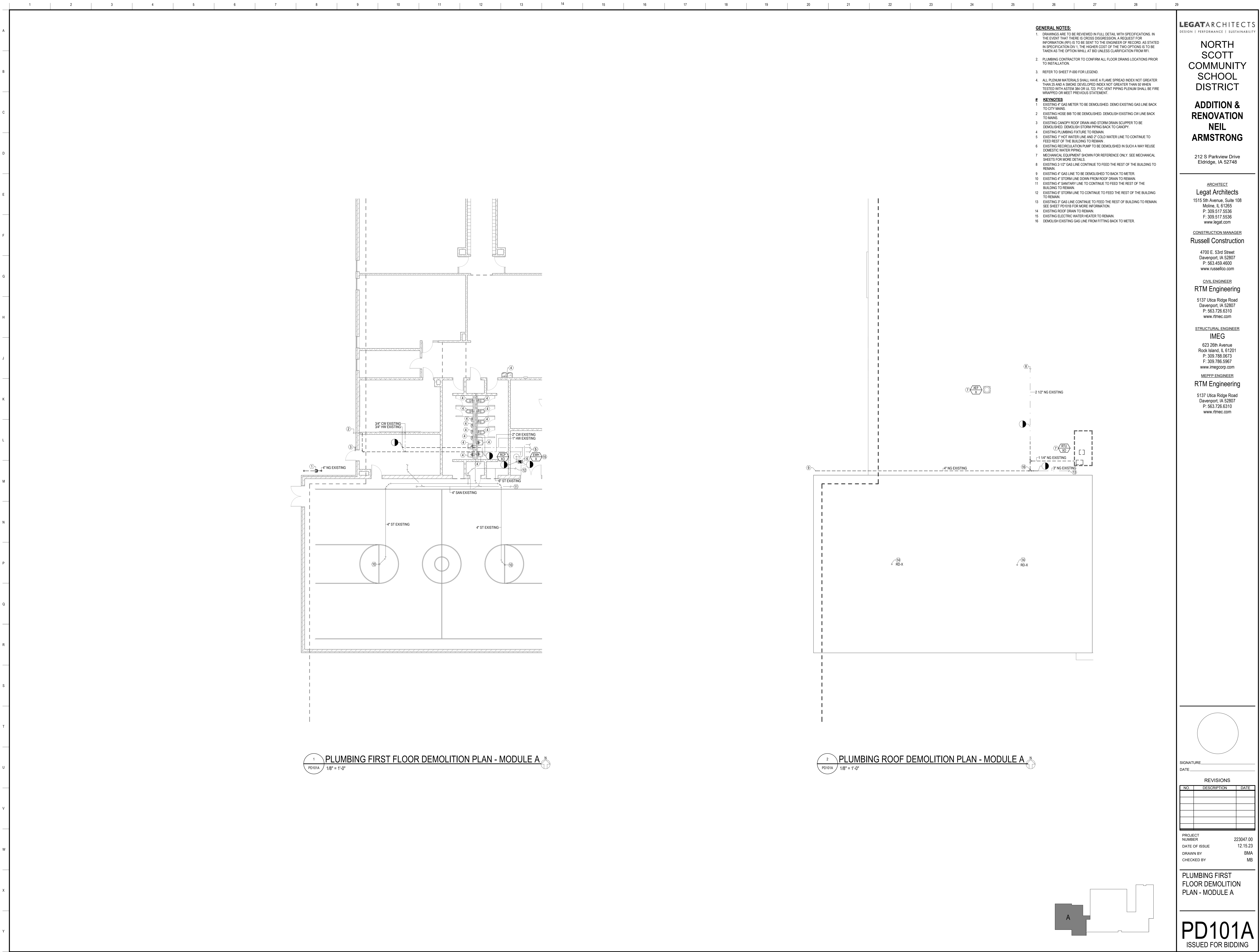
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PLUMBING LEGEND



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- PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
- REFER TO SHEET P-000 FOR LEGEND.
- 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 ASTM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.

KEYNOTES

- EXISTING 4" GAS METER TO BE DEMOLISHED. DEMO EXISTING GAS LINE BACK TO CITY MAINS.
- EXISTING HOSE BIB TO BE DEMOLISHED. DEMOLISH EXISTING CW LINE BACK TO MAINS.
- EXISTING CANOPY ROOF DRAIN AND STORM DRAIN SCUPPERS TO BE DEMOLISHED. DEMOLISH STORM PIPING BACK TO CANOPY.
- EXISTING PLUMBING FIXTURE TO REMAIN.
- EXISTING 1" HOT WATER LINE AND 2" COLD WATER LINE TO CONTINUE TO FEED REST OF THE BUILDING TO REMAIN.
- EXISTING RECIRCULATION PUMP TO BE DEMOLISHED IN SUCH A WAY REUSE DOMESTIC WATER PIPING.
- MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE DETAILS.
- EXISTING 3/4" GAS LINE CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
- EXISTING 4" GAS LINE TO BE DEMOLISHED TO BACK TO METER.
- EXISTING 4" STORM LINE DOWN FROM ROOF DRAIN TO REMAIN.
- EXISTING 4" SANITARY LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
- EXISTING 6" STORM LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
- EXISTING 3" GAS LINE CONTINUE TO FEED THE REST OF BUILDING TO REMAIN. SEE SHEET PD010B FOR MORE INFORMATION.
- EXISTING ROOF DRAIN TO REMAIN.
- EXISTING ELECTRIC WATER HEATER TO REMAIN.
- DEMOLISH EXISTING GAS LINE FROM FITTING BACK TO METER.

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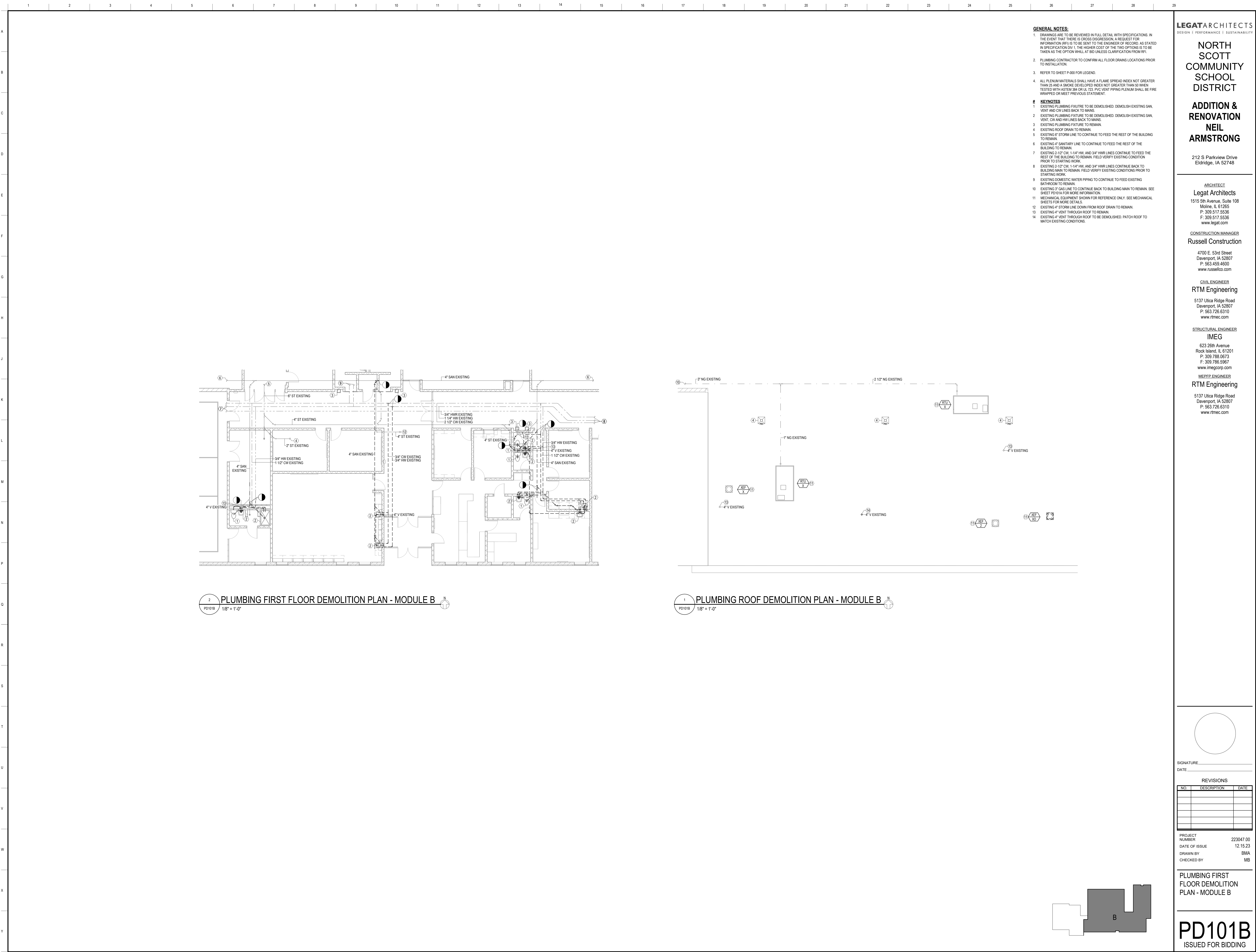
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PROJECT NUMBER: 223047.00
DATE OF ISSUE: 12.15.23
DRAWN BY: BMA
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PLUMBING FIRST FLOOR DEMOLITION PLAN - MODULE A

PD101A
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- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DISCREPANCY, 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 WHIL AT BID UNLESS CLARIFICATION FROM RFI.
 - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
 - REFER TO SHEET P-000 FOR LEGEND.
 - 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 ASTM E 84 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- # KEYNOTES**
- EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. DEMOLISH EXISTING SAN, VENT AND CW LINES BACK TO MAINS.
 - EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. DEMOLISH EXISTING SAN, VENT, CW AND HW LINES BACK TO MAINS.
 - EXISTING PLUMBING FIXTURE TO REMAIN.
 - EXISTING ROOF DRAIN TO REMAIN.
 - EXISTING 6" STORM LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
 - EXISTING 4" SANITARY LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
 - EXISTING 2-1/2" CW, 1-1/4" HW AND 3/4" HW LINES CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN. FIELD VERIFY EXISTING CONDITION PRIOR TO STARTING WORK.
 - EXISTING 2-1/2" CW, 1-1/4" HW AND 3/4" HW LINES CONTINUE BACK TO BUILDING MAIN TO REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
 - EXISTING DOMESTIC WATER PIPING TO CONTINUE TO FEED EXISTING BATHROOM TO REMAIN.
 - EXISTING 3" GAS LINE TO CONTINUE BACK TO BUILDING MAIN TO REMAIN. SEE SHEET PD101A FOR MORE INFORMATION.
 - MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE DETAILS.
 - EXISTING 4" STORM LINE DOWN FROM ROOF DRAIN TO REMAIN.
 - EXISTING 4" VENT THROUGH ROOF TO REMAIN.
 - EXISTING 4" VENT THROUGH ROOF TO BE DEMOLISHED. PATCH ROOF TO MATCH EXISTING CONDITIONS.

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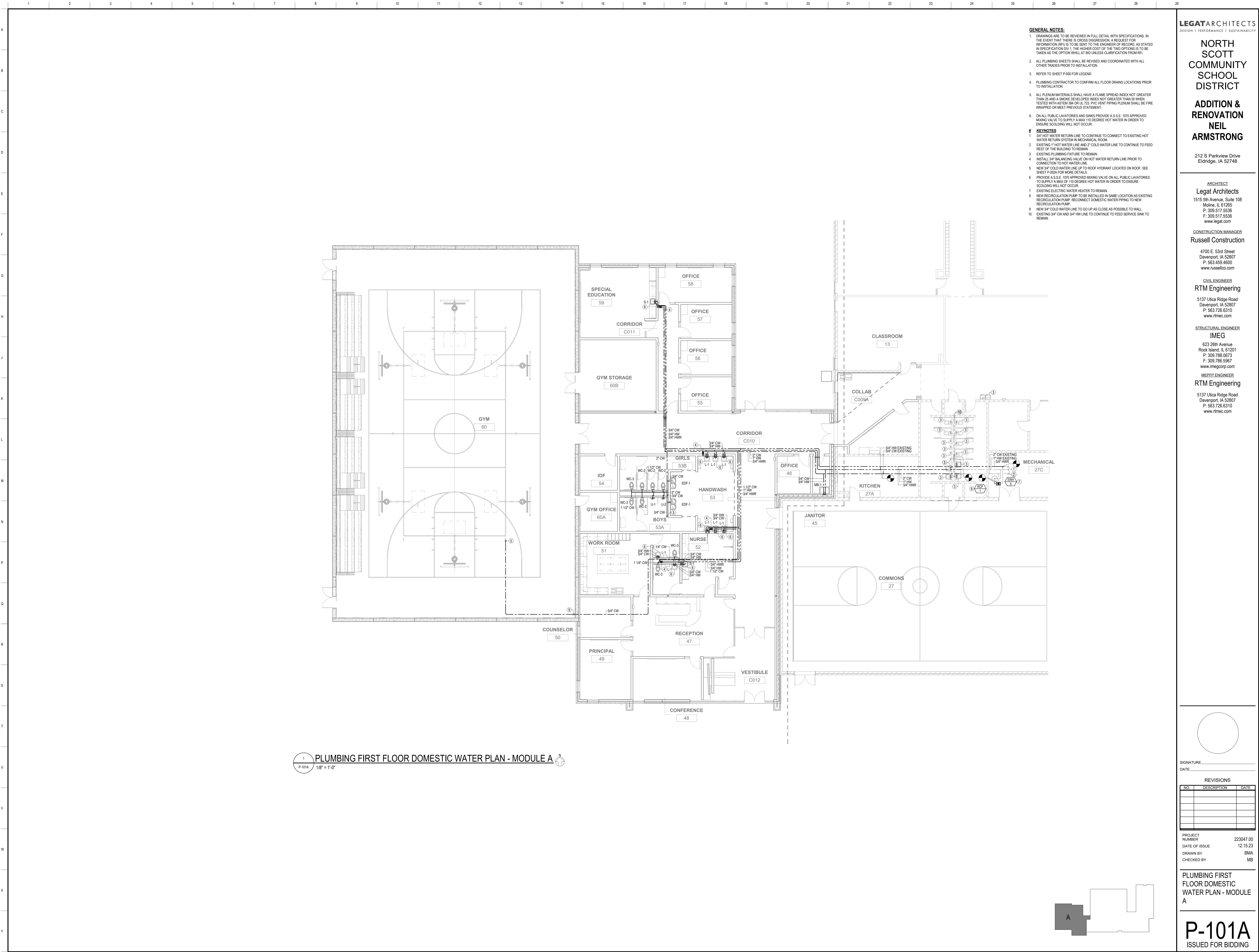
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PLUMBING FIRST
FLOOR DEMOLITION
PLAN - MODULE B

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- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS REGRESSION, 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 UNLESS CLARIFICATION FROM ME.
 - ALL PLUMBING SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET P-000 FOR LEGEND.
 - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
 - ALL PL ENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
 - 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**
- 3/4" HOT WATER RETURN LINE TO CONTINUE TO CONNECT TO EXISTING HOT WATER RETURN SYSTEM IN MECHANICAL ROOM.
 - EXISTING 1" HOT WATER LINE AND 2" COLD WATER LINE TO CONTINUE TO REST OF THE BUILDING TO REMAIN.
 - EXISTING PLUMBING FIXTURE TO REMAIN.
 - INSTALL 3/4" BALANCING VALVE ON HOT WATER RETURN LINE PRIOR TO CONNECTION TO HOT WATER LINE.
 - NEW 3/4" COLD WATER LINE UP TO ROOF HYDRANT LOCATED ON ROOF. SEE SHEET P-000 FOR MORE DETAILS.
 - PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE ON ALL PUBLIC LAVATORIES TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
 - EXISTING ELECTRIC WATER HEATER TO REMAIN.
 - NEW RECIRCULATION PUMP TO BE INSTALLED IN SAME LOCATION AS EXISTING RECIRCULATION PUMP. RECONNECT DOMESTIC WATER PIPING TO NEW RECIRCULATION PUMP.
 - NEW 3/4" COLD WATER LINE TO GO UP AS CLOSE AS POSSIBLE TO WALL.
 - EXISTING 3/4" CW AND 3/4" HW LINE TO CONTINUE TO FEED SERVICE SINK TO REMAIN.

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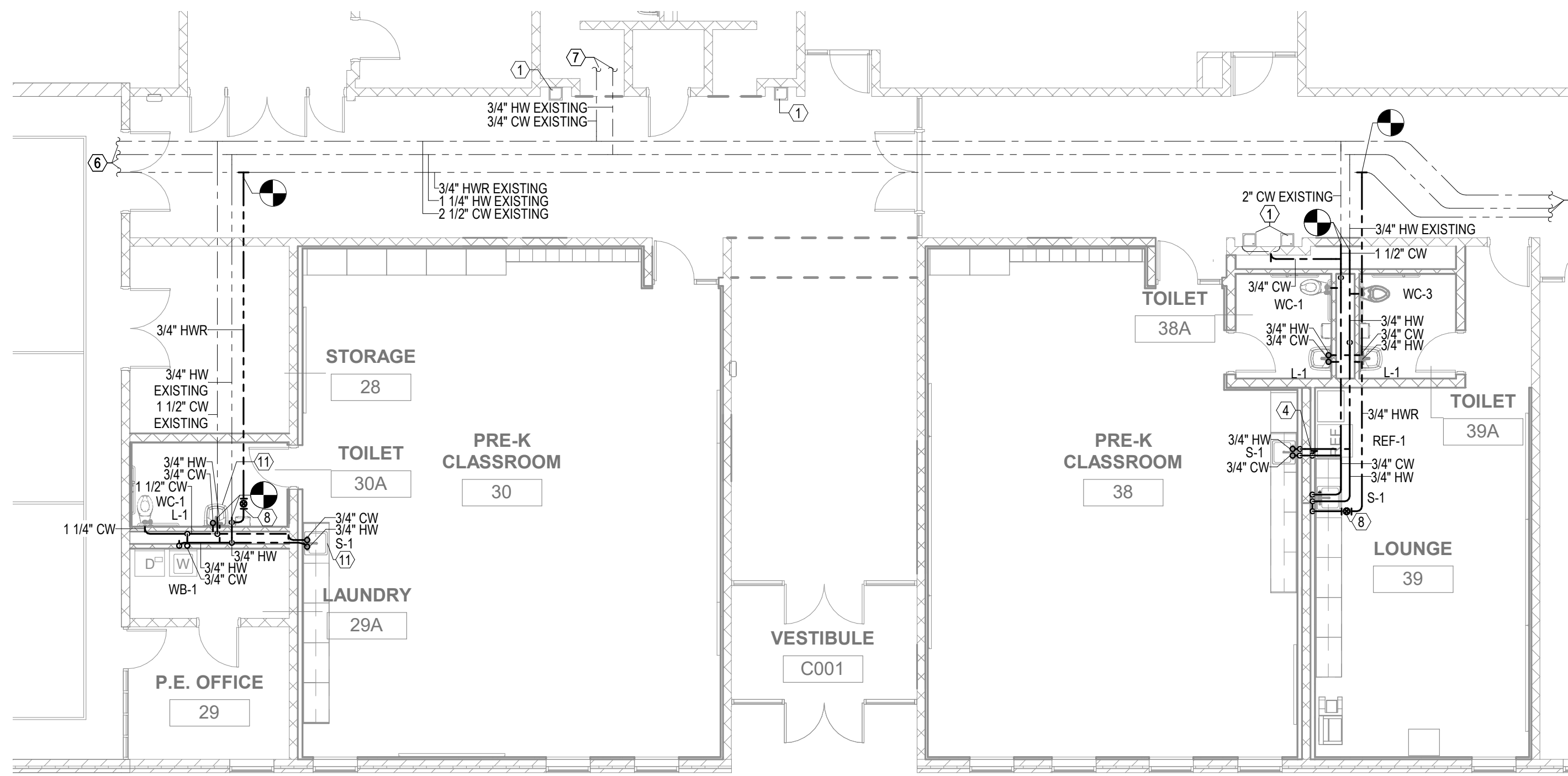
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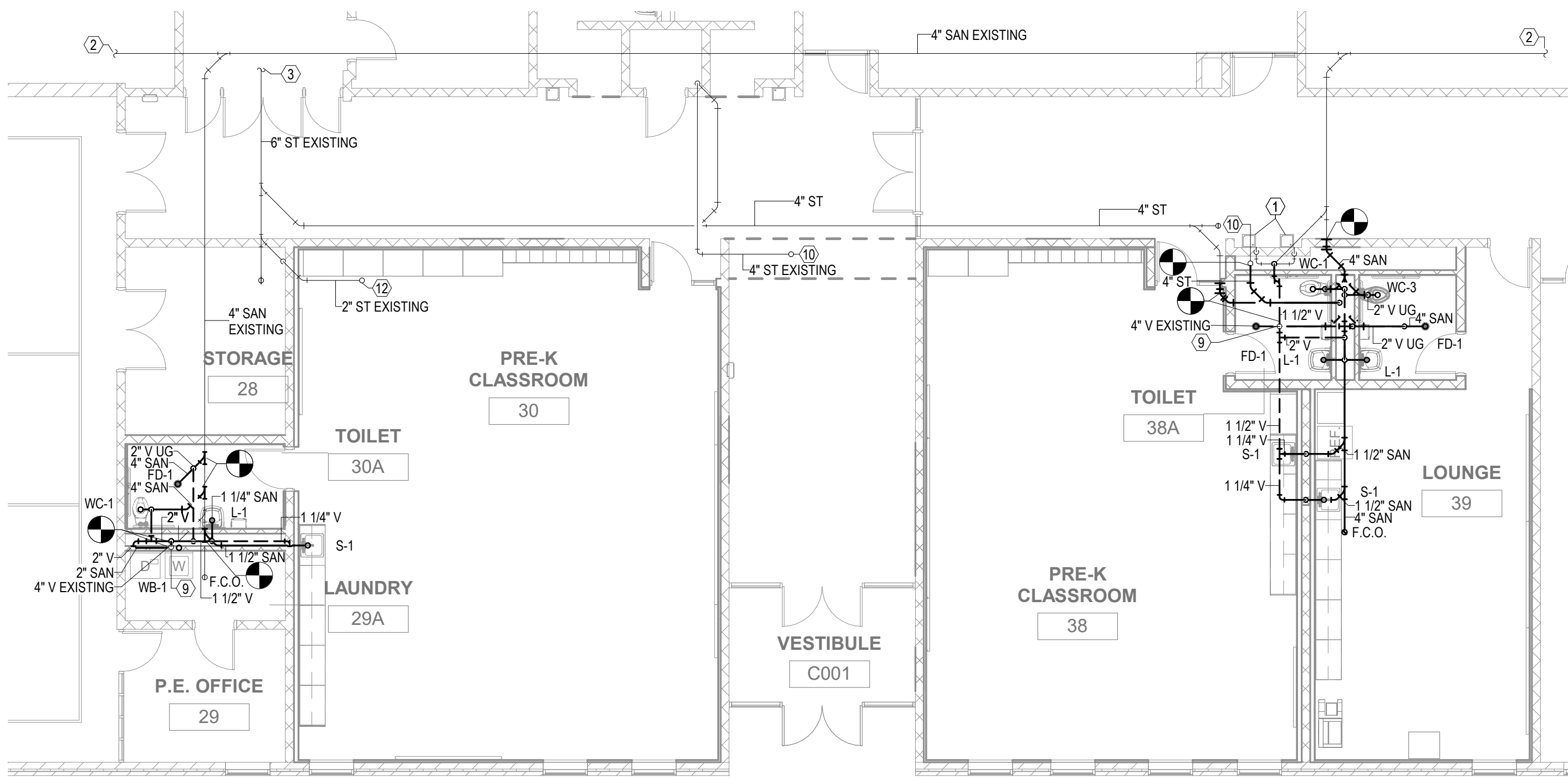
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PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MODULE A

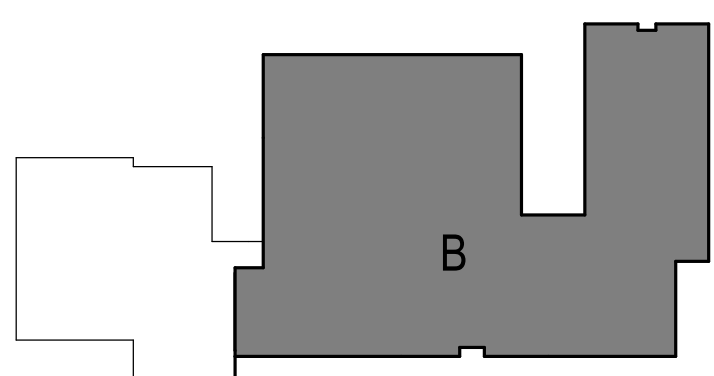
P-101A
ISSUED FOR BIDDING



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



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



- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS REGRESSION, 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 UNLESS CLARIFICATION FROM RS.
 - ALL PLUMBING SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET P-000 FOR LEGEND.
 - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
 - ALL PL ENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
 - 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**
- EXISTING PLUMBING FIXTURE TO REMAIN.
 - EXISTING 4" SANITARY LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
 - EXISTING 4" STORM LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
 - 3/4" COLD WATER LINE DOWN TO REFRIGERATOR. INSTALL BACKFLOW PREVENTER ON COLD WATER LINE PRIOR TO CONNECTION TO REFRIGERATOR. BACKFLOW PREVENTER TO BE WATTS LF510 OR SIMILAR.
 - EXISTING 2 1/2" CW, 1 1/4" HW, AND 3/4" HW LINES CONTINUE BACK TO BUILDING MAIN TO REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
 - EXISTING 2 1/2" CW, 1 1/4" HW, AND 3/4" HW LINES CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN. FIELD VERIFY EXISTING CONDITION PRIOR TO STARTING WORK.
 - EXISTING DOMESTIC WATER PIPING TO CONTINUE TO FEED EXISTING BATHROOM TO REMAIN.
 - INSTALL 3/4" BALANCING VALVE ON HOT WATER RETURN LINE PRIOR TO CONNECTION TO HOT WATER LINE.
 - EXISTING 4" VENT THROUGH ROOF TO REMAIN.
 - EXISTING 4" STORM LINE DOWN FROM ROOF DRAIN TO REMAIN.
 - PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE ON ALL PUBLIC LAVATORIES TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
 - EXISTING 2" STORM LINE DOWN FROM ROOF DRAIN TO REMAIN.

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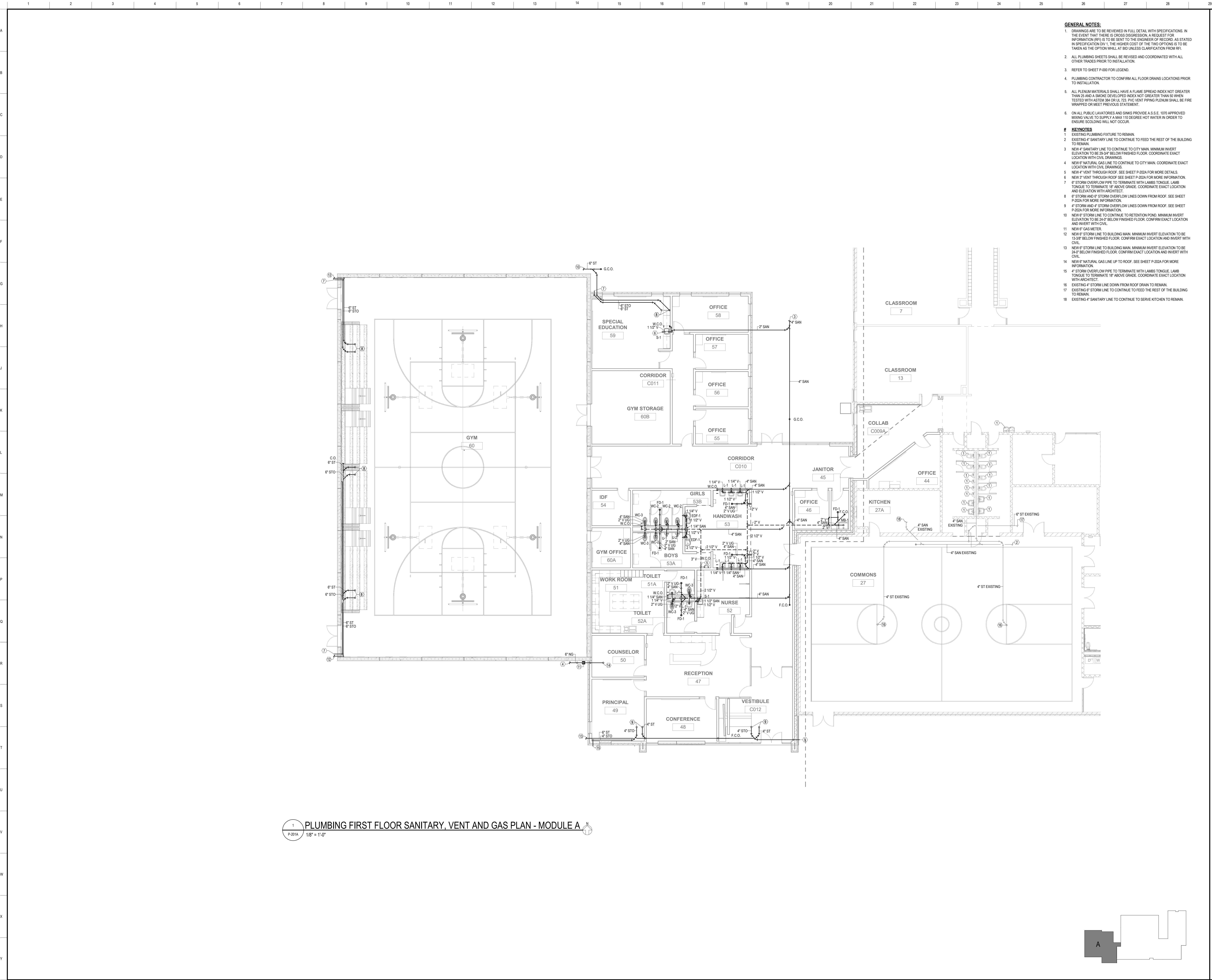
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PLUMBING FIRST
FLOOR PLAN - MODULE
B

P-101B
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1 PLUMBING FIRST FLOOR SANITARY, VENT AND GAS PLAN - MODULE A
P-201A 1/8" = 1'-0"

- GENERAL NOTES:**
- 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 UNLESS CLARIFICATION FROM RFI.
 - ALL PLUMBING SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET P-200 FOR LEGEND.
 - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAINS LOCATIONS PRIOR TO INSTALLATION.
 - 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 ASTM E814 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
 - 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**
- EXISTING PLUMBING FIXTURE TO REMAIN.
 - EXISTING 4" SANITARY LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
 - NEW 4" SANITARY LINE TO CONTINUE TO CITY MAIN. MINIMUM INVERT ELEVATION TO BE 26.34' BELOW FINISHED FLOOR. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
 - NEW 6" NATURAL GAS LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
 - NEW 4" VENT THROUGH ROOF. SEE SHEET P-202A FOR MORE DETAILS.
 - NEW 1" VENT THROUGH ROOF. SEE SHEET P-202A FOR MORE INFORMATION.
 - 6" STORM OVERFLOW PIPE TO TERMINATE WITH LAMBS TONGUE. LAMB TONGUE TO TERMINATE 18" ABOVE GRADE. COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT.
 - 6" STORM AND 6" STORM OVERFLOW LINES DOWN FROM ROOF. SEE SHEET P-202A FOR MORE INFORMATION.
 - 4" STORM AND 4" STORM OVERFLOW LINES DOWN FROM ROOF. SEE SHEET P-202A FOR MORE INFORMATION.
 - NEW 6" STORM LINE TO CONTINUE TO RETENTION POND. MINIMUM INVERT ELEVATION TO BE 24.4' BELOW FINISHED FLOOR. CONFIRM EXACT LOCATION AND INVERT WITH CIVIL.
 - NEW 6" GAS METER.
 - NEW 6" STORM LINE TO BUILDING MAIN. MINIMUM INVERT ELEVATION TO BE 13.38' BELOW FINISHED FLOOR. CONFIRM EXACT LOCATION AND INVERT WITH CIVIL.
 - NEW 6" STORM LINE TO BUILDING MAIN. MINIMUM INVERT ELEVATION TO BE 24.4' BELOW FINISHED FLOOR. CONFIRM EXACT LOCATION AND INVERT WITH CIVIL.
 - NEW 6" NATURAL GAS LINE UP TO ROOF. SEE SHEET P-202A FOR MORE INFORMATION.
 - 4" STORM OVERFLOW PIPE TO TERMINATE WITH LAMBS TONGUE. LAMB TONGUE TO TERMINATE 18" ABOVE GRADE. COORDINATE EXACT LOCATION WITH ARCHITECT.
 - EXISTING 4" STORM LINE DOWN FROM ROOF DRAIN TO REMAIN.
 - EXISTING 4" STORM LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
 - EXISTING 4" SANITARY LINE TO CONTINUE TO FEED KITCHEN TO REMAIN.

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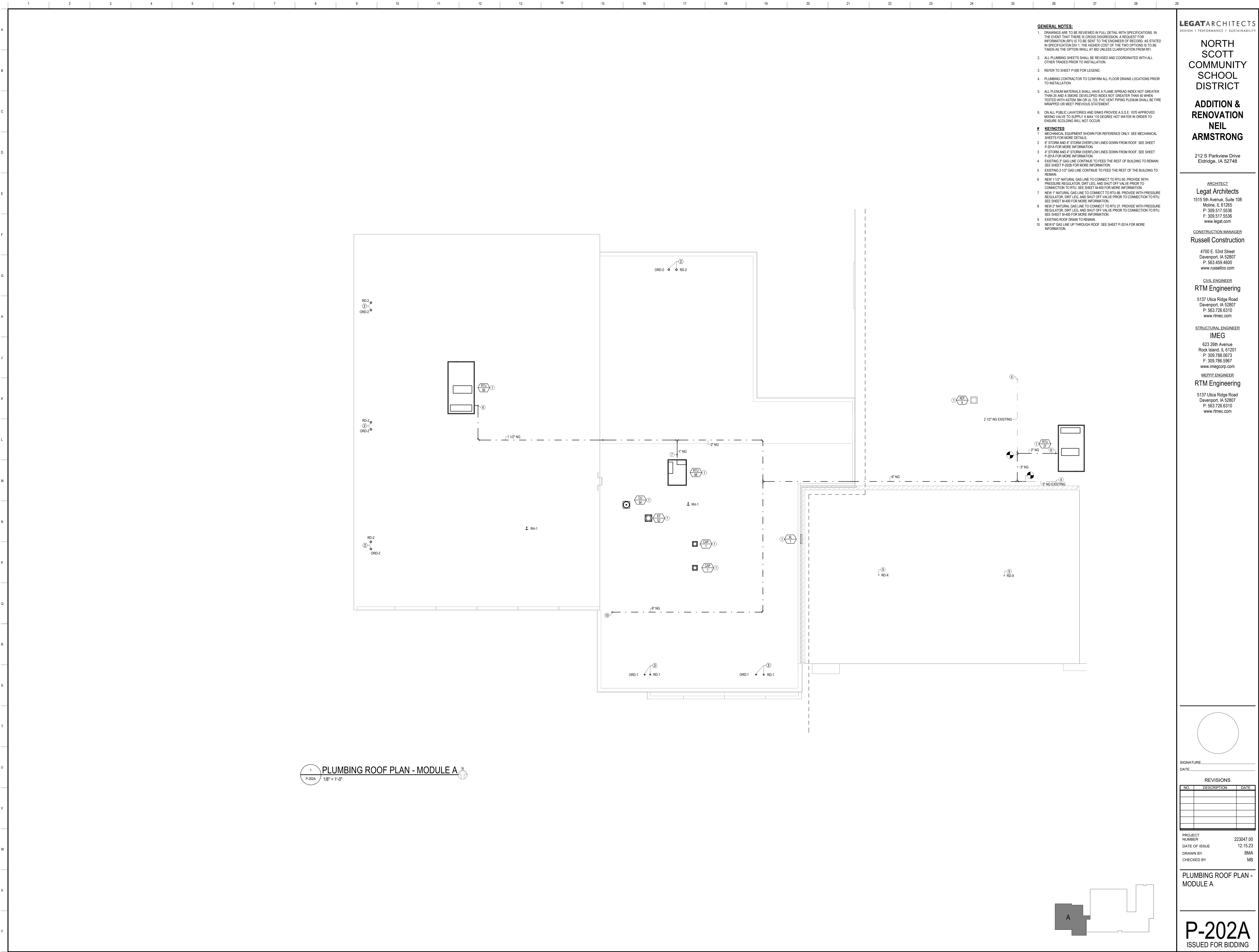
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PLUMBING SANITARY, VENT AND GAS PLAN - MODULE A

P-201A
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- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DISCREPANCY, 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 WILL AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL PLUMBING SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET P-200 FOR LEGEND.
 - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
 - 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 ASTM 384 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
 - 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 SCALDING WILL NOT OCCUR.
- KEYNOTES**
- MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE DETAILS.
 - 6\"/>

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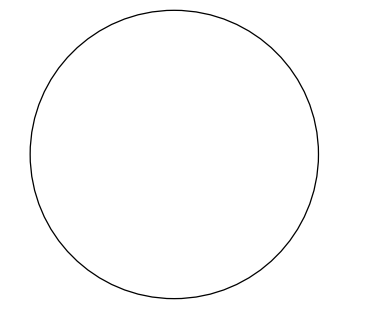
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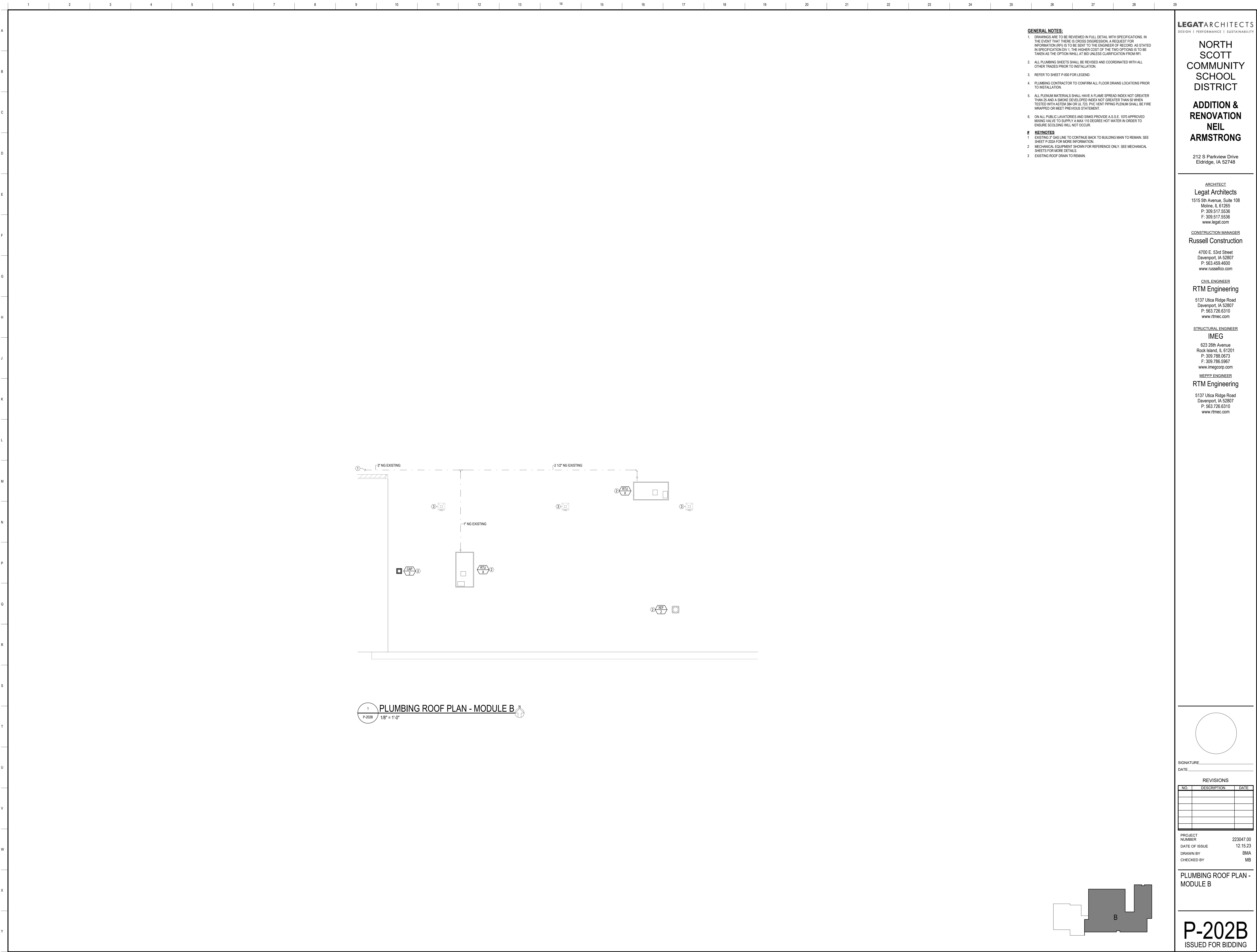

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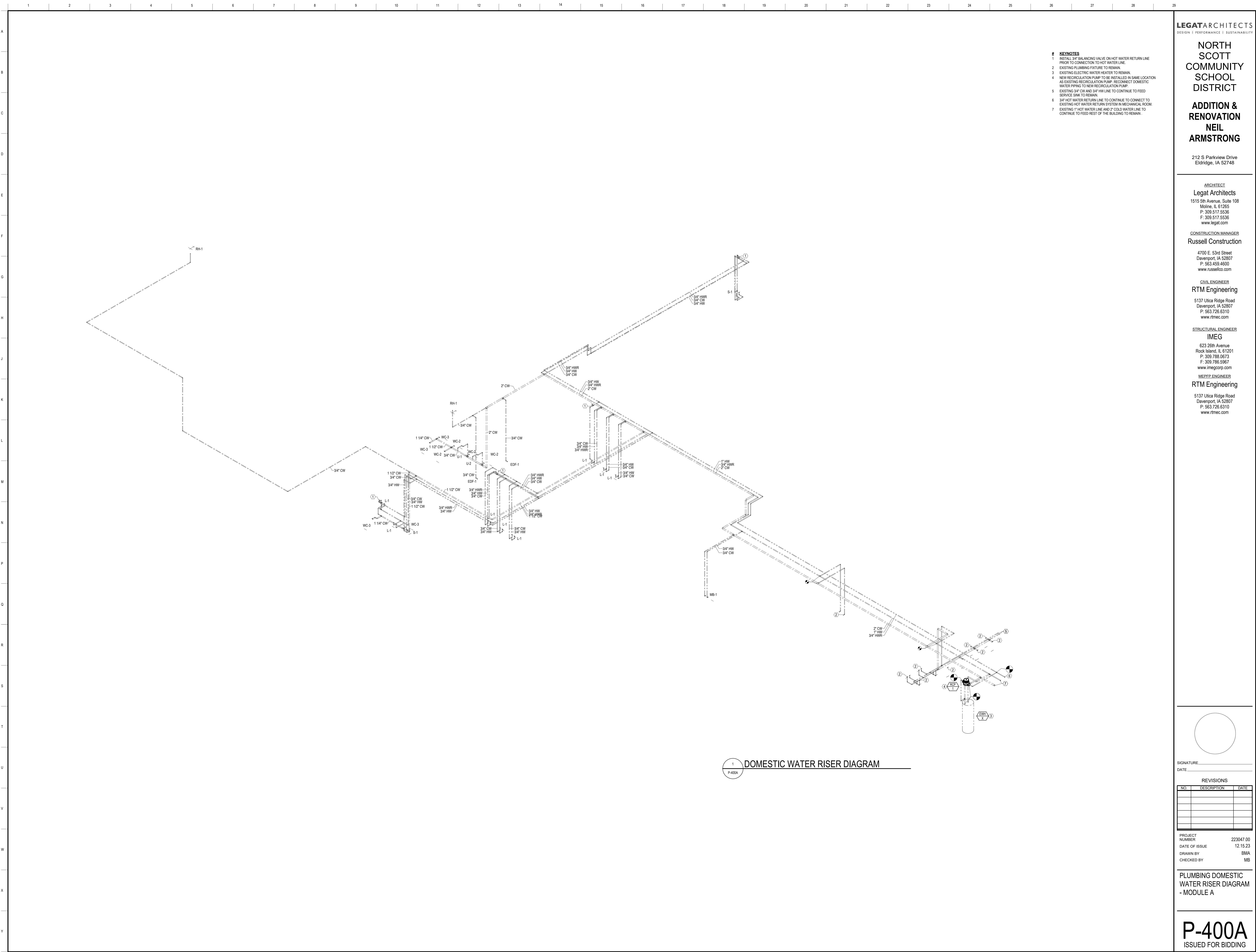
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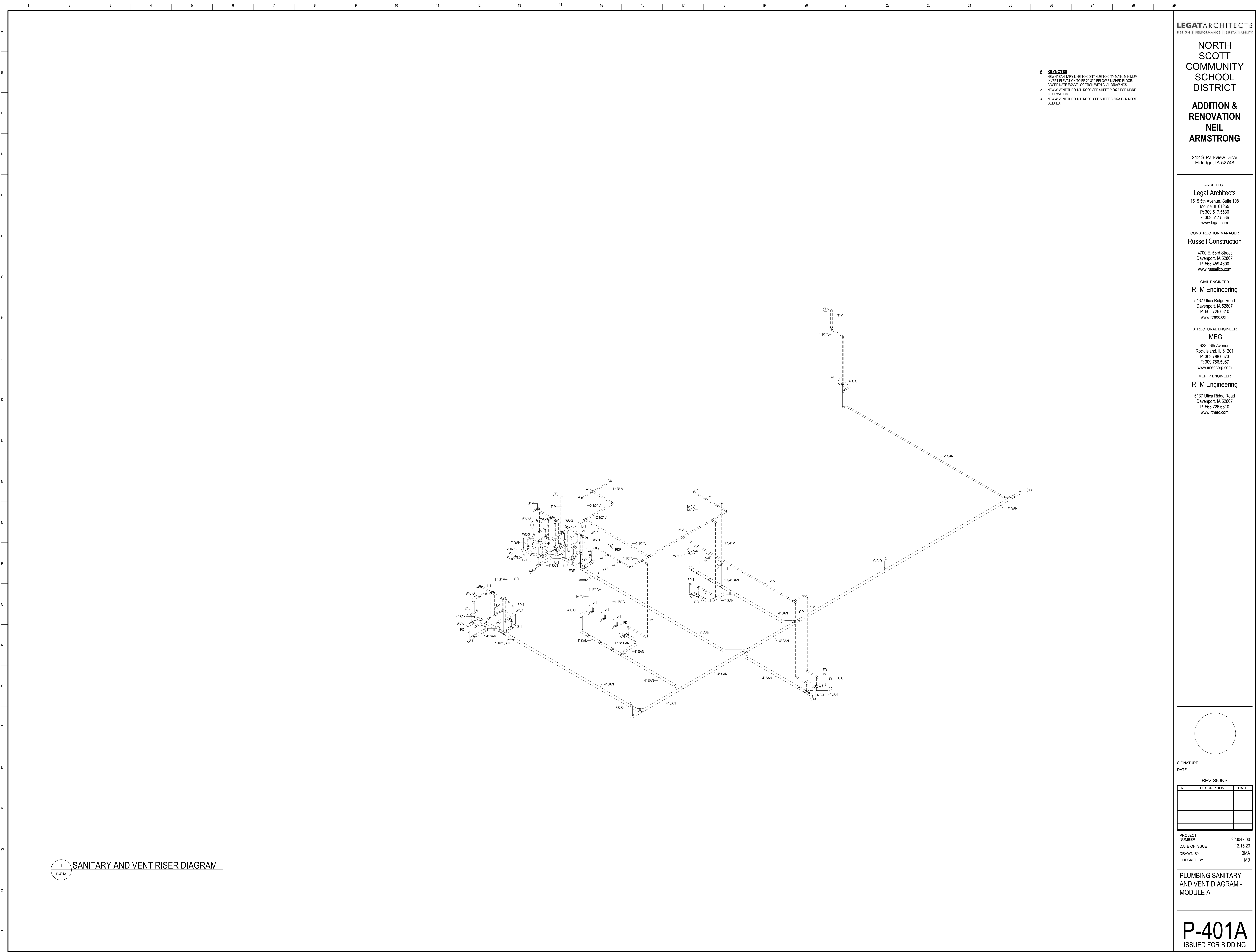
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PLUMBING ROOF PLAN - MODULE A

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- # KEYNOTES
- 1 NEW 4" SANITARY LINE TO CONTINUE TO CITY MAIN. MINIMUM INVERT ELEVATION TO BE 29'-3 3/4" BELOW FINISHED FLOOR. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
 - 2 NEW 2" VENT THROUGH ROOF SEE SHEET P-202A FOR MORE INFORMATION.
 - 3 NEW 4" VENT THROUGH ROOF. SEE SHEET P-202A FOR MORE DETAILS.

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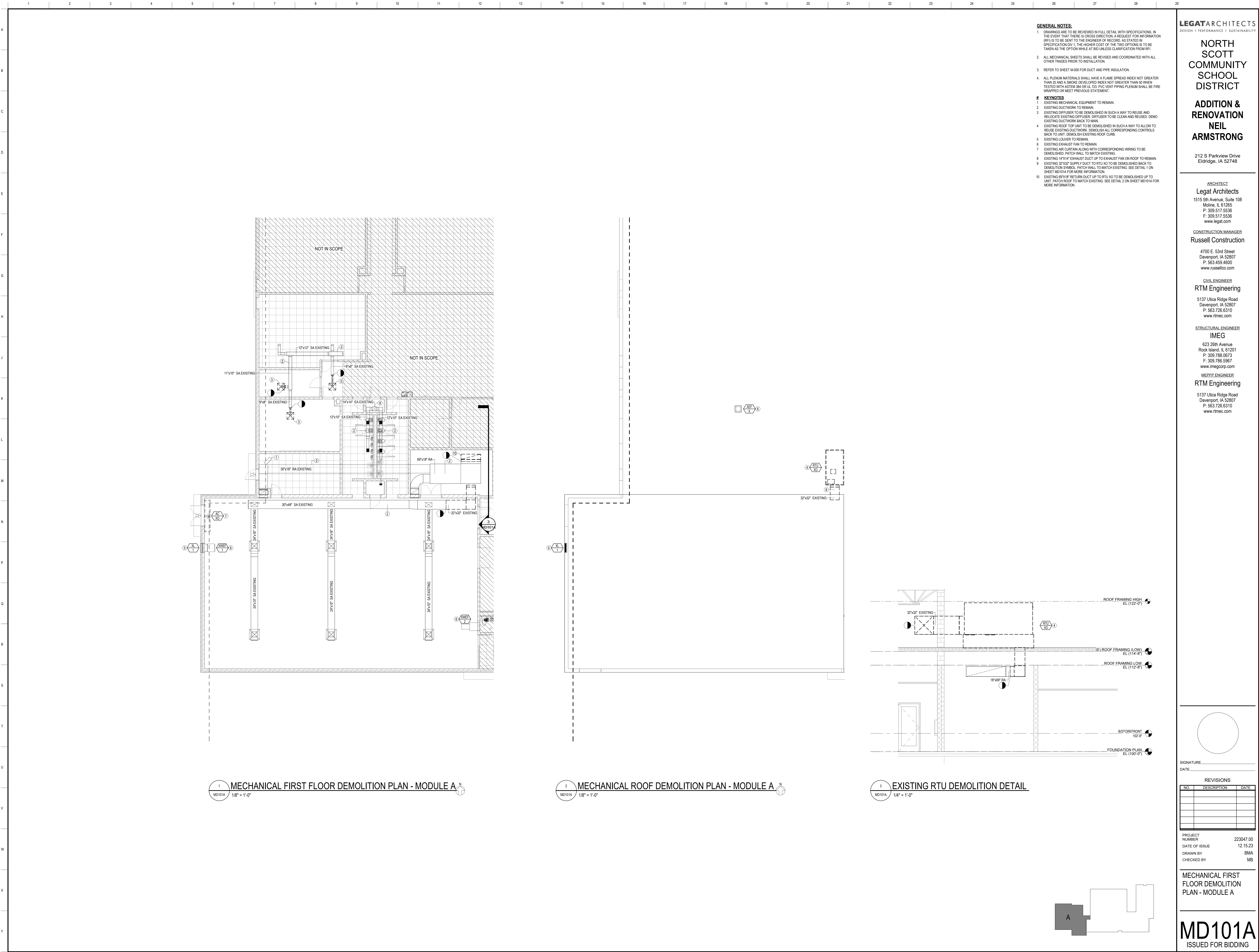
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PLUMBING SANITARY
AND VENT DIAGRAM -
MODULE A

P-401A

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GENERAL NOTES:

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

KEYNOTES

- EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- EXISTING DUCTWORK TO REMAIN.
- EXISTING DIFFUSER TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING DIFFUSER. DIFFUSER TO BE CLEAN AND REUSED. DEMO EXISTING DUCTWORK BACK TO MAIN.
- EXISTING ROOF TOP UNIT TO BE DEMOLISHED IN SUCH A WAY TO ALLOW TO REUSE EXISTING DUCTWORK. DEMOLISH ALL CORRESPONDING CONTROLS BACK TO UNIT. DEMOLISH EXISTING ROOF CURB.
- EXISTING LOUVER TO REMAIN.
- EXISTING EXHAUST FAN TO REMAIN.
- EXISTING AIR CURTAIN ALONG WITH CORRESPONDING WIRING TO BE DEMOLISHED. PATCH WALL TO MATCH EXISTING.
- EXISTING 14"x14" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF TO REMAIN. EXISTING 12"x12" SUPPLY DUCT TO RTU NO TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL. PATCH WALL TO MATCH EXISTING. SEE DETAIL 1 ON SHEET MD101A FOR MORE INFORMATION.
- EXISTING 60"x18" RETURN DUCT UP TO RTU NO TO BE DEMOLISHED UP TO UNIT. PATCH ROOF TO MATCH EXISTING. SEE DETAIL 2 ON SHEET MD101A FOR MORE INFORMATION.

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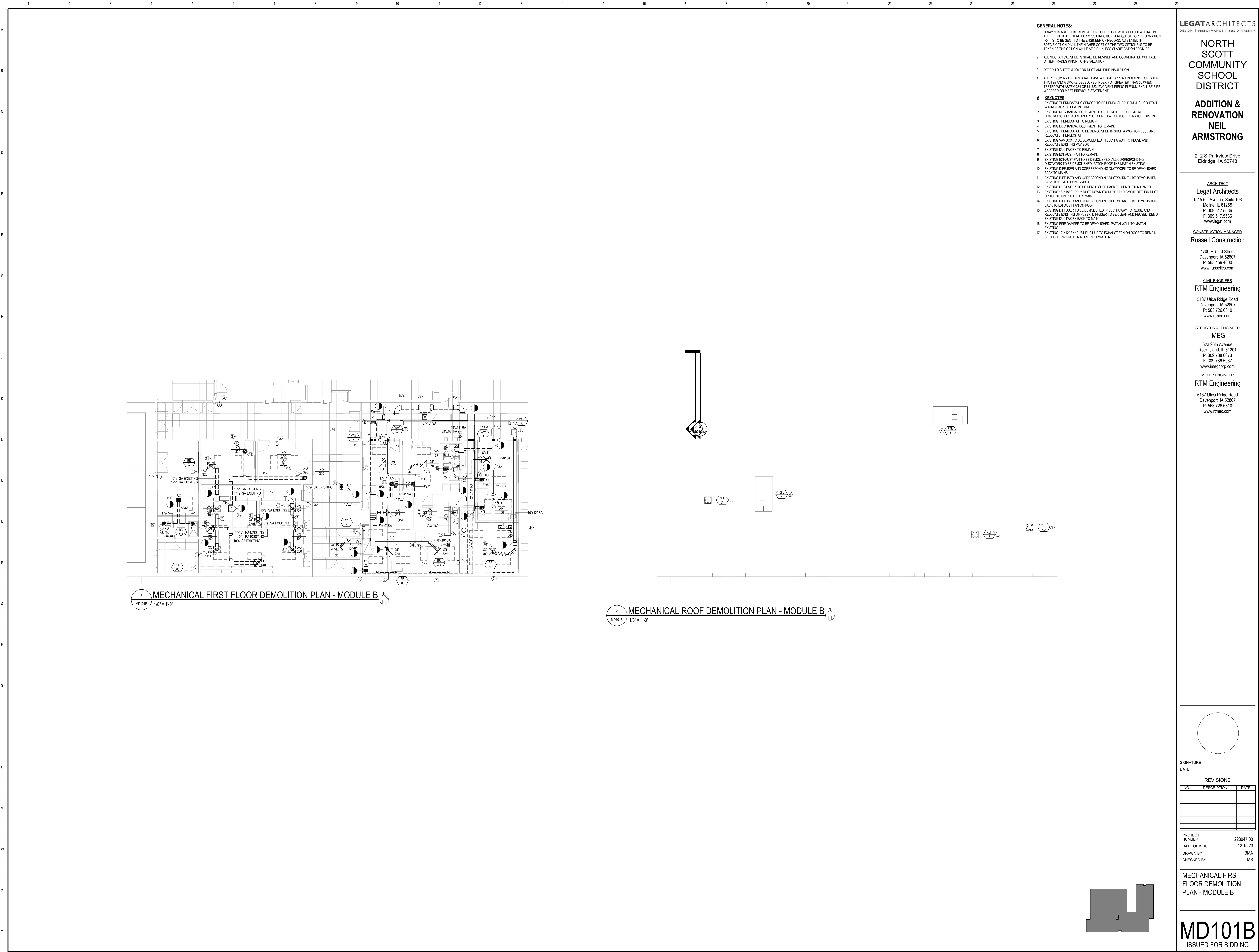
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PROJECT NUMBER: 223047.00
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CHECKED BY: MB

MECHANICAL FIRST FLOOR DEMOLITION PLAN - MODULE A

MD101A
ISSUED FOR BIDDING



- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD AS STATED IN SPECIFICATION DIV 1. THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL MECHANICAL SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET M-002 FOR DUCT AND PIPE INSULATION.
 - 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 ASTM E 84 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- KEYNOTES**
- EXISTING THERMOSTATIC SENSOR TO BE DEMOLISHED. DEMOLISH CONTROL WIRING BACK TO HEATING UNIT.
 - EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DEMO ALL CONTROLS, DUCTWORK AND ROOF CURB. PATCH ROOF TO MATCH EXISTING.
 - EXISTING THERMOSTAT TO REMAIN.
 - EXISTING MECHANICAL EQUIPMENT TO REMAIN.
 - EXISTING THERMOSTAT TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE THERMOSTAT.
 - EXISTING VAV BOX TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING VAV BOX.
 - EXISTING DUCTWORK TO REMAIN.
 - EXISTING EXHAUST FAN TO REMAIN.
 - EXISTING EXHAUST FAN TO BE DEMOLISHED. ALL CORRESPONDING DUCTWORK TO BE DEMOLISHED. PATCH ROOF THE MATCH EXISTING. EXISTING DIFFUSER AND CORRESPONDING DUCTWORK TO BE DEMOLISHED BACK TO MAIN.
 - EXISTING DIFFUSER AND CORRESPONDING DUCTWORK TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
 - EXISTING DUCTWORK TO BE DEMOLISHED BACK TO DEMOLITION SYMBOL.
 - EXISTING 18"X18" SUPPLY DUCT DOWN FROM RTU AND 22"X18" RETURN DUCT UP TO RTU ON ROOF TO REMAIN.
 - EXISTING DIFFUSER AND CORRESPONDING DUCTWORK TO BE DEMOLISHED BACK TO EXHAUST FAN ON ROOF.
 - EXISTING DIFFUSER TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING DIFFUSER. DIFFUSER TO BE CLEAN AND REUSED. DEMO EXISTING DUCTWORK BACK TO MAIN.
 - EXISTING FIRE DAMPER TO BE DEMOLISHED. PATCH WALL TO MATCH EXISTING.
 - EXISTING 12"X12" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF TO REMAIN. SEE SHEET M-002S FOR MORE INFORMATION.

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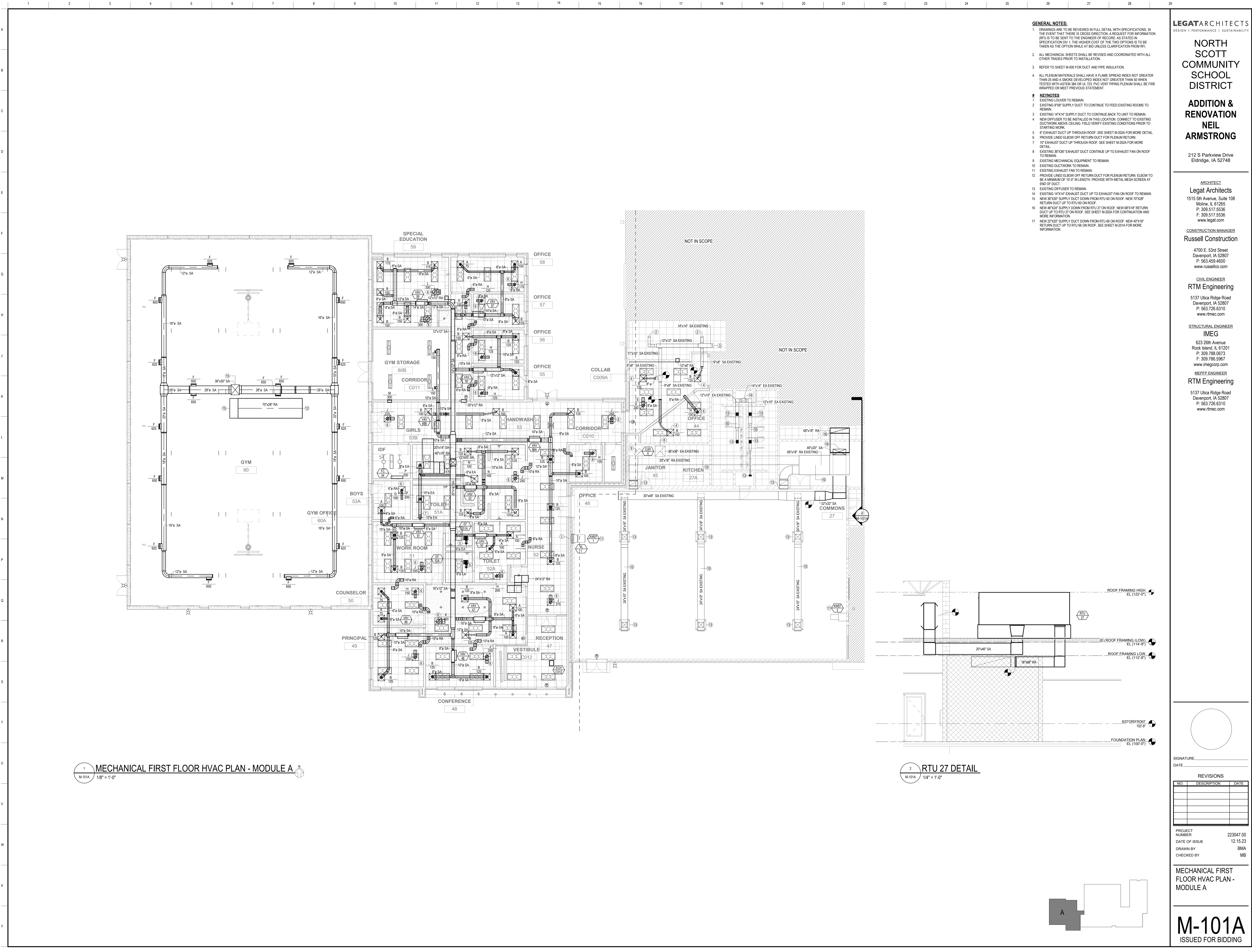
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MECHANICAL FIRST FLOOR DEMOLITION PLAN - MODULE B

MD101B
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- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS-DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV. 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION UNLESS CLARIFICATION FROM RFI.
 - ALL MECHANICAL SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
 - 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 ASTER 3M OR UL 723. TWO VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- KEYNOTES:**
- EXISTING LOUVER TO REMAIN.
 - EXISTING FAP SUPPLY DUCT TO CONTINUE TO FEED EXISTING ROOMS TO REMAIN.
 - EXISTING 14"x14" SUPPLY DUCT TO CONTINUE BACK TO UNIT TO REMAIN.
 - NEW OFFICER TO BE INSTALLED IN THIS LOCATION. CONNECT TO EXISTING DUCTWORK ABOVE CEILING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
 - 6" EXHAUST DUCT UP THROUGH ROOF. SEE SHEET M-202A FOR MORE DETAIL.
 - PROVIDE LINED ELBOW OFF RETURN DUCT FOR PLENUM RETURN.
 - 10" EXHAUST DUCT UP THROUGH ROOF. SEE SHEET M-202A FOR MORE DETAIL.
 - EXISTING 36"x36" EXHAUST DUCT CONTINUE UP TO EXHAUST FAN ON ROOF TO REMAIN.
 - EXISTING MECHANICAL EQUIPMENT TO REMAIN.
 - EXISTING DUCTWORK TO REMAIN.
 - EXISTING EXHAUST FAN TO REMAIN.
 - PROVIDE LINED ELBOW OFF RETURN DUCT FOR PLENUM RETURN. ELBOW TO BE A MINIMUM OF 10'-0" IN LENGTH. PROVIDE WITH METAL MESH SCREEN AT END OF DUCT.
 - EXISTING OFFICER TO REMAIN.
 - EXISTING 14"x14" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF TO REMAIN. RETURN DUCT UP TO RTU 60 ON ROOF. NEW 10"x20" RETURN DUCT UP TO RTU 27 ON ROOF. NEW 60"x18" RETURN DUCT UP TO RTU 27 ON ROOF. SEE SHEET M-202A FOR CONTINUATION AND MORE INFORMATION.
 - NEW 22"x20" SUPPLY DUCT DOWN FROM RTU 60 ON ROOF. NEW 40"x18" RETURN DUCT UP TO RTU 60 ON ROOF. SEE SHEET M-201A FOR MORE INFORMATION.

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

2 RTU 27 DETAIL
M-101A 1/4" = 1'-0"

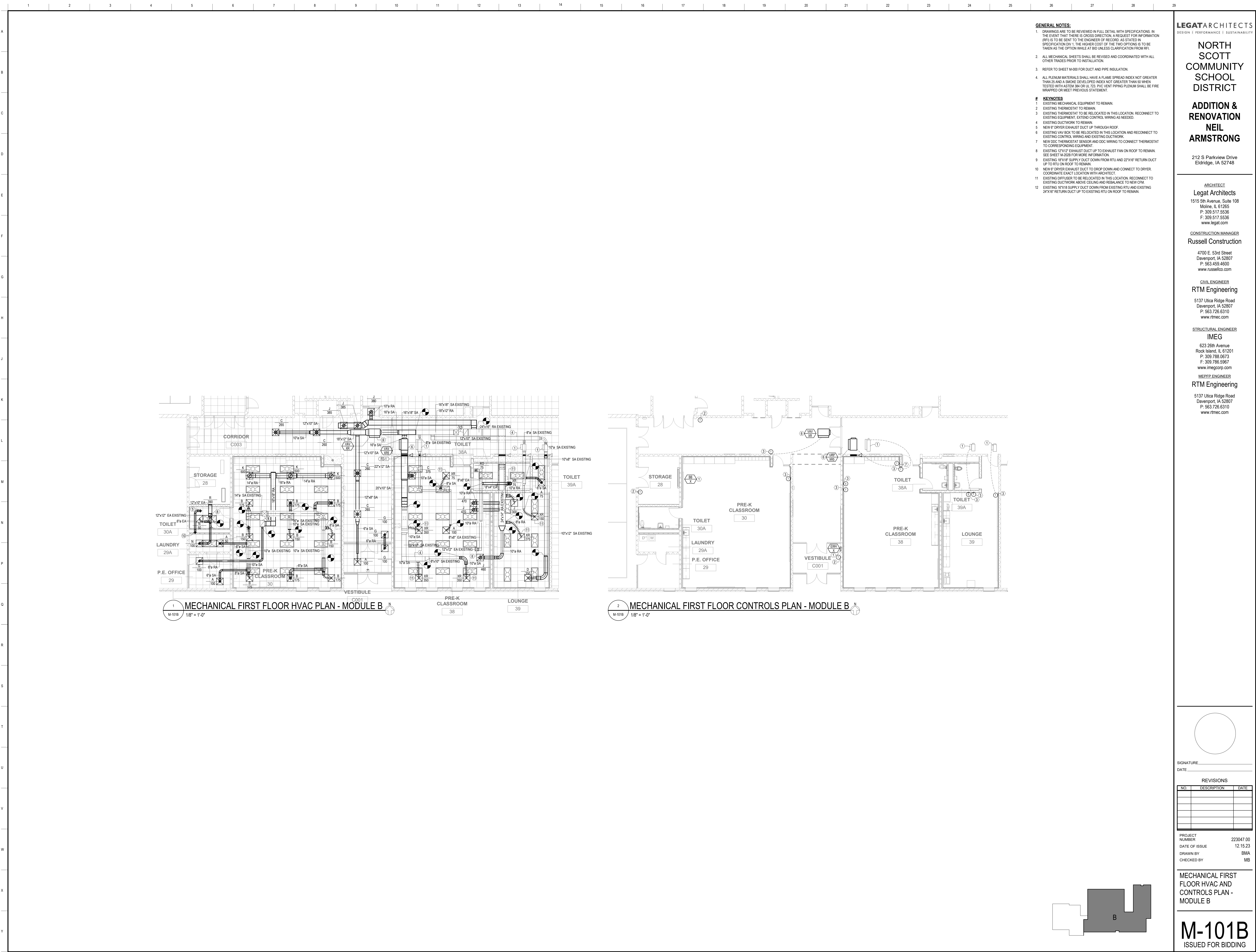
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MECHANICAL FIRST FLOOR HVAC PLAN - MODULE A

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- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION UNLESS CLARIFICATION FROM RFI.
 - ALL MECHANICAL SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET M-1000 FOR DUCT AND PIPE INSULATION.
 - 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 ASTER 3M OR UL 22. TWO VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- KEYNOTES**
- EXISTING MECHANICAL EQUIPMENT TO REMAIN.
 - EXISTING THERMOSTAT TO REMAIN.
 - EXISTING THERMOSTAT TO BE RELOCATED IN THIS LOCATION. RECONNECT TO EXISTING EQUIPMENT. EXTEND CONTROL WIRING AS NEEDED.
 - EXISTING DUCTWORK TO REMAIN.
 - NEW 6" DRYER EXHAUST DUCT UP THROUGH ROOF.
 - EXISTING VAV BOX TO BE RELOCATED IN THIS LOCATION AND RECONNECT TO EXISTING CONTROL WIRING AND EXISTING DUCTWORK.
 - NEW DDC THERMOSTAT SENSOR AND DDC WIRING TO CONNECT THERMOSTAT TO CORRESPONDING EQUIPMENT.
 - EXISTING 12"x12" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF TO REMAIN. SEE SHEET M-202B FOR MORE INFORMATION.
 - EXISTING 18"x18" SUPPLY DUCT DOWN FROM RTU AND 24"x18" RETURN DUCT UP TO RTU ON ROOF TO REMAIN.
 - NEW 6" DRYER EXHAUST DUCT TO DROP DOWN AND CONNECT TO DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT.
 - EXISTING DIFFUSER TO BE RELOCATED IN THIS LOCATION. RECONNECT TO EXISTING DUCTWORK ABOVE CEILING AND REBALANCE TO NEW CFM.
 - EXISTING 18"x8" SUPPLY DUCT DOWN FROM EXISTING RTU AND EXISTING 24"x18" RETURN DUCT UP TO EXISTING RTU ON ROOF TO REMAIN.

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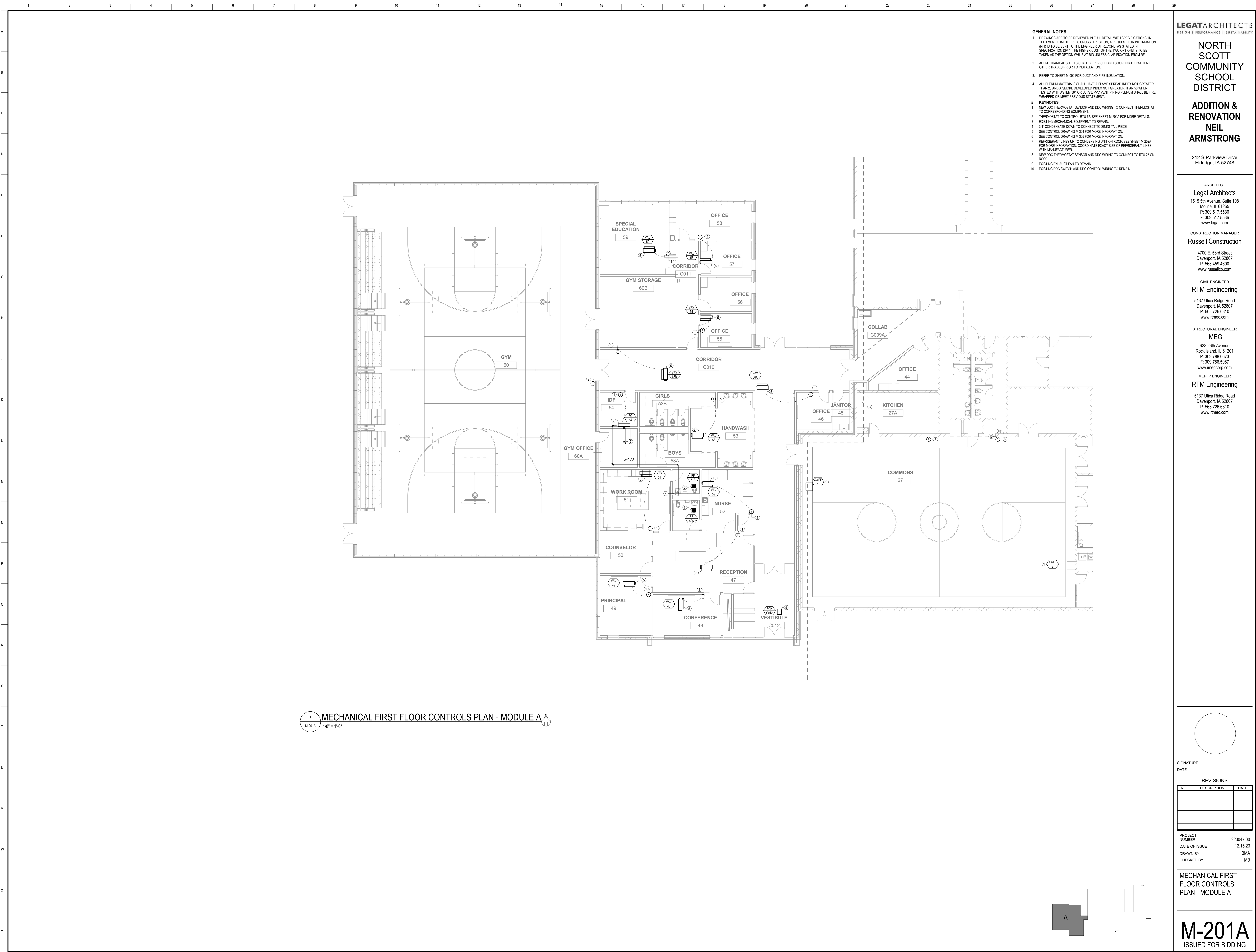
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MECHANICAL FIRST
FLOOR HVAC AND
CONTROLS PLAN -
MODULE B

M-101B
ISSUED FOR BIDDING



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

- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS-DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL MECHANICAL SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET M-600 FOR DUCT AND PIPE INSULATION.
 - 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 ASTM 84 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- # KEYNOTES:**
- NEW DDC THERMOSTAT SENSOR AND DDC WIRING TO CONNECT THERMOSTAT TO CORRESPONDING EQUIPMENT.
 - THERMOSTAT TO CONTROL RTU 67. SEE SHEET M-202A FOR MORE DETAILS.
 - EXISTING MECHANICAL EQUIPMENT TO REMAIN.
 - 3/4" CONDENSATE DOWN TO CONNECT TO SINKS TAIL PIECE.
 - SEE CONTROL DRAWING M-304 FOR MORE INFORMATION.
 - SEE CONTROL DRAWING M-305 FOR MORE INFORMATION.
 - REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE SHEET M-202A FOR MORE INFORMATION. COORDINATE EXACT SIZE OF REFRIGERANT LINES WITH MANUFACTURER.
 - NEW DDC THERMOSTAT SENSOR AND DDC WIRING TO CONNECT TO RTU 27 ON ROOF.
 - EXISTING EXHAUST FAN TO REMAIN.
 - EXISTING DDC SWITCH AND DDC CONTROL WIRING TO REMAIN.

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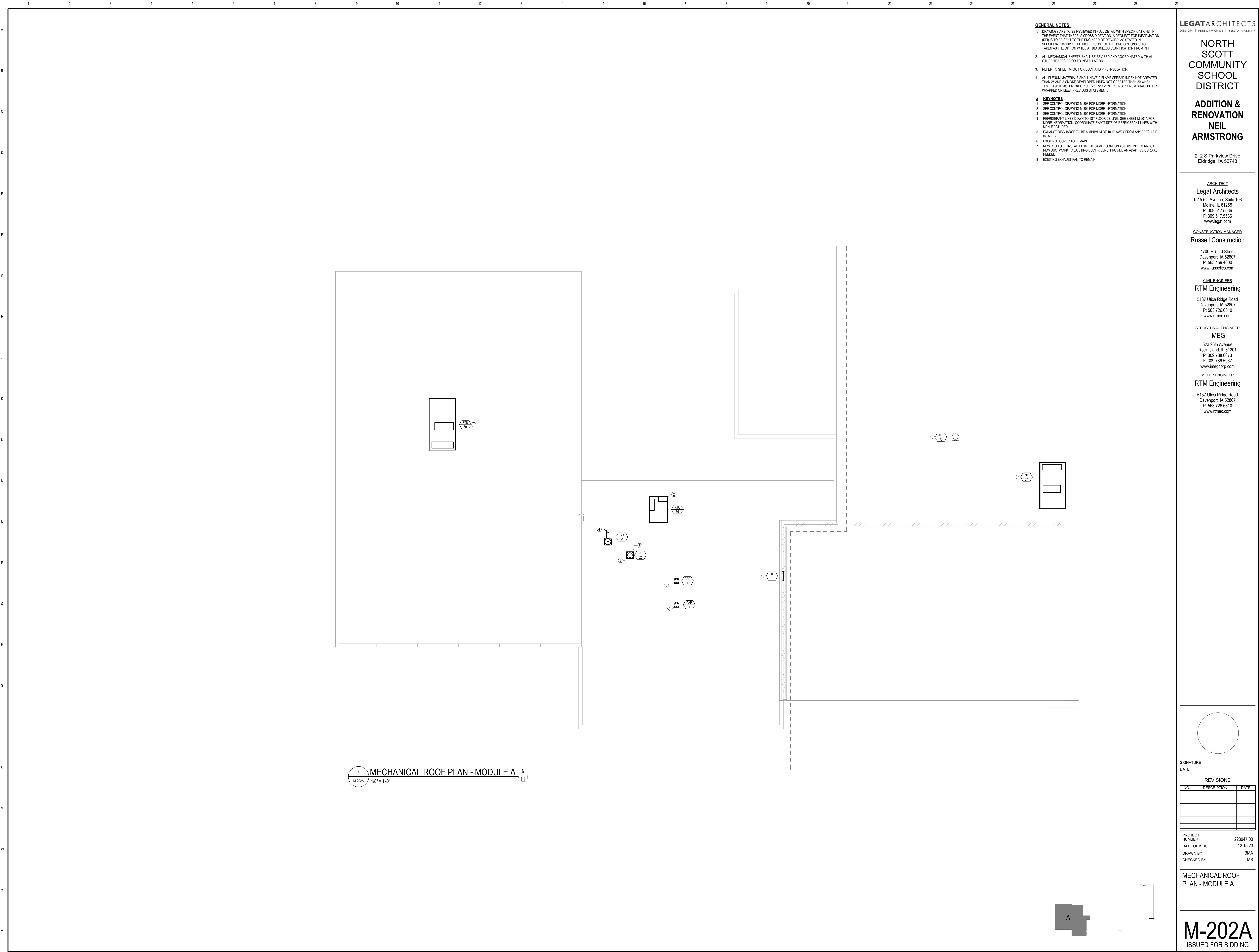
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MECHANICAL FIRST
FLOOR CONTROLS
PLAN - MODULE A

M-201A
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- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD AS STATED IN SPECIFICATION DIV 1. THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL MECHANICAL SHEETS SHALL BE REVISED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET M-200 FOR DUCT AND PIPE INSULATION.
 - 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 ASTM 284 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- KEYNOTES**
- SEE CONTROL DRAWING M-303 FOR MORE INFORMATION.
 - SEE CONTROL DRAWING M-302 FOR MORE INFORMATION.
 - SEE CONTROL DRAWING M-305 FOR MORE INFORMATION.
 - REFRIGERANT LINES DOWN TO 1ST FLOOR CEILING. SEE SHEET M-201A FOR MORE INFORMATION. COORDINATE EXACT SIZE OF REFRIGERANT LINES WITH MANUFACTURER.
 - EXHAUST DISCHARGE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES.
 - EXISTING LOUVER TO REMAIN.
 - NEW RTU TO BE INSTALLED IN THE SAME LOCATION AS EXISTING. CONNECT NEW DUCTWORK TO EXISTING DUCT RISERS. PROVIDE AN ADAPTIVE CURB AS NEEDED.
 - EXISTING EXHAUST FAN TO REMAIN.

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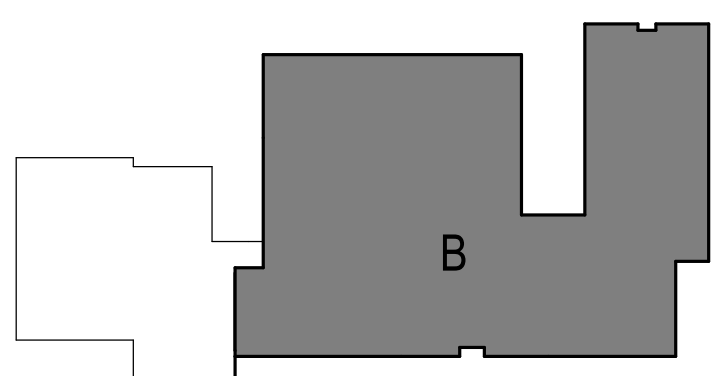
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MECHANICAL ROOF PLAN - MODULE A

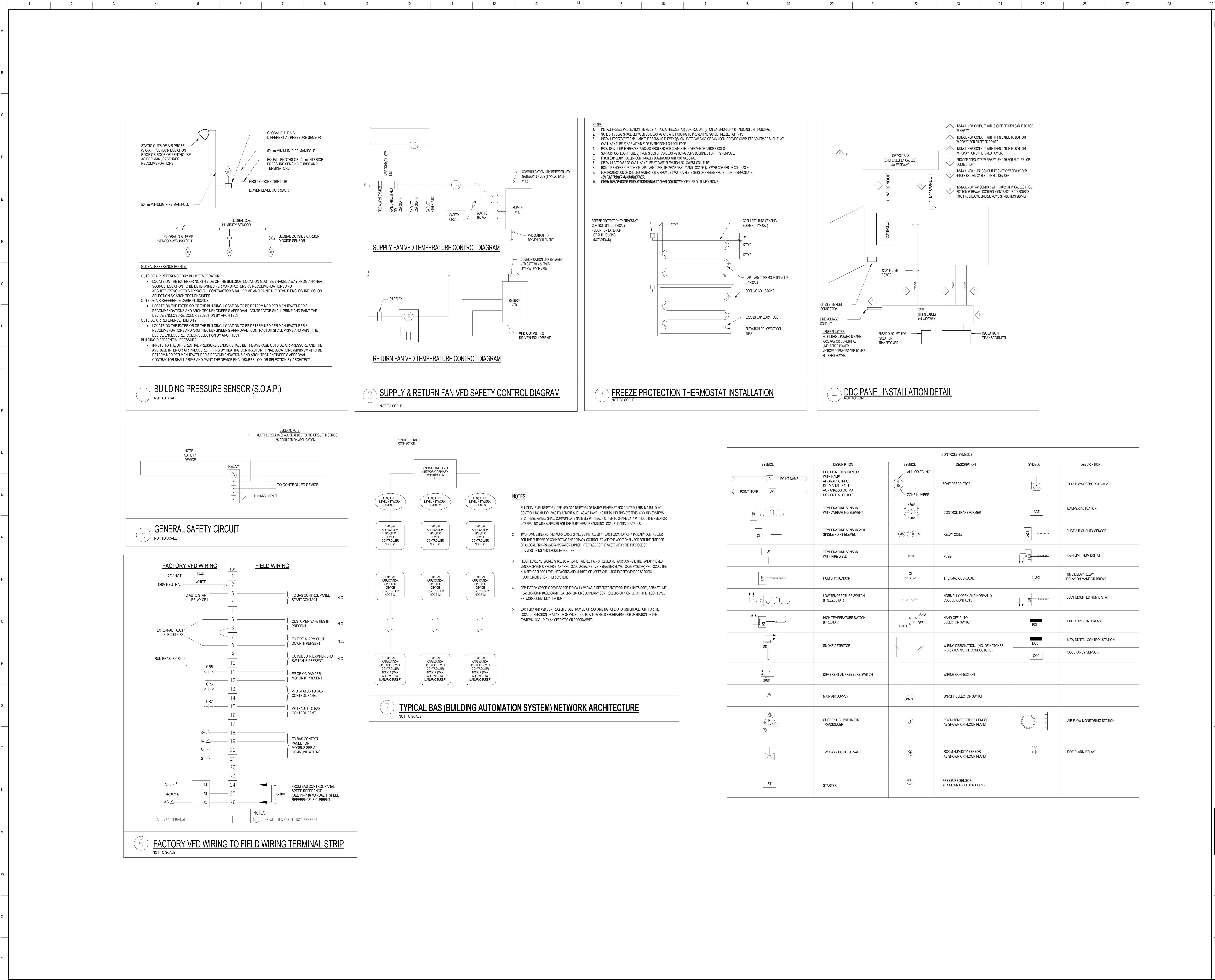
M-202A
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1 EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2 WEATHER CAP TO CONNECT TO NEW 6" DRYER EXHAUST DUCT. SEE SHEET
M-101B FOR MORE INFORMATION.

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MECHANICAL ROOF PLAN - MODULE B



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CONTROLS SYMBOLS					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DDC POINT DESCRIPTOR WITH NAME AI - ANALOG INPUT DI - DIGITAL INPUT AO - ANALOG OUTPUT DO - DIGITAL OUTPUT		ZONE DESCRIPTOR		THREE WAY CONTROL VALVE
	TEMPERATURE SENSOR WITH AVERAGING ELEMENT		CONTROL TRANSFORMER		DAMPER ACTUATOR
	TEMPERATURE SENSOR WITH SINGLE POINT ELEMENT		RELAY COILS		DUCT AIR QUALITY SENSOR
	HUMIDITY SENSOR		FUSE		HIGH LIMIT HUMIDISTAT
	LOW TEMPERATURE SWITCH (FREEZE/STAT)		THERMAL OVERLOAD		TIME DELAY RELAY DELAY ON MAKE OR BREAK
	HIGH TEMPERATURE SWITCH (FIRE/STAT)		HAND-OFF AUTO SELECTOR SWITCH		FIBER OPTIC INTERFACE
	SMOKE DETECTOR		WIRING DESIGNATION, (NO. OF HATCHES INDICATES NO. OF CONDUCTORS)		NEW DIGITAL CONTROL STATION
	DIFFERENTIAL PRESSURE SWITCH		WIRING CONNECTION		OCCUPANCY SENSOR
	MAIN AIR SUPPLY		ON-OFF SELECTOR SWITCH		
	CURRENT TO PNEUMATIC TRANSDUCER		ROOM TEMPERATURE SENSOR AS SHOWN ON FLOOR PLANS		AIR FLOW MONITORING STATION
	TWO WAY CONTROL VALVE		ROOM HUMIDITY SENSOR AS SHOWN ON FLOOR PLANS		FIRE ALARM RELAY
	STARTER		PRESSURE SENSOR AS SHOWN ON FLOOR PLANS		

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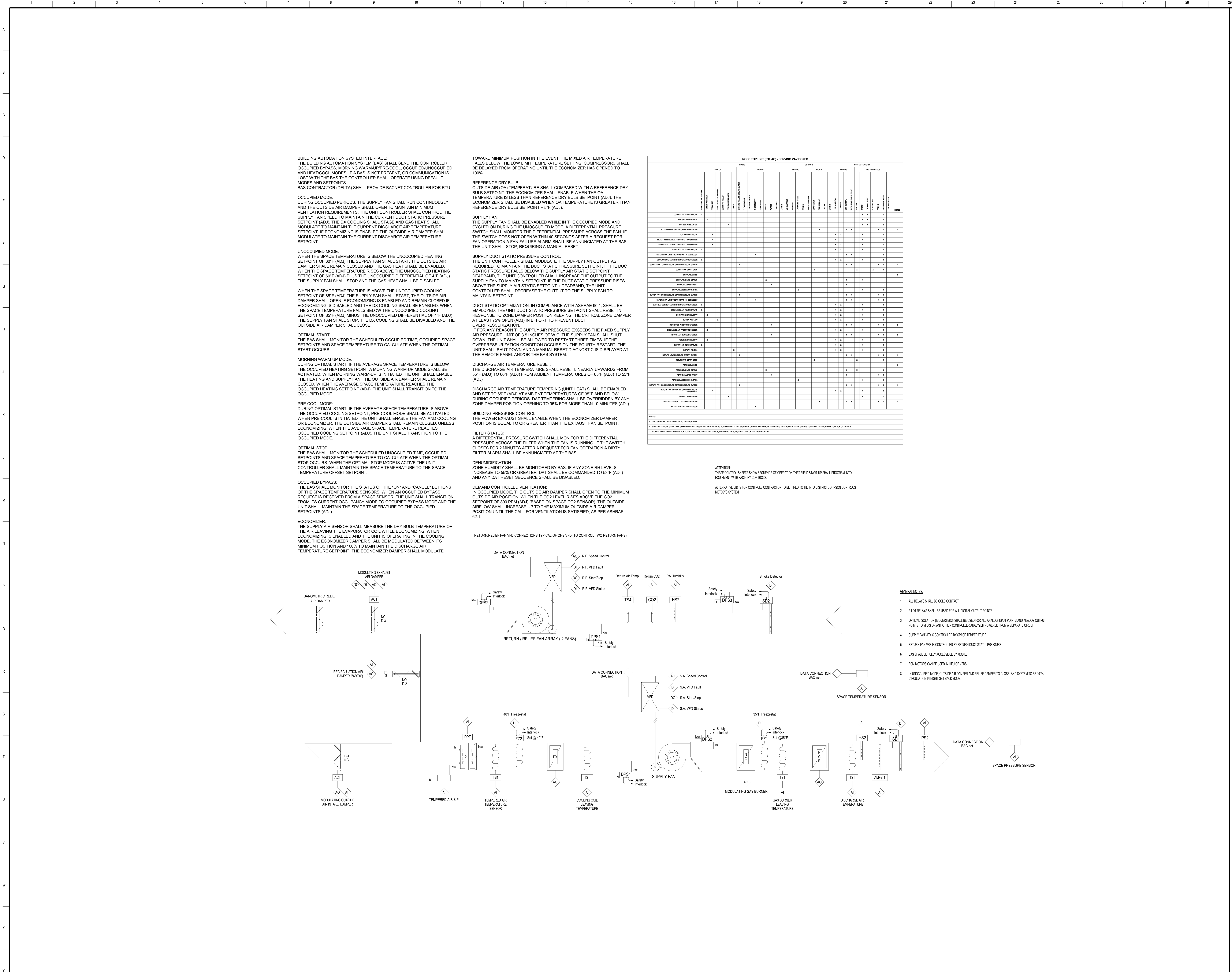
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CONTROLS LEGEND

SYMBOL	DESCRIPTION
	DDC POINT DESCRIPTOR WITH NAME
	ZONE DESCRIPTOR
	THREE WAY CONTROL VALVE
	TEMPERATURE SENSOR WITH AVERAGING ELEMENT
	TEMPERATURE SENSOR WITH SINGLE POINT ELEMENT
	HUMIDITY SENSOR
	LOW TEMPERATURE SWITCH (FREEZE/STAT)
	HIGH TEMPERATURE SWITCH (FIRE/STAT)
	SMOKE DETECTOR
	DIFFERENTIAL PRESSURE SWITCH
	MAIN AIR SUPPLY
	CURRENT TO PNEUMATIC TRANSDUCER
	TWO WAY CONTROL VALVE
	STARTER

M-301

ISSUED FOR 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 80°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 80°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 DA 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 50°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 CLOSURES 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 AIR FLOW SHALL INCREASE UP TO THE MAXIMUM OUTSIDE AIR DAMPER POSITION UNTIL THE CALL FOR VENTILATION IS SATISFIED, AS PER ASHRAE 62.1.

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

ROOF TOP UNIT (RTU-46) - SERVING VAV BOXES													
	FUNCTIONS/SENSORS	SERVES			CONTROL			ANALOG			DIGITAL/STATUS		
		ANALOG	DIGITAL	STATUS	ANALOG	DIGITAL	STATUS	ANALOG	DIGITAL	STATUS	ANALOG	DIGITAL	STATUS
1	OUTSIDE AIR TEMPERATURE	X									X	X	X
	OUTSIDE AIR HUMIDITY	X									X	X	X
2	RETURN AIR DAMPER		X								X	X	X
	EXTENDED OUTSIDE RETURNING AIR DAMPER				X					X	X	X	X
3	BUILDING PRESSURE	X									X	X	X
	FILTER DIFFERENTIAL PRESSURE TRANSDUCER	X									X	X	X
4	TEMPERATURE AIR STATIC PRESSURE TRANSDUCER	X									X	X	X
	TEMPERATURE AIR TEMPERATURE	X									X	X	X
5	SUPPLY DUCT STATIC PRESSURE (ADJUSTABLE)				X						X	X	X
	COOLING COIL LEAVING TEMPERATURE SENSOR										X	X	X
6	SUPPLY FAN LOW PRESSURE STATIC PRESSURE SWITCH				X						X	X	X
	SUPPLY FAN SPEED CONTROL					X					X	X	X
7	SUPPLY FAN VFD STATUS				X						X	X	X
	SUPPLY FAN VFD FAILURE						X				X	X	X
8	SUPPLY FAN SPEED CONTROL							X			X	X	X
	SUPPLY FAN LOW PRESSURE STATIC PRESSURE SWITCH				X						X	X	X
9	SUPPLY FAN VFD FAILURE				X						X	X	X
	DISCHARGE AIR TEMPERATURE	X									X	X	X
10	DISCHARGE AIR HUMIDITY	X									X	X	X
	SUPPLY AIR FLOW	X									X	X	X
11	DISCHARGE AIR FLOW	X									X	X	X
	DISCHARGE AIR PRESSURE	X									X	X	X
12	DISCHARGE AIR TEMPERATURE	X									X	X	X
	DISCHARGE AIR HUMIDITY	X									X	X	X
13	DISCHARGE AIR PRESSURE	X									X	X	X
	DISCHARGE AIR TEMPERATURE	X									X	X	X
14	DISCHARGE AIR HUMIDITY	X									X	X	X
	DISCHARGE AIR PRESSURE	X									X	X	X
15	DISCHARGE AIR TEMPERATURE	X									X	X	X
	DISCHARGE AIR HUMIDITY	X									X	X	X
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	DISCHARGE AIR TEMPERATURE	X									X	X	X
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	DISCHARGE AIR HUMIDITY	X									X	X	X
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	DISCHARGE AIR PRESSURE	X									X	X	X
84	DISCHARGE AIR TEMPERATURE	X									X	X	X
	DISCHARGE AIR HUMIDITY	X									X	X	X
85	DISCHARGE AIR PRESSURE	X											

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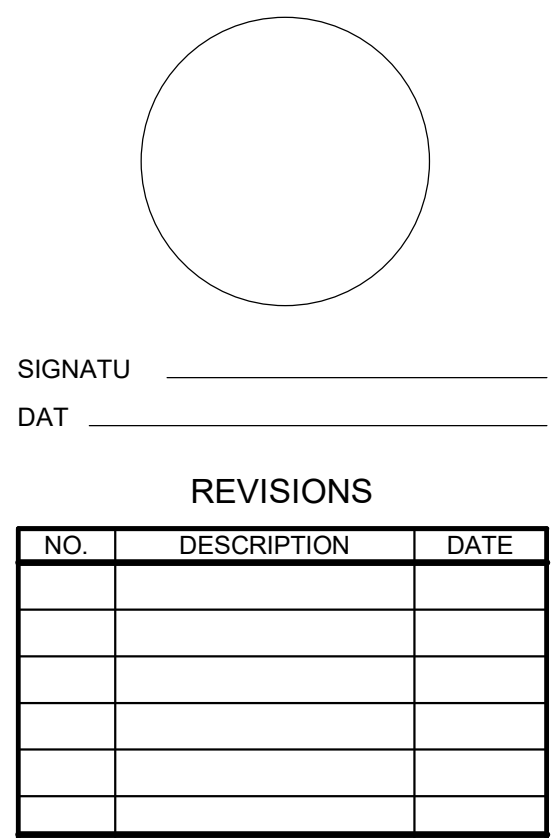
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[illegible]

2. SMOKE DETECTORS SHALL HAVE STAND ALONE RELAYS (HTR'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

1. ALL RELAYS SHALL BE GOLD CONTACT.
2. PLOT 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 VFDs OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
4. SUPPLY FAN VFD IS CONTROLLED BY SPACE TEMPERATURE.
5. RETURN FAN VFD 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% CIRCULATED IN NIGHT SET BACK MODE.



GYM RTU CONTROL
DIAGRAM

M-303
ISSUED FOR BIDDING

CONTROL POINT SUMMARY FOR VAV UNIT (TYPICAL)																				
CONTROL POINTS	DDC HARD WIRED POINTS				BAS APPLICATION	ALARMING SCENARIOS	ALARM PRIORITIES	ALARM CRITICAL NOTES												
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)					TYPICAL RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN INSPIRED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL
ZONE SPACE TEMPERATURE			x	x																
ZONE SPACE TEMPERATURE SET POINT			x	x																
SUPPLY AIR DISCHARGE TEMPERATURE			x	x																
PRIMARY AIR DAMPER CONTROL			x	x																
VENTILATION AIR FLOW (CFM)			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.

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

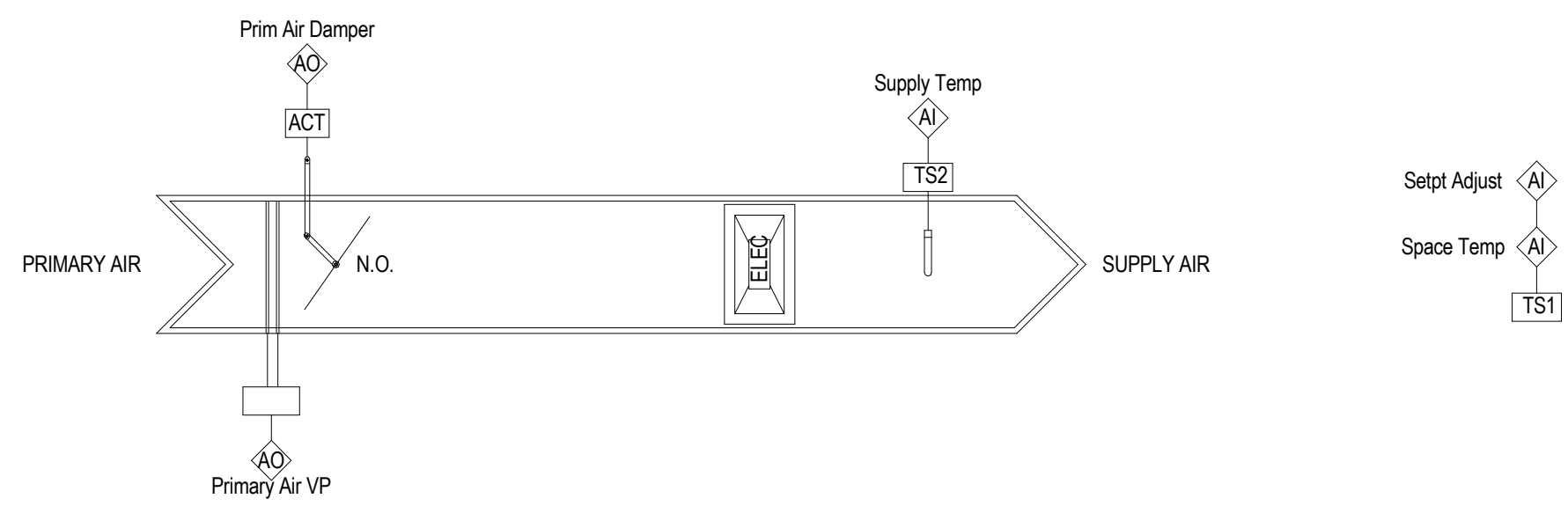
THE VAV CONTROLLER SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE HEATING SETPOINT TO DETERMINE THE REQUESTED HEATING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED HEATING CAPACITY.

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 OF THAT IN THE 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.



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.

VAV BOX CONTROL DIAGRAM

[illegible]

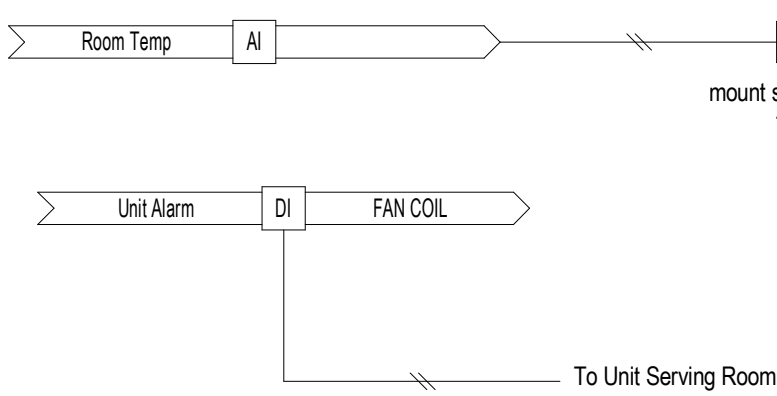
CONTROL POINT SUMMARY FOR HEATES (TYPICAL)									
CONTROL POINTS	DOE HARD-WIRED POINTS		BMS APPLICATION	ALARMING SCHEDULES	ALARM PRIORITIES		NOTES		
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A. Provide a space temperature sensor to monitor the temperature of the room through the BAS.

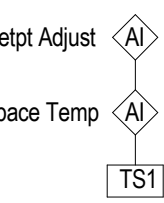
A. Provide a space temperature sensor to monitor the temperature of the room through the BAS.

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: IT ROOM MONITORING



TYPICAL FOR CABINET HEATER

ATTENTION:
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MISC.

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DISTRICT**

**ADDITION &
RENOVATION
NEIL
ARMSTRONG**

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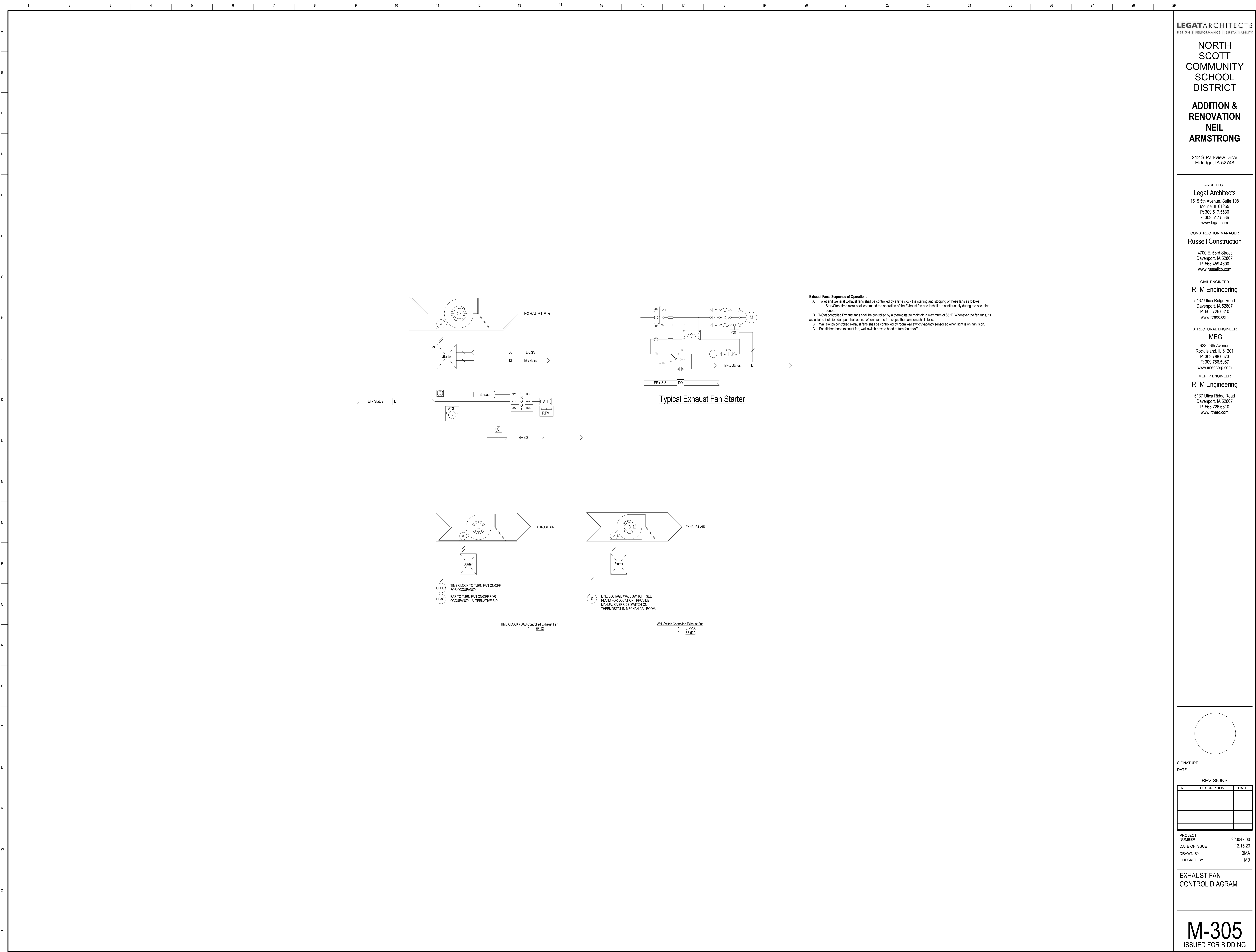
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PROJECT NUMBER	223047.00
DATE OF ISSUE	12.15.23
DRAWN BY	BMA
CHECKED BY	MB

VAV BOX, ELECTRIC HEATER AND MINI SPLIT CONTROL DIAGRAM

M-304
ISSUED FOR BIDDING



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NORTH SCOTT COMMUNITY SCHOOL DISTRICT
ADDITION & RENOVATION
NEIL ARMSTRONG
212 S Parkview Drive
Eldridge, IA 52748

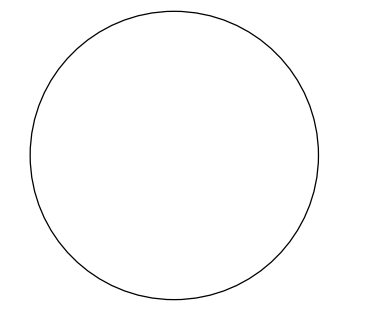
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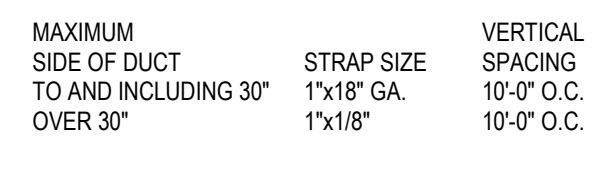

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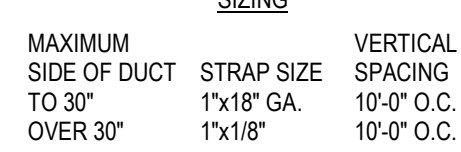
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EXHAUST FAN CONTROL DIAGRAM

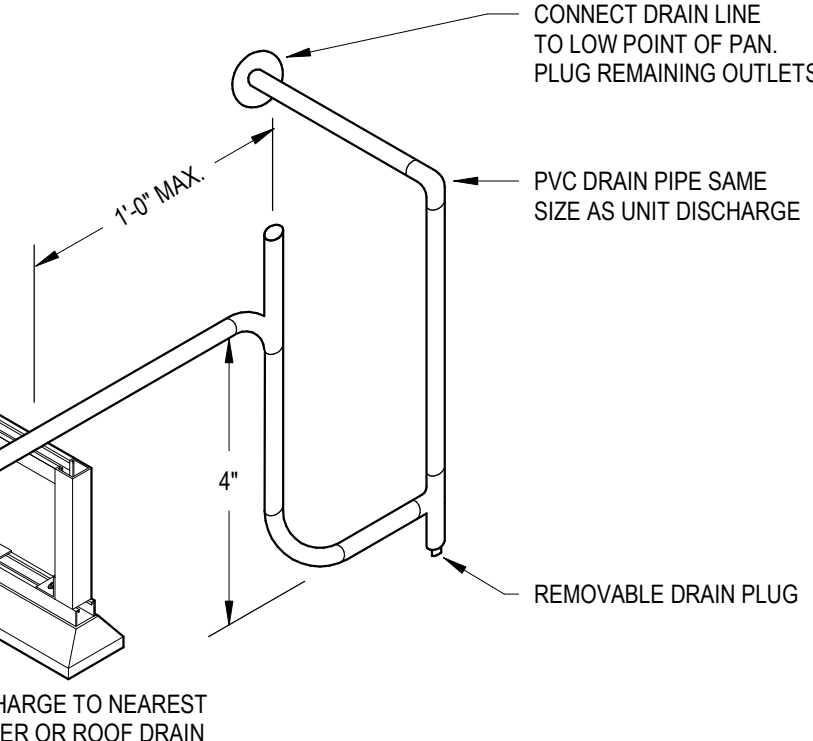
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ISSUED FOR BIDDING



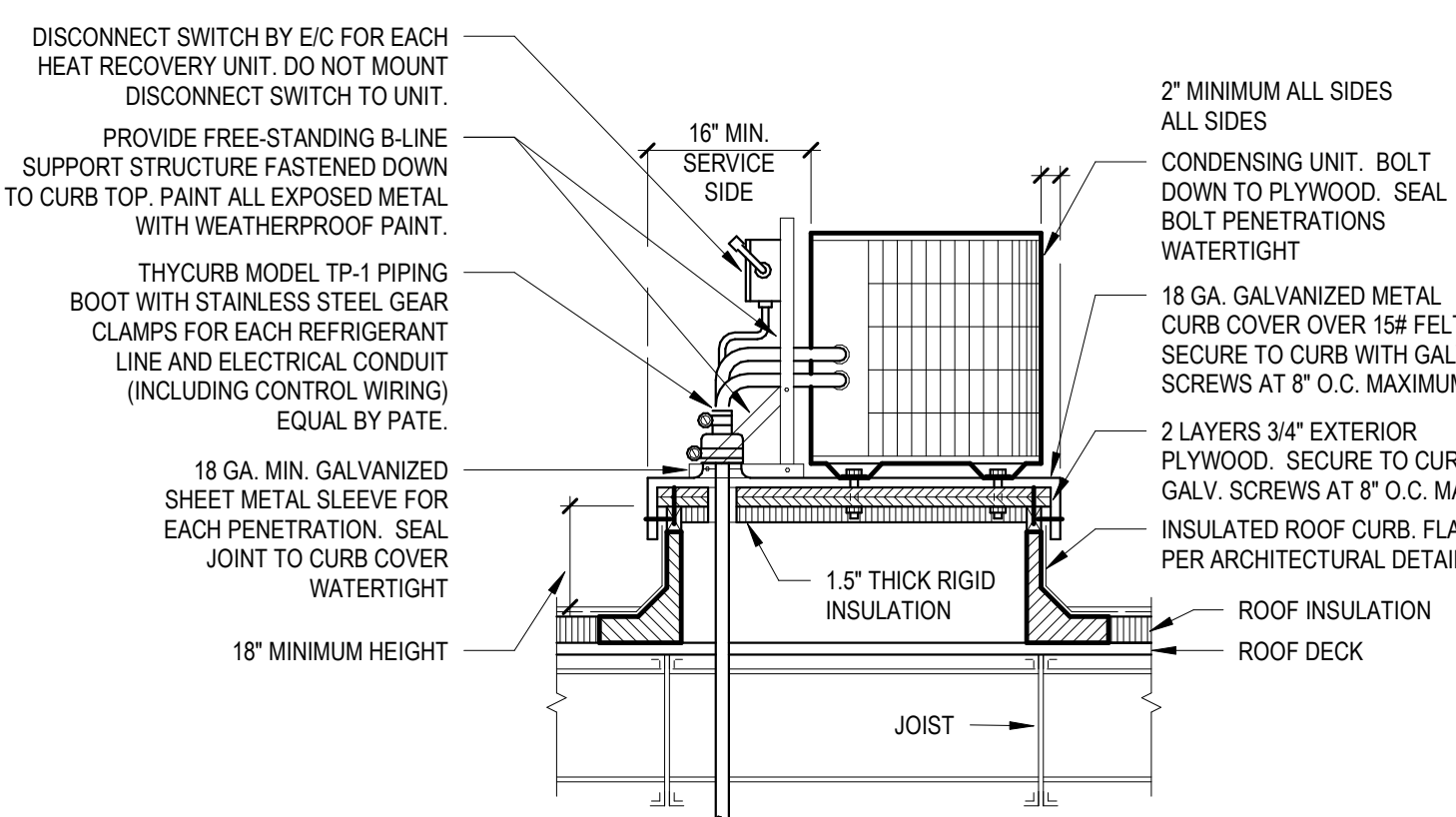
DUCT SUPPORT DETAIL



6 INLINE EXHAUSTER DETAIL



NOT TO SCALE

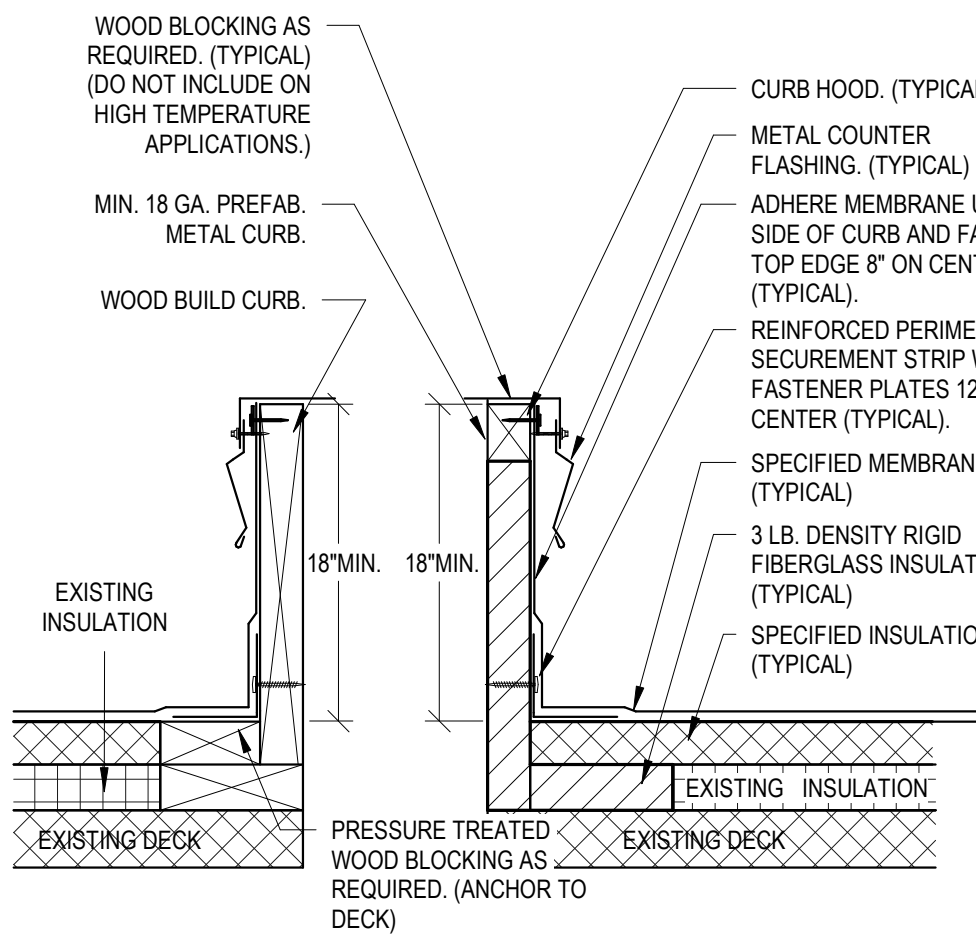


ROOF MOUNT CONDENSING UNIT DETAIL

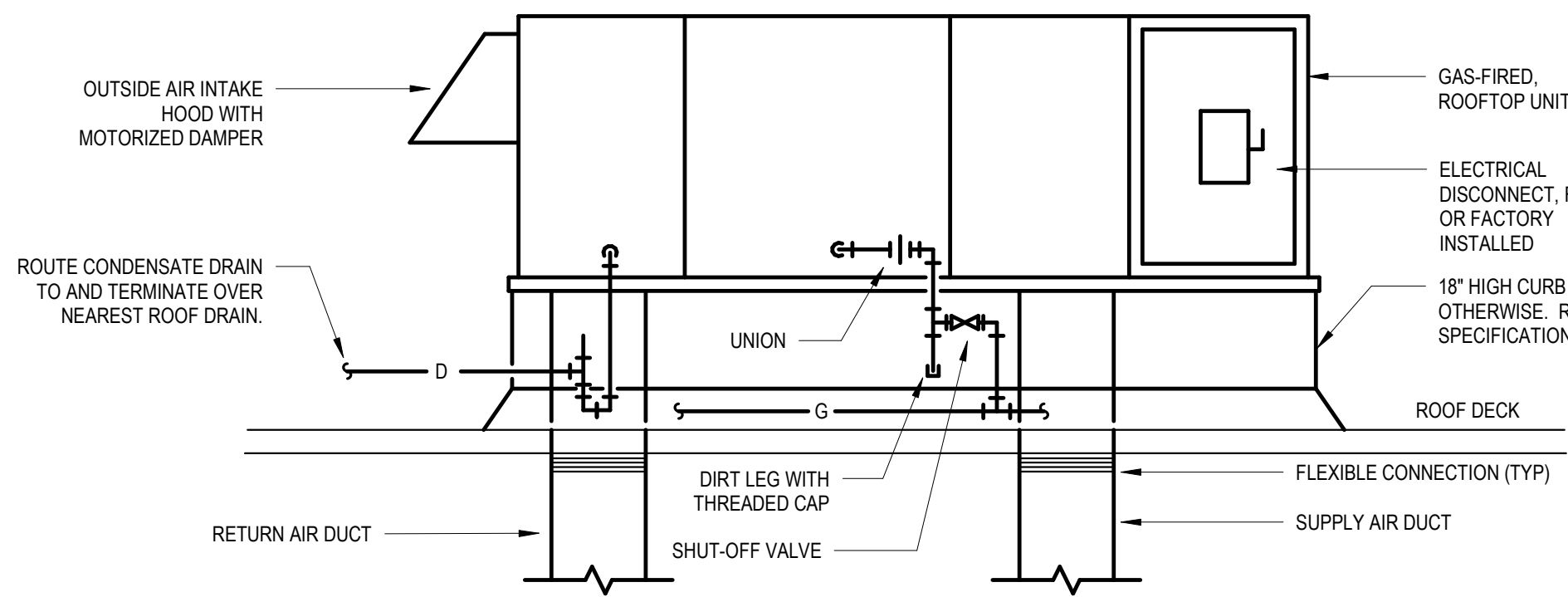
WEATHER CAP SCHEDULE						
TAG	TYPE	CFM	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
CAP-1	EXHAUST	70	7	GREENHECK	GRSR-8	ALL
CAP-1	EXHAUST	70	7	GREENHECK	GRSR-8	ALL
CAP-2	DRYER EXHAUST	220	9	GREENHECK	GRSR-8	ALL

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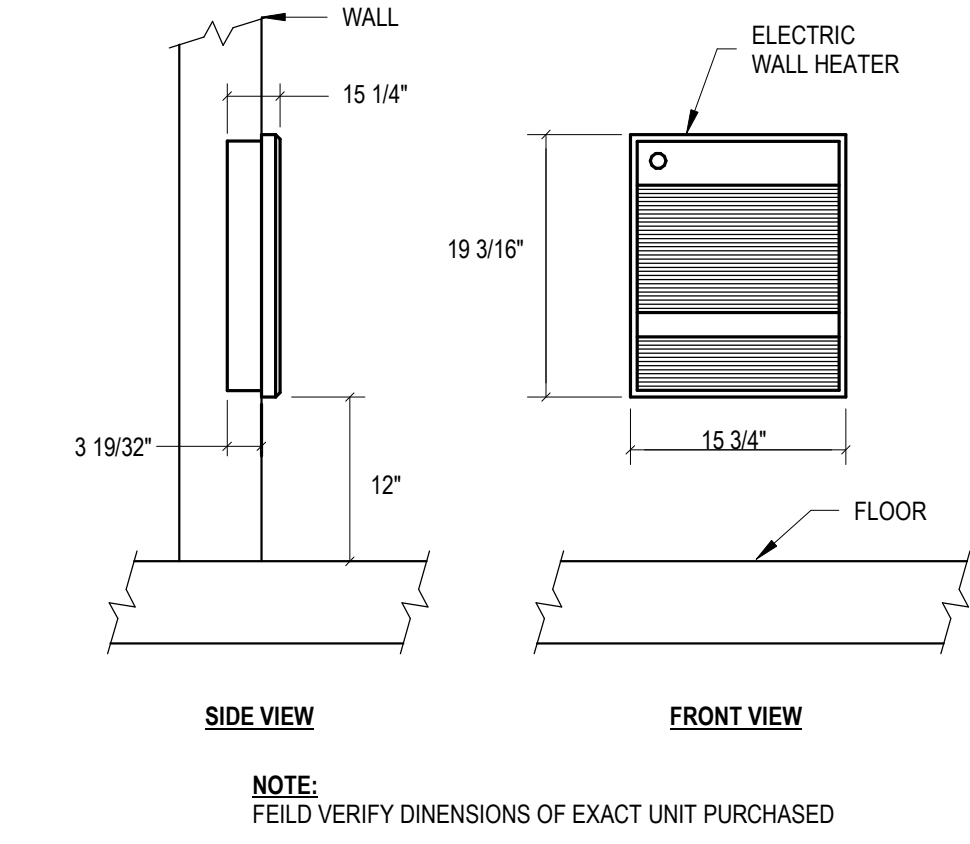
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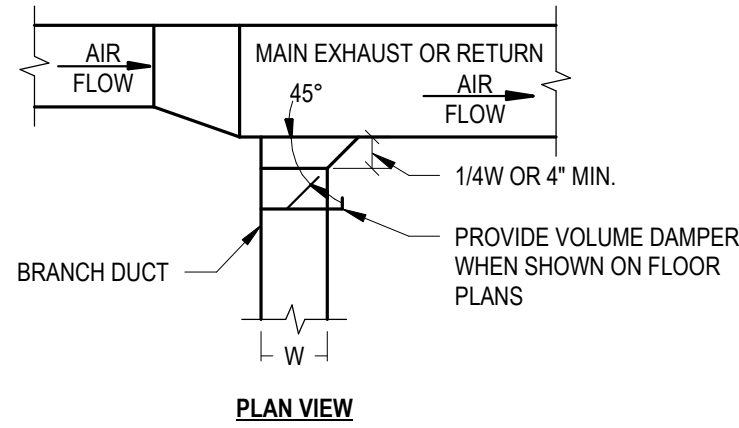
1 ROOF CURB DTAIL (SINGLE PLY MEMBRANE) DETAIL
M-500 NOT TO SCALE



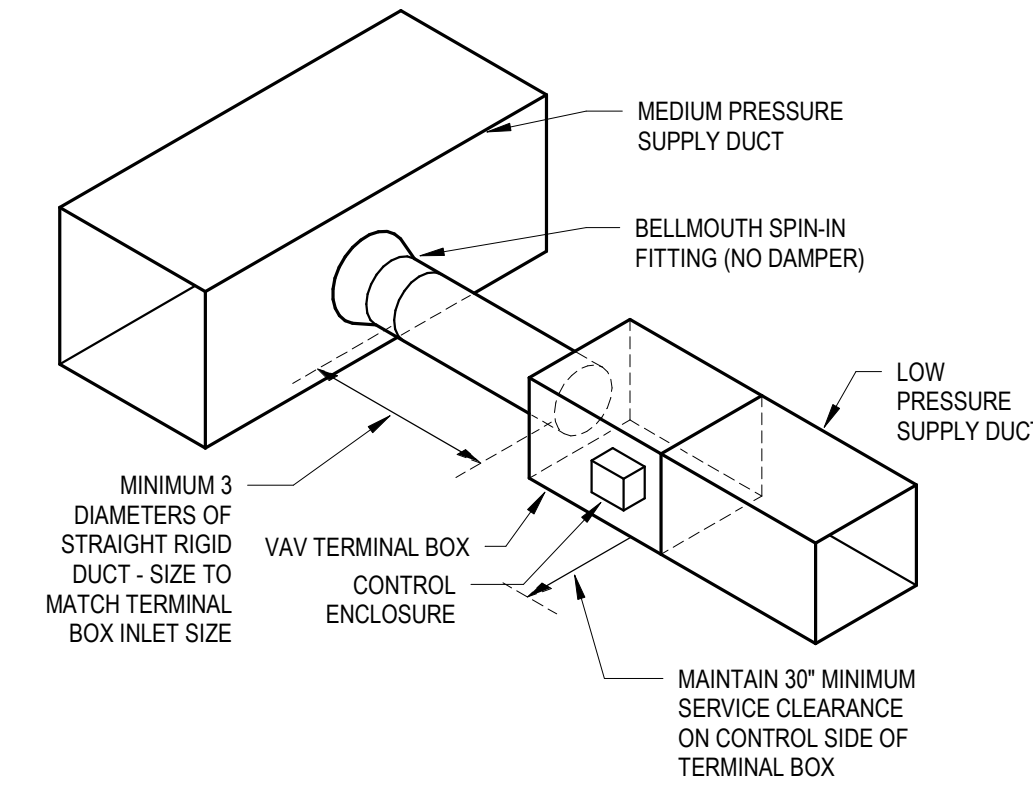
2 ROOFTOP UNIT DETAIL
M-500 NTS



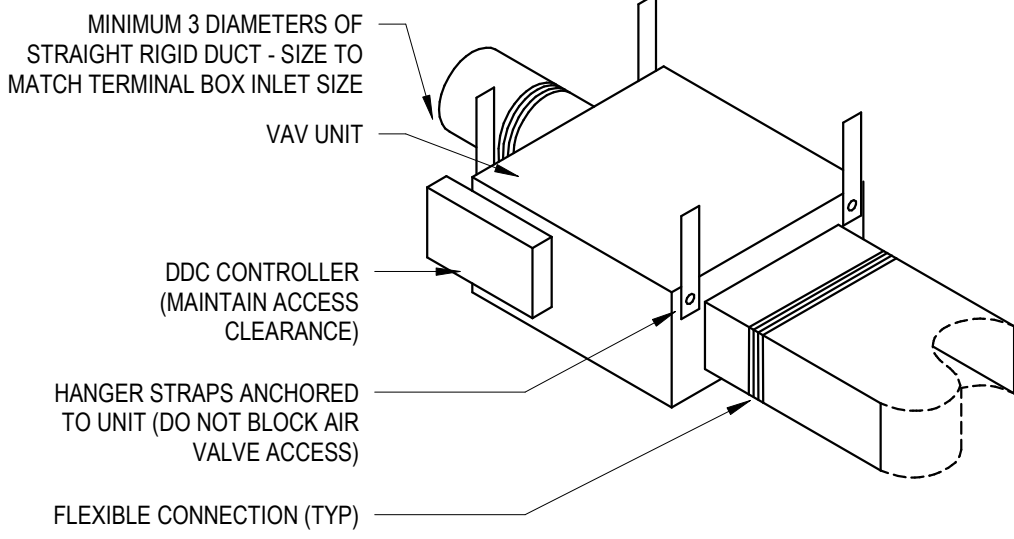
3 ELECTRIC WALL HEATER (RECESSED)
M-500 NOT TO SCALE



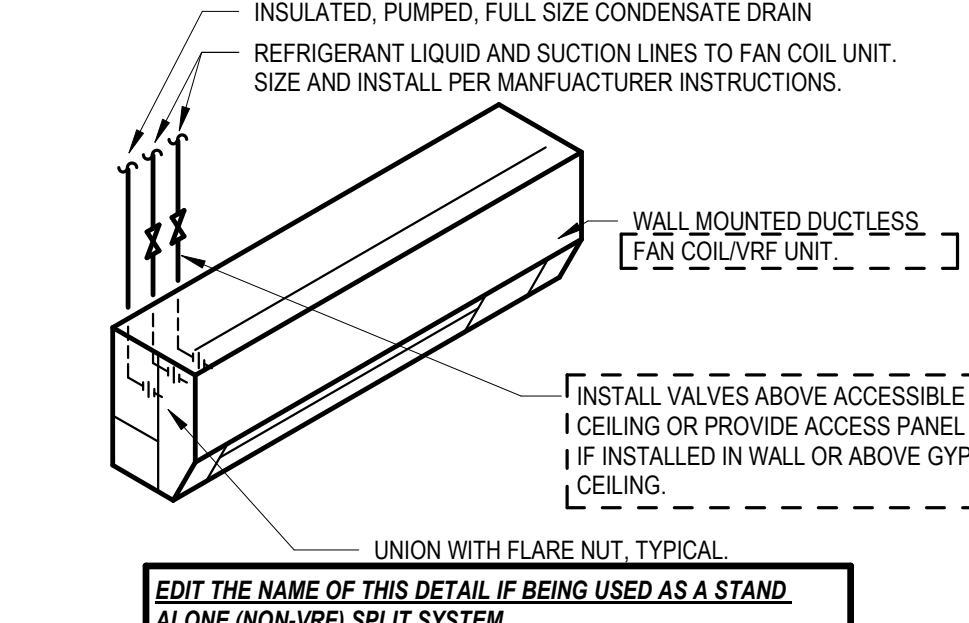
4 EXHAUST OR RETURN BRANCH DUCTOWRK DETAIL
M-500 NOT TO SCALE



5 VAV TERMINAL BOX INSTALLATION
M-500 NTS

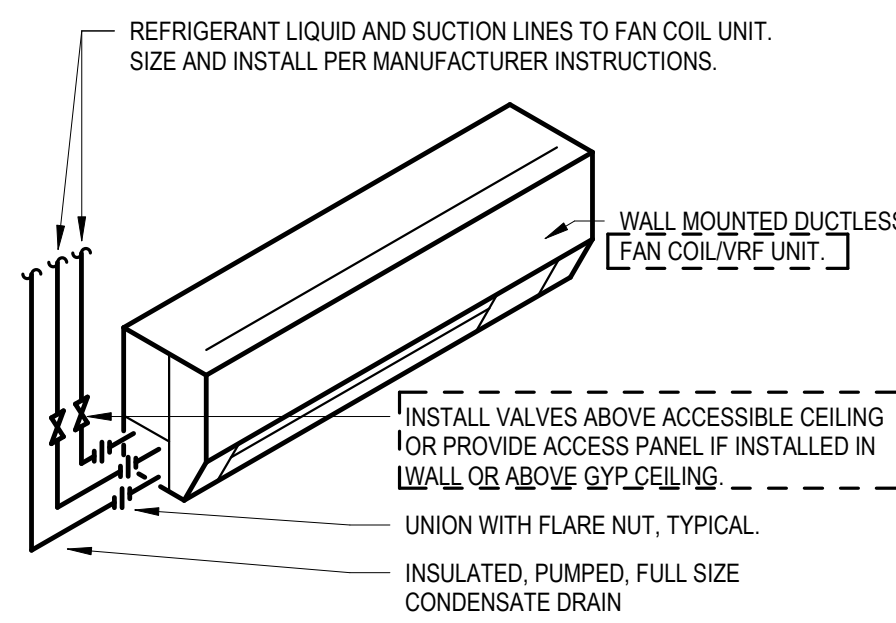


6 VAV UNIT DETAIL
M-500 NTS

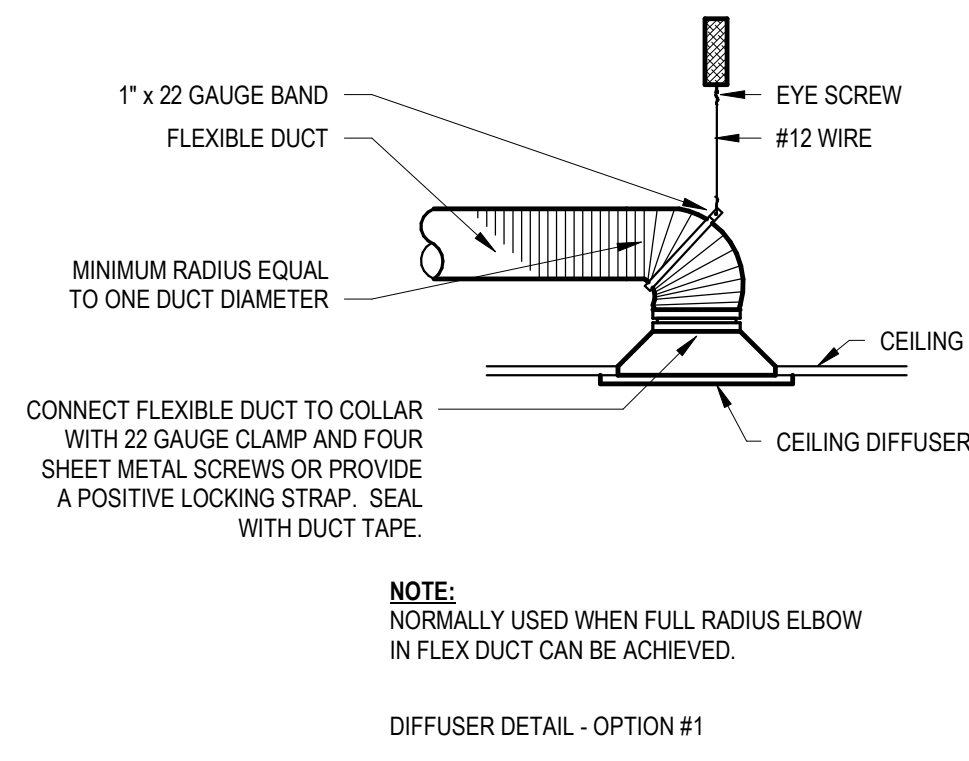


NOTE: INSTALL CONDENSATE PIPING PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS. REFER TO MANUFACTURERS LISTED CONDENSATE PUMP LIFT CAPABILITIES AND INSTALL THE CONDENSATE PIPING AS HIGH AS POSSIBLE AND WITHIN THE LIMITS GIVEN BY THE MANUFACTURER.
SEE PLANS FOR UNIT MOUNT HEIGHTS. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES. PROVIDE WALL MOUNTING BRACKETS AS REQUIRED. INSTALL PER MANUFACTURER INSTRUCTIONS.

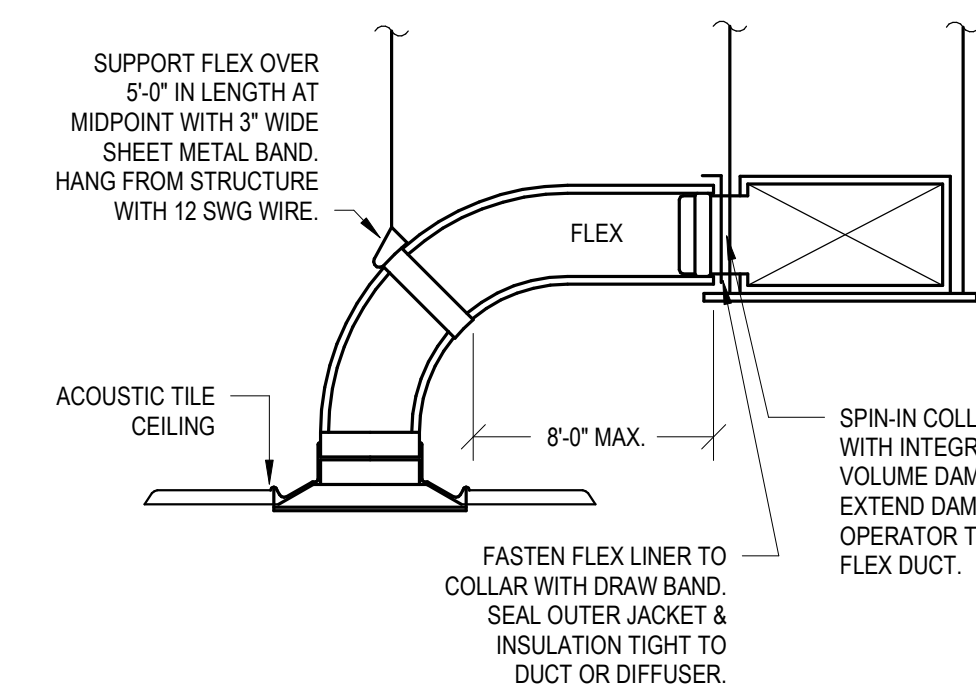
7 VRF WALL MOUNT DUCTLESS UNIT DETAIL
M-500 NOT TO SCALE



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8 TYPICAL DIFFUSER AND GRILLE CONNECTIONS
M-500 1/2" = 1'-0"



9 CEILING DIFFUSER TO DUCT CONNECTION DETAIL
M-500 NOT TO SCALE

LEGAT ARCHITECTS
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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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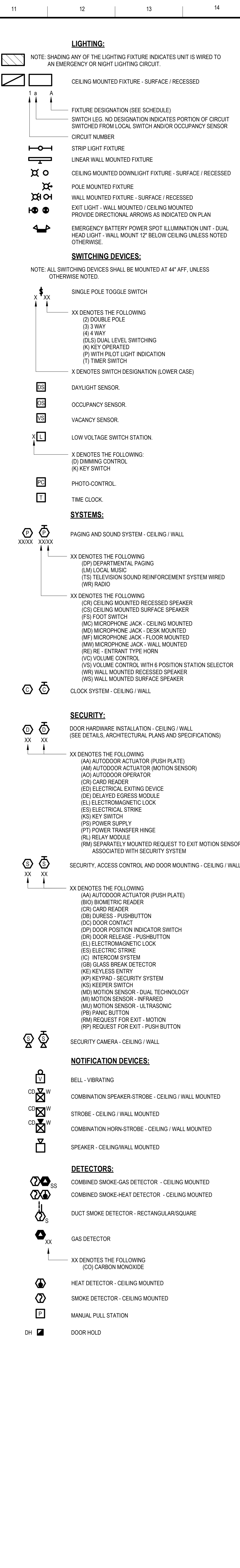
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CHECKED BY MB		
MECHANICAL DETAILS		
M-500		
ISSUED FOR BIDDING		



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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 CONTRACTOR SHALL OBTAIN COPIES OF THE SPECIFICATIONS AND DRAWINGS FROM THE BASIS OF THE CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED. EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH IT IS 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 CONTRACT DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO ENSURE THAT ALL WIRING OUTLETS, ALARM STATION CONTROLS, AND POWER WIRING IS OBTAINED. HE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM 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 MANUFACTURERS LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONTRACT AMPOACITY 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 STUDIOS AS NEEDED.

11.

ALL RECEPTABLES, TELEPHONE, AND DATA OUTLETS SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL SERVICES SHALL BE NEW UNLESS OTHERWISE NOTED.

12.

ALL FIRE ALARM SIGNAL DEVICES SHALL BE MOUNTED AT 8' 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 E.C. SECURITY CABLES SHALL BE PROVIDED BY NORTH SCHOOL DISTRICT. INSTALLATION BY E.C. COORDINATE ALL CAMERA LOCATIONS WITH SCHOOL DISTRICT.

15.

ALL DATA SECURITY: ADD ACCESS POINT CABLING SHALL BE PER 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. PROVIDE PLUNER RATED CABLING FOR LOW VOLTAGE SYSTEM.

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 CONTRACTORS RESPONSIBILITY TO TURN OVER TO THE BUILDING MANAGER AN AS-BUILT DRAWING IN REPRODUCIBLE FORM. THESE DRAWINGS DO NOT HAVE TO BE MADE FROM SCATCH. THE ENGINEERS REFLECTED CABLE AND ELECTRICAL/TELEPHONE PLANS MAY BE USED AS BACKGROUND WITH THE ACTUAL OPERATING CHANGES ADDED.

18.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL .8X30 AND 3/4" X3/4" 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 NEC AND THE LATEST REQUIREMENTS OF ALL CODES AND REGULATIONS.

20.

ALL EXTERIOR RECEPTABLES 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 OR RECORD, AS STATED IN SPECIFICATION D-11. THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM:

23.

ALL EXPOSED ELECTRICAL CABLE, CABLE, AND JUNCTION BOXES INSTALLED ON CEILING CEILINGS SHALL BE PAINTED. MC CABLE AND FLEXIBLE CONDUIT SHALL BE LIMITED IN EXPOSED OPEN CEILING LOCATIONS TO A 4'-0" MAXIMUM LENGTH FOR INDIVIDUAL WHIPS FOR EQUIPMENT CONNECTIONS. INSTALL ALL CONDUIT, CABLE, AND JUNCTION BOXES IN A NEW 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 RECEPTABLE 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 ADDRESS UNINTERRUPTED SAFE OPERATION OF AREAS THAT ARE AFFECTED BY DEMO & ADDITION OF PROPOSED SYSTEMS AT ALL TIMES. INCLUDE THE NECESSARY WORK TO ACCOMPLISH THIS A COORDINATE PHASING ACCORDINGLY.

2.

CONFIRM WITH THE MANUFACTURERS OF EXISTING EQUIPMENT THAT IT IS TO BE REMOVED 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 WHP, CLOCKS, FIRE ALARM NOTIFICATION AND DETECTION DEVICES, SECURITY CAMERAS, AND SECURITY EQUIPMENT (LIGHT FIXTURES, SWITCHES, 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 RENSTAL EXISTING WORK TO REMAIN, AS SHOWN ON THE DRAWINGS. EXISTING MATERIALS AND EQUIPMENT SHALL BE REUSED ONLY WHERE INDICATED.

8.

SOME EXCEPTIONS MAY ARISE WHENEVER EQUIPMENT, EITHER IN EXISTING AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE. REQUIRE THAT FEEDERS, SIGNAL, CONDUITS, CONDUITS, BOXES, ETC. SERVING SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THOSE ELECTRICAL, FEEDERS, WIRING, SIGNAL CONDUITS, CONDUITS, BOXES, ETC. SHALL BE REMOVED & RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY SIGNAL 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 BOX, CONTRACTOR SHALL MARK THE AFFECTED BREAKERS IN THEIR PANEL BOXES AS "SPARE". INSTALL NEW KNOCK-OUT BLANK INSIDE PANEL BOX.

19.

VERIFY THAT REMOVAL OF DEVICES IN RENOVATED AREAS 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.

6" X 6" X 4" DEEP RECESSED JUNCTION BOX WITH BLANK COVER PLATE. MOUNT ABOVE ACCESSIBLE CEILING OVER DOOR BY E.C.

34°C. AND SECURITY CABLING AND TERMINATIONS TO DIFF BY E.C.

12°C. EMT AND DOOR CABLING BY E.C.

12" EMT AND CABLING FOR CARD READER CABLE BY E.C. DOOR TYPICAL.

12" EMT FOR FUTURE CO-AX CABLE BY E.C.

2 GANG X 2" DEEP RECESSED PLASTIC BACK BOX WITH CARD READER BY E.C.

LOCK SIDE

HINGE SIDE

NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS, BOXES, AND SECURITY CABLING AND EQUIPMENT FOR CARD READER SYSTEM PER DISTRICT STANDARD.

2. DOOR POSITION SWITCH, MAGNET, ELECTRIC DOOR STRIKE BY OTHERS. WIRED BY E.C.

3. SEE ARCHITECTURAL DOOR SCHEDULE FOR DOORS REQUIRING SECURITY DEVICES.

DOUBLE DOOR SECURITY ROUGH-IN DETAIL

1"=1'-0"

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DATE _____	
REVISIONS	
DESCRIPTION	DATE
PROJECT NUMBER	223047.00
DATE OF ISSUE	12.15.23
DESIGNED BY	GI
CHECKED BY	NI
ELECTRICAL GENERAL NOTES AND SYMBOLS	
E-000 ISSUED FOR 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 UNLESS NOTED OTHERWISE.

KEYNOTES

1. EC TO REMOVE ALL ELECTRICAL DEVICES AND ALL ASSOCIATED FEEDERS, INCLUDING JUNCTION BOXES, RECEPTACLES, SWITCHES, AND LIGHTING FIXTURES, ETC.
2. REMOVE CONDUIT AND WIRE FOR EXISTING GARAGE BUILDING TO BE DEMOLISHED BACK TO SOURCE.
3. REFER TO SCOPE NOTE ON THIS SHEET. RELOCATE EXISTING TELEPHONE SERVICE. EXTEND CONDUIT AND WIRE NECESSARY FOR THE NEW BUILDING ADDITION.
4. MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
5. PLUMBING EQUIPMENT IS EXISTING TO REMAIN. MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
6. PLUMBING EQUIPMENT IS BEING REPLACED WITH NEW. REUSE AND EXTEND WIRE AND CONDUIT AS NECESSARY FOR NEW EQUIPMENT.
7. MECHANICAL EQUIPMENT IS EXISTING TO BE DEMOLISHED. REMOVE ALL WIRE AND CONDUIT BACK TO SOURCE.

SCOPE NOTE:

EC TO COORDINATE AND FIELD VERIFY IF EXISTING TELEPHONE ENTRANCE SERVICE WILL BE AFFECTED BY THE BUILDING ADDITION. EXISTING DRAWINGS SHOW TELEPHONE LINE AT THE WEST SIDE OF THE BUILDING. IF TELEPHONE SERVICE ENTRANCE WILL BE AFFECTED, IT SHOULD BE RELOCATED AS SHOWN ON DRAWING. EC TO PROVIDE SEPARATE PRICING FOR THIS SCOPE. NO CHANGE ORDERS WILL BE ACCEPTED.

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REVISIONS

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223047.00

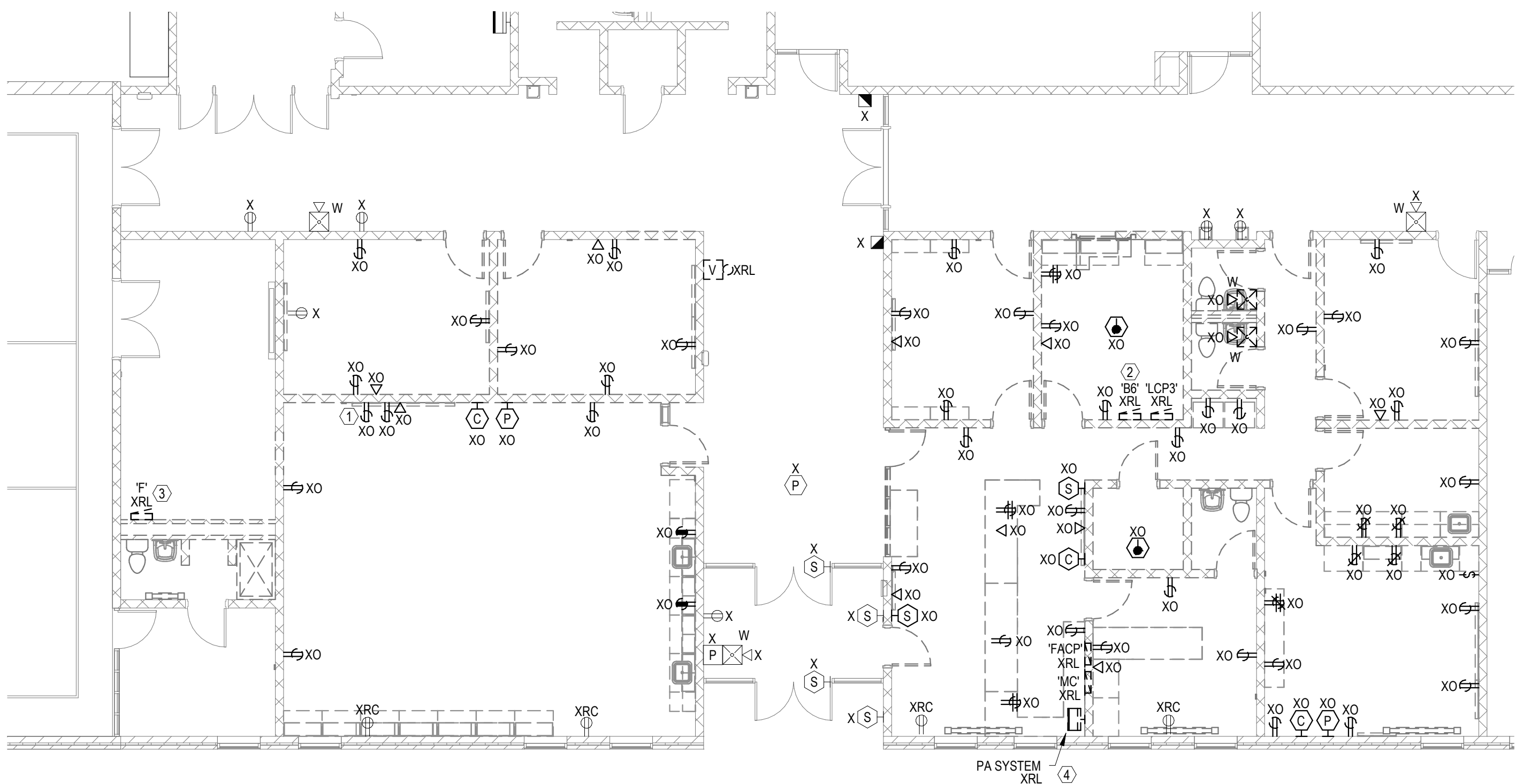
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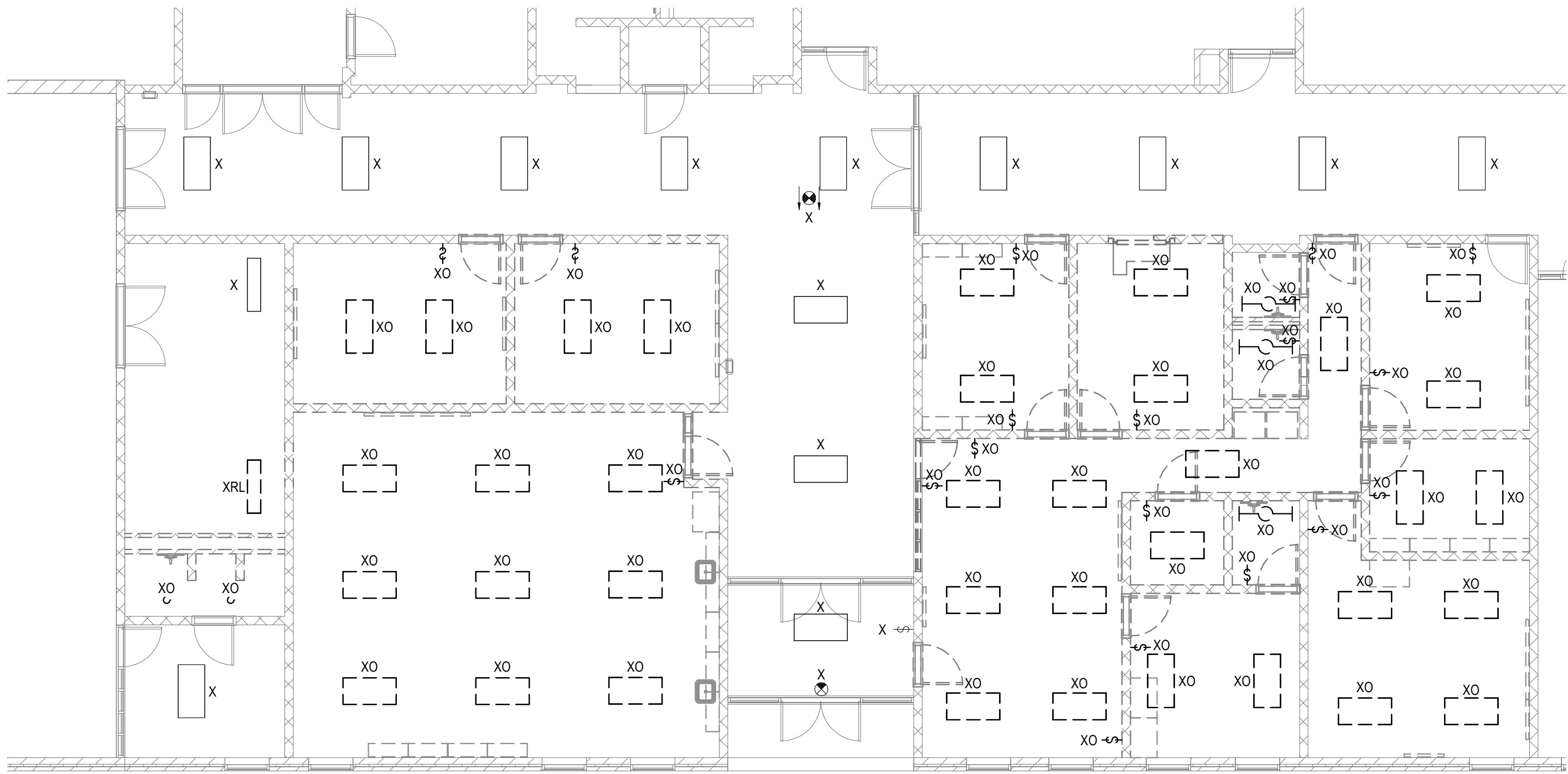
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NI

ELECTRICAL FIRST FLOOR DEMOLITION PLANS - MODULE A

ED-101A
ISSUED FOR BIDDING



1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN - MODULE B
ED-101B 1/8" = 1'-0"



2 ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN - MODULE B
ED-101B 1/8" = 1'-0"

- GENERAL NOTES:**
- REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-00.
 - REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
 - ALL DEVICES ARE SHOWN EXISTING UNLESS NOTED OTHERWISE.
- KEYNOTES**
- WALL MOUNTED PROJECTOR TO BE REMOVED AND RETURNED TO THE DISTRICT.
 - RELOCATE ALL EXISTING TO REMAIN CIRCUITS IN PANEL 86 WHICH WILL BE RELOCATED FROM DEMOLISHED WORKROOM TO NEW LOUNGE 39. MODIFY/EXTEND BRANCH CIRCUIT WIRING AS NECESSARY. REFER TO SHEET E-101B FOR NEW PANEL LOCATION.
 - RELOCATE ALL EXISTING TO REMAIN CIRCUITS IN PANEL 1" WHICH WILL BE RELOCATED TO NEW WALL IN STORAGE ROOM 28. MODIFY/EXTEND BRANCH CIRCUIT WIRING AS NECESSARY. REFER TO SHEET E-101B FOR NEW PANEL LOCATION.
 - EXISTING PA SYSTEM TO BE RELOCATED TO ROOM FIBER OPTIC 22. EXTEND CABLES & CONDUITS AS NECESSARY.

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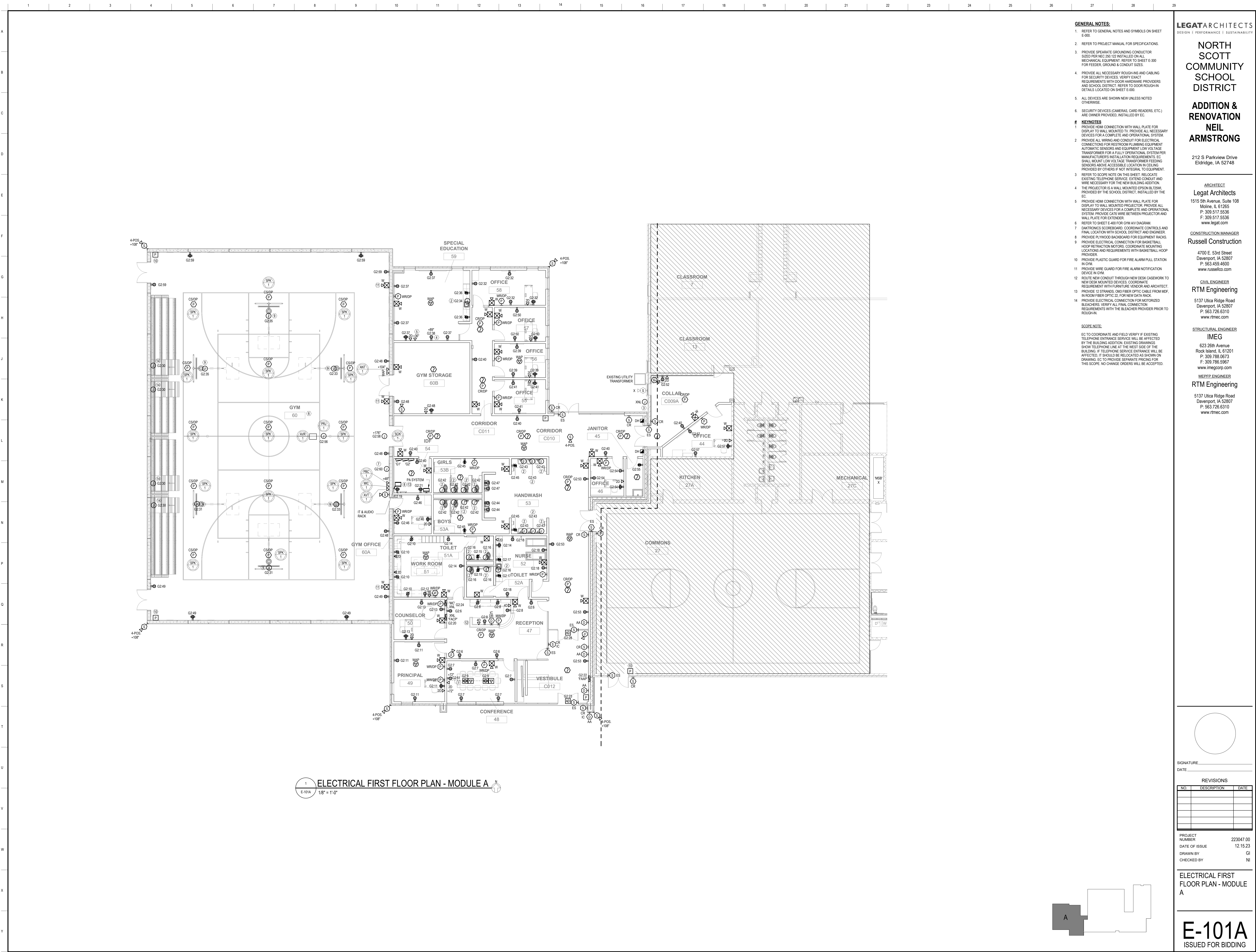
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NO.	DESCRIPTION	DATE

PROJECT NUMBER 223047.00
DATE OF ISSUE 12.15.23
DRAWN BY GI
CHECKED BY NI

ELECTRICAL FIRST
FLOOR DEMOLITION
PLANS - MODULE B

ED-101B
ISSUED FOR 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 SIZES 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 SECURITY DEVICES. VERIFY EXACT REQUIREMENTS WITH DOOR-HARDWARE PROVIDERS AND SCHOOL DISTRICT. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000.
 5. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
 6. SECURITY DEVICES (CAMERAS, CARD READERS, ETC.) ARE OWNER PROVIDED, INSTALLED BY EC.

- KEYNOTES:**
1. PROVIDE HDMI CONNECTION WITH WALL PLATE FOR DISPLAY TO WALL MOUNTED TV. PROVIDE ALL NECESSARY DEVICES FOR A COMPLETE AND OPERATIONAL SYSTEM.
 2. PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTIONS FOR RESTROOM PLUMBING EQUIPMENT. PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTIONS FOR RESTROOM PLUMBING EQUIPMENT. PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTIONS FOR RESTROOM PLUMBING EQUIPMENT. PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTIONS FOR RESTROOM PLUMBING EQUIPMENT.
 3. REFER TO SCOPE NOTE ON THIS SHEET. RELOCATE EXISTING TELEPHONE SERVICE. EXTEND CONDUIT AND WIRE NECESSARY FOR THE NEW BUILDING ADDITION.
 4. THE PROJECTOR IS A WALL MOUNTED EPSON 16250W. PROVIDED BY THE SCHOOL DISTRICT, INSTALLED BY THE EC.
 5. PROVIDE HDMI CONNECTION WITH WALL PLATE FOR DISPLAY TO WALL MOUNTED PROJECTOR. PROVIDE ALL NECESSARY DEVICES FOR A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE CAT5 WIRE BETWEEN PROJECTOR AND WALL PLATE FOR EXTENDER.
 6. REFER TO SHEET E-400 FOR GYM AV DIAGRAM.
 7. DAKTRONICS SCOREBOARD. COORDINATE CONTROLS AND FINAL LOCATION WITH SCHOOL DISTRICT AND ENGINEER.
 8. PROVIDE PLYWOOD BACKBOARD FOR EQUIPMENT RACKS.
 9. PROVIDE ELECTRICAL CONNECTION FOR BASKETBALL HOOP RETRACTION MOTORS. COORDINATE MOUNTING LOCATIONS AND REQUIREMENTS WITH BASKETBALL HOOP PROVIDER.
 10. PROVIDE PLASTIC GUARD FOR FIRE ALARM PULL STATION IN GYM.
 11. PROVIDE WIRE GUARD FOR FIRE ALARM NOTIFICATION DEVICE IN GYM.
 12. ROUTE NEW CONDUIT THROUGH NEW DESK CASEWORK TO NEW DESK MOUNTED DEVICES. COORDINATE REQUIREMENT WITH FURNITURE VENDOR AND ARCHITECT.
 13. PROVIDE 12 STRANDS, OM3 RIBBON FIBER OPTIC CABLE FROM MDF, IN ROOM FIBER OPTIC 22, FOR NEW DATA RACK.
 14. PROVIDE ELECTRICAL CONNECTION FOR MOTORIZED BLEACHERS. VERIFY ALL FINAL CONNECTION REQUIREMENTS WITH THE BLEACHER PROVIDER PRIOR TO ROUGH-IN.

SCOPE NOTE:

EC TO COORDINATE AND FIELD VERIFY IF EXISTING TELEPHONE ENTRANCE SERVICE WILL BE AFFECTED BY THE BUILDING ADDITION. EXISTING DRAWINGS SHOW TELEPHONE LINE AT THE WEST SIDE OF THE BUILDING. IF TELEPHONE SERVICE ENTRANCE WILL BE AFFECTED, IT SHOULD BE RELOCATED AS SHOWN ON DRAWING. EC TO PROVIDE SEPARATE PRICING FOR THIS SCOPE. NO CHANGE ORDERS WILL BE ACCEPTED.

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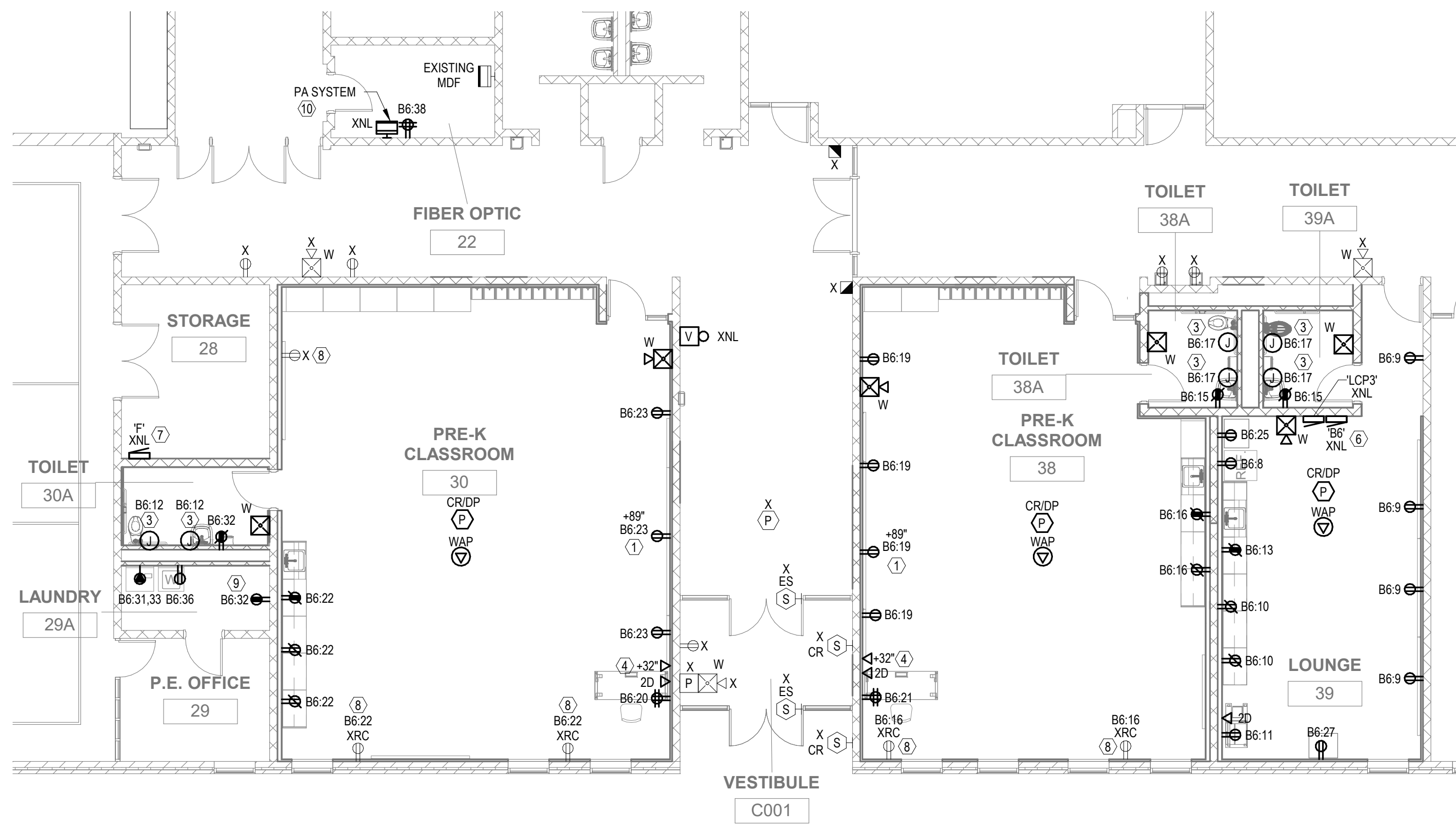
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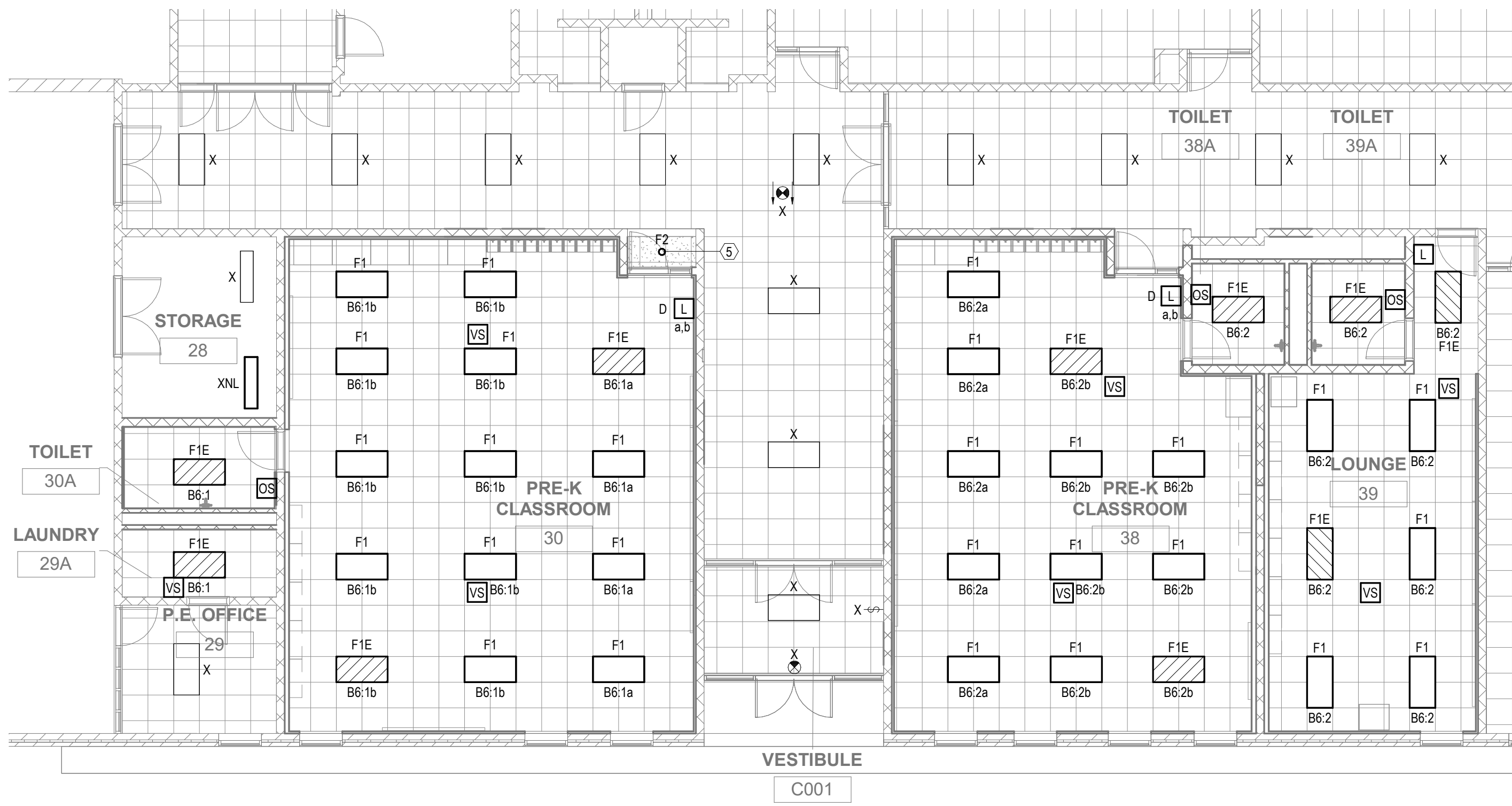
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ELECTRICAL FIRST FLOOR PLAN - MODULE A

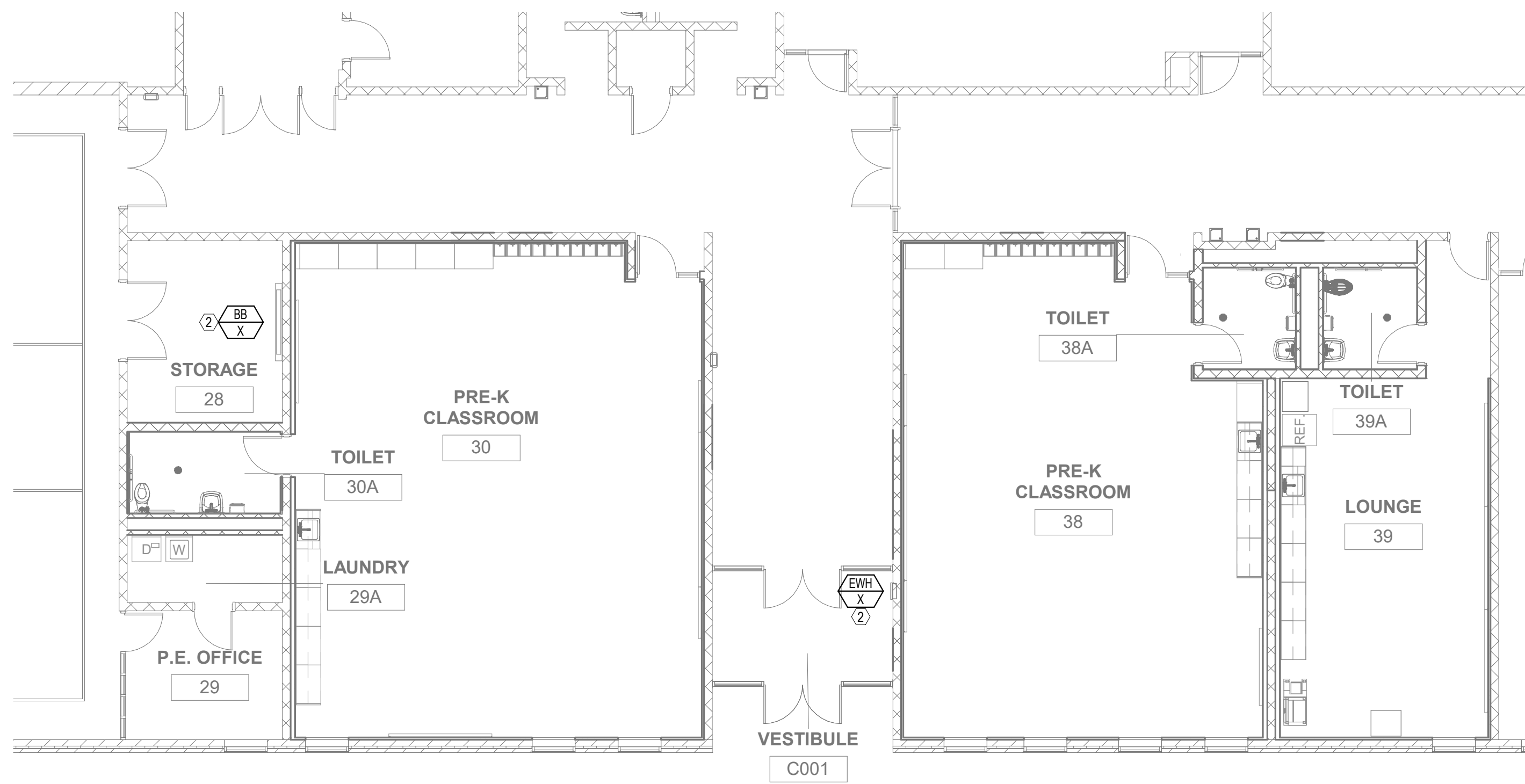
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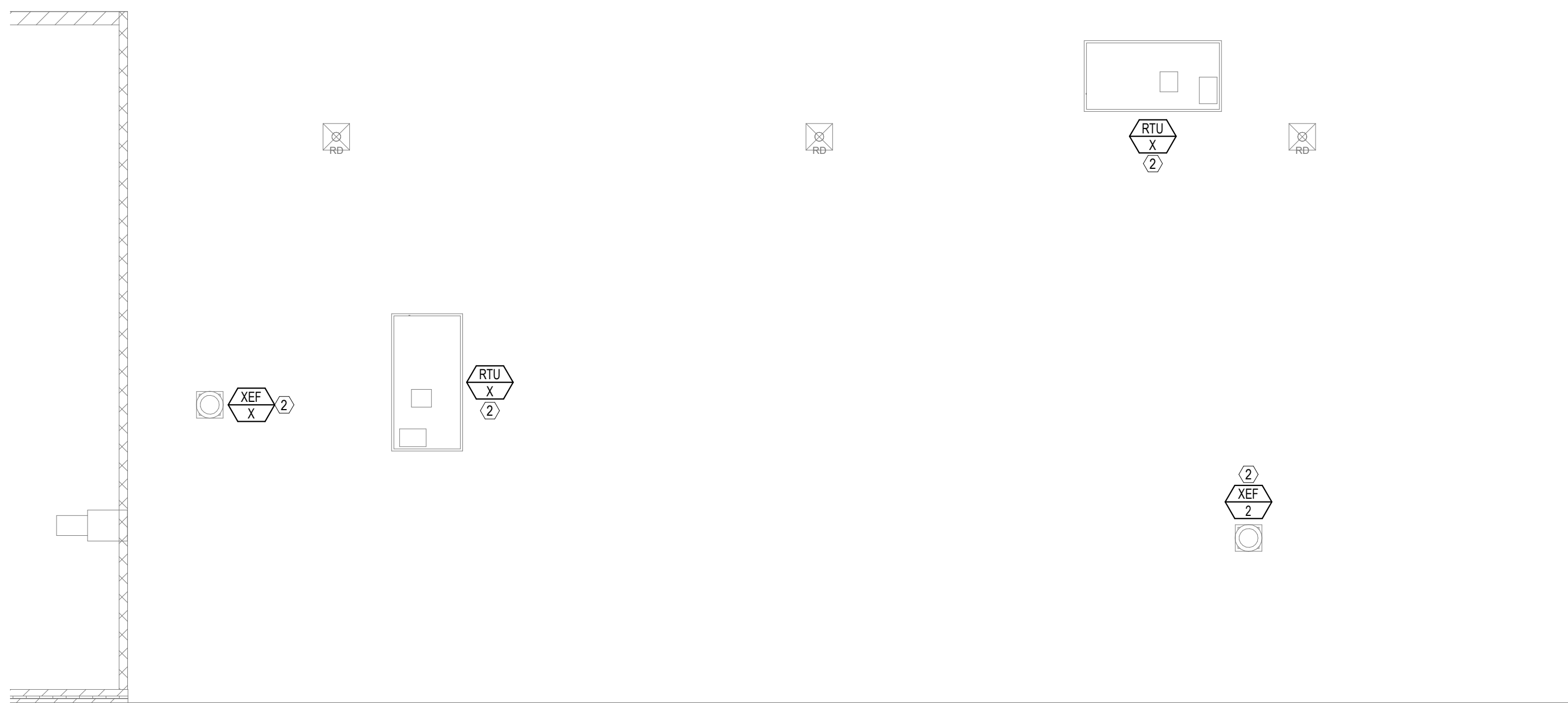
1 ELECTRICAL FIRST FLOOR PLAN - MODULE B
E-101B 1/8" = 1'-0"



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



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



4 ELECTRICAL ROOF PLAN - MODULE B
E-101B 1/8" = 1'-0"

- GENERAL NOTES:**
- REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
 - REFER TO PROJECT MANUAL FOR SPECIFICATIONS.
 - PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
 - PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR SECURITY DEVICES. VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER AND SCHOOL DISTRICT. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000.
 - ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
 - SECURITY DEVICES (CAMERAS, CARD READERS, ETC.) ARE OWNER PROVIDED. INSTALLED BY EC.
 - 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.
 - EMERGENCY FIXTURES TO DIM AND BE CONTROLLED WITH LOCAL FIXTURES. PROVIDE NECESSARY RELAYS TO TURN FIXTURES TO 100% WITH THE LOSS OF POWER.

- # KEYNOTES**
- THE PROJECTOR IS A WALL MOUNTED EPSON BL750W, PROVIDED BY THE SCHOOL DISTRICT, INSTALLED BY THE EC.
 - MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
 - 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.
 - PROVIDE HDMI CONNECTION WITH WALL PLATE FOR DISPLAY TO WALL MOUNTED PROJECTOR. PROVIDE ALL NECESSARY DEVICES FOR A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE CAT5 WIRE BETWEEN PROJECTOR AND WALL PLATE FOR EXTENDER.
 - CONNECT LIGHTING FIXTURE TO EXISTING LIGHTING CIRCUIT AND CONTROLS IN THE SPACE.
 - RELOCATE ALL EXISTING TO REMAIN CIRCUITS IN PANEL 18 WHICH WILL BE RELOCATED FROM DEMOLISHED WORKROOM TO NEW LOUNGE 39. MODIFY/EXTEND BRANCH CIRCUIT WIRING AS NECESSARY. REFER TO SHEET E-101B FOR OLD PANEL LOCATION.
 - RELOCATE ALL EXISTING TO REMAIN CIRCUITS IN PANEL 19 WHICH WILL BE RELOCATED TO NEW WALL IN STORAGE ROOM 28. MODIFY/EXTEND BRANCH CIRCUIT WIRING AS NECESSARY. REFER TO SHEET E-101B FOR OLD PANEL LOCATION.
 - RELOCATE RECEPTACLE TO NEW FURRED OUT WALL.
 - PROVIDE SURFACE MOUNTED RACEWAY FOR NEW RECEPTACLE ON EXISTING WALL.
 - EXISTING PA SYSTEM TO BE RELOCATED TO ROOM FIBER OPTIC 22. EXTEND CABLES & CONDUITS AS NECESSARY.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

ADDITION & RENOVATION NEIL ARMSTRONG

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NO.	DESCRIPTION	DATE

PROJECT NUMBER: 223047.00
DATE OF ISSUE: 12.15.23
DRAWN BY: GI
CHECKED BY: NI

ELECTRICAL PLANS - MODULE B

E-101B
ISSUED FOR BIDDING



1
E-102A
1/8" = 1'-0"

ELECTRICAL FIRST FLOOR MECAHNICAL COORDINATION PLAN - MODULE A

- GENERAL NOTES:**
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-600.
 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. INDOOR UNIT POWERED BY OUTDOOR UNIT. PROVIDE NECESSARY CONDUIT AND WIRING BETWEEN THE TWO UNITS. COORDINATE INSTALLATION REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
 2. EXHAUST FAN WILL BE CONTROLLED BY LIGHT SWITCH IN SPACE. PROVIDE NECESSARY COMPONENT FOR OPERATIONAL SYSTEM.
 3. MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
 4. PLUMBING EQUIPMENT IS BEING REPLACED WITH NEW. REUSE AND EXTEND WIRE AND CONDUIT AS NECESSARY FOR NEW EQUIPMENT.
 5. PLUMBING EQUIPMENT IS EXISTING TO REMAIN. MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

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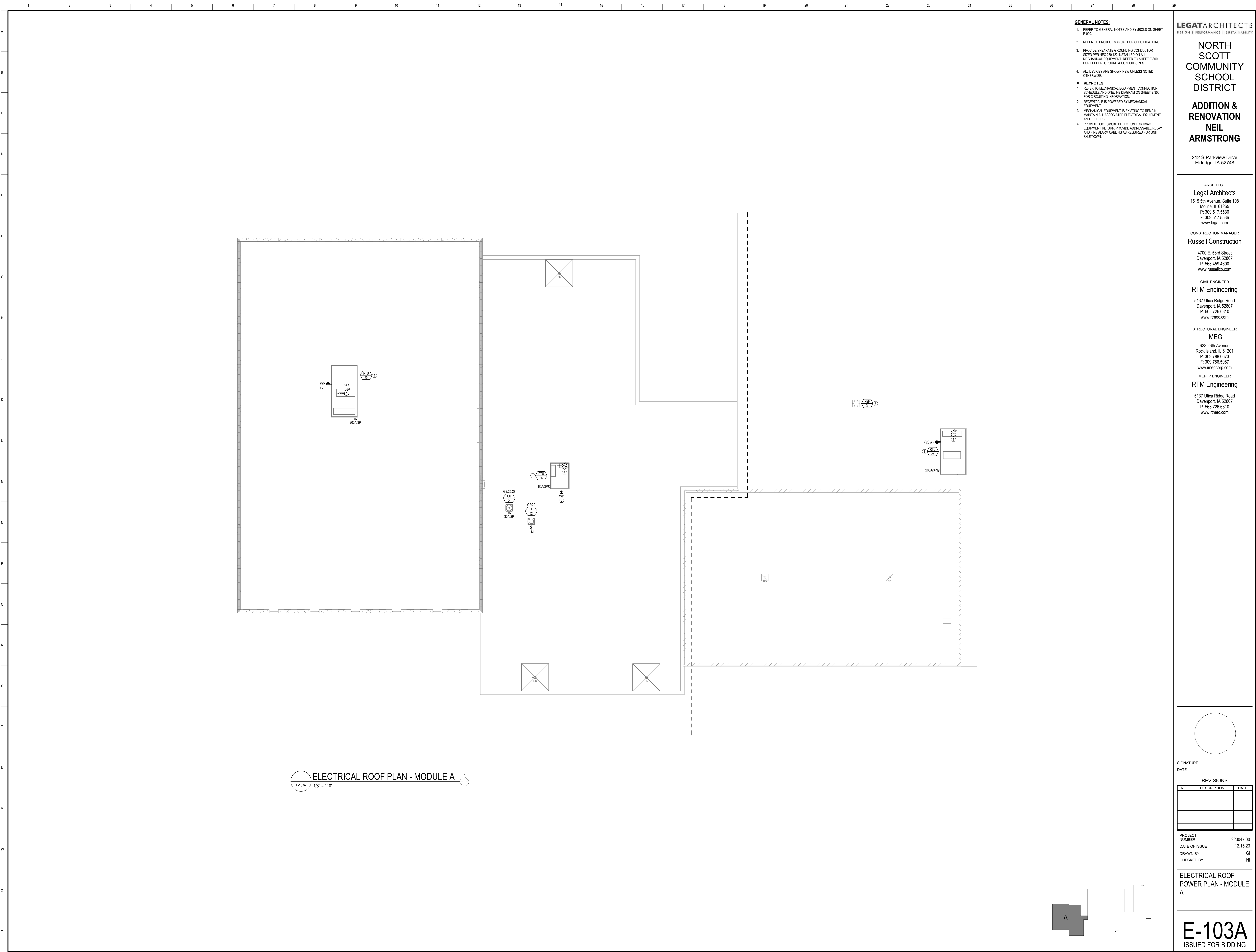
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NO.	DESCRIPTION	DATE

PROJECT NUMBER 223047.00
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CHECKED BY NI

FIRST FLOOR
MECHANICAL
COORDINATION PLAN -
MODULE A

E-102A
ISSUED FOR BIDDING



GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-001.
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. MAINTAIN ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.
4. PROVIDE DUCT SMOKE DETECTION FOR HVAC EQUIPMENT RETURN. PROVIDE ADDRESSABLE RELAY AND FIRE ALARM CABLING AS REQUIRED FOR UNIT SHUTDOWN.

LEGAT ARCHITECTS
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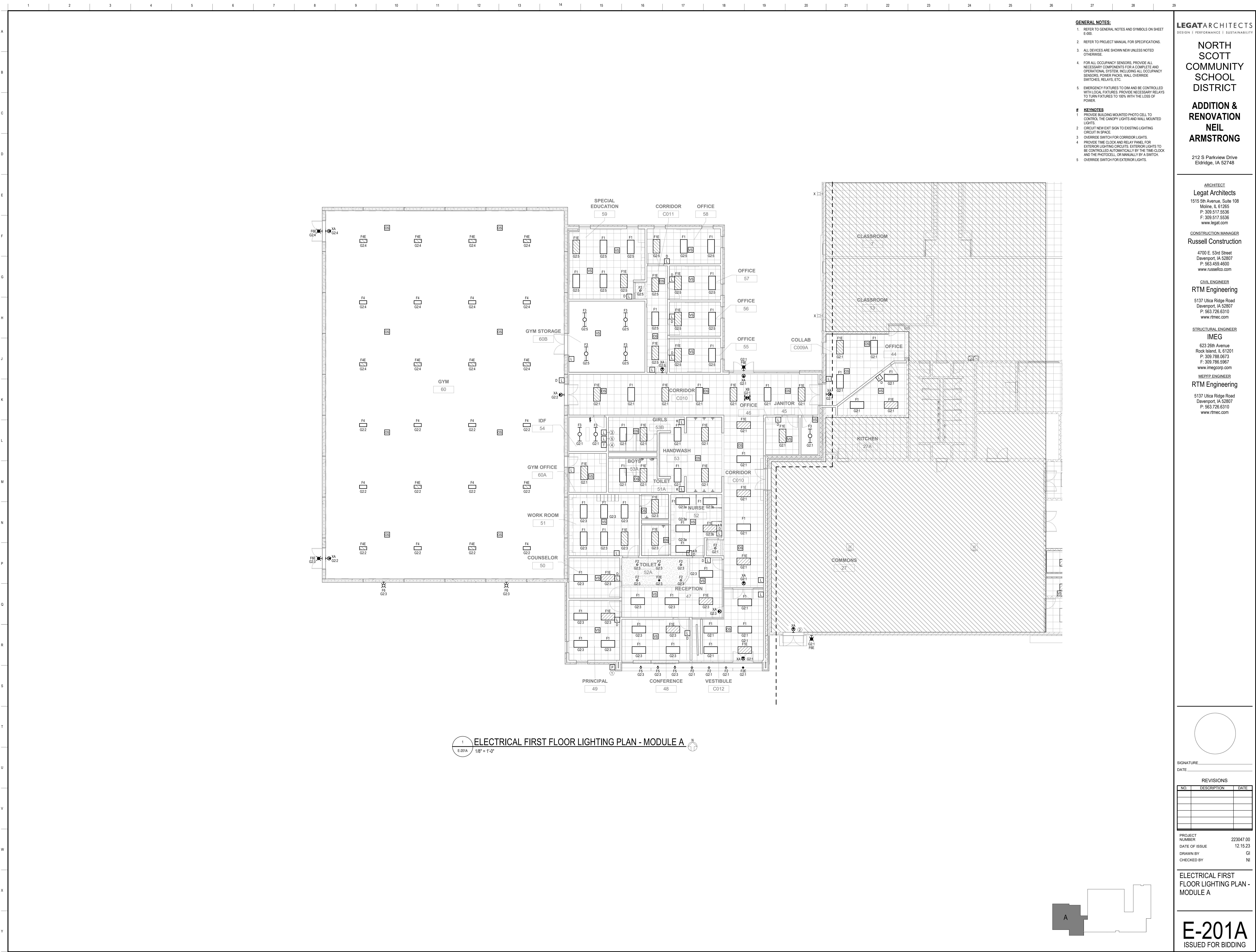
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ELECTRICAL ROOF
POWER PLAN - MODULE
A

E-103A
ISSUED FOR BIDDING



GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-001.
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 NECESSARY RELAYS TO TURN FIXTURES TO 100% WITH THE LOSS OF POWER.

KEYNOTES

1. PROVIDE BUILDING MOUNTED PHOTO CELL TO CONTROL THE CANOPY LIGHTS AND WALL MOUNTED LIGHTS.
2. CIRCUIT NEW EXT SIGN TO EXISTING LIGHTING CIRCUIT IN SPACE.
3. OVERRIDE SWITCH FOR CORRIDOR LIGHTS.
4. PROVIDE TIME CLOCK AND RELAY PANEL FOR EXTERIOR LIGHTING CIRCUITS. EXTERIOR LIGHTS TO BE CONTROLLED AUTOMATICALLY BY THE TIME CLOCK AND THE PHOTOCELL, OR MANUALLY BY A SWITCH.
5. OVERRIDE SWITCH FOR EXTERIOR LIGHTS.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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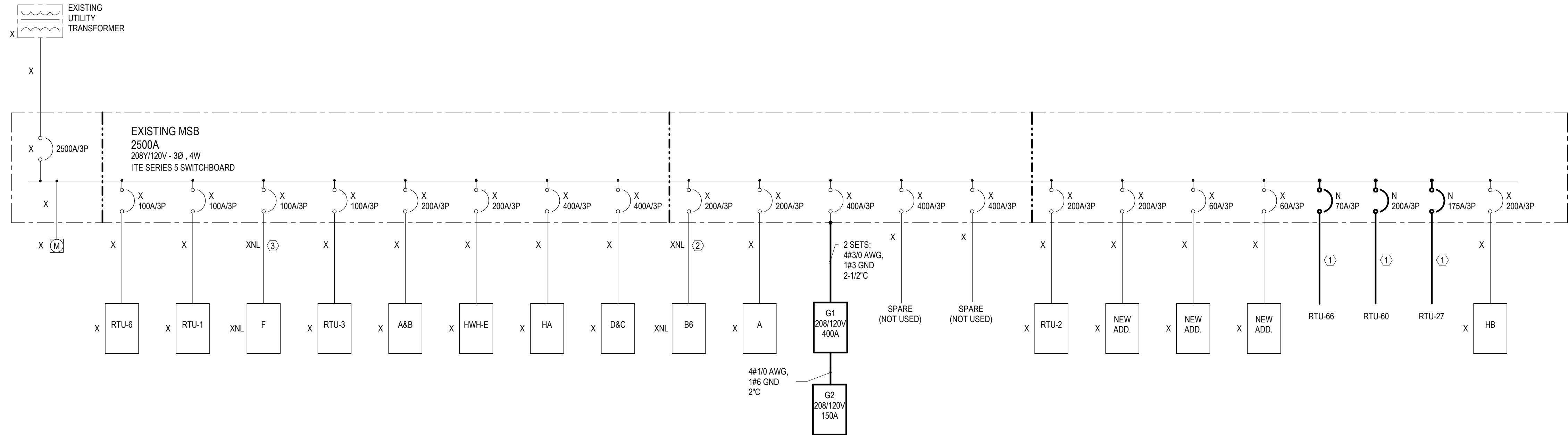
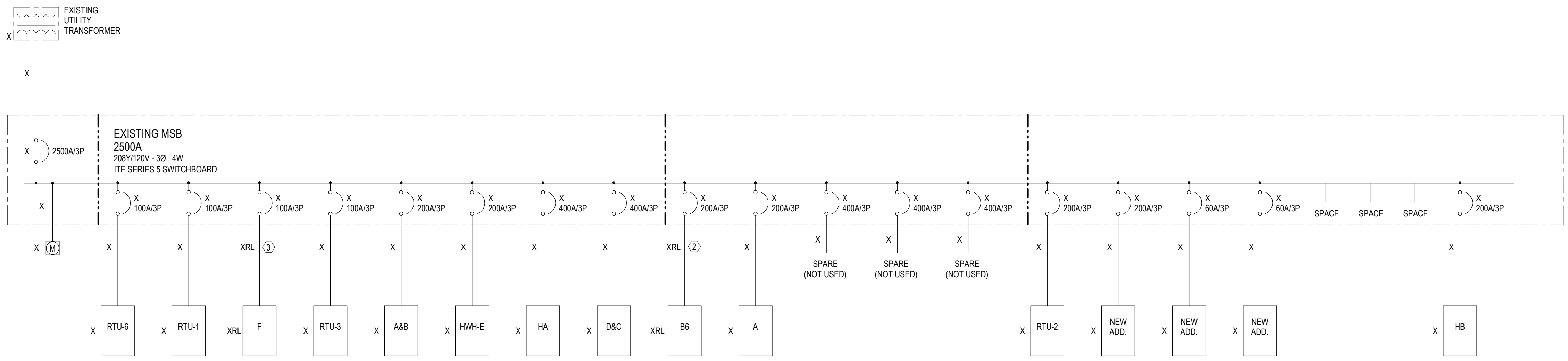
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ELECTRICAL FIRST FLOOR LIGHTING PLAN - MODULE A

E-201A
ISSUED FOR BIDDING



TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE DESCRIPTION	K	CRI	INPUT WATTS	VOLTS	MOUNTING HEIGHT	SPECIFIED FIXTURE	
									MANUFACTURER	MODEL NO.
F1	Z4X RECESSED TROFFER	LED		3600	80	39	120		LITHONIA COLUMBIA COOPER	20T14-48L-GZ1-LP3SS LOCAT24-3SLVIG-EDU 26CZ2-4S-SUNV-LB35-CD1-U
F1E	Z4X RECESSED TROFFER WITH EM BATTERY PACK	LED		3600	80	39	120		LITHONIA COLUMBIA COOPER	20T14-48L-GZ1-LP3SS-EL14L LOCAT24-3SLVIG-EDU-ELL14 26CZ2-4S-SUNV-LB35-CD1-U
F2	6" DOWNLIGHT	LED		3600	80	23	120		LITHONIA PRESCOLITE USA	LDN6-3520-L06AR-LSS-MVOLT-GZ1 LTR-6RD-HAL-20L-0M-NIEL-LTR-6RD-T-ML3K9MD-WCWT 6021-B1-F-10-LRTD6-6040-C2-3K4-40-NC1-120V-0M16A
F2E	6" DOWNLIGHT WITH EM BATTERY PACK	LED		3600	80	23	120		LITHONIA PRESCOLITE USA	LDN6-3520-L06AR-LSS-MVOLT-GZ1-E10WCP LTR-6RD-HAL-20L-0M-NIEL-LTR-6RD-T-ML3K9MD-WCWT 6021-B1-F-10-LRTD6-6040-C2-3K4-40-NC1-120V-0M16A-EM1
F3	INDUSTRIAL STRIP	LED		3600	80	47	120		LITHONIA COLUMBIA COOPER	CS-LA-67000LA-SEF-AFL-MVOLT-GZ1-3K4-80CR MP64-36VLA-OW-EDU 48NLED-L06-64S-LN-UNV-LB35-CD-1-U
F4	HIGH BAY	LED		3600	80	105	120	19' 0"	LITHONIA COLUMBIA COOPER	IBG-15000LA-SEF-AFL-GND-MVOLT-GZ10-3K4-80CR LTR-6RD-HAL-20L-0M-NIEL-LTR-6RD-T-ML3K9MD-WCWT 6021-B1-F-10-LRTD6-6040-C2-3K4-40-NC1-120V-0M16A-EM1
F4E	HIGH BAY WITH EM BATTERY PACK	LED		3600	80	105	120	19' 0"	LITHONIA COLUMBIA COOPER	IBG-15000LA-SEF-AFL-GND-MVOLT-GZ10-3K4-80CR LTR-6RD-HAL-20L-0M-NIEL-LTR-6RD-T-ML3K9MD-WCWT 6021-B1-F-10-LRTD6-6040-C2-3K4-40-NC1-120V-0M16A-EM1
F5	CANOPY MOUNTED WALLWASH	LED		3600	80	23	120		LITHONIA HUBBEL COOPER	LDN6-3520-L06AR-LSS-MVOLT-GZ1 LTR-6RD-HAL-20L-0M-NIEL-LTR-6RD-T-ML3K9MD-WCWT 6021-B1-F-10-LRTD6-6040-C2-3K4-40-NC1-120V-0M16A-EM1
F6	WALLPACK	LED		4000	80	15	120	10' 0"	LITHONIA HUBBEL COOPER	W06B2-P2-40K-80CR-VF RWL-L-48L-15-40-40W-ANV-08T IST-SA1A-740-U-14W-8Z
F6E	WALLPACK WITH EM BATTERY PACK	LED		4000	80	15	120	10' 0"	LITHONIA HUBBEL COOPER	W06B2-P2-40K-80CR-VF-E10WH RWL-L-48L-15-40-40W-ANV-08T-E IST-SA1A-740-U-14W-8Z-CBP
XA	SINGLE FACE EXIT SIGN	LED		0	5	120			LITHONIA COMPASS EMERGOLITE	LQ6A-SW-R-MVOLT-EL-N OER LUN5N1482LA
XB	DOUBLE FACE EXIT SIGN	LED		0	5	120			LITHONIA COMPASS EMERGOLITE	LQ6A-SW-R-MVOLT-EL-N OER LUN5N1482LA

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 MANUFACTURER'S 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 APPROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE						
TAG <1>	DESCRIPTION <2>	LOAD <3>	WIRE/CONDUIT <4>	STARTER <5>	VOLTAGE <6>	LOCAL DISCONNECT <7>
EF	EXHAUST FAN	0.01 HP	#12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	120V 1P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
EF	EXHAUST FAN	0.15 HP	#12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	120V 1P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
EDH	ELECTRIC HEATER	5 KW	#12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
RTU	ROOF TOP UNIT	186 MCA 200 MOCAP	#30 AWG (1) #8 AWG EQ. GND. 2 1/2" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
RTU	ROOF TOP UNIT	82 MCA 70 MOCAP	#4 AWG (1) #8 AWG EQ. GND. 1 1/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
RTU	ROOF TOP UNIT	153 MCA 175 MOCAP	#20 AWG (1) #6 AWG EQ. GND. 2" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
VAV	VARIABLE AIR VOLUME TERMINAL UNIT	2.0KW	#12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
VAV	VARIABLE AIR VOLUME TERMINAL UNIT	3.0KW	#12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
VAV	VARIABLE AIR VOLUME TERMINAL UNIT	4.0KW	#12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
VAV	VARIABLE AIR VOLUME TERMINAL UNIT	6.0KW	#10 AWG (1) #10 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
VAV	VARIABLE AIR VOLUME TERMINAL UNIT	8.0KW	#10 AWG (1) #10 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 3P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
CU	CONDENSING UNIT	11 MCA 25 MOCAP	#10 AWG (1) #10 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 1P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
FC	MINI SPLIT	POWERED BY CU-54	#10 AWG (1) #10 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	208V 1P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P
RCP	RECIRCULATION PUMP	0.17 HP	#12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	120V 1P	FUSED NON-FUSED A SWITCH THERMAL SWITCH 120V/1P

SCHEDULE KEY NOTES
[X] VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH EQUIPMENT INSTALLER BEFORE INSTALLING FEEDERS.
[X] SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
[X] SIZE STARTER/FEEDER/DISCONNECT PER FINAL EQUIPMENT REQUIREMENTS.
[X] PROVIDE FEEDERS AS INDICATED. VERIFY WITH EQUIPMENT REQUIREMENTS.
[X] COORDINATE FINAL STARTER WIRING REQUIREMENTS WITH MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR INSTALLATION.
[X] VERIFY FINAL VOLTAGE AND PHASE REQUIREMENTS OF ALL EQUIPMENT WITH INSTALLER BEFORE INSTALLING FEEDERS.
[X] 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 DEVICES LISTED ARE FROM MANUFACTURERS AND STANDARD MOTOR DATA. FURNISH FUSES BASED ON FUSE MANUFACTURERS STANDARDS. ACTUAL FIELD INSTALLED FULL LOAD CURRENT, AND EQUIPMENT MANUFACTURERS 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.

LEGAT ARCHITECTS

DESIGN | PERFORMANCE | SUSTAINABILITY

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



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ELECTRICAL ONE-LINE AND SCHEDULES

E-300

ISSUED FOR BIDDING

AUDIO/VIDEO EQUIPMENT SCHEDULE					
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	ACCESSORIES OR NOTES	APPROVED EQUALS
	ADAPTIVE CAPTIVE SCREW TO UTP DONGLE	EXTRON	CSC 6	19" RACK MOUNT KIT	CRESTRON AUX APPROVED EQUAL
	1X500 WATT AMPLIFIER	CROWN	CD 1000	19" RACK MOUNT KIT	CRESTRON AUX APPROVED EQUAL
	WIRELESS RF ANTENNA	RF VENUE	DFIN	MOUNTING BRACKET	AUDIO TECHNICA SENNEHEISER SHURE
	A/V TWISTED PAIR RECEIVER	EXTRON	OTP T HWP 4K 331 D	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AUX APPROVED EQUAL
	A/V TWISTED PAIR TRANSMITTER	EXTRON	OTP HDMI 4K 330 RX	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AUX APPROVED EQUAL
	VERTICAL EQUIPMENT CABINET	TRIPP LITE	SRWF6 U36	POU1 POU1415 BLANKING PANEL: EB1	NAVEPOINT MIDDLE ATLANTIC APPROVED EQUAL
	AV CONTROL PROCESSOR	EXTRON	IPCP PRO 250 XI		CRESTRON AUX APPROVED EQUAL
	MICROPHONELINE INPUT - HARD WIRED	ROL SHURE	CONNECTOR: D-30M MICROPHONE: S868 WITH XLR CABLE		AUDIO TECHNICA SENNEHEISER APPROVED EQUAL
	MICROPHONE - WIRELESS	SHURE	QLXD 124-85 H50 FREQUENCY	LAVALIER QLXD1 AND WL185	AUDIO TECHNICA SENNEHEISER APPROVED EQUAL
	A/V PUSH BUTTON CONTROLLER	EXTRON	EBP 200	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AUX APPROVED EQUAL
	PROJECTOR - CEILING MOUNTED/PENDANT	VIVITEK	DU7262C	PROTECTIVE CAGE	APPROVED EQUAL
	PROJECTOR SCREEN, 137" DIAGONAL, 16:10, TENSIONED, WALL MOUNT, MATTE WHITE, PROVIDED REQUIRED MOUNTING HARDWARE.	DA-LITE	70192LS		APPROVED EQUAL
	PENDANT SPEAKERS, PAIR, WHITE	EXTRON	5F 26PT	70V TAPPED AT 30 WATTS. PENDANT LENGTH SHALL BE COORDINATED WITH PENDANT LIGHT FIXTURES	JBL APPROVED EQUAL
	PRESENTER SWITCH	EXTRON	IN1868 - PART NUMBER 60-1615-01		CRESTRON AUX APPROVED EQUAL

GENERAL NOTES:

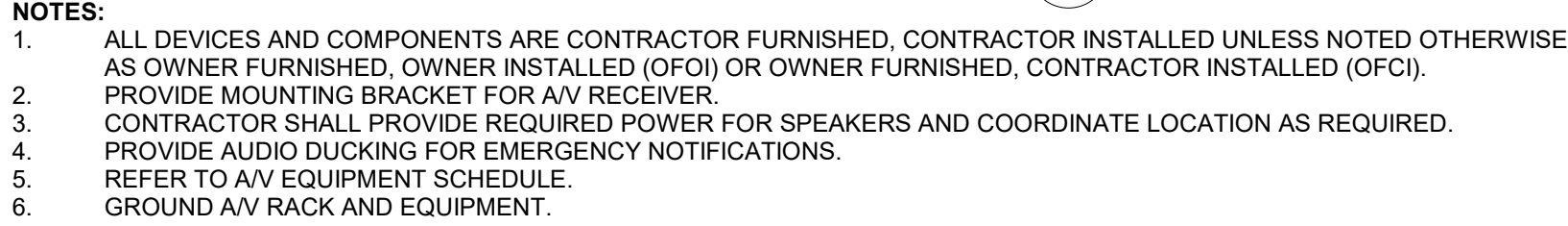
A. CONTRACTOR SHALL PROVIDE REMOTE POWER SUPPLIES AS REQUIRED IF EQUIPMENT DOES NOT OBTAIN PwE POWER FROM A/V HEAD END EQUIPMENT.

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 PENDANT/Ceiling/ably 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 LINELEVEL OVERRIDE INPUT FOR THE SCHOOL CENTRALIZED PAGING SYSTEM AND EMERGENCY FIRE ALARM SYSTEM.



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Branch Panel: G1																											
Location: IDF 54							Volts: 120/208 Vye							A.I.C. Rating: 10K							Mains Type: MCB						
Supply From:							Phases: 3							Bus Amps: 400 A							MCB Rating: 400 A						
Mounting: Surface							Wires: 4																				
Enclosure: Type 1																											
CB Info	CKT	Circuit Description				Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description				CKT	CB Info							
	1	DWH-C012, VESTIBULE C012				13.88 A	20 A	3	1667 VA 2000 VA	1667 VA 2000 VA				3	25 A	VAV-47, RECEPTION 47				4							
	2	EXISTING LIT RMS 16 & 18																		5							
	3	EXISTING LIT RMS 24																		6							
	4	VAV-48, CONFERENCE ROOM 48				8.33 A	20 A	3	1000 VA 1333 VA	1000 VA 1333 VA				3	20 A	11.1 A VAV-49, RECEPTION 47				7							
	5																			8							
	6	VAV-51, WORK ROOM 51				11.1 A	20 A	3	1333 VA 667 VA	1333 VA 667 VA				3	20 A	5.56 A VAV-52, NURSE 52				9							
	7																			10							
	8	VAV-48A, CORRIDOR C010				16.66 A	25 A	3	2000 VA 2000 VA	2000 VA 2000 VA				3	25 A	16.65 A VAV-53, HANDWASH/RESTROOMS				11							
	9																			12							
	10	VAV-48B, CORRIDOR C010				16.66 A	25 A	3	2000 VA 1333 VA	2000 VA 1333 VA				3	20 A	11.1 A VAV-55, OFFICE 55				13							
	11																			14							
	12	VAV-57, OFFICE 57				11.1 A	20 A	3	1333 VA 2667 VA	1333 VA 2667 VA				3	30 A	22.21 A VAV-59, SPECIAL EDUCATION 59				15							
	13																			16							
	14	Q2 PANEL				114.55 A	150 A	3	14786 VA	--	12833 --	13670 --	1 --	--	--	SPARE				17							
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