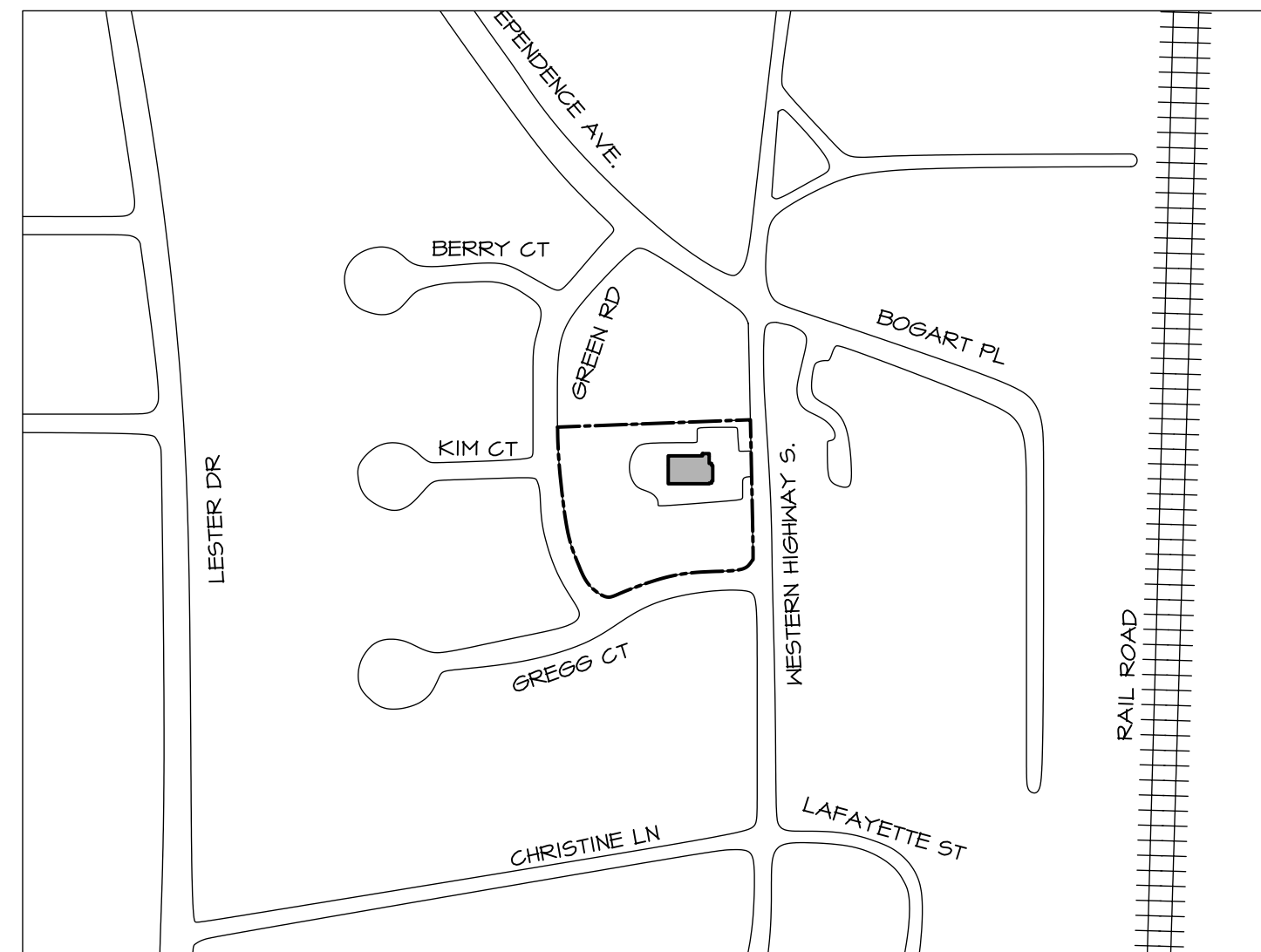


GENERAL NOTES:

- The work on this project shall be awarded as four (4) separate prime contracts. Contracts to be awarded under this BID are as follows:

2108.01B GC - General Construction
2108.01B M - Mechanical Work
2108.01B P - Plumbing Work
2108.01B E - Electrical Work
- All contractors and their sub contractors shall be required to coordinate and schedule their work with other contractors as required to facilitate sequencing, coordination, etc. It shall be the responsibility of each contractor to notify other contractors of conditions that will affect their work or the work of respective sub contractors that will require coordination and/or verification. No change orders will be considered for costs incurred due to lack of proper coordination. All notifications between prime contractors shall be in writing or in meeting minutes to be considered valid.
- Each contractor shall review the entire set of drawings (including architectural drawings) to coordinate their own work and with work of other trades, and to verify information that will affect their work. In general, locations indicated on architectural plans takes precedence over other documents. Architect shall provide interpretation of locations etc. when requested.
- All items specified indicate the minimum standard for components to be incorporated into the project. Any "or equal" must be approved by the Architect and owner. All items called for or specified shall be installed in compliance with the manufacturers written specifications and installation instructions which are incorporated into these drawings in their entirety by this reference. Installations shall include any and all hardware, supports, fittings, components, clearances, etc. which are required for a complete and proper installation and maintenance without exception.
- All work shall comply with the requirements of the Building Code of New York State. contractors shall coordinate any and all required inspections as required for issuance certificate of occupancy
- Each prime contractor shall be responsible for his own excavations, shoring, dewatering, etc. as required for the installation of his own work. Provide 95% compaction clean back fill in max. 12" lifts typical. All Areas.
- Each contractor shall maintain one set of marked up drawings to indicate any and all deviations for as built conditions and shall turn over same to the Architect upon completion of project.



PROJECT LOCATION
SCALE: 1" = 300'

PRE-BID CONFERENCE & RFI NOTE:

A PRE-BID CONFERENCE STARTING AT 11:00 AM PREVAILING TIME ON WEDNESDAY THE 10TH DAY OF AUGUST 2022 AT THE TAPPAN FIRE DEPARTMENT WASHINGTON STREET FIREHOUSE LOCATED AT 135 WASHINGTON STREET, TAPPAN, NY 10983. FOLLOWED BY VISITS TO BOTH PROJECT SITES FOR THE ABOVE NOTED BIDS.

CONFORMED SET 10-14-22

PROPOSED SUBSTATION ALTERATION FOR TAPPAN FIRE DISTRICT 300 WESTERN HIGHWAY SOUTH TAPPAN, NY 10983

LIST OF DRAWINGS

GENERAL CONSTRUCTION DRAWINGS

O-0	COVER SHEET
D-1	SELECTIVE DEMOLITION PLAN, ELEVATIONS & NOTES
A-1.1	FIRST FLOOR PLAN & DETAILS
A-1.2	MEZZANINE PLAN & DETAILS
A-2.1	ROOF PLAN & DETAILS
A-3.1	ELEVATIONS & NOTES
A-4.1	SECTIONS & DETAILS
A-4.2	SECTIONS & DETAILS
A-5.1	STAIR PLANS AND SECTION
A-6.1	WALL SECTIONS & DETAILS
A-7.1	DOOR & FINISH SCHEDULES & DETAILS
A-7.2	BATHROOM PLANS & ELEVATIONS & PARTIAL FIRST FLOOR PLAN
A-8.1	FIRST FLOOR & MEZZANINE REFLECTIVE CEILING PLAN

MECHANICAL DRAWINGS

O-0	COVER SHEET
D-1	SELECTIVE DEMO PLAN
M-1	SCOPE OF WORK HEAR GAIN / LOSS CALCULATIONS
M-2	FIRST FLOOR PLAN
M-3	SECOND FLOOR MECHANICAL PLAN
M-4	ROOF MECHANICAL PLAN
M-5	MECHANICAL EQUIPMENT SCHEDULES & RISER DIAGRAM
M-6	MECHANICAL DETAILS
M-7	MECHANICAL NOTES

PLUMBING DRAWINGS

O-0	COVER SHEET
D-1	SELECTIVE DEMOLITION PLAN
P-1	PLUMBING SITE PLAN
P-2	PLUMBING FIXTURE & SPECIALTY SCHEDULES
P-3	FIRST FLOOR DOMESTIC WATER, AIR, GAS PLAN
P-4	MEZZANINE DOMESTIC WATER, AIR GAS PLAN
P-5	FIRST FLOOR SANITARY PLAN
P-6	MEZZANINE SANITARY LINE
P-7	PLUMBING ROOF PLAN
P-8	PLUMBING RISER DIAGRAMS
P-9	PLUMBING DETAILS
P-10	PLUMBING NOTES

ELECTRICAL DRAWINGS

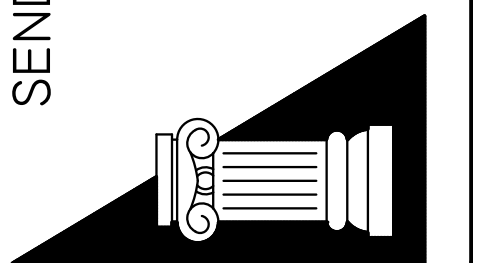
O-0	COVER SHEET
D-1	SELECTIVE DEMO PLAN
E-1	ELECTRICAL SITE PLAN
E-2	ELECTRICAL PANEL SCHEDULES
E-3	FIRST FLOOR POWER PLAN
E-4	MEZZANINE POWER PLAN
E-5	ROOF POWER PLAN
E-6	FIRST FLOOR LIGHTING PLAN
E-7	MEZZANINE LIGHTING PLAN
E-8	FIRST FLOOR MISCELLANEOUS PLAN
E-9	MEZZANINE MISCELLANEOUS PLAN
E-10	MISCELLANEOUS RISERS
E-11	MISCELLANEOUS RISERS CONTINUED

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TAPPAN FIRE DISTRICT
300 WESTERN HIGHWAY SOUTH
TAPPAN, NY 10983

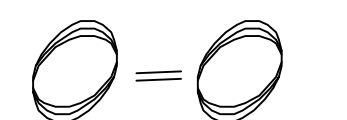
COVER SHEET

PROJECT #: 2108.01B

DRAWN BY: AR/JC

CAD FILE: 2108.01B/P-/BID

DRAWING#:



SUB STATION

CONSTRUCTION

- C1. EXISTING INTERIOR WALL ARE TO BE REMOVE
- C2.1 EXISTING INTERIOR WALL FINISHES ARE TO BE REMOVED & REPLACE WHERE APPLICABLE. SEE FINISH SCHEDULE DWS A-TJ
- C2.2 EXISTING WOOD SHELVES TO BE REMOVE
- C3. EXISTING VENT TO BE REMOVE, AREA TO BE INFILL & PATCH AS NEEDED.
- C4. EXISTING CEILINGS TO BE REMOVED, REPLACE WHERE APPLICABLE SEE DWS A-TJ
- C5.1 EXISTING WINDOW INCLUDING FRAME TO BE REMOVE
- C5.2 EXISTING WINDOW TO REMAIN
- C6. EXISTING SOFFIT TO BE REMOVE & REPLACE
- C7. EXISTING WHITE VINYL SIDING TO BE REMOVE & REPLACE WITH NEW HARDIE WOOD PLANK.
- C8. EXISTING PAINTED CMU TO REMAIN, EXISTING PAINT TO BE REMOVE, AREA TO BE PATCH AS NEEDED FOR NEW CULTURE STONE TO BE INSTALL.
- C9. EXISTING FRAME WITH GLASS ABOVE DOORS TO BE REMOVE & REPLACE.
- C10. EXISTING DOORS INCLUDING DOOR FRAMES TO BE REMOVE & REPLACE UNLESS NOTED OTHER WISE
- C11.1 REMOVE EXISTING O.H.D. OPERATORS TO BE REPLACED AS PART OF BASE BID
- C11.2 REMOVE EXISTING O.H.D. AS PART OF ADD ALTERNATE TO BE REPLACED IF ACCEPTED.
- C12. NEW EIFS SYSTEM TO BE INSTALL ON TOP OF EXISTING BRICK
- C13. METAL & ASSOCIATED STONE COPING TO BE REMOVE.
- C14. EXISTING ANTENNA TO BE REMOVE & REINSTALL
- C15. EXISTING FLAG POLE TO BE REMOVE & REINSTALL
- C16. EXISTING TAPPAN FIRE DISTRICT SIGN TO BE REMOVE & REINSTALL (SEE DWS. A-3.1 FOR LOCATION)
- C17. PULL DOWN STAIR TO BE REMOVE, AREA TO BE ALTER FOR NEW STAIRWAY TO BE INSTALLED
- C18. ROOF SHEATHING TO BE REMOVE & REPLACE
- C19. EXISTING MONUMENT TO BE REMOVE.
- C20. ARE TO BE SAW CUT & PATCH AS NEEDED, NEW 2" CONC. SLAB TO BE POUR.

- C21. PORTION OF EXISTING MEZZANINE FLOOR AT NEW STAIR LOCATION TO BE REMOVE & ALTER AS NEEDED.
- C22. PORTION OF EXISTING ASPHALT TO BE SAW CUT, FOR NEW COLUMN FOOTING. AREA TO BE PATCH AS NEEDED. SEE DWS A-B.1 DETAIL A.
- C23. PROVIDE POCKETS IN EXISTING CMU WITH NEW 8"x12" PLATE W/ (2) 3"x8" ANCHORS INTO EXISTING CMU, W/ SOLID GROUT TO RECEIVE NEW FRAMING.
- C24. EXISTING OVERHEAD DOOR OPERATORS TO BE REMOVE, NEW OPERATORS TO BE INSTALLED PER EXISTING OVERHEAD DOOR SPECIFICATION (V.I.F.)
- C25. EXISTING OVERHEAD DOOR OPERATORS REMAIN.

MECHANICAL

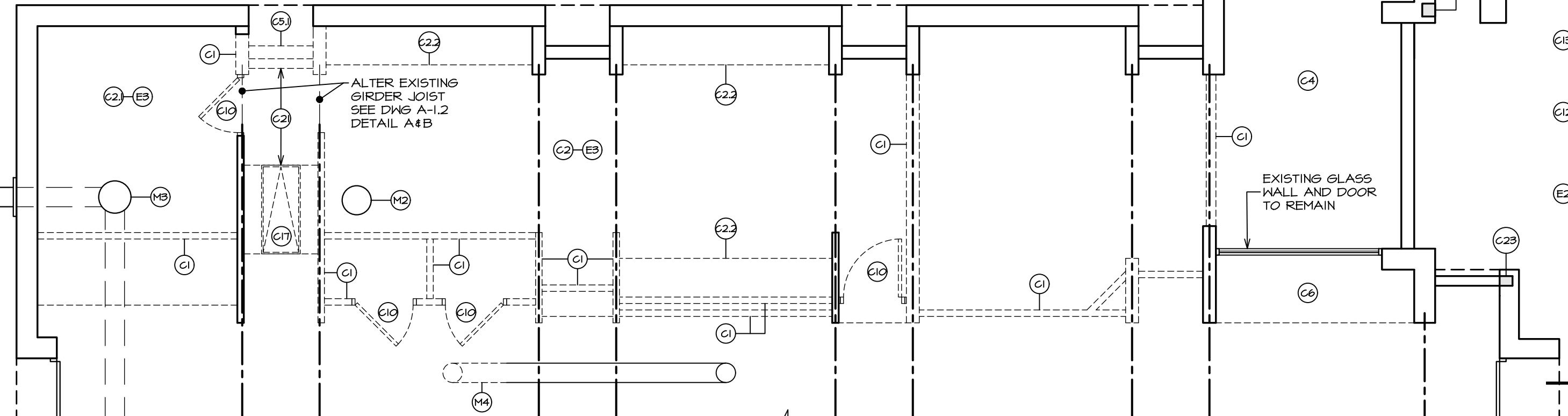
- M1. BOILER TO BE REMOVE
- M2. AIR COMPRESSOR TO BE REMOVE
- M3. EXHAUST VENT TO REMAIN
- M4. ANY AND ALL MECHANICAL HEATING SYSTEM TO BE REMOVE INCLUDING BASEBOARDS, UNITS HEATERS, ETC. INCLUDING ALL ASSOCIATED PIPING, PUMPS, ETC.

ELECTRICAL

- E1.1 EXISTING LIGHT FIXTURE TO BE REMOVE
- E1.2 EXISTING LIGHT FIXTURE TO BE REMOVE & RELOCATED
- E2. EXISTING LIGHT FIXTURE TO REMAIN
- E3. ALL ELECTRICAL OUTLET ASSOCIATED WITH DEMOLISHED WALLS ARE TO BE REMOVED, CIRCUIT WIRING TO BE BACK INTO CEILING FOR FUTURE USE WHERE APPLICABLE.
- E4. ELECTRICAL PANEL TO REMAIN

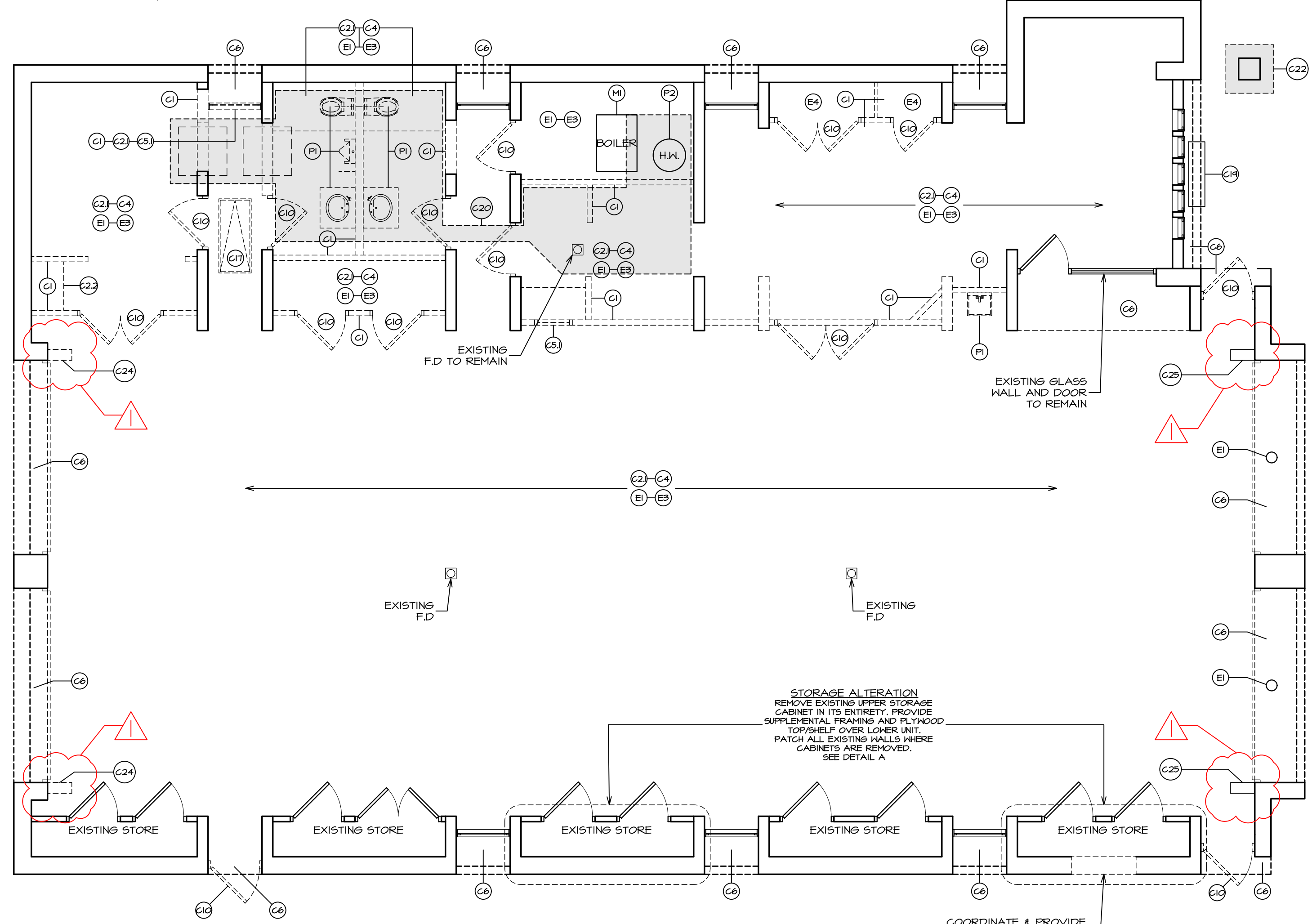
PLUMBING

- P1. EXISTING PLUMBING FIXTURES TO BE REMOVE & ASSOCIATED PIPING
- P2. EXISTING HOT WATER HEATER TO BE REMOVE.
- P3. SAW CUT & REMOVE PORTION OF EXISTING SLAB AS REQUIRED FOR NEW SANITARY PIPING



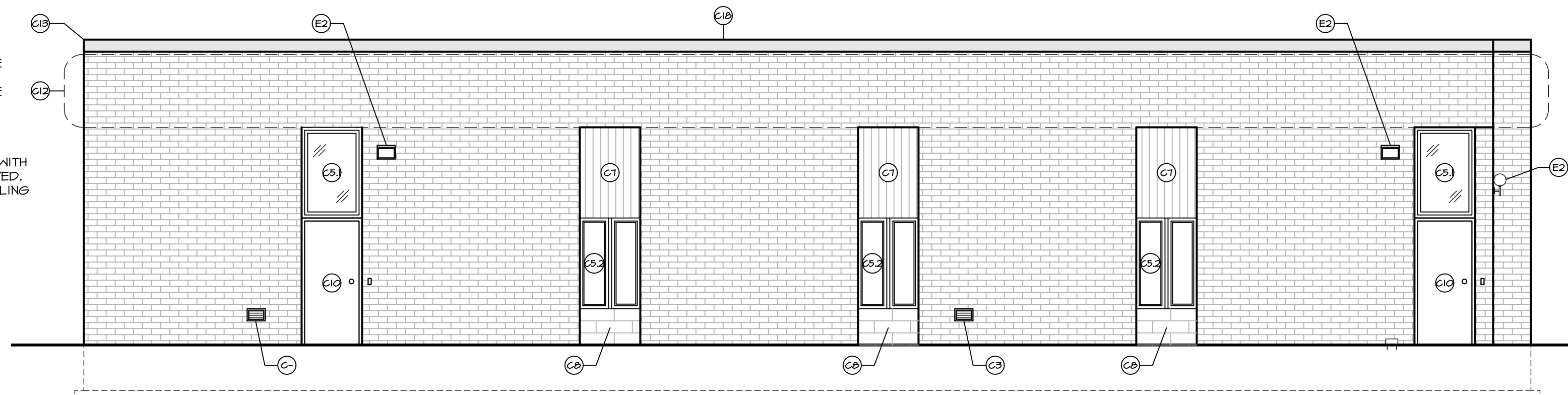
MEZZANINE DEMO PLAN (M-4 TYP.)

SCALE: 3/16" = 1'-0"



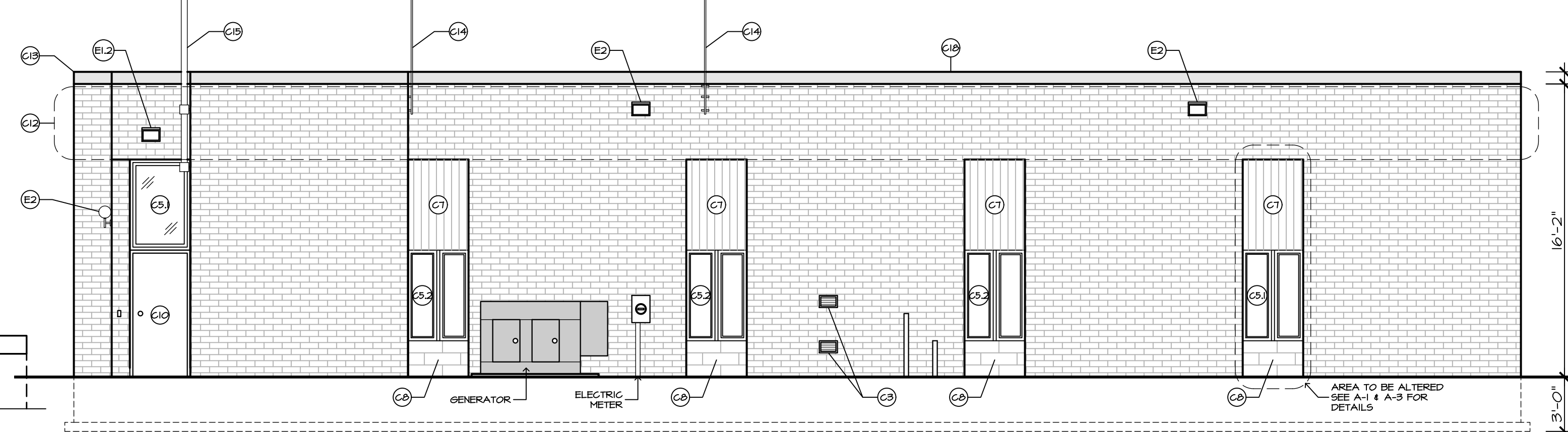
FIRST FLOOR DEMO PLAN (M-4 TYP.)

SCALE: 3/16" = 1'-0"



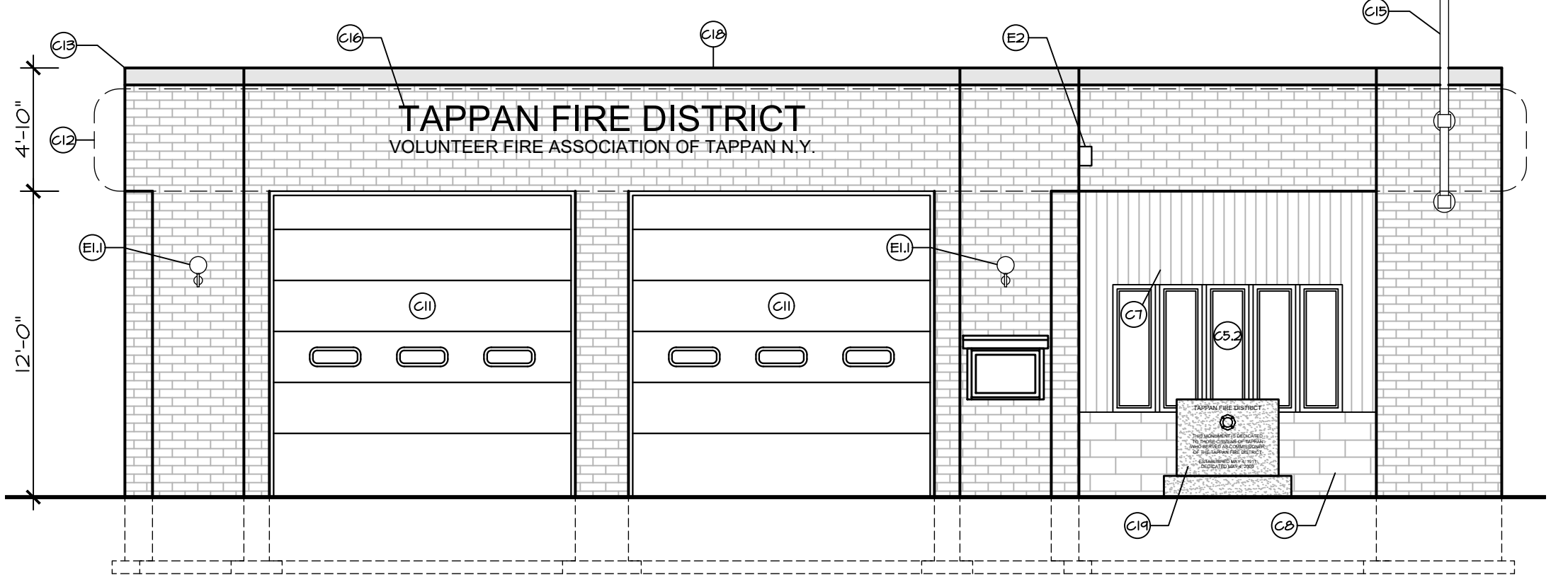
NORTH ELEVATION

SCALE: 3/16" = 1'-0"



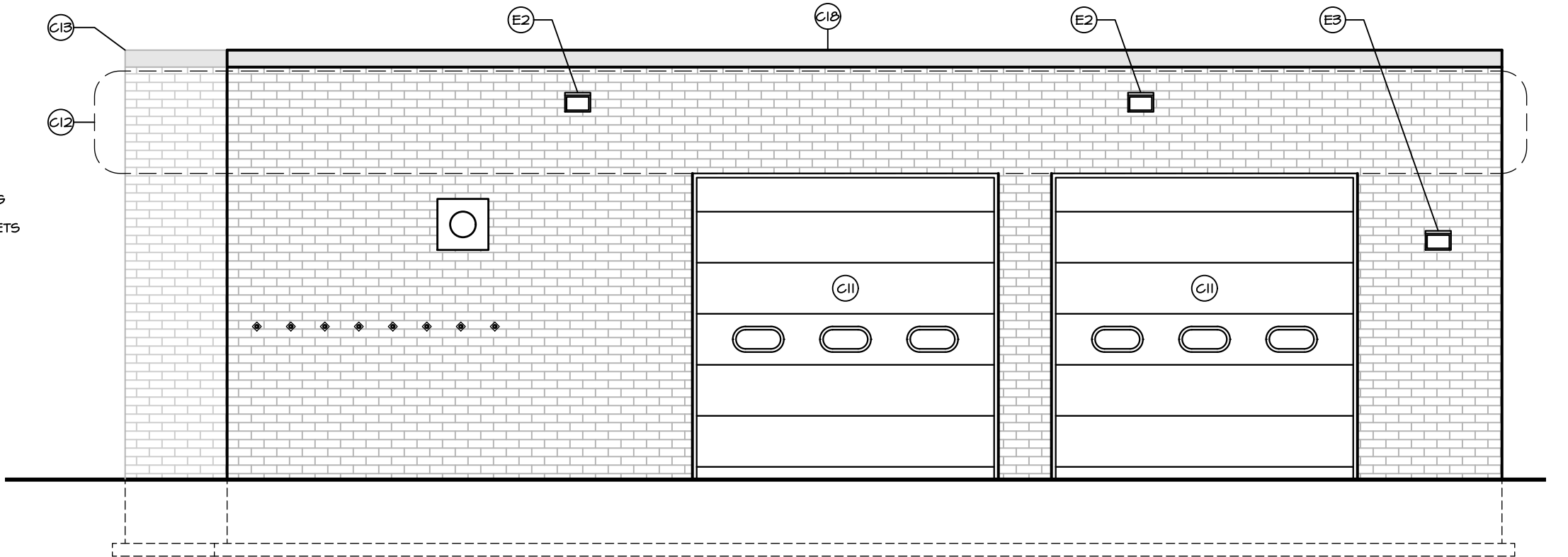
SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



EAST ELEVATION

SCALE: 3/16" = 1'-0"



WEST ELEVATION

SCALE: 3/16" = 1'-0"

A STORAGE ALTERATION

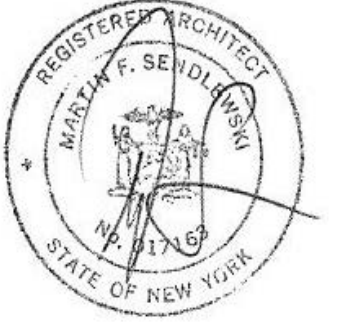
SCALE: 3/16" = 1'-0"

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TAPPAN FIRE DISTRICT
300 WESTERN HIGHWAY SOUTH
TAPPAN, NY 10983
EXISTING DEMOLITION PLAN & ELEVATIONS & NOTES

PROJECT #: 2108.01B

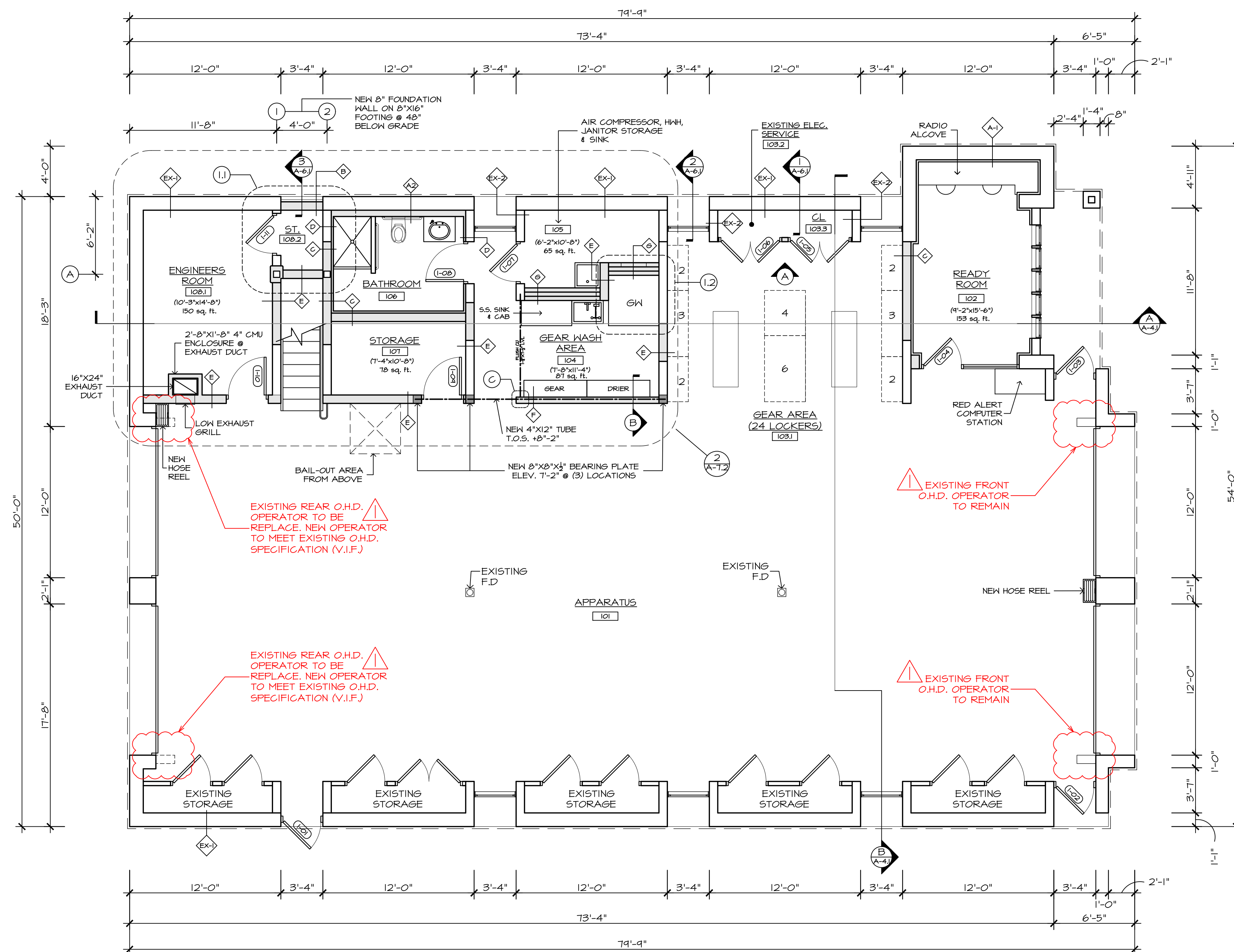
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CAD FILE: 2108.01B/P-/BID

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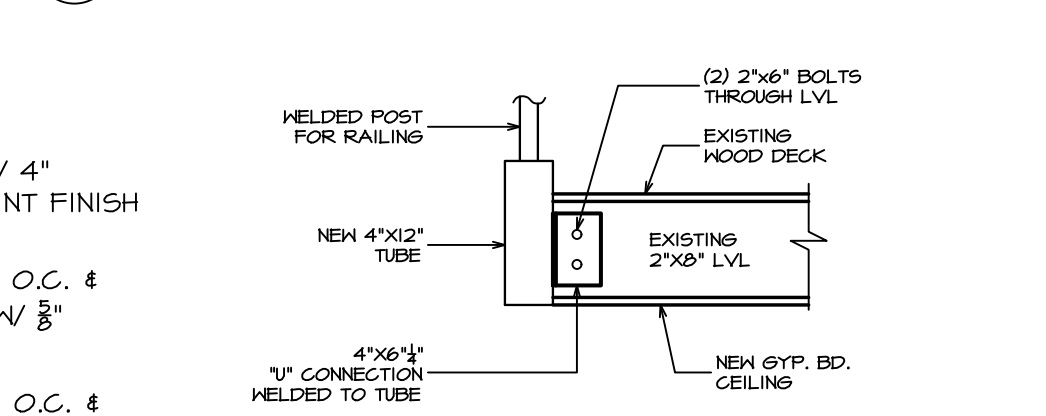
SUB STATION



WALL TYPES

EX-1	EXISTING 8" CMU W/ 1" CAVITY & 4" MASONRY	B	NEW 8" CMU W/ 2" EIFS SYSTEM	F	NEW 6" CMU W/ PAINTED FINISH 48" HIGH
EX-2	EXISTING 4" CMU W/ 4" MASONRY	C	NEW 8" CMU W/ 2" FURRING & 3/8" GYP. BD.	G	(2) 4" CMU WALL W/ 4" AIR CAVITY W/ PAINT FINISH
A1	EXISTING 8" CMU W/ 1" CAVITY & 4" MASONRY ADD 2" FURRING W/ 3/8" GYP. BD.	D	EXISTING 4" CMU W/ 4" MASONRY & NEW 2" FURRING & 3/8" GYP. BD.	H	4" STUD WALL @ 16 O.C. & BATT. INSULATION W/ 3/8" GYP. BD.
A2	EXISTING 8" CMU W/ 1" CAVITY & 4" MASONRY ADD 6" FRAMING INSIDE 2" RIGID INSULATION @ EXISTING CMU. W/ 3/8" GYP. BD.	E	NEW 8" CMU W/ PAINTED FINISH	J	8" STUD WALL @ 16 O.C. & BATT. INSULATION W/ 3/8" GYP. BD.

LV L CONNECTION DETAIL



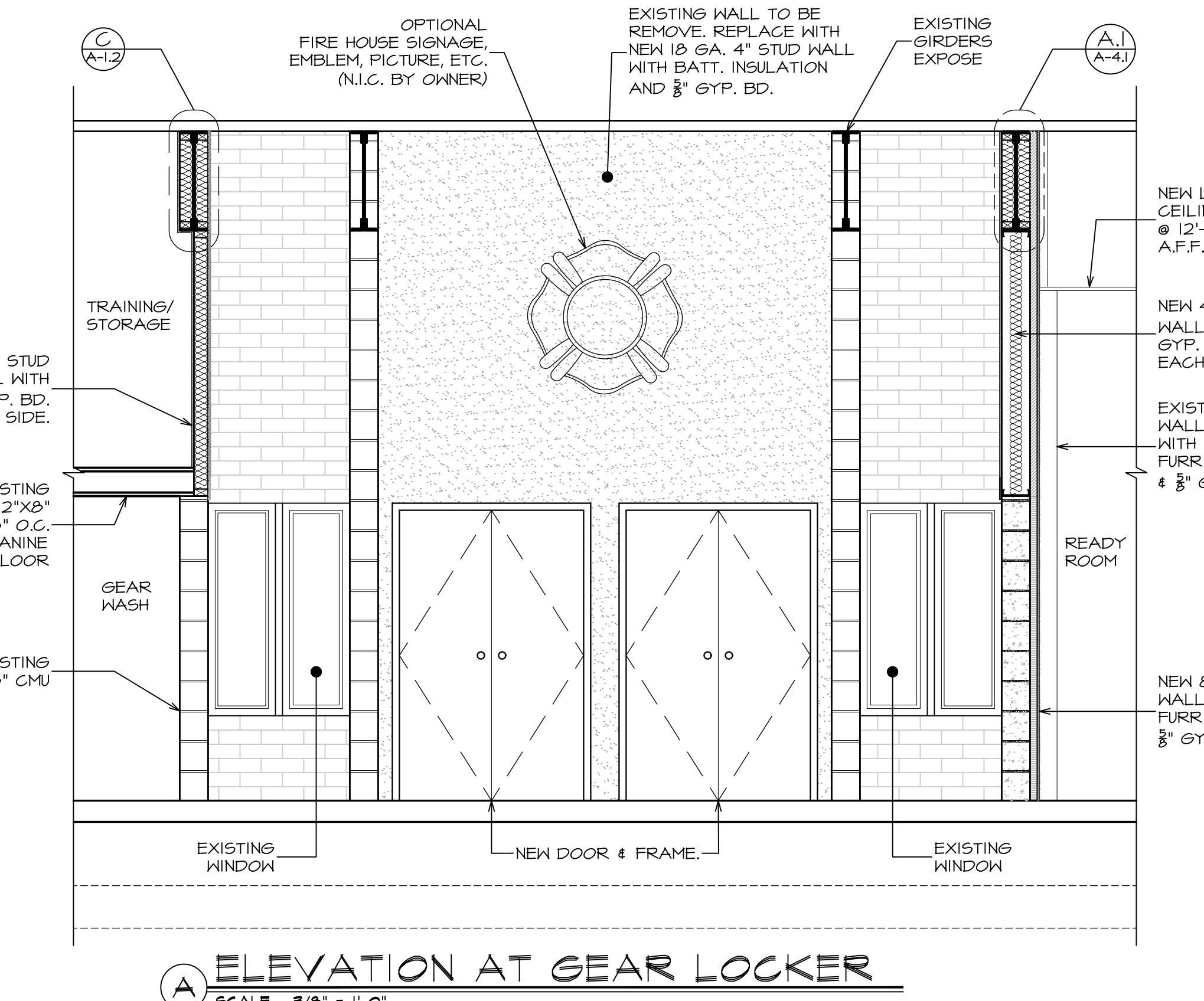
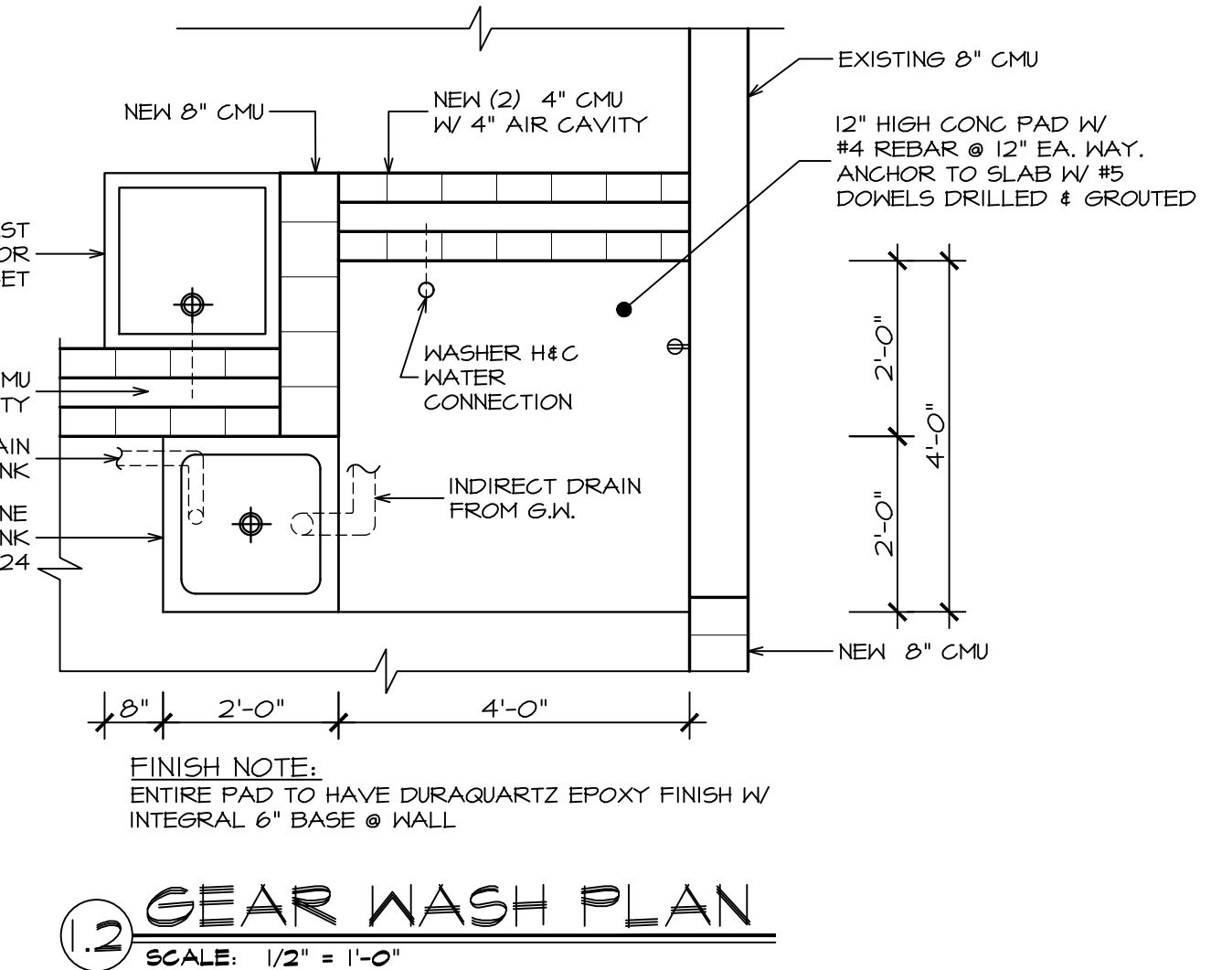
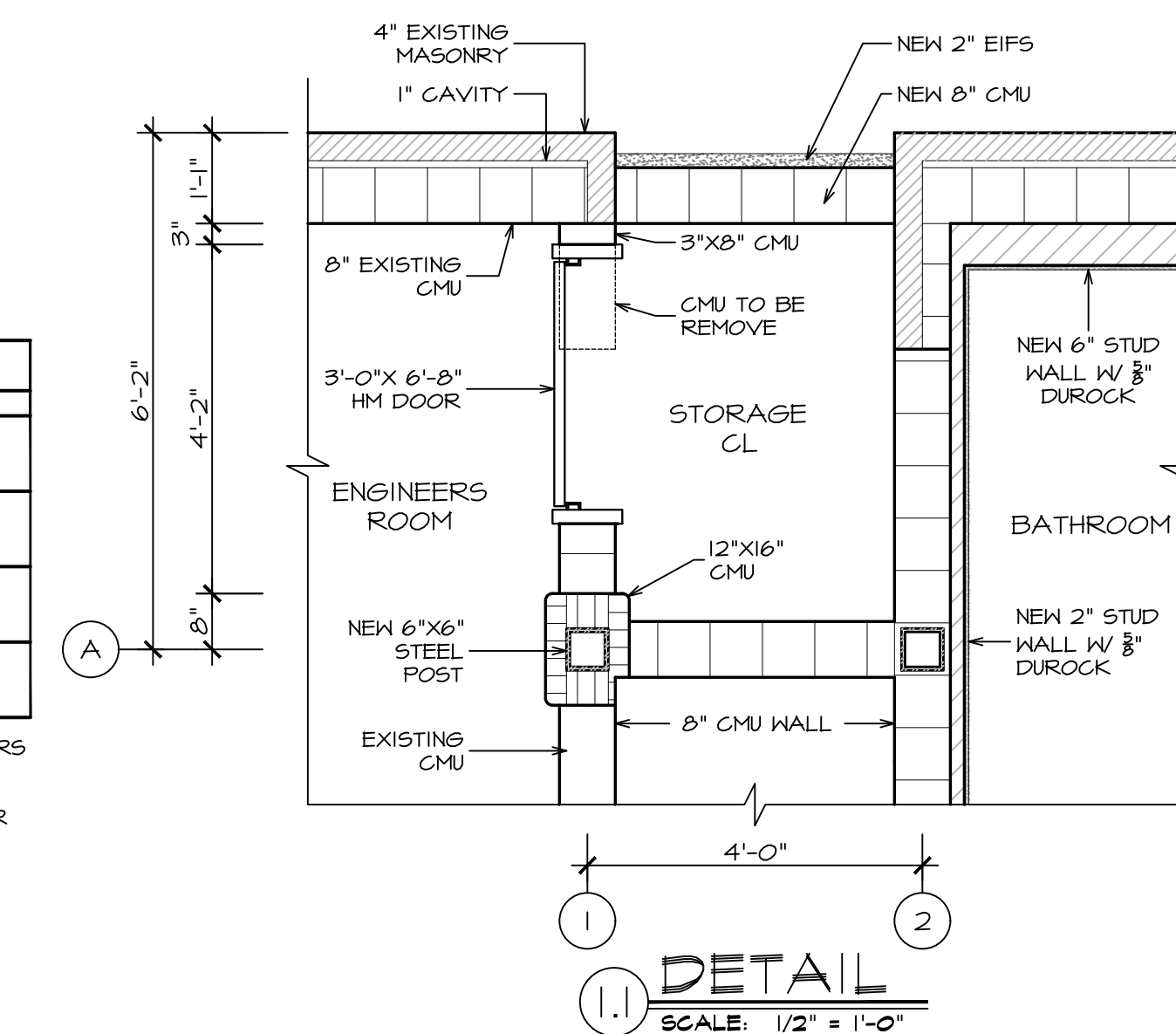
RAILING TUBE DETAIL

SCALE: 3/8" = 1'-0"

QUANTITY	SERIES	SIZE
1	FREE STANDING CASTER	6 PACK LOCKERS
1	FREE STANDING CASTER	4 PACK LOCKERS
2	STANDARD WALL MOUNT	3 PACK LOCKERS
4	STANDARD WALL MOUNT	2 PACK LOCKERS

* GC TO PROVIDE & INSTALL GEAR GRID LOCKERS

NOTE:
1. ALL LOCKERS TO HAVE STANDARD POWER BAR
2. COLOR TO BE SELECTED BY OWNER.



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TAPPAN FIRE DISTRICT
300 WESTERN HIGHWAY SOUTH
TAPPAN, NY 10983
FIRST FLOOR PLAN & DETAILS

PROJECT #: 2108.01B

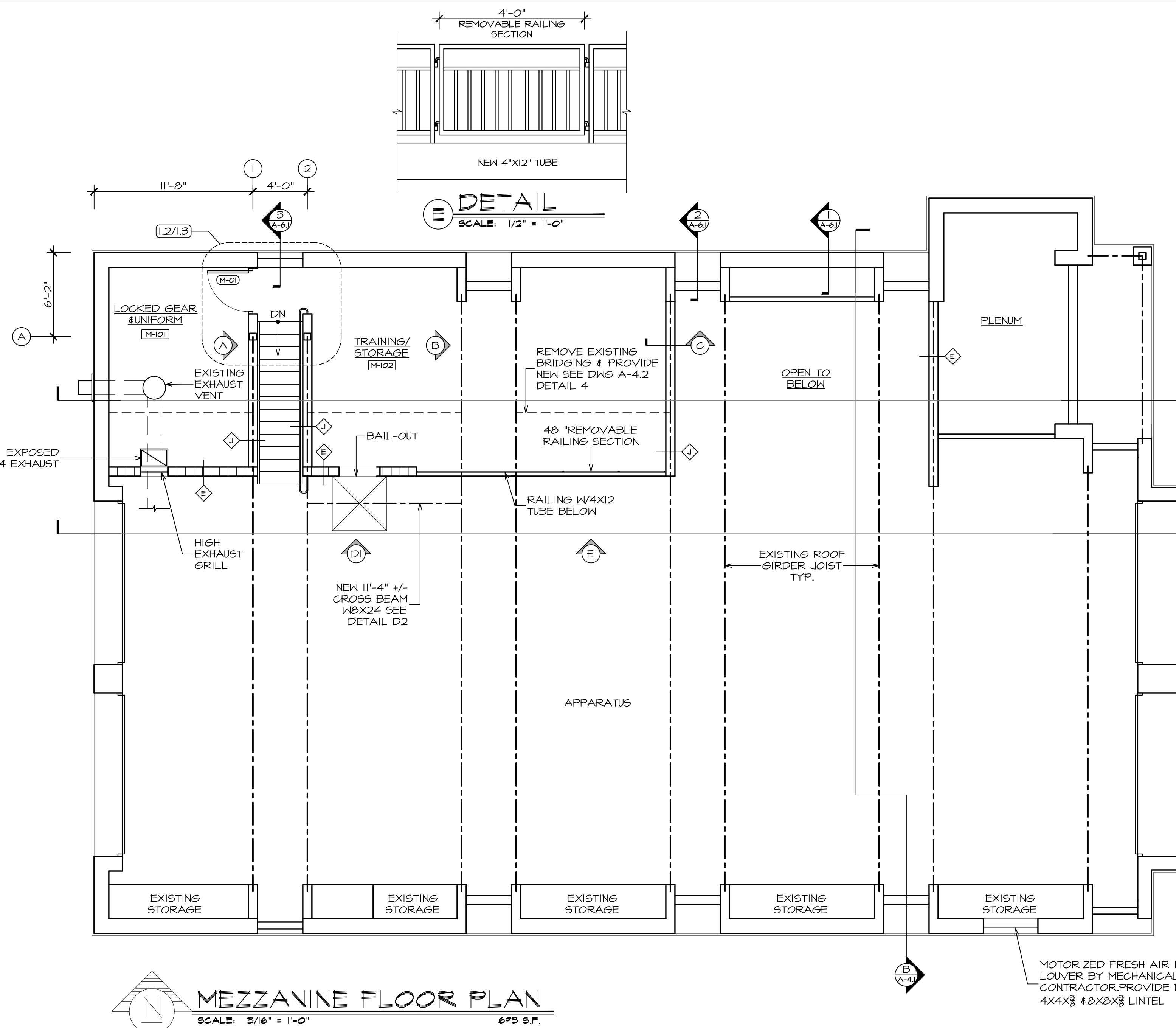
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CAD FILE: 2108.01B/P./BID

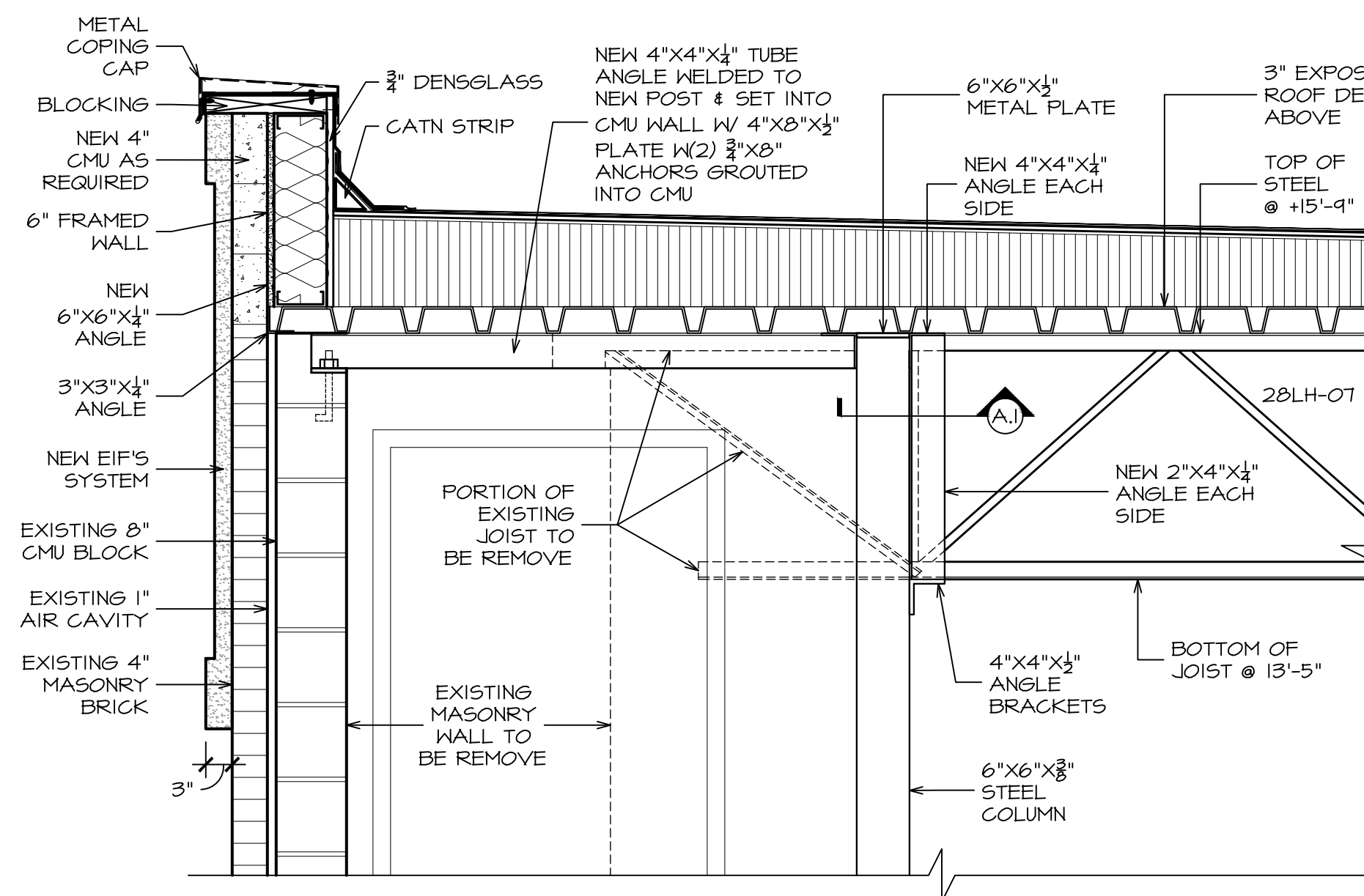
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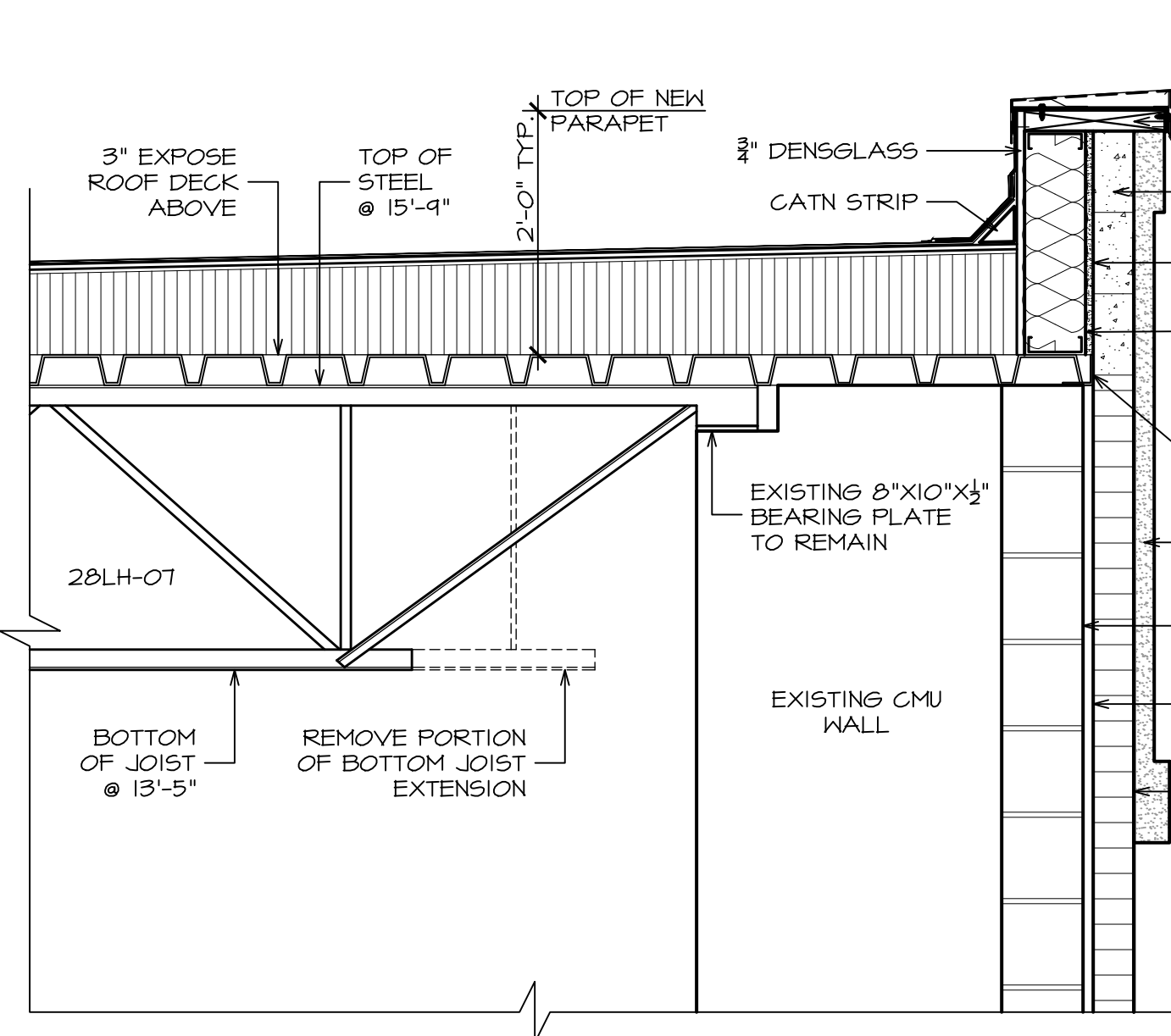
SUB STATION



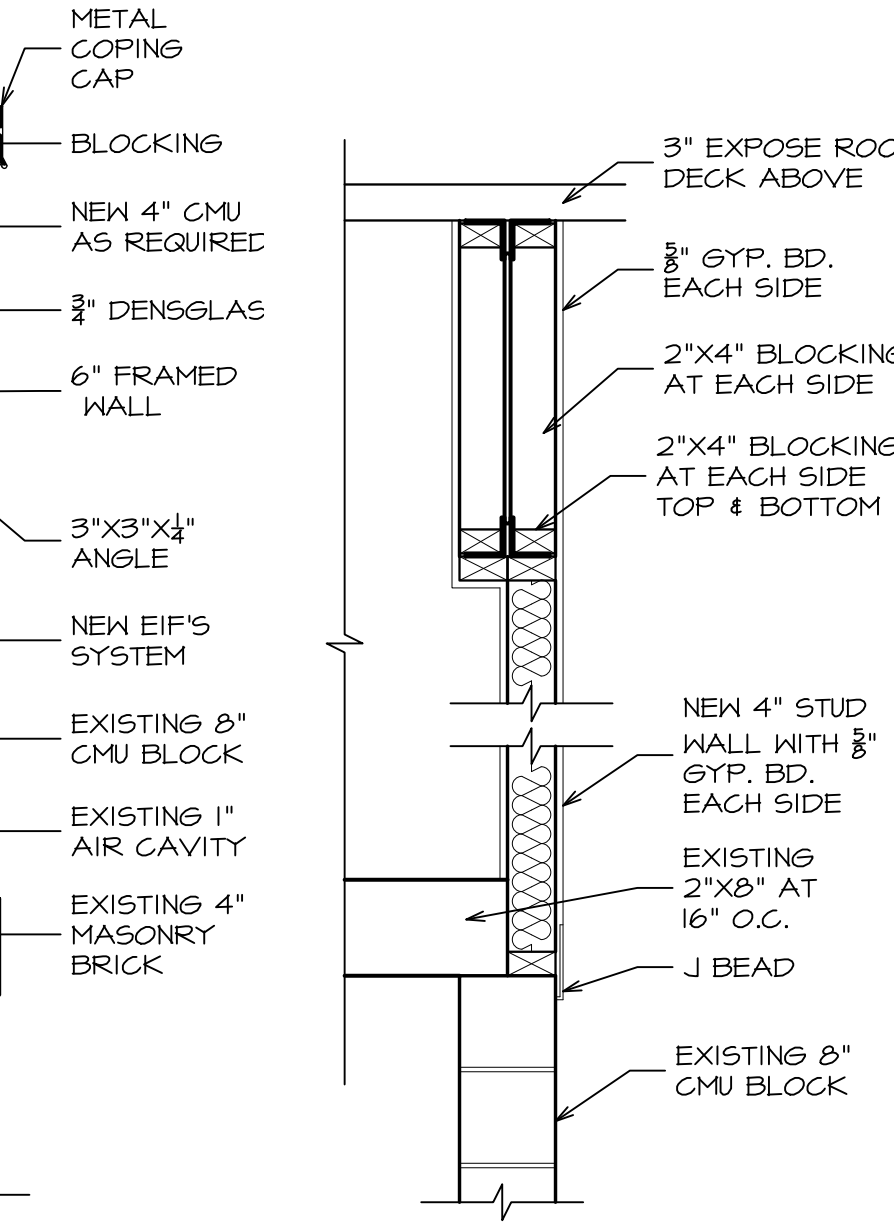
MEZZANINE FLOOR PLAN
SCALE: 3/16" = 1'-0"
6413 S.F.



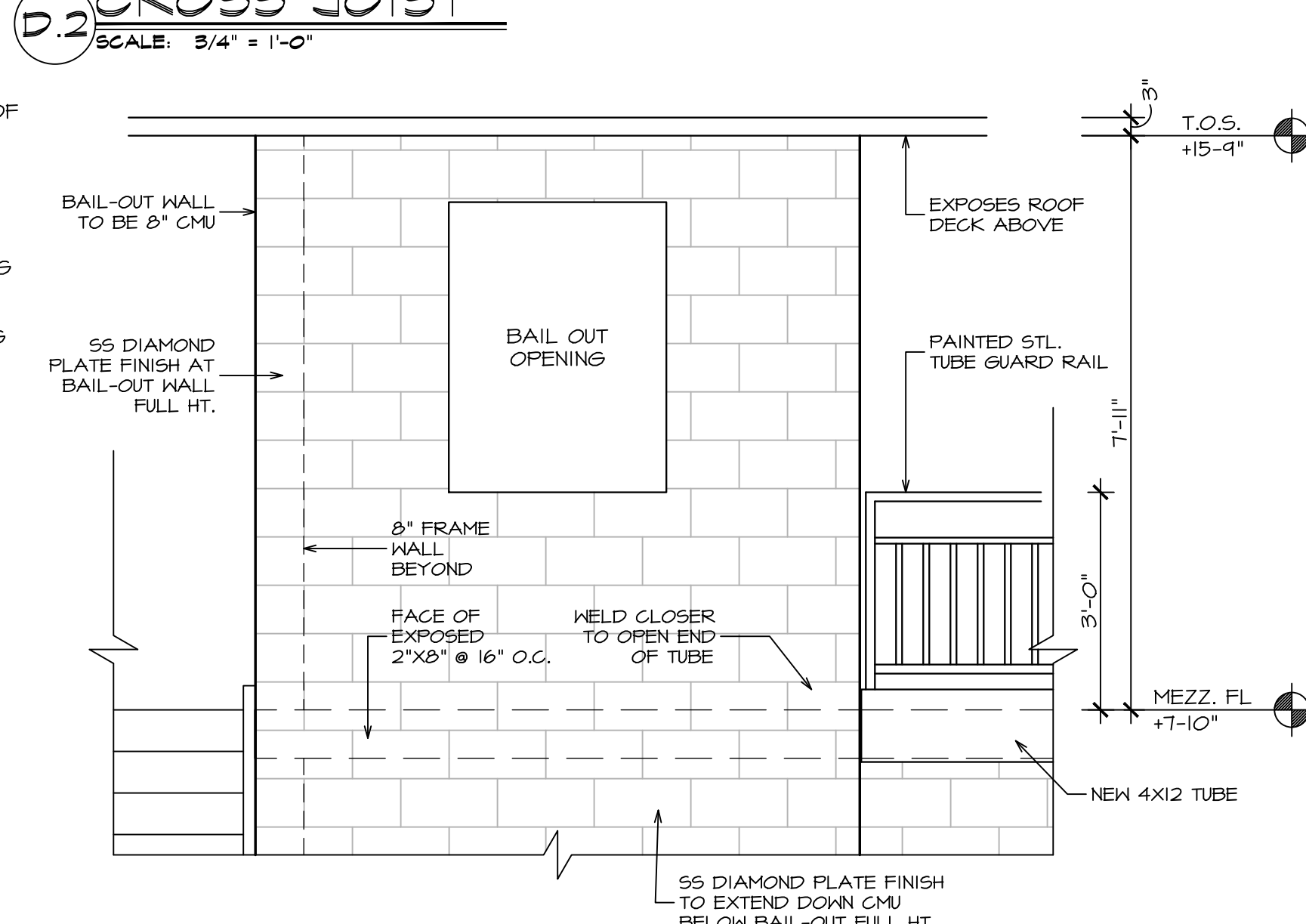
A. JOIST DETAIL
SCALE: 3/4" = 1'-0"



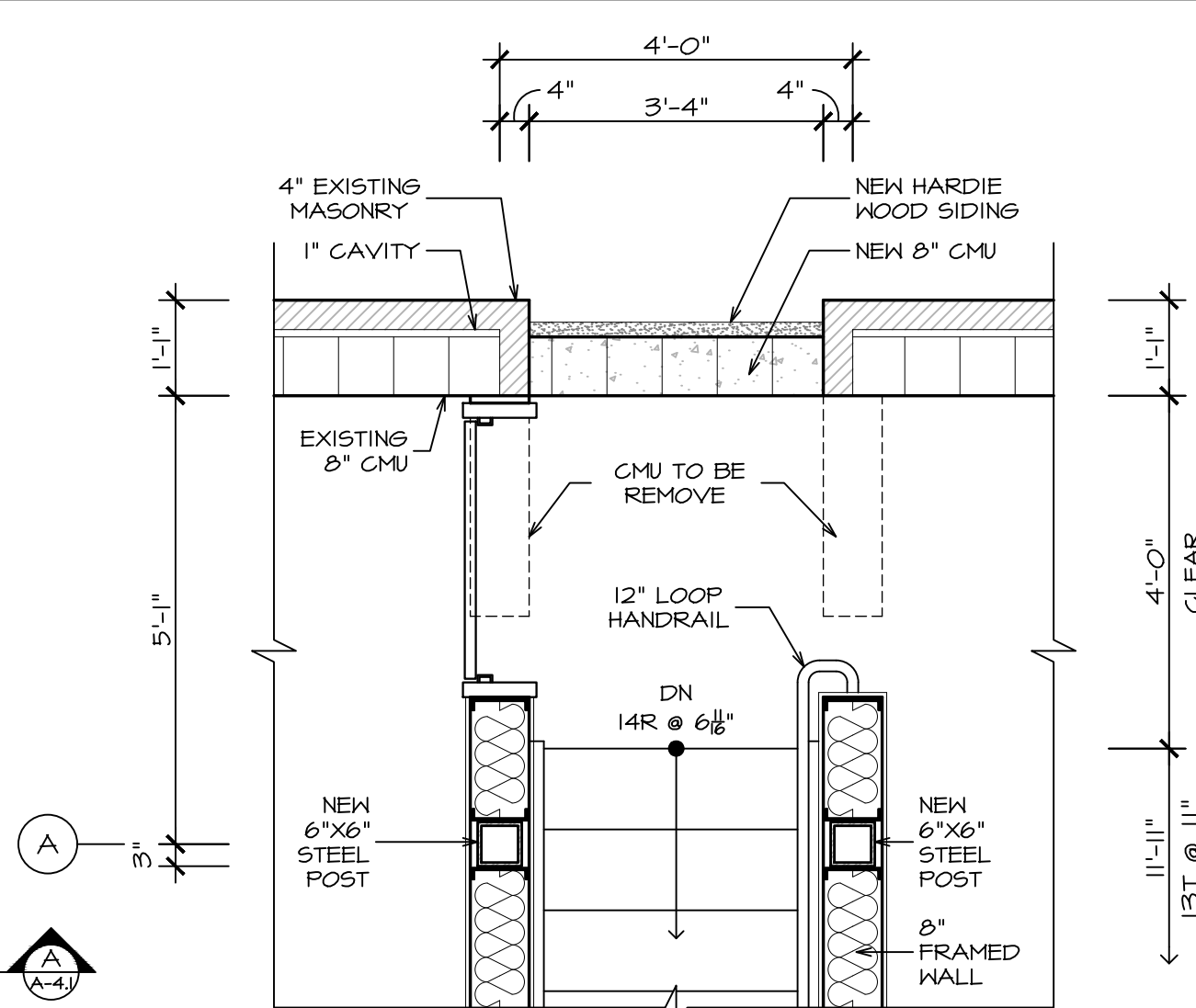
B. JOIST DETAIL
SCALE: 3/4" = 1'-0"



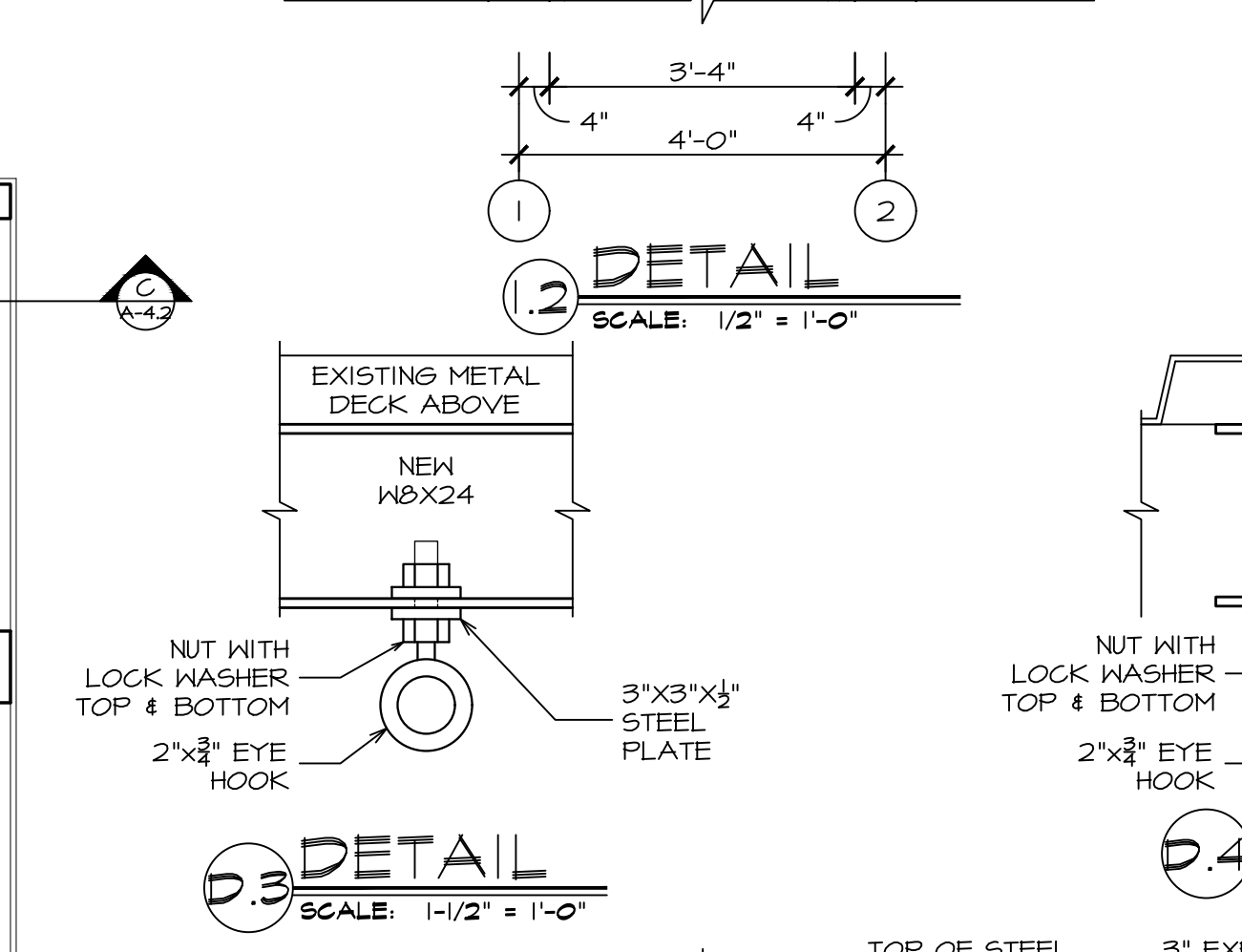
C. JOIST DETAIL
SCALE: 3/4" = 1'-0"



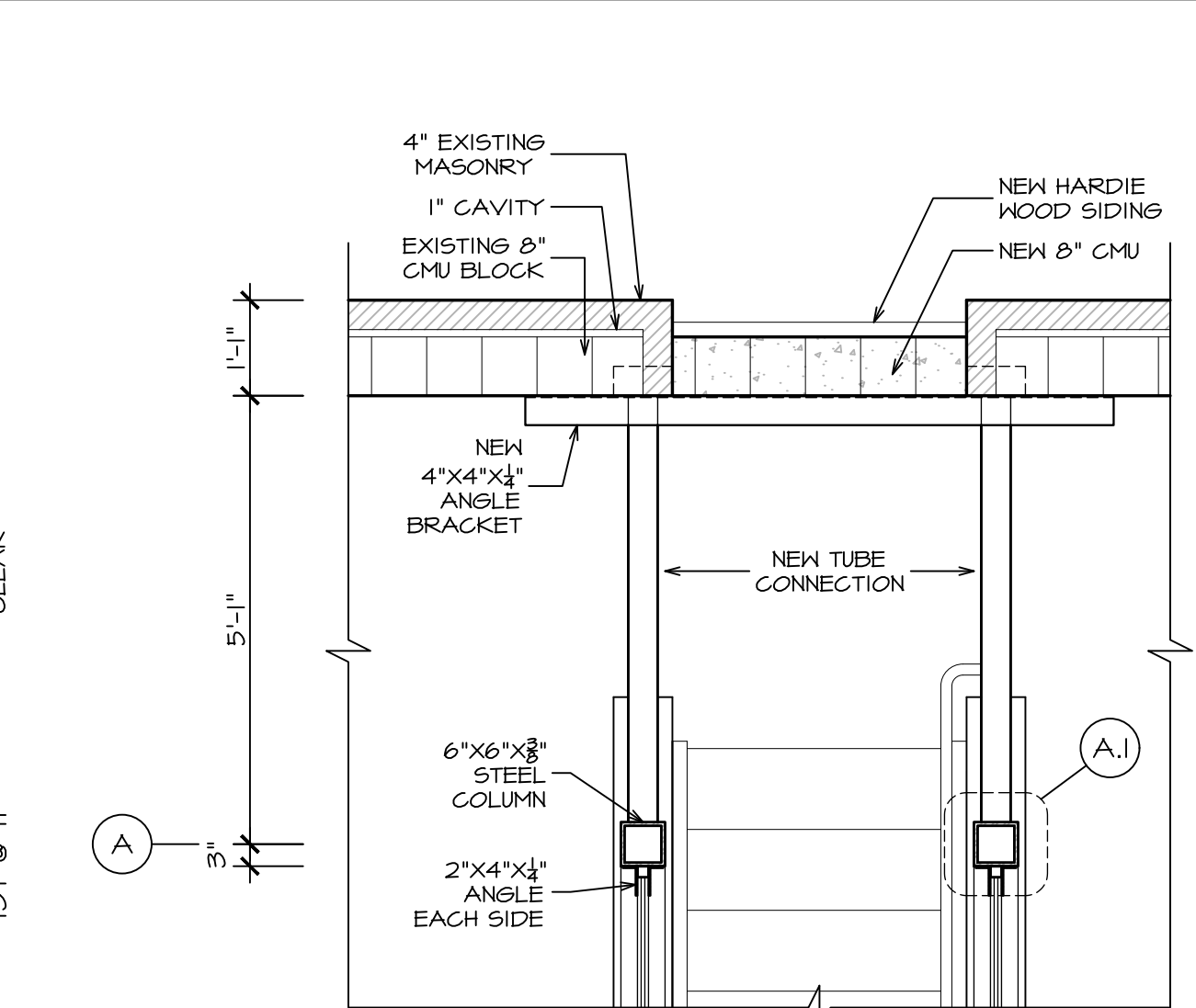
D. BAIL-OUT
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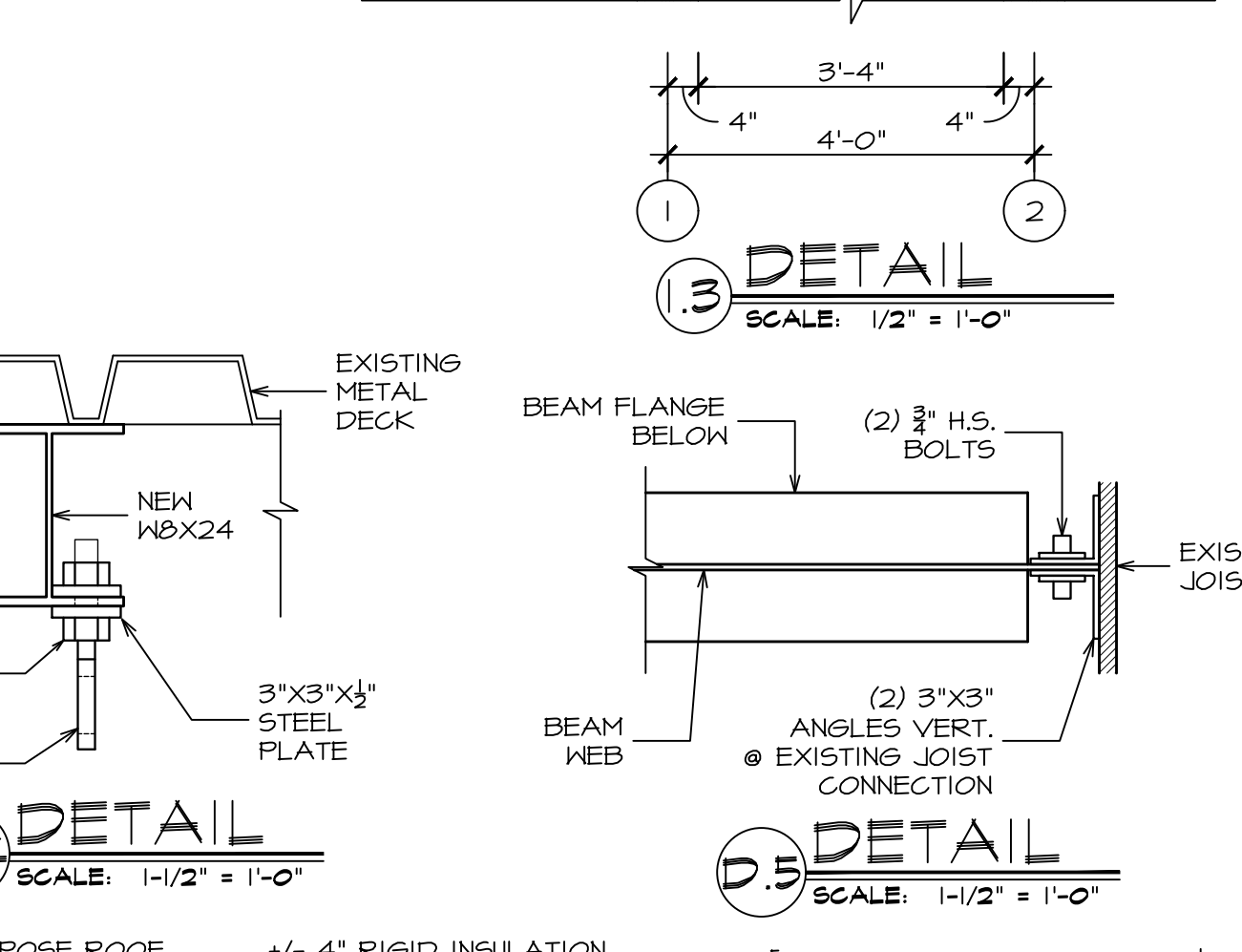
1. DETAIL
SCALE: 1/2" = 1'-0"



2. DETAIL
SCALE: 1-1/2" = 1'-0"

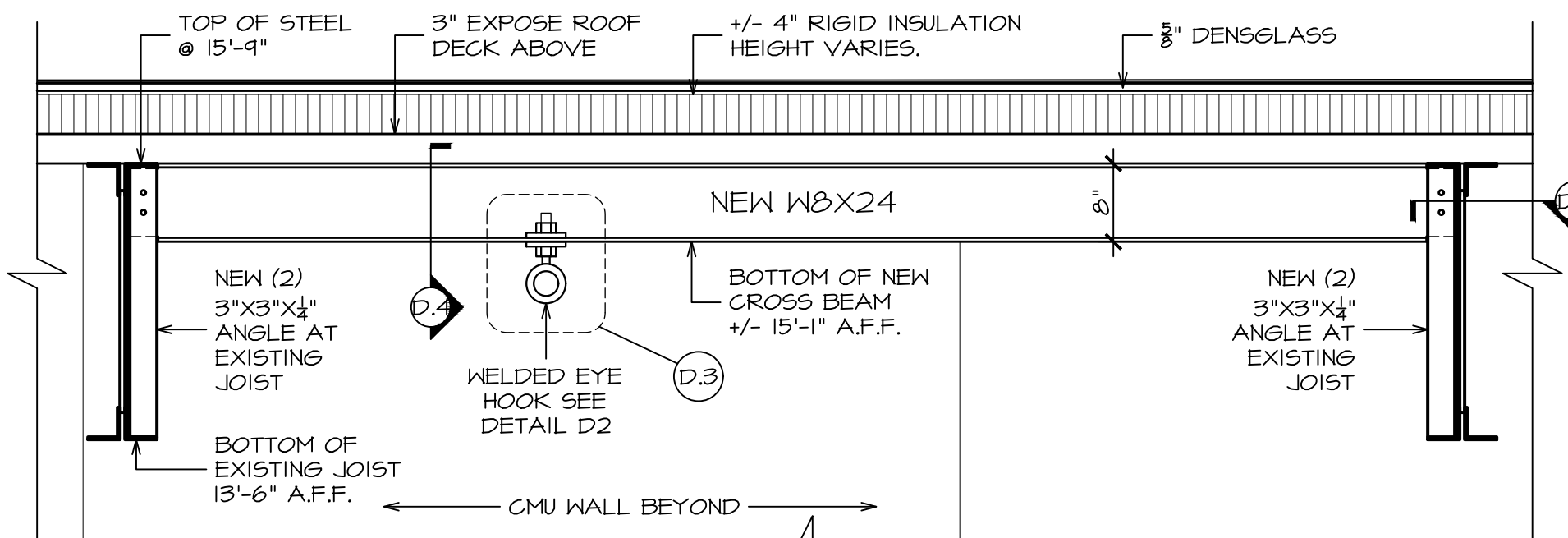


3. DETAIL
SCALE: 1/2" = 1'-0"



4. DETAIL
SCALE: 1-1/2" = 1'-0"

5. DETAIL
SCALE: 1-1/2" = 1'-0"



D.2 CROSS JOIST
SCALE: 3/4" = 1'-0"

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MEZZANINE FLOOR
PLAN & DETAILS

PROJECT #: 2108.01B

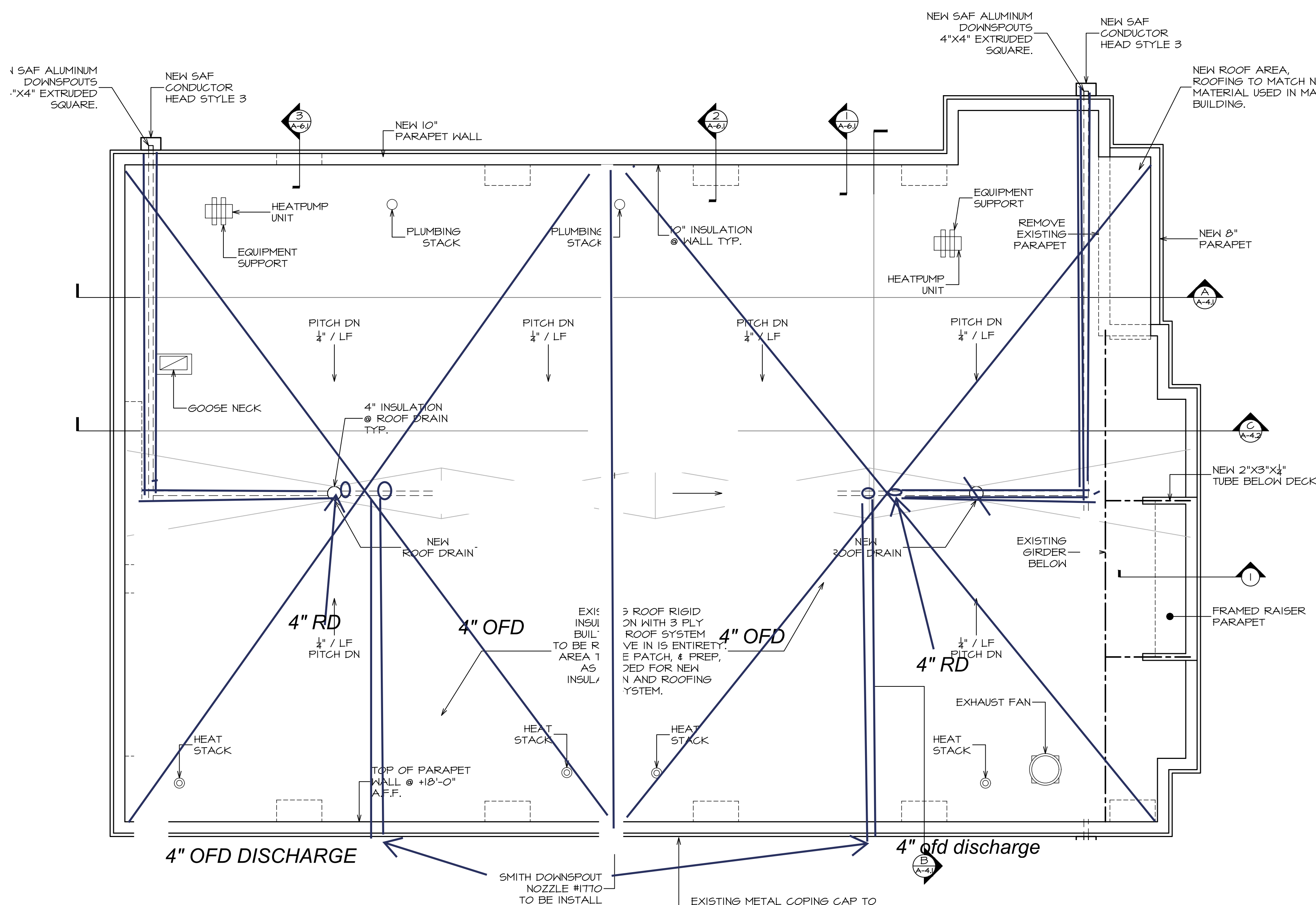
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CAD FILE: 2108.01B/P-/BID

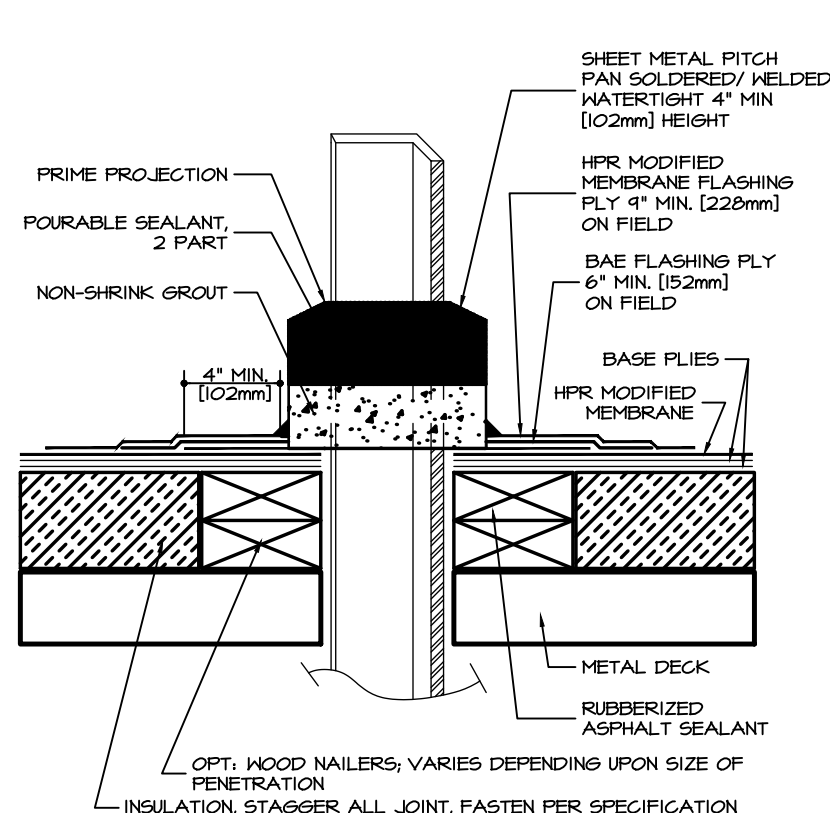
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A-1.2

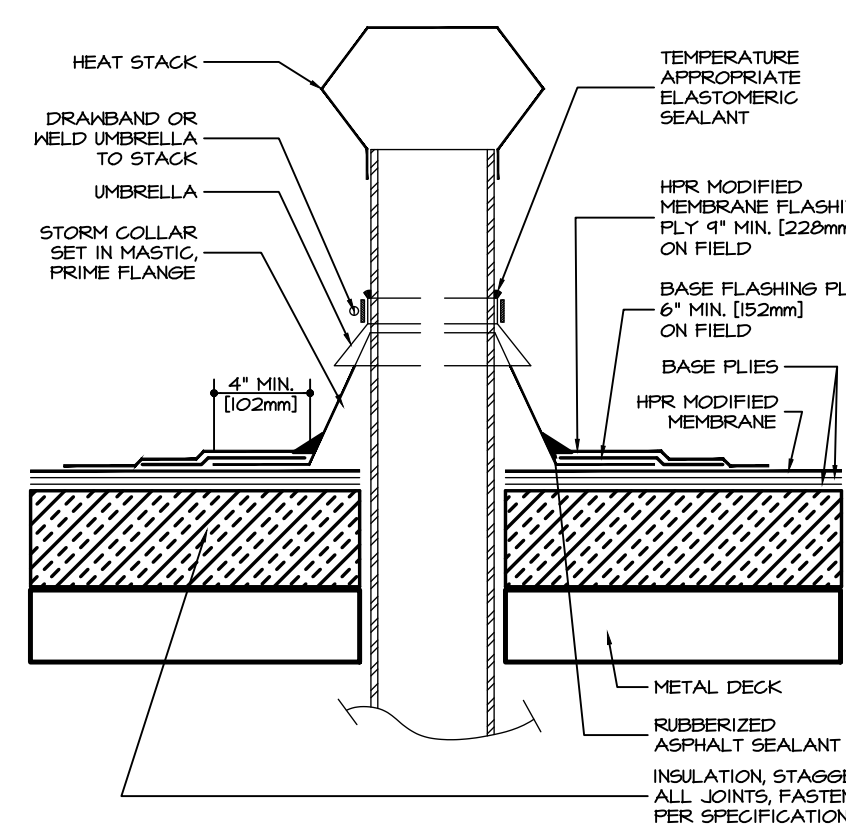
SUB STATION



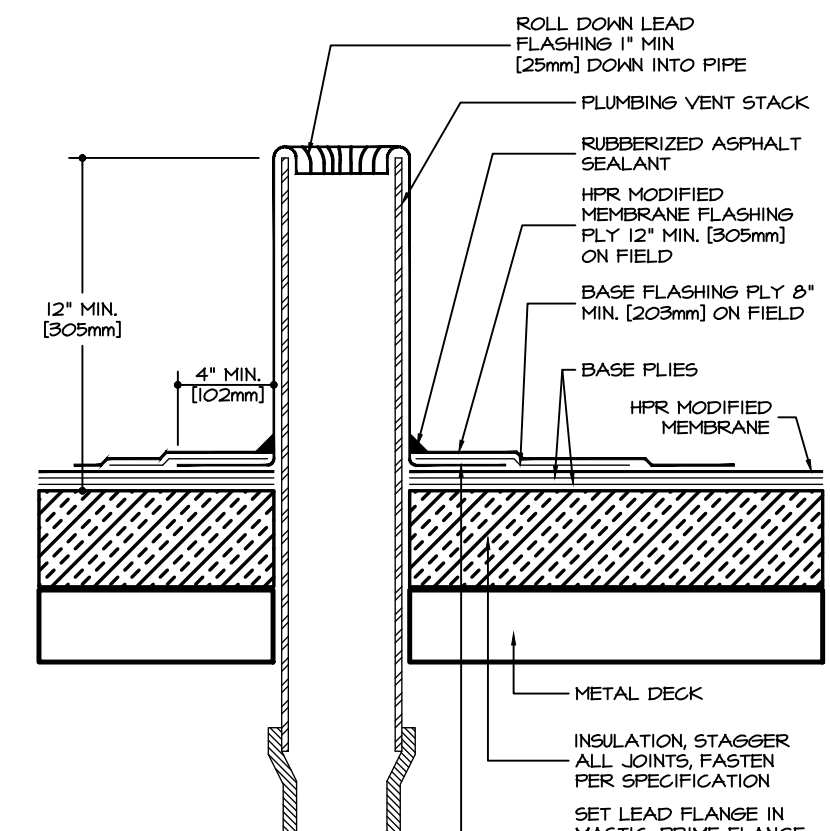
ROOF PLAN
SCALE: 3/16" = 1'-0"



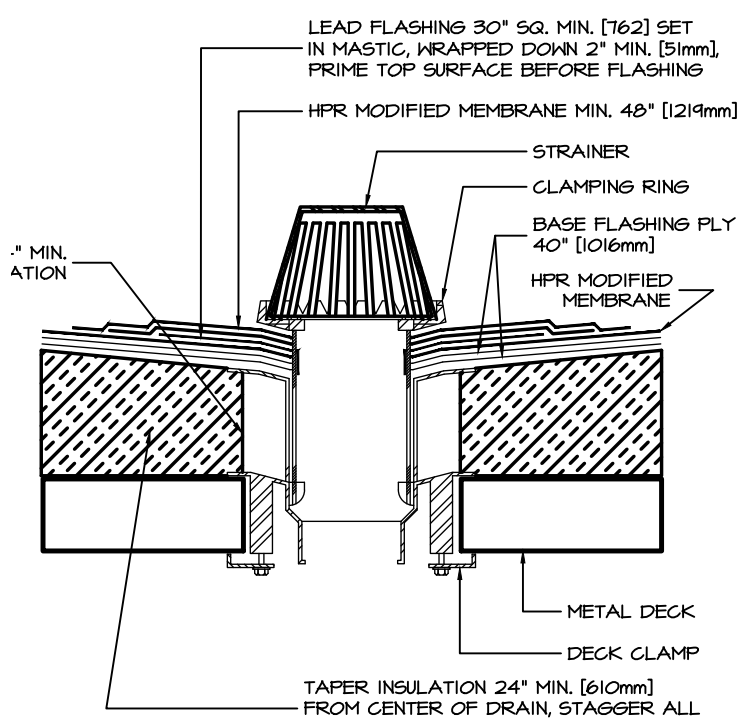
PITCH POCKET DETAIL
SCALE: 1-1/2" = 1'-0"



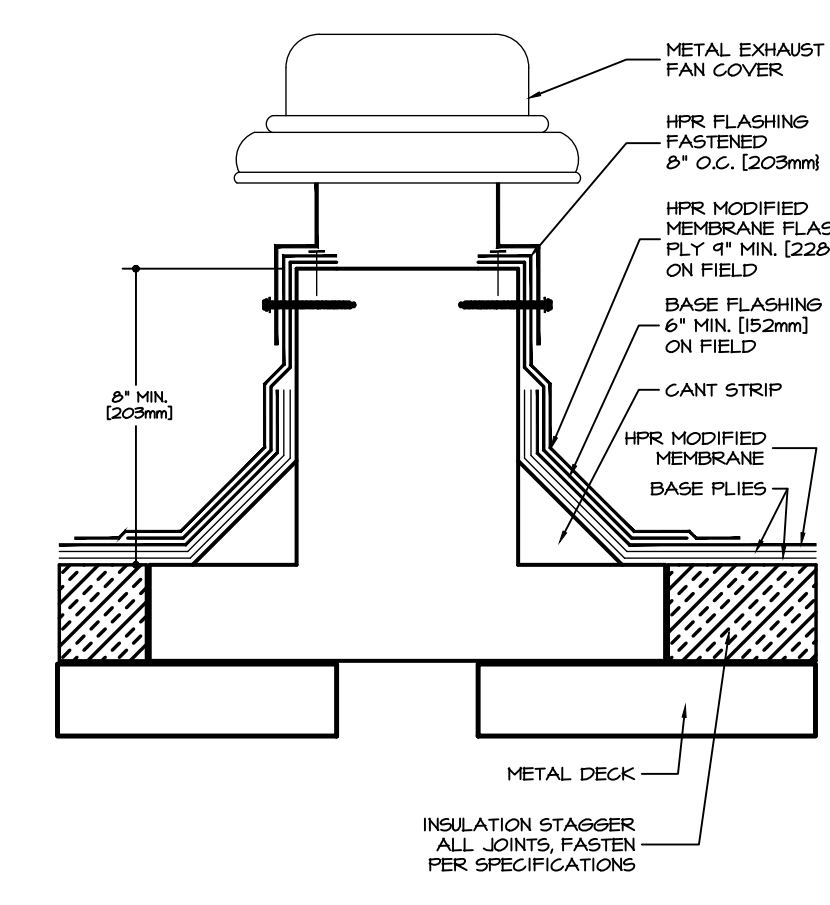
HEAT STACK DETAIL
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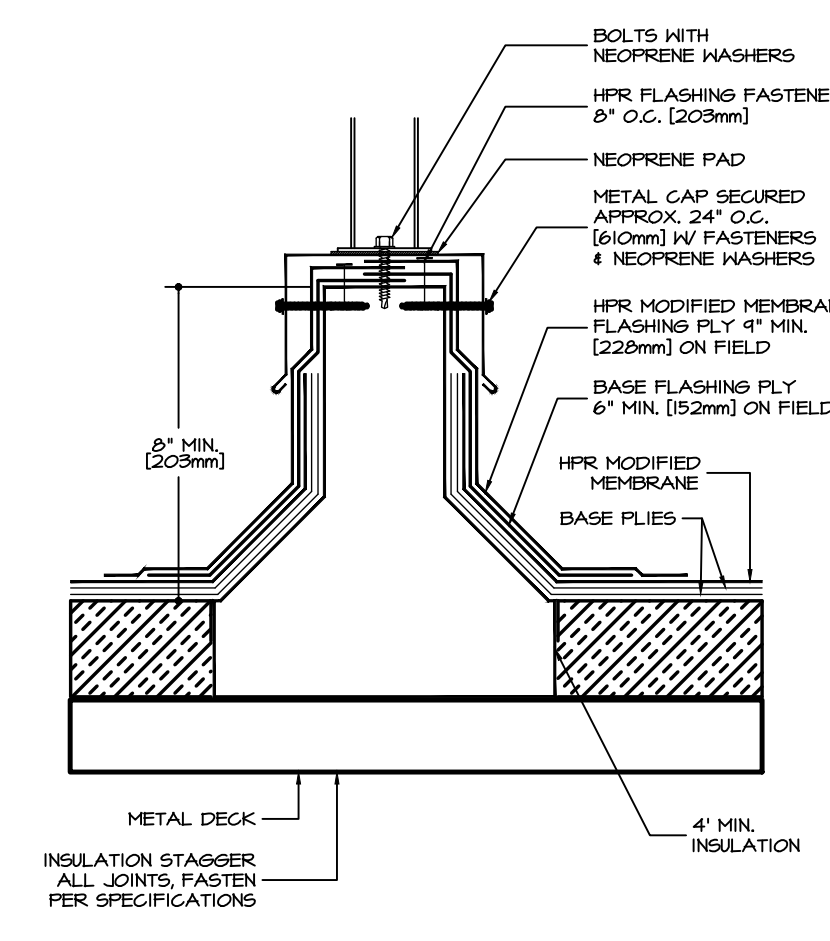
PLUMBING STACK DETAIL
SCALE: 1-1/2" = 1'-0"



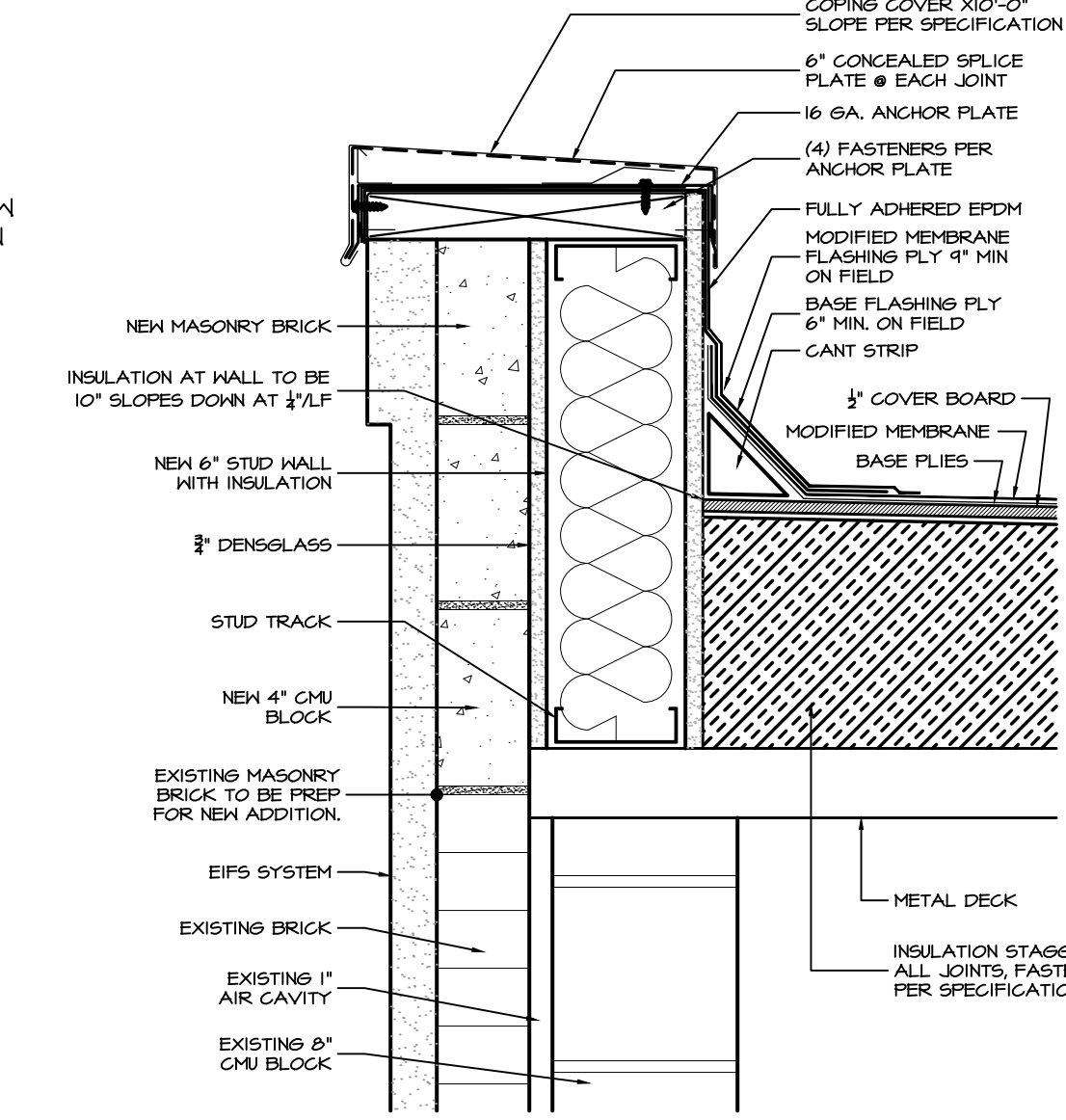
ROOF DRAIN DETAIL
SCALE: 1-1/2" = 1'-0"



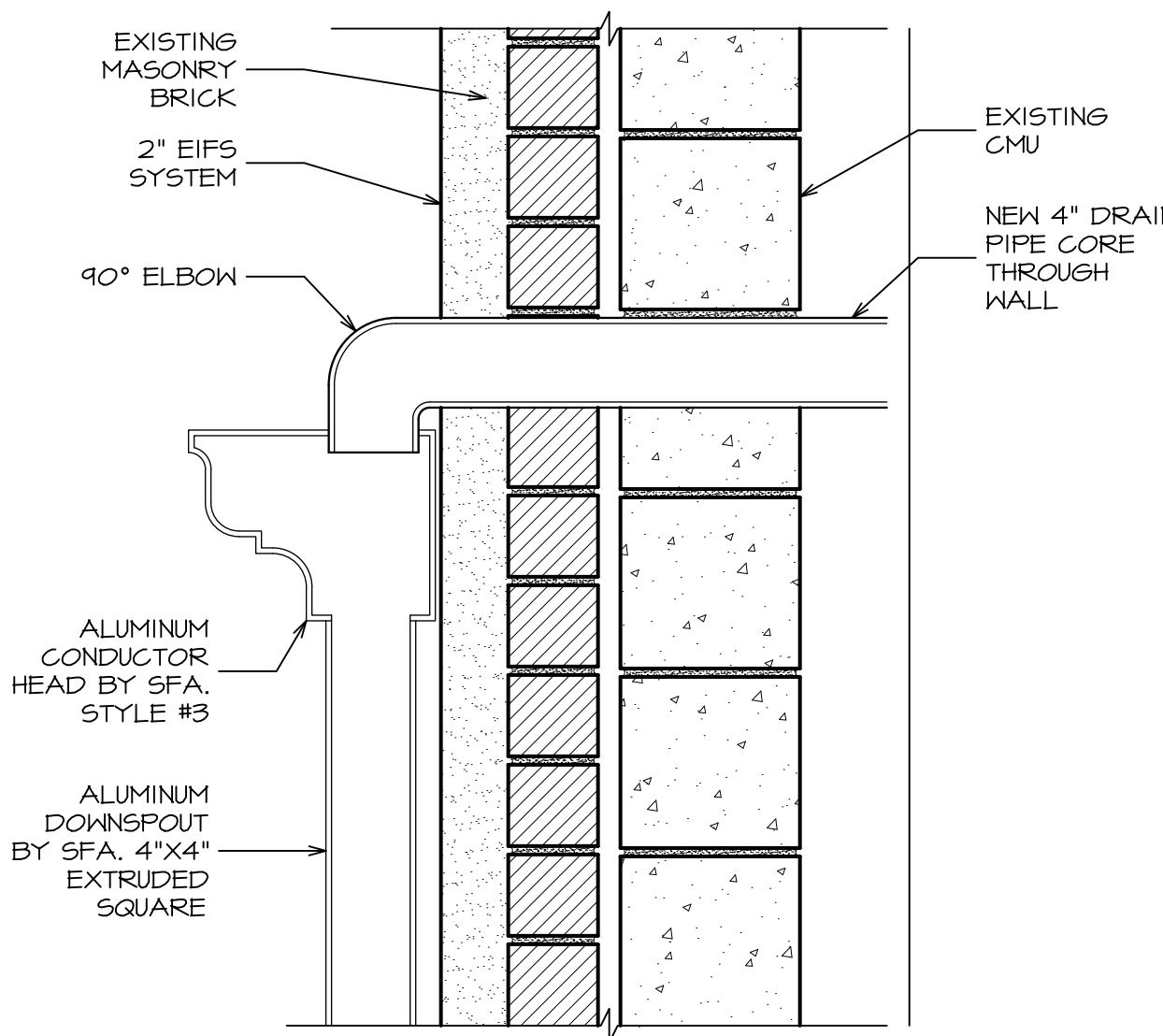
EXHAUST FAN DETAIL
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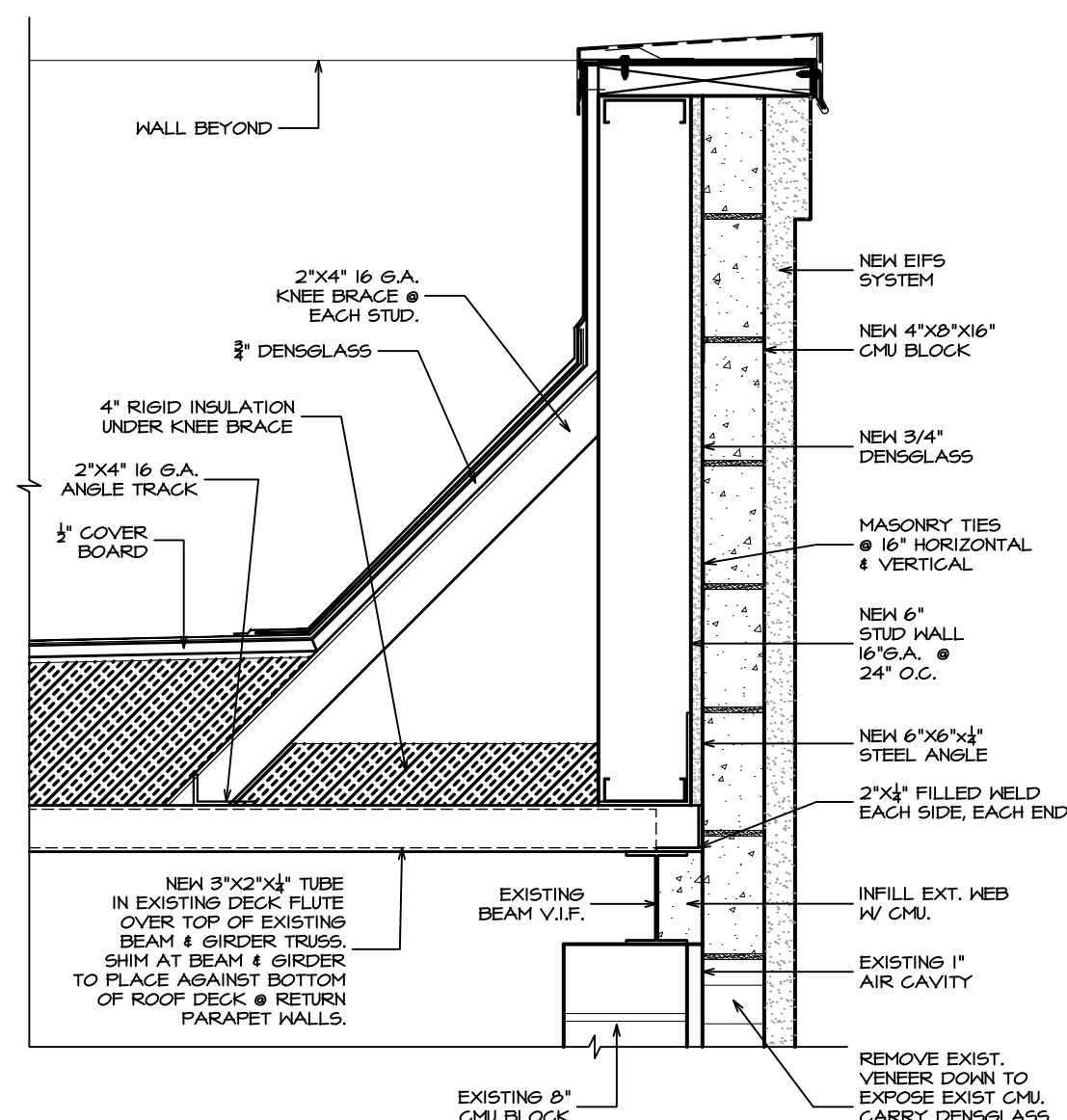
PRE-MANU. CURB FOR EQUIPMENT SUPPORT
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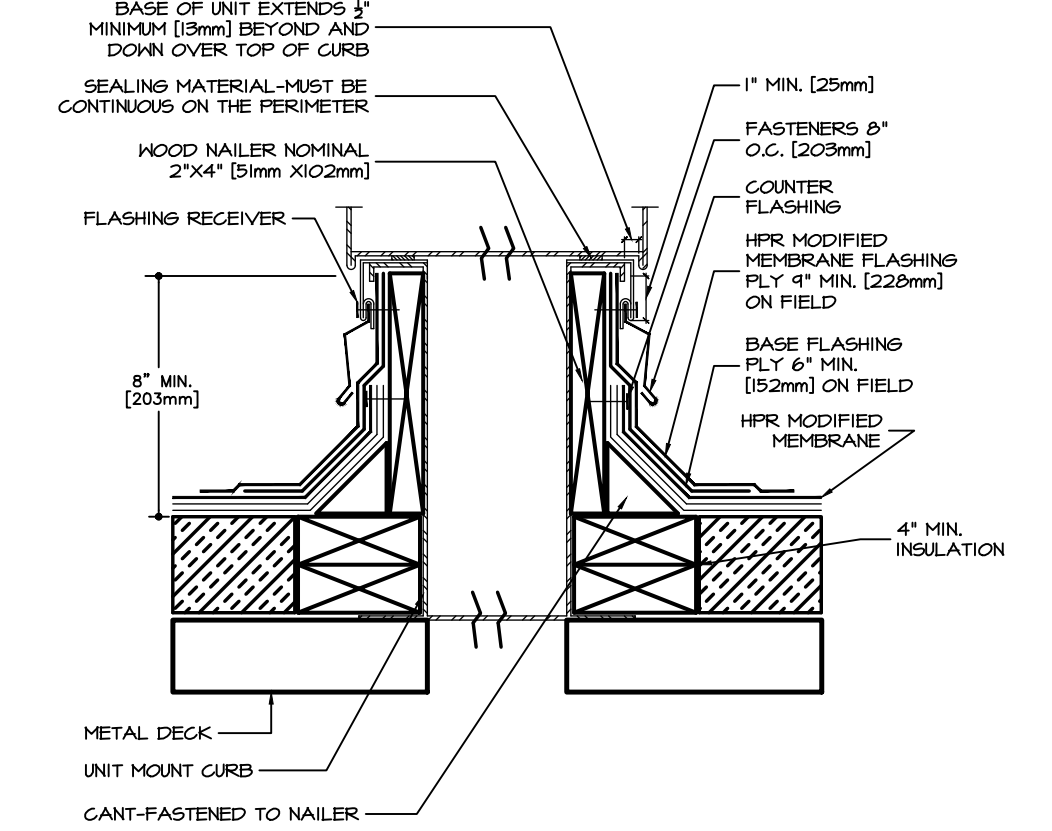
COPING CAP
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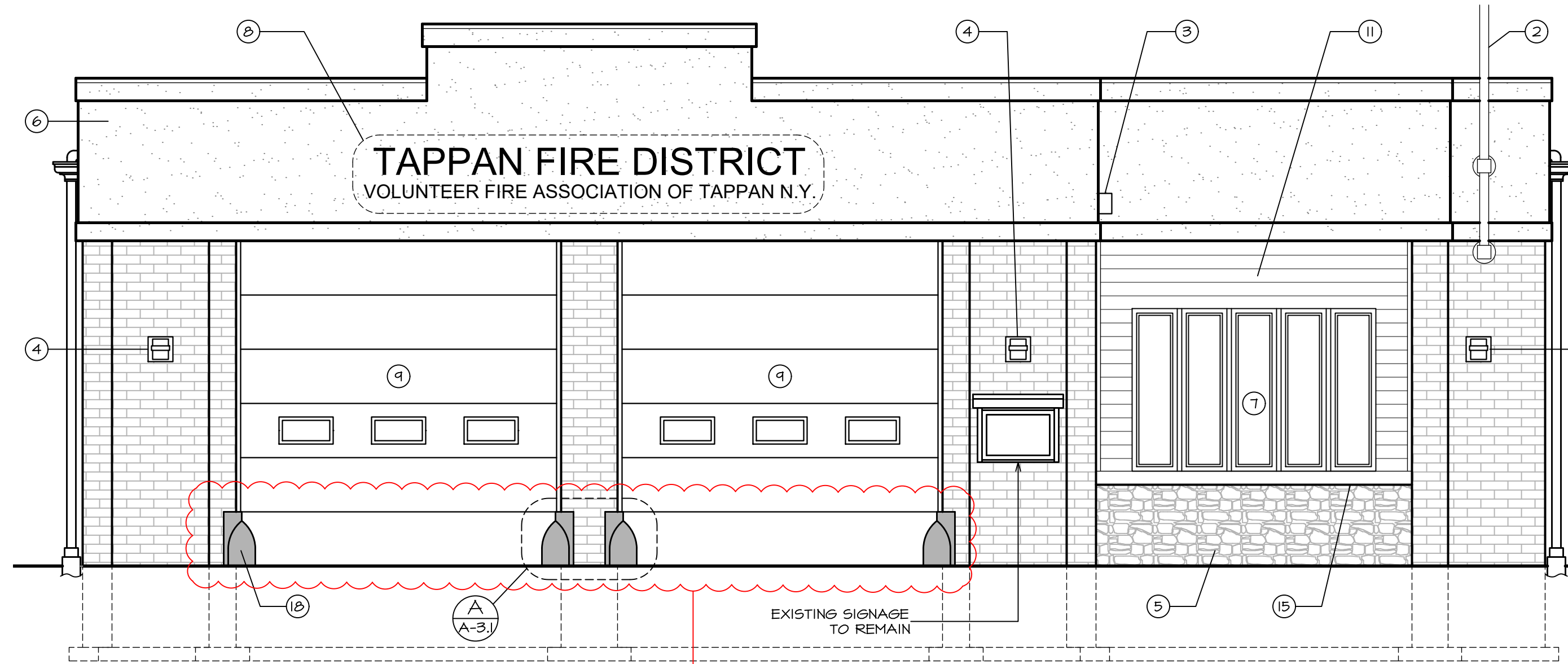
SCUPPER DETAIL
SCALE: 1-1/2" = 1'-0"



ROOF DETAIL
SCALE: 1-1/2" = 1'-0"

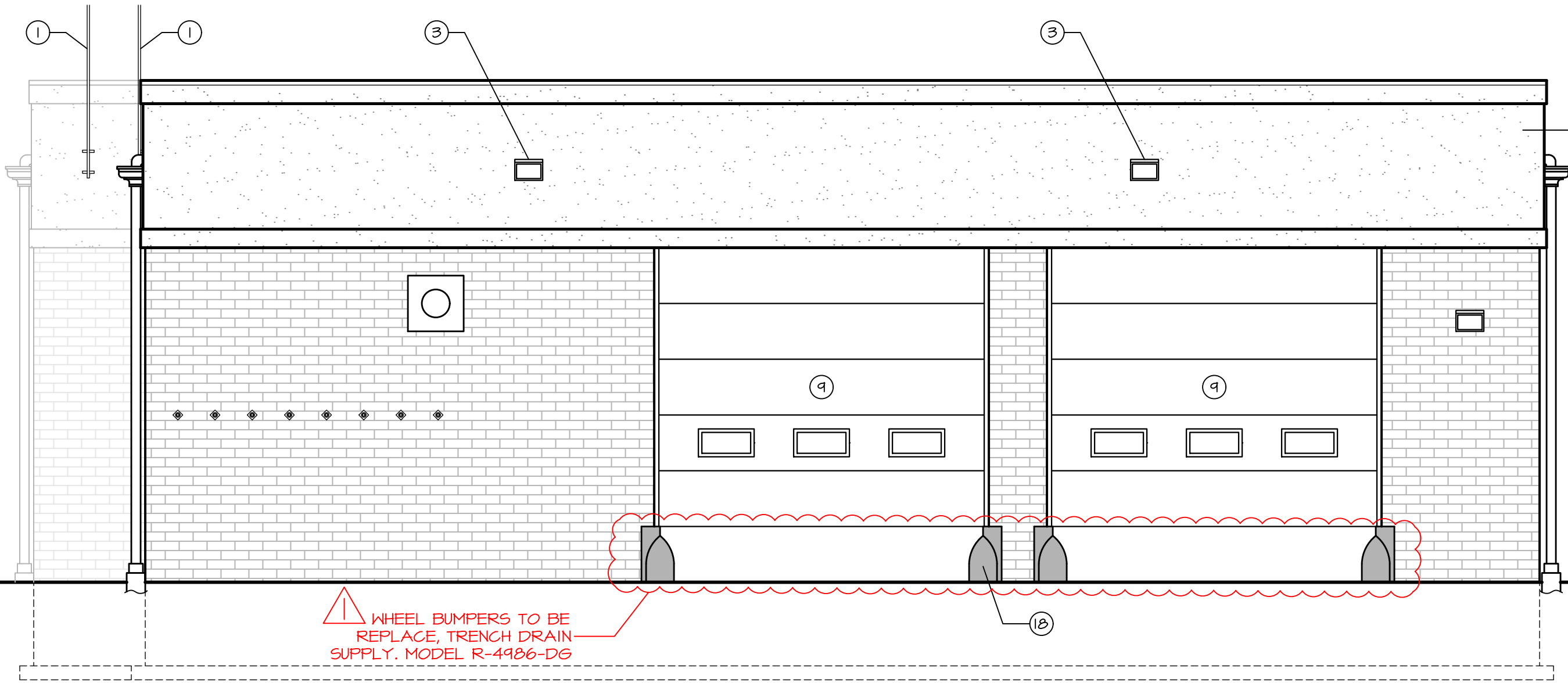


CURB DETAIL
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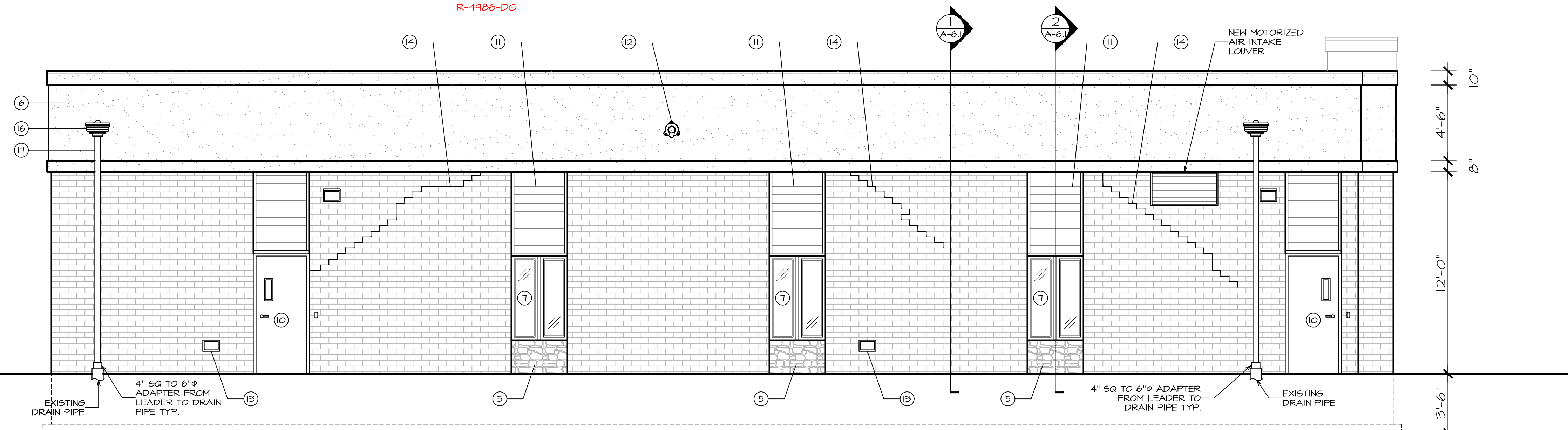
EAST ELEVATION

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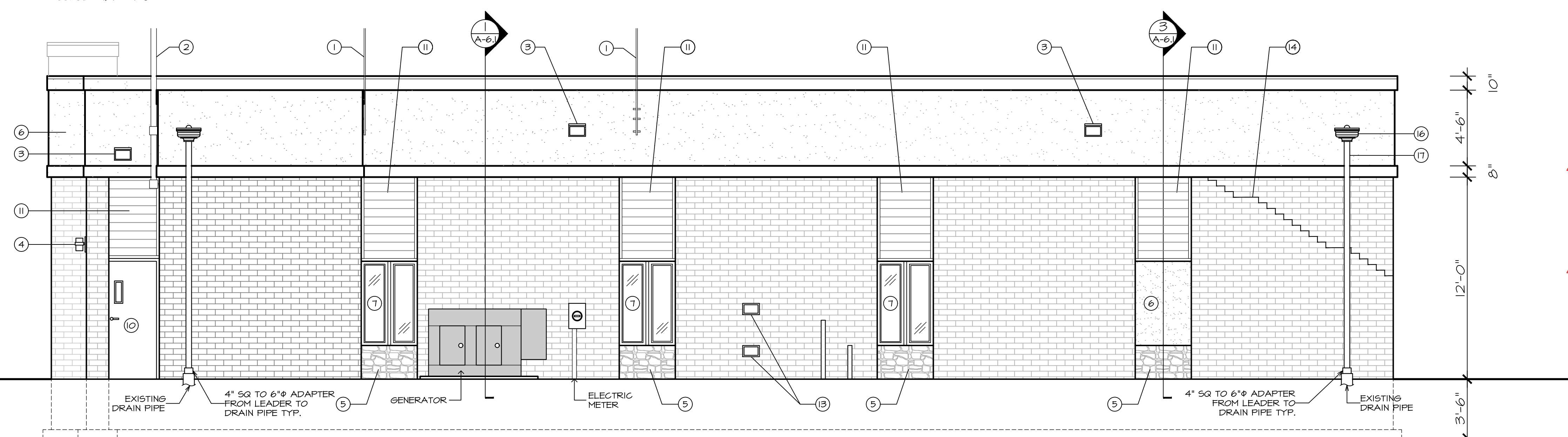
WEST ELEVATION

SCALE: 1/4" = 1'-0"



NORTH ELEVATION

SCALE: 1/4" = 1'-0"

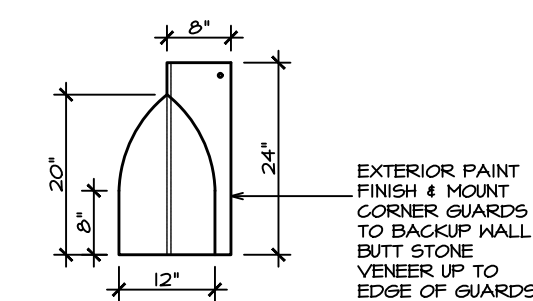


SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

NOTES

- EXISTING ANTENNAS TO BE REMOVE & REINSTALL.
- EXISTING FLAG POLE TO REMAIN. COORDINATE NEW EIFS SYSTEM FINISH AND CAULKING AROUND EXISTING CONNECTION.
- EXISTING LIGHT FIXTURE TO BE REMOVE & REINSTALL.
- NEW LED WALL SCONCE POSSINI EURO FRAMED BRUSHED NICKEL LAMPS
- NEW CULTURE STONE TO BE INSTALLED SEE DETAILS DWG A-6.1
- NEW EIFS SYSTEM TO BE INSTALLED SEE DETAILS IN DWG A-4.2
- EXISTING WINDOWS TO REMAIN.
- TAPPAN FIRE DISTRICT SIGN TO BE REMOVE PAINTED & REINSTALLED WITH NEW STAND OFF HARDWARE & ANCHORS.
- EXISTING O.H.D. TO REMAIN IN BASE BID. (NEW O.H.D. TO BE INSTALL AS ADD ALTERNATE)
- NEW DOOR & FRAME TO BE INSTALLED.
- NEW HARDI PLANK TO BE INSTALLED.
- DOWNPOUT NOZZLE BY MFG FIGURE NUMBER IT70
- EXISTING VENTS TO BE REMOVE. AREA TO BE FILL IN AND PATCH THE SURROUNDING AREA AS NEEDED TO MATCH EXISTING BRICK & MORTAR.
- RAKE OUT EXISTING JOINTS AS REQUIRED FOR RE-POINTING. FIELD REVIEW ALL AREAS WITH ARCHITECT PRIOR TO PROCEEDING. ALL JOINTS TO BE RE-POINTED WITH NEW MORTAR TO MATCH EXISTING.
- NEW 1"x6" HARDI PLANK TRIM UNDER WINDOW FULL WIDTH
- NEW SAF ALUMINUM CONDUCTOR HEAD STYLE 3
- NEW SAF ALUMINUM DOWNSPOUTS 4"x4" EXTRUDED SQUARE & RECTANGULAR
- 24"x12" HEAVY DUTY CAST IRON WHEEL GUARD BY TRENCH DRAIN SUPPLY (MODEL: R-4486-DG) WITH PAINT FINISH, COLOR SELECTED BY OWNER.



WHEEL GUARD DETAIL

SCALE: 1/2" = 1'-0"

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TAPPAN FIRE DISTRICT
300 WESTERN HIGHWAY SOUTH
TAPPAN, NY 10983

ELEVATIONS & NOTES

PROJECT #: 2108.01B

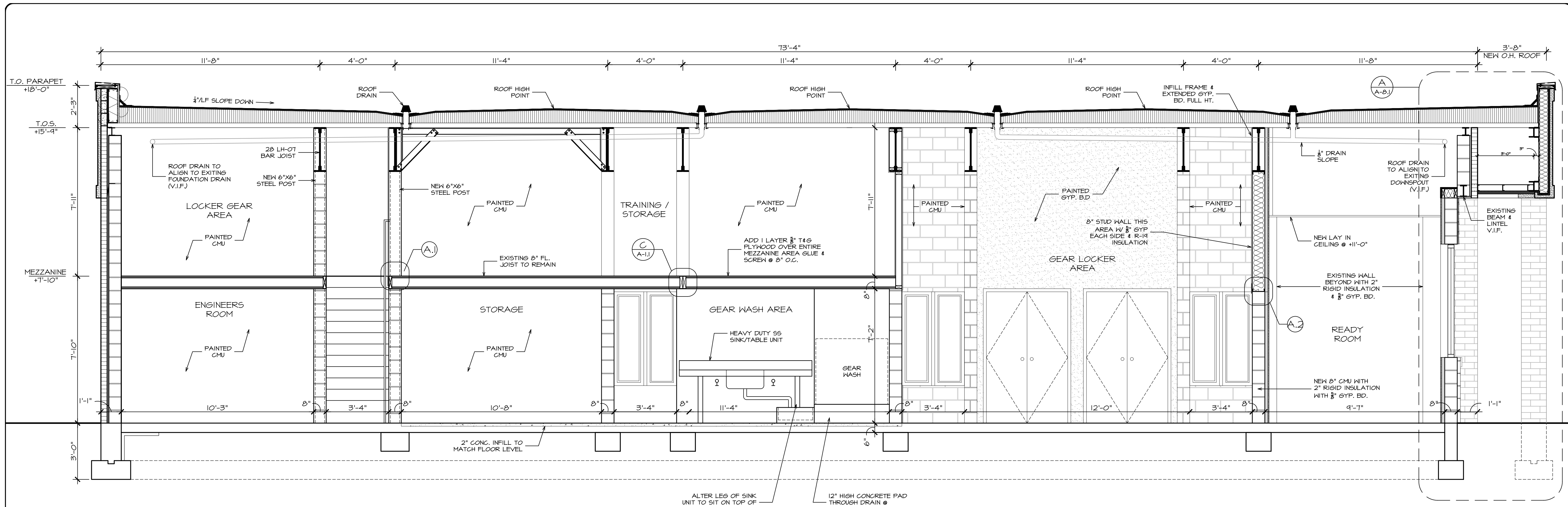
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CAD FILE: 2108.01B/P-/BID

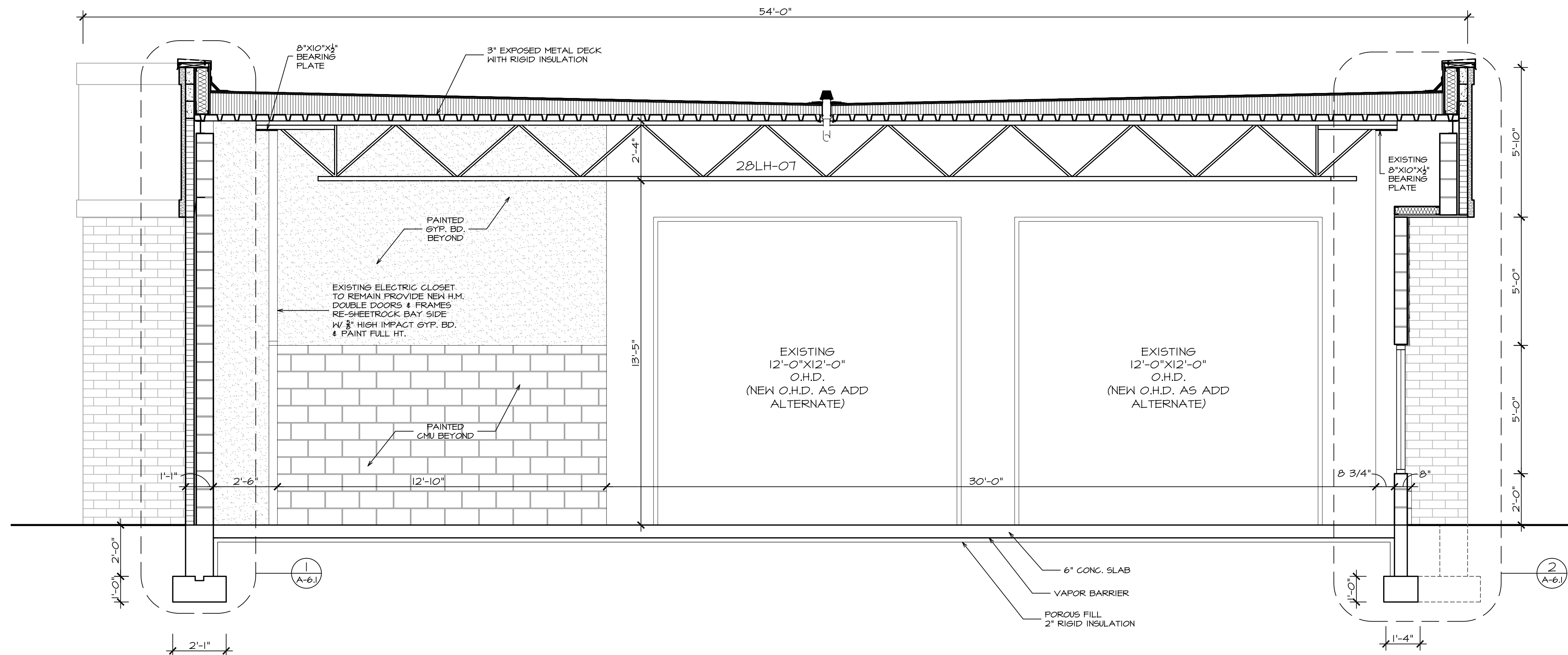
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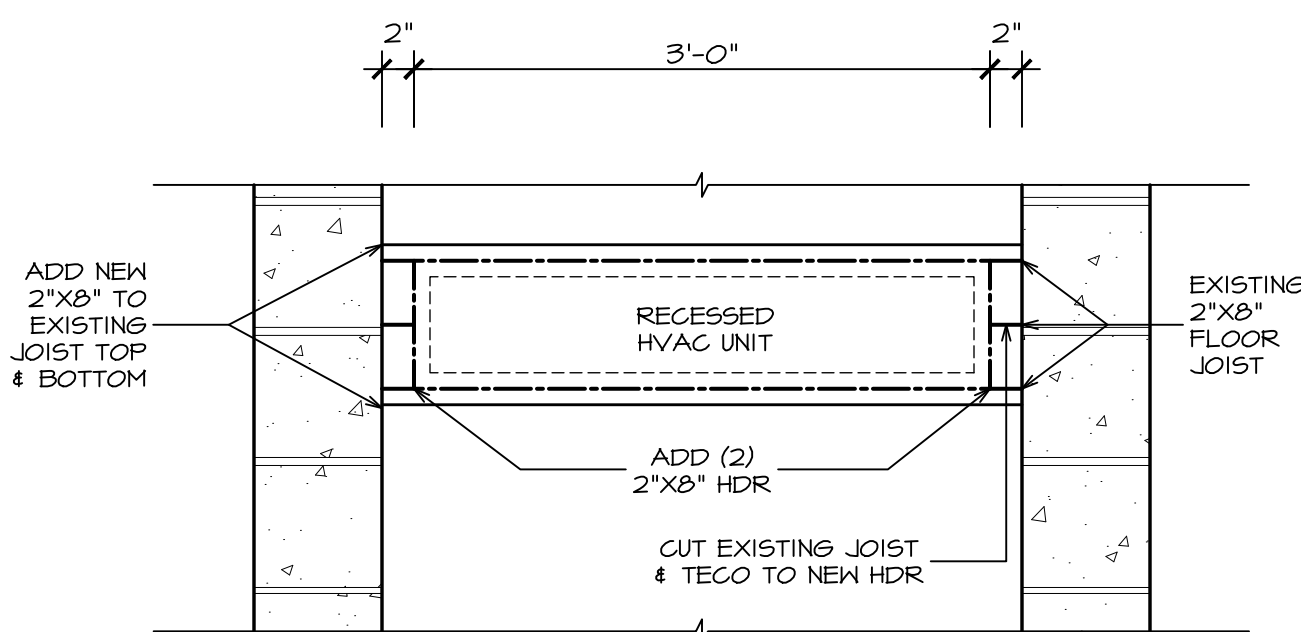
SUB STATION



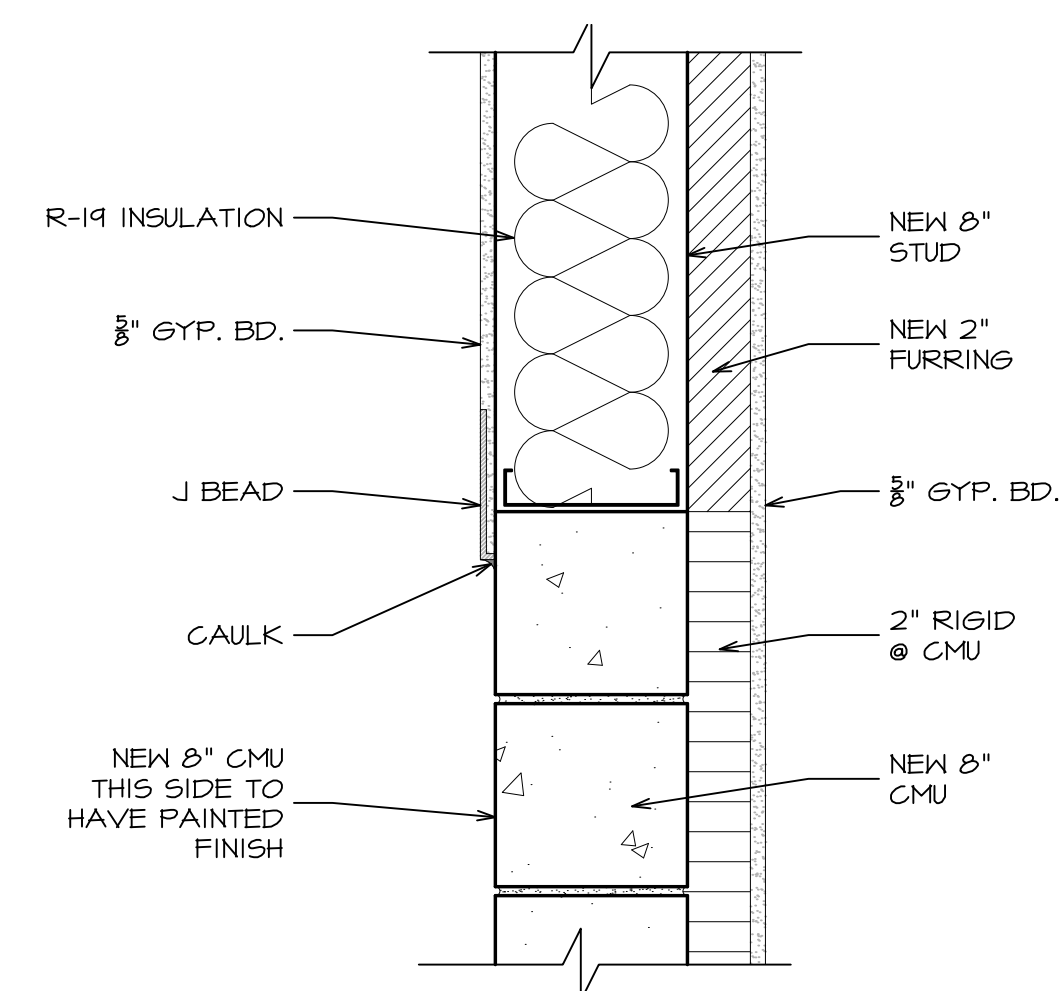
A SECTION
SCALE: 3/8" = 1'-0"



B SECTION
SCALE: 3/8" = 1'-0"



A-1 SECTION
SCALE: 1" = 1'-0"



A-2 SECTION
SCALE: 1-1/2" = 1'-0"

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TAPPAN FIRE DISTRICT
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SECTION & DETAILS

PROJECT #: 2108.01B

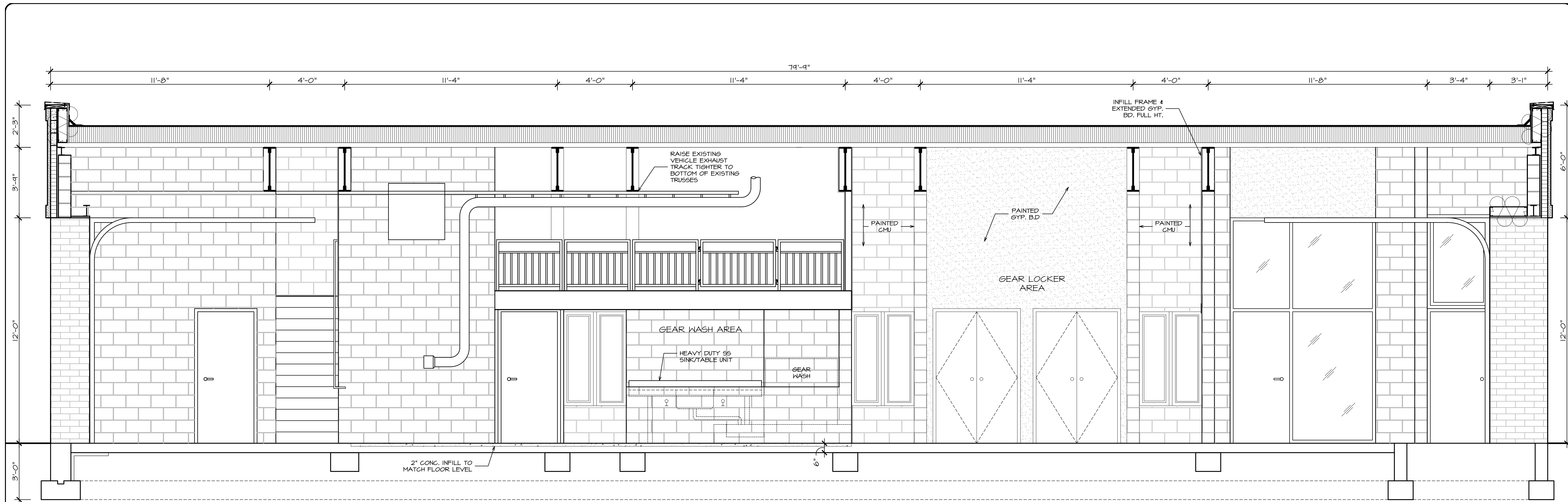
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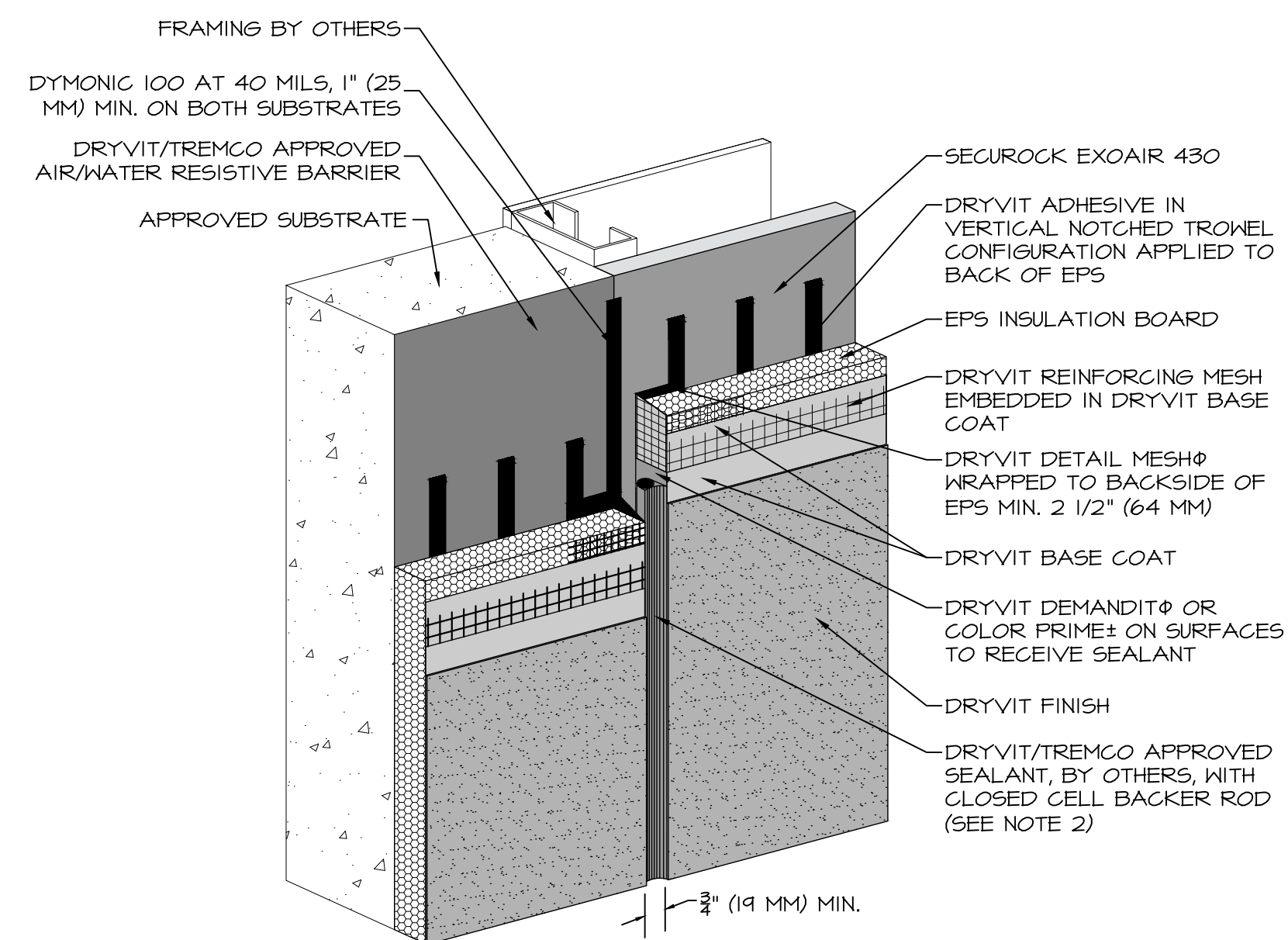
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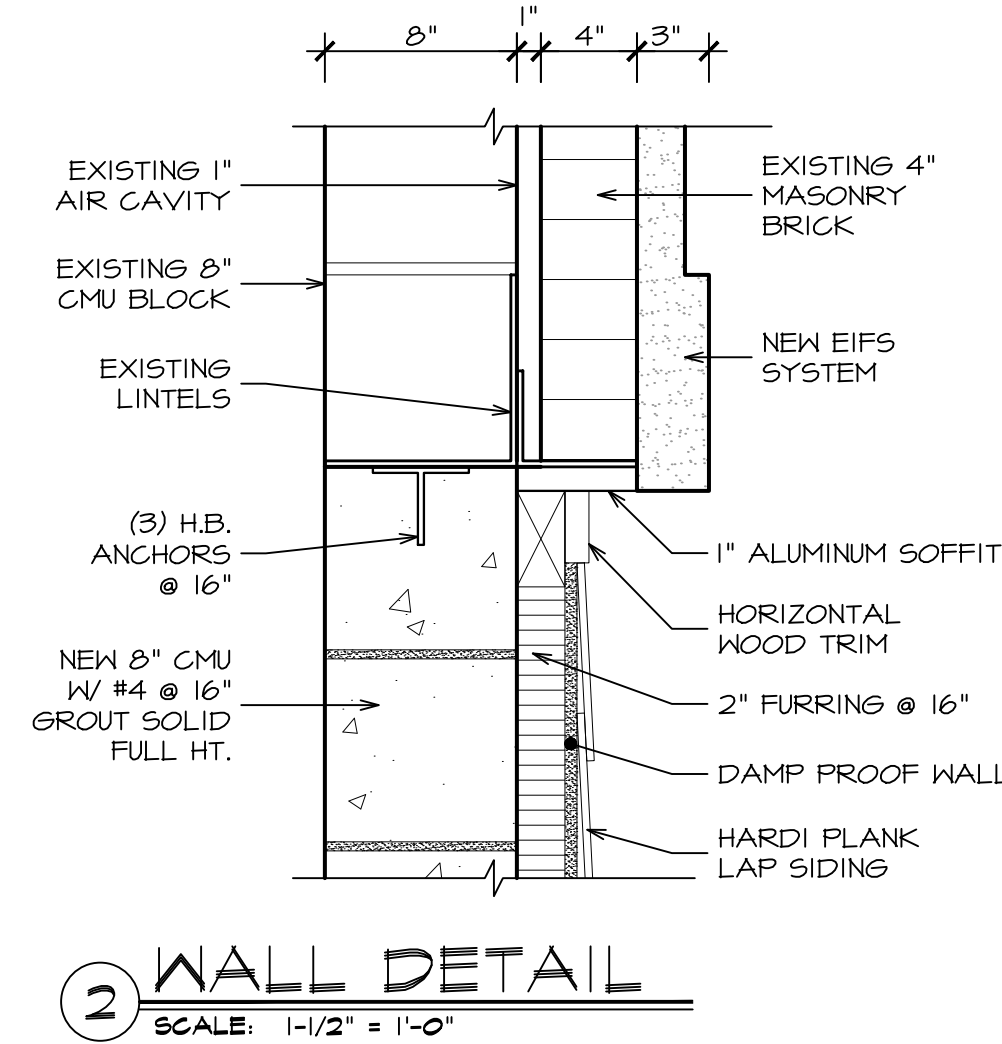
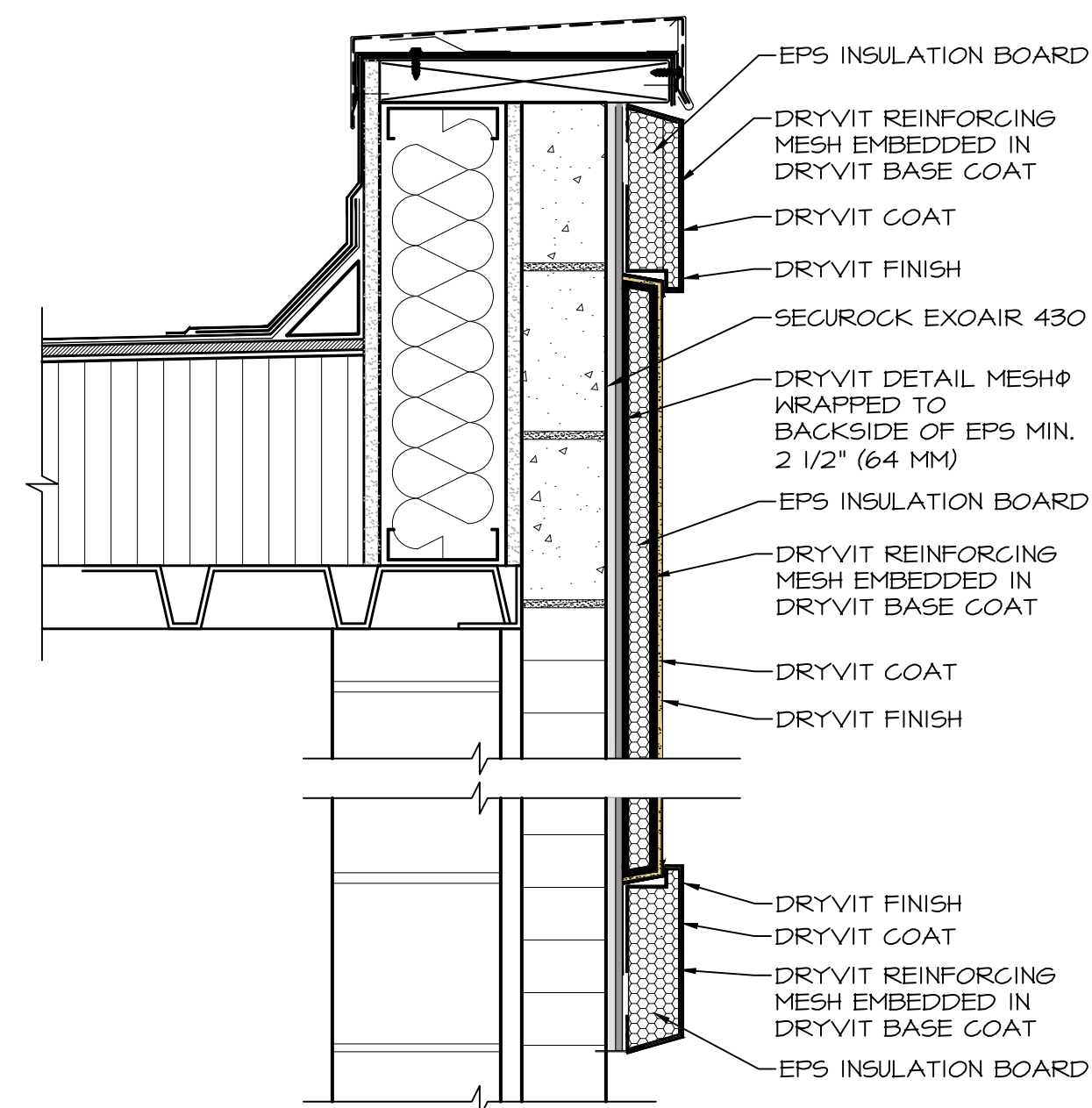
SUB STATION



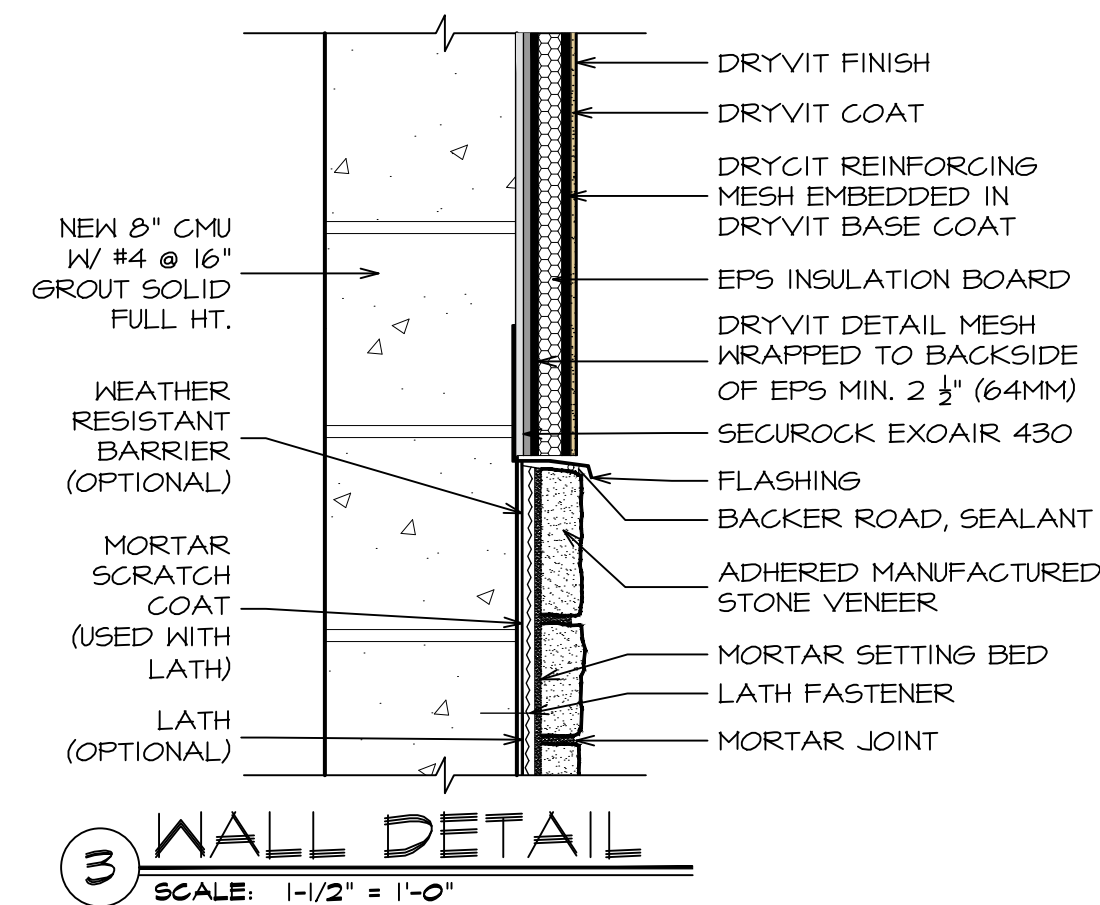
SECTION
SCALE: 3/8" = 1'-0"



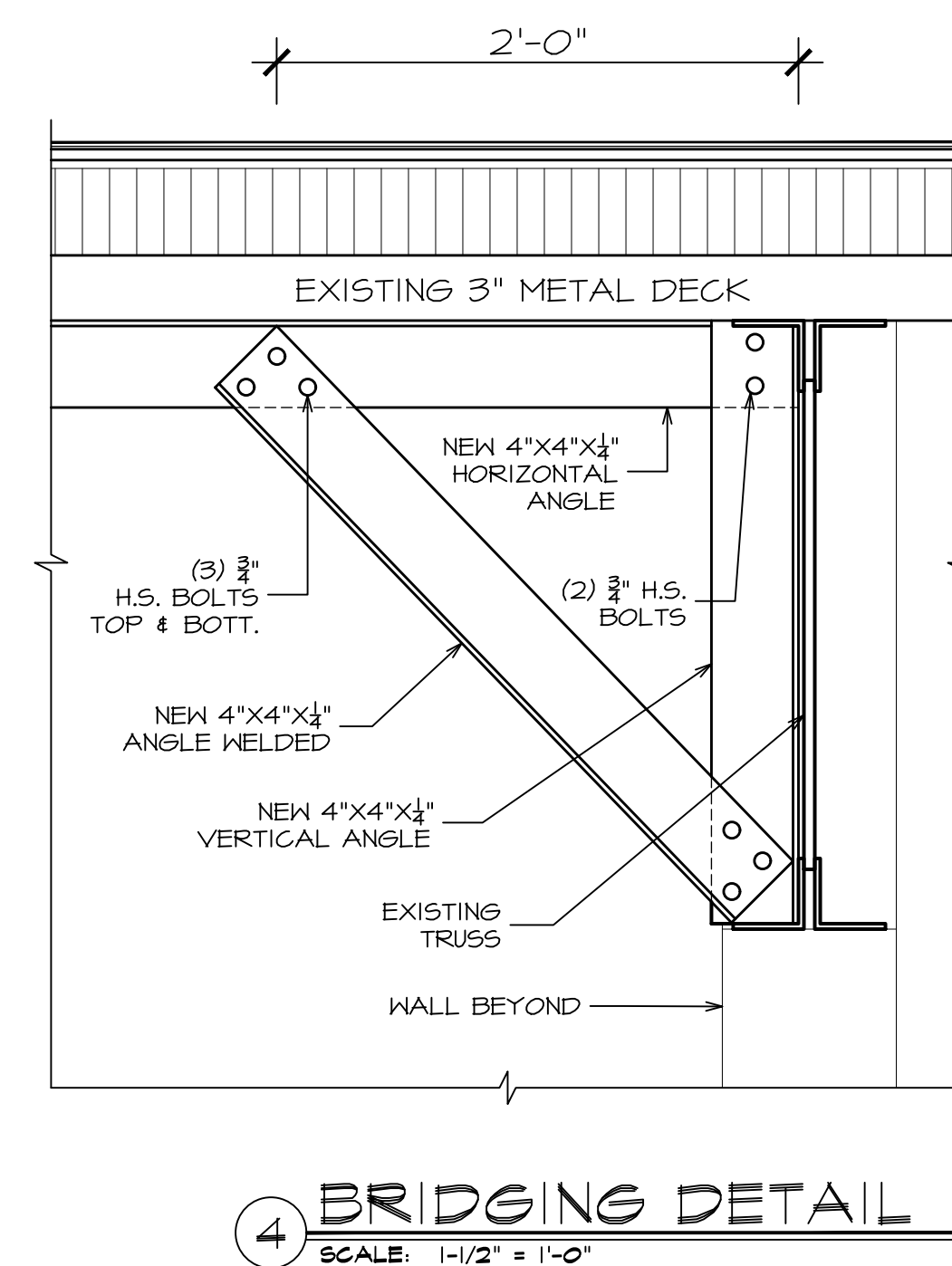
1 EIFS SYSTEM DETAILS
SCALE: 1-1/2" = 1'-0"



2 WALL DETAIL
SCALE: 1-1/2" = 1'-0"



3 WALL DETAIL
SCALE: 1-1/2" = 1'-0"



4 BRIDGING DETAIL
SCALE: 1-1/2" = 1'-0"

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TAPPAN FIRE DISTRICT
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SECTION & DETAILS

PROJECT #: 2108.01B

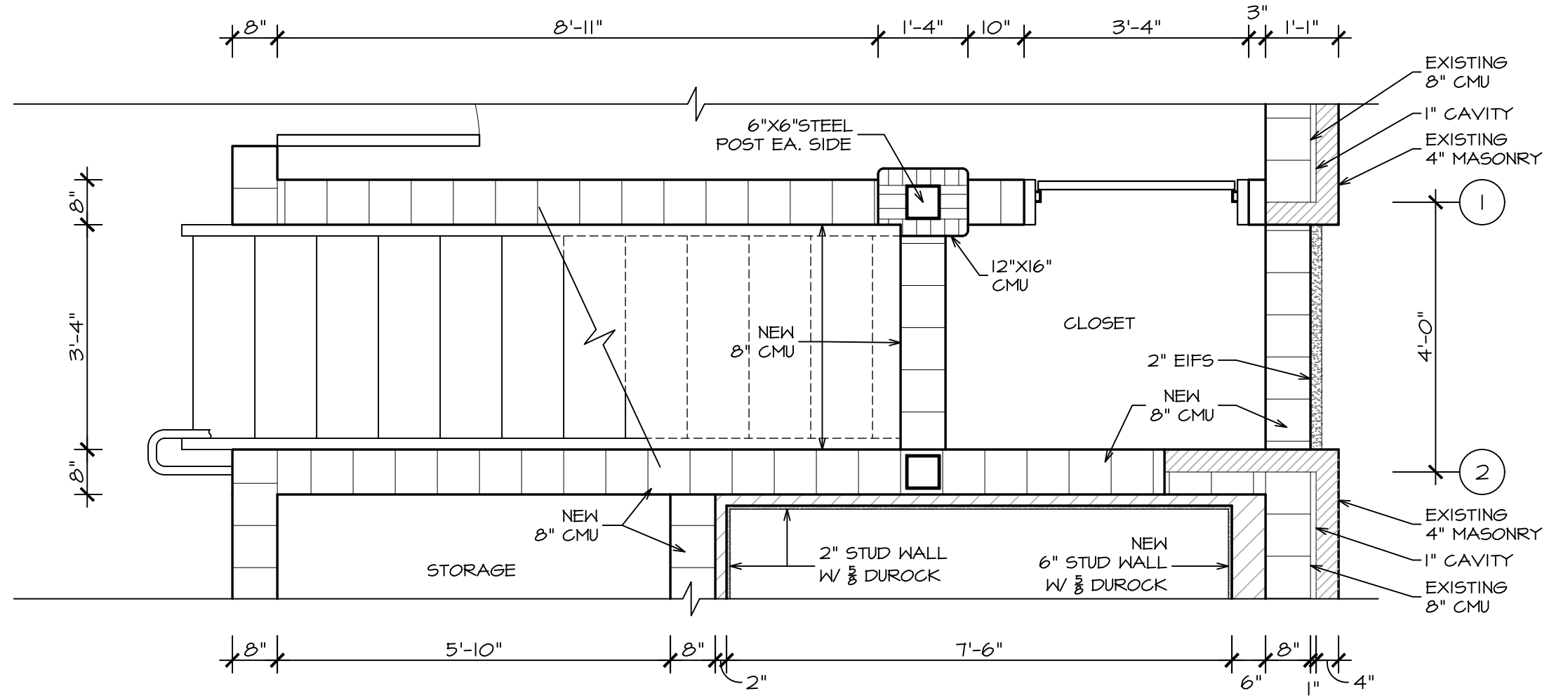
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CAD FILE: 2108.01B/P./BID

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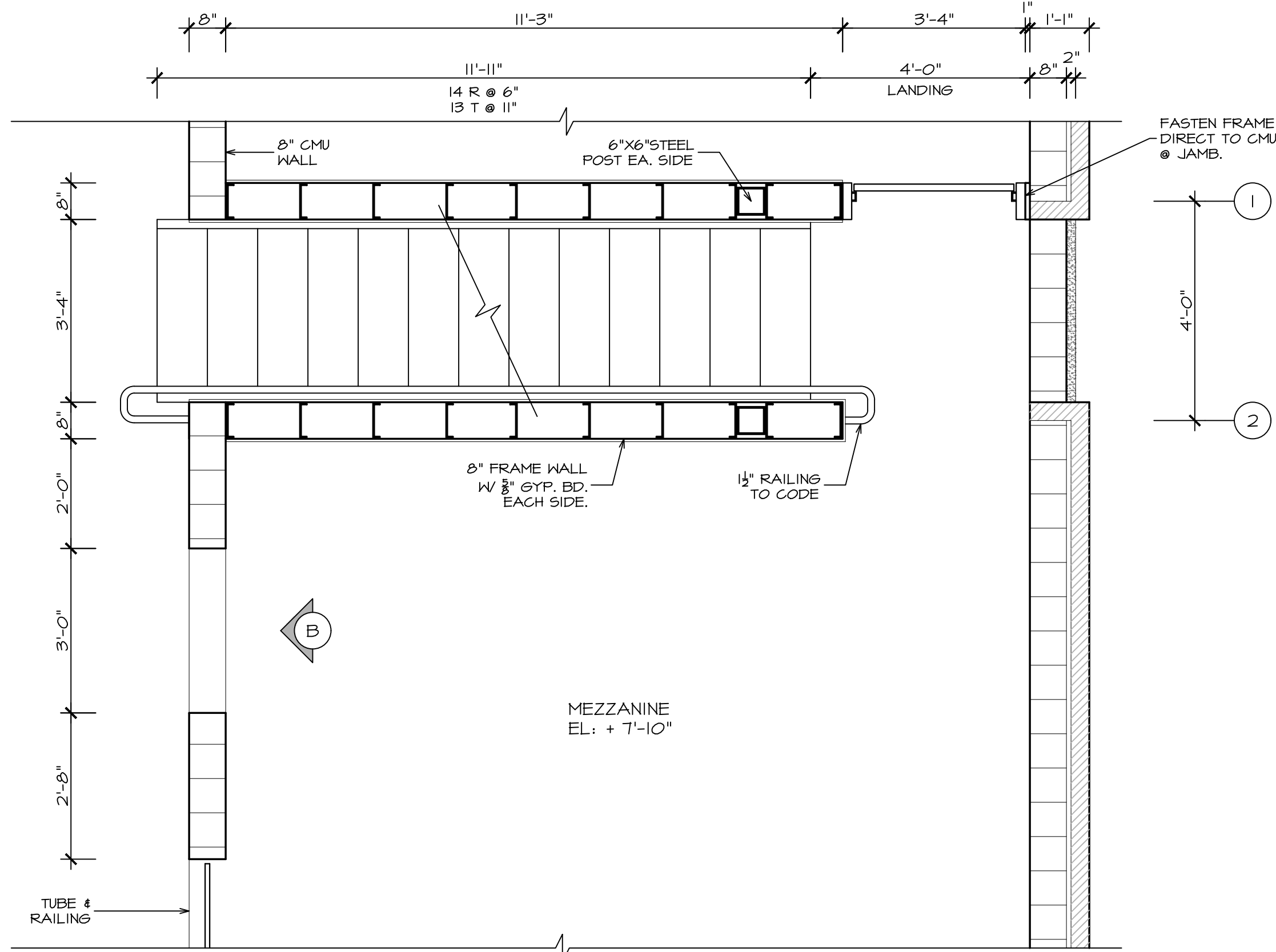
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SUB STATION



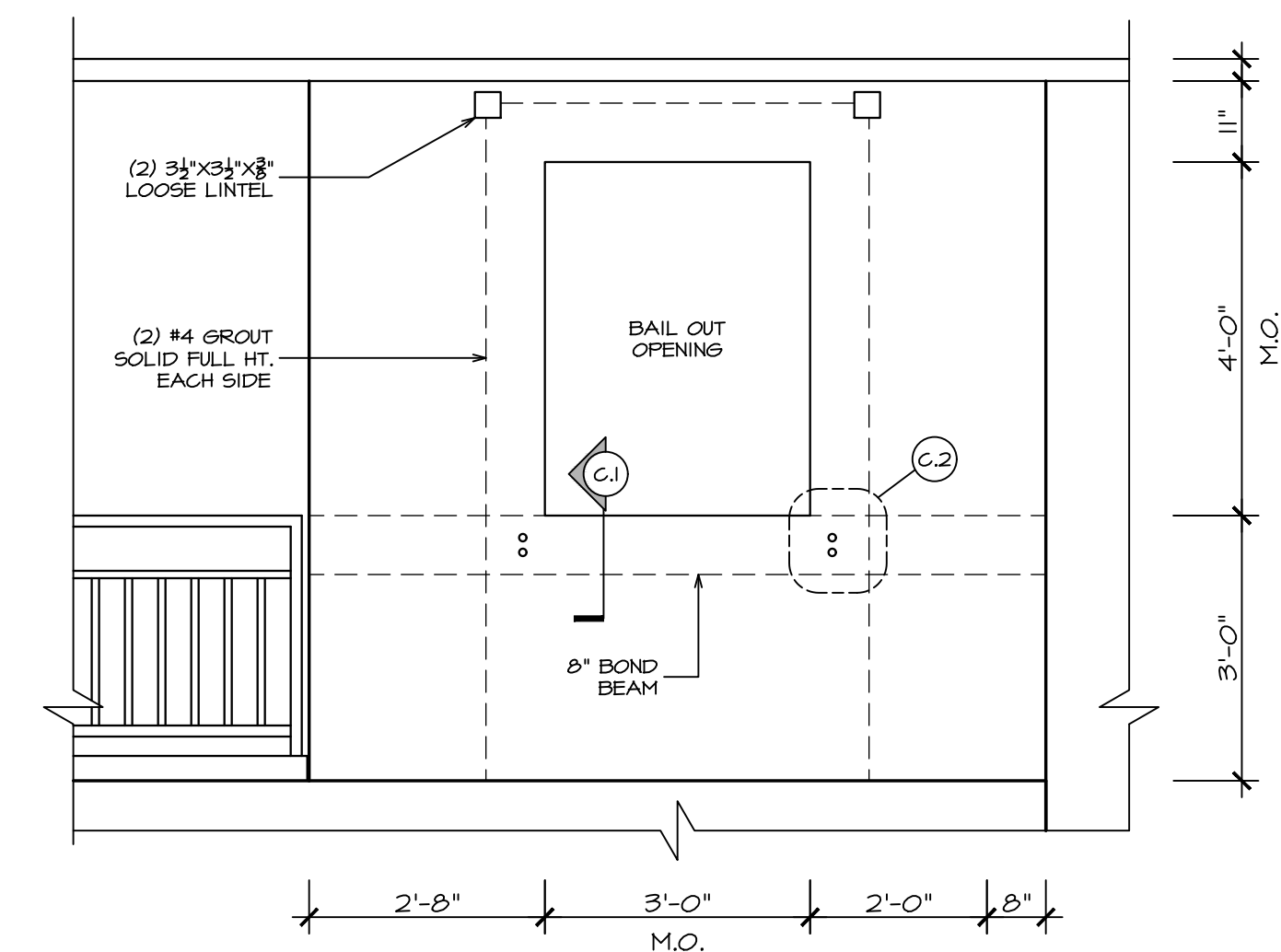
1 FIRST FLOOR STAIR PLAN

SCALE: 1/2" = 1'-0"



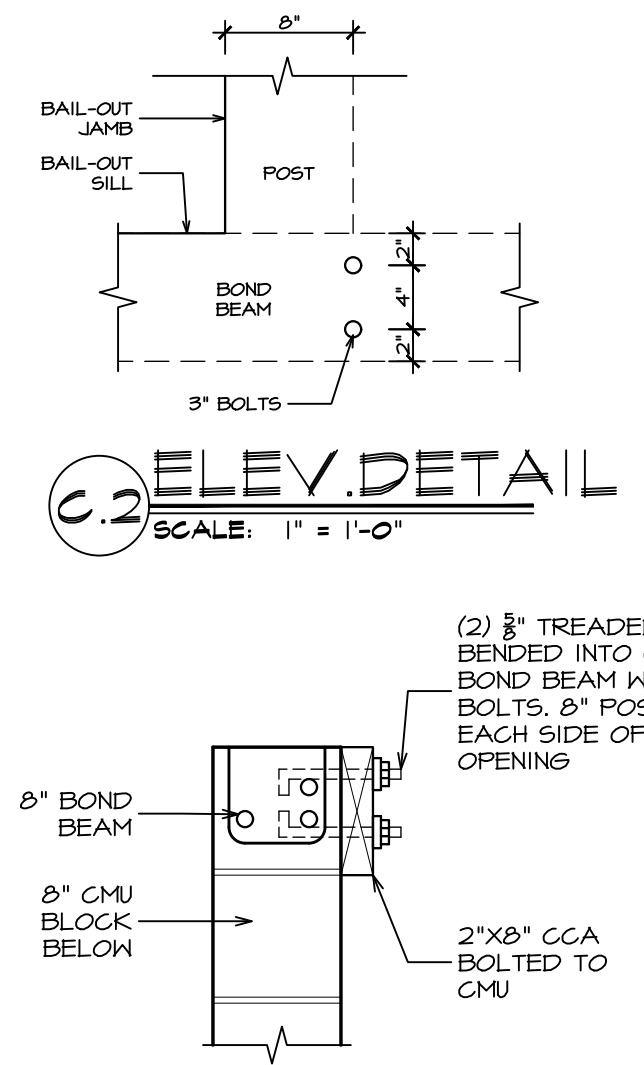
2 MEZZANINE STAIR / BAILOUT PLAN

SCALE: 1/2" = 1'-0"



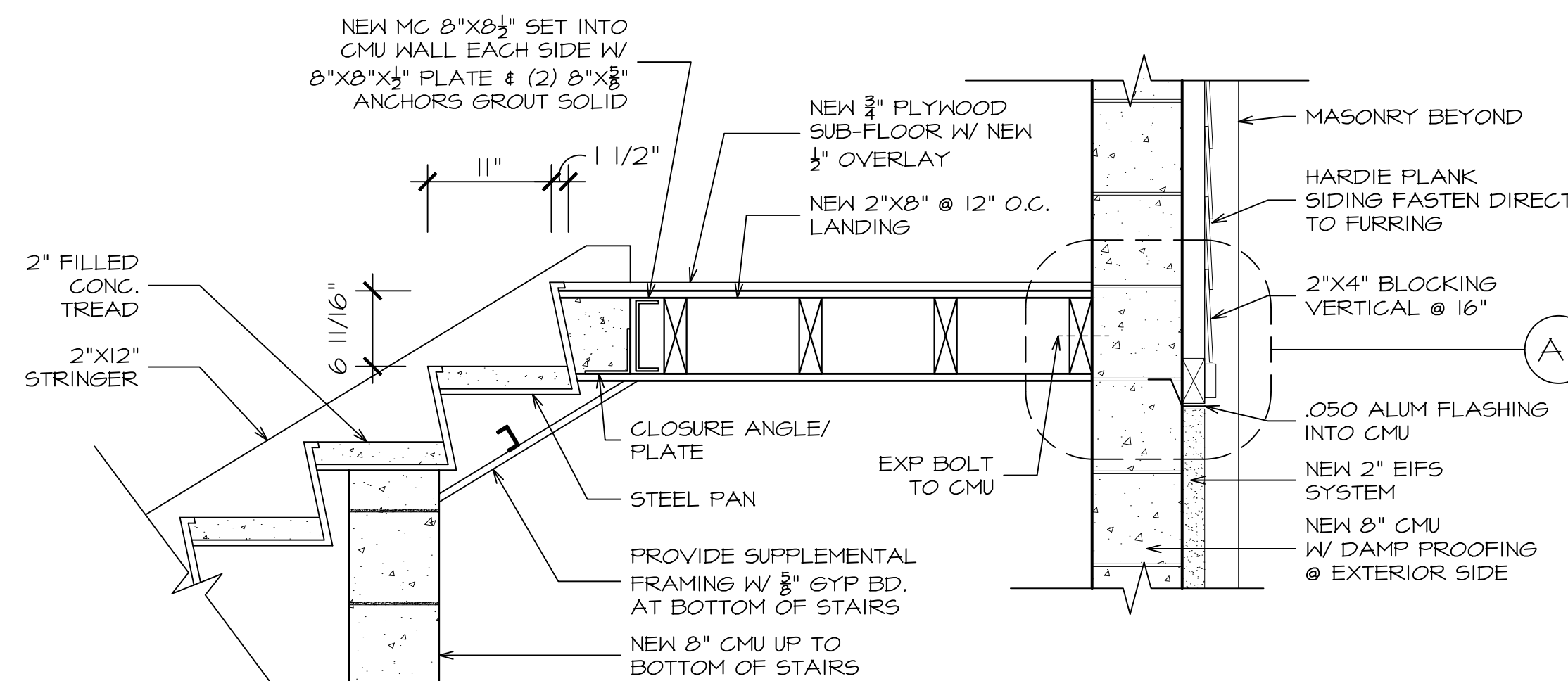
B BAIL-OUT ELEVATION

SCALE: 1/2" = 1'-0"



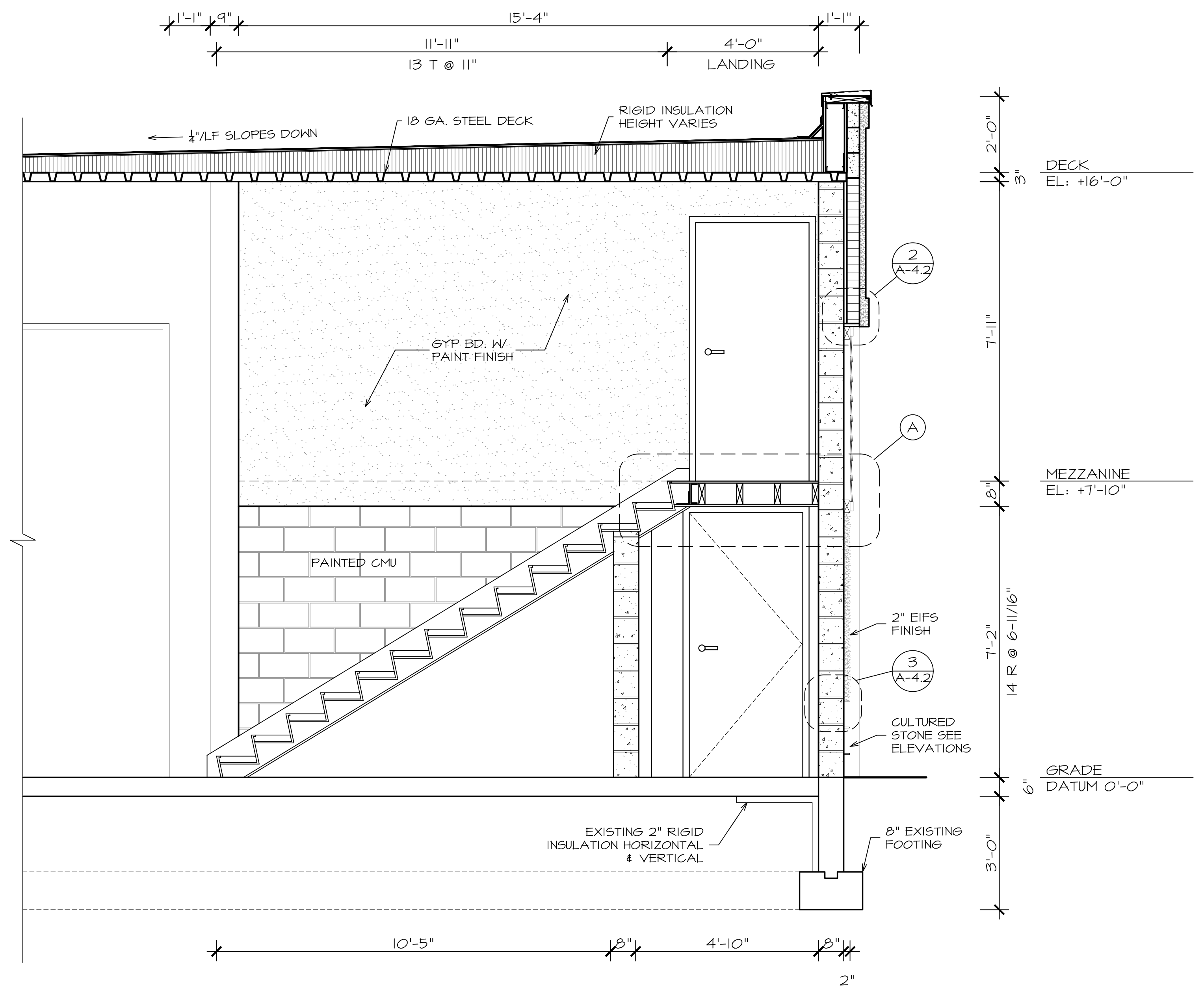
C.2 ELEV. DETAIL

SCALE: 1" = 1'-0"



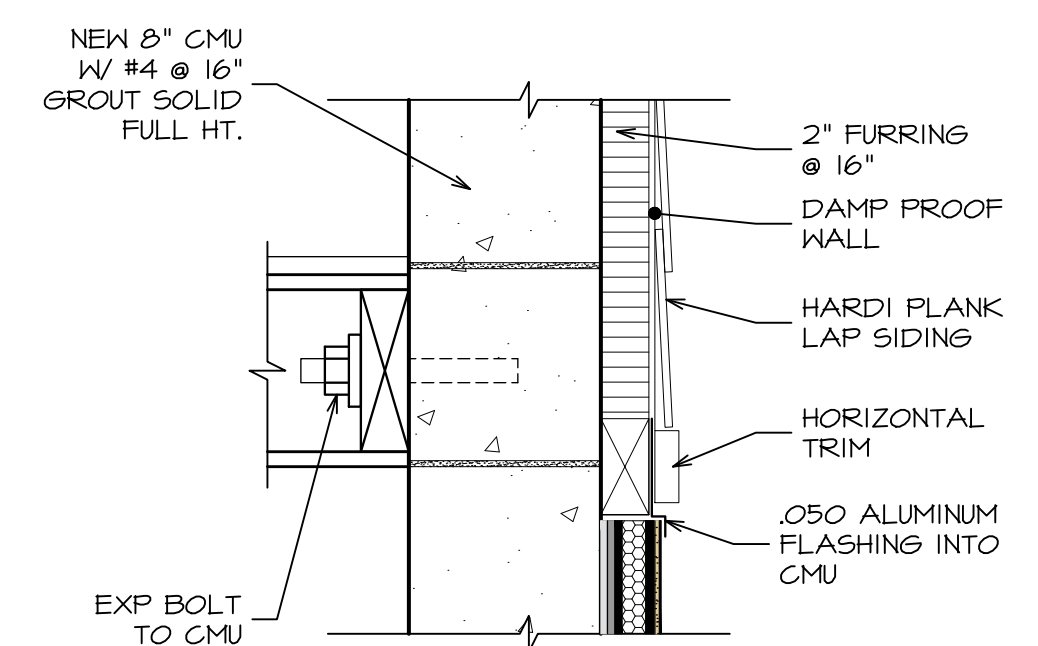
A STAIR DETAIL

SCALE: 1" = 1'-0"



STAIR SECTION

SCALE: 1/2" = 1'-0"

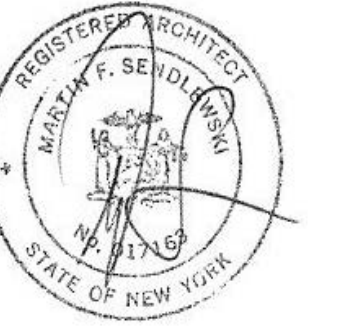


A.1 WALL DETAIL

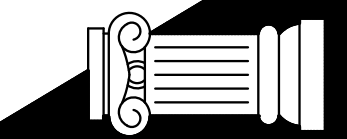
SCALE: 1-1/2" = 1'-0"

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TAPPAN FIRE DISTRICT
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STAIR PLAN
SECTION & DETAILS

PROJECT #: 2108.01B

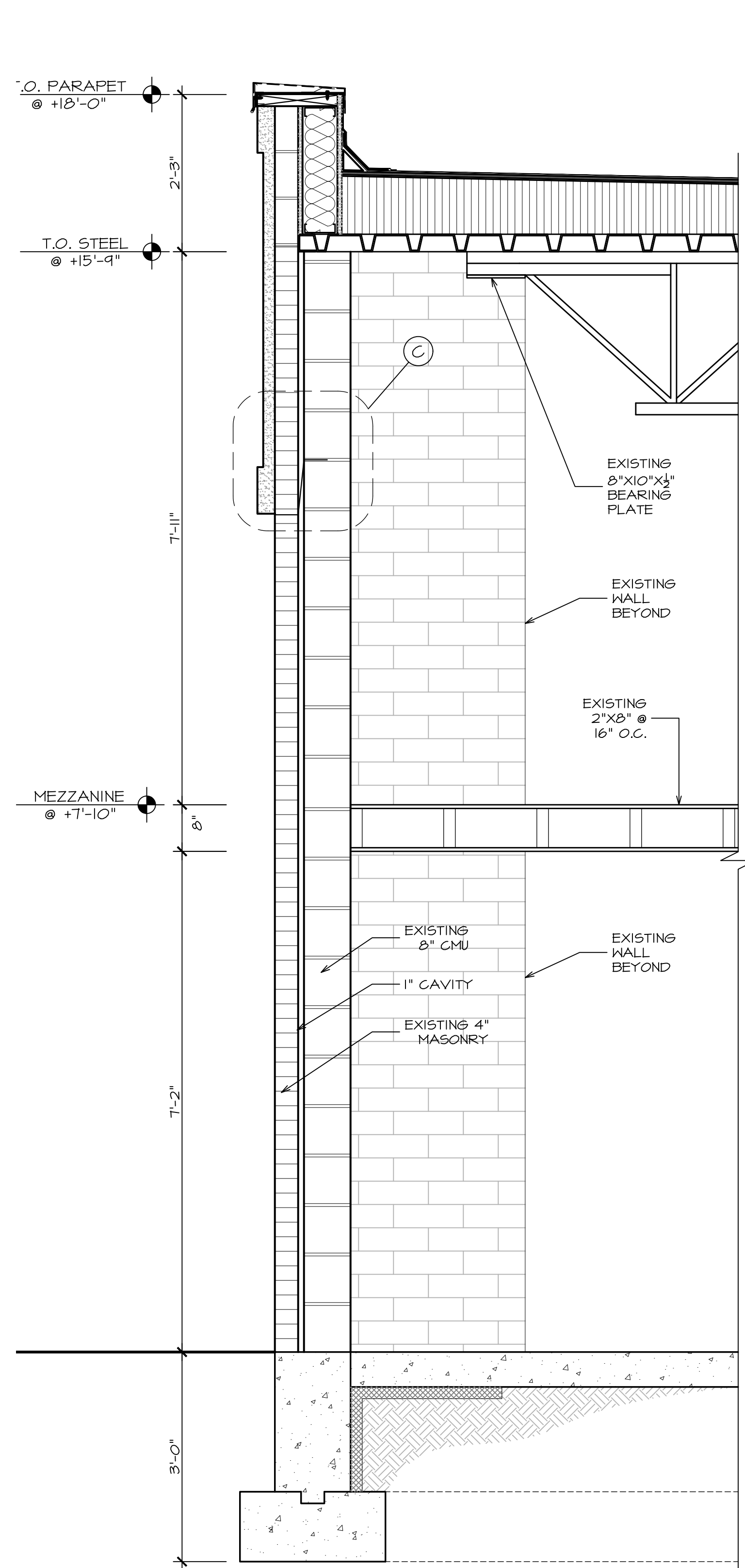
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CAD FILE: 2108.01B/P./BID

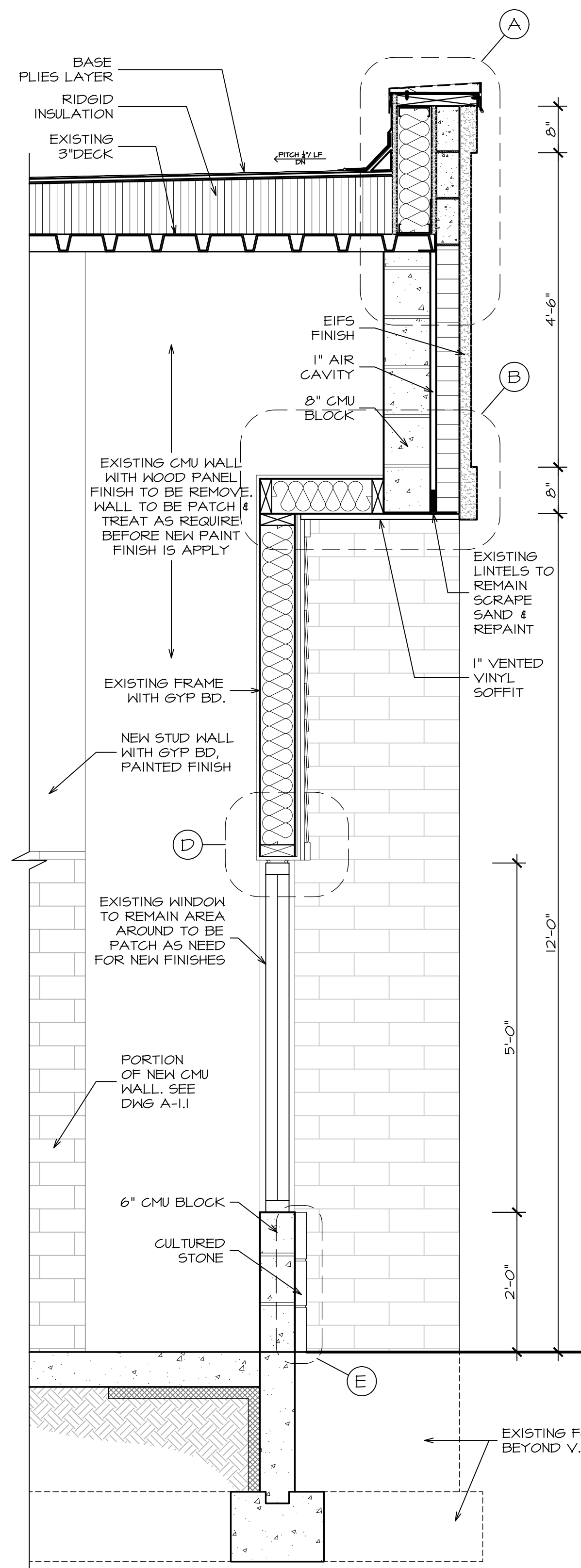
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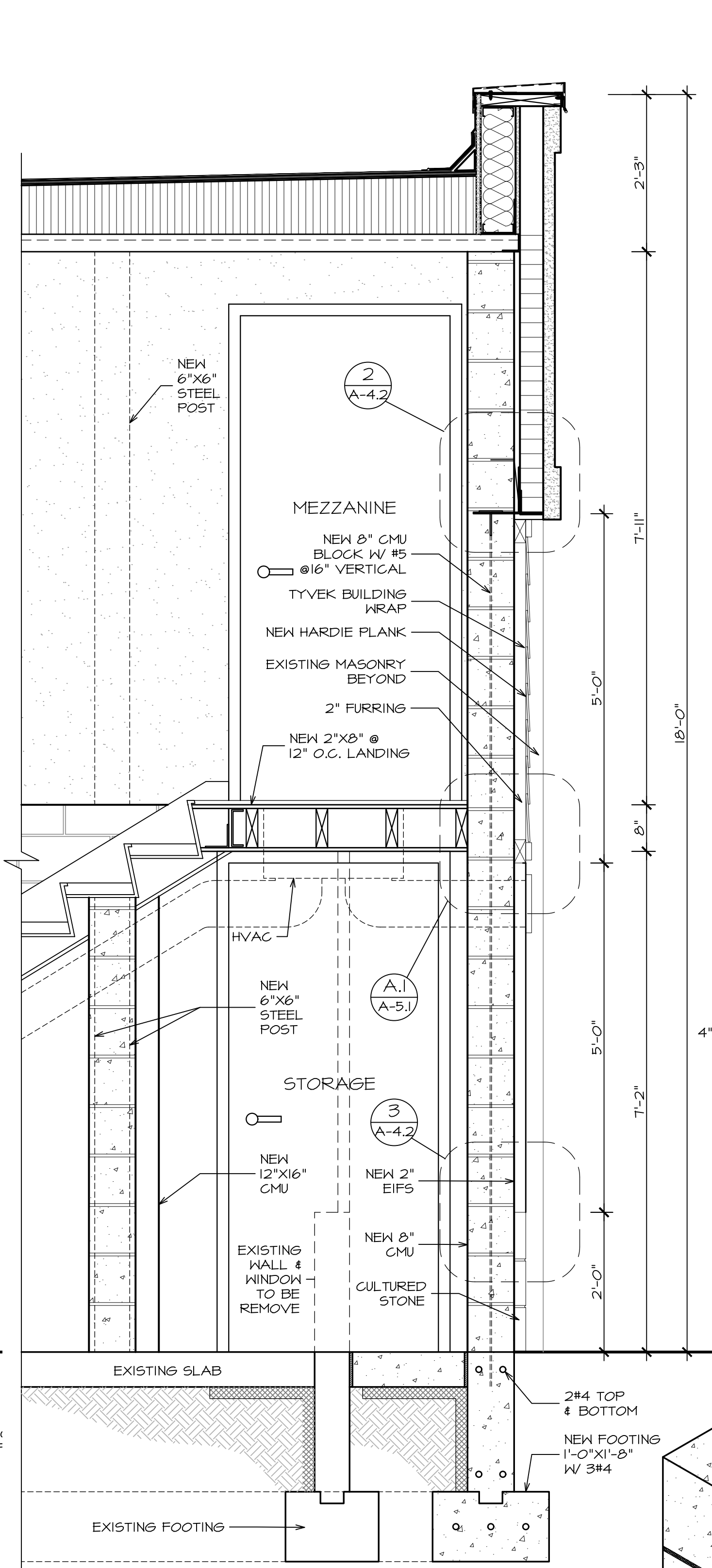
SUB STATION



1 WALL SECTION
SCALE: 3/4" = 1'-0"

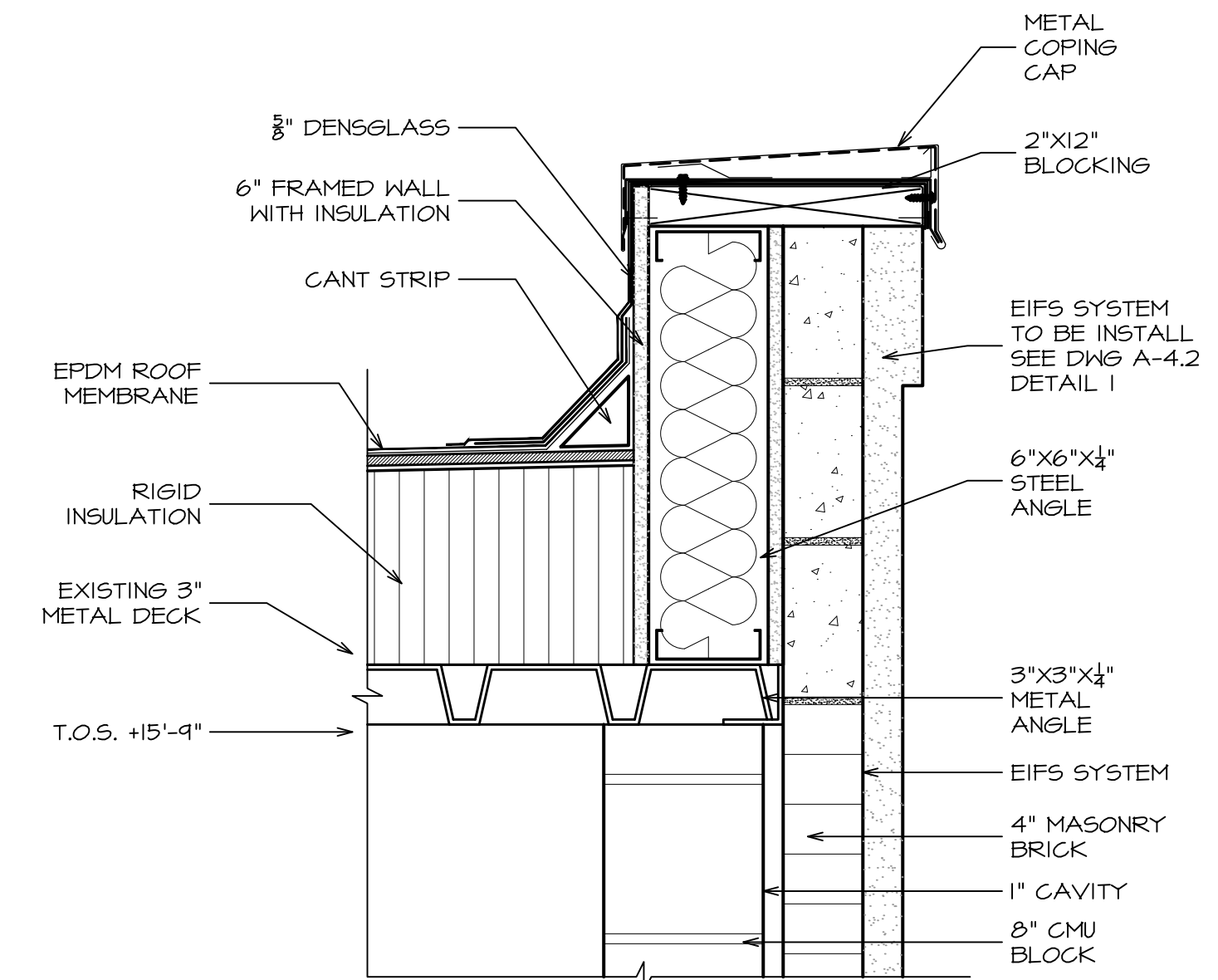


2 WALL SECTION
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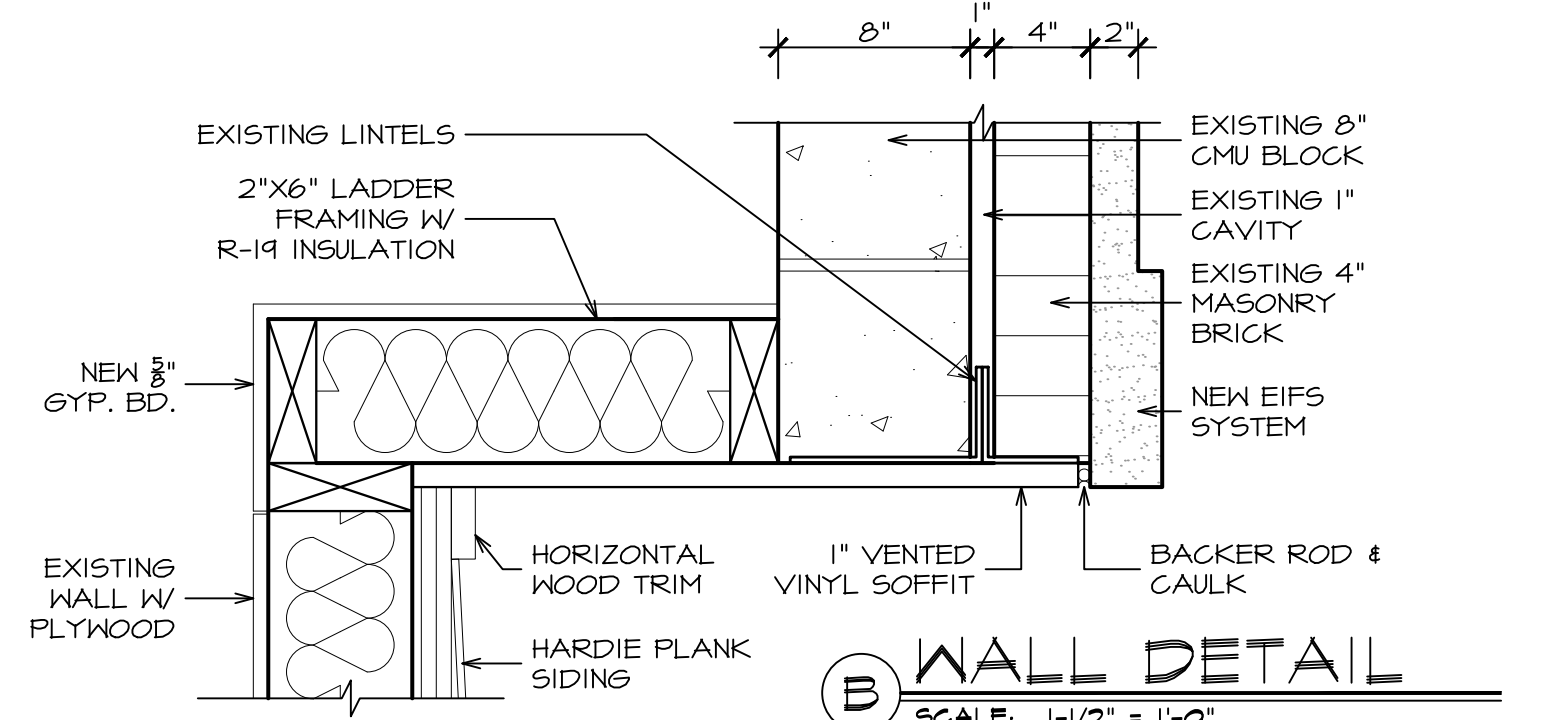


3 WALL SECTION
SCALE: 3/4" = 1'-0"

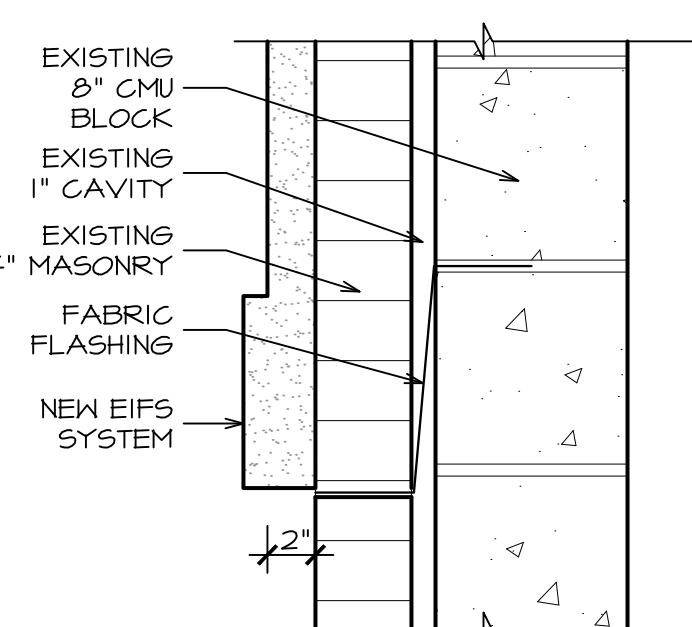
*NOTE: FOR HVAC REFER TO DETAIL A-1 ON DRAWING 4.



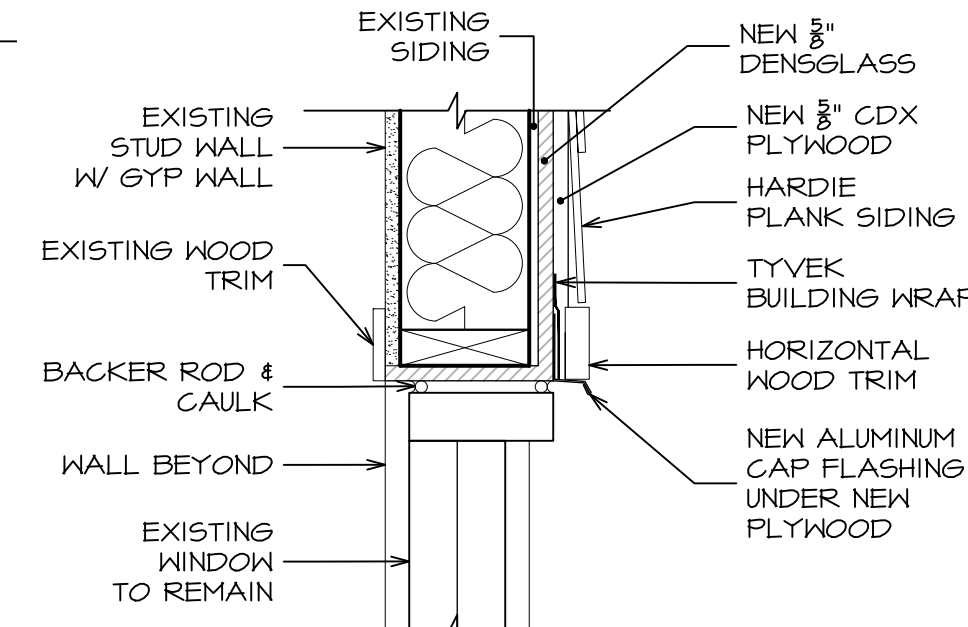
A ROOF DETAIL
SCALE: 1-1/2" = 1'-0"



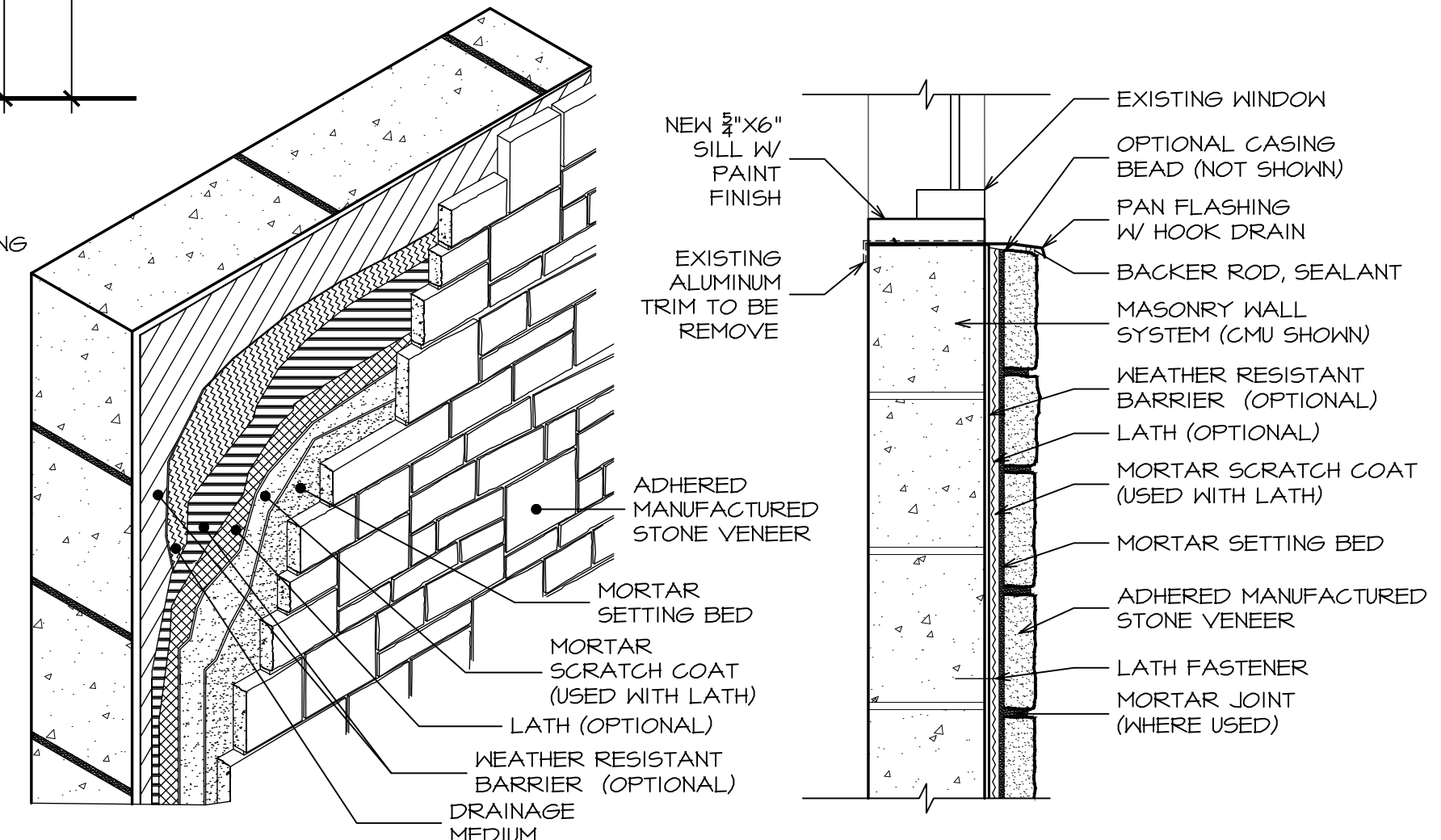
B WALL DETAIL
SCALE: 1-1/2" = 1'-0"



C WALL DETAIL
SCALE: 1-1/2" = 1'-0"



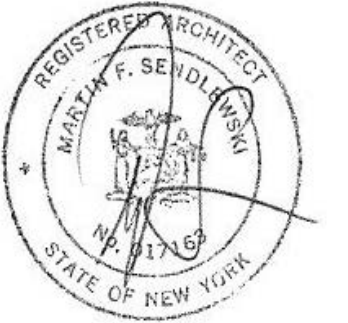
D WALL DETAIL
SCALE: 1-1/2" = 1'-0"



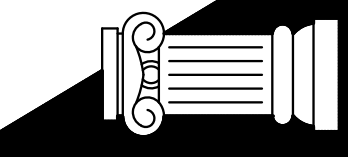
E CULTURE STONE DETAIL
SCALE: 1-1/2" = 1'-0"

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WALL SECTION & DETAILS

PROJECT #: 2108.01B

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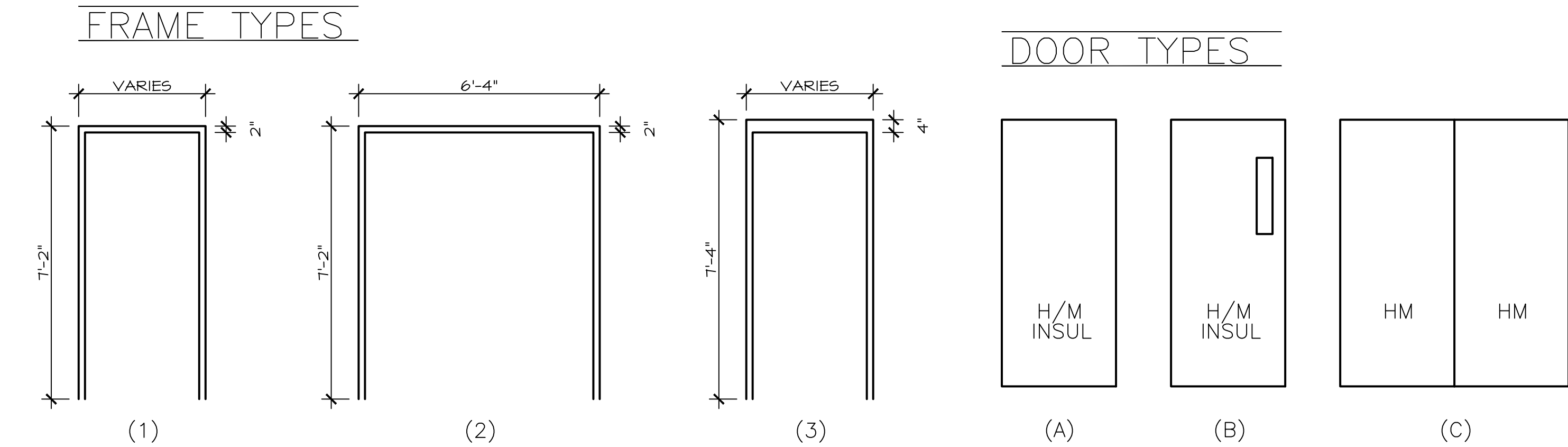
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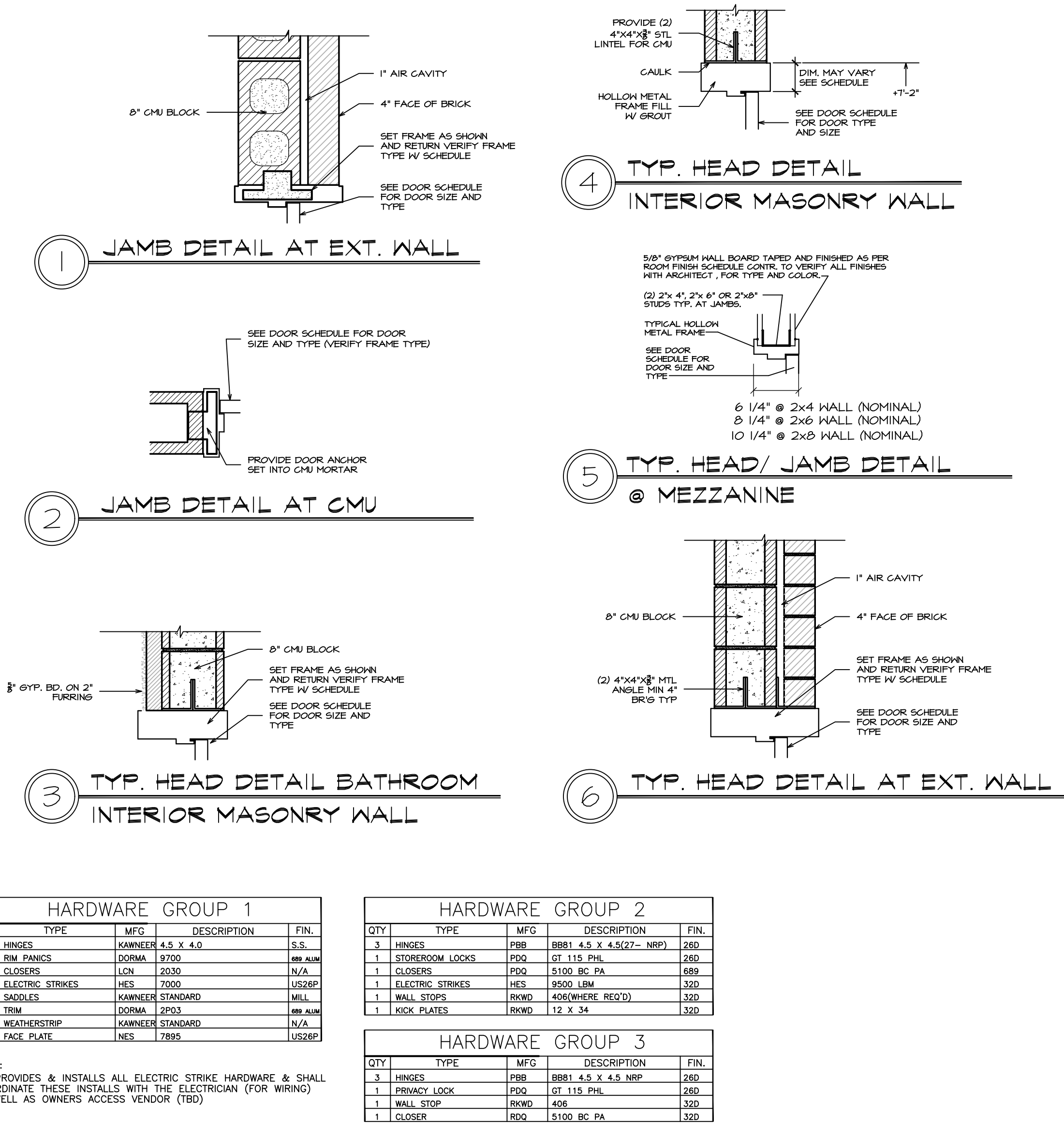
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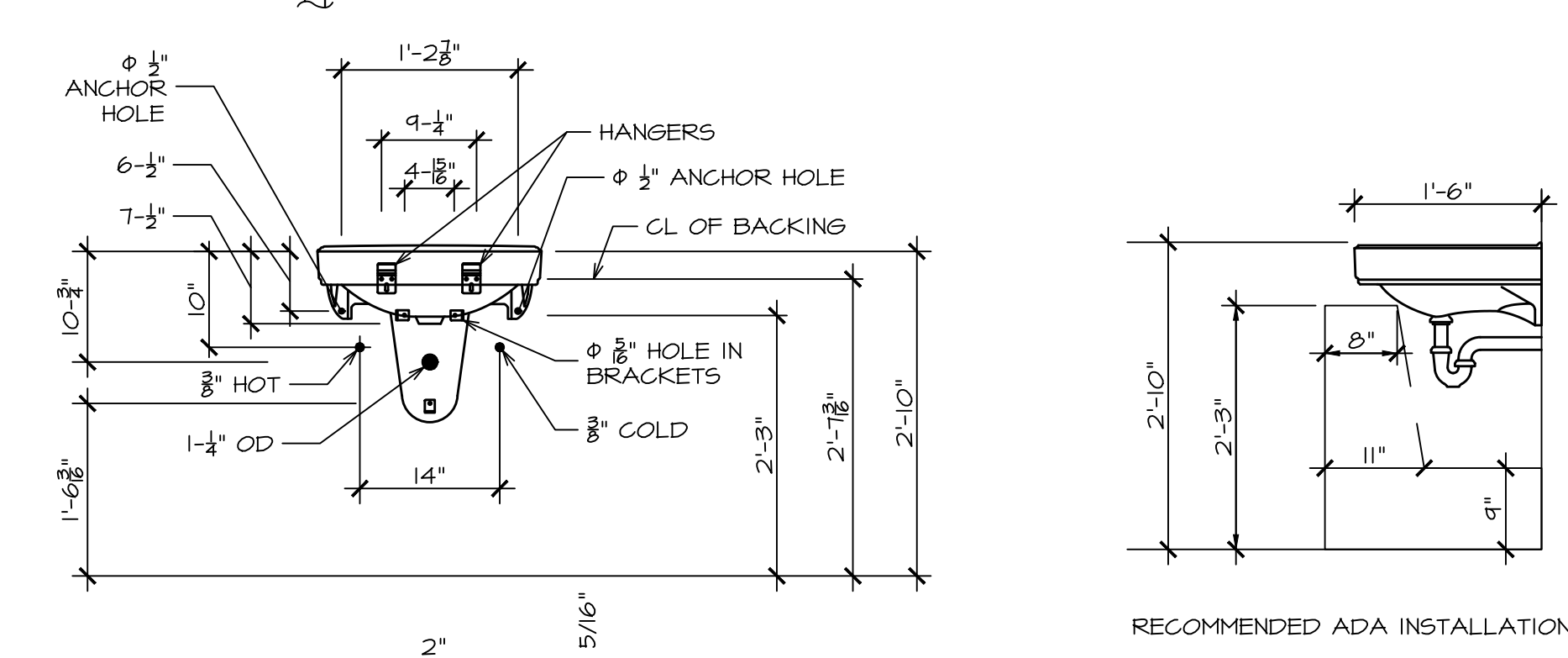
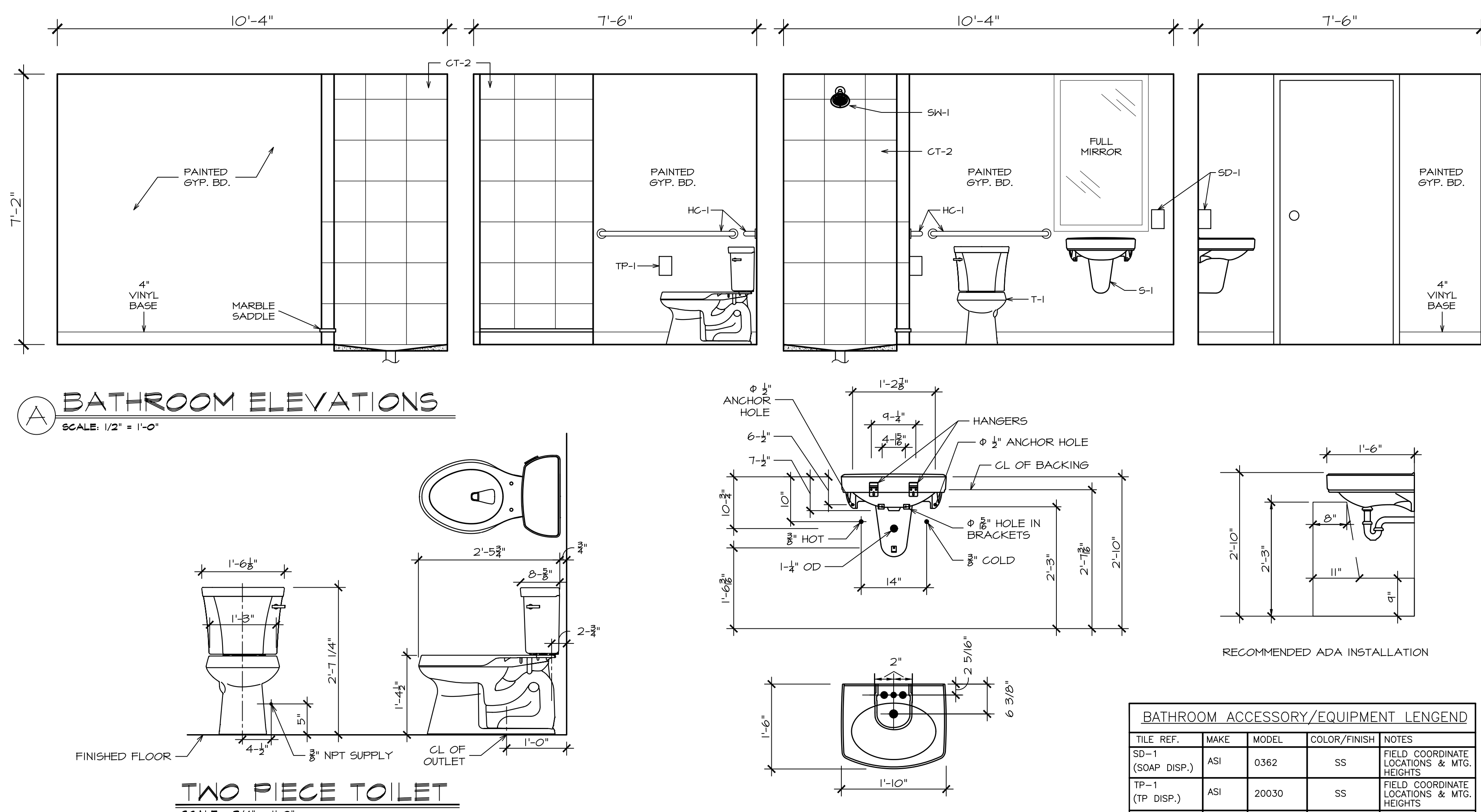
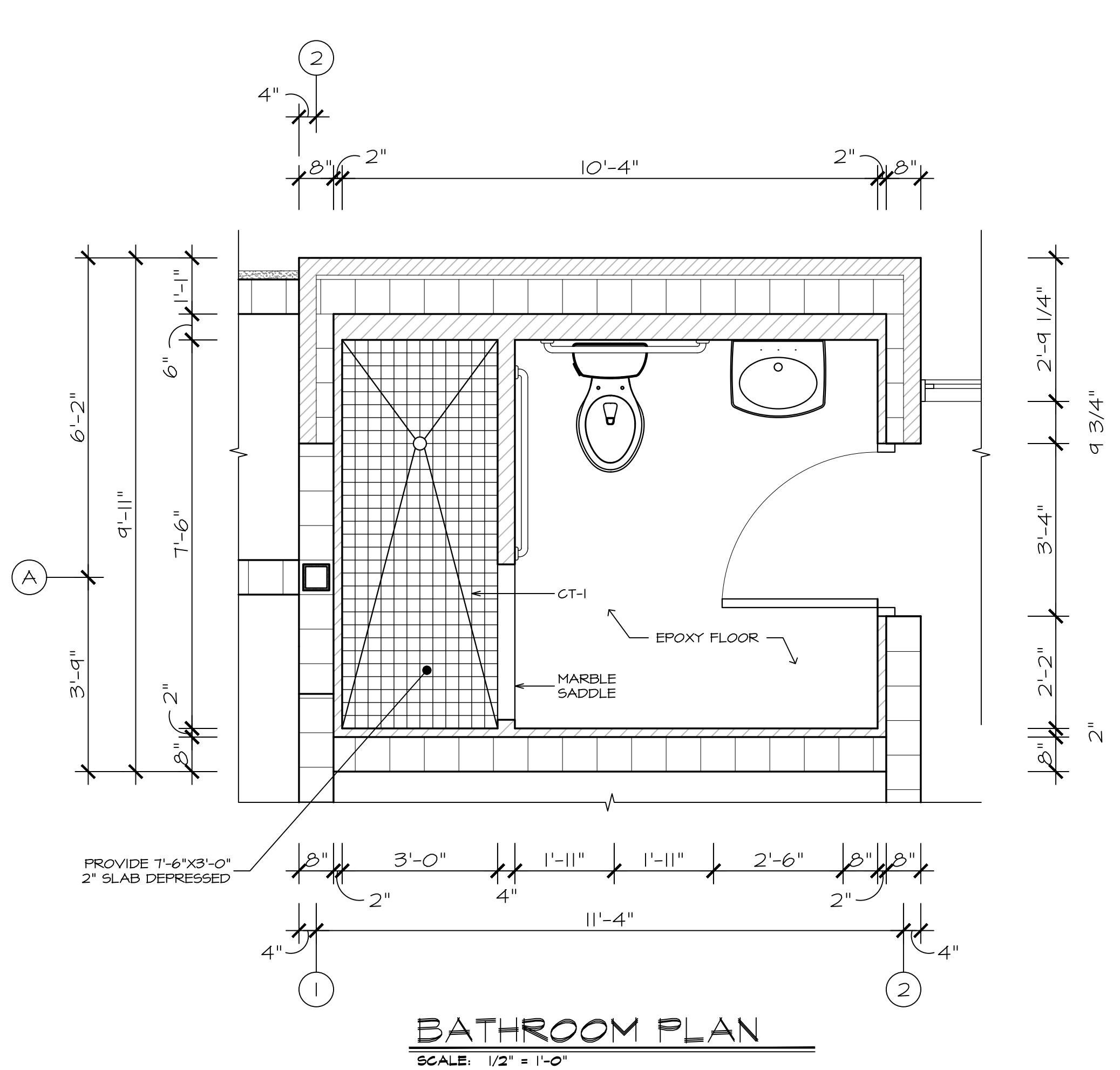
SUB STATION

DOOR SCHEDULE																
DOOR INFORMATION			SIZE			MATERIAL		FINISH		DETAILS		FRAME TYPE	HARDWARE GROUP	RATING	REMARKS	
NO.	QTY.	TYPE	WITH	HEIGHT	THK	DOOR	FRAME	DOOR	FRAME	HEAD	JAMB			LABEL DR. FRAME		
I-01	1	B	3'-4"	7'-0"	1-3/4"	HM	HM	PT	PT	6	1	3	1			
I-02	1	B	3'-4"	7'-0"	1-3/4"	HM	HM	PT	PT	6	1	3	1			
I-03	1	B	3'-4"	7'-0"	1-3/4"	HM	HM	PT	PT	6	1	3	1			
I-04	EXISTING		3'-4"	7'-0"	1-3/4"	EXISTING							ALTER DOOR FOR HES HARDWARE TO BE INSTALL			
I-05	2	C	2'-4"	7'-0"	1-3/4"	HM	HM	PT	PT	5	2	2	3			
I-06	2	C	2'-4"	7'-0"	1-3/4"	HM	HM	PT	PT	5	2	2	3			
I-07	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	4	2	1	3			
I-08	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	3	2	1	3			
I-09	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	3	2	1	2			
I-10	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	4	2	1	2			
I-11	1	A	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	3	2	1	3			
M-01	1	B	3'-0"	7'-0"	1-3/4"	HM	HM	PT	PT	5	2	1	3			



FINISH SCHEDULE												
ROOM	NAME	FLOOR		BASE		WALLS		CEILING			MISC.	NOTES
		MATERIAL	FINISH	MATERIAL	HEIGHT	MATERIAL	FINISH	TYPE	FINISH	HEIGHT		
101	APPARATUS	CONC.	EPOXY	VB	4"	CMU	PT	STL	PT	12'-0"		
102	READY ROOM	CONC.	EPOXY	VB	4"	CMU	PT	ACT	PT	12'-0"		
103.1	GEAR AREA	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	12'-0"		
103.2	ELEC. SERVICE	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	9'-0"		
103.3	CLOSET	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	9'-0"		
104	GEAR WASH AREA	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	7'-2"		
105	AIR COMPRESSOR/ JANITOR	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	7'-2"		
106	BATHROOM	CONC.	EPOXY	VB	4"	GB	PT	GB	PT	7'-2"		
107	STORAGE	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	7'-2"		
108.1	ENGINEERS ROOM	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	7'-2"		
108.2	STORAGE	CONC.	EPOXY	VB	4"	CMU	PT	GB	PT	7'-2"		
M-101	LOCKER GEAR & UNIFORM	CONC.	EPOXY	VB	4"	CMU	PT	STL/DECK	PT	7'-10"		
M-102	TRAINING / STORAGE	CONC.	EPOXY	VB	4"	CMU	PT	STL/DECK	PT	7'-10"		

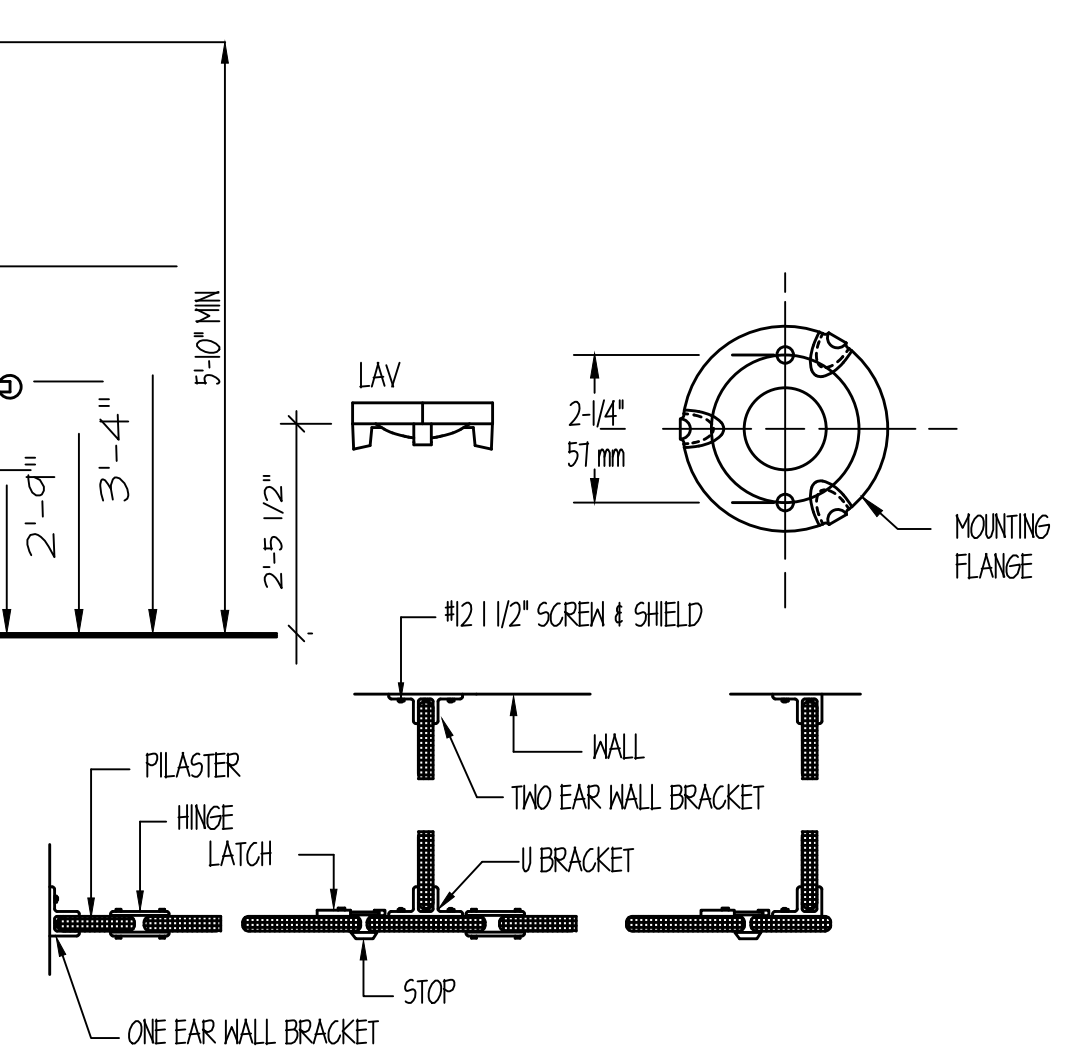
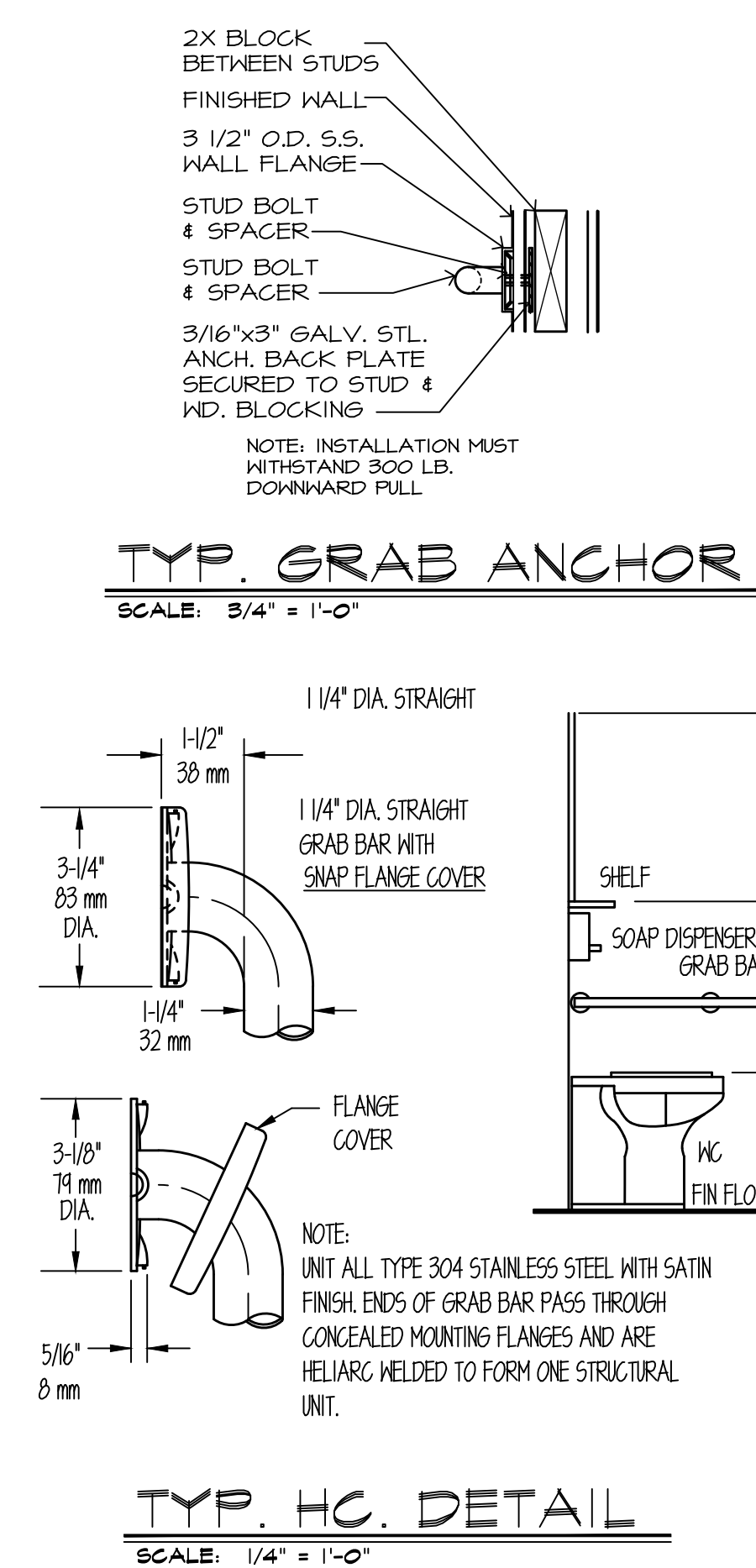




BATHROOM ACCESSORY/EQUIPMENT LENDENG				
TILE REF.	MAKE	MODEL	COLOR/FINISH	NOTES
SD-1 (SOAP DISP.)	ASI	0362	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
TP-1 (TP DISP.)	ASI	20030	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
TH-1 (TOWEL HOOK)	ASI	7301-S	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
CR-1 (CURTAIN ROD)	ASI	1204	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
GB-1 (GRAB BAR)	ASI	3700	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
SW-1 (SHOWERHEAD)	KOHLER	K-22167	SS	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
T-1 (TOILET)	KOHLER	K-3999	WHITE	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS
S-1 (SINK)	KOHLER	K-2035-4	WHITE	FIELD COORDINATE LOCATIONS & MTG. HEIGHTS

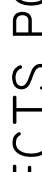
NOTE: ALL HARDWARE SHALL MEET ADA REQ'TS FOR MOUNTING HEIGHT.

BATHROOM TILE LENGEND				
TILE REF.	SERIES	COLOR	SIZE	NOTE
CT-1	AYERS ROCK	MAJESTIC MOUND	3"x3"	--
CT-2	AYERS ROCK	BRONZED BEACON	13"x13"	--



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BATHROOM PLAN & ELEVATIONS
& PARTIAL FIRST FLOOR PLAN

PROJECT #: 2108.01B

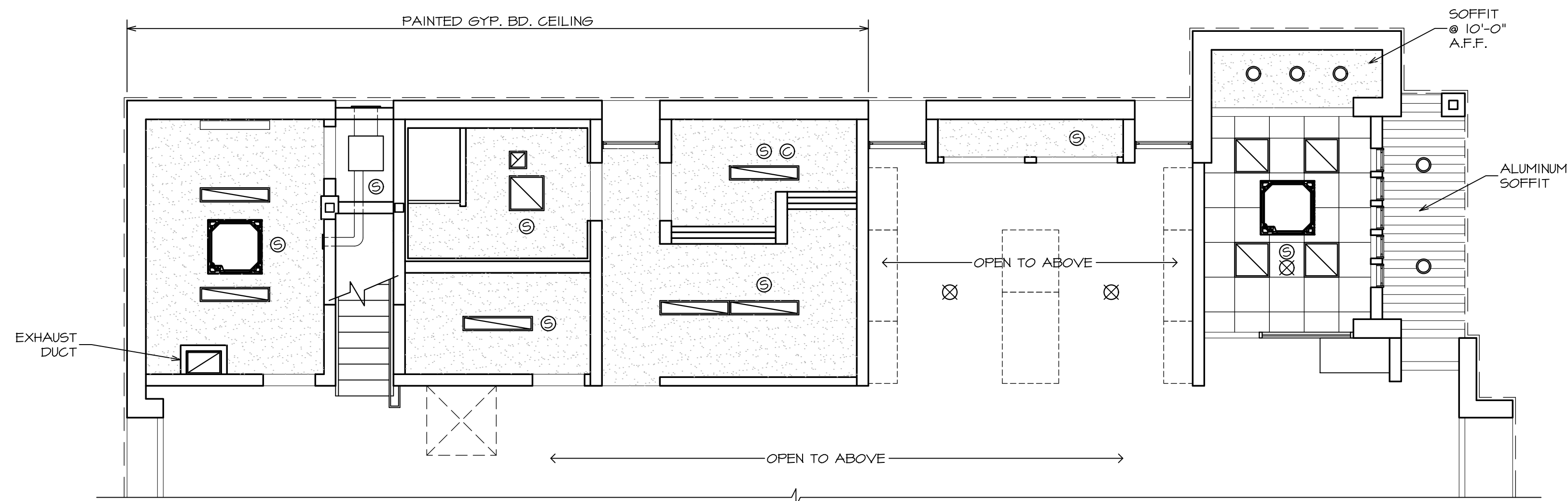
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CAD FILE: 2108.01B/P:/BID

DRAWING#:

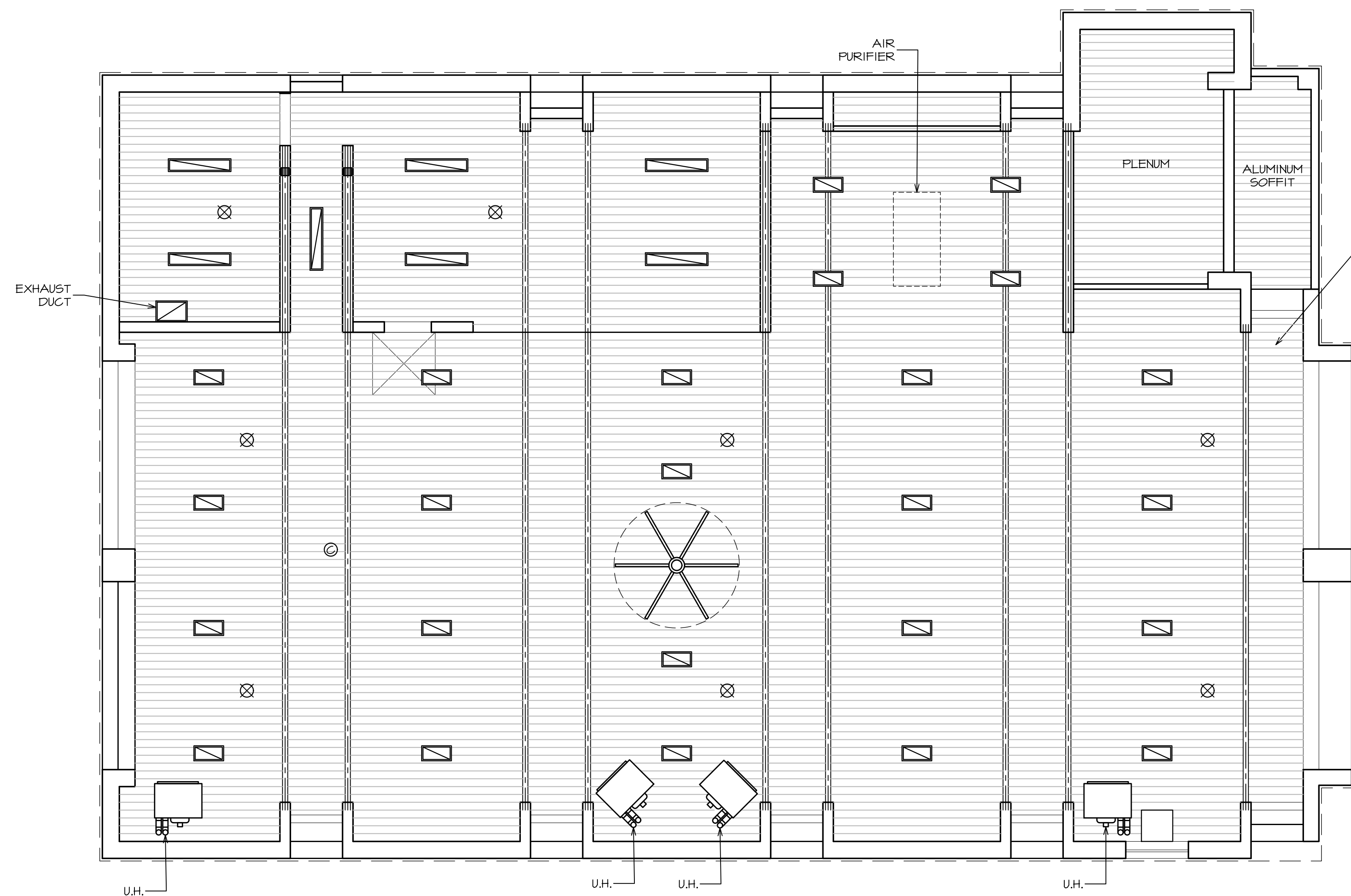
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SUB STATION



FIRST FLOOR CEILING PLAN

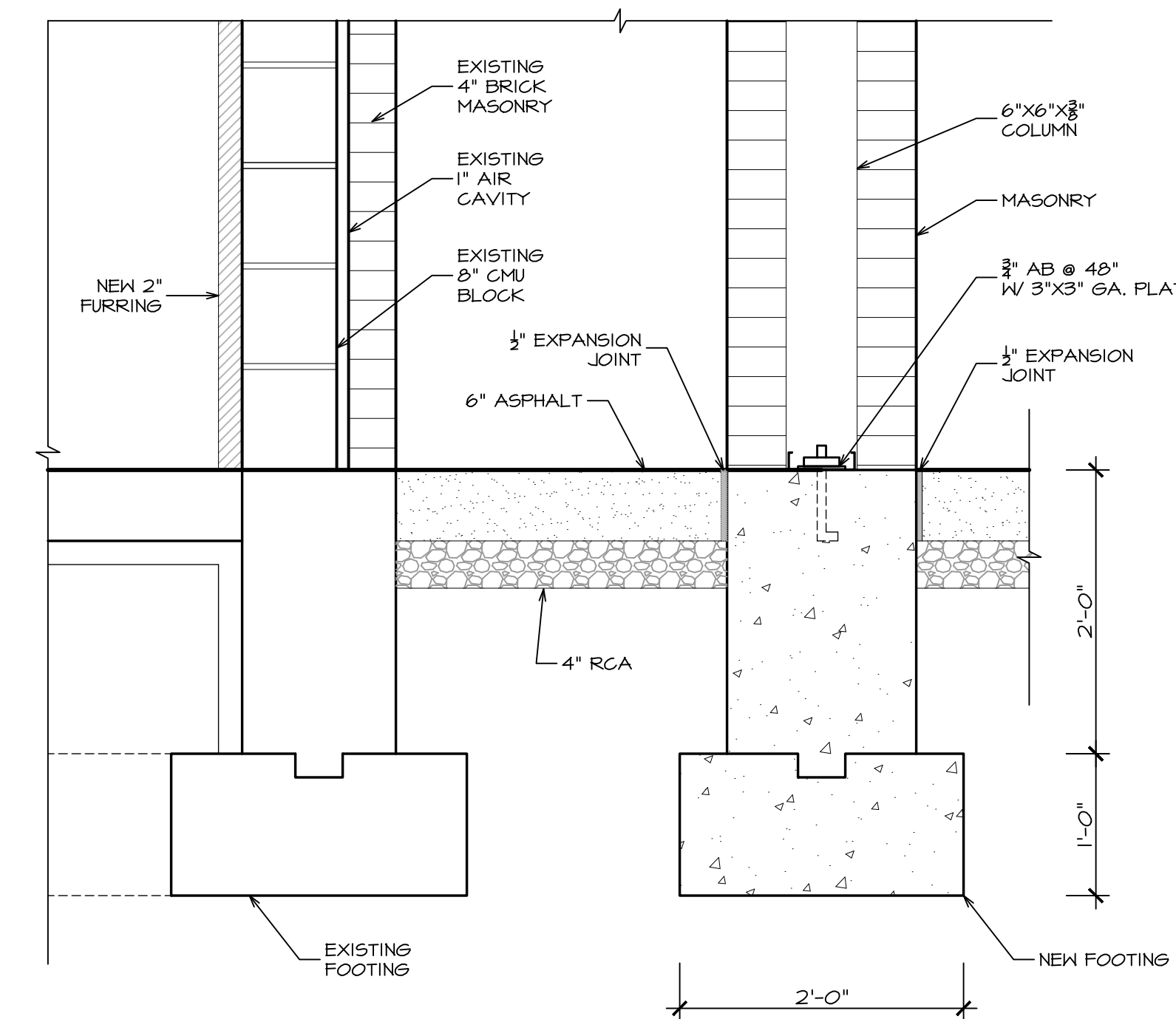
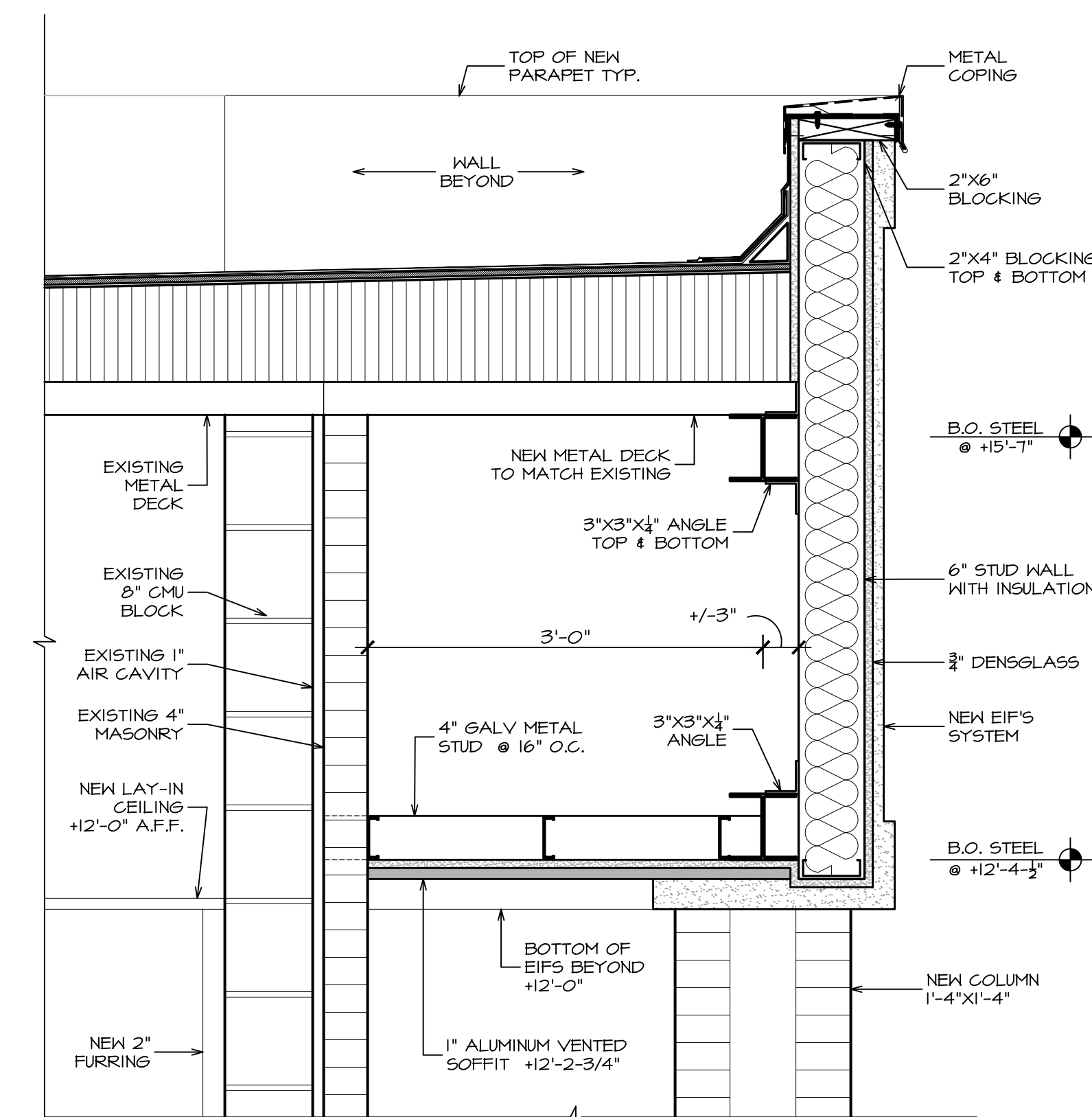
SCALE: 3/16" = 1'-0"



MEZZANINE CEILING PLAN

SCALE: 3/16" = 1'-0"

CEILING LEGENDS	
	10' X 4'-0" LOW BAY LED
	1'-0" X 1'-11" HIGH BAY LED
	2'-0" X 2'-0" LED FIXTURE
	LED RECESSED HI-HAT
	HVAC RETURN AIR GRILLE
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	RADIO SYSTEM SPEAKER
	CEILING FAN
	CEILING FAN COIL UNIT
	MODINE UNIT HEATER
	GYP. BD. CEILING W/ PAINT FINISH (TYP.)



POST/FLAT ROOF
SCALE: 1" = 1'-0"

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FIRST FLOOR & MEZZANINE
REFLECTIVE CEILING PLAN

PROJECT #: 2108.01B

DRAWN BY: AR/JC

CAD FILE: 2108.01B/P-/BID

DRAWING#:

A=8.1

SUB STATION

DRAWING LIST:
M-1 HEAT GAIN/LOSS CALCULATIONS
M-2 MECHANICAL FIRST FLOOR PLAN
M-3 MECHANICAL MEZZANINE PLAN
M-4 MECHANICAL ROOF PLAN
M-5 MECHANICAL EQUIPMENT SCHEDULES
M-6 MECHANICAL DETAILS
M-7 MECHANICAL NOTES

SCOPE OF WORK:
THE FOLLOWING ITEMS DESCRIBED ARE IN COMPLIANCE WITH THE 2020 NYSECCC, 2020 IBC AND THE 2020 IMC.
IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO OBTAIN ALL FILINGS, APPROVALS, PERMITS AND SIGNOFFS FOR THIS PROJECT.

THE MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OF THE FOLLOWING AND ALL SYSTEMS WITHIN THE DRAWINGS AND SPECIFICATIONS:

- (1) SPLIT SYSTEMS COMPOSED OF (1) HEATPUMP AND (1) FAN COIL.
- (1) SPLIT SYSTEMS COMPOSED OF (1) HEATPUMP AND (2) FAN COILS
- ALL EXHAUST SYSTEMS
- AIR PURIFICATION SYSTEM.
- ALL EQUIPMENT ALONG WITH ALL SPECIFIED OPTIONS AND ACCESSORIES, REFRIGERANT PIPING, PIPING INSULATION, CONDENSATE PIPING, DUCTWORK, DUCT INSULATION, DUCT SUPPORTS, HANGERS, DIFFUSERS, GRILLES, DAMPERS, PENETRATIONS, ACCESS DOORS, CONTROL WIRING AND CONTROLS FOR ALL SYSTEMS.
- ALL EXISTING APPROVED MECHANICAL SYSTEMS AND EQUIPMENT ARE TO REMAIN UNLESS NOTED OTHERWISE. REFER TO DEMOLITION PLAN FOR MECHANICAL CONTRACTORS ADDITIONAL SCOPE OF WORK.

ENERGY COMPLIANCE PATH: 2020 NYSECCC PRESCRIPTIVE PATH
ADDITIONAL EFFICIENCY PACKAGE: REDUCED LIGHTING POWER (C406.3) – SEE ELECTRICAL PLANS FOR COMPLIANCE

Rhvac - Residential & Light Commercial HVAC Loads Elite Software Development, Inc.
Frigidyne AC Co Inc. Tappan - Western Highway
Baltimore, NY 11710-5641 Page 16

System 1 Room Load Summary

Room No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
1	App Bay	3,735	190,687	2,477	0-0	0	13,406	0	610	1.00	610	2,477
System 1 total		3,735	190,687	2,477			13,406	0	610		610	2,477

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.12	100% / 0%	13,406	0	13,406
Recommended:	1.49	75% / 25%	13,406	4,469	17,875

System 2 Room Load Summary

Room No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
2	Engineer's Room	176	12,360	161	0-0	0	5,740	487	261	1.00	261	261
Ventilation			1,473				352	467				
System 2 total		176	13,833	161			6,092	954	261		261	261

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.59	86% / 14%	6,092	954	7,046
Recommended:	0.68	75% / 25%	6,092	2,031	8,123

System 3 Room Load Summary

Room No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
3	Bath 1	108	8,773	114	0-0	0	2,681	158	122	1.00	122	122
System 3 total		108	8,773	114			2,681	158	122		122	122

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.24	94% / 6%	2,681	158	2,839
Recommended:	0.30	75% / 25%	2,681	894	3,574

System 4 Room Load Summary

Room No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
4	Utility	104	7,952	103	0-0	0	423	0	19	1.00	19	103
System 4 total		104	7,952	103			423	0	19		19	103

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	0.04	100% / 0%	423	0	423
Recommended:	0.05	75% / 25%	423	141	564

System 5 Room Load Summary

Room No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
---Zone 1---												
5	Elec/Radio Rm	187	12,835	167	0-0	0	15,164	5,158	690	1.00	690	690
Ventilation			1,031				246	327				
System 5 total		187	13,866	167			15,410	5,485	690		690	690

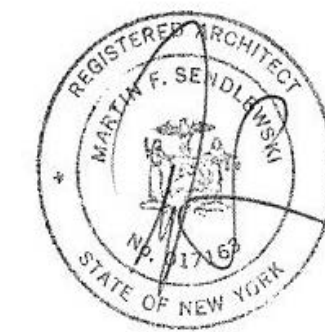
Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.74	74% / 26%	15,410	5,485	20,895
Recommended:	1.83	75% / 25%	16,456	5,485	21,941

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300 WESTERN HWY S,
TAPPAN NY, 10983

SCOPE OF WORK
HEAT GAIN/LOSS CALCULATIONS

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P-/BID

DRAWING#:

M-1

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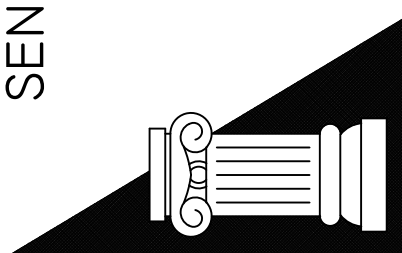


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FIRST FLOOR
MECHANICAL PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

M-2

SYMBOL LEGEND

SUPPLY AIR DUCT ———
RETURN AIR DUCT - - - - -
EXHAUST AIR DUCT - - - - -

MOTORIZED DAMPER MD ⌞
THERMOSTAT Ⓢ

PLAN NOTES:

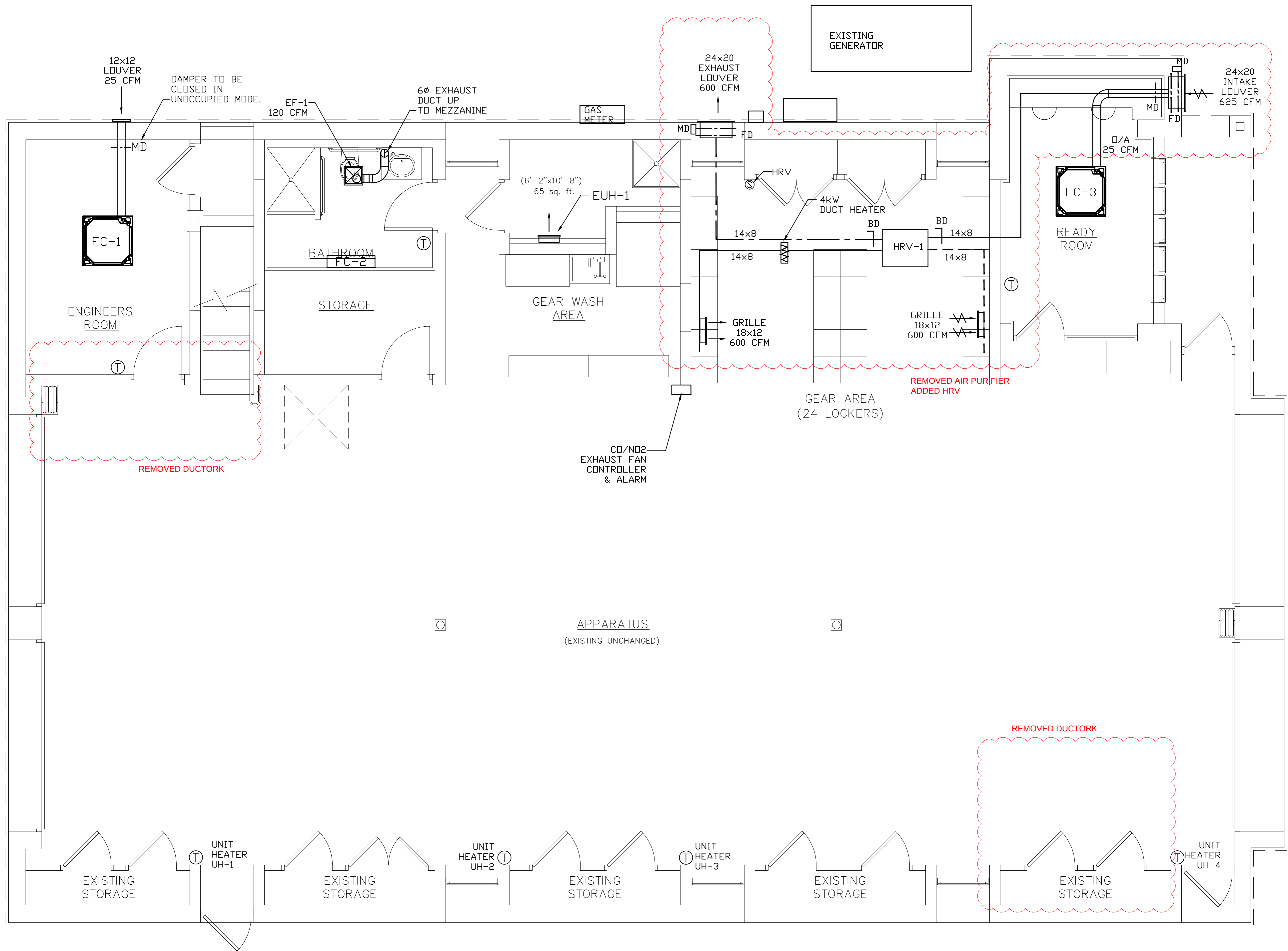
1. ALL SUPPLY, RETURN AND EXHAUST AIR DUCTS AND PLENUMS LOCATED IN UNCONDITIONED SPACES SHALL BE FULLY INSULATED AND EXTERNALLY WRAPPED WITH A MINIMUM OF R-6 FOIL BACK INSULATION. INCLUDE MASTIC SEALING OF ALL JOINTS AND SEAMS.
2. PROVIDE ALUMINUM DIFFUSERS/GRILLES FOR ALL DUCTWORK TERMINATIONS.
3. ALL AIRSIDE SYSTEMS SHALL BE BALANCED AND A CERTIFIED REPORT PROVIDED.
4. PROVIDE MOTORIZED DAMPERS AT FRESH AIR INTAKES. TYPICAL OF ALL.
5. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES. TAPES AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M" FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-C." CLOSURE SYSTEMS USED TO SEAL ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
6. DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE. FLEXIBLE AND OTHER FACTORY-MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. THE PRESSURE CLASSIFICATION OF DUCTS SHALL EQUAL OR EXCEED THE DESIGN PRESSURE OF THE AIR DISTRIBUTION IN WHICH THE DUCTS ARE UTILIZED.
8. VERIFY LOCATIONS OF ALL THERMOSTATS AND SENSORS WITH ARCHITECT PRIOR TO INSTALLATION.
9. PROVIDE LOW VOLTAGE CONTROLS, CONTROL WIRING AND MOTORIZED DAMPERS FOR EACH SYSTEM. ALL CONTROL WIRING SHALL BE IN METAL CONDUIT.
10. ROUND DUCTS SHALL BE GALVANIZED METAL.
11. EXTERNAL DUCT INSULATION, EXCEPT SPRAY POLYURETHANE FOAM, AND FACTORY-INSULATED FLEXIBLE DUCT SHALL BE LEGIBLY PRINTED OR IDENTIFIED AT INTERVALS NOT GREATER THAN 36 INCHES WITH THE NAME OF THE MANUFACTURER, THE THERMAL RESISTANCE R-VALUE AT THE SPECIFIED INSTALLED THICKNESS AND THE FLAME SPREAD AND SMOKE-DEVELOPED INDEXES OF THE COMPOSITE MATERIALS. DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY, EXCLUDING AIR FILMS, VAPOR RETARDERS OR OTHER DUCT COMPONENTS, AND SHALL BE BASED ON TESTED C-VALUES AT 75°F MEAN TEMPERATURE AT THE INSTALLED THICKNESS, IN ACCORDANCE WITH RECOGNIZED INDUSTRY PROCEDURES.
12. ALL DUCT DIMENSIONS NOTED ARE CLEAR INSIDE DIMENSIONS.
13. ALL CASSETTE STYLE/CONCEALED DUCTED FAN COIL UNITS SHALL BE FULLY INSULATED ABOVE THE CEILING.
14. PROVIDE INSULATED REFRIGERANT LINESETS FROM HEAT PUMP TO ALL FAN COIL UNITS. CONNECT AS PER MANUFACTURER'S INSTALLATION MANUAL.
15. PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.
16. ALL ROOFTOP DUCTWORK, REFRIGERANT PIPING SHALL BE SUPPORTED OFF THE ROOF. PROVIDE PATE ROOF CURBS OR APPROVED EQUAL.
17. ALL ROOFTOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 24" ABOVE ROOF.
18. PROVIDE ROOF CURBS AND EQUIPMENT RAILS.

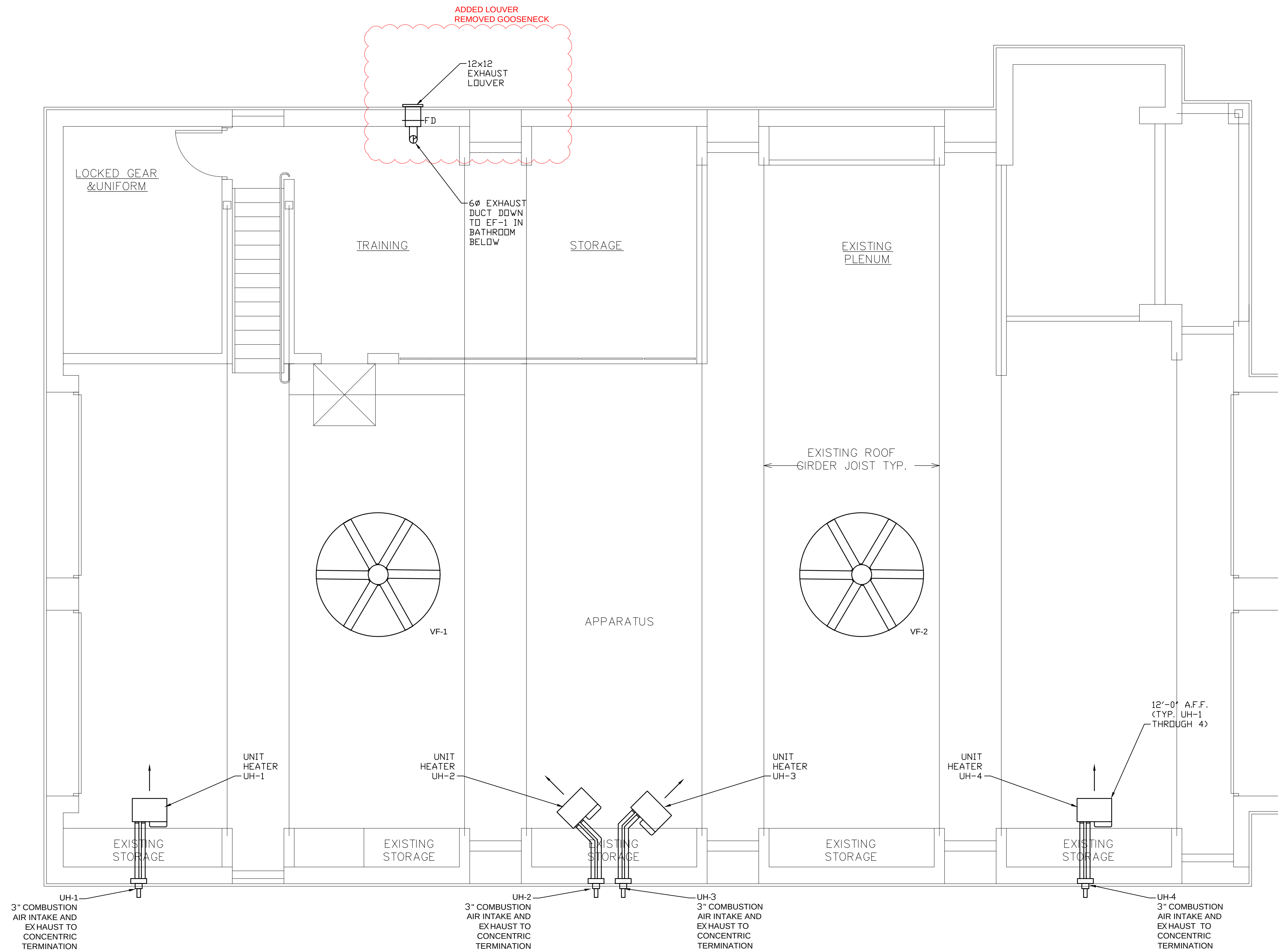
CO/NO2 DETECTOR TO BE INTERLOCKED WITH GARAGE DOORS.
DOORS TO OPEN UPON SIGNAL FROM DETECTOR.

ADDED NOTE

FIRST FLOOR MECHANICAL PLAN

SCALE: 1/4" = 1'-0"





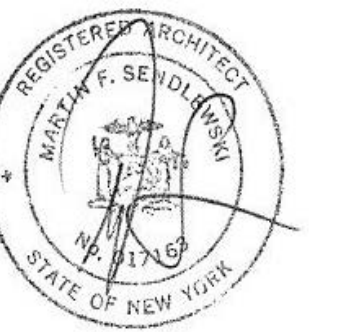
MEZZANINE MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

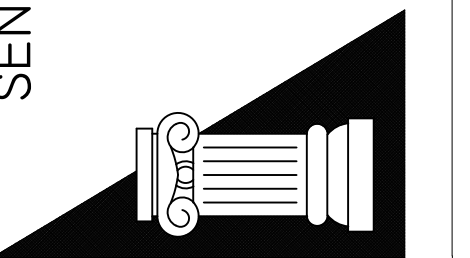
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TAPPAN FIRE DISTRICT
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SECOND FLOOR
MECHANICAL PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P: /BID

DRAWING#:

M-3

1. PROVIDE HANGING VIBRATION ISOLATION FOR ALL UNIT HEATERS

ADDED NOTES

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TAPPAN FIRE DISTRICT
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TAPPAN NY, 10983

ROOF
MECHANICAL PLAN

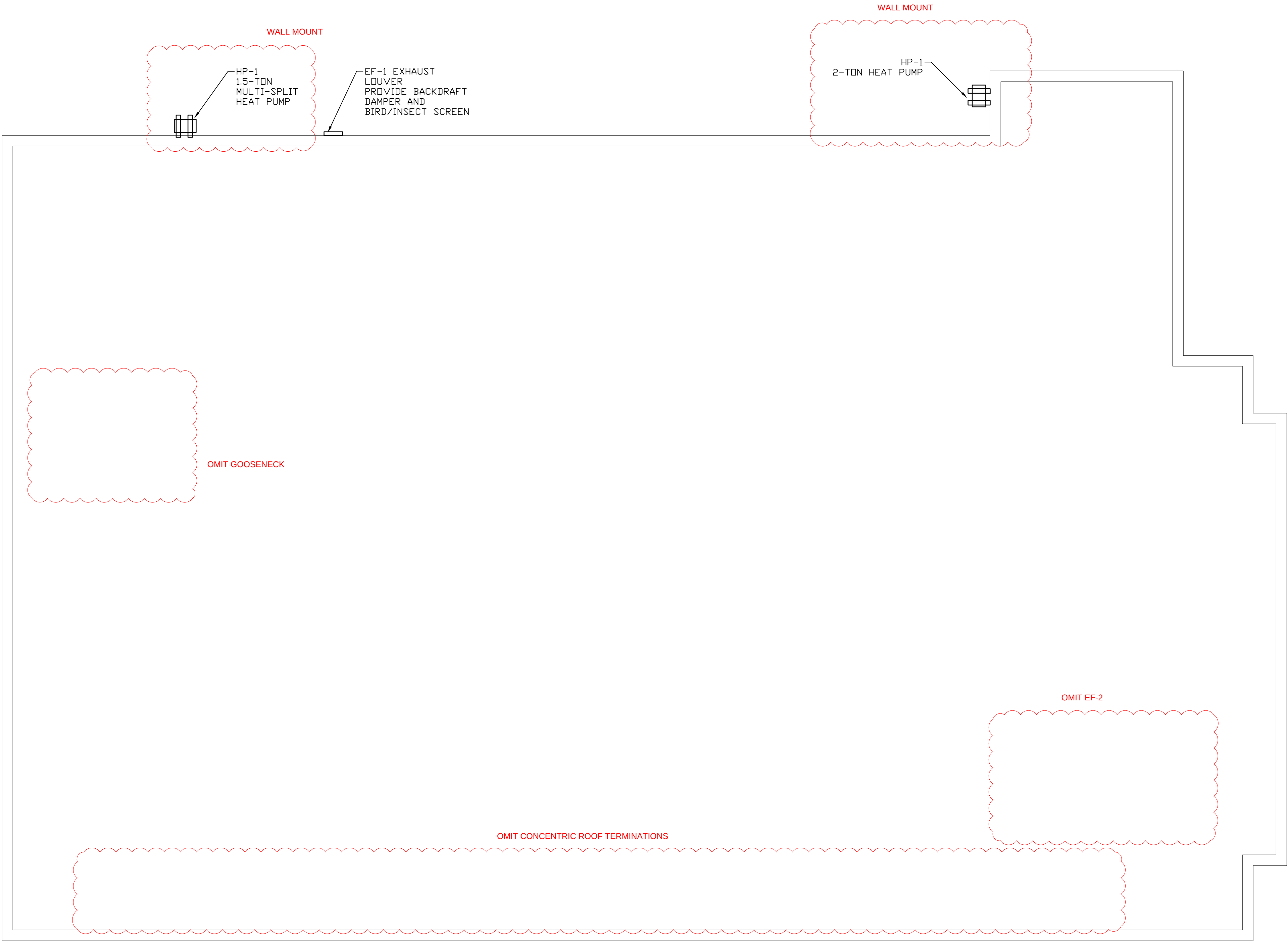
PROJECT #: 21-08

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M-4



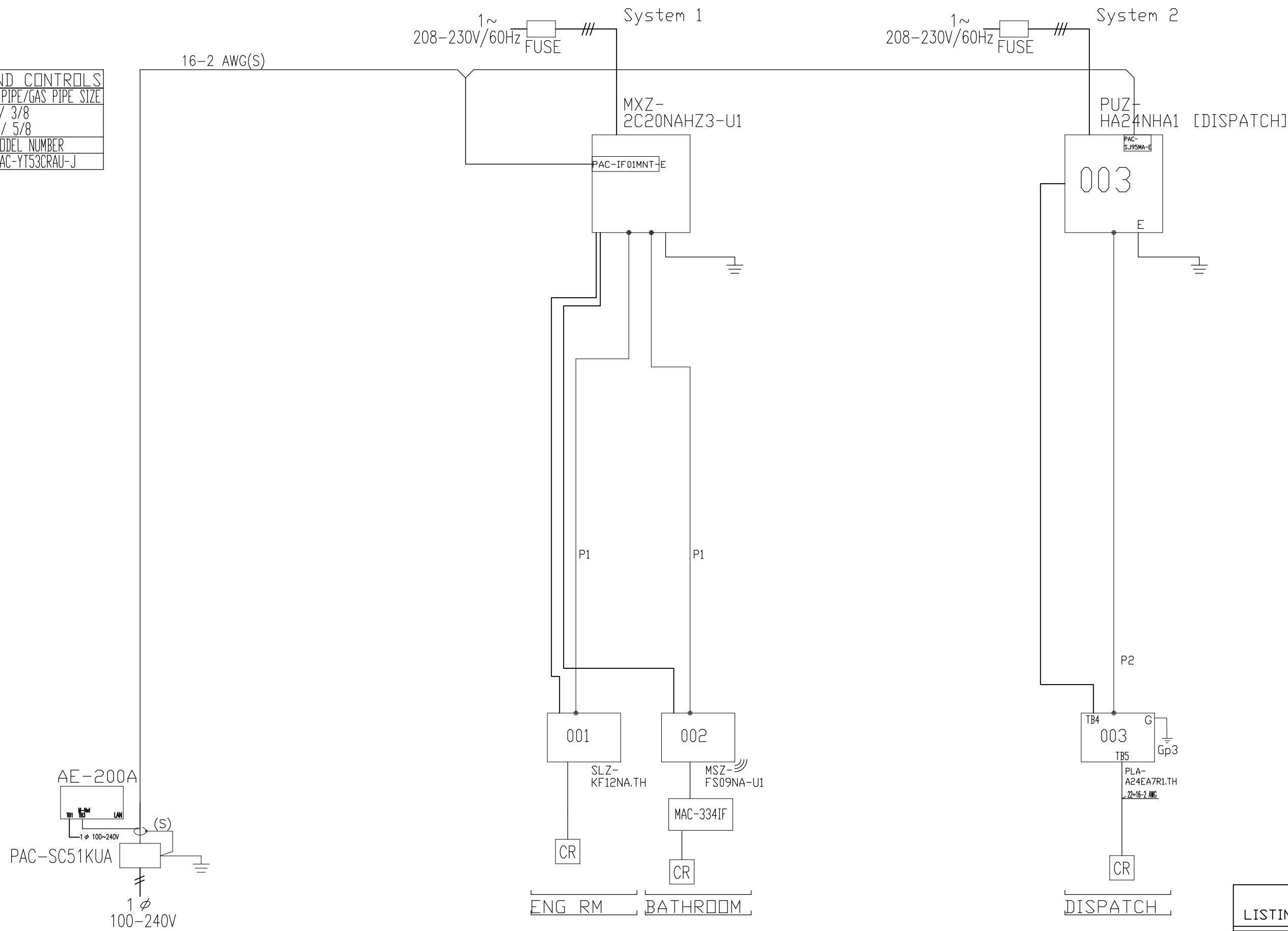
- PLAN NOTES:
1. PROVIDE INSULATED REFRIGERANT LINESETS FROM HEAT PUMP TO COIL UNITS. CONNECT AS PER MANUFACTURER'S INSTALLATION MANUAL.
 2. PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL BE PERMITTED.
 3. ALL ROOFTOP DUCTWORK, REFRIGERANT PIPING SHALL BE SUPPORTED BY THE ROOF. PROVIDE PATE ROOF CURBS OR APPROVED EQUIVALENT.
 4. ALL ROOFTOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 24" FROM THE ROOF EDGE.
 5. PROVIDE ROOF CURBS AND EQUIPMENT RAILS FOR ALL SPLIT SYSTEMS.

MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0"

DIAGRAM SYMBOL LEGEND		CONT.No	PAGE
DISPLAY	DESCRIPTION		
---	POWER WIRE		
---	CONTROL WIRE		
---	REF. PIPE		

PIPING AND CONTROLS	
SYMBOL	LIQUID PIPE / GAS PIPE SIZE
P1	1/4" / 3/8"
P2	3/8" / 5/8"
SYMBOL	MODEL NUMBER
CR	PAC-YT530RAU-J



CITY MULTI
SYSTEM SCHEMATIC DWG.

Coded Notes:
NOTE 1: Install twinning Y's within 15 degrees of level and with 20 inches of straight pipe on converging connection - reference installation manual for additional details including but not limited to special trapping requirements when twinning, and pipe slope requirements

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record
Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.

1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more, 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

CARBON MONOXIDE CONTROLLER								
DESIGNATION	MANUF.	MODEL#	ELEC	AMPS	RELAY RATING	SENSORS	SHIPPING WEIGHT	REMARKS
CD/ND-1	MACURCO	CX-12	120/1	1.0	5 AMPS	CS102A	15 lbs	APP/WET BAYS

INCLUDE: HORN STROBE, CALIBRATION KIT, CONTROL PANEL FAN RELAYS.

APPROVALS: UL			EXHAUST FAN SCHEDULE											
TAG	SERVICE	TYPE	FAN DATA							DAMPER SIZE	ROOF OPENING	WEIGHT (LBS)	GREENHECK MODEL NO	NOTES
			CFM	S.P.	WATT	VOLT	PH	H.P.	RPM					
EF-1	BATHROOMS	INLINE	120	0.35	35	115	1	-	1,400	-	-	26	SP-A190	-

PROVIDE: MOUNTING, HANGING/SPRING VIBRATION ISOLATION, FLASHING OF TERMINATION, FLEXIBLE CONNECTORS, BACKDRAFT DAMPER, DISCONNECT, GRILLE MOUNTED MOTION DETECTOR, ROUND DUCT CONNECTOR, ENERGY STAR.

APPROVALS: UL			EXHAUST FAN SCHEDULE											
TAG	SERVICE	TYPE	FAN DATA							DAMPER SIZE	ROOF OPENING	WEIGHT (LBS)	GREENHECK MODEL NO	NOTES
			CFM	S.P.	AMPS	VOLT	PH	H.P.	RPM					
EF-2	APPARATUS BAYS	ROOF	2025	0.75	7.0	208	1	1.0	1,066	-	-	91	G-160-VG	-

PROVIDE: MOUNTING, VARIGREEN MOTOR, FLASHING OF TERMINATION, FLEXIBLE CONNECTORS, BACKDRAFT DAMPER, DISCONNECT, 24" HIGH CURB,

UNIT HEATER SCHEDULE <GAS FIRED>												
MARK	MANUFACTURER TYPE & MODEL	HEATING / BTU		TEMP. RISE	F.L.A.	MOTOR DATA					WEIGHT	LOCATION(S)
		INPUT	OUTPUT			CFM	HP	VOLTS	PHASE	AMPS		
UH-1	MDMINE HDS-60	60,000	49,200	45°F	3.3	990	1/12	115	1	3.3	80 LBS.	APPARATUS BAY
UH-2	MDMINE HDS-60	60,000	49,200	45°F	3.3	990	1/12	115	1	3.3	80 LBS.	APPARATUS BAY
UH-3	MDMINE HDS-60	60,000	49,200	45°F	3.3	990	1/12	115	1	3.3	80 LBS.	APPARATUS BAY
UH-4	MDMINE HDS-60	60,000	49,200	45°F	3.3	990	1/12	115	1	3.3	80 LBS.	APPARATUS BAY

1. PROVIDE AND INSTALL WALL MOUNTED THERMOSTAT WITH SUB-BASE.
2. PROVIDE AND INSTALL INTAKE AND EXHAUST PIPING, CONCENTRIC ~~XXXX~~ TERMINATION KIT WITH FLASHING.
3. PROVIDE LOCKING THERMOSTAT GUARD.

HEAT RECOVERY VENTILATOR SCHEDULE								
DESIGNATION	MAKE	MODEL	POWER SUPPLY			QTY	H.P.	LISTINGS
			VOLTAGE	PHASE	AMPS			
HRV-1	BROAN	B6LC	120	1	9.5	1	-	UL507/ETL

PROVIDE: OPTIONAL WALL CONTROL, PROGRAMMABLE TIMECLOCK, 4.1kW EDH AND CONTROL WIRING BY MECHANICAL CONTRACTOR.

UNIT HEATER SCHEDULE (ELECTRIC)												
APPROVALS: UL LISTED												
MARK	MANUFACTURER TYPE & MODEL	COILS	WATTS	ENTERING AIR (°F)	BTU/HR.	ELECTRICAL DATA					REMARKS	LOCATION(S)
						CFM	HP	VOLTS	PHASE	AMPS		
EUH-1	QMARK CWH3404F	1	3,000	40	10,236	100	-	208	1	14.5	-	UTILITY RM

PROVIDE: DISCONNECT, WALL MOUNT

APPROVALS: ARI 210/240, ETL, UL LISTED.						HEATPUMP UNIT SCHEDULE									(HEAT OR COOL)	
DESIGNATION	RATING (TONS)	NO. OF MODULES	REFRIG CHARGE	COOLING CAPACITY (BTU'S)	HEATING CAPACITY (BTU'S)	POWER SUPPLY				MAKE	MODEL	SEER/HSPF	LOCATION	SERVICE		
						VOLTAGE	PHASE	MCA	MOCP							
HP-1	2	1	R-410A	24,000	28,000	208/230	1	30	40	MITSUBISHI	MXZ-2C20NAHZ3-U1	19.5/10.6	ROOF	FC-1 & 2		
HP-1	2	1	R-410A	24,000	28,000	208/230	1	18	25	MITSUBISHI	PUZ-HA24NHA1	21.5/11.3	ROOF	FC-3		

INCLUDE: EQUIPMENT RAILS, REFRIGERANT LINE SETS, INSULATION, DISCONNECT, FUSES, WHIP, REMOTE MOUNTED THERMOSTAT.

FAN COIL SCHEDULE													
DESIGNATION	POWER SUPPLY				TONS	COOLING MBH	HEATING MBH	CFM	HP	MAKE	MODEL	LOCATION	WEIGHT
	VOLTAGE	PHASE	MCA	MAX FUSE									
FC-1	208	1	.36	OUTDOOR	2	24.0	24.0	700	-	MITSUBISHI	SLZ-KF12NA.TH	ENGINEER ROOM	46 LBS.
FC-2	208	1	.36	OUTDOOR	2	24.0	24.0	700	-	MITSUBISHI	MSZF509NA-U1	BATHROOM	46 LBS.
FC-3	208	1	.36	OUTDOOR	2	24.0	24.0	700	-	MITSUBISHI	PLAEA7R1.TH	READY ROOM	56 LBS.

NOTES: PROVIDE DISCONNECT SWITCH, FILTERS, CONDENSATE DRAIN PIPING, REFRIG. PIPING & INSULATION, 7 DAY PROGRAMMABLE THERMOSTAT, CONTROLS, CONTROL WIRING, CONDENSATE PUMP.

CEILING HVLS CIRCULATING FAN SCHEDULE											
APPROVALS: UL											
DESIGNATION	MAKE	MODEL	POWER SUPPLY			MOCP	H.P.	RPM	#AIRFOILS	WEIGHT	LISTINGS
			VOLTAGE	PHASE	AMPS						
VF-1,2	MACROAIR	8'	208	3	10.8	15	1.0	142	6	171 LBS.	UL
PROVIDE: AIRLYNK, CONTROLLER 30, LOCAL OVERRIDE REMOTE, CONTROL WIRING, MOUNTING, INPUTS FOR FIRE ALARM AND CD-ND CONTROLLER, SAFETY CABLE, BLADE RETAINER LINKS.											

PROVIDE: AIRLYNK, CONTROLLER 30, LOCAL OVERRIDE REMOTE, CONTROL WIRING, MOUNTING, INPUTS FOR FIRE ALARM AND CO-ND CONTROLLER, SAFETY CABLE, BLADE RETAINER LINKS.

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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

MECHANICAL EQUIPMENT
SCHEDULES & RISER DIAGRAM

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

M-5

Diagram illustrating the fireproofing of a pipe penetration through a wall. The diagram shows a cross-section of a wall with a pipe passing through it. The pipe is surrounded by a sleeve, which is labeled "PIPE SLEEVE, 1\"

Diagram illustrating the correct installation of a heavy-duty galvanized sheetmetal hood welded construction. The diagram shows a cross-section of a roof assembly. A heavy-duty galvanized sheetmetal hood welded construction is shown, which is secured to a wood nailer with sheetmetal screws. The hood is designed to seal voids, air, and water tight. The hood is connected to piping, conduit, etc. The diagram also shows the flashing and the pre-fab roof curb.

Labels in the diagram:

- HEAVY DUTY GALVANIZED SHEETMETAL HOOD WELDED CONSTRUCTION
- SECURE TO WOOD NAILER WITH SHEETMETAL SCREWS
- PRE-FAB ROOF CURB
- SEAL VOIDS AIR AND WATER TIGHT
- FLASHING
- PIPING, CONDUIT, ETC.

Diagram illustrating a typical pipe support system. The system consists of multiple pipes (labeled "MULTIPLE PIPES AS REQUIRED") supported by a horizontal beam (labeled "UNISTRUT"). The pipes are insulated (labeled "PIPE INSULATION (TYPICAL)") and rest on vibration isolators (labeled "VIBRATION ISOLATOR RE: SPEC'S"). The pipes are secured by all-thread rods (labeled "ALL THREAD ROD") and pipe saddles (labeled "PIPE SADDLE (TYP) RE: SPEC'S"). The system is designed for attachment to a structure (labeled "RE: SPEC'S FOR ATTACHMENT TO STRUCTURE").

Diagram illustrating the components and installation details of a roof-mounted fire alarm control unit:

- UNIT MOUNTED DISCONNECT SWITCH WITH CONDUIT THROUGH CURB
- 1/2" MESH BIRDSCREEN
- ROOF MOUNTED CENTRIFUGAL EXHAUST FAN
- FLASHING
- FLASHING AND COUNTERFLASH INTO ROOFING MEMBRANE RE: ARCHITECTURAL ROOFING DETAILS.
- SECURE FAN TO CURB WITH 3/4" LONG SHEETMETAL SCREWS 12" O.C. (MINIMUM 2 PER SIDE)
- INSULATION GASKETED ROOF CURB. SECURE CURB TO STRUCTURE WITH APPROPRIATE FASTENERS 12" O.C. (MINIMUM 2 PER SIDE AS REQUIRED)
- FIRESTAT MOUNTED IN EXHAUST AIRSTREAM (WHERE SPECIFIED)
- TRANSITION DUCT AS REQUIRED TO CONNECT TO FAN DAMPER TRAY
- GRAVITY OR MOTORIZED BACKDRAFT DAMPER AS SPECIFIED

Diagram illustrating the HANGER DETAIL for ducts, showing the connection between the JOIST, I-BEAM, BEAM CLAMP OR CADDY CLAMP, BOLT, DOUBLE SHEET METAL SCREWS, and the DUCT. The maximum width of the duct is 60\"/>

HANGER SIZE		HANGER SPACING	
DUCT SIZE	HANGER SIZE	DUCT SIZE	MAX. SPACING
UP TO 2 SQ. FT.	1\"/>	UP TO 4 SQ. FT.	8'-0\"/>
2 TO 8 SQ. FT.	1\"/>	4 TO 10 SQ. FT.	6'-0\"/>
OVER 8 SQ. FT.	1\"/>	OVER 10 SQ. FT.	4'-0\"/>

NOTES:

1. ALL SUPPLEMENTARY STEEL OR ANGLE TO BE EITHER GALVANIZED OR BLACK.
2. DUCTS OVER 60\"/>

The drawing consists of two views: a **SIDE ELEVATION** on the left and a **SECTION** on the right. The side elevation shows a damper blade with a handle and locking quadrant, mounted on a duct with insulation. The section view shows the internal components, including the damper blade, handle, and locking quadrant, mounted on a duct with insulation. The section view also shows the damper blade mounted on a duct with insulation, and the damper blade mounted on a duct with insulation.

Labels and Callouts:

- STIFFEN BLADE AS REQUIRED
- INSULATION SEE SPECIFICATION
- DUCT
- INSULATION STAND-OFF
- DAMPER BLADE
- HANDLE WITH LOCKING QUADRANT
- INSIDE END BEARING
- 1/8" CLEARANCE ALL AROUND
- 1/2" ROUND ROD
- OUTSIDE END BEARING

NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
1. DETAIL SHOWS SINGLE BLADE DAMPER, DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

Technical drawing of a duct connection. The drawing shows a cross-section of a duct assembly. A horizontal duct is shown with a vertical duct connected to it. The vertical duct has a flange with a hem. A bolt is shown on the flange. A band iron is shown around the duct. Flexible material is shown between the duct and the band iron. A pocket slip is shown on the vertical duct. The drawing is labeled with the following text:

- ALTERNATE POSITION OF BOLT
- 1" FLANGE & HEM
- BOLT ON 4" CENTERS
- 1"x1/8" BAND IRON
- FLEXIBLE MATERIAL AS SPECIFIED
- SHEET METAL AS SPECIFIED FOR DUCTWORK.
- 1-1/2" POCKET SLIP
- DUCT
- 1-1/2" MIN. TO 3" MAX. INSTALLED. 6" NOMINAL WITH MATERIAL TAUT
- WASHER
- FLANGED CONNECTION
- SHEET METAL AS SPECIFIED FOR

DATE: 10-14-2022
7.18.22 FOR BID
10-14-2022 ISSUED FOR
CONSTRUCTION
DOCUMENTS

A circular professional seal for Martin F. Seidlowski, a Registered Architect in the State of New York. The seal features the text "REGISTERED ARCHITECT" at the top, "MARTIN F. SEIDLOWSKI" in the center, and "STATE OF NEW YORK" at the bottom. The number "No. 017163" is also visible. The seal is crossed out with a large, bold, handwritten "X".

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MECHANICAL DETAILS

CAD FILE: 21-08/P: /BID

M-6

2020 MECHANICAL CODE AND BUILDING CODE OF NEW YORK STATE:

1. Heating, ventilating and air-conditioning systems of all structures shall be designed and installed for efficient utilization of energy in accordance with the International Energy Conservation Code of New York State.

2. The approval and installation of fuel gas distribution piping and equipment, fuel gas-fired appliance venting systems shall be in accordance with the International Fuel Gas Code. As per Section 301.6 Fuel gas appliances and equipment.

3. All appliances regulated by this code shall be listed and labeled for the application in which they are installed and used, unless otherwise approved in accordance with section 105. As per section 301.7 of the 2020 International Mechanical Code of New York State. Exception: Listing and labeling of equipment and appliances used for refrigeration shall be in accordance with section 1101.2.

4. The building or structure shall not be weakened by the installation of mechanical systems. Where floors, walls, ceilings or any other portion of the building or structure are required to be altered or replaced in the process of installing or repairing any system, the building or structure shall be left in a safe structural condition in accordance with the 2020 International Building Code of New York State.

5. Penetrations of floor/ceiling assemblies and assemblies required to have a fire-resistance rating shall be protected in accordance with Chapter 7 of the 2020 International Building Code of New York State.

6. Where sleeves are used, they shall be securely fastened to the assembly penetrated. The space between the item contained in the sleeve and the sleeve itself and any space between the sleeve and the assembly penetrated shall be protected in accordance with this section. Insulation and coverings on or in the penetrating item shall not penetrate the assembly unless the specific material used has been tested as part of the assembly in accordance with this section. As per Section 714.3 Installation details of the 2020 International Building Code of New York State.

7. Penetrations into or through fire walls, fire barriers, smoke barrier walls, and fire partitions shall comply with Sections 714.4.1–714.4.3 of the International Building Code (IBC). Penetrations in smoke barrier walls shall also comply with Section 714.5.4 of the 2020 IBCNYS.

8. Through penetrations of fire-resistance-rated walls shall comply with Section 714.4.1.1 or 714.4.1.2 of the 2020 IBCNYS.
Exceptions: Where the penetrating items are steel, ferrous or copper pipes, tubes or conduits, the annular space between the penetrating item and the fire-resistance-rated wall shall be permitted to be protected by either of the following measures:
1. In concrete or masonry walls where the penetrating item is a maximum 6-inch (152 mm) nominal diameter and the opening is a maximum 144 square inches (0.0929 m2), concrete, grout or mortar shall be permitted where installed the full thickness of the wall or the thickness required to maintain the fire-resistance rating.
2. The material used to fill the annular space shall prevent the passage of flame and hot gases sufficient to ignite cotton waste where subjected to ASTM E 119 or UL 263 time-temperature fire conditions under a minimum positive pressure differential of 0.01 inch (2.49 Pa) of water at the location of the penetration for the time period equivalent to the fire-resistance rating of the construction penetrated. As per Section 714.4.1 Through penetrations of the 2020 IBCNYS.

9. Through penetrations shall be protected using systems installed as tested in the approved fire-resistance-rated assembly. As per Section 714.4.1.1 Fire-resistance-rated assemblies of the 2020 IBCNYS.

10. Through penetrations shall be protected by an approved penetration firestop system installed as tested in accordance with ASTM E814 or UL 1479, with a minimum positive pressure differential of 0.01 inch (2.49 Pa) of water and shall have an F rating of not less than the required fire-resistance rating of the wall penetrated. As per Section 714.4.1.2 Through-penetration firestop system of the 2020 IBCNYS.

11. Penetrations of fire-resistance-rated walls by ducts that are not protected with dampers shall comply with this Sections 714.3–714.4.3 of the IBC. Penetrations of horizontal assemblies not protected with a shaft and not required to be protected with fire dampers by other sections of this code, shall comply with Sections 714.5–714.6.2 of the 2020 IBCNYS. Ducts and air transfer openings that are protected with dampers shall comply with Section 717. As per Section 714.1.1 Ducts and air transfer openings of the 2020 IBCNYS.

12. Noncombustible penetrating items shall not connect combustible items beyond the point of firestopping unless it can be demonstrated that the fire-resistance integrity of the wall is maintained. As per Section 714.4.3 Dissimilar materials of the 2020 IBCNYS.

13. Penetrations of a fire-resistance-rated floor, floor/ceiling assembly or the ceiling membrane of a roof/ceiling assembly not required to be enclosed in a shaft by Section 712.1 shall be protected in accordance with Sections 714.5.1 through 714.5.4. of the 2020 IBCNYS.

14. Through penetrations of fire-resistance-rated horizontal assemblies shall comply with Section 714.5.1.1 or 714.5.1.2 of the 2020 IBCNYS.
Exceptions:
1. Penetrations by steel, ferrous or copper conduits, pipes, tubes or vents or concrete or masonry items through a single fire-resistance-rated floor assembly where the annular space is protected with materials that prevent the passage of flame and hot gases sufficient to ignite cotton waste when subjected to ASTM E119 or UL 263 time-temperature fire conditions under a minimum positive pressure differential of 0.01 inch (2.49 Pa) of water at the location of the penetration for the time period equivalent to the fire-resistance rating of the construction penetrated. Penetrating items with a maximum 6-inch (152 mm) nominal diameter shall not be limited to the penetration of a single fire-resistance-rated floor assembly, provided that the aggregate area of the openings through the assembly does not exceed 144 square inches (92 900 mm2) in any 100 square feet (9.3 m2) of floor area.
2. Penetrations in a single concrete floor by steel, ferrous or copper conduits, pipes, tubes or vents with a maximum 6-inch (152 mm) nominal diameter, provided that the concrete, grout or mortar is installed the full thickness of the floor or the thickness required to maintain the fire-resistance rating. The penetrating items shall not be limited to the penetration of a single concrete floor, provided that the area of the opening through each floor does not exceed 144 square inches (92 900 mm2).
3. Penetrations by listed electrical boxes of any material, provided that such boxes have been tested for use in fire-resistance-rated assemblies and installed in accordance with the instructions included in the listing.
As per Section 714.5.1 Through penetration of the 2020 IBCNYS.

15. Through penetrations shall be protected using systems installed as tested in the approved fire-resistance-rated assembly. As per Section 714.5.1.1 of the 2020 IBCNYS.

16. Through penetrations shall be protected by an approved through-penetration firestop system installed and tested in accordance with ASTM E814 or UL 1479, with a minimum positive pressure differential of 0.01 inch of water (2.49 Pa). The system shall have an F rating/T rating of not less than 1 hour but not less than the required rating of the floor penetrated.
Exceptions:
1. Floor penetrations contained and located within the cavity of a wall above the floor or below the floor do not require a T rating..
2. Floor penetrations by floor drains, tub drains or shower drains contained and located within the concealed space of a horizontal assembly do not require a T rating.
3. Floor penetrations of maximum 4-inch (102 mm) nominal diameter metal conduit or tubing penetrating directly into metal-enclosed electrical power switchgear do not require a T rating.
As per Section 714.5.1.2 Through-penetration firestop system of the 2020 IBCNYS.

17. Penetrations of horizontal assemblies without a required fire-resistance rating shall meet the requirements of Section 707 of the 2020 IBCNYS or shall comply with Sections 302.2.3.2.1 through 302.2.3.2.2. As per Section 302.2.3.2 Nonfire-resistance-rated assemblies.

2020 MECHANICAL CODE AND BUILDING CODE OF NEW YORK STATE:

18. Noncombustible penetrating items that connect not more than five stories are permitted, provided that the annular space is filled to resist the free passage of flame and the products of combustion with an approved noncombustible material or with a fill, void or cavity material that is tested and classified for use in through-penetration firestop systems. As per Section 714.6.1 Noncombustible penetrating items of the 2020 IBCNYS.

19. Penetrating items that connect not more than two stories are permitted, provided that the annular space is filled with an approved material to resist the free passage of flame and the products of combustion. As per Section 714.6.2 Penetrating items of the 2020 IBCNYS.

20. Hangers and anchors shall be attached to the building construction in an approved manner. As per Section 305.3 Structural attachment.

21. Piping shall be supported at distances not exceeding the spacing specified in Table 305.4, or in accordance with ANSI/MSS SP–69. As per Section 305.4 Interval of support.

22. Truss members and components shall not be cut, drilled, notched, spliced or otherwise altered in any way without written concurrence and approval of a registered design professional. Alterations resulting in the addition of loads to any member, such as HVAC equipment and water heaters, shall not be permitted without verification that the truss is capable of supporting such additional loading. As per Section 302.4 of the 2020 IMCNYS Alteration to trusses.

23. The cutting, notching and boring of steel framing members shall comply with Sections 302.5.1 through 302.5.3. As per Section 302.5 of the 2020 IMCNYS Cutting, notching and boring in steel framing.

24. The cutting, notching and boring of holes in structural steel framing members shall be as prescribed by the registered design professional. As per Section 302.5.1 of the 2020 IMCNYS Cutting, notching and boring holes in structural steel framing.

25. Flanges and lips of load-bearing cold-formed steel framing members shall not be cut or notched. Holes in webs of load-bearing cold-formed steel framing members shall be permitted along the centerline of the web of the framing member and shall not exceed the dimensional limitations, penetration spacing or minimum hole edge distance as prescribed by the registered design professional. Cutting, notching and boring holes in steel floor/roof decking shall be as prescribed by the registered design professional. As per Section 302.5.2 of the 2020 IMCNYS Cutting, notching and boring holes in cold-formed steel framing.

26. Flanges and lips of nonstructural cold-formed steel wall studs shall not be cut or notched. Holes in webs of nonstructural cold-formed steel wall studs shall be permitted along the centerline of the web of the framing member, shall not exceed 1–1/2 inches (38 mm) in width or 4 inches (102 mm) in length, and shall not be spaced less than 24 inches (610 mm) center to center from another hole or less than 10 inches (254 mm) from the bearing end. As per Section 302.5.3 of the 2020 IMCNYS Cutting, notching and boring holes in non-structural cold-formed steel wall framing.

TABLE 305.4 – PIPING SUPPORT SPACING (a)		
PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (FEET)	MAXIMUM VERTICAL SPACING (FEET)
ABS PIPE	4	10 (c)
ALUMINUM PIPE AND TUBING	10	15
CAST-IRON PIPE (b)	5	15
COPPER OR COPPER-ALLOY PIPE	12	10
COPPER OR COPPER-ALLOY TUBING	8	10
CPVC PIPE OR TUBING, 1 INCH AND SMALLER	3	10 (c)
CPVC PIPE OR TUBING, 1½ INCHES AND LARGER	4	10 (c)
LEAD PIPE	CONTINUOUS	4
PB PIPE OR TUBING	2½ (32 INCHES)	4
PE-RT 1 INCH AND SMALLER	2½ (32 INCHES)	10 (c)
PE-RT 1½ INCHES AND LARGER	4	10 (c)
PEX TUBING 1 INCH AND SMALLER	2½ (32 INCHES)	10 (c)
PEX TUBING 1½ INCHES AND LARGER	4	10 (c)
POLYPROPYLENE (PP) PIPE OR TUBING, 1 INCH AND SMALLER	2½ (32 INCHES)	10 (c)
POLYPROPYLENE (PP) PIPE OR TUBING, 1½ INCHES AND LARGER	4	10 (c)
PVC PIPE	4	10 (c)
STEEL TUBING	8	10
STEEL PIPE	12	15

a. See Section 301.18.
b. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.
c. Mid-story guide.

29. Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). As per Section 307.1 of the 2020 IMCNYS Fuel-burning appliances.

30. Heating and cooling system design loads for the purpose of sizing systems, appliances and equipment shall be determined in accordance with the procedures described in the ASHRAE/ACCA Standard 183. Alternatively, design loads shall be determined by an approved equivalent computation procedure, using the design parameters specified in Chapter 3 [CE] of the Energy Conservation Construction Code of New York State. As per Section 312.1 of the 2020 IMCNYS Load Calculations.

31. Ventilation systems shall be designed to have the capacity to supply the minimum outdoor airflow rate determined in accordance with Table 403.3.1.1 based on the occupancy of the space and the occupant load or other parameter as stated therein. The occupant load utilized for design of the ventilation system shall not be less than the number determined from the estimated maximum occupant load rate indicated in Table 403.3.1.1. Ventilation rates for occupancies not represented in Table 403.3.1.1 shall be determined by an approved engineering analysis. The ventilation system shall be designed to supply the required rate of ventilation air continuously during the period the building is occupied, except as otherwise stated in other provisions of the code. Exception: The occupant load is not required to be determined based on the estimated maximum occupant load rate indicated in Table 403.3.1.1 where approved statistical data document the accuracy of an alternate anticipated occupant density. As per Section 403.3.1.1 of the 2020 IMCNYS Ventilation rate.

2020 MECHANICAL CODE AND BUILDING CODE OF NEW YORK STATE:

32. Ducts and air transfer openings that penetrate fire barriers shall be protected with listed fire dampers installed in accordance with their listing. Ducts and air transfer openings shall not penetrate enclosures for interior exit stairways and ramps and exit passageways except as permitted by Sections 1023.5 and 1024.6, respectively, of the 2020 International Building Code of NYS. Exception: Fire dampers are not required at penetrations of fire barriers where any of the following apply.
1. Penetrations are tested in accordance with ASTM E 119 or UL 263 as part of the fire-resistancerated assembly.
2. Ducts are used as part of an approved smoke control system in accordance with Section 513 and where the fire damper would interfere with the operation of the smoke control system.
3. Such walls are penetrated by ducted HVAC systems, have a requiredfire-resistance rating of 1 hour or less, are in areas of other then Group H and are in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.1.1 or 903.1.2 of the 2020 International Building Code of NYS. For the purposes of this exception, a ducted HVAC system shall be a duct system for the structure's HVAC system. Such a duct system shall be constructed of sheet steel not less than 26 gage [0.017 inch (0.55mm)] thickness and shall be continuous from the air-handling appliance or equipment to the air outlet and inlet terminals.

DATE: ISSUE

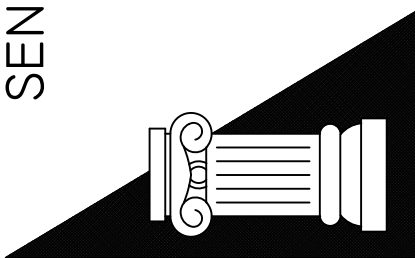
7.18.22 FOR BID



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MECHANICAL NOTES

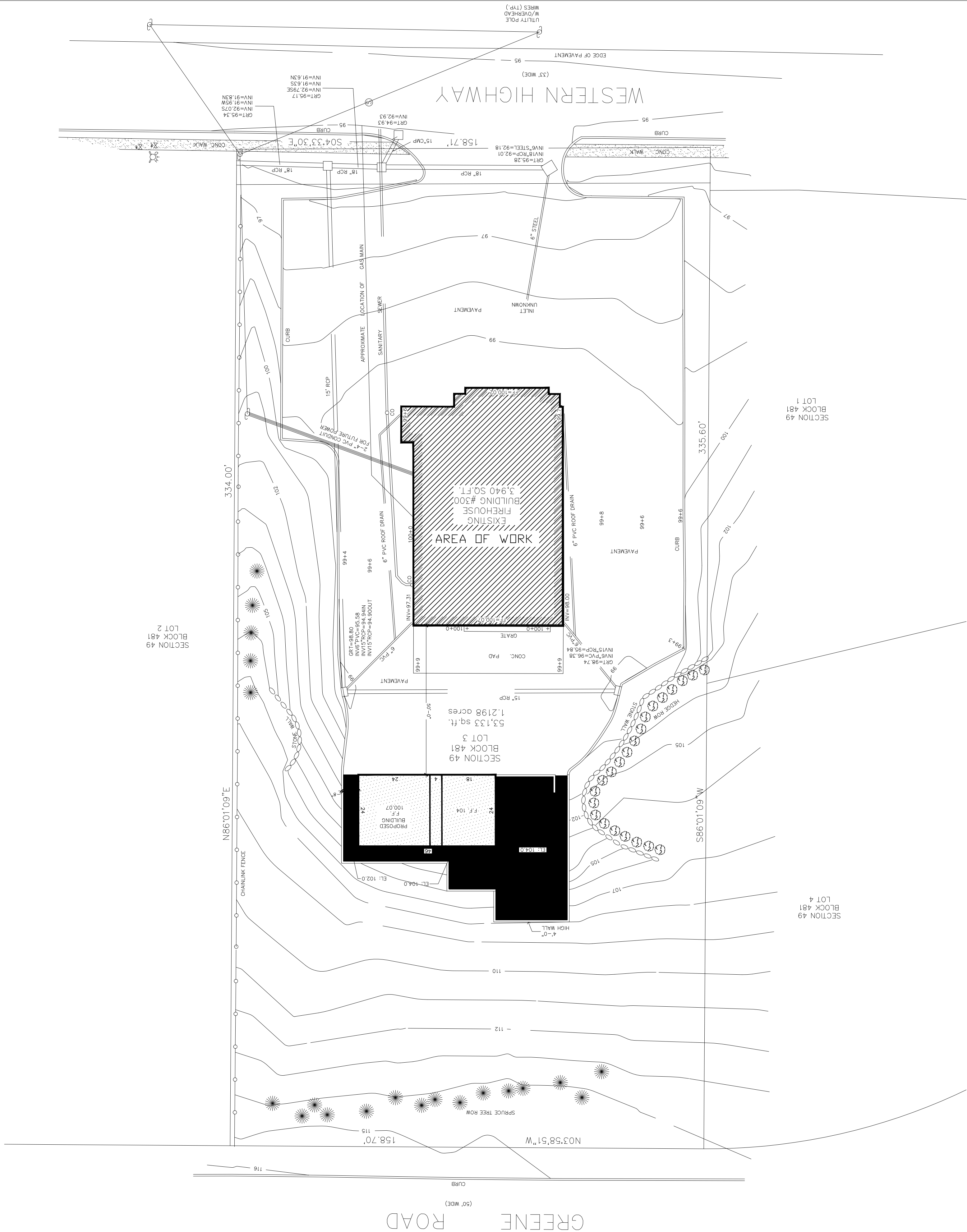
PROJECT #: 21–08

DRAWN BY:

CAD FILE: 21–08/P:/BID

DRAWING#:

M–7



- DRAWING LIST:
- P-1 PLUMBING SITE PLAN
 - P-2 PLUMBING FIXTURE SCHEDULE & SPECIALTY SCHEDULE
 - P-3 FIRST FLOOR DOMESTIC WATER PLAN
 - P-4 MEZZANINE FLOOR DOMESTIC WATER PLAN
 - P-5 FIRST FLOOR SANITARY PLAN
 - P-6 MEZZANINE FLOOR SANITARY PLAN
 - P-7 ROOF PLUMBING PLAN
 - P-8 DOMESTIC WATER RISER DIAGRAM, SANITARY RISER DIAGRAM, NATURAL GAS RISER DIAGRAM
 - P-9 PLUMBING DETAILS
 - P-10 PLUMBING NOTES

SCOPE OF WORK:
THIS INSTALLATION SHALL CONFORM WITH WITH THNT, 2020 NYSECC, 2020 NYSBC, 2020 NYSFC, 2020 NYSFGC. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR PAY FOR AND OBTAIN ALL FILINGS, APPROVALS, PERMITS AND SIGNOFFS FOR THIS PROJECT.

THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL ITEMS NOTED BELOW AND WITHIN THESE DRAWINGS.

- A 1" DOMESTIC WATER SERVICE INCLUDING THE CURB VALVE, EXISTING STREET CONNECTION TO REMAIN, INCLUDE NEW BACKFLOW PREVENTION, ALL FIXTURES, EQUIPMENT, PIPING AND INSULATION WITHIN THE SCOPE AND PLANS.
- (1) HOT WATER SYSTEM WHICH WILL INCLUDE (1) TANK TYPE HIGH EFFICIENCY NATURAL GAS FIRED WATER HEATER, INSULATED RE-CIRCULATION LINES, BALANCING VALVES AND PUMP WITH TIMER.
- A NEW 4" SANITARY SERVICE FROM THE EXISTING BUILDING LINE CONNECTION. THIS SERVICE WILL INCLUDE A CLEANOUT AND VENTING SYSTEM FOR ALL FIXTURES ATTACHED.
- MODIFICATION TO AN EXISTING NATURAL GAS SERVICE. THE SERVICE WILL PROVIDE GAS TO NEW A WATER HEATER, NEW UNIT HEATERS AND EXISTING BACKUP GENERATOR.
- ALL COPPER PIPING ASSOCIATED WITH AIR & WATER HOSE REELS.
- ALL MECHANICAL EQUIPMENT CONDENSATE PIPING TO INDIRECT DRAINS.
- AIR COMPRESSOR, DRYER, COUPLINGS, REELS, CONCRETE PAD FOR THE AIR COMPRESSOR.
- REFER TO ARCHITECTURAL STAGING AND DEMOLITION WORK DRAWINGS FOR ADDITIONAL WORK TO BE INCLUDED WITHIN THE BASE BID.
- ALL TRENCHING, EXCAVATING AND BACKFILLING REQUIRED FOR THE INSTALLATION OF ANY SUBSURFACE WORK WITHIN THESE DRAWINGS IS TO BE PROVIDED BY THE PLUMBING CONTRACTOR.
- ALL MASONRY & FOUNDATION SLEEVES REQUIRED SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR IN COORDINATION WITH THE GC SCHEDULE OF MASONRY/CONCRETE WORK.
- REFER TO SITE DEMOLITION PLAN FOR ALL PLUMBING CONTRACTOR RELATED DEMO WORK, INCLUDING BUT NOT LIMITED TO CUTTING BACK OF EXISTING SYSTEMS TO LOCATIONS SPECIFIED.

REMOVED ALLOWANCE

DATE: 7.18.22
ISSUE FOR BID



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TAPPAN NY, 10983

PLUMBING SITE PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

P-1

FIXTURE SCHEDULE	
WC – FLOOR MOUNTED WATER CLOSET (ADA COMPLIANT) <u>FIXTURE</u> FLOOR MOUNTED ELONGATED SIPHON ACTION BOWL, VITREOUS CHINA WITH SEAT, OPERATES AT 1.00 GPF, PRESSRE ASSIST MODEL K–3519 KOHLER HIGHLINE SERIES. WITH TOILET SEAT. <u>LAV UNDERMOUNT LAVATORY</u> <u>FIXTURE</u>: CLASSIC OVAL UNDERMOUNT SINK, VITREOUS CHINA, UNGLAZED RIM, FRONT OVERFLOW, OVAL 17"x14" BOWL, CENTER DRAIN, SUPPLIED WITH UNDERCOUNTER MOUNTING KIT AMERICAN STANDARD ESTATE MODEL 0484.000 <u>TRAP</u> 1 1/4" CHROME PLATED "P" – TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE. <u>SUPPLY</u> 3/8" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS. <u>FAUCET</u> HARDWIRED, DECK MOUNTED, INFRARED SENSOR, 0.5 GPM, MULTI–LAMINAR SPRAY TYPE, 4" TRIM PLATE, POLISHED CHROME, BELOW DECK CONTROL ACCESS, BELOW DECK THERMOSTATIC MIXING VALVE, ADA COMPLIANT, ASME A112.18.1 COMPLIANT. MODEL: SLOAN OPTIMA ETF–880. <u>SHWR SHOWER (ADA)</u> <u>BASE</u> BARRIER FREE PRECAST TERRAZZO 60"x36" (60" WIDE THRESHOLD) FLANGES ON THREE (3) SIDES SHALL BE GALVANIZED–BONDERIZED STEEL AND EXTEND NOT LESS THAN 1" ABOVE SHOULDERS, SHOULDERS ON THREE (3) SIDES SHALL NOT BE LESS THAN 2–½" INSIDE FOR INSTALLATION. THRESHOLD SHALL BE NOT MORE THAN ½" ABOVE RECEPTOR FLOOR TO ALLOW FOR BARRIER FREE ENTRANCE. DRAIN BODY WILL BE BRASS, CAST INTEGRAL, AND WILL PROVIDE FOR A NON–CAUKED CONNECTION NOT LESS THAN ONE (1) INCH DEEP TO A 2" PIPE. RECEPTOR. THE RECEPTOR CONSTRUCTION SHALL BE OF TAN AND WHITE MARBLE CHIPS CAST IN WHITE PORTLAND CEMENT TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI, SEVEN (7) DAYS AFTER CASTING. TERRAZZO SURFACE SHALL BE GROUND, POLISHED, AND THE ENTIRE UNIT SEALED TO RESIST STAINS AND MOSTURE AFTER ANY AIR HOLES AND OR PITS ARE GROUND. RECEPTOR SHALL BE REINFORCED WITH 16 GAUGE WIRE AND FURNISHED WITH REMOVABLE STAINLESS STEEL STRAINER PLATE. FLORESTONE OR EQUAL MODEL No. 400. <u>TRAP</u> 2" CAST IRON <u>SUPPLY</u> 1/2" NPT DIRECT SWEAT TYPE <u>SHOWER FITTING</u> CAST BRASS VALVE BODY, WASHERLESS 47mm CERAMIC DISC VALVE CARTRIDGE WITH VOLUME CONTROL, TEMPERATURE CONTROL, SCREWDRIVER STOPS, AND HOT LIMIT SAFETY STOP. PRESSURE BALANCING CARTRIDGE MAINTAINS CONSTANT OUTPUT TEMPERATURE IN RESPONSE TO CHANGES IN RELATIVE HOT AND COLD WATER SUPPLY PRESSURE AND AVOIDS FAILURE DUE TO MINERAL DEPOSITS. TRIM SHALL BE POLISHED CHROME AND INCLUDE MINIMUM 2.5 GPM FLOW RESTRICTED ADJUSTABLE SPRAY SHOWER HEAD, CHROME METAL LEVER HANDLE, CHROME PLATED BRASS WALL ESCUTCHEON AND SHOWER ARM. AMERICAN STANDARD OR EQUAL VALVE BODY MODEL NO. R125SS, AND TRIM MODEL NO T000.501	MOP MOP SINK <u>FIXTURE</u> TERRAZZO, SQUARE DROP FRONT MOP RECEPTOR, 12" HIGH AND 1–¾" WIDE SHOULDER, GALVANIZED BONDERIZED STEEL FLANGE WILL BE CAST INTEGRAL AND EXTEND AT LEAST 1" ABOVE SHOULDER ON TWO (2) SIDES, 3" DRAIN, STAINLESS STEEL CAP TO BE CAST INTEGRAL ON DROP. SIDE DRAIN BODY SHALL BE BRASS CAST INTEGRAL AND PROVIDES FOR A NON–CAULKED CONNECTION NOT LESS THAN 1" DEEP TO A 3"PIPE. RECEPTOR SHALL BE MANUFACTURED OF TAN AND WHITE MARBLE CHIPS CAST IN WHITE PORTLAND CEMENT WITH A COMPRESSIVE STRENGTH OF 3000 PSI, TERRAZZO SURFACE SHALL BE GROUND AND POLISHED WITH ALL AIR HOLES AND OR PITS GROUTED AND THE EXCESS REMOVED AND SEALED TO RESIST STAINS AND MOISTURE. RECEPTOR SHALL BE REINFORCED WITH 16 GA. WIRE. OVERALL SIZE 24"Lx24"Wx12"H WITH FLANGE. FLORESTONE OR EQUAL MODEL 60LH–24"x24"–12" <u>STRAINER</u>– DOME TYPE CHROME PLATED FLORESTONE OR EQUAL MODEL NO. MR–376 <u>MOP HANGER</u>– WALL MOUNTED WITH 3 CLAMPS FLORESTONE OR EQUAL MODEL NO. MR–372 <u>HOSE</u>– ¾" HOSE FIVE FEET LONG WITH CLAMP FLORESTONE OR EQUAL MODEL NO. MR–370 <u>SUPPLY</u> 1/2" NPT SWEAT TYPE, CHROME PLATED WITH STOP VALVES. <u>FAUCET</u>– ROUGH CHROME PLATED CAST BRASS, ½ TURN CERAMIC CARTRIDGES, VANDAL–RESISTANT FOUR ARM HANDLES WITH COLOR CODED INDEXES. CAST BRASS NOZZLE WITH ¾" HOSE THREAD, PAIL HOOK AND TOP BRACE. BRASS VACUUM BREAKER, BRASS TOP BRACE ASSEMBLY WITH ADJUSTABLE THREADED BRASS WALL FLANGE, & ½"NPTF INLETS. SPEAKMAN OR EQUAL MODEL NO SC–5811–RCP <u>EYE WASH STATION (AT APP BAY)</u> <u>FIXTURE</u> ULINE MODEL H-5795 <u>TRAP</u> – 1 1/4" CHROME PLATED "P" – TRAP, TRAP NIPPLE AND ESCUTCHEON PLATE. <u>SUPPLY</u> – 1/2" NIPPLES AND ESCUTCHEONS WITH 3/8" ANGLE STOPS. <u>HS HANDSINK</u> <u>FIXTURE</u>– SINGLE COMPARTMENT 17"Lx16"Wx7–58"DEEP BOWL,COUNTERTOP 18 GAUGE TYPE 304 18–8 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, COVED CORNERS 1–¾" VERTICAL AND HORIZONTAL RADIUS, BOWL AND FAUCET DECK RECESS ¾" BELOW OUTSIDE EDGE OF SINK, FULLY COATED UNDERSIDE TO DAMPEN SOUND AND PREVENT CONDENSATE, AND FOUR (4) 1–½" Ø FAUCET HOLES @ 4" CENTERS. ELKAY OR EQUAL "LUSTERTONE" MODEL No. 1716 <u>SUPPLY</u> 3/8" OD COMPRESSION TYPE FITTINGS WITH CHROME PLATED STOP VALVES. <u>TRAP</u> 1–1/2" TAILPIECE & ESCUTCHEON CHROME PLATED <u>FAUCET</u> ADA COMPLIANT, DUAL HANDLE MIXING FAUCET ON DECK MOUNTED ESCUTCHEON. METAL HANDLES, TUBULAR BRASS HI–ARC CONTEMPORARY STYLE SWING SPOUT WITH RESTRICTED FLOW AERATOR FINISHED IN CHROME PLATE. REMOVABLE DIACORE CARTRIDGES AND 150° TURN OF THE HANDLE CONTROLS FROM DRIP–FREE OFF TO FULL ON. RETRACTABLE SPRAY AND HOSE, WITH 4 FAUCET HOLES REQUIRED AND ½" IP CONNECTIONS. FLOW RATE 2.5 GPM MAX. @ 80 PSI. ELKAY OR EQUAL MODEL NO. LK2443. <u>HANDLES</u> CHROME PLATED WRIST BLADE TYPE "AMARILLUS SERIES" AMERICAN STANDARD OR EQUAL MODEL NO. 172H <u>HR – 1 CEILING MOUNTED AIR & WATER HOSE REELS</u> <u>DESCRIPTION</u>: HEAVY DUTY REEL WITH INDUSTRIAL DUTY CHANNEL FRAME CONSTRUCTION. CHAIN AND SPROCKET DRIVE POWERED BY 1/2 HP 115V ELECTRIC MOTOR & OPTIONAL CHAIN CLUTCH REDUCTION UNIT, AND AUXILIARY CRANK REWIND. 1/2" NPT BRONZE INLET & OUTLET. REEL SHALL BE CAPABLE OF HANDLING 100' OF HOSE. HANNAY MODEL NO. E1516–17–18 OR EQUAL. CONTROLLER SHALL BE PURCHASED AND INSTALLED BY PLUMBING CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR. <u>HOSE</u> NON COLLAPSABLE RUBBER HOSE SPIRAL BRAID WRAPPED SYNTHETIC RUBBER HOSE 150LB WORKING PRESSURE FURNISHED WITH BRASS SHANK TYPE COUPLINGS. FURNISH 1/2" 100FT. CONTINUOUS LENGTH. CONTRACTOR SHALL VERIFY ALL REEL COMPONENTS WITH MANUFACTURER, SPECIFICATION OF HOSE REEL GIVEN MAY NOT MENTION ALL ITEMS REQUIRED BUT, THIS WILL NOT EXCUSE THE CONTRACTOR FROM A COMPLETE INSTALLATION AT NO ADDITIONAL COST TO DOWNER.

ALL MODEL NUMBERS SHOWN ARE BASED ON INFORMATION GATHERED DURING DESIGN, AND ARE SUBJECT TO CHANGE BY MANUFACTURER. CONTRACTOR SHALL NOT RELY ON THE MODEL NUMBER ALONE BUT, SHALL RELY ON SPECIFICATIONS SHOWN ON SCHEDULES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR REVISED MODEL NUMBERS. VERIFY ALL MODELS WITH ARCHITECT PRIOR TO PURCHASE OR INSTALLATION.

SPECIALTY SCHEDULE	
CO – 1 FLOOR CLEANOUT <u>DESCRIPTION</u>: ROUND DECK PLUG, 4–¾"Ø FOR A 3" PIPE SIZE & 6"Ø FOR A 4" PIPE SIZE ALL NICKEL BRONZE CONSTRUCTION WITH A POLISHED SCORIATED WATER TIGHT COVER WHICH REQUIRES A SPANNER WRENCH FOR REMOVAL . JR SMITH OR EQUAL FIGURE No. 4890C CO – 2 WALL CLEANOUT <u>DESCRIPTION</u>: DUCO CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREADED PLUG. CHROME PLATED BRONZE ROUND FRAME AND SECURED FACE OF WALL COVER. JR SMITH OR EQUAL MODEL NO. 4436C FS – 1 FLOOR SINK <u>DESCRIPTION</u> 10" DEEP CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED ONE HALF 12" SQUARE GRATE, ALUM. SEDIMENT BUCKET AND DEEP SEAL TRAP. MANUFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 3250–C–12 FN – 1 FUNNEL DRAIN <u>DESCRIPTION</u> 7" DIA. INDIRECT WASTE FUNNEL DRAIN, DUCO CAST IRON WITH ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER, CAULKED 3" PIPE SIZE OUTLET. JR SMITH OR EQUAL MODEL NO. 3811C–DBS. AG–1 AIR GAP FITTING INDIRECT WASTE OUTLETS <u>DESCRIPTION</u> DUCO CAST IRON WITH THREADED OUTLET ONLY, FOR INDIRECT WASTE OUTLETS FROM FIXTURES. FOR PIPE SIZE SEE CONTRACT DRAWINGS. JR SMITH OR EQUAL FIGURE No. 3951T FAI– 1 FRESH AIR INLET <u>DESCRIPTION</u> PROTECTIVE COVER FOR FRESH AIR INLET PIPING AT EXTERIOR WALL POLISHED BRONZE WITH PIPE CLAMP VANDAL PROOF SCREWS. JR SMITH OR EQUAL FIGURE NO. 9005 TCV–1 HOT WATER MIXING VALVE <u>DESCRIPTION</u>: CORROSION RESISTANT WITH A REPLACEABLE THERMOSTATIC SHUTTLE, A PRE–LOADED SPRING ASSEMBLY WHICH SHALL ACT AS AN OVER–TRAVEL MECHANISM. VALVE BODY CAST BRONZE, BRASS RETAINER AND ADJUSTING SCREW, SHUTTLE SHALL BE NORYL, THERMAL ELEMENT SHALL BE BRONZE/STAINLESS STEEL, "O" RINGS BUNA–N, AND STAINLESS STEEL RETURN AND OVER–TRAVEL SPRING. MAXIMUM WORKING PRESSURE 150 PSIG, OPERATING TEMPERATURE RANGE 33°F–180°F. THE HOT WATER INLET TEMPERATURE SHALL BE BETWEEN 120°F AND 180°F. THE COLD WATER INLET TEMPERATURE SHALL BE BETWEEN 41°F AND 70°F. THE MIXED WATER TEMPERATURE SHALL BE 120°F. APOLLO MODEL NO. MVCLF (34CLF SERIES). FD–1 FLOOR DRAIN <u>DESCRIPTION</u> DUCO CAST IRON BODY, WITH FLASHING COLLAR AND 6" DIAMETER GRATE ADJUSTABLE STRAINER HEAD, CAULKED OUTLET ROUND TOP AND DEEP SEAL TRAP WITH REMOVABLE SEDIMENT BUCKET. MANUFACTURED BY JAY R. SMITH OR EQUAL FIGURE NO. 2010–C–A. WHA – 1 WATER HAMMER ARRESTOR <u>DESCRIPTION</u>: ALL STAINLESS STEEL SHOCK ABSORBERS, HEAVY DUTY BALANCED EXPANSION BELLOW, NON–TOXIC HYDRAULIC MINERAL OIL, AND THREADED NPT ENDS. CONTRACTOR SHALL INSTALL SHOCK ABSORBERS AT ALL SOLENOID, REMOTE OPERATED, QUICK CLOSING VALVES, AND INCLUDING ALL LOCATIONS SHOWN ON CONTRACT DRAWINGS. THE P.D.I. FIXTURE UNIT RATINGS SHALL BE RATINGS SHALL BE THE FOLLOWING: A=1–11 F.U.–¾", B=12–32 F.U.–1", C=33–60 F.U.–1", D=61–113 F.U.–1", E=114–154 F.U.–1", & F=155–330 F.U.–1". JR. SMITH OR EQUAL SERIES 5000 NC–1 NEUTRALIZATION KIT <u>DESCRIPTION</u>: THE CONDENSATE NEUTRALIZATION CAPSULE SHALL BE AXIOM INDUSTRIES LTD. MODEL NC–1. SYSTEM SHALL INCLUDE 1 LITRE (0.26 U.S. GALLON) TRANSPARENT CAPSULE MADE FROM CORROSION RESISTANT MATERIALS WITH TWO 3" FILL/ACCESS OPENINGS, 3"INLET AND OUTLET SCREEN, ¾"–14NPT THREADED INLET, ¾"–14NPT THREADED OUTLET, TWO ¾" MNPT X ¾" FNPT UNIONS, THREE ¾" NPT TO ½" HOSE BARB FITTINGS, ½" BARBED Y FITTING, SIX HOSE CLAMPS, 10 FT OF ½" ID VINYL TUBING, TWO BASE/WALL MOUNTING CLAMPS.	P–1 HOT WATER CIRCULATING PUMP <u>DESCRIPTION</u>: HIGH CAPACITY OUTPUT, COMPOSITE HOUSING, MAXIMUM FLUID TEMPERATURE 220 DEG. F, AND MAXIMUM PRESSURE 203 PSI. 120 VOLTS, 60 HZ, SINGLE PHASE, 0.54 AMPS, 1440–3720 RPM. TACO OR EQUAL MODEL No 006e3LC AQUASTAT, TIMER CONTROL. RD – 1 ROOF DRAIN & SECONDARY DRAIN <u>DESCRIPTION</u> DURA COAT CAST IRON DEEP SUMP BODY WITH COMBINATION MEMBRANE FLASHING CLAMP AND GRAVEL STOP, DOUBLE TOP SET DECK PLATE, AND LOW PROFILE CAST IRON DOME. ZURN FIGURE No. Z164 SCUPPER <u>DESCRIPTION</u> DOWNSPOUT NOZZLE FLANGED OUTLET, ZURN MODEL# Z199 WH–1 DOMESTIC HOT WATER HEATER (NATURAL GAS) <u>DESCRIPTION</u>: NATURAL GAS WATER HEATER SHALL BE A. O. SMITH CYCLONE HE MODEL # BTX–80 OR EQUAL, MINIMUM 94% THERMAL EFFICIENCY, A STORAGE CAPACITY OF 50 GALLONS, AN INPUT RATING OF 76,000 BTUS PER HOUR, A RECOVERY RATING OF 95 GALLONS PER HOUR (GPH) AT 90°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 160 PSI. EXPTK– 1 DOMESTIC HOT WATER EXPANSION TANK <u>DESCRIPTION</u>: THE PRESSURIZATION SYSTEM SHALL INCLUDE AN THERM–X–TROL@DIAPHRAGM OR BLADDER TYPE EXPANSION TANK WHICH WILL ACCOMMODATE THE EXPANDED WATER OF THE SYSTEM GENERATED WITHIN THE NORMAL OPERATING TEMPERATURE RANGE, LIMITING THIS PRESSURE INCREASE AT THOSE COMPONENTS IN THE SYSTEM TO THE MAXIMUM ALLOWABLE PRESSURE AT THOSE COMPONENTS. IT SHALL MAINTAIN MINIMUM OPERATING PRESSURE. FURNISH AND INSTALL AS SHOWN ON PLANS A 2.1 GALLON, 10IN. DIAMETER X 10½ IN. (HIGH) AMTROL MODEL ST–5–C. THE EXPANSION TANK SHALL BE WELDED STEEL, CONSTRUCTED, TESTED AND STAMPED IN ACCORDANCE WITH SECTION VIII, DIVISION 1 OF THE ASME CODE FOR A WORKING PRESSURE OF 150 PSIG. FACTORY AIR PRE–CHARGED AND FIELD ADJUSTABLE. ALL WELDS CONFORMING TO ASME SECTION IX. ALL INTERNAL PARTS MUST COMPLY WITH FDA REGULATIONS AND APPROVALS. THE TANK SHALL BE SUPPORTED BY STEEL LEGS OR A BASE (INTEGRAL RING MOUNT) FOR A VERTICAL INSTALLATION. EACH TANK SHALL HAVE A STEEL SHELL AND AN INTERNAL BUTYL/EPDM DIAPHRAGM OR BUTYL BLADDER WITH CODE APPROVALS NSF/ANSI 61 USED TO ISOLATE THE AIR CHARGE FROM FLUID. THE MANUFACTURER SHALL BE AMTROL INC. THE MANUFACTURER SHALL HAVE AT LEAST FIVE YEARS EXPERIENCE IN THE FABRICATION OF BLADDER / DIAPHRAGM–TYPE ASME EXPANSION TANKS. AIR COMPRESSOR <u>DESCRIPTION</u>: INGERSOLL RAND MODEL 2475N5. 17.2 CFM @ 90 PSI, 175 PSI MAX, 5 H.P., 28"L x 38"W x 69"H, ¾" OUTLET, 208V/1PH/60HZ GWSH–1 GEAR WASHER (PURCHASED BY OWNER INSTALLED BY PLUMBER) <u>DESCRIPTION</u>: 60 LB CAPACITY GEAR WASHER EXTRACTOR OVERALL SIZE 34.5"W x 52.3"D x 54.0"H, WATER VALVES 0.8", DRAIN VALVE 3". ELECTRICAL DATA BASKET DRIVE MOTOR– 5 HP, SINGLE MOTOR DRIVE– 5 HP. MFG. MILNOR MODEL No. 30022 V6J

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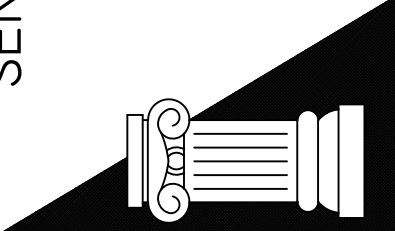
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STATE OF NEW YORK



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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

PLUMBING & SPECIALTY SCHEDULES

PROJECT #: 21–08

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P–2

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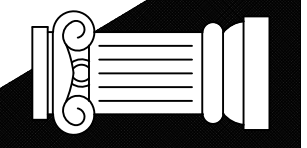


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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

FIRST FLOOR
DOMESTIC WATER, AIR, GAS PLAN

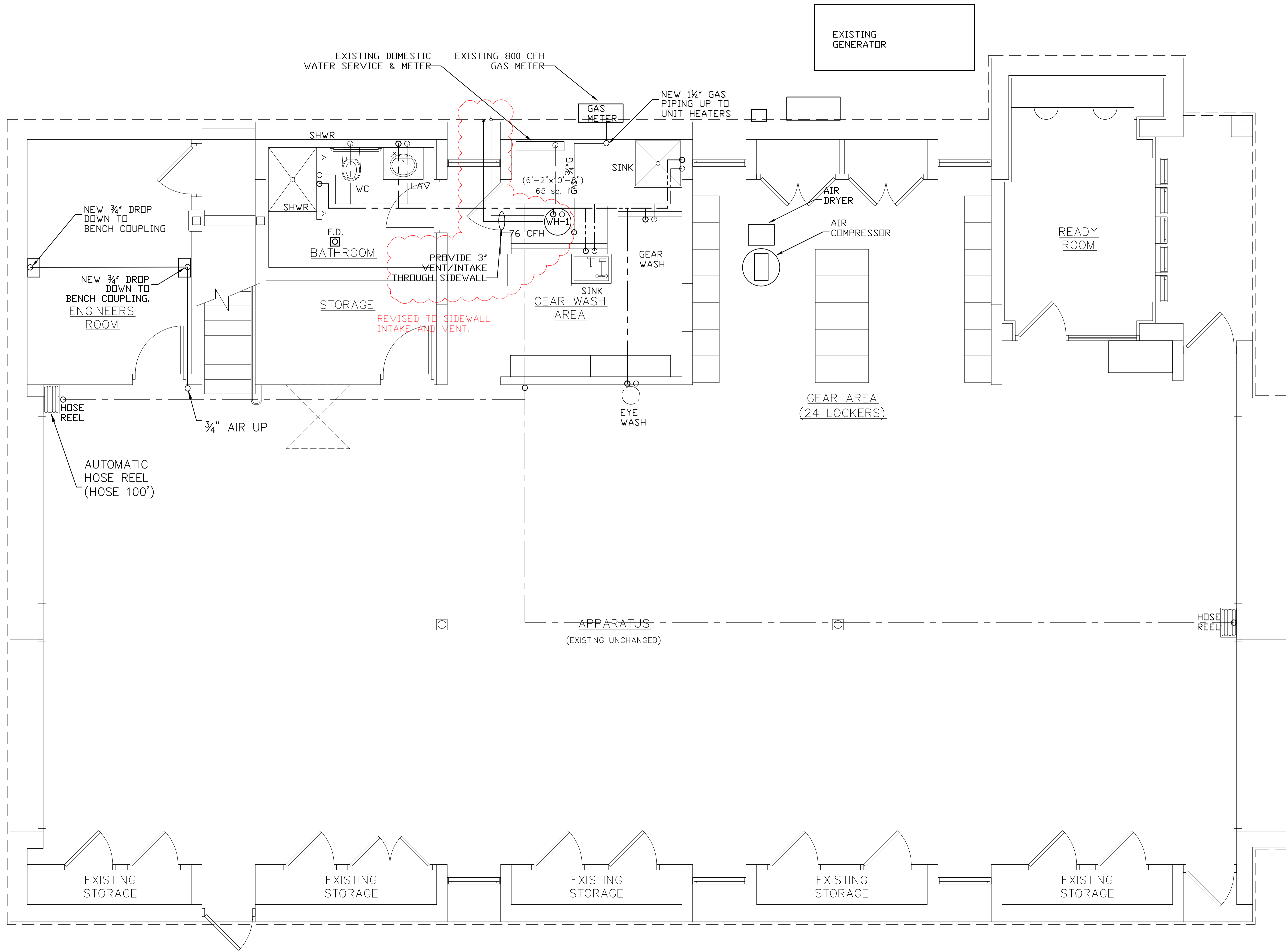
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P-3



SYMBOL LEGEND

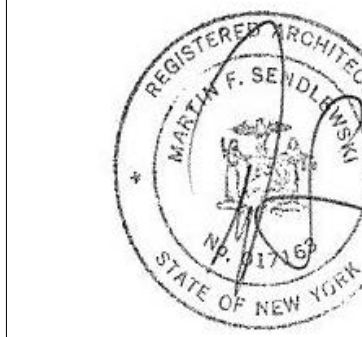
---	COLD WATER LINE	⌵	GAS VALVE & SEDIMENT TRAP
- - -	HOT WATER LINE (120°)	⌵	THERMOMETER
---	NATURAL GAS PIPING	⊠	HB HOSE BIB
α	ISOLATION VALVE	⊠	FPHW FROST PROOF WALL HYDRANT
WHA-1	WATER HAMMER ARRESTOR	⌵	BV BALANCING VALVE

- PLAN NOTES:
1. FLEXIBLE WATER CONNECTORS EXPOSED TO CONTINUOUS PRESSURE SHALL CONFORM TO ASME A112.18.6/CSA B125.6. ACCESS SHALL BE PROVIDED TO ALL FLEXIBLE CONNECTORS.
 2. PROVIDE VALVED DRAINS FOR ANY TRAPPED DOMESTIC WATER MAIN PIPING.
 3. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING IN ACCORDANCE WITH TABLE C403.1.1.3 OF THE NYSFCC.
 4. PROVIDE BRANCH ISOLATION VALVES AT MAINS.
 5. PRIOR TO ACCEPTANCE AND INITIAL OPERATION, PIPING SHALL BE VISUALLY INSPECTED AND PRESSURE TESTED IN ACCORDANCE WITH SECTION 406 OF THE NYSFCC.
 6. SEE RISER DIAGRAMS FOR PIPE SIZING NOT SHOWN ON PLAN.
 7. ALL GAS PIPING AND COLD WATER SUPPLY PIPING IS TO BE RUN WITHIN CEILING SPACE OR CONCEALED. DROPS TO EACH FIXTURE SHALL BE WITHIN WALLS OR OTHER LOCATION SO AS TO REMAIN CONCEALED.
 8. WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE PRODUCT SPECIFICATIONS.
 9. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSFCC.
 10. ALL FIXTURE WATER SUPPLY PIPES SHALL MEET THE MINIMUM SIZE REQUIREMENTS OF TABLE 604.5 OF THE NYSFCC.
 11. ALL GAS PIPING TO BE SCHEDULE 40 METALLIC PIPE.
 12. THE FLOW VELOCITY OF THE WATER DISTRIBUTION SYSTEM SHALL BE CONTROLLED TO REDUCE THE POSSIBILITY OF WATER HAMMER. A WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
 13. PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL HAVE NOT MORE THAN 8-PERCENT LEAD CONTENT.
 14. PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25 PERCENT OR LESS.
 15. WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A PRESSURE RATING OF NOT LESS THAN 100 PSI AT 180°F.
 16. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 605.5. PIPE FITTINGS UTILIZED IN WATER SUPPLY SYSTEMS SHALL ALSO COMPLY WITH NSF 61. DUCTILE AND GRAY IRON PIPE AND PIPE FITTINGS UTILIZED IN WATER SERVICE PIPING SYSTEMS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
 17. VALVES SHALL BE COMPATIBLE WITH THE TYPE OF PIPING MATERIAL INSTALLED IN THE SYSTEM. VALVES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.7 OR SHALL BE APPROVED. VALVES INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF 61.
 18. MANUFACTURED PIPE NIPPLES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.8 OF THE NYSFCC.
 19. THE FOLLOWING TYPES OF JOINTS ARE PROHIBITED: CEMENT OR CONCRETE JOINTS, JOINTS MADE WITH FITTINGS NOT APPROVED FOR THE SPECIFIC INSTALLATION, SOLVENT-CEMENT JOINTS BETWEEN DIFFERENT TYPES OF PLASTIC PIPE, AND SADDLE-TYPE FITTINGS.
 20. SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE, ON THE WATER SUPPLY PIPE TO EACH SILLCOCK, ON THE WATER SUPPLY PIPE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.
 21. FIXTURE FITTINGS, FAUCETS AND DIVERTERS SHALL BE INSTALLED AND ADJUSTED SO THAT THE FLOW OF HOT WATER FROM THE FITTINGS CORRESPONDS TO THE LEFT-HAND SIDE OF THE FIXTURE FITTING.
 22. ACCESS SHALL BE PROVIDED TO ALL FULLOPEN VALVES AND SHUTOFF VALVES.
 23. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM OF 110°F (43°C).
 24. THE DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE NYSFCC.

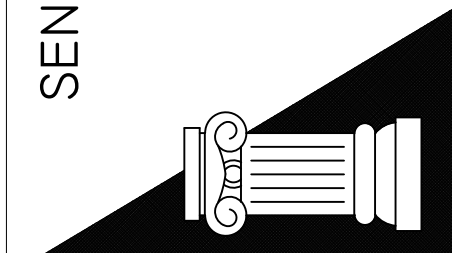
FIRST FLOOR DOMESTIC WATER, AIR, GAS PLAN

SCALE: 1/4" = 1'-0"

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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

MEZZANINE
DOMESTIC WATER, AIR, GAS PLAN

PROJECT #: 21-08

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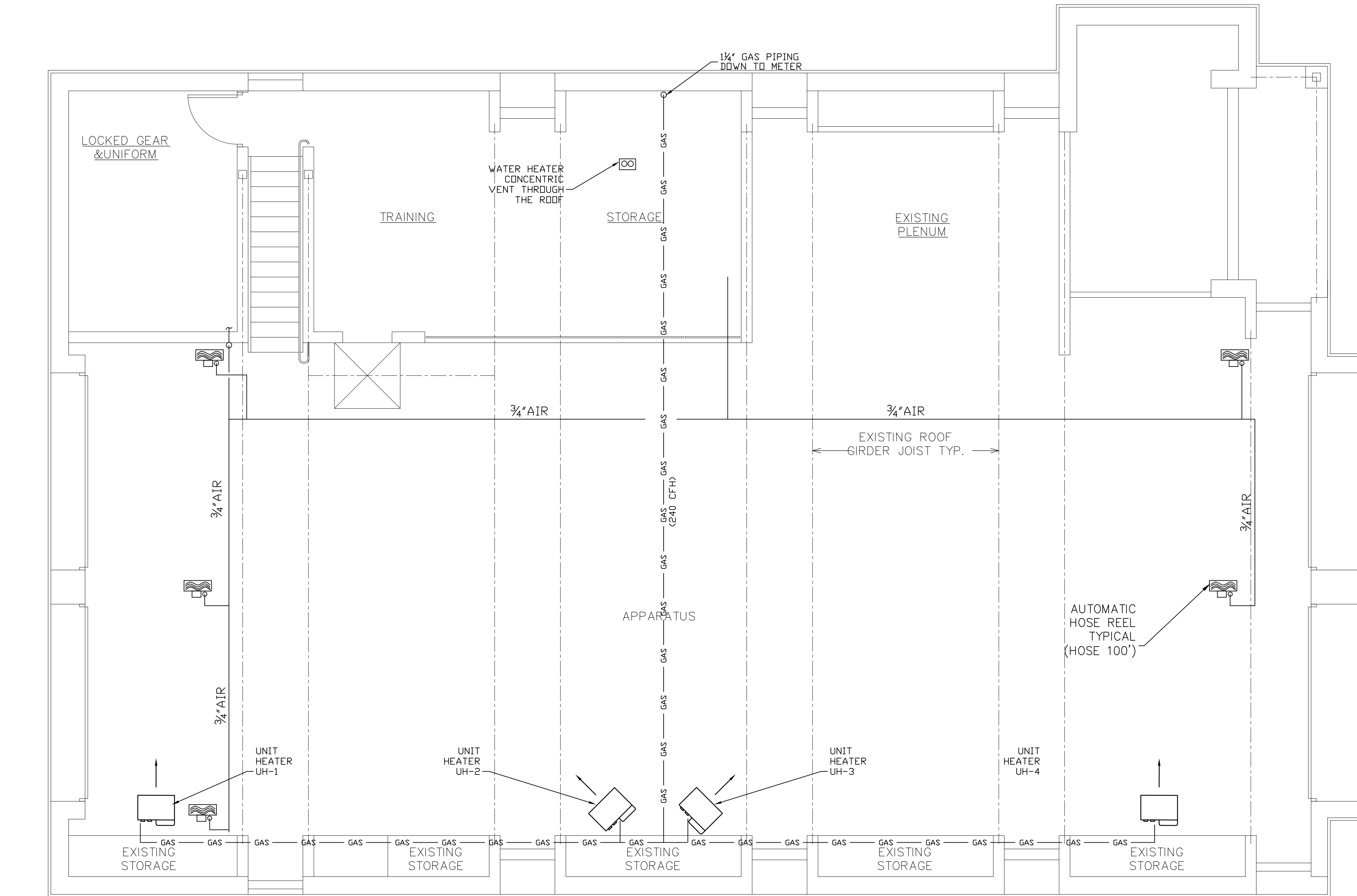
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P-4

SYMBOL LEGEND

---	COLD WATER LINE		GAS VALVE & SEDIMENT TRAP
- - -	HOT WATER LINE (120')		THERMOMETER
---	NATURAL GAS PIPING		HOSE BIB
	ISOLATION VALVE		FROST PROOF WALL HYDRANT
	WATER HAMMER ARRESTOR		BALANCING VALVE

- PLAN NOTES:
1. PROVIDE BRANCH ISOLATION VALVES AT MAINS.
 2. PRIOR TO ACCEPTANCE AND INITIAL OPERATION, PIPING SHALL BE VISUALLY INSPECTED AND PRESSURE TESTED IN ACCORDANCE WITH SECTION 406 OF THE NYSFGC.
 3. SEE RISER DIAGRAMS FOR PIPE SIZING NOT SHOWN ON PLAN.
 4. ALL GAS PIPING AND HOT/COLD WATER SUPPLY PIPING IS TO BE RUN WITHIN CEILING SPACE OR CONCEALED. DROPS TO EACH FIXTURE SHALL BE WITHIN WALLS OR OTHER LOCATION SO AS TO REMAIN CONCEALED.
 5. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSFC.
 6. ALL GAS PIPING TO BE SCHEDULE 40 METALLIC PIPE.
 7. VALVES SHALL BE COMPATIBLE WITH THE TYPE OF PIPING MATERIAL INSTALLED IN THE SYSTEM. VALVES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.7 OR SHALL BE APPROVED. VALVES INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF 61.
 8. MANUFACTURED PIPE NIPPLES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.8 OF THE NYSFC.
 9. SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE, ON THE WATER SUPPLY PIPE TO EACH SILLCOCK, ON THE WATER SUPPLY PIPE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.
 10. ACCESS SHALL BE PROVIDED TO ALL FULLOPEN VALVES AND SHUTOFF VALVES.



MEZZANINE DOMESTIC WATER, AIR, GAS PLAN

SCALE: 1/4" = 1'-0"

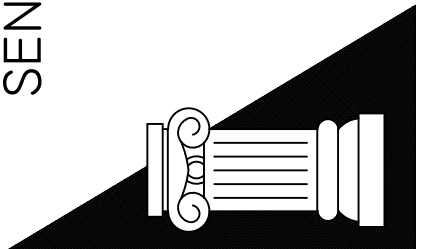
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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

FIRST FLOOR
SANITARY PLAN

PROJECT #: 21-08

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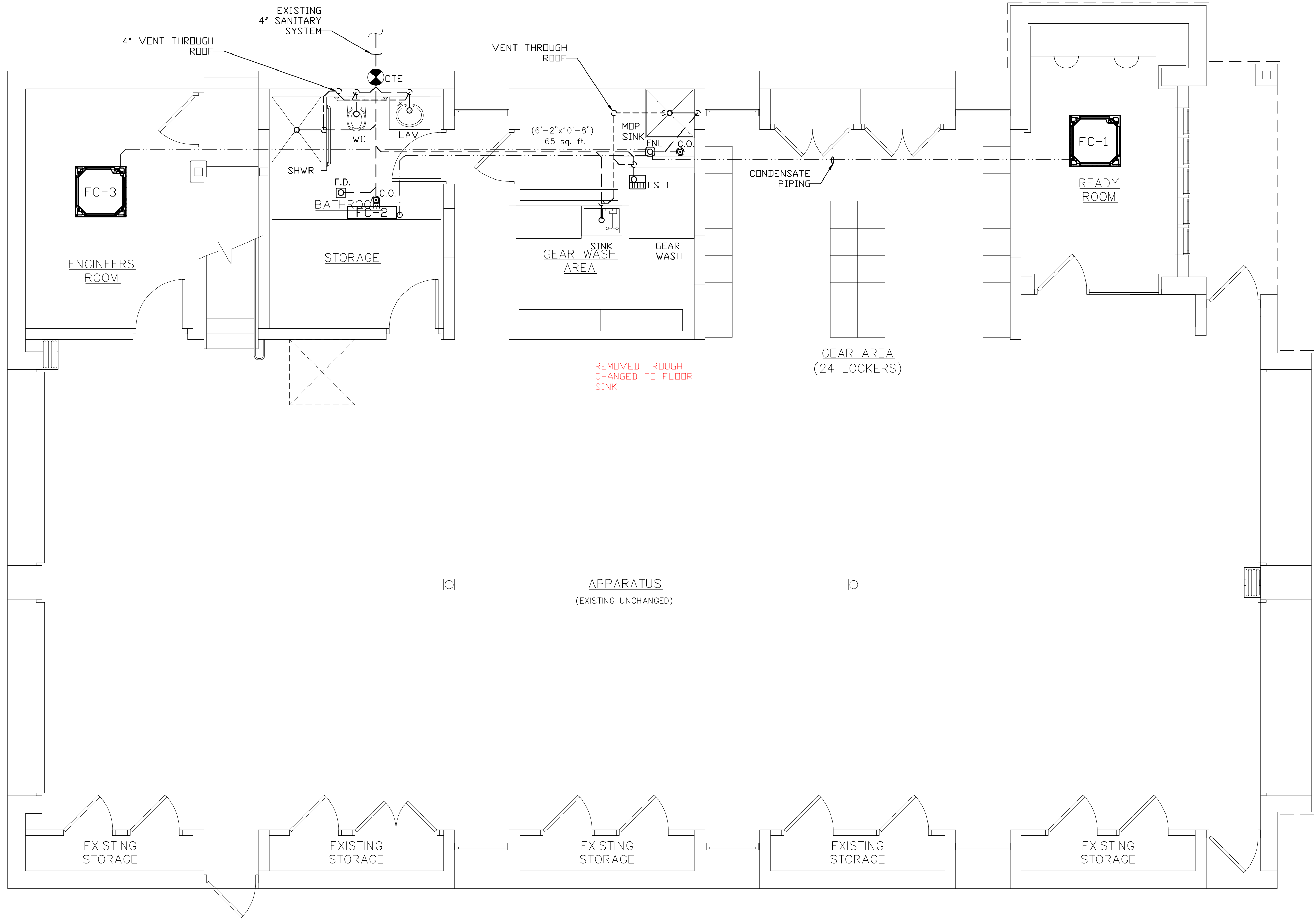
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P-5

SYMBOL LEGEND

— 4"S —	SANITARY PIPING
- - 4"S - -	SANITARY PIPING BELOW GRADE
- - - - -	SANITARY VENT PIPING
— 4"ST —	STORM PIPING
- - - - -	CONDENSATE PIPING
⊥	C.O. CLEAN OUT ABOVE GROUND
⊙	C.O. CLEAN OUT W/DECK PLATE
⊥	W.C.O. WALL CLEAN OUT
⊥	F.D. FLOOR DRAIN
⊙	FNL FUNNEL DRAIN
⊙	R.D. ROOF DRAIN
⊙	CTE CONNECT TO EXISTING

- PLAN NOTES:
- CLEANOUTS SHALL BE PROVIDED AND SIZED ACCORDING TO SECTION 708 OD THE NYSPC.
 - FIXTURE VENTING CONNECTIONS SHALL BE AS PER SECTION 905 OF THE NYSPC.
 - PROVIDE A SLEEVE FOR PIPING PROTECTION. TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
 - ALL BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
 - ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.1 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
 - CONNECT ALL EQUIPMENT AND FIXTURES AS PER THE MANUFACTURER'S REQUIREMENTS AND STATE PLUMBING CODES.
 - SEE RISER DIAGRAM FOR PIPE SIZING NOT SHOWN ON PLAN.
 - THE SANITARY DRAINAGE SYSTEM IS TO BE TESTED AS PER SECTION 701.6 OF THE NYSPC.
 - PROVIDE NEUTRALIZATION KITS FOR ALL GAS-FIRED EQUIPMENT CONDENSATE DISPOSAL.
 - ALL CONDENSATE PIPING SHALL BE FULLY INSULATED. ALL HORIZONTAL PIPING SHALL BE COPPER.
 - ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPC.
 - AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.2.1 OF THE NYSPC.
 - ALL FLOOR DRAINS AND FUNNEL DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.
 - ALL BELOW-GRADE SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.2 OF THE NYSPC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPC.
 - EXCAVATED TRENCHES SHALL BE PROVIDED WITH CONTINUOUS LOAD-BEARING SUPPORT BETWEEN JOINTS.
 - IF TRENCH BOTTOMS DO NOT FORM THE BED FOR THE PIPE, TRENCHES SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND OR FINE GRAVEL PLACED IN LAYERS NOT GREATER THAN 6 INCHES IN DEPTH AND SUCH BACKFILL SHALL BE COMPACTED AFTER EACH PLACEMENT.
 - IF ROCK IS ENCOUNTERED WHILE TRENCHING, THE ROCKS SHALL BE REMOVED TO NOT LESS THAN 3 INCHES BELOW THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE, AND SHE TRENCH SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND TAMPED IN PLACE. THE PIPE, INCLUDING THE JOINTS, SHALL NOT REST ON ROCK.
 - IF SOFT MATERIALS OF POOR LOAD BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY OVEREXCAVATING NOT LESS THAN TWO PIPE DIAMETERS AND BACKFILLING TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE.
 - IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.



FIRST FLOOR SANITARY PLAN

SCALE: 1/4" = 1'-0"

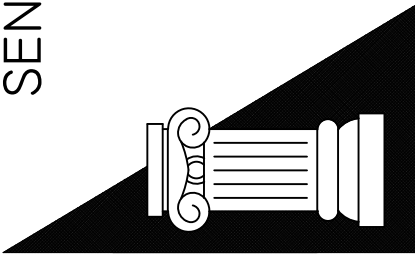
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TAPPAN FIRE DISTRICT
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TAPPAN NY, 10983

MEZZANINE SANITARY PLAN

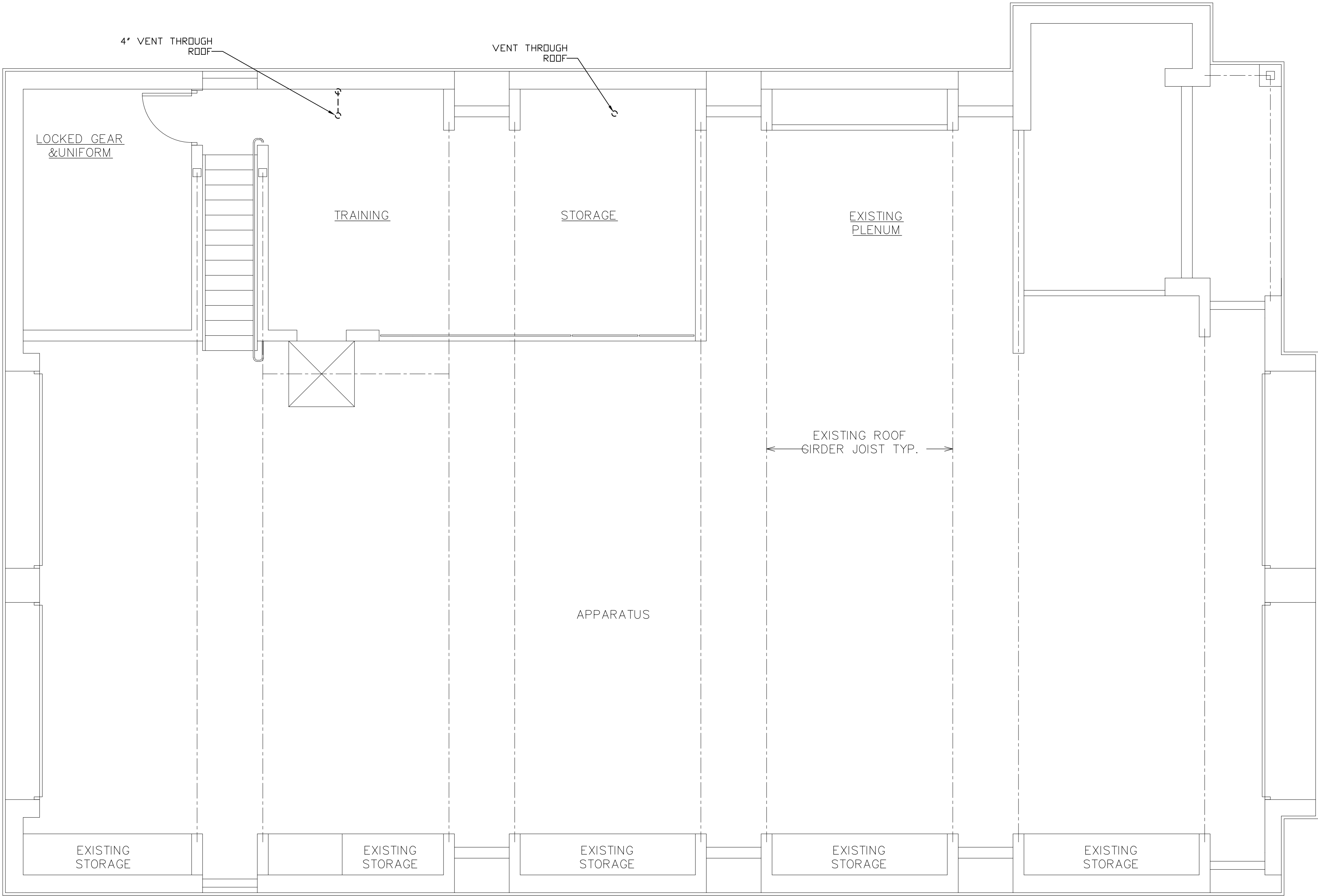
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P-6



SYMBOL LEGEND

— 4" S —	SANITARY PIPING
- - - 4" S - - -	SANITARY PIPING BELOW GRADE
· · · · ·	SANITARY VENT PIPING
— 4" ST —	STORM PIPING
— · · · ·	CONDENSATE PIPING
⊞	C.O. CLEAN OUT ABOVE GROUND
⊞	C.O. CLEAN OUT W/DECK PLATE
⊞	W.C.O. WALL CLEAN OUT
⊞	F.D. FLOOR DRAIN
⊞	FNL FUNNEL DRAIN
⊞	R.D. ROOF DRAIN

- PLAN NOTES:
- CLEANOUTS SHALL BE PROVIDED AND SIZED ACCORDING TO SECTION 708.08 OF THE NYSPLC.
 - FIXTURE VENTING CONNECTIONS SHALL BE AS PER SECTION 905 OF THE NYSPLC.
 - PROVIDE A SLEEVE FOR PIPING PROTECTION. TYPICAL OF ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALL. SEE DETAILS FOR SPECIFIC APPLICATIONS.
 - ALL BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.
 - ALL ABOVE-GROUND SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.1 OF THE NYSPLC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPLC.
 - CONNECT ALL EQUIPMENT AND FIXTURES AS PER THE MANUFACTURER'S REQUIREMENTS AND STATE PLUMBING CODES.
 - SEE RISER DIAGRAM FOR PIPE SIZING NOT SHOWN ON PLAN.
 - THE SANITARY DRAINAGE SYSTEM IS TO BE TESTED AS PER SECTION 701.6 OF THE NYSPLC.
 - PROVIDE NEUTRALIZATION KITS FOR ALL GAS-FIRED EQUIPMENT CONDENSATE DISPOSAL.
 - ALL CONDENSATE PIPING SHALL BE FULLY INSULATED.
 - ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH SECTION 308 OF THE NYSPLC.
 - AIR GAPS SHALL BE IN ACCORDANCE WITH SECTION 802.2.1 OF THE NYSPLC.
 - ALL FLOOR DRAINS AND FUNNEL DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.
 - ALL BELOW-GRADE SANITARY DRAINS AND VENT PIPES SHALL CONFORM TO THE MATERIALS IN SECTION 702.2 OF THE NYSPLC. VENT PIPING MATERIAL SHALL ALSO COMPLY WITH SECTION 902 OF THE NYSPLC.
 - EXCAVATED TRENCHES SHALL BE PROVIDED WITH CONTINUOUS LOAD-BEARING SUPPORT BETWEEN JOINTS.
 - IF TRENCH BOTTOMS DO NOT FORM THE BED FOR THE PIPE, TRENCHES SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND OR FINE GRAVEL PLACED IN LAYERS NOT GREATER THAN 6 INCHES IN DEPTH AND SUCH BACKFILL SHALL BE COMPACTED AFTER EACH PLACEMENT.
 - IF ROCK IS ENCOUNTERED WHILE TRENCHING, THE ROCKS SHALL BE REMOVED TO NOT LESS THAN 3 INCHES BELOW THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE, AND THE TRENCH SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND TAMPED IN PLACE. THE PIPE, INCLUDING THE JOINTS, SHALL NOT REST ON ROCK.
 - IF SOFT MATERIALS OF POOR LOAD BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY OVEREXCAVATING NOT LESS THAN TWO PIPE DIAMETERS AND BACKFILLING TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE.
 - IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.
 - INCLUDE NEUTRALIZATION KIT FOR WATER HEATER INSTALLATION.

MEZZANINE SANITARY PLAN

SCALE: 1/4" = 1'-0"

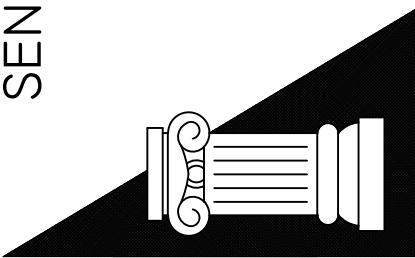
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TAPPAN NY, 10983

PLUMBING ROOF PLAN

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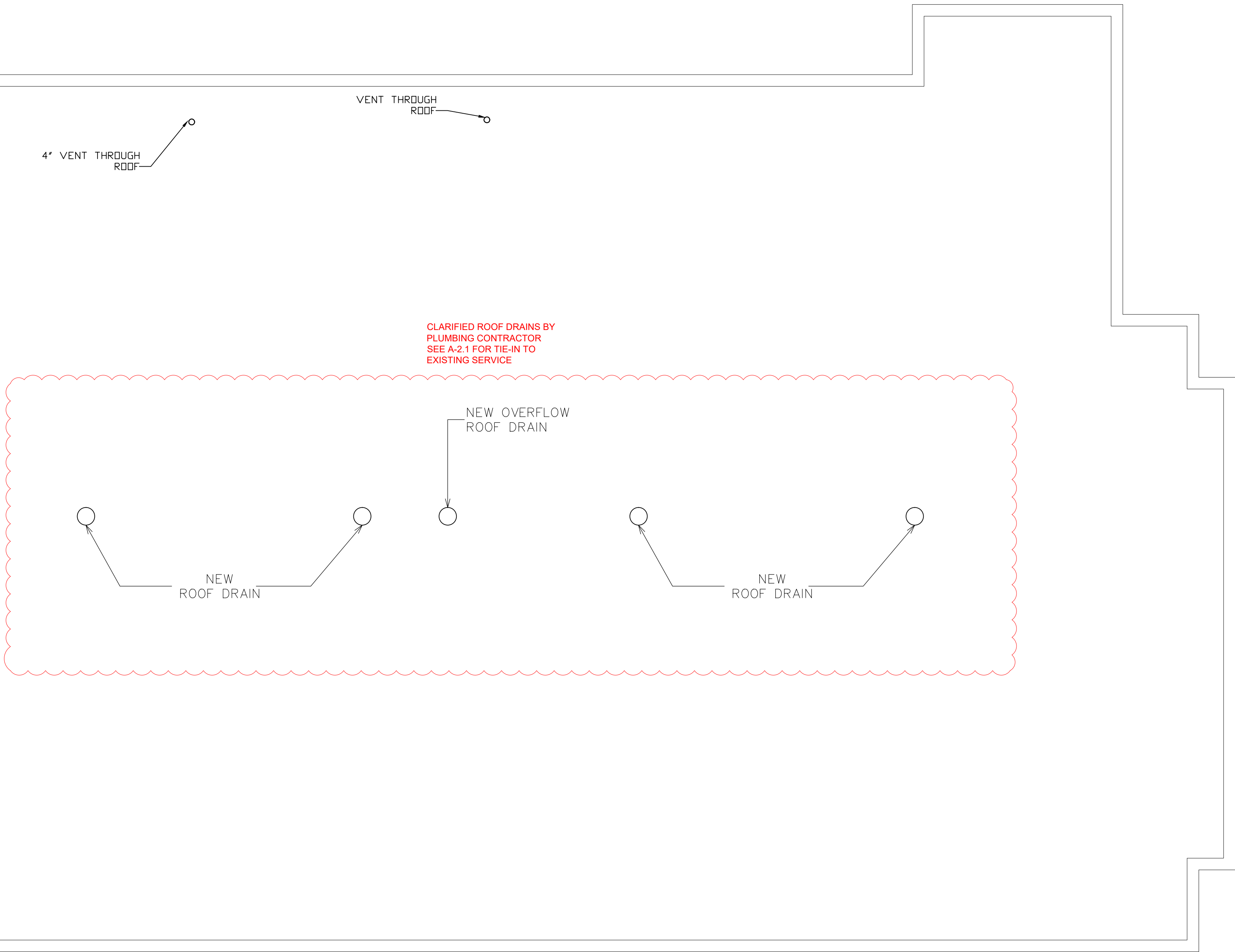
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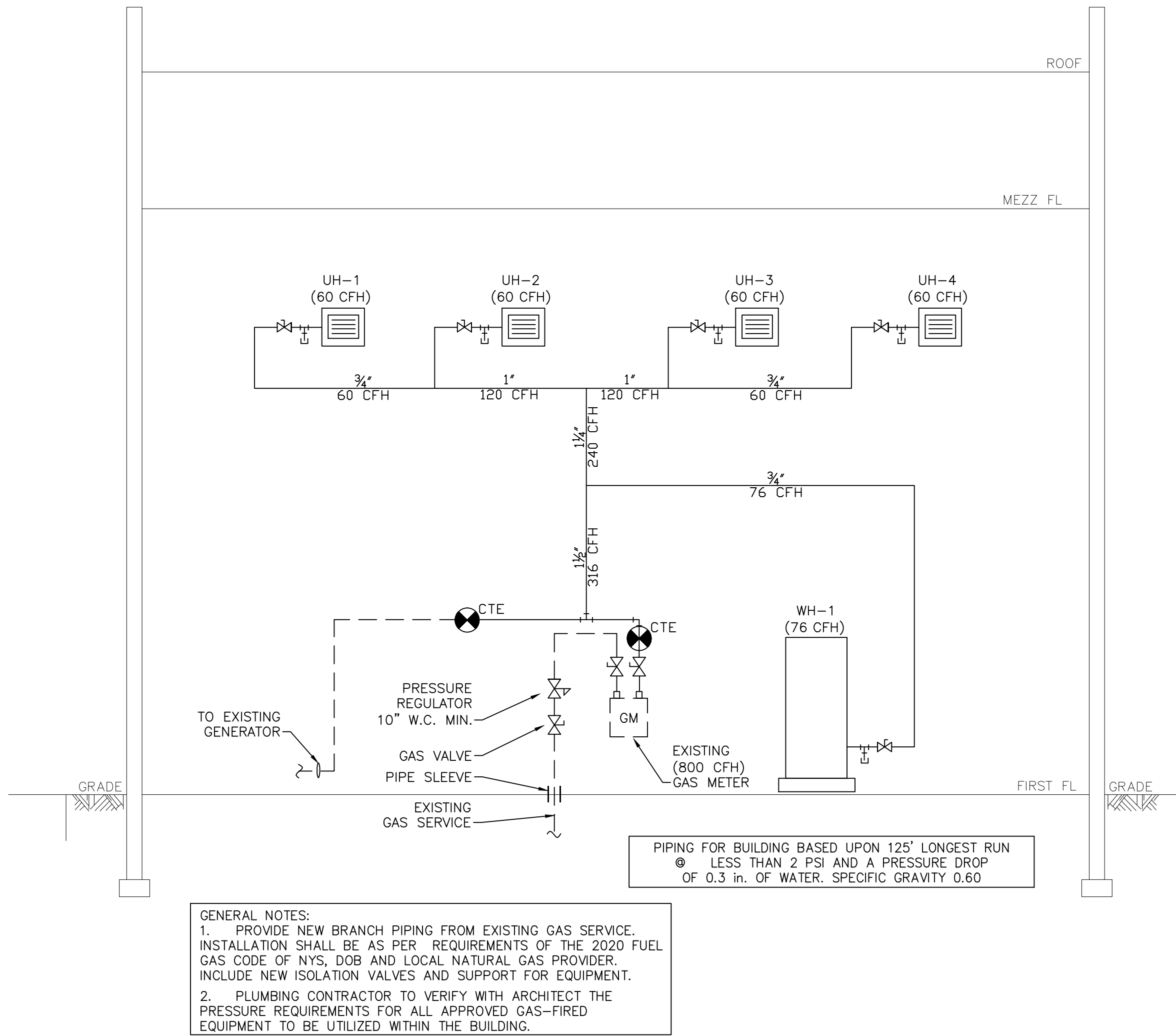
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PLUMBING ROOF PLAN

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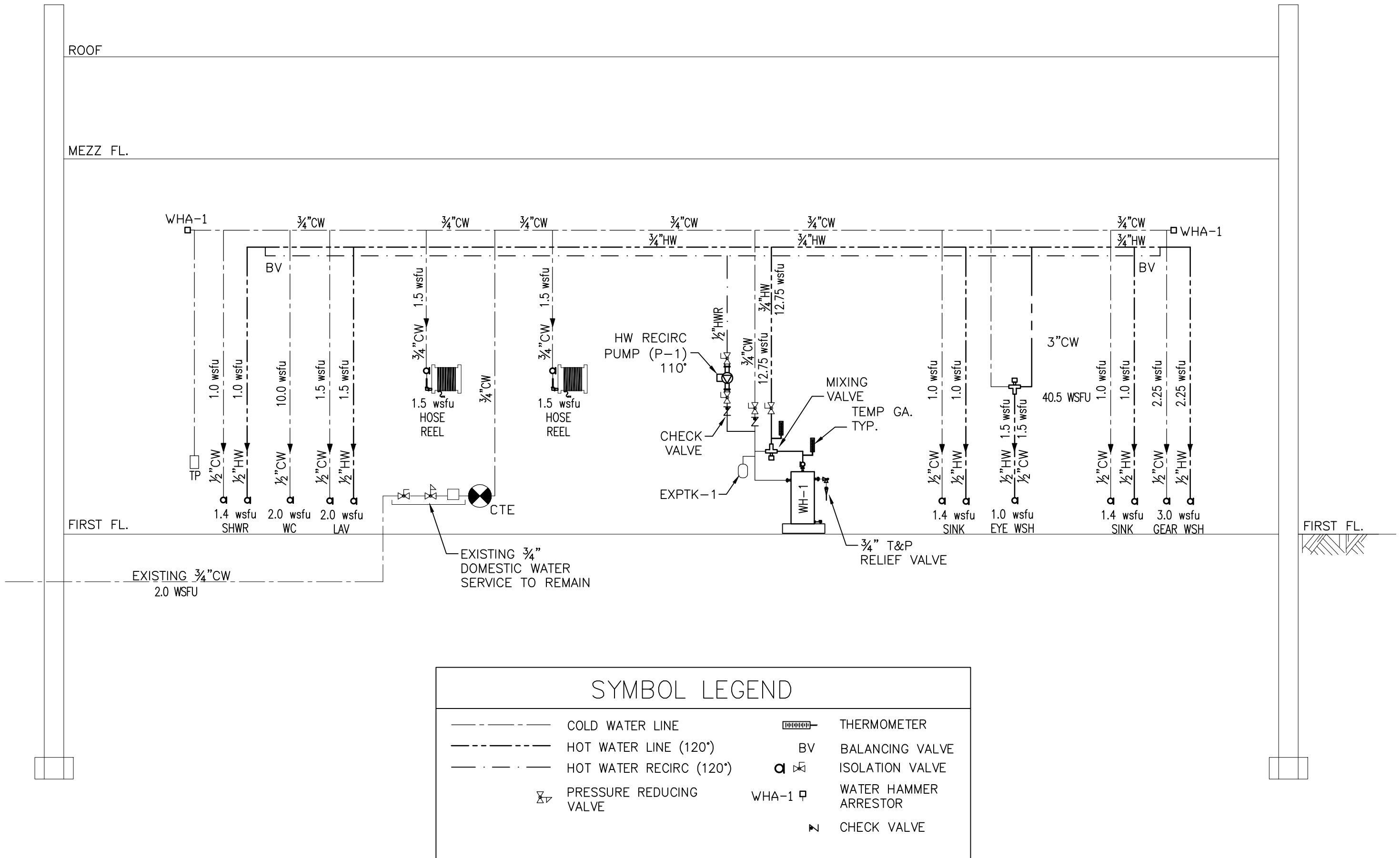
NATURAL GAS RISER DIAGRAM

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GAS PIPING NOTES:

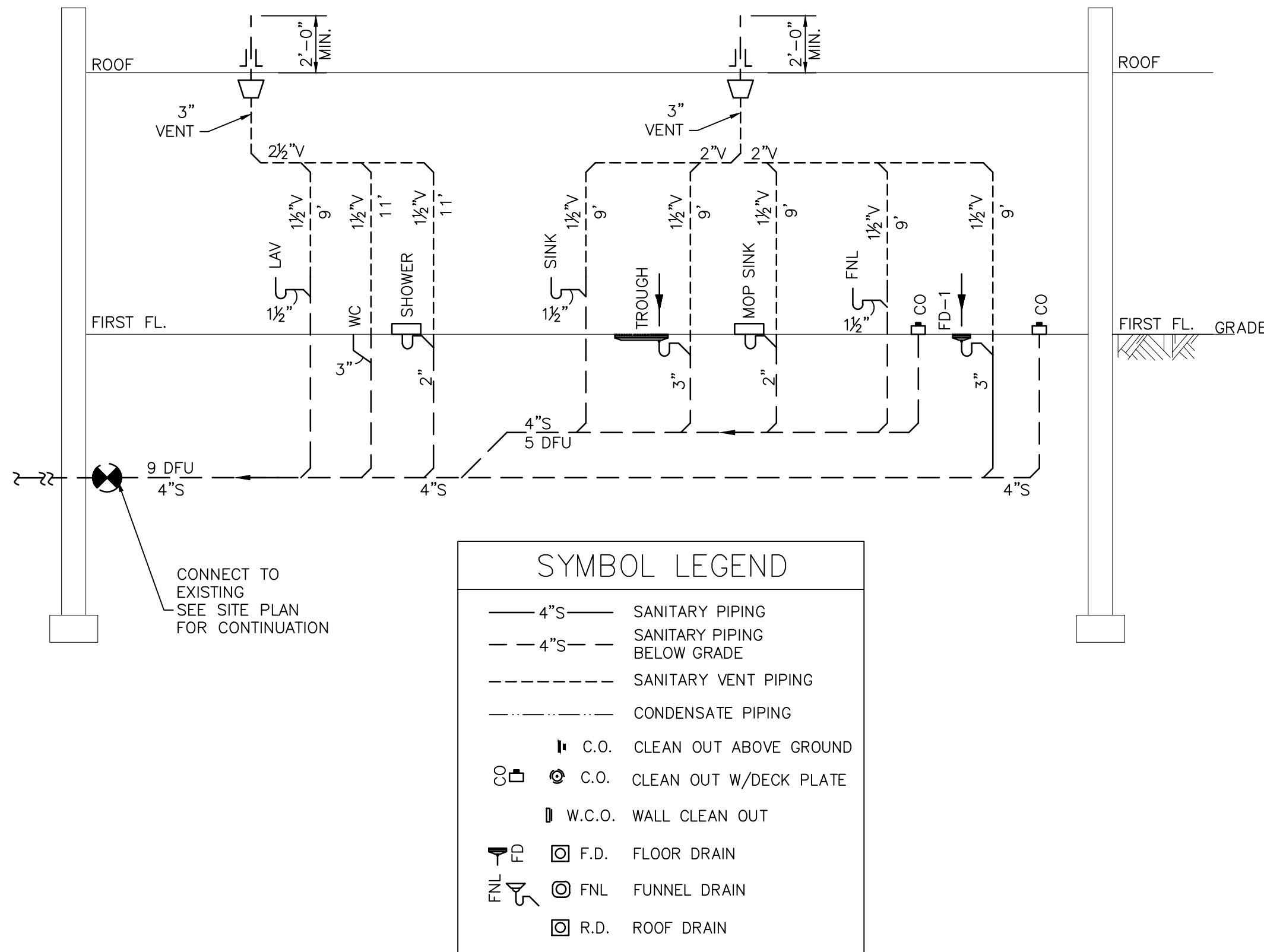
1. THE BUILDING SHALL NOT BE WEAKENED BY THE INSTALLATION OF ANY GAS PIPING. IN THE PROCESS OF INSTALLING OR REPAIRING ANY GAS PIPING, THE FINISHED FLOORS, WALLS, CEILINGS, TILE WORK OR ANY OTHER PART OF THE BUILDING OR PREMISES WHICH IS REQUIRED TO BE CHANGED OR REPLACED SHALL BE LEFT IN A SAFE STRUCTURAL CONDITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
2. PENETRATIONS OF FLOOR/CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.
3. CUTS, NOTCHES AND HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUED-LAMINATED MEMBERS AND I-JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURER'S RECOMMENDATIONS OR WHERE THE EFFECTS OF SUCH ALTERATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER BY A REGISTERED DESIGN PROFESSIONAL.
4. NOTCHING AT THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES (51 MM) OF THE TOP AND BOTTOM OF THE JOIST AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. NOTCHES IN THE TOP OR BOTTOM OF THE JOIST SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN.
5. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONLOAD-BEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION.
6. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD DEPTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE DEPTH OF THE STUD ARE PERMITTED IN NONLOAD-BEARING PARTITIONS OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH (15.9 MM) TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
7. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, DRILLED, NOTCHED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN CONCURRENCE AND APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G., HVAC EQUIPMENT, WATER HEATERS) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.
8. FLANGES AND LIPS OF LOAD-BEARING, COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE CUT OR NOTCHED. HOLES IN WEBS OF LOAD-BEARING, COLD-FORMED STEEL FRAMING MEMBERS SHALL BE PERMITTED ALONG THE CENTERLINE OF THE WEB OF THE FRAMING MEMBER AND SHALL NOT EXCEED THE DIMENSIONAL LIMITATIONS, PENETRATION SPACING OR MINIMUM HOLE EDGE DISTANCE AS PRESCRIBED BY A REGISTERED DESIGN PROFESSIONAL. CUTTING, NOTCHING AND BORING HOLES OF STEEL FLOOR/ROOF DECKING SHALL BE AS PRESCRIBED BY A REGISTERED DESIGN PROFESSIONAL.
9. FLANGES AND LIPS OF NONSTRUCTURAL COLD-FORMED STEEL WALL STUDS SHALL BE PERMITTED ALONG THE CENTERLINE OF THE WEB OF THE FRAMING MEMBER, SHALL NOT EXCEED 1 1/2 INCHES (38 MM) IN WIDTH OR 4 INCHES (102 MM) IN LENGTH, AND THE HOLES SHALL NOT BE SPACED LESS THAN 24 INCHES (610 MM) CENTER TO CENTER FROM ANOTHER HOLE OR LESS THAN 10 INCHES (254 MM) FROM THE BEARING END.
10. WHERE AN ADDITIONAL APPLIANCE IS TO BE SERVED, THE EXISTING PIPING SHALL BE CHECKED TO DETERMINE IF IT HAS ADEQUATE CAPACITY FOR ALL APPLIANCES SERVED. IF INADEQUATE, THE EXISTING SYSTEM SHALL BE ENLARGED AS REQUIRED OR SEPARATE PIPING OF ADEQUATE CAPACITY SHALL BE PROVIDED.
11. FOR OTHER THAN STEEL PIPE, EXPOSED PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET (1524 MM). THE MARKING SHALL NOT BE REQUIRED ON PIPE LOCATED IN THE SAME ROOM AS THE APPLIANCE SERVED.

12. ALL GAS PIPE MATERIAL SHALL BE SCHEDULE 40 METALLIC PIPE.
13. ALL EXTERIOR GAS PIPING SHALL BE GALVANIZED.
14. PIPE AND FITTINGS SHALL BE CLEAR AND FREE FROM CUTTING BURRS AND DEFECTS IN STRUCTURE OR THREADING, AND SHALL BE THOROUGHLY BRUSHED, AND CHIP AND SCALE BLOWN. DEFECTS IN PIPE AND FITTINGS SHALL NOT BE REPAIRED. DEFECTIVE PIPE AND FITTINGS SHALL BE REPLACED.
15. WHERE IN CONTACT WITH MATERIAL OR ATMOSPHERE EXERTING A CORROSIVE ACTION, METALLIC PIPING AND FITTINGS COATED WITH A CORROSION-RESISTANT MATERIAL SHALL BE USED. EXTERNAL COATINGS OR LININGS USED ON PIPING OR COMPONENTS SHALL NOT BE CONSIDERED AS ADDING STRENGTH.
16. PIPE WITH THREADS THAT ARE STRIPPED, CHIPPED, CORRODED OR OTHERWISE DAMAGED SHALL NOT BE USED. WHERE A WELD OPENS DURING THE OPERATION OF CUTTING OR THREADING, THAT PORTION OF THE PIPE SHALL NOT BE USED.
17. THE TYPE OF PIPING JOINT USED SHALL BE SUITABLE FOR THE PRESSURE-TEMPERATURE CONDITIONS AND SHALL BE SELECTED GIVING CONSIDERATION TO JOINT TIGHTNESS AND MECHANICAL STRENGTH UNDER THE SERVICE CONDITIONS. THE JOINT SHALL BE ABLE TO SUSTAIN THE MAXIMUM END FORCE CAUSED BY THE INTERNAL PRESSURE AND ANY ADDITIONAL FORCES CAUSED BY TEMPERATURE EXPANSION OR CONTRACTION, VIBRATION, FATIGUE OR THE WEIGHT OF THE PIPE AND ITS CONTENTS.
18. MATERIAL FOR GASKETS SHALL BE CAPABLE OF WITHSTANDING THE DESIGN TEMPERATURE AND PRESSURE OF THE PIPING SYSTEM, AND THE CHEMICAL CONSTITUENTS OF THE GAS BEING CONDUCTED, WITHOUT CHANGE TO ITS CHEMICAL AND PHYSICAL PROPERTIES. THE EFFECTS OF FIRE EXPOSURE TO THE JOINT SHALL BE CONSIDERED IN CHOOSING MATERIAL. ACCEPTABLE MATERIALS INCLUDE METAL (PLAIN OR CORRUGATED), COMPOSITION, ALUMINUM O-RINGS, SPIRAL WOUND METAL GASKETS, RUBBER-FACED PHENOLIC AND ELASTOMERIC. WHERE A FLANGED JOINT IS OPENED, THE GASKET SHALL BE REPLACED. FULL-FACE FLANGE GASKETS SHALL BE USED WITH ALL NONSTEEL FLANGES.
19. PIPING SHALL NOT BE INSTALLED IN OR THROUGH A DUCTED SUPPLY, RETURN OR EXHAUST DUCT, OR A TRASH OR CLOTHES CHUTE, CHIMNEY OR GAS VENT. VENTILATING DUCT, DUMPWATER OR ELEVATOR SHAFT. PIPING INSTALLED DOWNSTREAM OF THE POINT OF DELIVERY SHALL NOT EXTEND THROUGH ANY TOWNHOUSE UNIT OTHER THAN THE UNIT SERVED BY SUCH PIPING.
20. CONCEALED PIPING SHALL NOT BE LOCATED IN SOLID PARTITIONS AND SOLID WALLS, UNLESS INSTALLED IN A VENTILATED CHASE OR CASING.
21. UNDERGROUND PIPING, WHERE INSTALLED BELOW GRADE THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE. THE ANNULAR SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED.
22. PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3-1/2 INCHES (89 MM) ABOVE GROUND AND WHERE INSTALLED ACROSS ROOF SURFACES, SHALL BE ELEVATED NOT LESS THAN 3-1/2 INCHES (89 MM) ABOVE THE ROOF SURFACE. PIPING INSTALLED ABOVE GROUND, OUTDOORS, AND INSTALLED ACROSS THE SURFACE OF ROOFS SHALL BE SECURELY SUPPORTED AND LOCATED WHERE IT WILL BE PROTECTED FROM PHYSICAL DAMAGE. WHERE PASSING THROUGH AN OUTSIDE WALL, THE PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL. WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE SEALED.
23. METALLIC PIPE EXPOSED TO CORROSIVE ACTION, SUCH AS SOIL CONDITION OR MOISTURE, SHALL BE PROTECTED IN AN APPROVED MANNER. ZINC COATINGS (GALVANIZING) SHALL NOT BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING UNDERGROUND. FERROUS METAL EXPOSED IN EXTERIOR LOCATIONS SHALL BE PROTECTED FROM CORROSION. ZINC COATINGS (GALVANIZING) SHALL BE DEEMED ADEQUATE PROTECTION FOR GAS PIPING EXPOSED IN EXTERIOR LOCATIONS. WHERE DISSIMILAR METALS ARE JOINED UNDERGROUND, AN INSULATING COUPLING OR FITTING SHALL BE USED. PIPING SHALL NOT BE LAID IN CONTACT WITH CINDERS.
24. PRIOR TO ACCEPTANCE AND INITIAL OPERATION, ALL PIPING INSTALLATIONS SHALL BE INSPECTED AND PRESSURE TESTED TO DETERMINE THAT THE MATERIALS, DESIGN, FABRICATION, AND INSTALLATION PRACTICES COMPLY WITH THE REQUIREMENTS OF THE 2020 NYSFGC.



DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.



SANITARY RISER DIAGRAM

SCALE: N.T.S.

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PLUMBING RISER DIAGRAMS

PROJECT #: 21-08

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PLUMBING CONTRACT NOTES

1. ALL PLUMBING WORK PERFORMED AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE 2020 NYS PLUMBING CODE AND ALL OTHER LOCAL CODES HAVING JURISDICTION.
2. EQUIPMENT AND MATERIALS INSTALLED SHALL BE NEW UNLESS NOTED OTHERWISE ON DRAWINGS.
3. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND SPRINKLER CONTRACTOR IN ORDER TO AVOID ALL CONFLICTS.
4. THE PLUMBING CONTRACTOR SHALL PREPARE ALL FORMS AND DRAWINGS, PAY ALL FEES INCLUDING BUT NOT LIMITED TO THOSE REQUIRED FOR DRAWING PREPARATION, PERMITS AND APPLICATIONS TO AUTHORITIES. THE PLUMBING CONTRACTOR SHALL FILE ALL REQUIRED DRAWINGS, PLANS AND PERMITS TO OBTAIN APPROVAL. PLUMBING CONTRACTOR SHALL OBTAIN ALL WORK PERMITS AND APPROVED SIGN-OFFS AS REQUIRED TO EXECUTE THIS WORK IN A SAFE LEGAL MANNER.
5. THE PLUMBING CONTRACTOR SHALL PERFORM TESTS AND PAY ALL ASSOCIATED FEES REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION AND ARRANGE FOR ALL INSPECTIONS REQUIRED TO OBTAIN APPROVAL OF SYSTEMS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT.
6. THE PLUMBING CONTRACTOR SHALL FURNISH ALL CERTIFICATES OF INSURANCE AND ALL LICENSES AS REQUIRED BY LOCAL AUTHORITIES.
7. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT WITHOUT ANY ADDITIONAL COSTS TO OWNER WHETHER OR NOT IT IS SPECIFICALLY INDICATED IN THESE DOCUMENTS.
8. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING SIZES AND LOCATION OF CONNECTIONS BEFORE SUBMITTING A QUOTATION FOR THE WORK HEREIN.
9. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS REQUIRED TO PERFORM ALL CUTTING, TRENCHING, EXCAVATION, BACKFILLING, ETC, NECESSARY FOR THE PROPER INSTALLATION OF THE WORK OF THIS CONTRACT. THIS CONTRACTOR SHALL PERFORM ALL FINAL PATCHING TO BRING AREA OF WORK BACK TO ORIGINAL STATE UNLESS OTHERWISE NOTED.
10. ALL CONNECTIONS TO EQUIPMENT AND SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND THE MANUFACTURER'S RECOMMENDATIONS.
11. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL NEW PLUMBING FIXTURES AND EQUIPMENT TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. NO FIXTURES OR EQUIPMENT ARE TO BE INSTALLED WITHOUT ARCHITECT/ENGINEER APPROVAL.
12. THE PLUMBING CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LABOR AND MATERIALS INSTALLED UNDER THIS CONTRACT AND SHALL GUARANTEE THE WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF COMPLETION OF WORK.
13. PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ALL ROUGHING WITH THE RESPONSIBLE CONTRACTOR PRIOR TO INSTALLATIONS AND SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED. DRAWINGS DEPICT DESIGN INTENT AND SHALL NOT BE SCALED FOR DIMENSIONS.

GENERAL PLUMBING NOTES

ALL REFERENCED SECTION NUMBERS AND TABLES BELOW ARE FROM THE 2020 NYS PLUMBING CODE.

301.2 SYSTEM INSTALLATION. PLUMBING SHALL BE INSTALLED WITH DUE REGARD TO PRESERVATION OF THE STRENGTH OF STRUCTURAL MEMBERS AND PREVENTION OF DAMAGES TO WALLS AND OTHER SURFACES THROUGH FIXTURE USAGE.

301.3 CONNECTIONS TO THE SANITARY DRAINAGE SYSTEM. ALL PLUMBING FIXTURES, DRAINS, APPURTENANCES AND APPLIANCES USED TO RECEIVE OR DISCHARGE LIQUID WASTES OR SEWAGE SHALL BE DIRECTLY CONNECTED TO THE SANITARY DRAINAGE SYSTEM OF THE BUILDING OR PREMISES, IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CODE. THIS SECTION SHALL NOT BE CONSTRUED TO PREVENT THE INDIRECT WASTE SYSTEMS REQUIRED BY CHAPTER 8.

303.1 IDENTIFICATION. EACH LENGTH OF PIPE AND EACH PIPE FITTING, TRAP, FIXTURE, MATERIAL AND DEVICE UTILIZED IN A PLUMBING SYSTEM SHALL BEAR THE IDENTIFICATION OF THE MANUFACTURER AND ANY MARKINGS REQUIRED BY THE APPLICABLE REFERENCED STANDARDS.

303.2 INSTALLATION OF MATERIALS. MATERIALS USED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE STANDARDS UNDER WHICH THE MATERIALS ARE ACCEPTED AND APPROVED. IN THE ABSENCE OF SUCH INSTALLATION PROCEDURES, THE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED. WHERE THE REQUIREMENTS OF REFERENCED STANDARDS OR MANUFACTURER'S INSTALLATION INSTRUCTIONS DO NOT CONFORM TO MINIMUM PROVISIONS OF THIS CODE, THE PROVISIONS OF THIS CODE SHALL APPLY.

304.2 STRAINER PLATES. ALL STRAINER PLATES ON DRAIN INLETS SHALL BE DESIGNED AND INSTALLED SO THAT ALL OPENINGS ARE NOT GREATER THAN 0.5 INCH IN LEAST DIMENSION.

304.4 OPENINGS FOR PIPES. IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS OR CEILINGS FOR THE PASSAGE OF PIPES, THE ANNULAR SPACE BETWEEN THE PIPE AND THE SIDES OF THE OPENING SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE PIPING MATERIALS AND LOCATIONS.

305.1 CORROSION. METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL, SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. WHERE SHEATHING IS USED TO PREVENT DIRECT CONTACT, THE SHEATHING SHALL HAVE A THICKNESS OF NOT LESS THAN 0.008 INCH (8 MIL) (0.203 MM) AND THE SHEATHING SHALL BE MADE OF PLASTIC. WHERE SHEATHING PROTECTS PIPING THAT PENETRATES CONCRETE OR MASONRY WALLS OR FLOORS, THE SHEATHING SHALL BE INSTALLED IN A MANNER THAT ALLOWS MOVEMENT OF THE PIPING WITHIN THE SHEATHING.

SECTION 306.1 SUPPORT OF PIPING. BURIED PIPING SHALL BE SUPPORTED THROUGHOUT ITS ENTIRE LENGTH.

SECTIONS 306.2 THROUGH 306.4 TRENCHING, EXCAVATION AND BACKFILLING. SHALL BE IN COMPLIANCE WITH NYS PLUMBING CODE. SEE REFERENCED CODE FOR REQUIREMENTS.

308.3 MATERIALS. HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPPING MATERIAL SHALL BE OF APPROVED MATERIAL THAT WILL NOT PROMOTE GALVANIC ACTION.

308.5 INTERVAL OF SUPPORT. PIPE SHALL BE SUPPORTED IN ACCORDANCE WITH TABLE 308.5.

405.1 WATER SUPPLY PROTECTION. THE SUPPLY LINES AND FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW.

DOMESTIC HOT AND COLD WATER NOTES

605.4 WATER DISTRIBUTION PIPE. WATER DISTRIBUTION PIPING AND TUBING SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A PRESSURE RATING OF NOT LESS THAN 100 PSI AT 180° F.

TABLE 605.4
WATER DISTRIBUTION PIPE

MATERIAL	STANDARD
CHLORINATED POLYVINYL CHLORIDE (CPVC) PLASTIC PIPE	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
CHLORINATED POLYVINYL CHLORIDE/ALUMINUM/CHLORINATED POLYVINYL CHLORIDE (CPVC/AL/CPVC)	ASTM F 2855
COPPER OR COPPER-ALLOY PIPE	ASTM B 42; ASTM B 302
COPPER OR COPPER-ALLOY TUBING (TYPE K, WK, L, WL, M OR WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
CROSS-LINKED POLYETHYLENE (PEX) PLASTIC PIPE AND TUBING	ASTM F 876; ASTM F 877; CSA B137.5
CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX) PIPE	ASTM F 1281; ASTM F 2262; CSA B137.10
CROSS-LINKED POLYETHYLENE/ALUMINUM/HIGH DENSITY POLYETHYLENE (PEX-AL-HDPE)	ASTM F 1986
DUCTILE IRON WATER PIPE	AWWA C151/A21.51; AWWA C115/A21.15
GALVANIZED STEEL PIPE	ASTM A 53
POLYETHYLENE/ALUMINUM/POLYETHYLENE (PE-AL-PE) COMPOSITE PIPE	ASTM F 1282
POLYETHYLENE OF RAISED TEMPERATURE (PE-RT) PLASTIC TUBING	ASTM F 2769
POLYPROPYLENE (PP) PLASTIC PIPE OR TUBING	ASTM F 2389; CSA B137.11
STAINLESS STEEL PIPE (TYPE 304/304L)	ASTM A 312; ASTM A 778
STAINLESS STEEL PIPE (TYPE 316/316L)	ASTM A 312; ASTM A 778

605.5 FITTINGS. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 605.5. PIPE FITTINGS UTILIZED IN WATER SUPPLY SYSTEMS SHALL ALSO COMPLY WITH NSF 61. DUCTILE AND GRAY IRON PIPE AND PIPE FITTINGS UTILIZED IN WATER SERVICE PIPING SYSTEMS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104/A21.4.

605.6 FLEXIBLE WATER CONNECTORS. FLEXIBLE WATER CONNECTORS EXPOSED TO CONTINUOUS PRESSURE SHALL CONFORM TO ASME A112.18.6/CSA B129.6. ACCESS SHALL BE PROVIDED TO ALL FLEXIBLE WATER CONNECTORS.

605.7 VALVES. VALVES SHALL BE COMPATIBLE WITH THE TYPE OF PIPING MATERIAL INSTALLED IN THE SYSTEM. VALVES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.7 OR SHALL BE APPROVED. VALVES INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF 61.

606.2 LOCATION OF SHUTOFF VALVES. SHUTOFF VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

- ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE OTHER THAN BATHTUBS AND SHOWERS IN ONE- AND TWO-FAMILY RESIDENTIAL OCCUPANCIES, AND OTHER THAN IN INDIVIDUAL SLEEPING UNITS THAT ARE PROVIDED WITH SHUTOFF VALVES IN HOTELS, MOTELS, BOARDING HOUSES AND SIMILAR OCCUPANCIES.
- ON THE WATER SUPPLY TO EACH SILLCOCK.
- ON THE WATER SUPPLY TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.

607.2.2 TEMPERED WATER TEMPERATURE CONTROL. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070/ASME A112.1070/CSA B125.70 AND SHALL LIMIT THE TEMPERED WATER TO NOT GREATER THAN 110°F (43°C). THIS PROVISION SHALL NOT SUPERSEDE THE REQUIREMENT FOR PROTECTIVE SHOWER VALVES IN ACCORDANCE WITH SECTION 412.3.

607.2 HOT OR TEMPERED WATER SUPPLY TO FIXTURES. THE DEVELOPED LENGTH OF HOT OR TEMPERED WATER PIPING, FROM THE SOURCE OF HOT WATER TO THE FIXTURES THAT REQUIRE HOT OR TEMPERED WATER, SHALL NOT EXCEED 50 FEET (15 240 MM). RECIRCULATING SYSTEM PIPING AND HEAT-TRACED PIPING SHALL BE CONSIDERED TO BE SOURCES OF HOT OR TEMPERED WATER.

607.2.1 CIRCULATION SYSTEMS AND HEAT TRACE SYSTEMS FOR MAINTAINING HEATED WATER TEMPERATURE IN DISTRIBUTION SYSTEMS. FOR OTHER THAN GROUP R2, R3 AND R4 OCCUPANCIES THAT ARE THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE, THE INSTALLATION OF HEATED WATER CIRCULATION AND HEAT TRACE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.6 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

608.2 PLUMBING FIXTURES. THE SUPPLY LINES AND FITTINGS FOR PLUMBING FIXTURES SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW. PLUMBING FIXTURE FITTINGS SHALL PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1.

608.3 DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS. DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM.

501.8 TEMPERATURE CONTROLS. HOT WATER SUPPLY SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENTS FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTINGS FOR THE INTENDED TEMPERATURE OPERATING RANGE.

DOMESTIC HOT AND COLD WATER NOTES

605.3 WATER SERVICE PIPE. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.3. WATER SERVICE PIPE OR TUBING, INSTALLED UNDERGROUD AND OUTSIDE OF THE STRUCTURE, SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI (1100 KPA) AT 73.4°F (23°C). WHERE THE WATER PRESSURE EXCEEDS 160 PSI (1100 KPA), PIPING MATERIAL SHALL HAVE A WORKING PRESSURE RATING NOT LESS THAN THE HIGHEST AVAILABLE PRESSURE. WATER SERVICE PIPING MATERIALS NOT THIRD-PARTY CERTIFIED FOR WATER DISTRIBUTION SHALL TERMINATE AT OR BEFORE THE FULL OPEN VALVE LOCATED AT THE ENTRANCE TO THE STRUCTURE. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104/A21.4.

605.3.1 DUAL CHECK-VALVE-TYPE BACKFLOW PREVENTER. DUAL CHECK-VALVE BACKFLOW PREVENTERS INSTALLED ON THE WATER SUPPLY SYSTEM SHALL COMPLY WITH ASSE 1024 OR CSA B64.6.

606.6 WATER SUPPLY SYSTEM TEST. UPON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM, OR PORTION COMPLETED, SHALL BE TESTED IN ACCORDANCE WITH SECTION 312.

607.5 INSULATION OF PIPING. FOR OTHER THAN GROUP R2, R3 AND R4 OCCUPANCIES THAT ARE THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE, PIPING TO THE INLET OF A WATER HEATER AND PIPING CONVEYING WATER HEATED BY A WATER HEATER SHALL BE INSULATED IN ACCORDANCE WITH SECTION C404.4 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

608.16.4.2 HOSE CONNECTIONS, SILLCOCKS, HOSE BIBBS, WALL HYDRANTS AND OTHER OPENINGS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE OR PRESSURE-TYPE VACUUM BREAKER OR A PERMANENTLY ATTACHED HOSE CONNECTION VACUUM BREAKER.

EXCEPTION:

- THIS SECTION SHALL NOT APPLY TO WATER HEATER AND BOILER DRAIN VALVES THAT ARE PROVIDED WITH HOSE CONNECTION THREADS AND THAT ARE INTENDED ONLY FOR TANK VESSEL DRAINING.
- THIS SECTION SHALL NOT APPLY TO WATER SUPPLY VALVES INTENDED FOR CONNECTION OF CLOTHES WASHING MACHINES WHERE BACKFLOW PREVENTION IS OTHERWISE PROVIDED OR IS INTEGRAL WITH THE MACHINE.

608.14 LOCATION OF BACKFLOW PREVENTERS. ACCESS SHALL BE PROVIDED TO BACKFLOW PREVENTERS AS SPECIFIED BY THE INSTALLATION INSTRUCTIONS OF THE APPROVED MANUFACTURER.

606.1 LOCATION OF FULL-OPEN VALVES. FULL-OPEN VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

- ON THE BUILDING WATER SERVICE PIPE FROM THE PUBLIC WATER SUPPLY NEAR THE CURB.
- ON THE WATER DISTRIBUTION PIPE AT THE ENTRANCE INTO THE STRUCTURE.
- ON THE DISCHARGE SIDE OF EVERY WATER METER.
- ON THE BASE OF EVERY WATER RISER PIPE IN OCCUPANCIES OTHER THAN MULTIPLE-FAMILY RESIDENTIAL OCCUPANCIES THAT ARE TWO STORIES OR LESS IN HEIGHT AND IN ONE- AND TWO-FAMILY RESIDENTIAL OCCUPANCIES.
- ON THE TOP OF EVERY WATER DOWN-FEED PIPE IN OCCUPANCIES OTHER THAN ONE AND TWO-FAMILY RESIDENTIAL OCCUPANCIES.
- ON THE ENTRANCE TO EVERY WATER SUPPLY PIPE TO A DWELLING UNIT, EXCEPT WHERE SUPPLYING FIXTURES EQUIPPED WITH INDIVIDUAL STOPS.
- ON THE WATER SUPPLY PIPE TO AND FROM A GRAVITY OR PRESSURIZED WATER TANK.
- ON THE WATER SUPPLY PIPE TO EVERY WATER HEATER.

SANITARY DRAINAGE NOTES

AS PER PLUMBING CODE SECTION 708.1 CLEANOUTS REQUIRED, CLEANOUTS SHALL BE PROVIDED FOR DRAINAGE PIPING IN ACCORDANCE WITH SECTIONS 708.1.1 THROUGH 708.1.11. AS FOLLOWS:

708.1.1 HORIZONTAL DRAINS AND BUILDING DRAINS. HORIZONTAL DRAINAGE PIPES IN BUILDINGS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING DRAINS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM) EXCEPT WHERE MANHOLES ARE USED INSTEAD OF CLEANOUTS, THE MANHOLES SHALL BE LOCATED AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, THE END OF THE HORIZONTAL DRAIN OR THE END OF THE BUILDING DRAIN.

708.1.2 BUILDING SEWERS. BUILDING SEWERS SMALLER THAN 8 INCHES (203 MM) SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING SEWERS 8 INCHES (203 MM) AND LARGER SHALL HAVE A MANHOLE LOCATED NOT MORE THAN 200 FEET (60 960 MM) FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER AND AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, A MANHOLE OR THE END OF THE BUILDING SEWER.

708.1.3 BUILDING DRAIN AND BUILDING SEWER JUNCTION. THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER SHALL BE SERVED BY A CLEANOUT THAT IS LOCATED AT THE JUNCTION OR WITHIN 10 FEET (3048 MM) OF THE DEVELOPED LENGTH OF PIPING UPSTREAM OF THE JUNCTION. FOR THE REQUIREMENTS OF THIS SECTION, THE REMOVAL OF THE WATER CLOSET SHALL NOT BE REQUIRED TO PROVIDE CLEANOUT ACCESS.

708.1.4 CHANGES OF DIRECTION. WHERE A HORIZONTAL DRAINAGE PIPE, A BUILDING DRAIN OR A BUILDING SEWER HAS A CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES (0.79 RAD), A CLEANOUT SHALL BE INSTALLED AT THE CHANGE OF DIRECTION. WHERE MORE THAN ONE CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES (0.79 RAD) OCCURS WITHIN 40 FEET (12 192 MM) OF DEVELOPED LENGTH OF PIPING, THE CLEANOUT INSTALLED FOR THE FIRST CHANGE OF DIRECTION SHALL SERVE AS THE CLEANOUT FOR ALL CHANGES IN DIRECTION WITHIN THAT 40 FEET (12 192 MM) OF DEVELOPED LENGTH OF PIPING.

SANITARY DRAINAGE NOTES

413.1 APPROVAL, 413.2 FLOOR DRAINS & 413.3 SIZE OF FLOOR DRAINS. FLOOR DRAINS SHALL CONFORM TO ASME A112.3.1, ASME A112.6.3 OR CSA B79. TRENCH DRAINS SHALL COMPLY WITH ASME A112.6.3. FLOOR DRAINS SHALL HAVE REMOVABLE STRAINERS. THE FLOOR DRAIN SHALL BE CONSTRUCTED SO THAT THE DRAIN IS CAPABLE OF BEING CLEANED. ACCESS SHALL BE PROVIDED TO THE DRAIN INLET. READY ACCESS SHALL BE PROVIDED TO FLOOR DRAINS. FLOOR DRAINS SHALL HAVE A DRAIN OUTLET NOT LESS THAN 2 INCHES IN DIAMETER.

702.1 ABOVE-GROUND SANITARY DRAINAGE AND VENT PIPE. ABOVE-GROUND SOIL, WASTE AND VENT PIPE SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 702.1.

702.2 UNDERGROUND BUILDING SANITARY DRAINAGE AND VENT PIPE. UNDERGROUND BUILDING SANITARY DRAINAGE AND VENT PIPE SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 702.2.

702.3 BUILDING SEWER PIPE. BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 702.3

702.4 FITTINGS. PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL AND SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN TABLE 702.4.

702.7 LEAD BENDS AND TRAPS. THE WALL THICKNESS OF LEAD BENDS AND TRAPS SHALL BE NOT LESS THAN ⅝ INCH.

704.1 SLOPE OF HORIZONTAL DRAINAGE PIPING. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE SLOPE OF A HORIZONTAL DRAINAGE PIPE SHALL BE NOT LESS THAN THAT INDICATED IN TABLE 704.1 EXCEPT THAT WHERE THE DRAINAGE PIPING IS UPSTREAM OF A GREASE INTERCEPTOR, THE SLOPE OF THE PIPING SHALL BE NOT LESS THAN 1/4 INCH PER FOOT (2-PERCENT SLOPE).

TABLE 704.1
SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2½ OR LESS	⅛ α
3 TO 6	⅙ α
8 OR LARGER	⅙ α

α. Slopes for piping draining to a grease interceptor shall comply with Section 704.1.

903.1 ROOF EXTENSIONS. OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED NOT LESS THAN 18 INCHES ABOVE THE ROOF. WHERE A ROOF IS TO BE USED FOR ASSEMBLY OR AS A PROMENADE, OBSERVATION DECK, SUNBATHING DECK OR SIMILAR PURPOSES, OPEN VENT PIPES SHALL TERMINATE NOT LESS THAN 7 FEET ABOVE THE ROOF.

903.2 FROST CLOSURE. WHERE THE 97.5-PERCENT VALUE FOR OUTDOOR DESIGN TEMPERATURE IS 0°F (-18°C) OR LESS, VENT EXTENSIONS THROUGH A ROOF OR WALL SHALL BE NOT LESS THAN 3 INCHES (76 MM) IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE NOT LESS THAN 1 FOOT (305 MM) INSIDE THE THERMAL ENVELOPE OF THE BUILDING.

903.3 FLASHINGS. THE JUNCTURE OF EACH VENT PIPE WITH THE ROOF LINE SHALL BE MADE WATER TIGHT BY AN APPROVED FLASHING.

903.4 PROHIBITED USE. A VENT TERMINAL SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN A VENT TERMINAL.

903.5 LOCATION OF VENT TERMINAL. AN OPEN VENT TERMINAL FROM A DRAINAGE SYSTEM SHALL NOT BE LOCATED DIRECTLY BENEATH ANY DOOR, OPENABLE WINDOW, OR OTHER AIR INTAKE OPENING OF THE BUILDING OR OF AN ADJACENT BUILDING, AND ANY SUCH VENT TERMINAL SHALL NOT BE WITHIN 10 FEET HORIZONTALLY OF SUCH AN OPENING UNLESS IT IS 3 FEET OR MORE ABOVE THE TOP OF SUCH OPENING.

802.3 INSTALLATION. INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR. WASTE RECEPTORS SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. INDIRECT WASTE PIPING THAT EXCEEDS 30 INCHES (762 MM) IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 54 INCHES (1372 MM) IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED.

EXCEPTION: WHERE A WASTE RECEPTOR RECEIVES ONLY CLEARWATER WASTE AND DOES NOT DIRECTLY CONNECT TO A SANITARY DRAINAGE SYSTEM, THE RECEPTOR SHALL NOT REQUIRE A TRAP.

802.3.1 AIR GAP. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL NOT BE LESS THAN TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

802.3.2 AIR BREAK. AN AIR BREAK SHALL BE PROVIDED BETWEEN THE INDIRECT WASTE PIPE AND THE TRAP SEAL OF THE WASTE RECEPTOR.

802.4 WASTE RECEPTORS. FOR OTHER THAN HUB DRAINS THAT RECEIVE ONLY CLEAR-WATER WASTE AND STANDPIPES, A REMOVABLE STRAINER OR BASKET SHALL COVER THE OUTLET OF WASTE RECEPTORS. WASTE RECEPTORS SHALL NOT BE INSTALLED IN CONCEALED SPACES. WASTE RECEPTORS SHALL NOT BE INSTALLED IN PLENUMS, CRAWL SPACES, ATTICS, INTERSTITIAL SPACES ABOVE CEILINGS AND BELOW FLOORS. READY ACCESS SHALL BE PROVIDED TO WASTE RECEPTORS.

802.4.2 HUB DRAINS. A HUB DRAIN SHALL BE IN THE FORM OF A HUB OR A PIPE EXTENDING NOT LESS THAN 1 INCH ABOVE A WATER-IMPERVIOUS FLOOR.

802.4.3 STANDPIPES. STANDPIPES SHALL BE INDIVIDUALLY TRAPPED. STANDPIPES SHALL EXTEND NOT LESS THAN 18 INCHES BUT NOT GREATER THAN 42 INCHES ABOVE THE TRAP WEIR. ACCESS SHALL BE PROVIDED TO STANDPIPES AND DRAINS FOR RODDING.

DATE: ISSUE

7.18.22 FOR BID



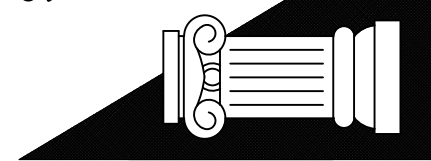
SEAL:



SENDEWSKI ARCHITECTS PC
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9 SELENA COURT
WALDEN, NY 12586
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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

PLUMBING NOTES

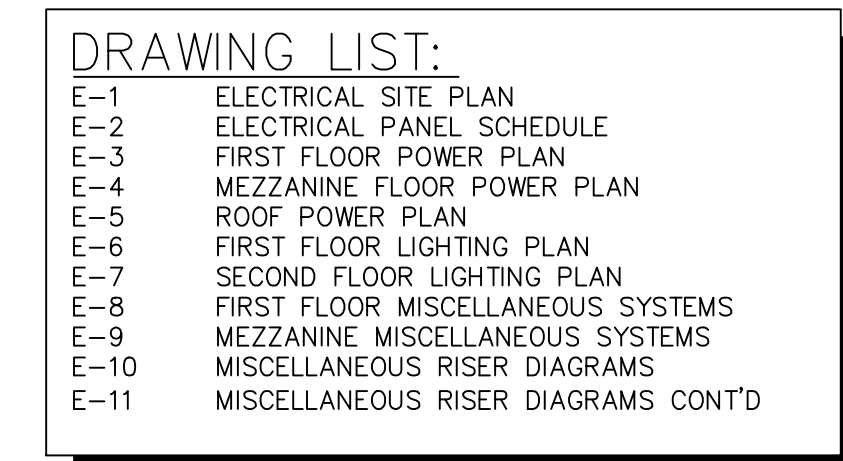
PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P-/BID

DRAWING#:

P-10



THIS INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 70, NYS ENERGY CONSERVATION CODE, NYS BUILDING CODE AND ANY OTHER JURISDICTION HAVING AUTHORITY. ELECTRICIAN SHALL SECURE ALL PERMITS, CERTIFICATES, LICENSES, ETC. AND PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF ELECTRICAL ITEMS AS INDICATED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- APPLY FOR AND OBTAIN ELECTRICAL PERMITS AS REQUIRED FOR THE PROJECT.
- RECONNECT ALL EXISTING TO REMAIN FEEDERS AND BRANCH CIRCUITS.
- REPLACE THE EXISTING SERVICE RATED MDP WITH A NEW 200A/3PH 60 CIRCUIT MDP WITH SERVICE RATED MAIN BREAKER.
- PROVIDE AND INSTALL ALL RACEWAYS, PANEL BOARD, WIRING, JUNCTION BOXES, DISCONNECTS, ETC.
- PROVIDE AND INSTALL ALL FIXTURES, LAMPS, CIRCUITS AND CONDUITS.
- PROVIDE AND INSTALL WALL SWITCHES, RECEPTACLES, LIGHTING CONTROLS, TIME CLOCKS, INTERIOR, EXTERIOR AND SITE LIGHTING.
- PROVIDE ALL PRIMARY POWER WIRING IN CONDUIT FOR MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, FIRE ALARM, FIRE SPRINKLER AND CONTROLS. COORDINATE WITH TRADE CONTRACTORS.
- PROVIDE CONTROL WIRING CONDUIT FOR MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT AND CONTROLS. COORDINATE WITH TRADE CONTRACTORS.
- PROVIDE AND INSTALL ALL INDICATED MISCELLANEOUS SYSTEMS AS SPECIFIED WHICH INCLUDES ALL WIRING AND TERMINATION DEVICE OR FIXTURE.

NEW UNDERGROUND TO
UTILITY DESIGNATED POLE.
(4) 500MCM+(1)#2G-4"C

SERVICE SCOPE CLARIFIED

ELECTRICAL SITE PLAN

F-1

DATE: 7.18.22
ISSUE FOR BID



SEAL:



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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

ELECTRICAL PANEL SCHEDULES

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

E-2

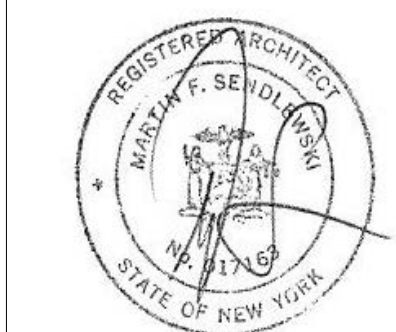
REVISED SCHEDULE ADDED VF-1 & 2 TO MDP.

SCHEDULE FOR: PANEL MDP														
Voltage: 208 / 120 V			MLO		X Equip. Ground Bus			Poles: 42			Min CB IC: 65,000 AIC			
Main Bus: 400 A			X MCB 400 A		Isol. Ground Bus			Recessed			Comments:			
Ckt #	Serves	Load VA	Breaker P	Minimum Branch Trip	Phase A	Phase B	Phase C	Minimum Branch Circuit	Breaker Trip	Load VA	Serves	Ckt #		
1	PP-3	9860	3	125	4#350,#350G, 3-1/2" C	29020		4#3/0,#4G,2" C	200	3	19160	PP1	2	
3	PAVILION	9450				26804					17354		4	
5		8012					20413				12401		6	
7	VF-1	1296	3	15	4#12,#12G,3/4" C	13304		4#3/0,#4G,2" C	100	3	12008	PP2	8	
9		1296				13304					12008		10	
11		1296					13304				12008		12	
13	VF-2	1296	3	15	4#12,#12G,3/4" C	1796		3#12,#12G,3/4" C	20	1	500	FIRE ALARM PANEL	14	
15		1296				1296							16	
17		1296					1296						18	
19					0								20	
21						0							22	
23							0						24	
25					0								26	
27						0							28	
29							0						30	
31					0								32	
33						0							34	
35							0						36	
37					0			3#12,#12G,3/4" C	20	3		SURGE PROTECTOR	38	
39							0						40	
41							0						42	
Total Connected Load (VA)					120537	44120	41404	35013	VA per phase					
						367.7	345.0	291.8	Amps per phase		335	Total Connected Load (Amps)		

SCHEDULE FOR: PANEL PP1														
Voltage: 208 / 120 V			MLO		X Equip. Ground Bus		Poles: 60		Min CB IC: 65,000 AIC					
Main Bus: 225 A			X MCB 200 A		Isol. Ground Bus		Mtg: RECESSED		Comments:					
Ckt #	Serves	Load VA	Breaker	Minimum Branch	Phase			Minimum Branch	Breaker	Load VA	Serves	Ckt #		
			P Trip	Trip	A	B	C	Circuit	Trip	P				
1	AIR COMPRESSOR	1296	3	30	#8,#10G,1" C	4364		#8,#10G,1-1/4" C	40	2	3068	HEAT PUMP	2	
3		1296				4364					3068	HP-1	4	
5		1296					2496	#12,#12G,3/4" C	20	1	1200	COMP AIR DRYER	6	
7	HRV	2059	2	25	#12,#12G,3/4" C	4555		#10,#10G,1" C	25	2	2496	HEAT PUMP	8	
9	HEATER	2059				4555					2496	HP-2	10	
11	removed EF-2	0					750	#12,#12G,3/4" C	15	1	750	HOSE REELS	12	
13	HRV-1	640	1	15	#12,#12G,3/4" C	1390		#12,#12G,3/4" C	15	1	750	HOSE REELS	14	
15	UNIT HEATER UH-1,2	874	1	15	#12,#12G,3/4" C		1624	#12,#12G,3/4" C	15	1	750	HOSE REELS	16	
17	UNIT HEATER UH-3,4	874	1	15	#12,#12G,3/4" C			1624	#12,#12G,3/4" C	15	1	750	HOSE REELS	18
19	WH-1	1000	1	20	#12,#12G,3/4" C	1750		#12,#12G,3/4" C	15	1	750	HOSE REELS	20	
21	RED ALERT	100	1	15	#12,#12G,3/4" C		1300	#12,#12G,3/4" C	15	1	1200	GEAR DRYER	22	
23	CO/NO2 CONTROLLER	500	1	15	#12,#12G,3/4" C			1700	#12,#12G,3/4" C	15	1	1200	GEAR DRYER	24
25	HOSE REEL	750	1	15	#12,#12G,3/4" C	1711		#12,#12G,3/4" C	20	3	961	GEAR WASHER	26	
27	HOSE REEL	750	1	15	#12,#12G,3/4" C		1711				961		28	
29	GARAGE DOOR	750	2	15	#12,#12G,3/4" C			1711			961		30	
31		750				1250		#12,#12G,3/4" C	15	1	500	LOCKER POWER	32	
33	GARAGE DOOR	750	2	15	#12,#12G,3/4" C		1250	#12,#12G,3/4" C	15	1	500	LOCKER POWER	34	
35		750						1110	#12,#12G,3/4" C	20	1	360	DISPATCH REC	36
37	GARAGE DOOR	750	2	15	#12,#12G,3/4" C	1110		#12,#12G,3/4" C	20	1	360	DISPATCH REC	38	
39		750					1110	#12,#12G,3/4" C	20	1	360	APP BAY REC	40	
41	GARAGE DOOR	750	2	15	#12,#12G,3/4" C		1650	#12,#12G,3/4" C	20	1	900	LTG	42	
43		750				1650		#12,#12G,3/4" C	20	1	900	LTG	44	
45	REC	360	1	20	#12,#12G,3/4" C		1260	#12,#12G,3/4" C	20	1	900	EXT LTG	46	
47	REC	360	1	20	#12,#12G,3/4" C			1360	#12,#12G,3/4" C	20	1	1000	BAY LTG	48
49	REC	180	1	20	#12,#12G,3/4" C	1380		#12,#12G,3/4" C	20	1	1200	HAND DRYER	50	
51	REC	180	1	20	#12,#12G,3/4" C		180						52	
53								0					54	
55						0							56	
57							0						58	
59								0					60	
Total Connected Load (VA)					48915	19160	17354	12401	VA per phase					
						159.7	144.6	103.3	Amps per phase		136	Total Connected Load (Amps)		



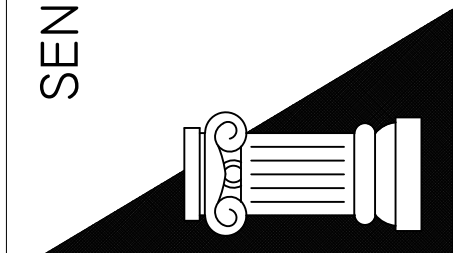
SEAL:



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TAPPAN FIRE DISTRICT
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TAPPAN NY, 10983

FIRST FLOOR
POWER PLAN

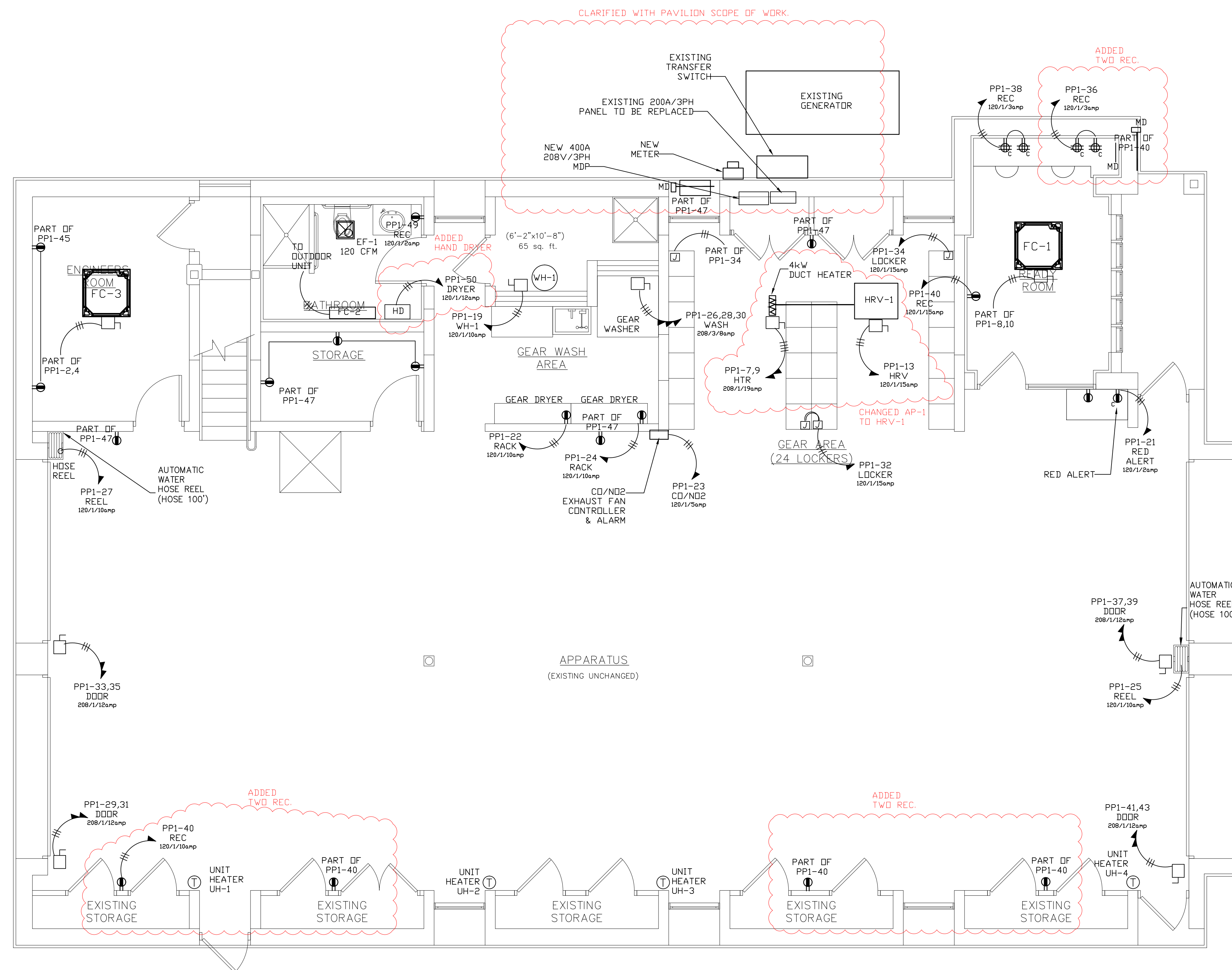
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

F-3



SYMBOL LIST	
SYMBOL	DESCRIPTION
	SINGLE POLE LIGHT SWITCH (LOW VOLTAGE) α = INDICATES LIGHTS CONTROLLED (MOUNTED AT 48" TO TOP OF SWITCH UNLESS OTHERWISE NOTED)
	DUPLEX RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED) • DUPLEX RECEPTACLE EQUIPPED WITH USB CHARGING PORT,
	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUNDING TYPE (COMPUTER TYPE)
	QUAD RECEPTACLE GROUNDING TYPE, (MOUNTED (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED)
	DUPLEX RECEPTACLE (GROUND FAULT INTERUPTER TYPE) c = DENOTES COUNTER HEIGHT (VERIFY HEIGHT WITH ARCHITECT.)
	HOMERUN TO DESIGNATED PANEL OR BOARD SLASHES INDICATE NUMBER OF WIRES FOR EACH CIRCUIT. ARROWS INDICATE NUMBER OF CIRCUITS.
	DISCONNECT SWITCH FUSED (SIZE AS INDICATED)
	JUNCTION BOX (SIZE AS REQUIRED)
HD	ELECTRIC HAND DRYER EXCELEATOR TYPE # H-1927W SUPPLIED AND INSTALLED BY ELECTRICAL CNTR.

PLAN NOTES:

1. REMOVE EXISTING POWER PANELS FROM MAIN SERVICE AND ALL ASSOCIATED WIRING AND CONDUIT. PROVIDE NEW POWER PANEL AND REFEED EXISTING CIRCUITS AND SUB PANELS TO REMAIN.
2. NEW FEEDERS FOR ALL EQUIPMENT SHALL BE IN CONDUIT.
3. ALL RECEPTACLES SHALL BE GFI. ALL WIRING SHALL BE IN CONDUIT.
4. BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.
5. VERIFY RECEPTACLE LOCATIONS, TYPES AND HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
7. CONNECTIONS TO ALL EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
8. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. ELECTRICIAN SHALL VERIFY CIRCUIT LOADS OF LIGHTING FIXTURES, POWER AND EQUIPMENT BEFORE CONNECTING NEW CIRCUITS TO NEW PANELS.
9. ELECTRICIAN SHALL BE RESPONSIBLE FOR BALANCING EGGS.
10. ALL EQUIPMENT POWER AND CONTROL WIRING SHALL BE IN METAL CONDUIT.

1. PROVIDE CONNECTION OF POWER FOR LOCKERS TO LOCKER POWER STRIPS.
2. PROVIDE HAND DRYER XLERATOR MODEL NUMBER XL-BW-110.
3. EXISTING RECEPTACLES BETWEEN OVERHEAD DOORS TO REMAIN.
4. RECONNECT ALL EXISTING TO REMAIN BRANCH CIRCUITS AND FEEDERS.

ADDED
NOTES

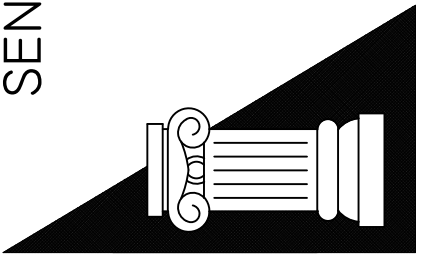
FIRST FLOOR POWER PLAN

SCALE: 1/4" = 1'-0"

SEAL:



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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
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MEZZANINE POWER PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P: /BID

DRAWING#:

E-4

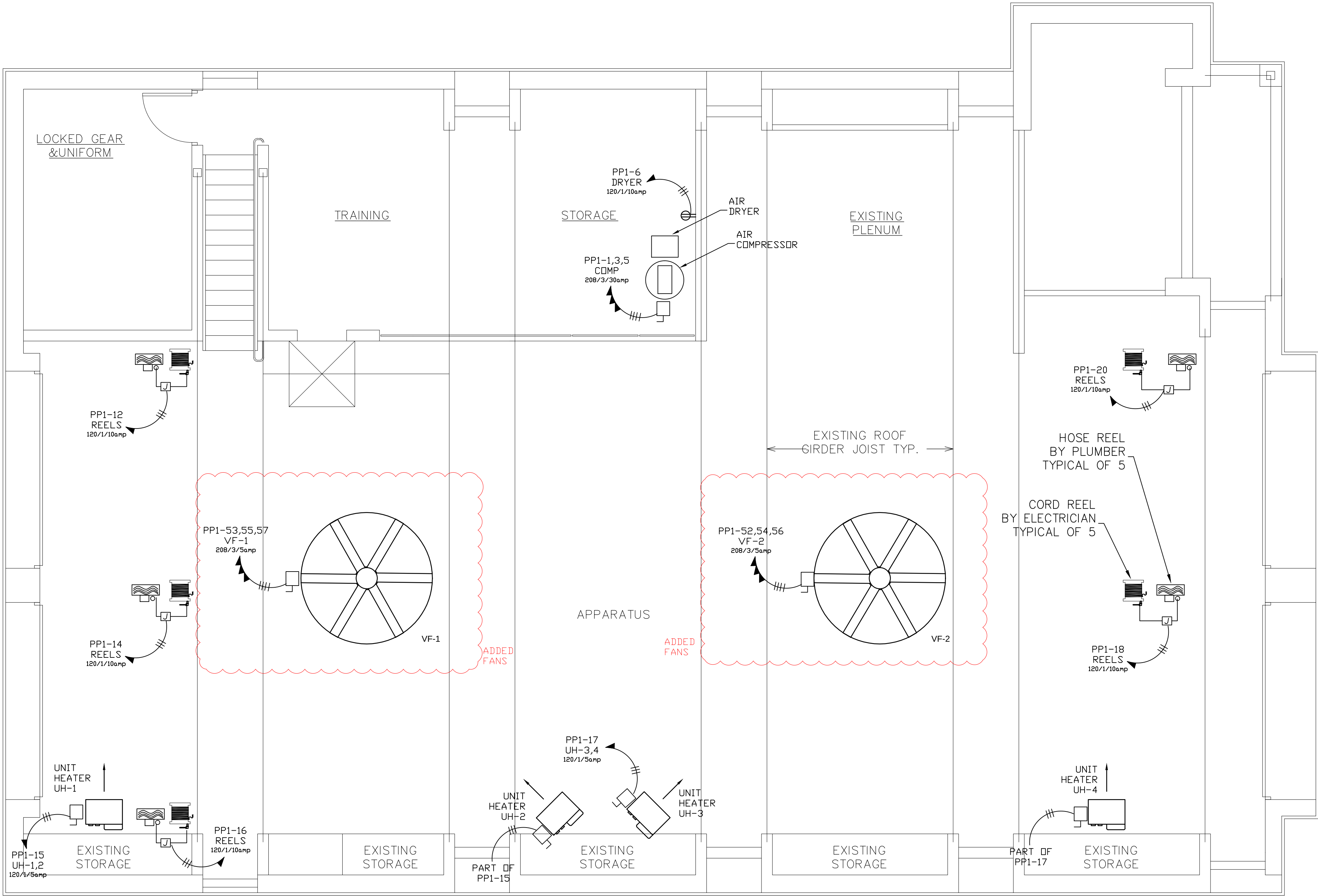
SYMBOL LIST	
SYMBOL	DESCRIPTION
S a	SINGLE POLE LIGHT SWITCH (LOW VOLTAGE) a = INDICATES LIGHTS CONTROLLED (MOUNTED AT 48" TO TOP OF SWITCH UNLESS OTHERWISE NOTED)
•	DUPLEX RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED) • DUPLEX RECEPTACLE EQUIPTED WITH USB CHARGING PORT,
⬮	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUNDING TYPE (COMPUTER TYPE)
⬮	QUAD RECEPTACLE GROUNDING TYPE, (MOUNTED (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED)
⬮	DUPLEX RECEPTACLE (GROUND FAULT INTERUPTER TYPE) c = DENOTES COUNTER HEIGHT (VERIFY HEIGHT WITH ARCHITECT.)
⤵	HOMERUN TO DESIGNATED PANEL OR BOARD SLASHES INDICATE NUMBER OF WIRES FOR EACH CIRCUIT. ARROWS INDICATE NUMBER OF CIRCUITS.
⬮	DISCONNECT SWITCH FUSED (SIZE AS INDICATED)
Ⓢ	JUNCTION BOX (SIZE AS REQUIRED)
HD	ELECTRIC HAND DRYER EXCELERATOR TYPE # H-1927W SUPPLIED AND INSTALLED BY ELECTRICAL CNTR.

PLAN NOTES:
1. REMOVE EXISTING POWER PANELS, MAIN SERVICE, TRANSFER SWITCH
AND ALL ASSOCIATED WIRING AND CONDUIT. PROVIDE NEW POWER PANEL
AND REFEED EXISTING CIRCUITS TO REMAIN.
2. NEW ELECTRIC SERVICE AND FEEDERS FOR ALL EQUIPMENT IN THE
ELECTRICAL ROOM, SHALL BE IN CONDUIT AND SHALL BE RUN UNDER
THE SLAB.
3. ALL CELLAR RECEPTACLES SHALL BE GFI. ALL WIRING SHALL BE IN
CONDUIT.
4. BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTING.
FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.
5. VERIFY RECEPTACLE LOCATIONS, TYPES AND HEIGHTS WITH
ARCHITECT PRIOR TO INSTALLATION.
6. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE
UNLESS OTHERWISE NOTED.
7. CONNECTIONS TO ALL EQUIPMENT SHALL BE AS PER THE
MANUFACTURER'S INSTALLATION MANUAL.
8. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. ELECTRICIAN
SHALL VERIFY CIRCUIT LOADS OF LIGHTING FIXTURES, POWER AND
EQUIPMENT BEFORE CONNECTING NEW CIRCUITS TO NEW PANELS.
ELECTRICIAN SHALL BE RESPONSIBLE FOR BALANCING LEGS.
9. ALL EQUIPMENT POWER AND CONTROL WIRING SHALL BE IN METAL
CONDUIT.

PROVIDE CONNECTION OF ALL AIR, ELEC, AND WATER HOSE REELS. FOR
A TOTAL OF 12 REELS.

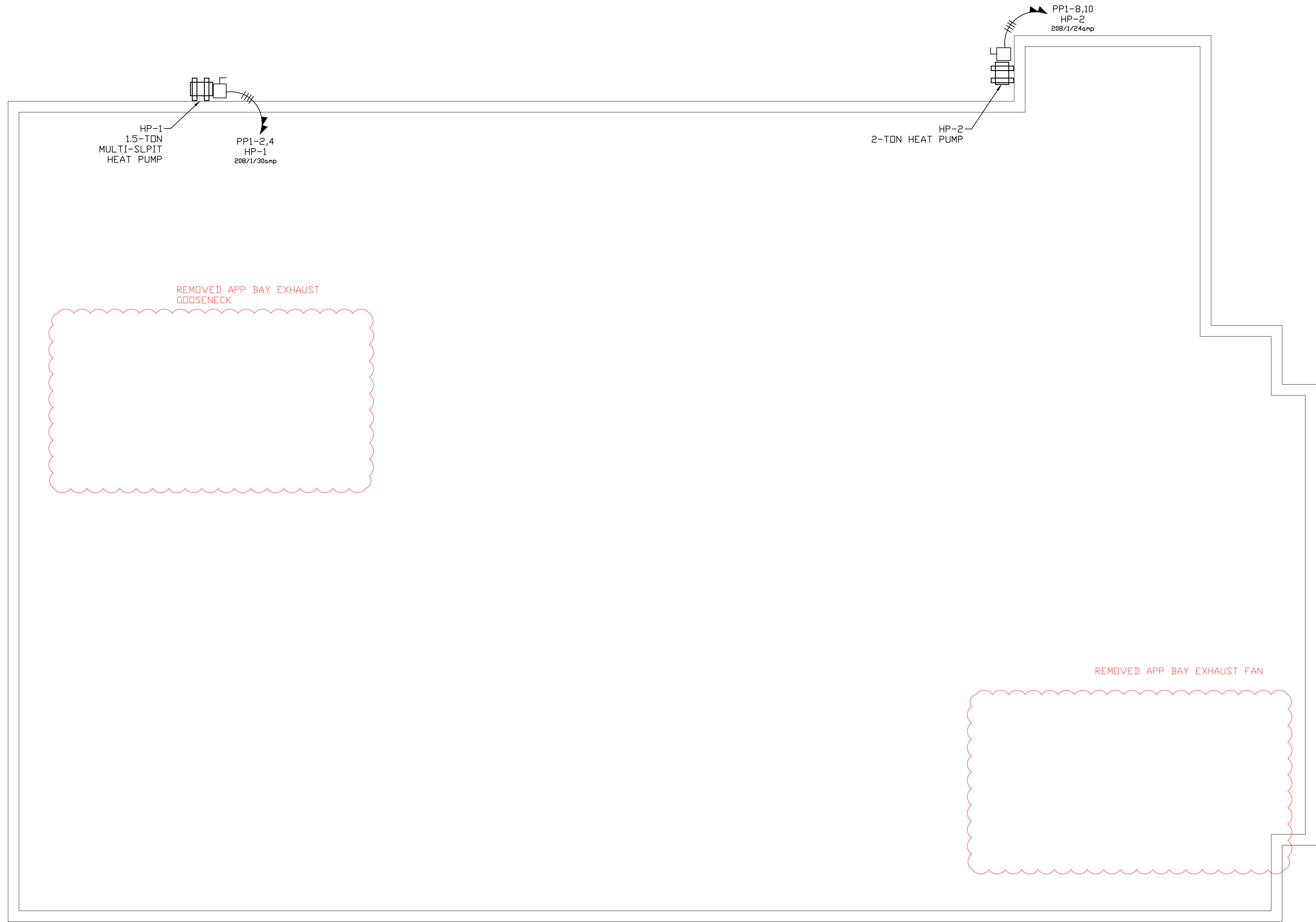
HR - 1 CEILING MOUNTED CORD REELS
DESCRIPTION: HEAVY DUTY REEL WITH INDUSTRIAL DUTY CHANNEL FRAME CONSTRUCTION.
CHAIN AND SPROCKET DRIVE POWERED BY 1/2 HP 115V ELECTRIC MOTOR
& OPTIONAL CHAIN CLUTCH REDUCTION UNIT, AND AUXILIARY CRANK
REWIND. 1/2" NPT BRONZE INLET & OUTLET. REEL SHALL BE CAPABLE OF
HANDLING 100' OF HOSE. HANNAY MODEL NO. ECR1614-17-18 OR EQUAL.
CONTROLLER SHALL BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.
WIRED BY ELECTRICAL CONTRACTOR.

CORD 100' OF 10/3 CORD WITH THREE END TERMINAL



MEZZANINE POWER PLAN

SCALE: 1/4" = 1'-0"

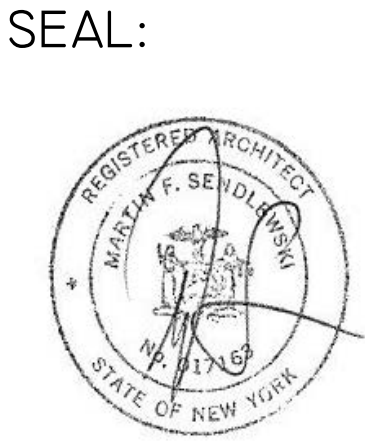


SYMBOL LIST	
SYMBOL	DESCRIPTION
S a	SINGLE POLE LIGHT SWITCH a = INDICATES LIGHTS CONTROLLED (MOUNTED AT 48" TO TOP OF SWITCH UNLESS OTHERWISE NOTED)
S 3	THREE WAY SWITCH a = INDICATES LIGHTS CONTROLLED (MOUNTED AT 48" TO TOP OF SWITCH UNLESS OTHERWISE NOTED)
• ⚡	DUPLEX RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED) • DUPLEX RECEPTACLE EQUIPTED WITH USB CHARGING PORT,
⚡	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUNDING TYPE (COMPUTER TYPE)
⚡	QUAD RECEPTACLE GROUNDING TYPE, (MOUNTED AT 24" TO TOP OF RECP. UNLESS OTHERWISE NOTED)
⚡	DUPLEX RECEPTACLE (GROUND FAULT INTERRUPTER TYPE) c = DENOTES COUNTER HEIGHT (VERIFY HEIGHT WITH ARCHITECT.)
⤴ ⚡	HOMERUN TO DESIGNATED PANEL OR BOARD SLASHES INDICATE NUMBER OF WIRES FOR EACH CIRCUIT. ARROWS INDICATE NUMBER OF CIRCUITS.
⏏	DISCONNECT SWITCH FUSED (SIZE AS INDICATED)
Ⓜ	JUNCTION BOX (SIZE AS REQUIRED)
SWT	WIND-UP TIMER SWITCH
⏏	COMBO STARTER DISC SW.
[ST]	HORSEPOWER RATED SWITCH
HD	ELECTRIC HAND DRYER EXCELERATOR TYPE # H-1927W SUPPLIED AND INSTALLED BY ELECTRICAL CNTR.

PLAN NOTES:
1. REMOVE EXISTING POWER PANELS, MAIN SERVICE, TRANSFER SWITCH AND ALL ASSOCIATED WIRING AND CONDUIT. PROVIDE NEW POWER PANEL AND REFEED EXISTING CIRCUITS TO REMAIN.
2. NEW ELECTRIC SERVICE AND FEEDERS FOR ALL EQUIPMENT IN THE ELECTRICAL RDM, SHALL BE IN CONDUIT AND SHALL BE RUN UNDER THE SLAB.
3. ALL CELLAR RECEPTACLES SHALL BE GFI. ALL WIRING SHALL BE IN CONDUIT.
4. BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.
5. VERIFY RECEPTACLE LOCATIONS, TYPES AND HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
6. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
7. CONNECTIONS TO ALL EQUIPMENT SHALL BE AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
8. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. ELECTRICIAN SHALL VERIFY CIRCUIT LOADS OF LIGHTING FIXTURES, POWER AND EQUIPMENT BEFORE CONNECTING NEW CIRCUITS TO NEW PANELS. ELECTRICIAN SHALL BE RESPONSIBLE FOR BALANCING LEGS.
9. ALL EQUIPMENT POWER AND CONTROL WIRING SHALL BE IN METAL CONDUIT.

ROOF POWER PLAN
SCALE: 1/4" = 1'-0"

DATE: 7.18.22
ISSUE FOR BID
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ROOF POWER PLAN

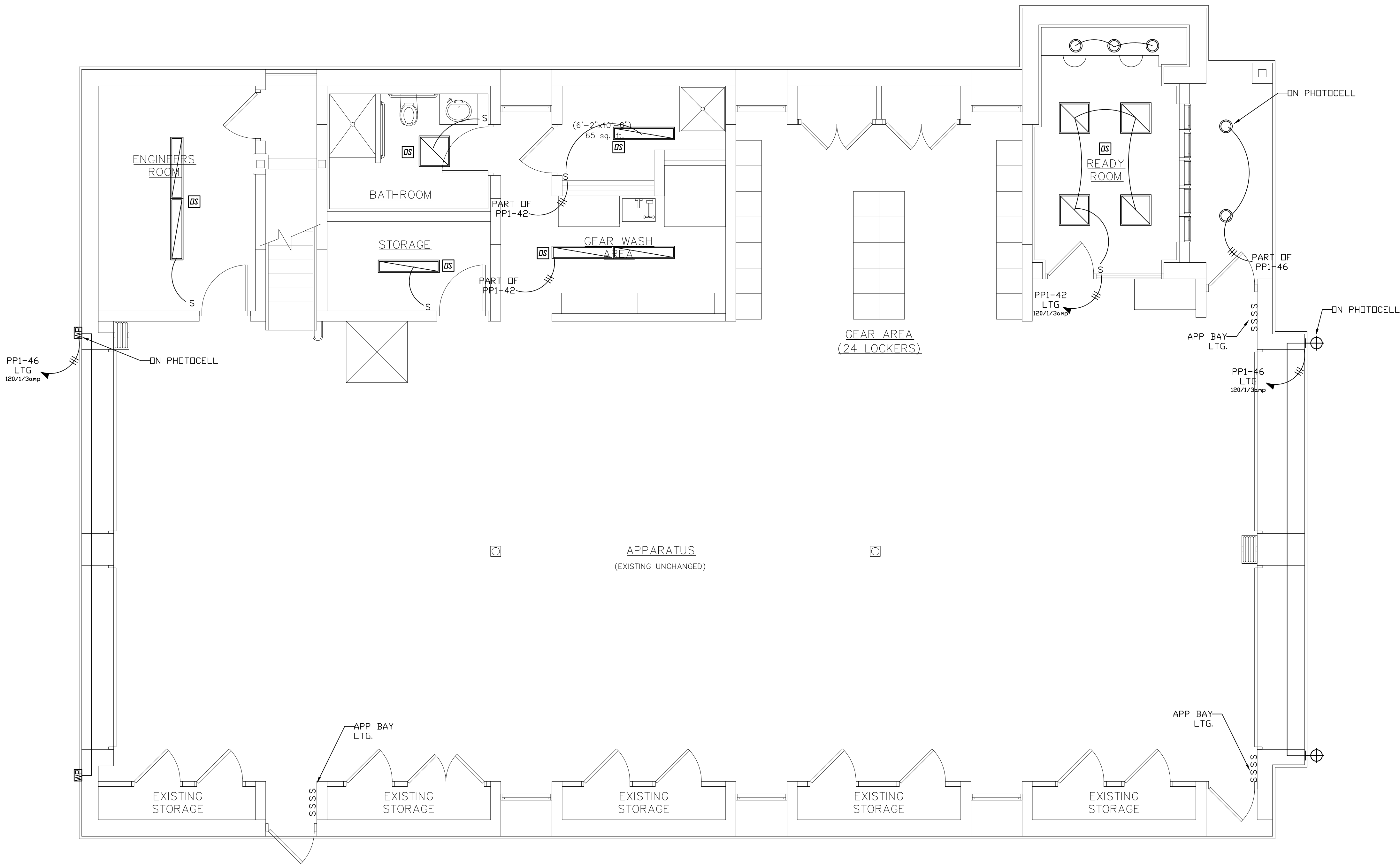
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

E-5



- GENERAL NOTES:
1. WHERE EXPOSED, ALL WIRING SHALL BE IN CONDUIT.
 2. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
 3. VERIFY ALL FINAL SWITCH LOCATIONS & TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
 4. VERIFY FIXTURE TYPES WITH ARCHITECT PRIOR TO INSTALLATION. CONNECTIONS SHALL BE AS PER MANUFACTURERS REQUIREMENTS.
 5. LED STRIP LIGHTING SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
 6. ALL BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.

FIRST FLOOR LIGHTING PLAN

SCALE: 1/4" = 1'-0"

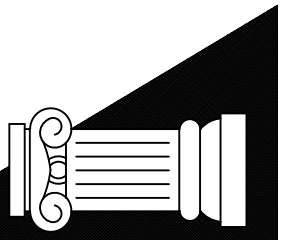
DATE: 7.18.22
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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

FIRST FLOOR
LIGHTING PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P: /BID

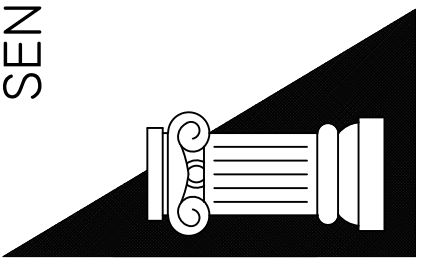
DRAWING#:

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TAPPAN FIRE DISTRICT
300 WESTERN HWY S,
TAPPAN NY, 10983

MEZZANINE
LIGHTING PLAN

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

E-7

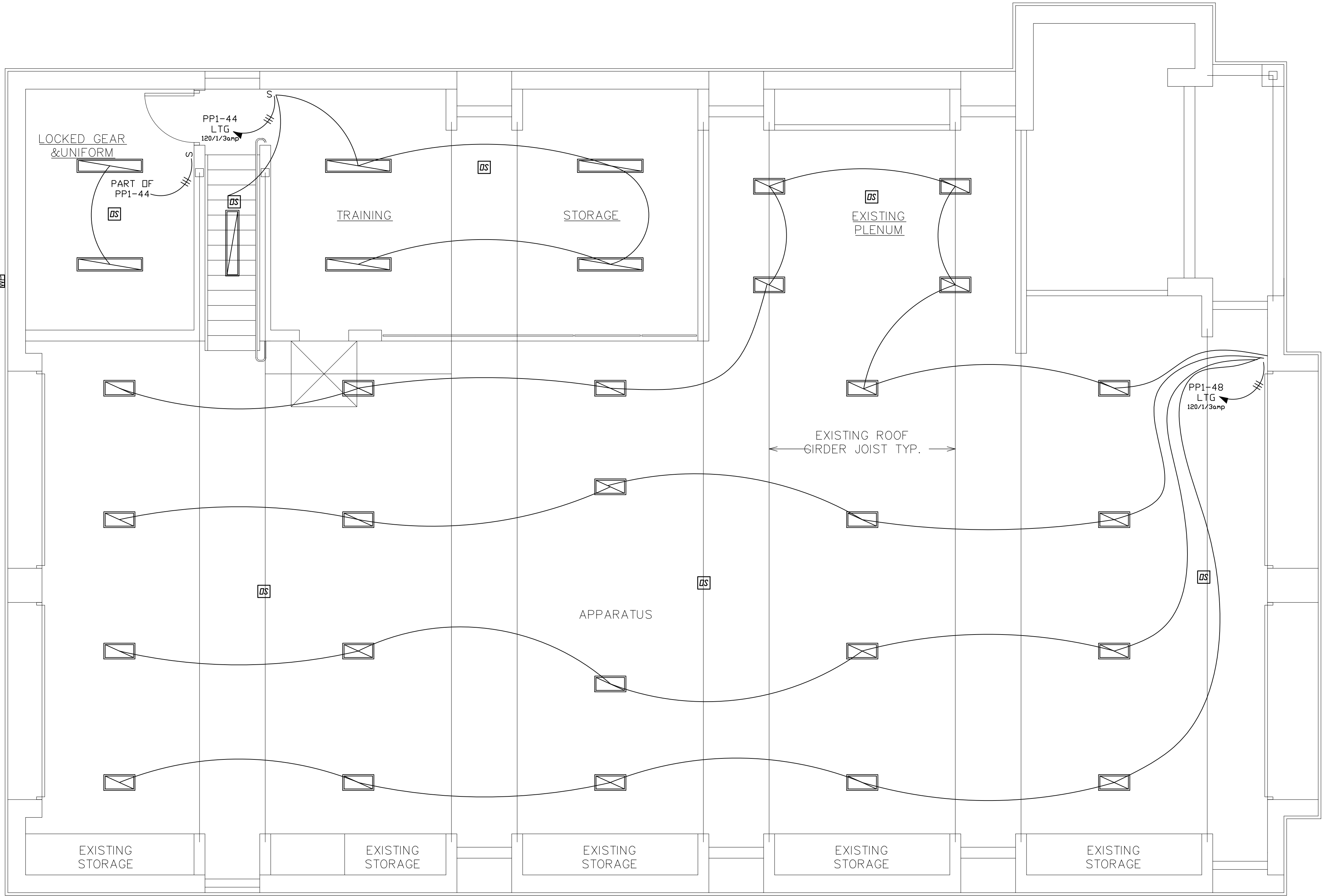
- GENERAL NOTES:
1. WHERE EXPOSED, ALL WIRING SHALL BE IN CONDUIT.
 2. ALL PIPING SHALL BE AT CEILING DOWN TO DEVICE OR FIXTURE UNLESS OTHERWISE NOTED.
 3. VERIFY ALL FINAL SWITCH LOCATIONS & TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
 4. VERIFY FIXTURE TYPES WITH ARCHITECT PRIOR TO INSTALLATION. CONNECTIONS SHALL BE AS PER MANUFACTURERS REQUIREMENTS.
 5. LED STRIP LIGHTING SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION MANUAL.
 6. ALL BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTING. FAN SHALL REMAIN ON FOR 15 MINUTES AFTER LIGHTS ARE SHUT OFF.

Western Hwy
LIGHTING LEGEND

	LITHONIA LIGHTING FEM L48 6000LM IMAFL WD 80CRI 35K FEM LED 48", 6,000 LUMENS, ACR. 38 WATTS
	LITHONIA LIGHTING FEM L48 4000LM IMAFL WD 80CRI 35K FEM LED 48", 4,000 LUMENS, ACR. 24 WATTS
	LITHONIA LIGHTING EPANL 2X2 2000LM 80CRI 35K EPANL 2X2, 4000 NOMINAL LUMENS 19 WATTS
	GOTHAM ARCHITEC EVD6 35/15 AR WD LSS EVD 6IN ROUND, 80 CRI, 3500K. 35 WATTS
	LED TYPE WALL SCONCE POSSINI EURO FRAMED 16 1/4"H BRUSHED NICKLE LAMPS PLUS # 9K037
	LED TYPE WALL WALL PACK WITH PHOTOCCELL BARRON LIGHTING #TLED-NFM-42-VS-4K 42 WATTS
	LED EXIT SIGN FIXTURE LITHONIA LIGHTING EXRG EL M6. 1 WATT
	NLIGHT NPP16 D SA POWER/RELAY PACK
	NLIGHT NCM PDT 9 LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR
	JUNCTION BOX

1. PROVIDE CAT-5 WIRING FOR ALL LIGHTING CONTROL. ALL OTHER WIRING SHALL BE CAT-7.
2. ALL EXTERIOR LIGHTING SHALL BE ON A TIMECLOCK FOR ADDITIONAL CONTROL. TORX MODEL NUMBER EWZ201C 2 CHANNEL.
3. SAVE AND REUSE 12 EXISTING LED LIGHT FIXTURES. (1)@ UTILITY RM. (1)@ STORAGE RM. (10)@WASHINGTON STREET.

ADDED
NOTES



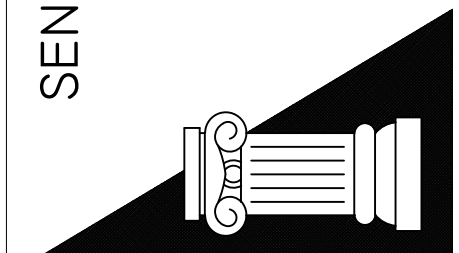
MEZZANINE LIGHTING PLAN

SCALE: 1/4" = 1'-0"

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TAPPAN FIRE DISTRICT
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FIRST FLOOR
MISCELLANEOUS PLAN

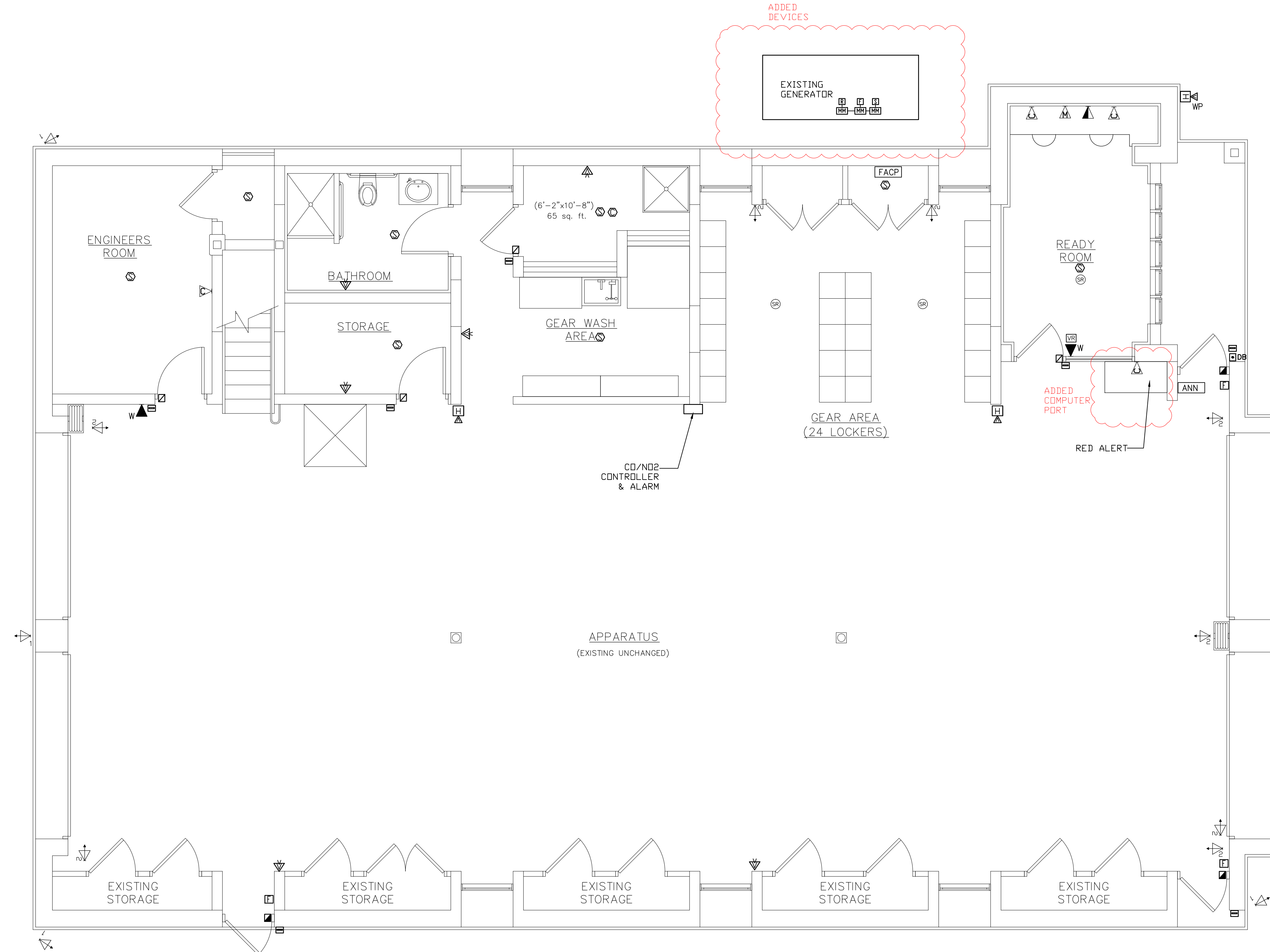
PROJECT #: 21-08

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CAD FILE: 21-08/P:/BID

DRAWING#:

E-8



FIRST FL MISCELLANEOUS PLAN

SCALE: 1/4" = 1'-0"

SYMBOL LIST

- CABLE TV OUTLET(MTD. @ 7'-6" AFF) UNLESS NOTED WIRE SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR TO COMPUTER IT ROOM. TERMINATE W/2-CAT 6 WIRE WHITE. VERIFY W/CABLE CD
- COMPUTER OUTLET(DUPLEX)(MTD. @ 2'-0" AFF) ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL CMPTR. WIRE CAT 6(BLUE) TO COMPUTER RM FROM EACH OUTLET. TERMINATE AT PUNCH BLOCK
- TELEPHONE OUTLET(MTD. @ 2'-0" AFF.) W = WALL MTD. (MTD. @ 6'-4" AFF) ELECTRICAL CONTRACTOR WILL SUPPLY AND INSTALL 2 CAT 6 WIRE GREY FROM EACH TELEPHONE OUTLET TO COMPUTER RM. TERMINATE AT PUNCH BLOCK
- INTERIOR DOOR ELECTRIC STRIKE
- EXTERIOR DOOR ELECTRIC STRIKE
- CARD READER(MTD. @ 48" AFF) WHERE APPLICABLE
- DOOR BELL & SPEAKER(PART OF ACCESS SYSTEM) ELECTRICAL CONTR. SHALL SUPPLY AND INSTALL WIRE, CDT, JBOXES ETC PLUS 18/4 TO TELEPHONE SYSTEM.
- DOOR CONTROL DEVICE
- SECURITY CAMERA
1 = DENOTES TYPE OF CAMERA(OUTDOOR)
2 = DENOTES TYPE OF CAMERA(INDOOR)
- RADIO SYSTEM SPEAKER
W/18/4+CAT 6 ORANGE FROM COMPUTER ROOM TO VOLUME
- VOLUME CONTROL TO SPEAKER
RADIO SYSTEM VOLUME CONTROLLER
- MONITOR OUTLET(DUPLEX)(MTD. @ 7'-6" AFF) ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL CMPTR. WIRE CAT 6(BLUE) TO COMPUTER RM FROM EACH OUTLET. TERMINATE AT PUNCH BLOCK
- FACP FIRE ALARM CONTROL PANEL
- ANN FIRE ALARM REMOTE ANNUNCIATOR PANEL
- STROBE
- HORN/STROBE
- MANUAL PULL STATION
- CONTROL MODULE WITH RELAY/CONTACTOR FOR HOOD
- SMOKE DETECTOR
RAL=ABOVE CLG. W/ REMOTE ALARM LAMP
- CARBON MONOXIDE DETECTOR
- HEAT DETECTOR
RAL=ABOVE CLG. W/ REMOTE ALARM LAMP

NOTE:

LOCATIONS SHOWN FOR ALL TELEPHONE, COMPUTER JACKS, CABLE TV, FIRE ALARM, ETC. ARE CONCEPTUAL-EXACT LOCATIONS TO BE COORDINATED WITH OWNER/ARCHITECT.

ALL WIRING FOR ACCESS, SURVEILLANCE, TELEPHONE, CABLE TV, COMPUTER, FIRE ALARM, PUBLIC ADDRESS SYSTEMS TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTR. ALL CDT, JBOXES ETC NEEDED TO FACILITATE INSTALLATION SHALL BE SUPPLIED AND INSTALLED BY ELECT. CONTR. ALL ROUTING TO 2ND FLOOR COMPUTER ROOM.

NOTE:

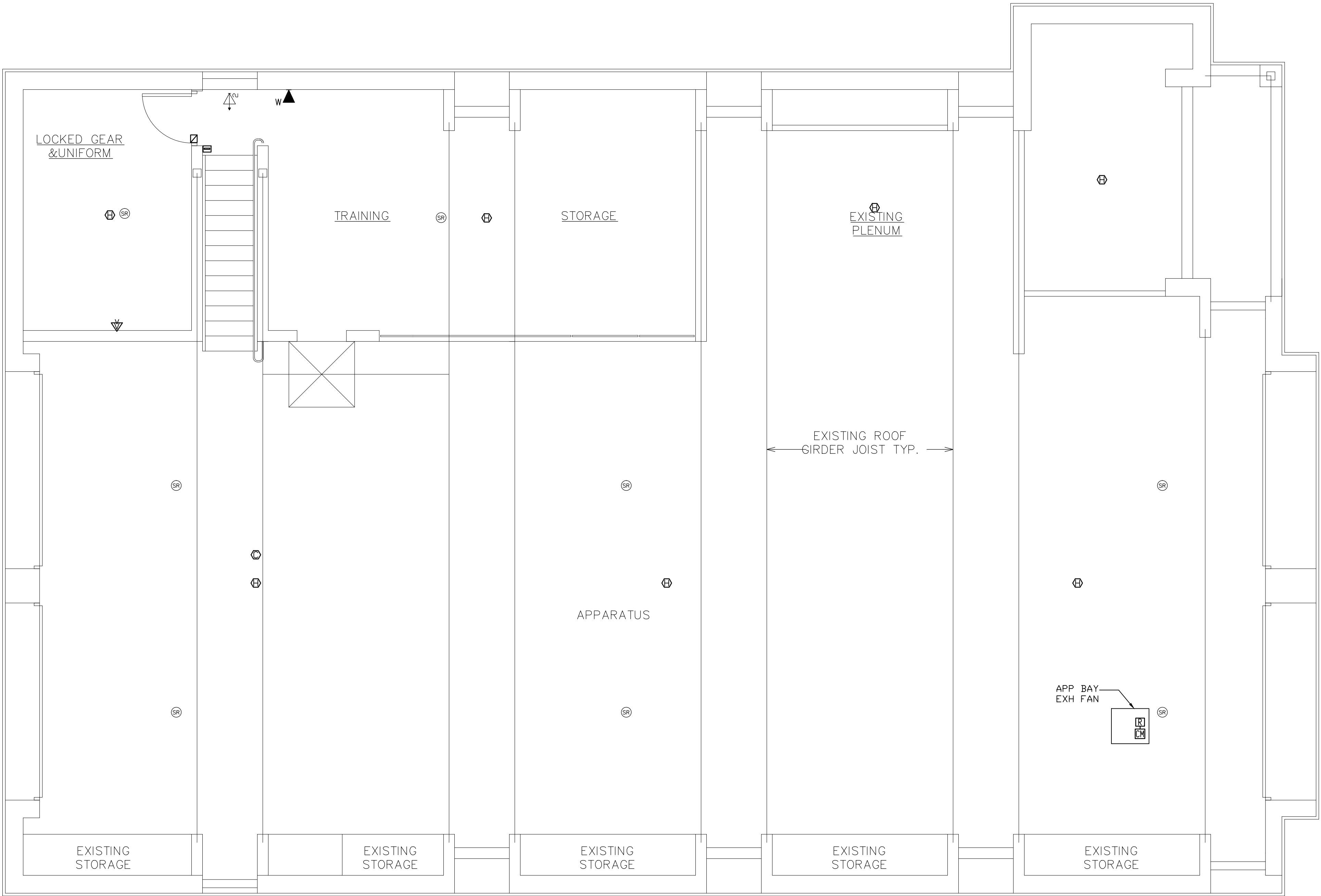
ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE VERIFIED WITH SUCCESSFUL SPECIALTY SYSTEMS VENDOR PRIOR TO PURCHASE OR INSTALLATION BY ELECTRICAL CONTRACTOR

NOTE:

ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE CERTIFIED BY ELECTRICAL CONTRACTOR.

NOTE:

OUTLETS SHOWN ON MISCELLANEOUS SYSTEMS PLANS ARE ALSO SHOWN ON POWER PLANS AND ARE NOT IN ADDITION TO OUTLETS SHOWN ON POWER PLANS



SYMBOL LIST	
	CABLE TV OUTLET(MTD. @ 7'-6" AFF) UNLESS NOTED WIRE SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR TO COMPUTER IT ROOM. TERMINATE W/2-CAT 6 WIRE WHITE. VERIFY V/CABLE CD
	COMPUTER OUTLET(DUPLEX)(MTD. @ 2'-0" AFF) ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL CMPTR. WIRE CAT 6(BLUE) TO COMPUTER RM FROM EACH OUTLET. TERMINATE AT PUNCH BLOCK
	TELEPHONE OUTLET(MTD. @ 2'-0" AFF.) W = WALL MTD. (MTD. @ 6'-4" AFF) ELECTRICAL CONTRACTOR WILL SUPPLY AND INSTALL 2 CAT 6 WIRE GREY FROM EACH TELEPHONE OUTLET TO COMPUTER RM. TERMINATE AT PUNCH BLOCK
	INTERIOR DOOR ELECTRIC STRIKE
	EXTERIOR DOOR ELECTRIC STRIKE
	CARD READER(MTD. @ 48" AFF) WHERE APPLICABLE
	DOOR BELL & SPEAKER(PART OF ACCESS SYSTEM) ELECTRICAL CONTR. SHALL SUPPLY AND INSTALL WIRE, CDT, JBOXES ETC PLUS 18/4 TO TELEPHONE SYSTEM.
	DOOR CONTROL DEVICE
	SECURITY CAMERA 1 = DENOTES TYPE OF CAMERA(OUTDOOR) 2 = DENOTES TYPE OF CAMERA(INDOOR)
	RADIO SYSTEM SPEAKER W/18/4+CAT 6 ORANGE FROM COMPUTER ROOM TO VOLUME
	VOLUME CONTROL TO SPEAKER RADIO SYSTEM VOLUME CONTROLLER
	MONITOR OUTLET(DUPLEX)(MTD. @ 7'-6" AFF) ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL CMPTR. WIRE CAT 6(BLUE) TO COMPUTER RM FROM EACH OUTLET. TERMINATE AT PUNCH BLOCK
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	STROBE
	HORN/STROBE
	MANUAL PULL STATION
	CONTROL MODULE WITH RELAY/CONTACTOR FOR HOOD
	SMOKE DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP
	CARBON MONOXIDE DETECTOR
	HEAT DETECTOR RAL=ABOVE CLG. W/ REMOTE ALARM LAMP

NOTE:
LOCATIONS SHOWN FOR ALL TELEPHONE, COMPUTER JACKS, CABLE TV, FIRE ALARM, ETC. ARE CONCEPTUAL-EXACT LOCATIONS TO BE COORDINATED WITH OWNER/ARCHITECT.

ALL WIRING FOR ACCESS, SURVEILLANCE, TELEPHONE, CABLE TV, COMPUTER, FIRE ALARM, PUBLIC ADDRESS SYSTEMS TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CNTR. ALL CDT, JBOXES ETC NEEDED TO FACILITATE INSTALLATION SHALL BE SUPPLIED AND INSTALLED BY ELECT. CNTR. ALL ROUTING TO 2ND FLOOR COMPUTER ROOM.

NOTE:
ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE VERIFIED WITH SUCCESSFUL SPECIALTY SYSTEMS VENDOR PRIOR TO PURCHASE OR INSTALLATION BY ELECTRICAL CONTRACTOR

NOTE:
ALL WIRING FOR SPECIALTY SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE CERTIFIED BY ELECTRICAL CONTRACTOR.

NOTE:
OUTLETS SHOWN ON MISCELLANEOUS SYSTEMS PLANS ARE ALSO SHOWN ON POWER PLANS AND ARE NOT IN ADDITION TO OUTLETS SHOWN ON POWER PLANS

MEZZANINE MISCELLANEOUS PLAN

SCALE: 1/4" = 1'-0"

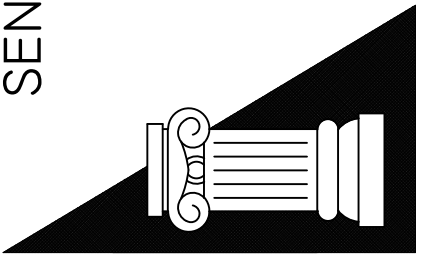
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TAPPAN NY, 10983

MEZZANINE
MISCELLANEOUS PLAN

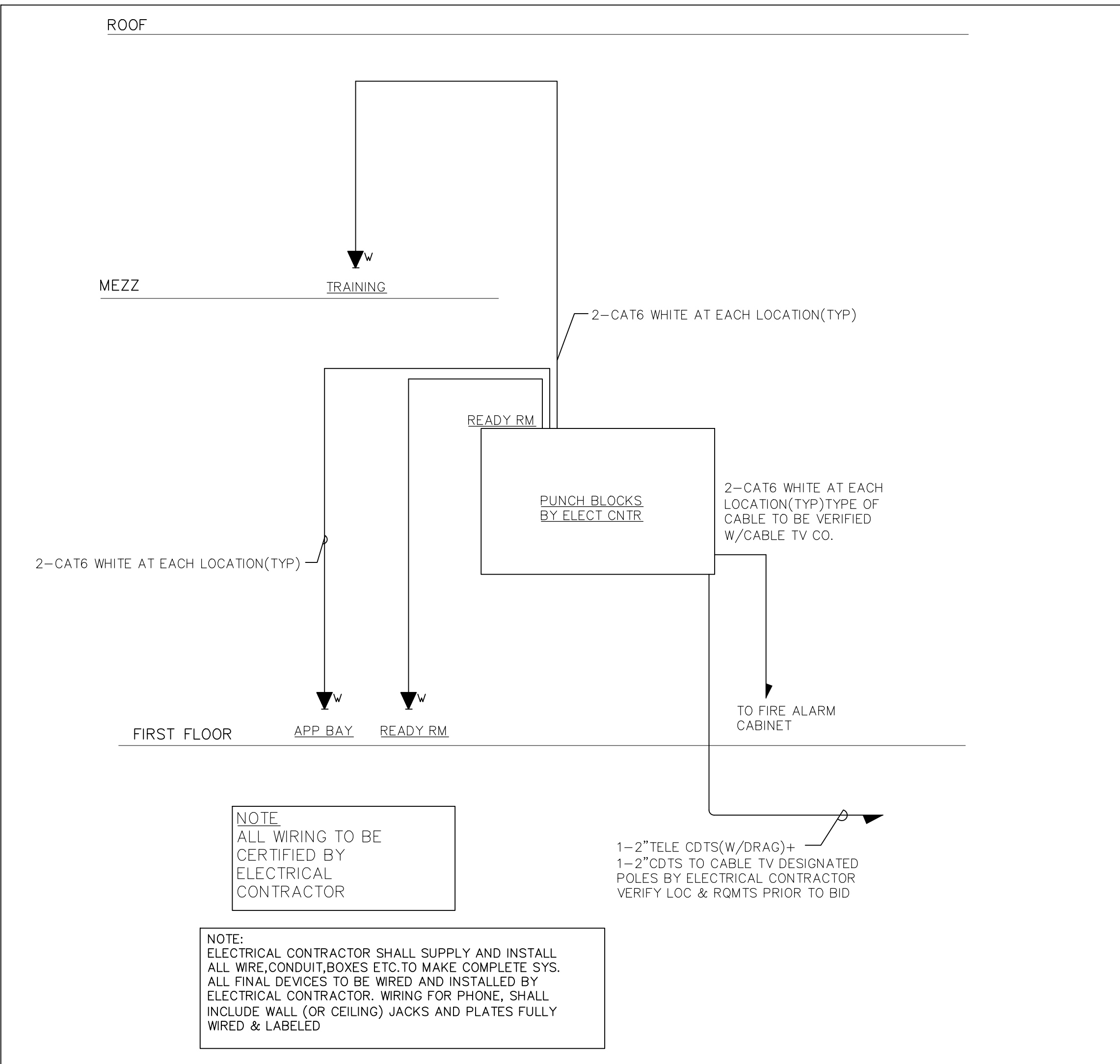
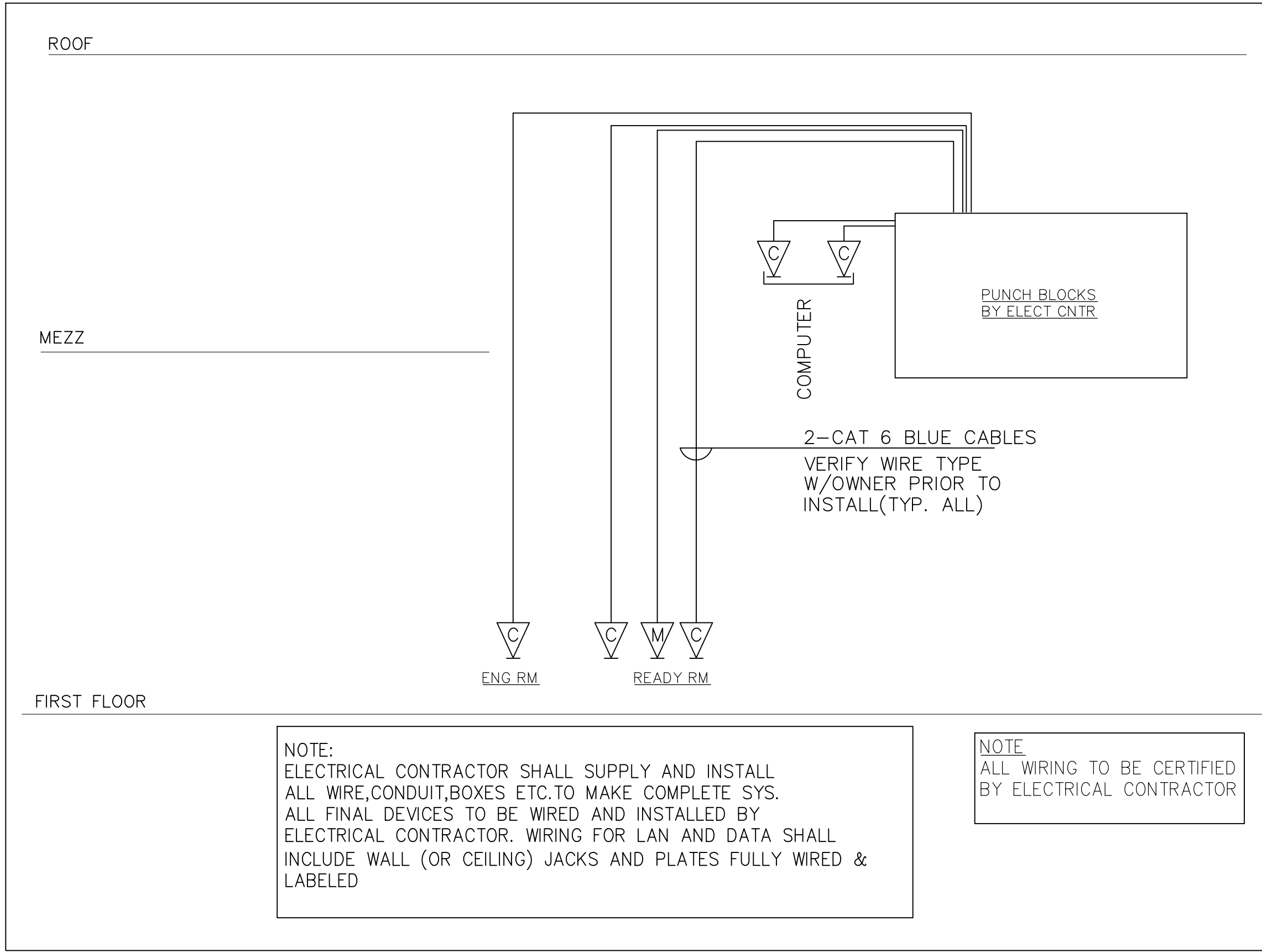
PROJECT #: 21-08

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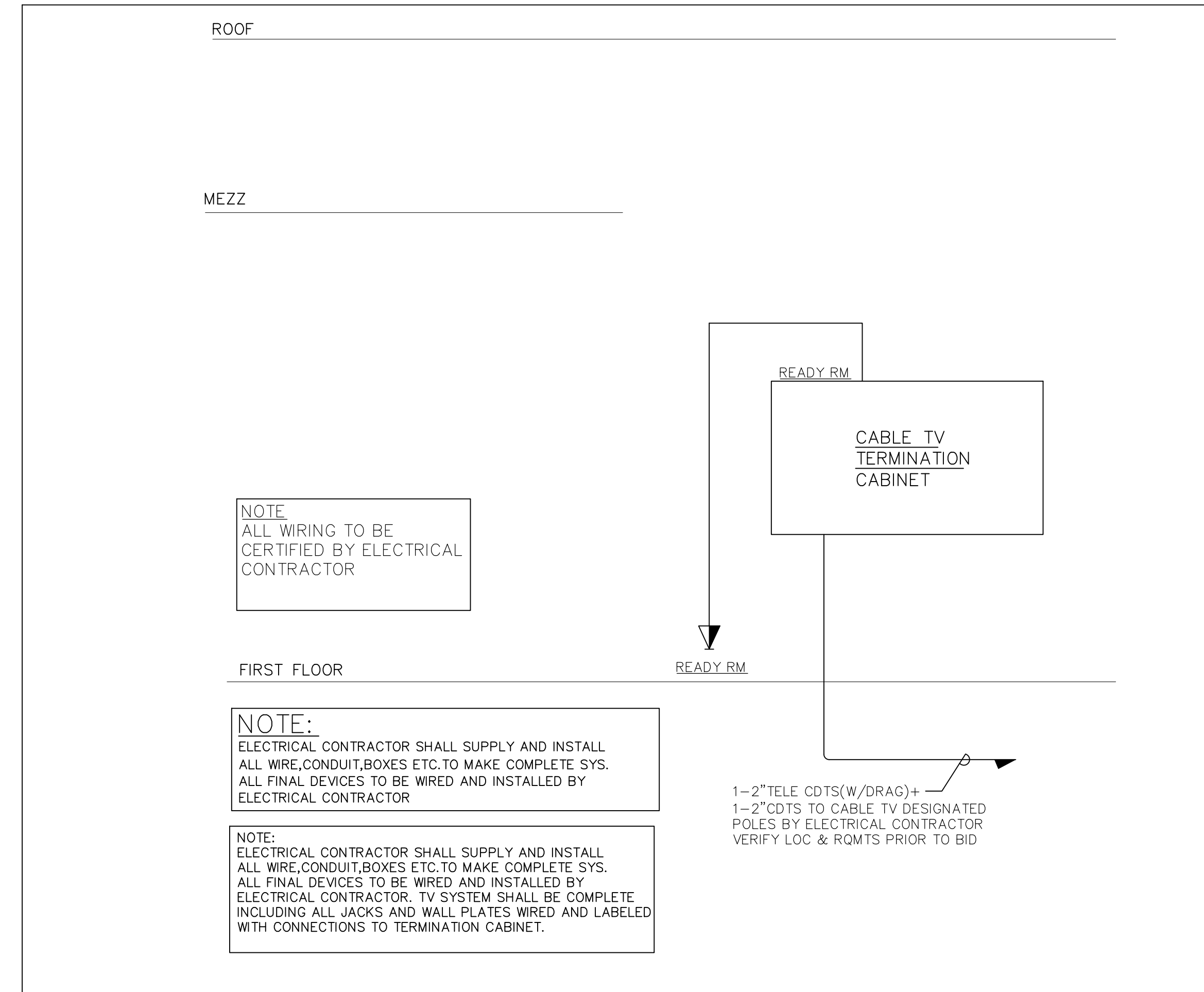
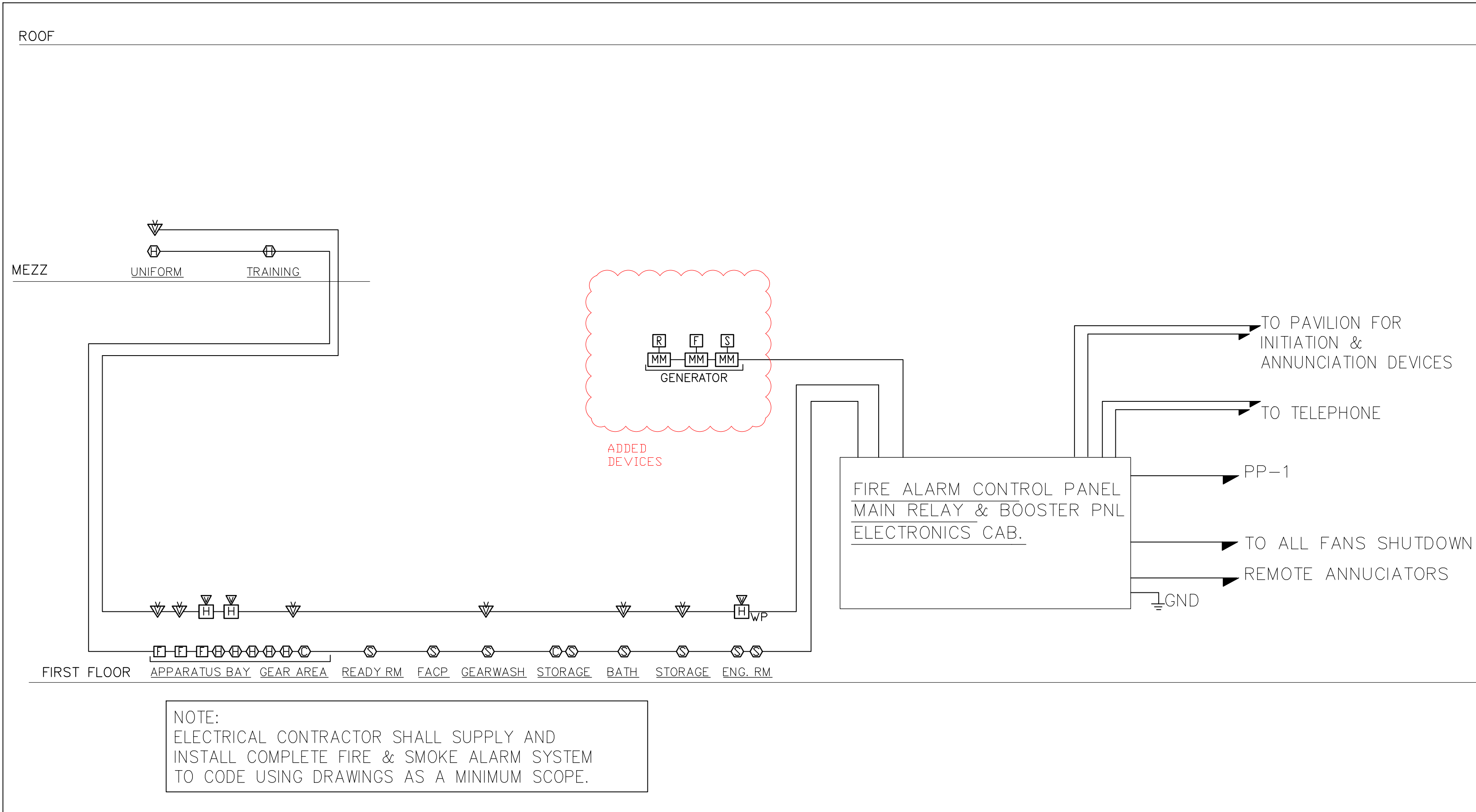
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E-9



MISCELLANEOUS RISERS

SCALE: 1/4" = 1'-0"



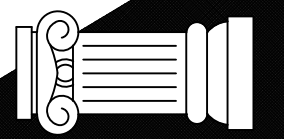
DATE: 7.18.22
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MISCELLANEOUS RISERS

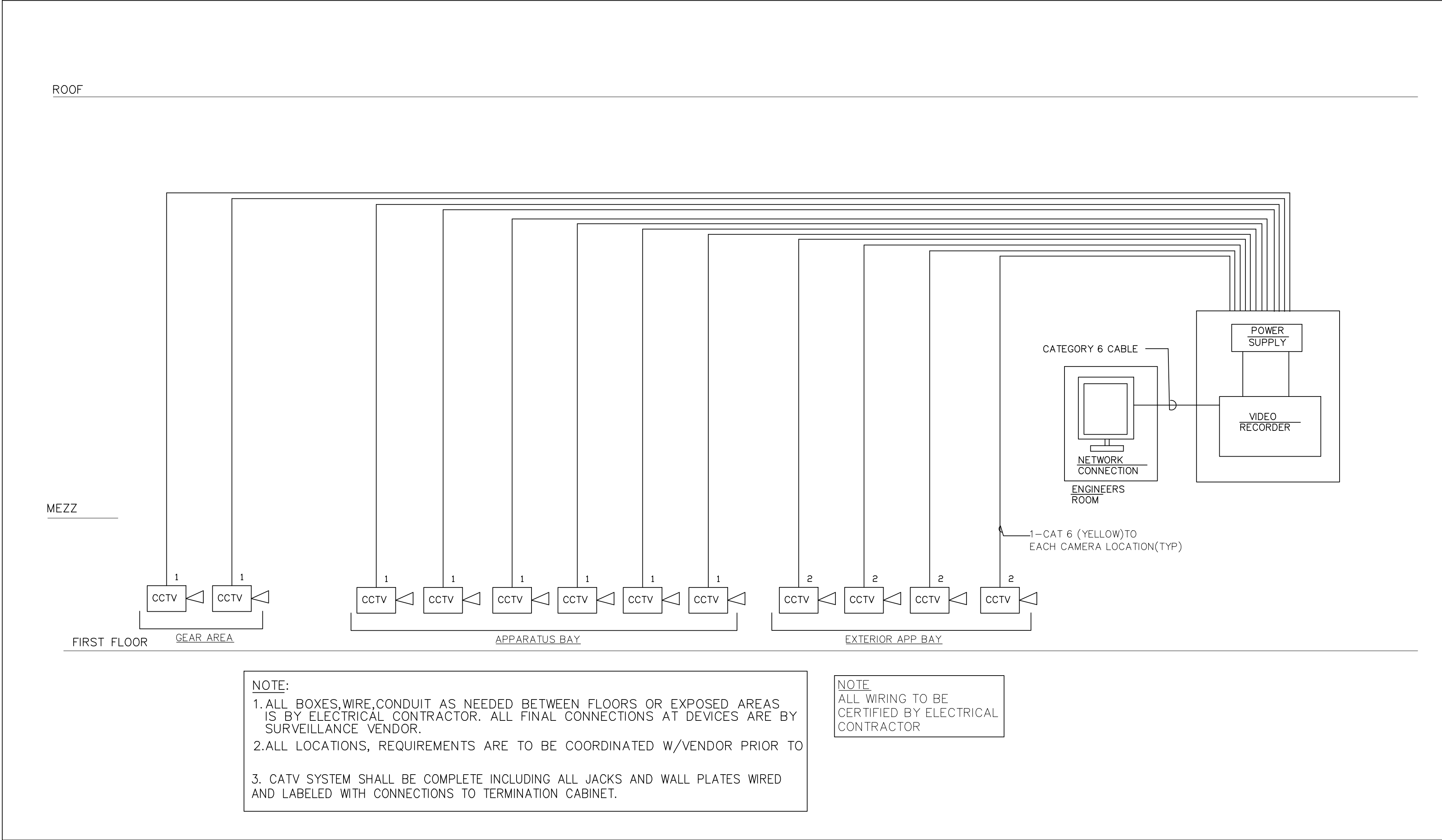
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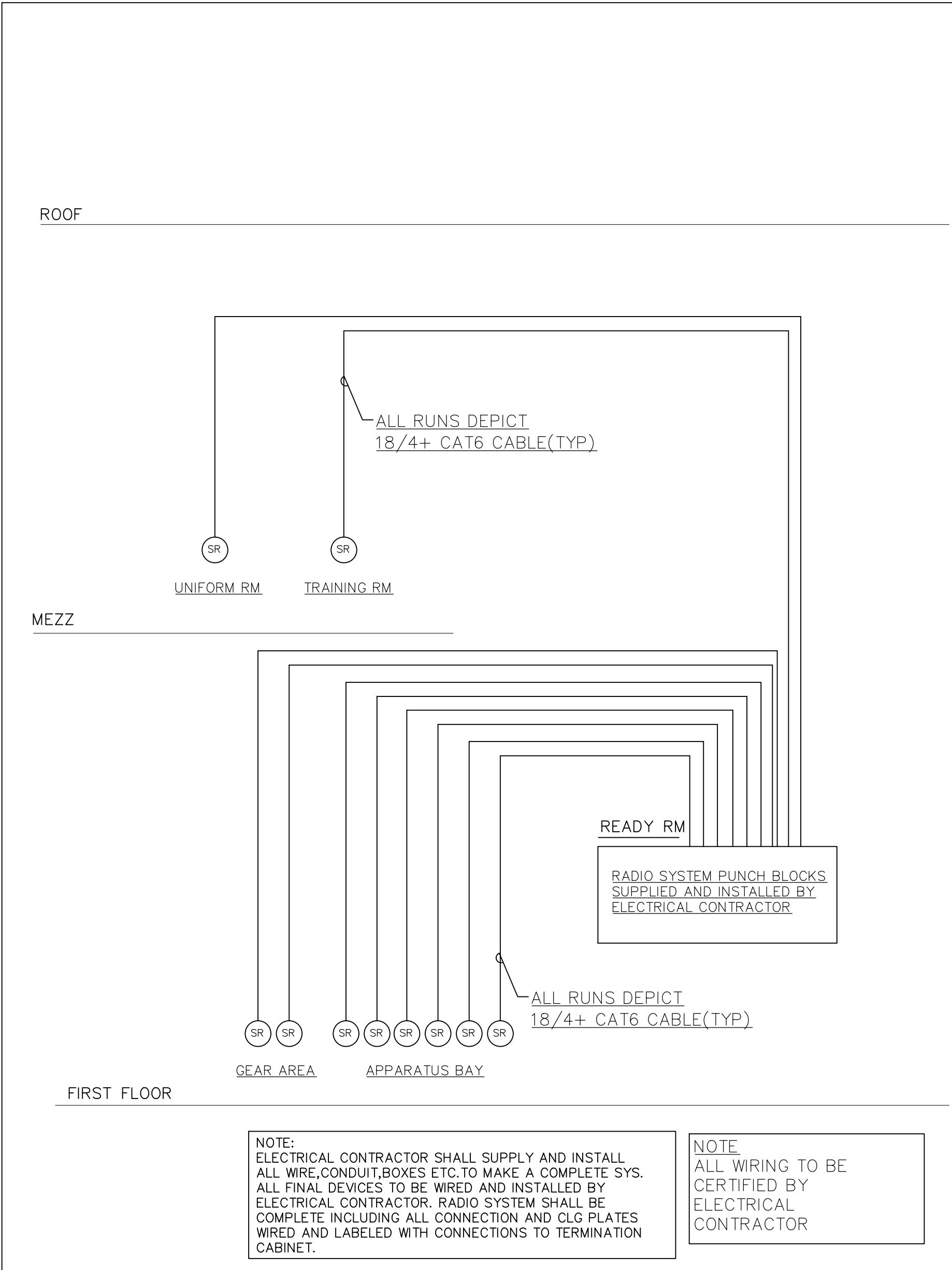
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MISCELLANEOUS RISERS CONTINUED

SCALE: 1/4" = 1'-0"



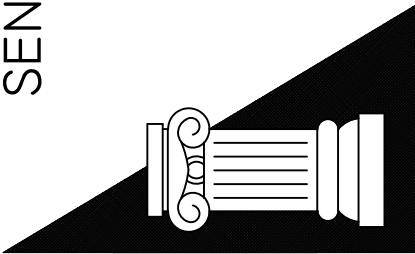
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MISCELLANEOUS RISERS
CONTINUED

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