



PEARL RIVER PUBLIC LIBRARY CHILLER REPLACEMENT

ARCHITECTURE DRAWINGS

- | | |
|------|---|
| A000 | COVER PAGE |
| A001 | NOTES |
| A002 | ARCHITECTURAL SITE PLAN |
| A090 | EXISTING GROUND FLOOR PLAN (FOR REFERENCE) |
| A091 | EXISTING GROUND FLOOR REFLECTED CEILING PLAN (FOR REFERENCE) |
| A109 | MECHANICAL PENTHOUSE FLOOR PLAN |
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(MIDDLE ROOF SELECTIVE DEMOLITION, DRAINAGE, AND CONSTRUCTION PLANS)
(UPPER ROOF SELECTIVE DEMOLITION, AND CONSTRUCTION PLANS) |
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| A500 | ENLARGED CHILLER PLANS AT MID ROOF, UPPER ROOF,
AND PART PLAN AT LOUVER |
| A520 | ENLARGED CHILLER PIT SECTIONS |
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| A620 | CHILLER PIT EXTERIOR ELEVATIONS |
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STRUCTURAL DRAWINGS

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S401 CHILLER FRAMING PLAN AND SECTIONS

MECHANICAL DRAWINGS

- M-0.1 MECHANICAL SYMBOLS AND ABBREVIATIONS
- MP-1.0 MECHANICAL MEZZANINE PENTHOUSE DEMO PLAN
- MP-2.1 MECHANICAL MEZZANINE PENTHOUSE NEW WORK PLAN
- M-5.1 MECHANICAL CHILLER FLOW DIAGRAM & SEQUENCE OF OPERATIONS
- M-5.2 MECHANICAL CHILLED WATER SYSTEM PARTIAL ELEVATION SECTION
- M-6.0 MECHANICAL EQUIPMENT SCHEDULES
- M-7.1 MECHANICAL DETAILS
- M-7.2 MECHANICAL DETAILS 2
- E-0.1 ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES
- E-1.0 ELECTRICAL MEZZANINE PENTHOUSE DEMOLITION PLAN
- E-2.0 ELECTRICAL MEZZANINE PENTHOUSE NEW WORK PLAN
- E-5.0 ELECTRICAL ONE-LINE DIAGRAMS AND FIRST FLOOR PART PLANS
- E-7.0 ELECTRICAL DETAILS AND LIGHTING FIXTURE SCHEDULE

PROJECT INFORMATION

OWNER:
PEARL RIVER, NY

ARCHITECT:
LOTHROP ASSOCIATES LLP ARCHITECTS

333 Westchester Avenue, White Plains, New York 10604
(914) 741-1115

STRUCTURAL ENGINEER:
SILMAN STRUCTURAL ENGINEERS

32 Old Slip, New York, NY 10005
(212) 620 7970

MEP ENGINEER:
OLA CONSULTING ENGINEERS

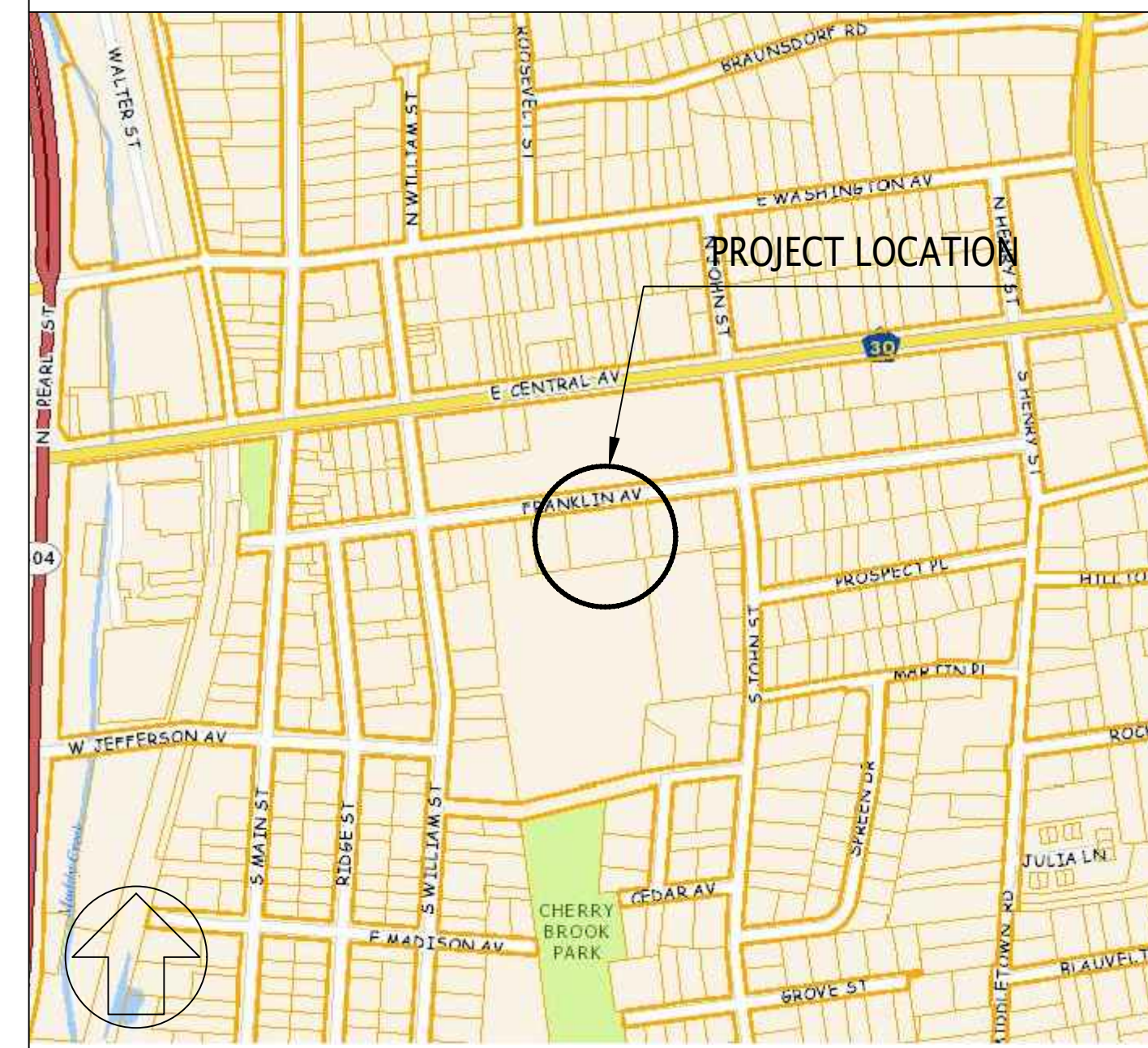
50 Broadway Ste 2, Hawthorne, NY 10532
(914) 747 2800

ACOUSTICAL CONSULTANTS:

RAH ASSOCIATES

124 East 40th Street, New York, NY 10016
(212) 687 2672

VICINITY MAP



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White Plains Rochester Red Bank Hartford

CONSULTANTS:



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ROBERT A. HANSEN ASSOCIATES, INC.
ACOUSTICAL / AUDIO / VIDEO CONSULTANTS
124 EAST 40th STREET NEW YORK, NY 10016

2	06.01.2022	ISSUED FOR BID
1	05.01.2022	ISSUED FOR NYSED APPROVAL
ISSUE NO.	ISSUE DATE	DESCRIPTION

PEARL RIVER PUBLIC LIBRARY CHILLER REPLACEMENT

80 Franklin Ave.
Pearl River, NY 10965

NY SED PROJECT CONTROL NO.
50 - 03 - 08 - 03 - 6 - 005 - 004

COVER PAGE

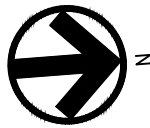
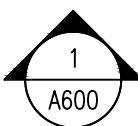


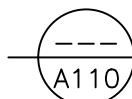
PROJECT NO.:	2494-00	SCALE:	AS NOTED
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DRAWING NO.:

A000

NOTE: OVERFLOW DRAIN IS BEING PROVIDED

ABBREVIATIONS	
APPROX.	APPROXIMATE
CI.	CONTINUOUS
COORD.	COORDINATE
DIA	DIAMETER
DR.	DOOR
DWG.	DRAWING
DWGS.	DRAWINGS
ELEC.	ELECTRICAL
EXIST.	EXISTING
EXT'G.	EXISTING
GWB.	GYPSUM WALL BOARD
INSUL	INSULATION
MANUF.	MANUFACTURER
MEP	MECHANICAL ELEC PLUMBING
MID	MIDDLE
MTL	METAL
MNT	MOUNT
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O.F.	OVERFLOW
PART	PARTIAL
RD.	ROOF DRAIN
R-INSUL	RIGID INSULATION
REQ	REQUIRED
SFRP	SHORT FIBRE-REINFORCED POLYMER
UON	UNLESS OTHERWISE NOTED

SYMBOL LEGEND	
	NORTH ARROW
	ELEVATION INDICATOR
	DOOR TAG
	LEVEL CHANGE
	INDICATES REFERENCE DRAWING

GENERAL NOTES TO GENERAL CONTRACTOR

GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD
VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.

THE INTENT OF THE DESIGN DOCUMENTS IS ONLY TO REPRESENT THE DESIGN INTENT FOR THE PROJECT.

ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING, AND ENERGY REQUIREMENTS. IN THE CASE OF CONFLICT BETWEEN STATE AND LOCAL CODES, THE MORE STRINGENT STANDARD SHALL APPLY. GENERAL CONTRACTOR SHALL NOTIFY IMMEDIATELY ARCHITECT IF HE OR SHE THINKS THAT DESIGN INTENT IS NOT CODE-COMPLIANT

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXECUTION OF THE PROJECT UNDER A SINGLE CONTRACT.

GENERAL CONTRACTOR SHALL CONFIRM THAT ALL COORDINATION, FIELD VERIFICATION, MUTUAL DESIGN INTENT UNDERSTANDING AMONG THE TRADES REQUIRED FOR THE WORK IS EXECUTED IN PROPER ORDER.


GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO EXECUTE THE WORK WITH ACKNOWLEDGE OF LOCAL NOISE ORDINANCES IN ACCORDANCE WITH LOCAL REQUIREMENTS IN THIS REGARD. ADDITIONALLY, THE GENERAL CONTRACTOR SHALL KEEP THE BUILDING OWNER INFORMED OF ANTICIPATED NOISE RELATED TO THE WORK.


BUILDING OCCUPANCY SHALL REMAIN IN-EFFECT THROUGHOUT THE CONSTRUCTION. THE GENERAL CONTRACTOR SHALL PLAN ON EXECUTING THE WORK WITH MINIMAL DISTURBANCE TO THE INTERIOR. ALL INTERIOR LOGISTICS ANTICIPATED NEED TO BE VERIFIED WITH THE ARCHITECT AND THE OWNER.

USE OF THE LIBRARY'S PARKING SPACES FOR CONSTRUCTION PURPOSES, INCLUDING RELATED DELIVERIES OF EQUIPMENT NEEDS TO BE COORDINATED AND APPROVED BY THE OWNER AND THE ARCHITECT. ALL EXISTING PARKING WILL REMAIN IN USE BY THE LIBRARY STAFF.

CONSULTANTS:



32 Old Slip, 10th Floor, New York, NY 10005
212 620 7970




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PUBLIC LIBRARY
CHILLER REPLACEMENT

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NY SED PROJECT CONTROL NO.

50 - 03 - 08 - 03 - 6 - 005 - 004

NOTES

PROJECT NO.:	2494-00	SCALE:	AS NOTED
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DRAWING NO.: A001

N:\10 PROJECTS\LIB-EDU\2494-00 - Pearl River Library Chiller (21-578)\2494-00 - Drawings (DWG)\2494-00_22_0601 - Issue for Bid\2494-00_22_0601 - BS - A000 - A002 - Core N, Ar Spacing

one eighth inch = one foot
0 4 8 16

one quarter inch = one foot
0 4

one eighth inch = one foot
0 4 8

three eighths inch = one foot
0 4

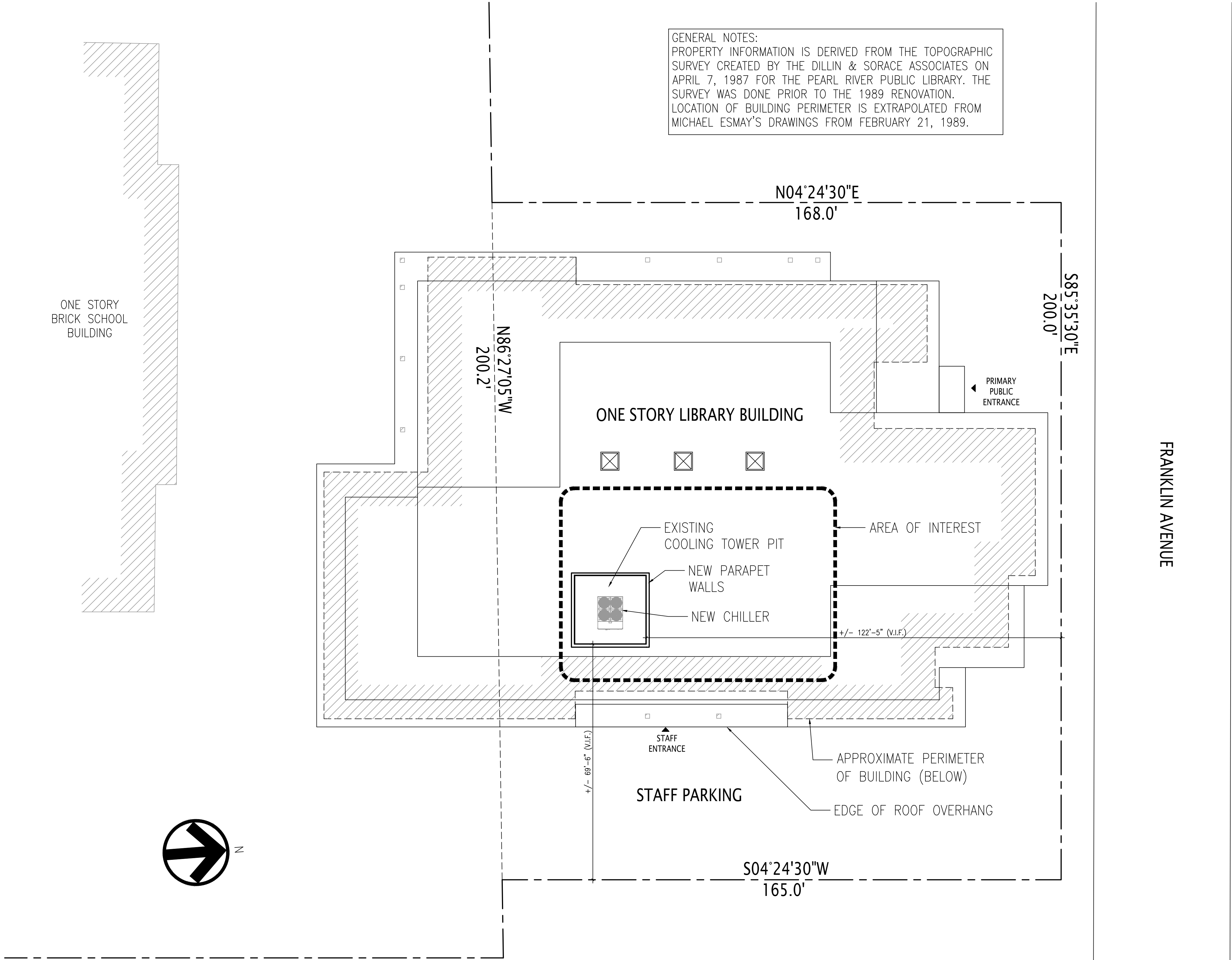
one half inch = one foot
0 4

three quarters inch = one foot
0 4

one inch = one foot
0 2

one inch = one foot
0 2

one inch = one foot
0 2



1 ARCHITECTURE SITE PLAN
1/16" = 1'-0"

Lothrop

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ARCHITECTURE SITE PLAN

PROJECT NO.: 2494-00 SCALE: AS NOTED

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A002

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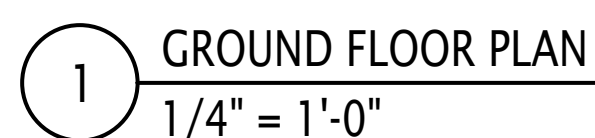
ROBERT A. HANSEN ASSOCIATES, INC.
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124 EAST 40th STREET NEW YORK, NY 10018

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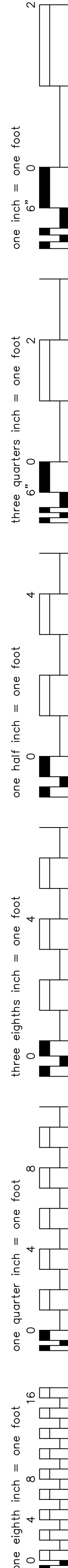
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PROJECT NO.:	2494-00	SCALE:	AS NOTED
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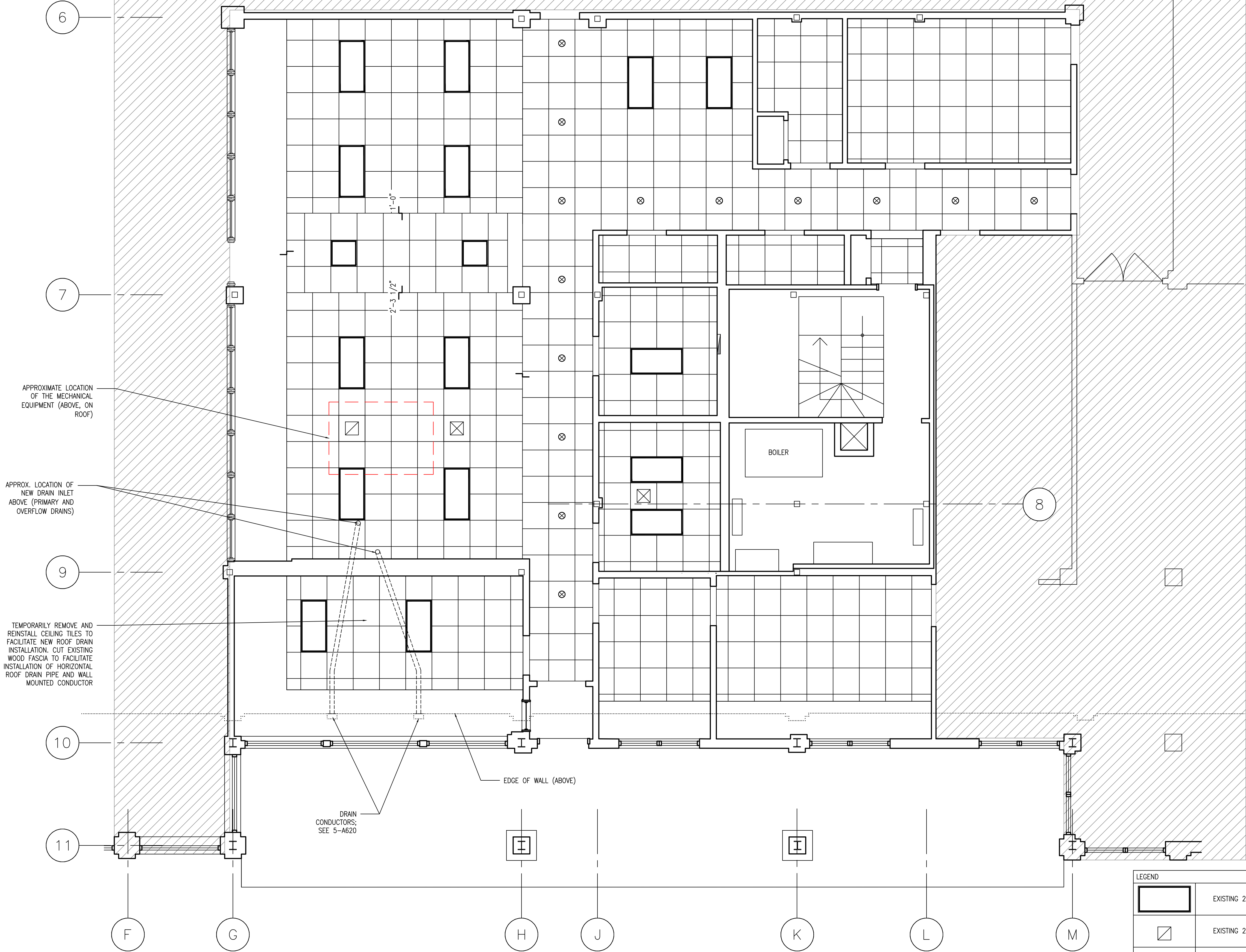
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N:\0 PROJECTS\LIB-EDU\2494-00 - Pearl River Library Chiller (21-578)\2494-00 - Drawings (DWG)\2494-00_22_0601 - Issue for Bid\2494-00_22_0601 - BS - A90 - A110 Plan.dwg



1 GROUND FLOOR PLAN
1/4" = 1'-0"



LEGEND	
	EXISTING 2 X 4 LIGHT
	EXISTING 2 X 2 RETURN
	EXISTING 2 X 2 SUPPLY
	EXISTING DOWNLIGHTS

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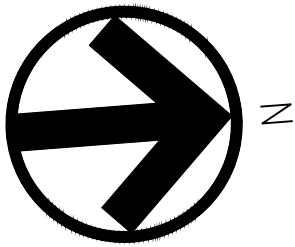
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EXISTING GROUND FLOOR REFLECTED CEILING PLAN (FOR REFERENCE)

PROJECT NO.: 2494-00 SCALE: AS NOTED

DRAWING NO.:

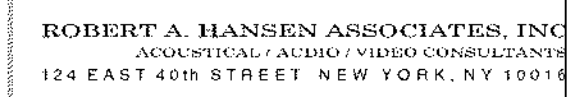
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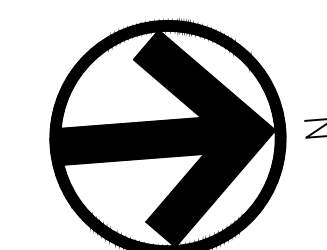


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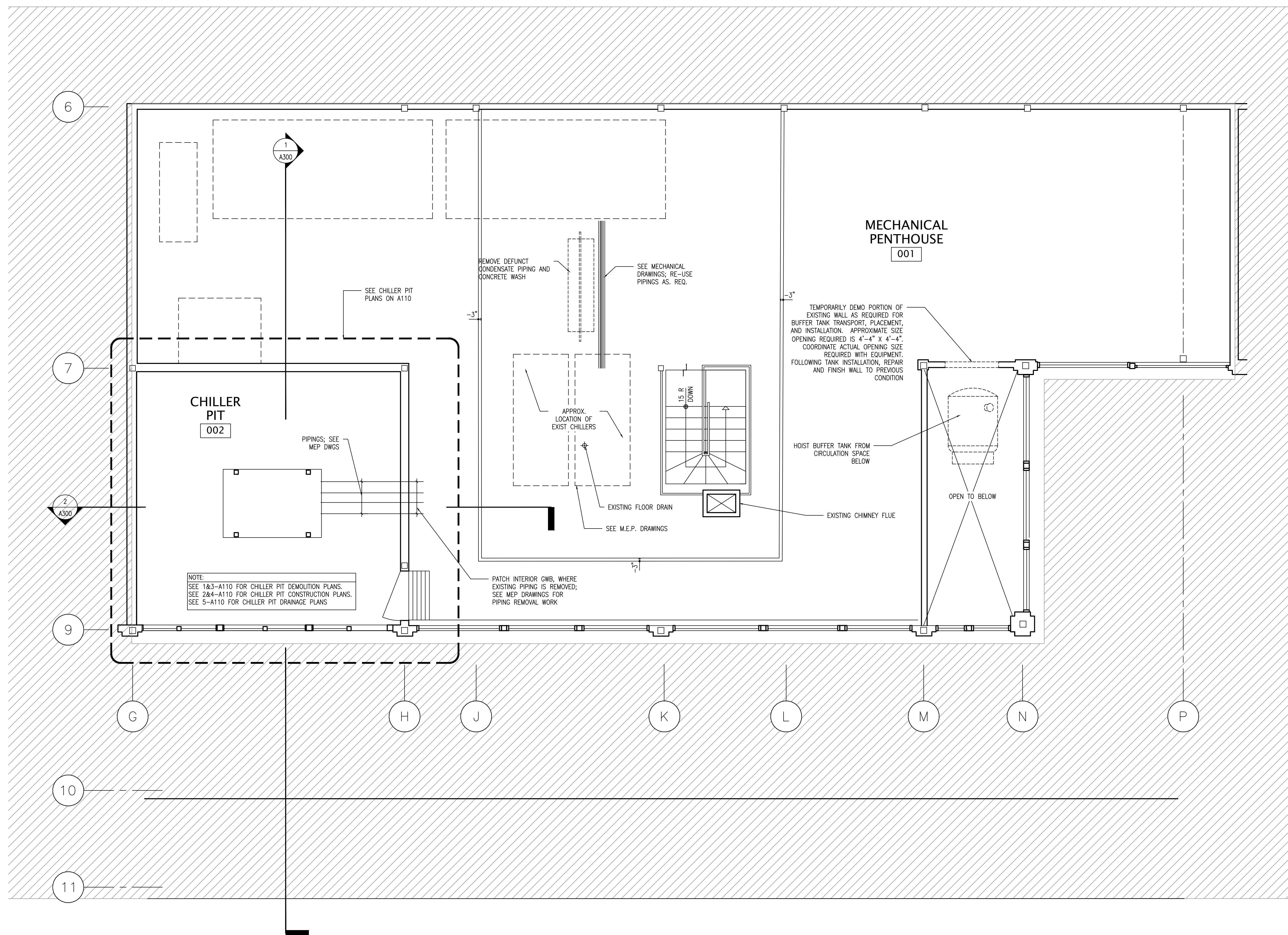
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MECHANICAL PENTHOUSE FLOOR PLAN

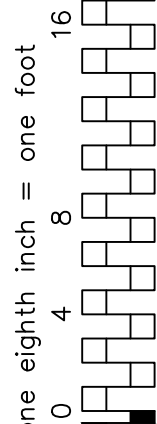
PROJECT NO.:	2494-00	SCALE:	AS NOTED
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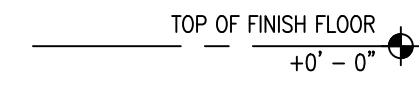
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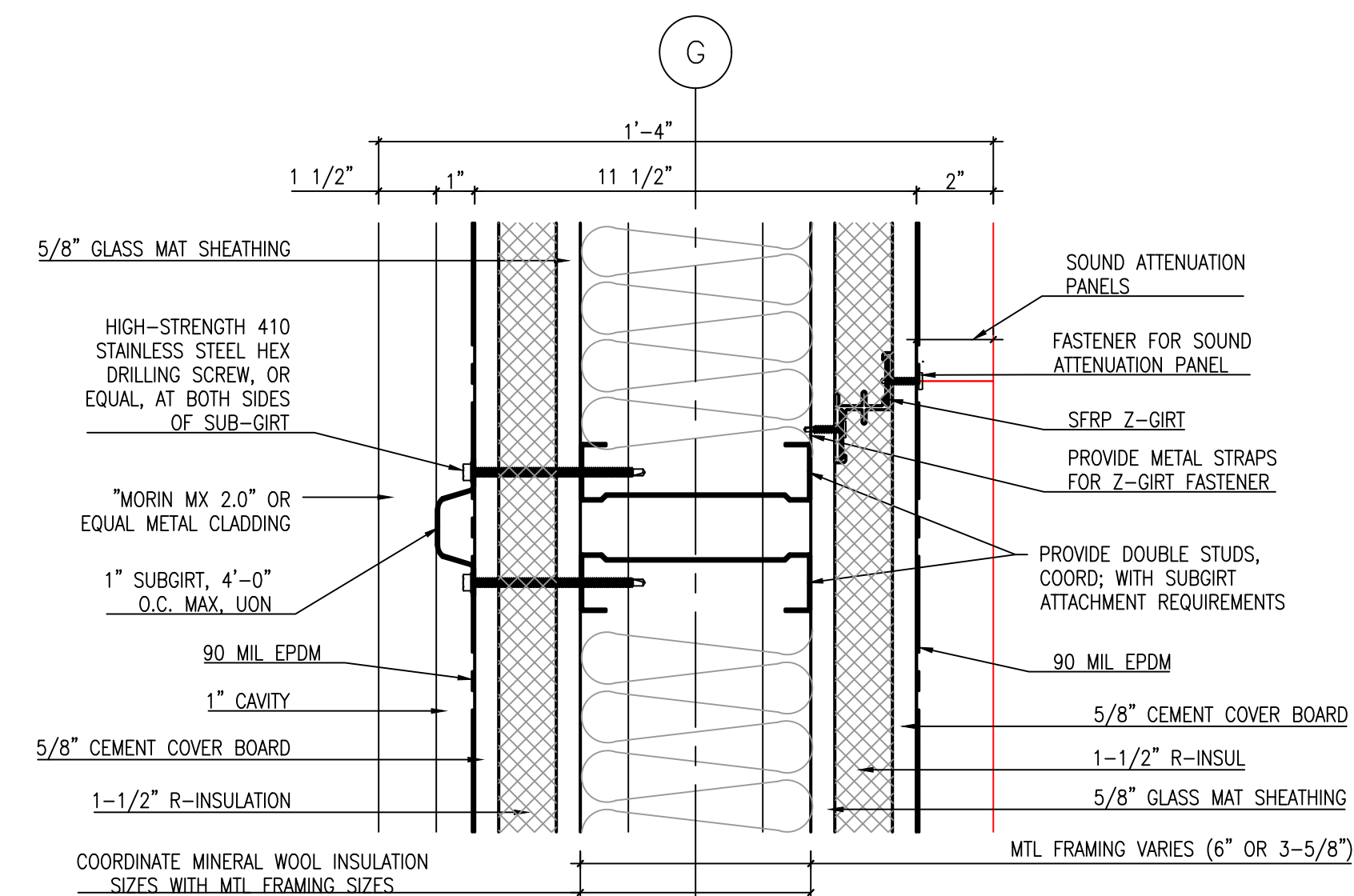
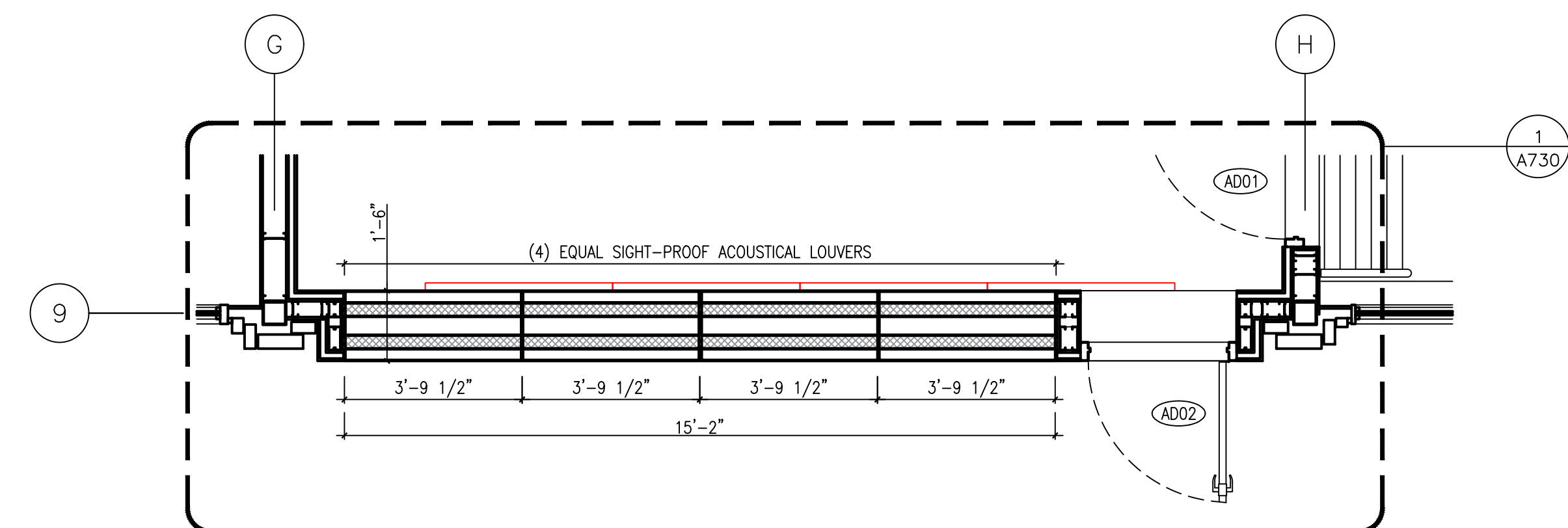
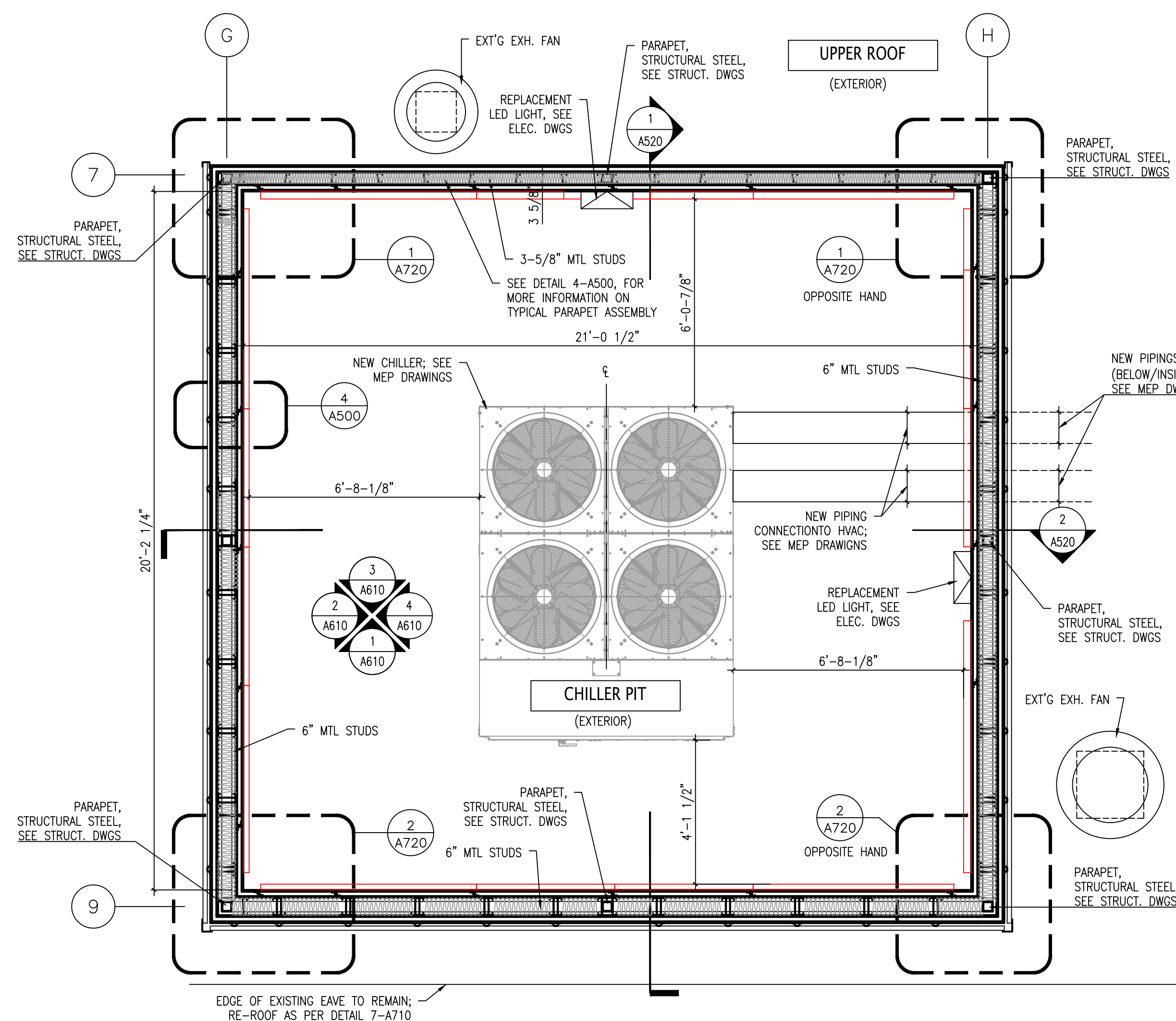
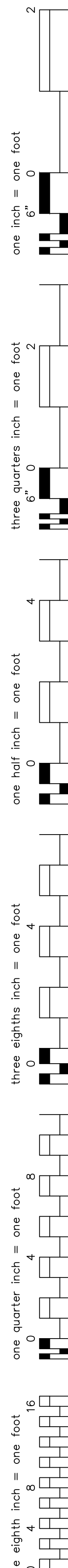
1 PENTHOUSE FLOOR PLAN
1/4" = 1'-0"



2 Building Cross Section Cut Thro Replacement Cooling Equipment, Looking North
1/4" = 1'-0"



A300



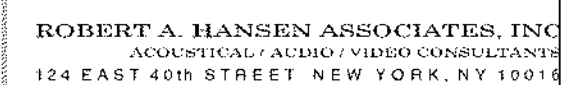
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CHILLER PIT SECTIONS

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DRAWING NO.:

A520



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A610



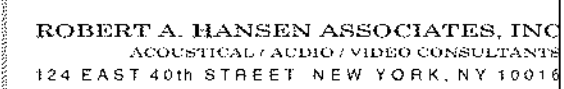
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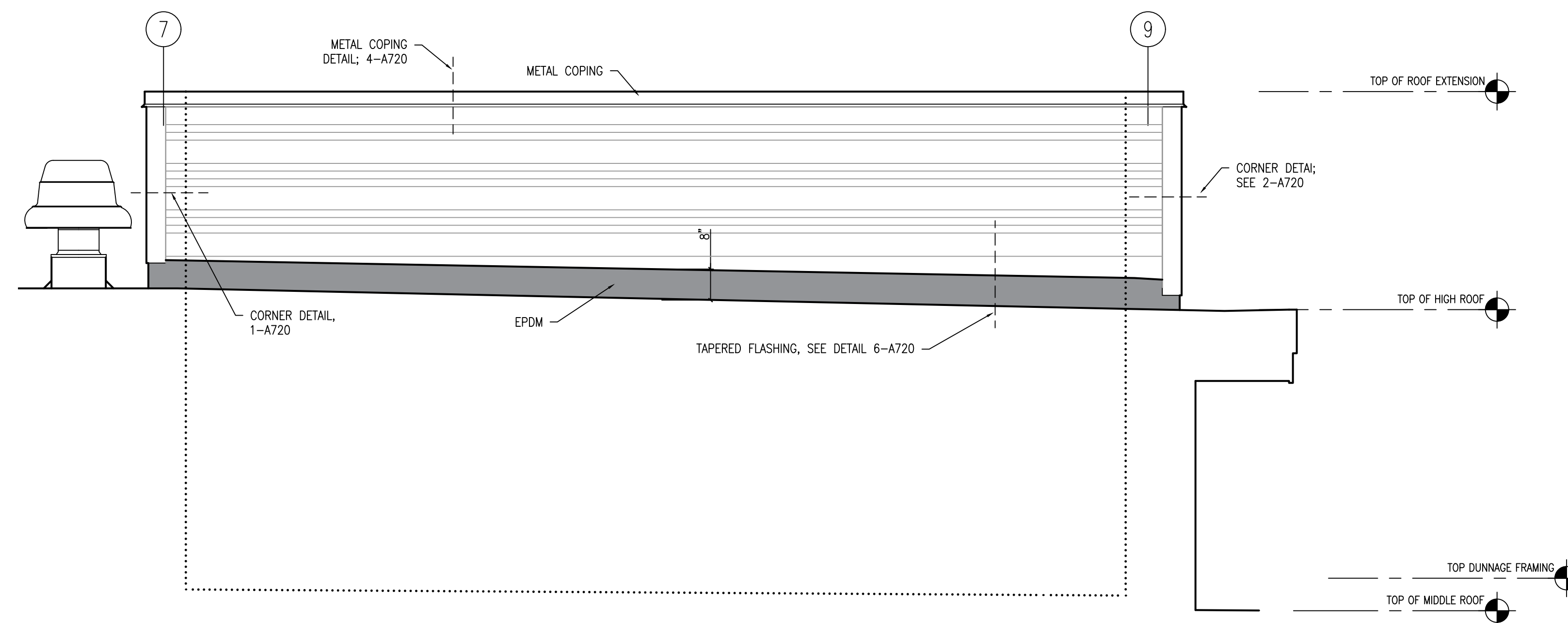
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CHILLER PIT EXTERIOR ELEVATIONS

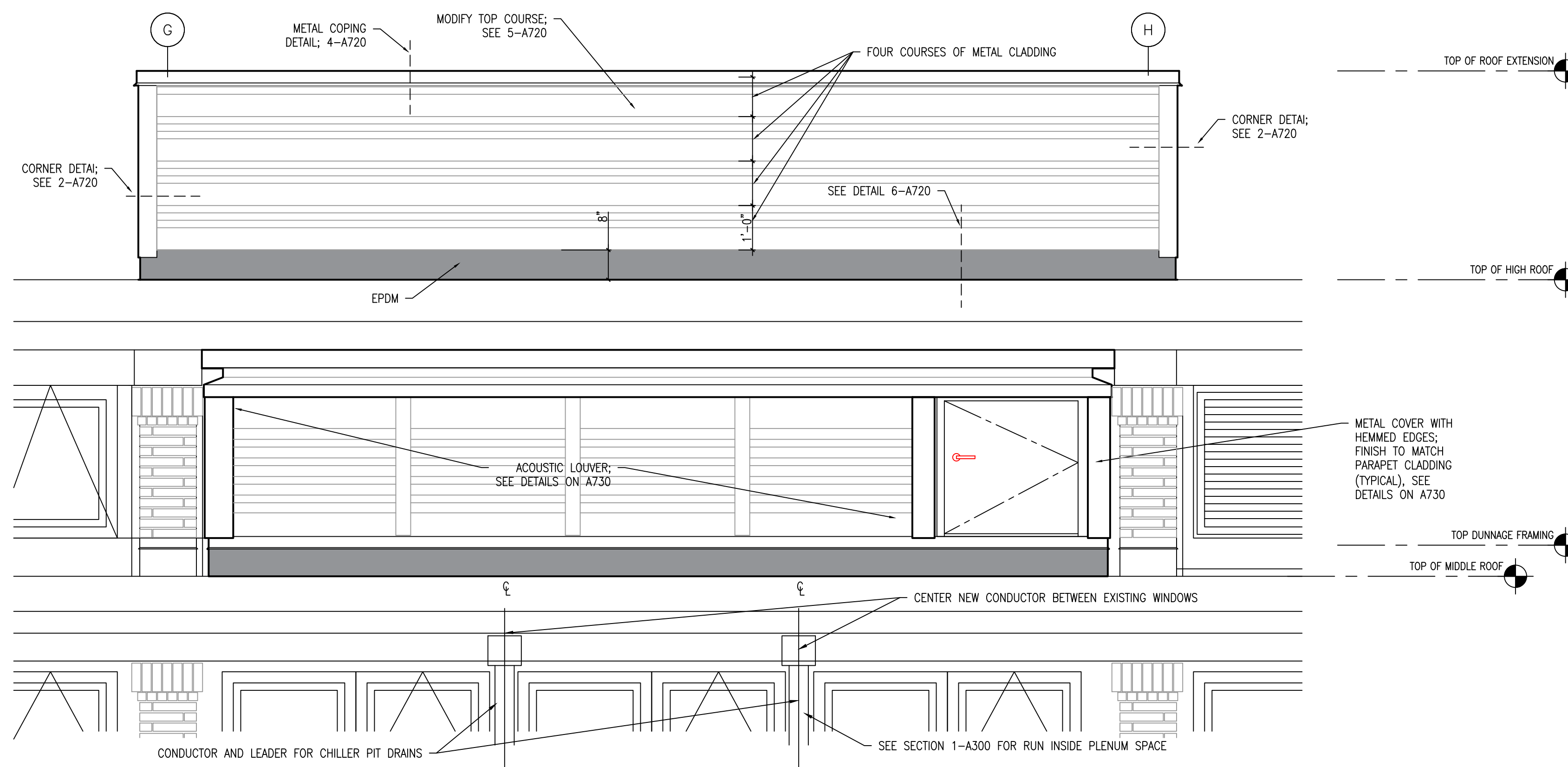
PROJECT NO.:	2494-00	SCALE:	AS NOTED
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DRAWING NO.:

A620



6 SOUTH ELEVATION (PARTIAL)
1/2" = 1'-0"



5 EAST ELEVATION (PARTIAL)
1/2" = 1'-0"

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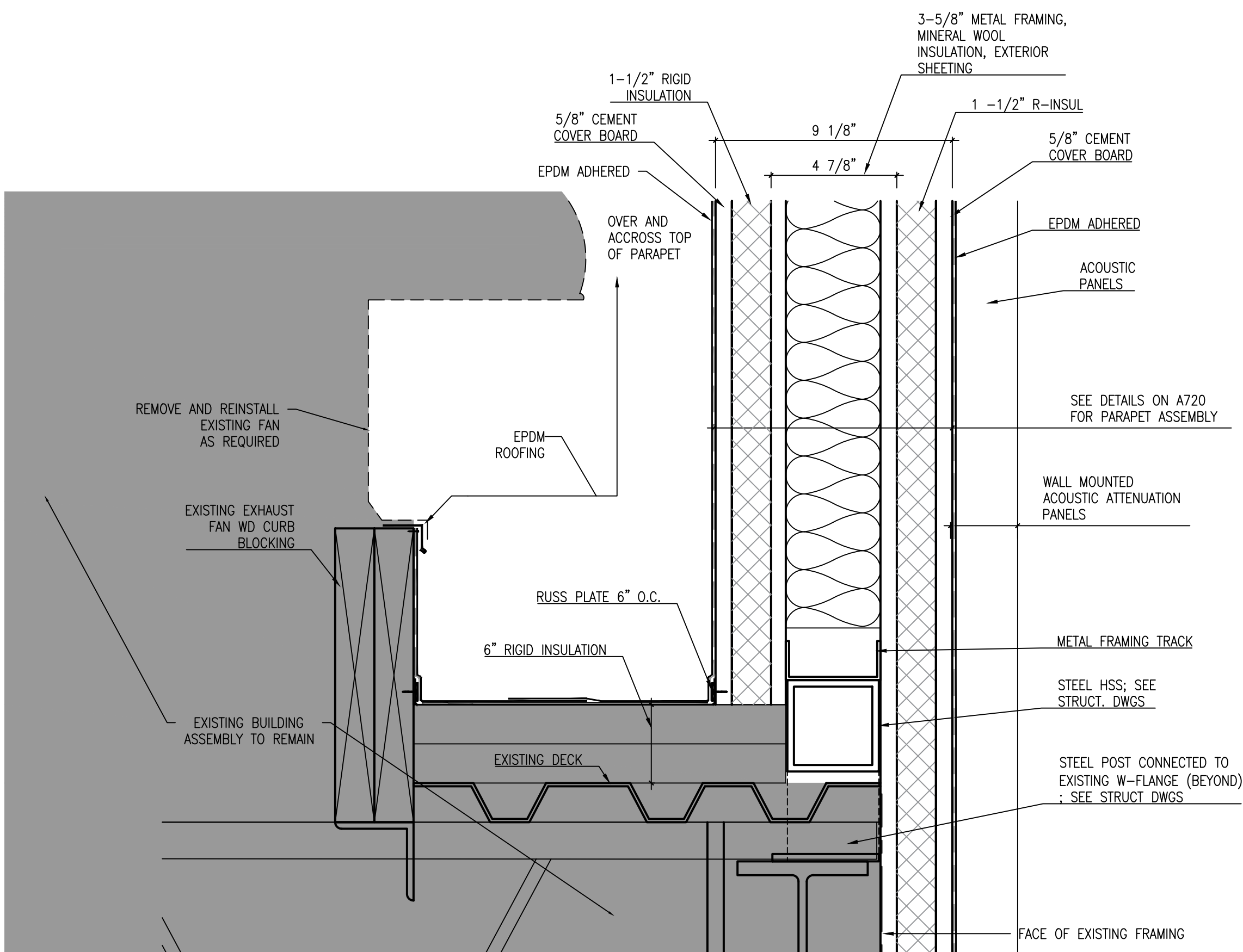
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MISCELLANEOUS
ENCLOSURE
MODIFICATION DETAILS

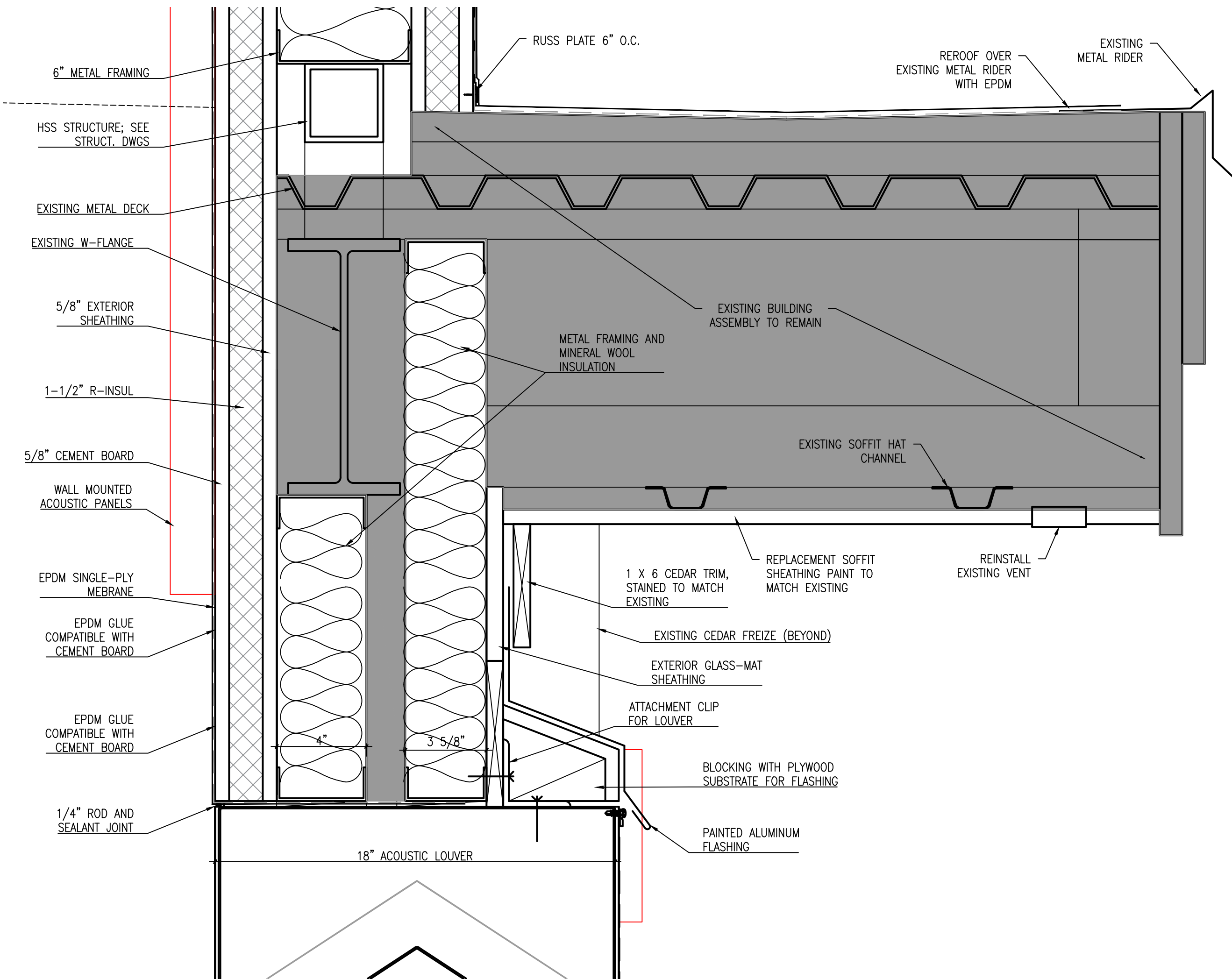
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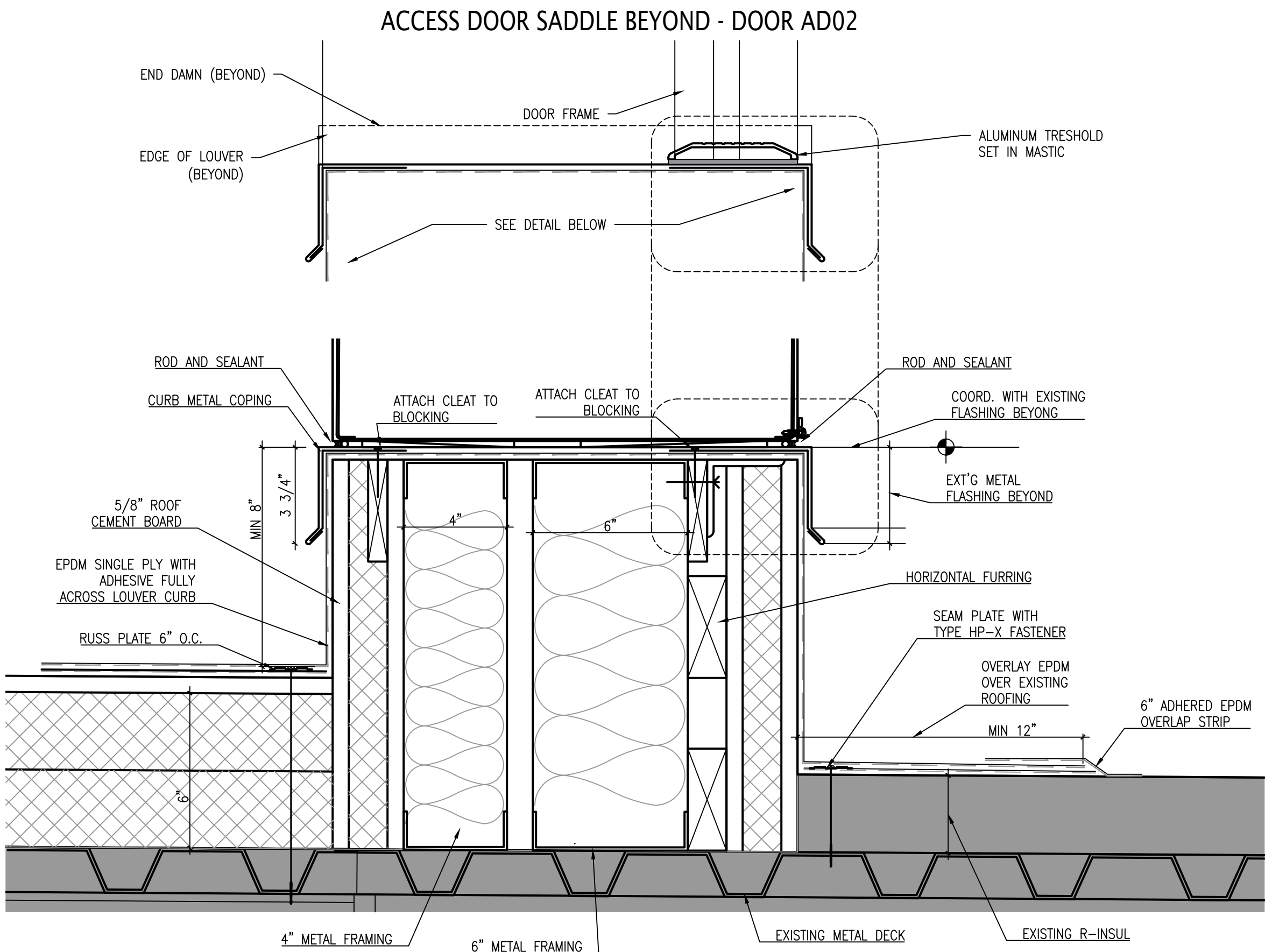
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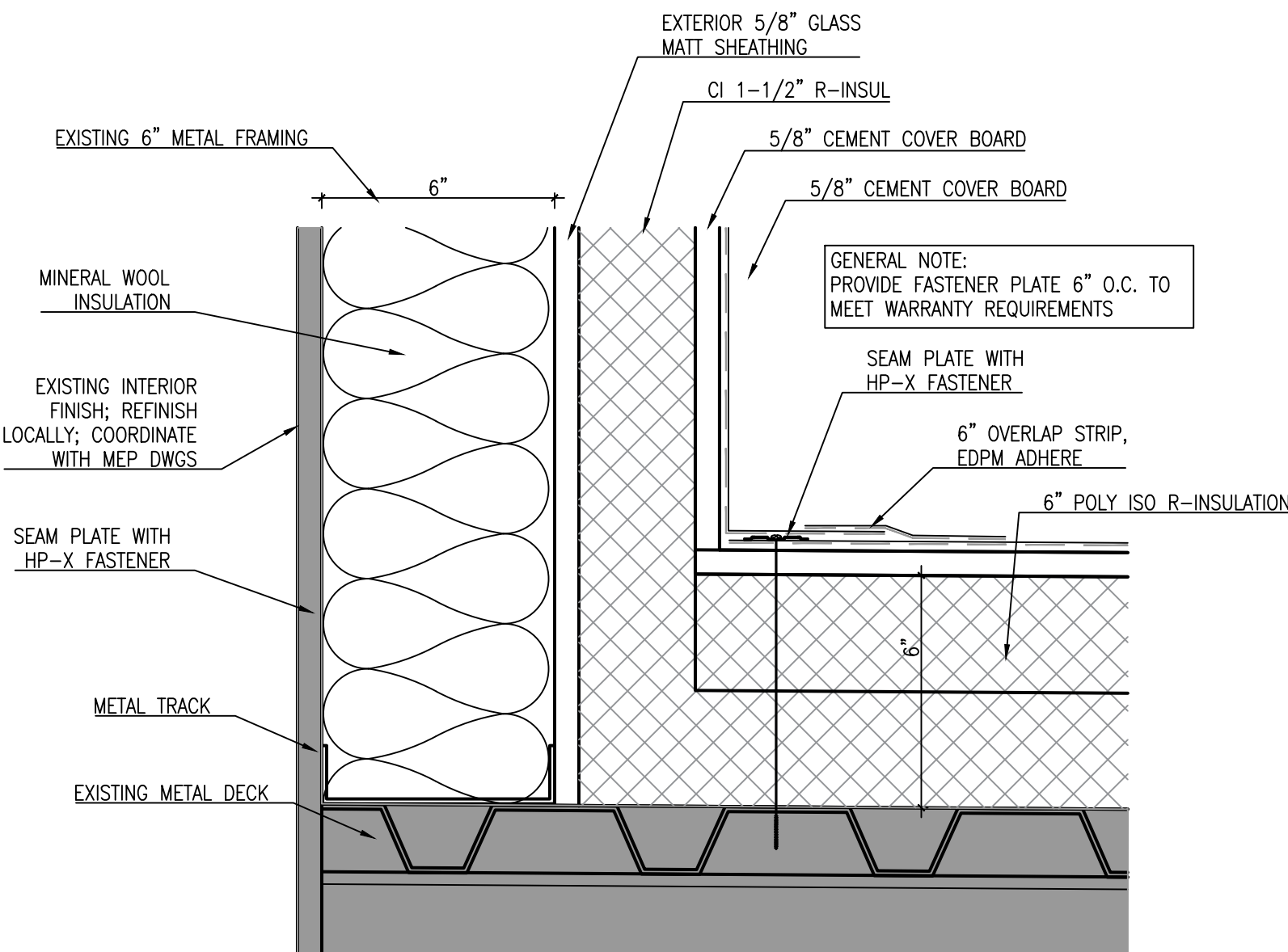
5 CONNECTION TO EXISTING ROOF DETAIL AT WEST END
3" = 1'-0"



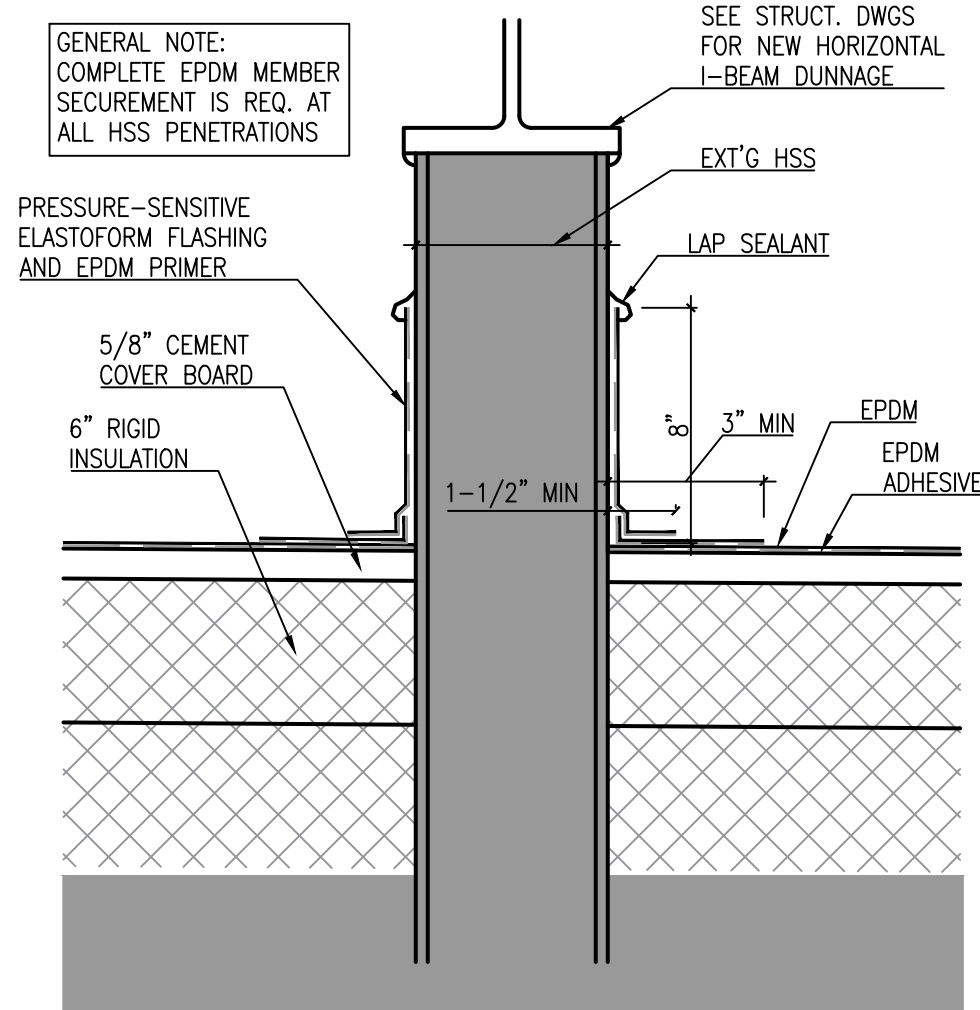
7 CONNECTION TO EXISTING ROOF DETAIL AT EAST END
3" = 1'-0"



9 LOUVER CURB DETAIL
3" = 1'-0"



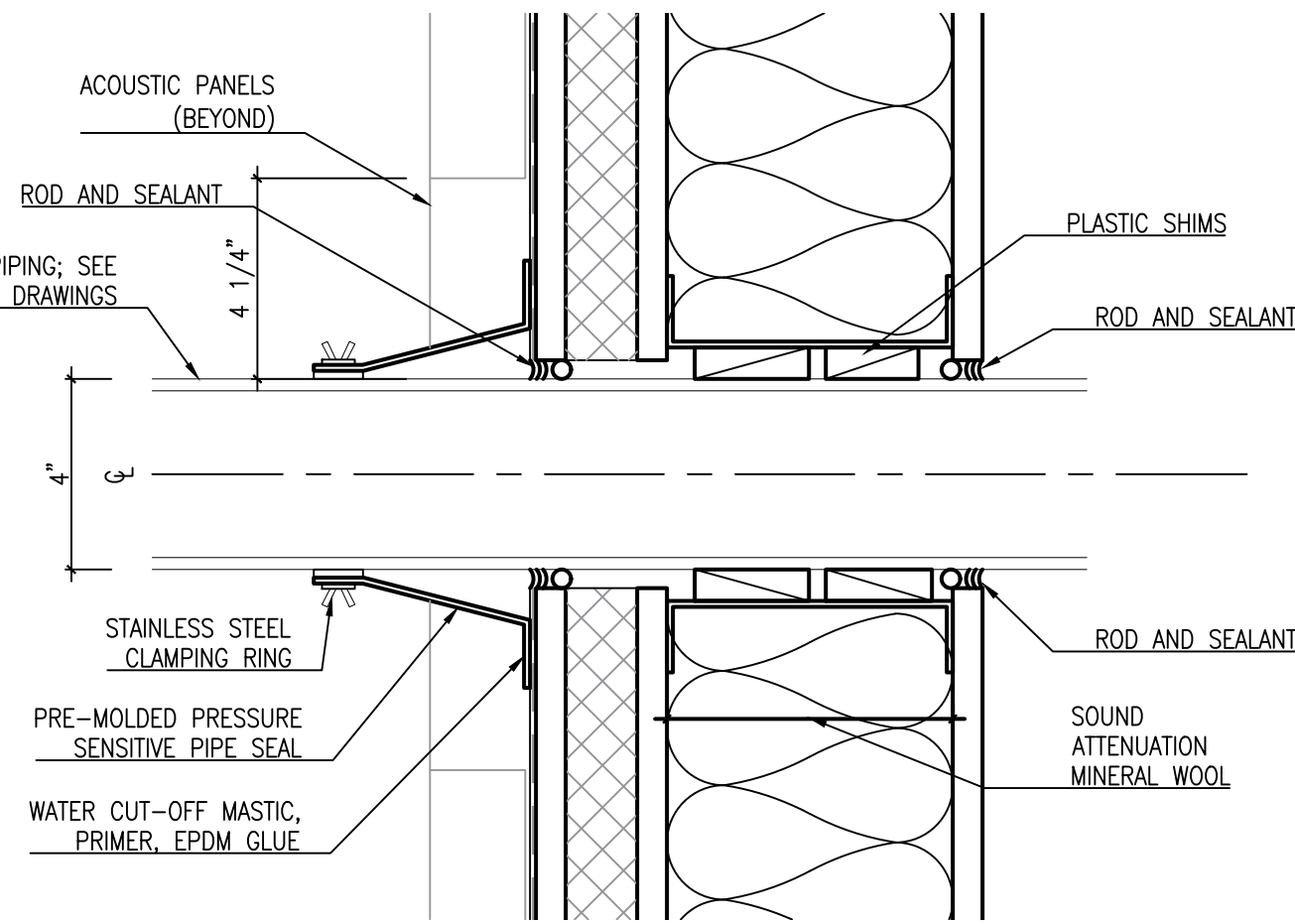
11 ANGLE CHANGE DETAIL
3" = 1'-0"



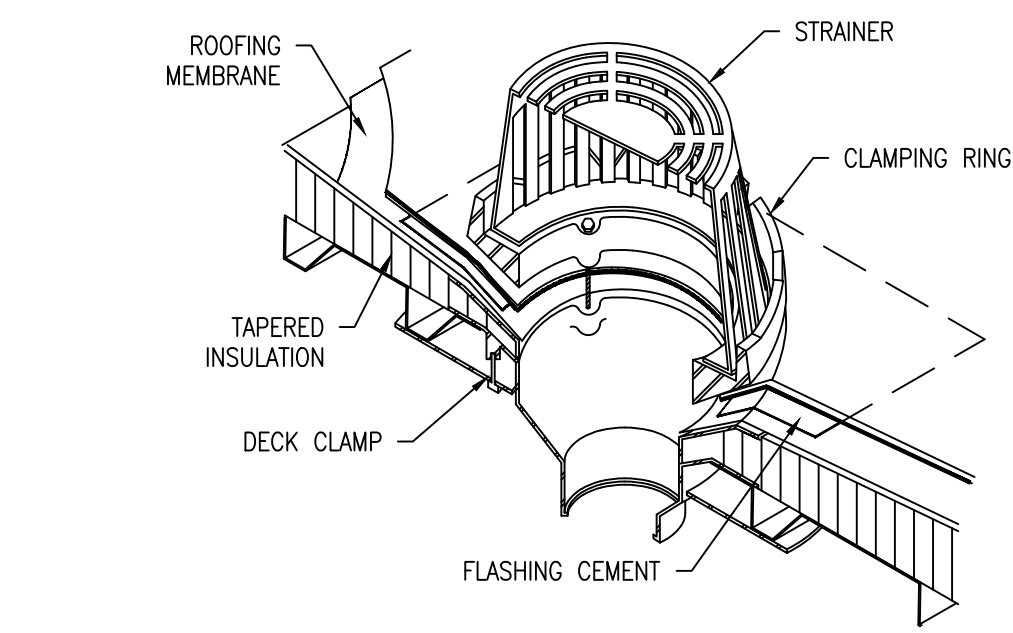
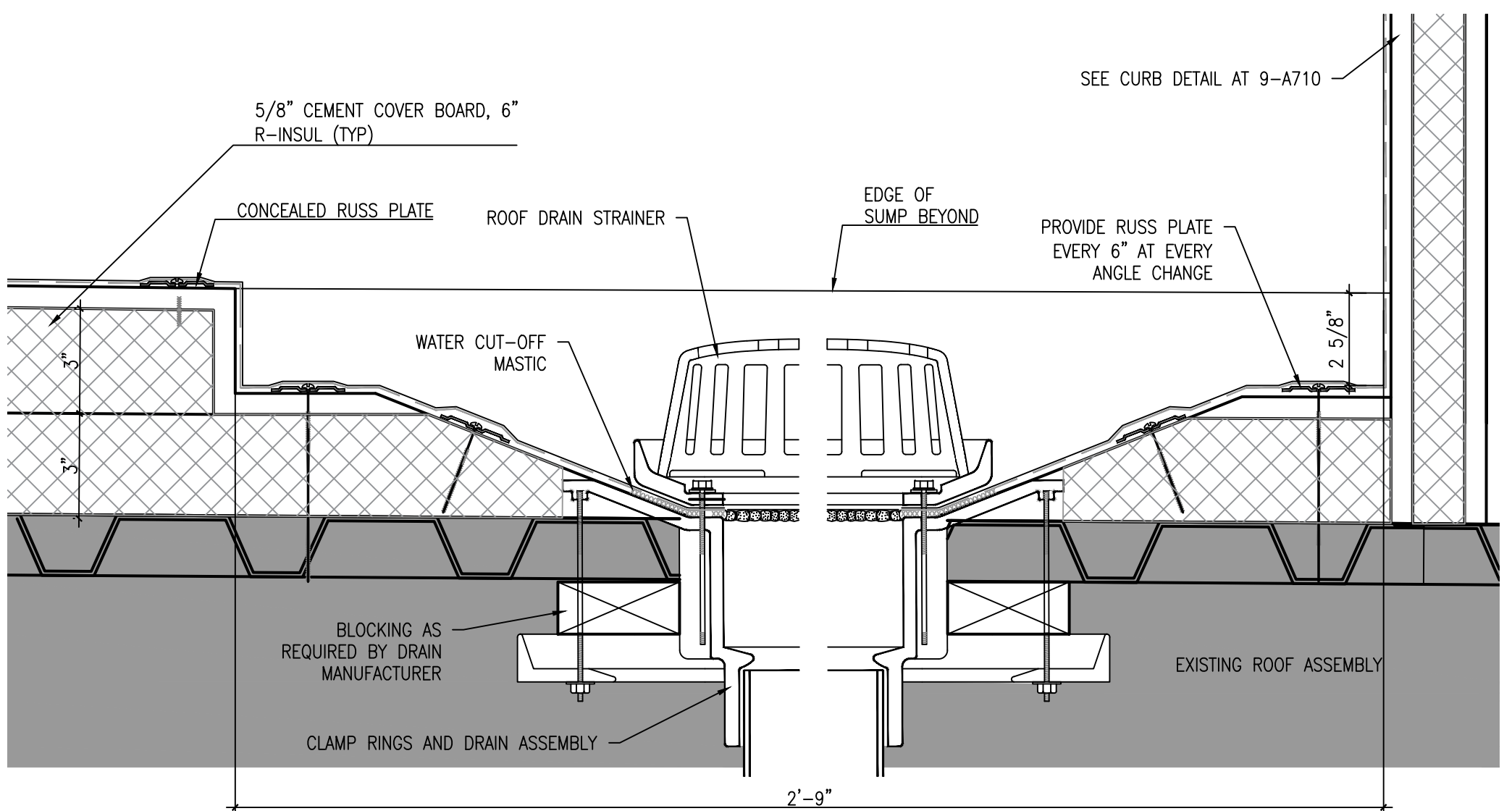
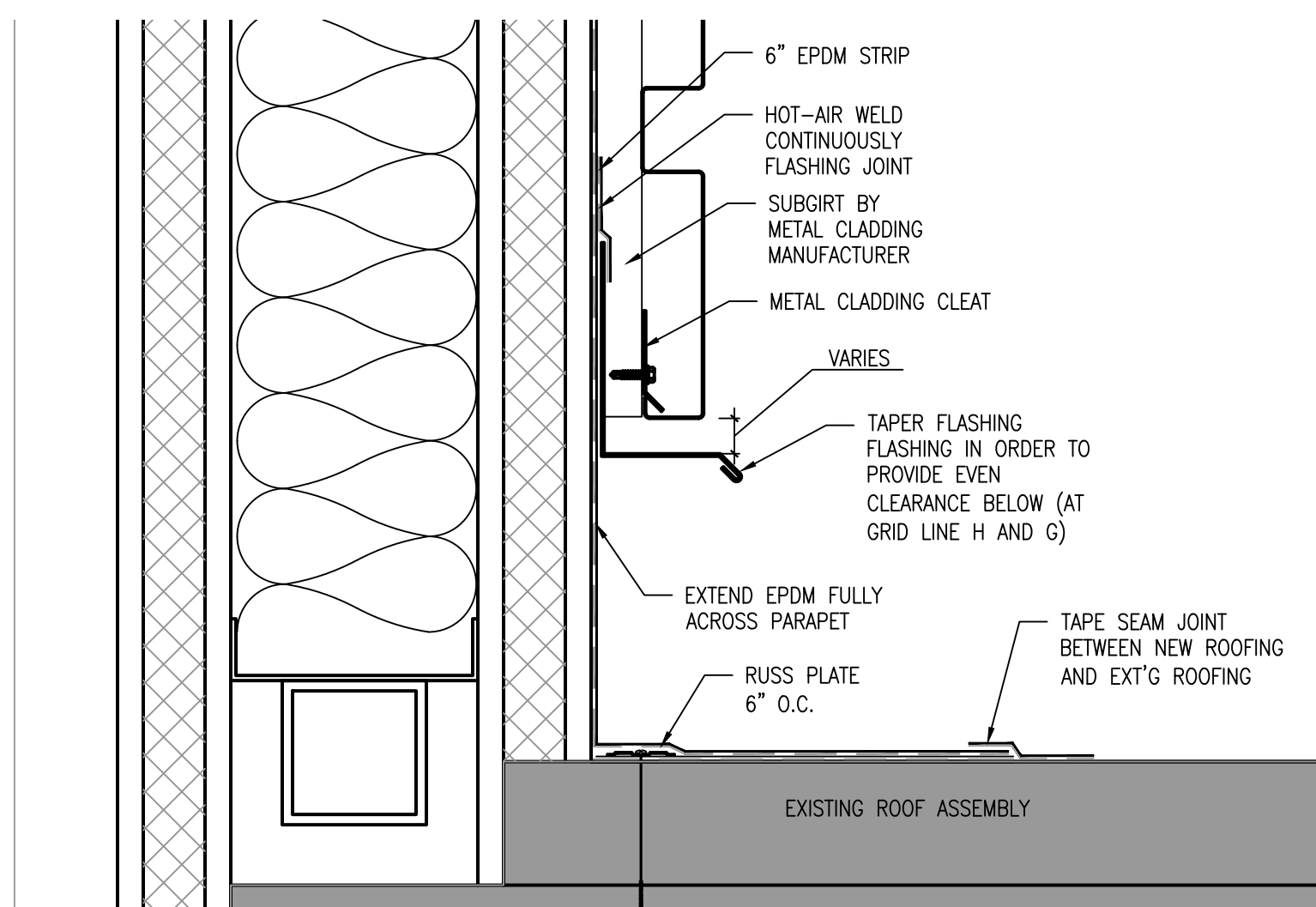
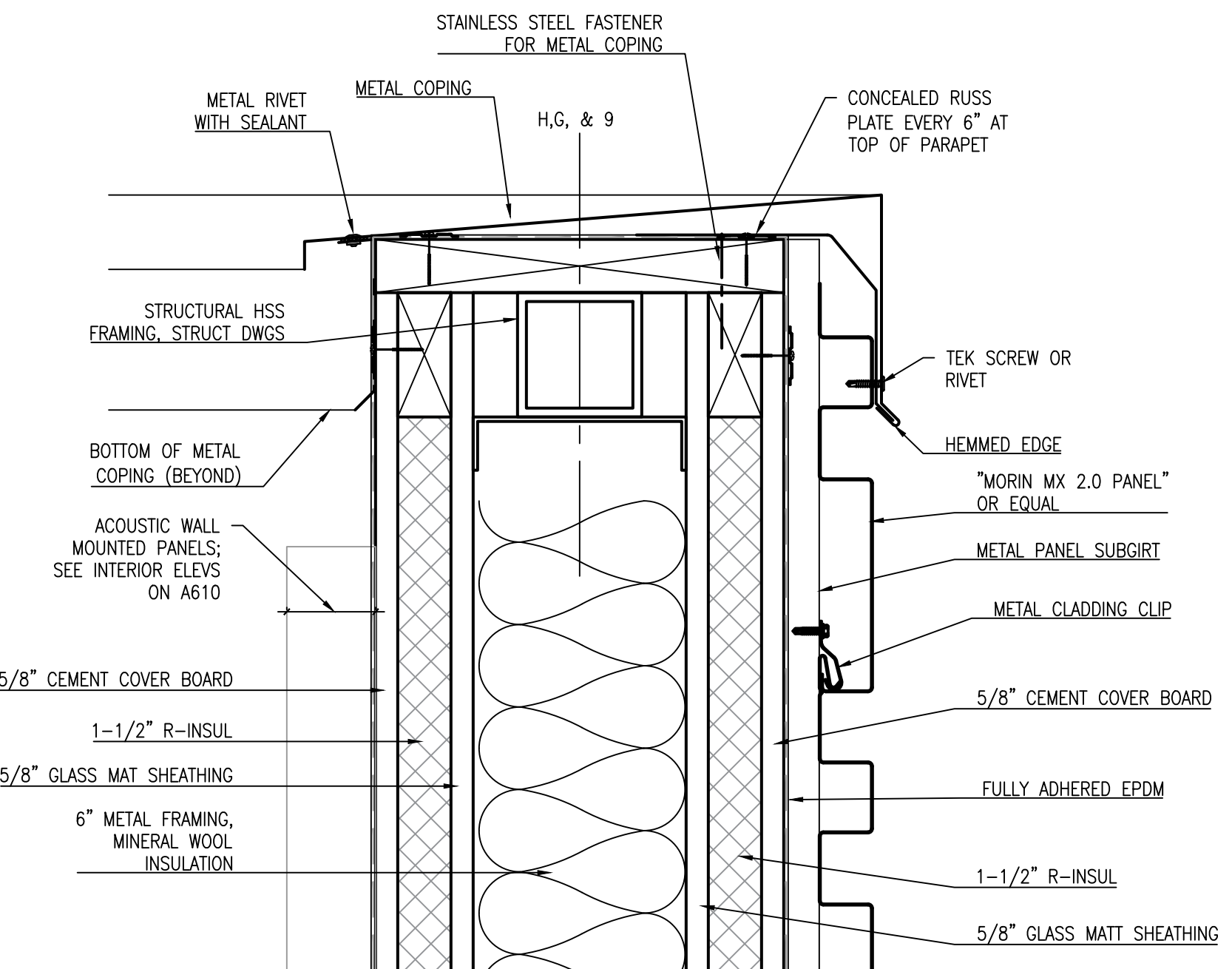
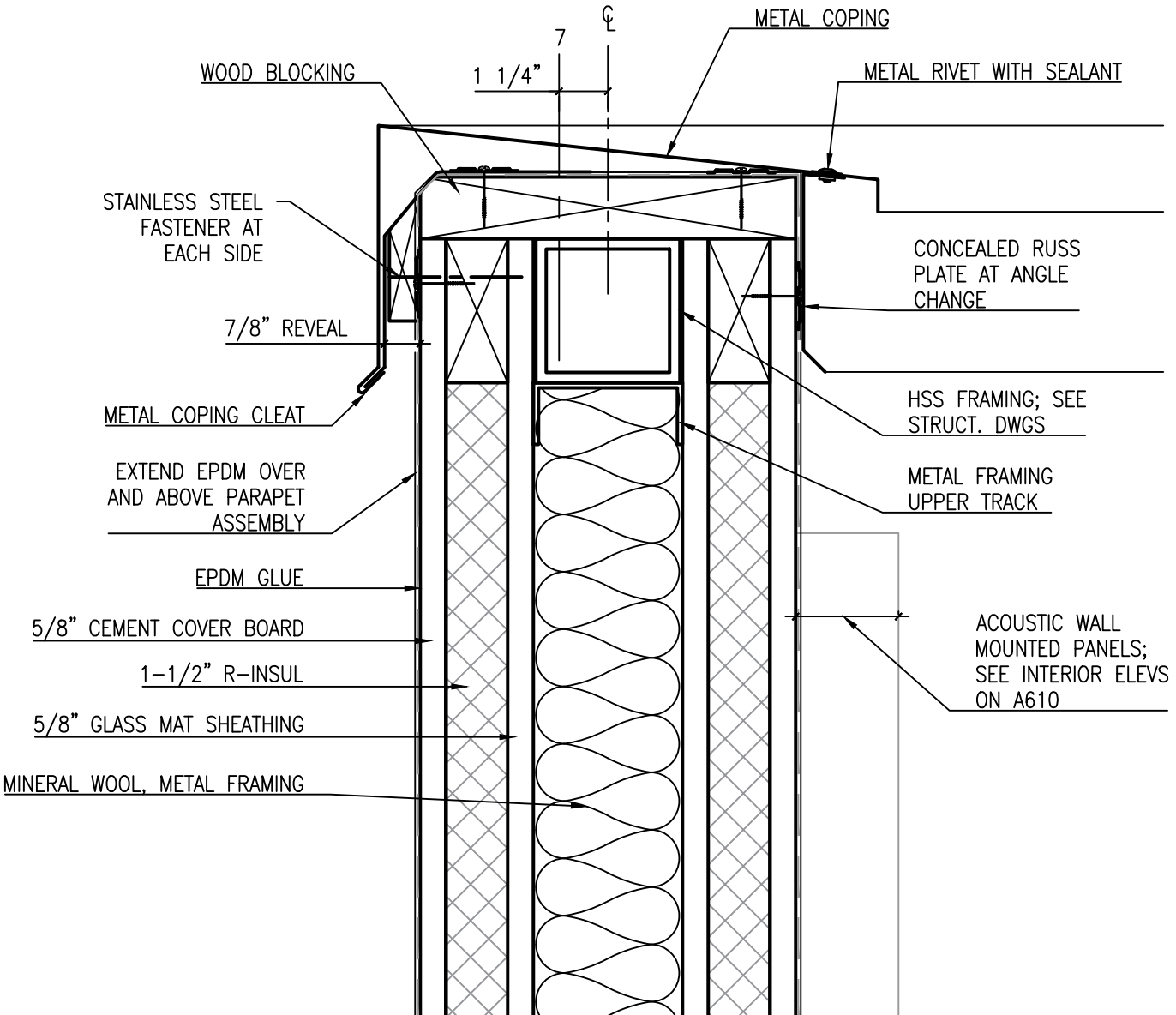
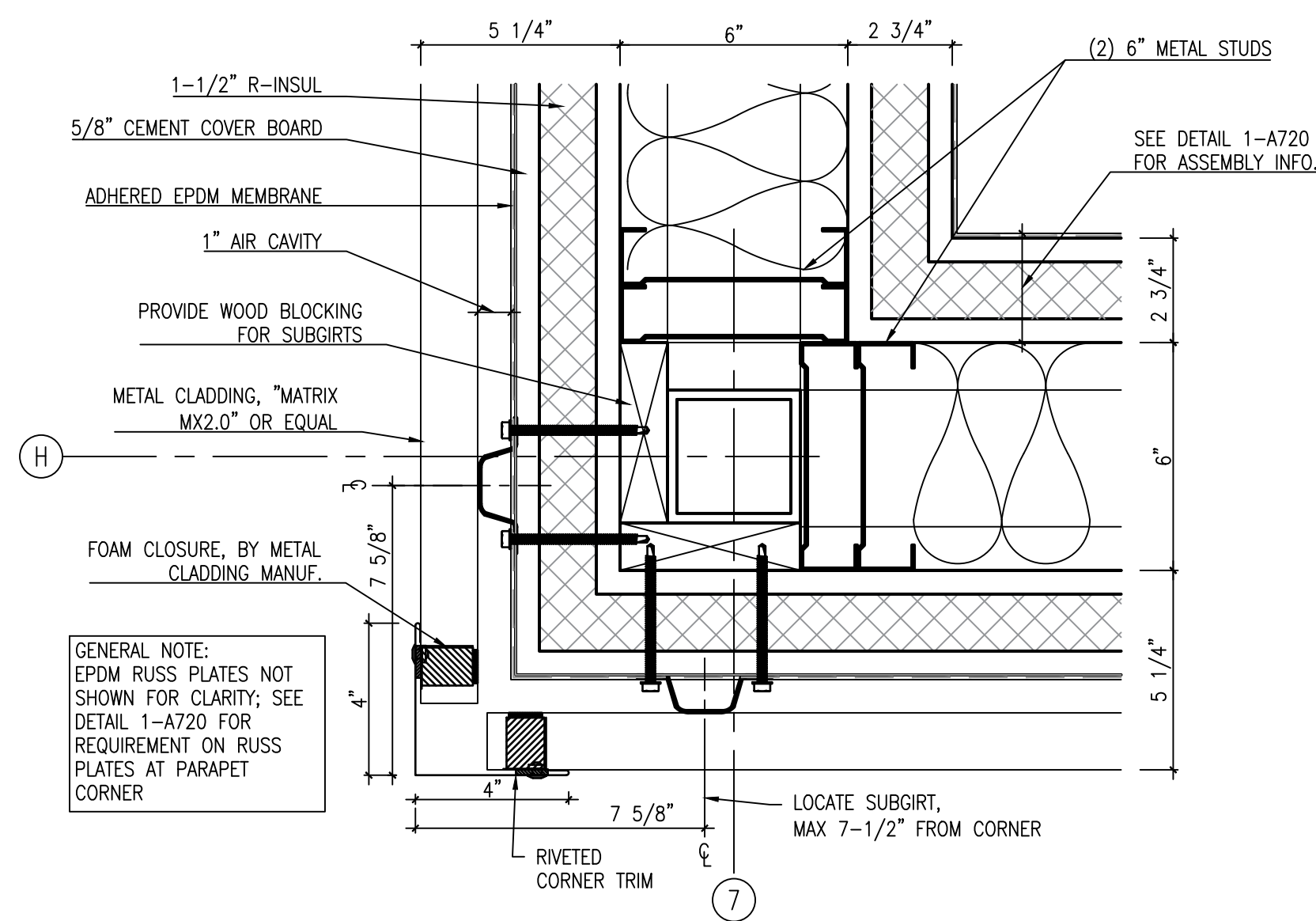
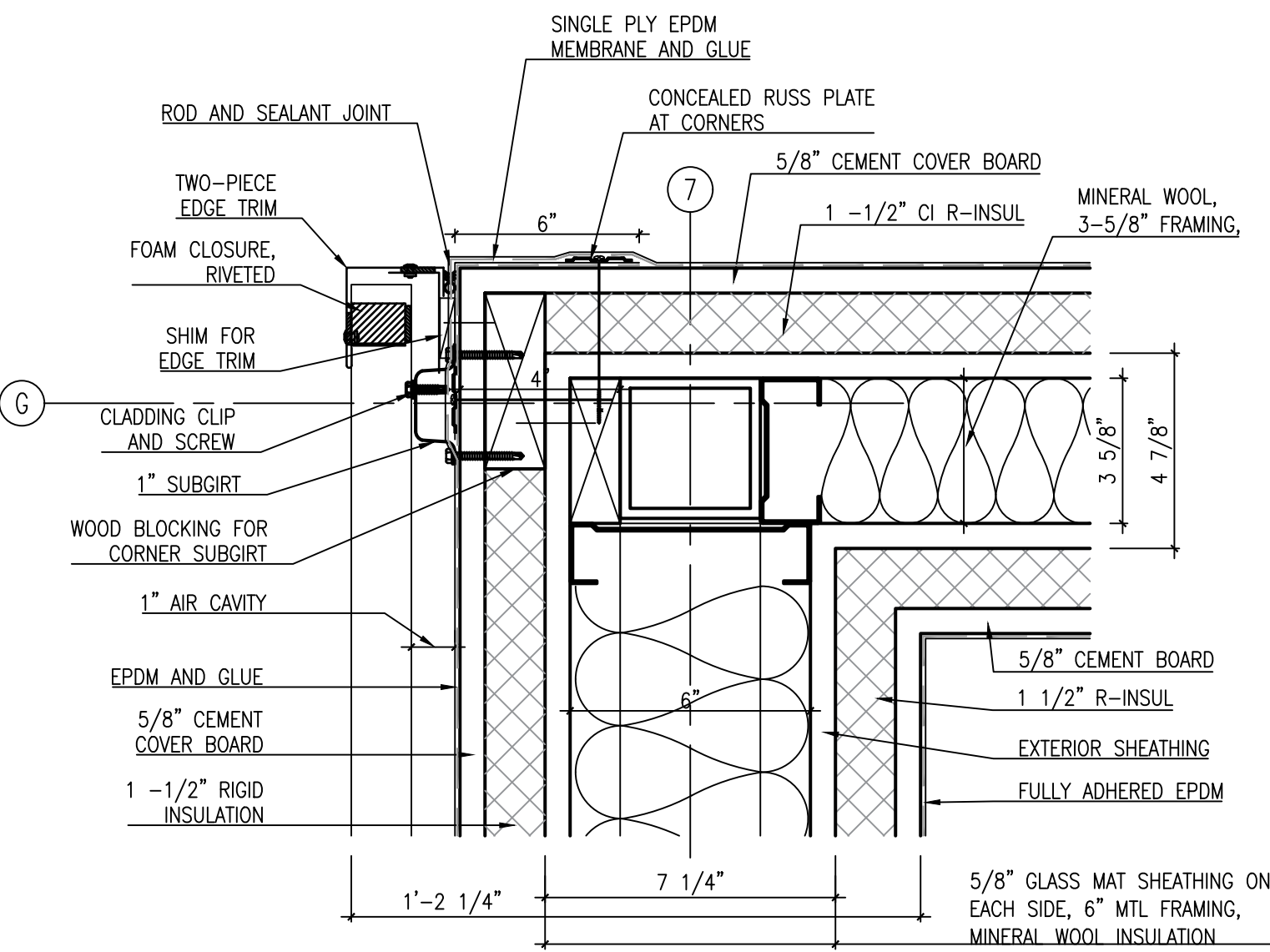
12 EXISTING DUNNAGE POST PENETRATION DETAIL
3" = 1'-0"

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one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three eighths inch = one foot
three quarters inch = one foot
one inch = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
seventeen inches = one foot
eighteen inches = one foot
nineteen inches = one foot
twenty inches = one foot
twenty one inches = one foot
twenty two inches = one foot
twenty three inches = one foot
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twenty six inches = one foot
twenty seven inches = one foot
twenty eight inches = one foot
twenty nine inches = one foot
thirty inches = one foot
thirty one inches = one foot
thirty two inches = one foot
thirty three inches = one foot
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thirty six inches = one foot
thirty seven inches = one foot
thirty eight inches = one foot
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fifty three inches = one foot
fifty four inches = one foot
fifty five inches = one foot
fifty six inches = one foot
fifty seven inches = one foot
fifty eight inches = one foot
fifty nine inches = one foot
sixty inches = one foot
sixty one inches = one foot
sixty two inches = one foot
sixty three inches = one foot
sixty four inches = one foot
sixty five inches = one foot
sixty six inches = one foot
sixty seven inches = one foot
sixty eight inches = one foot
sixty nine inches = one foot
seventy inches = one foot
seventy one inches = one foot
seventy two inches = one foot
seventy three inches = one foot
seventy four inches = one foot
seventy five inches = one foot
seventy six inches = one foot
seventy seven inches = one foot
seventy eight inches = one foot
seventy nine inches = one foot
eighty inches = one foot
eighty one inches = one foot
eighty two inches = one foot
eighty three inches = one foot
eighty four inches = one foot
eighty five inches = one foot
eighty six inches = one foot
eighty seven inches = one foot
eighty eight inches = one foot
eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot



10 UNISTRUT DETAIL FOR 4" PIPE
3" = 1'-0"



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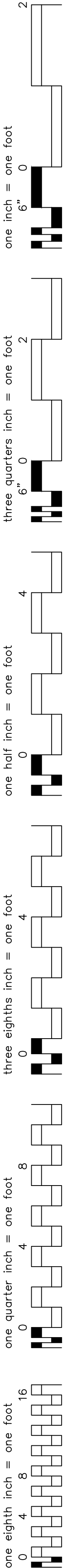
MISCELLANEOUS DETAILS AND METAL PANEL SIDING

PROJECT NO.: 2494-00 SCALE: AS NOTED

DRAWING NO.:

A720

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GENERAL NOTES

- ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE NEW YORK STATE BUILDING CODE. ALL GOVERNING STANDARDS LISTED IN THESE NOTES SHALL BE THE EDITION REFERENCED IN THIS GOVERNING CODE.
- CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING AND SHEETING AND SHALL MAKE SAFE ALL FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION, HIRED BY THE CONTRACTOR, WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.
- DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS FOR GUIDANCE.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
 - AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
 - AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
 - AMERICAN WELDING SOCIETY (AWS D1.1) "STRUCTURAL WELDING CODE – STEEL".
 - RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - WIDE FLANGE BEAMS, COLUMNS AND STRUCTURAL TEES: ASTM A992.
 - HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C.
 - STRUCTURAL PIPE SECTIONS: ASTM A53, GRADE B.
 - CHANNELS, ANGLES AND PLATES: ASTM A36 UNLESS OTHERWISE NOTED.
 - BOLTED CONNECTIONS SHALL BE PER ASTM F3125. GRADES ARE TO BE SELECTED AS FOLLOWS:
 - STANDARD BEAM TO BEAM/GIRDER: ASTM F3125, GRADES A325, F1852, A490 OR F2280 BOLTS IN SNUG-TIGHTENED JOINTS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS).
 - BEAM/GIRDER TO COLUMN CONNECTIONS, COLUMN SPLICES AND BOLTS EXPERIENCING TENSION LOADS (UNLESS OVERSIZED OR SLOTTED HOLES ARE USED, IN WHICH CASE SLIP-CRITICAL JOINTS SHALL BE USED): ASTM F3125, GRADES A325, F1852, A490 OR F2280 BOLTS IN PRETENSIONED JOINTS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS).
 - MOMENT CONNECTIONS AND BRACED FRAME CONNECTIONS: ASTM F3125, GRADES A325, F1852, A490 OR F2280 BOLTS IN SLIP CRITICAL JOINTS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS). FAYING SURFACES SHALL BE CLASS A UNLESS OTHERWISE NOTED.
 - PER AISC 341, ALL BOLTS SHALL BE INSTALLED AS PRETENSIONED HIGH STRENGTH BOLTS AND MEET THE REQUIREMENTS FOR SURFACE PREPARATION FOR SLIP CRITICAL CONNECTIONS WITH CLASS A SLIP COEFFICIENT OR HIGHER. THE AVAILABLE SHEAR STRENGTH OF BOLTED JOINTS USING STANDARD HOLES SHALL BE CALCULATED AS THAT FOR BEARING TYPE JOINTS.
- STEEL CONNECTION SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, AND SHALL BE SELECTED OR COMPLETED BY AN EXPERIENCED STEEL DETAILER, UTILIZING ASD LOADS AND PROCEDURES.
- MINIMUM WELD SIZE IS 3/4" FILLET UNLESS NOTED OTHERWISE.
- ALL BEAMS EXCEPT CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED WITH NATURAL CAMBER UP. CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED SO THAT NATURAL CAMBER RAISES CANTILEVER END.
- FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESSED WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD (IN WHICH CASE ALL BURNING OF STEEL MUST CONFORM TO THE THERMAL CUTTING REQUIREMENTS OF AISC AND AWS).
- WELDING SHALL BE PERFORMED BY CERTIFIED, AWS-QUALIFIED WELDERS. WELDING ELECTRODES FOR CARBON STEEL SHALL BE AWS E5.1, CLASS E70XX. FOR ASTM A572 GRADE 50 KSI PLATE USE ELECTRODE E7018 OR APPROVED EQUAL.
- FIELD PAINT ALL EXTERIOR EXPOSED MEMBERS WITH TNEMEC V530 OMNITHANE OR APPROVED EQUAL.
- SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.

POST-INSTALLED ADHESIVE AND MECHANICAL ANCHORS

- POST INSTALLED ANCHORAGE SHALL BE INSTALLED BY QUALIFIED PERSONNEL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGING, TO INTACT BASE MATERIAL. INSTALLATION OF ANCHORS SHALL BE CARRIED OUT BY AN INSTALLER TRAINED TO INSTALL THE SPECIFIED ANCHORS. NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION IF BASE MATERIAL CONDITION DEVIATES FROM STRUCTURAL DRAWINGS OR ASSUMPTIONS AND CONDITIONS OF THE MPII. ALL HOLES SHALL BE DRY AND HAMMER DRILLED UNLESS OTHERWISE NOTED, AND ALL CONCRETE BASE MATERIAL TO RECEIVE ADHESIVE ANCHORS SHALL HAVE A MINIMUM AGE OF 21 DAYS.
- INSTALLATION OF ADHESIVE ANCHORS IN A HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND SUPPORTING A SUSTAINED TENSION LOAD SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL. PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS, PROVIDE OWNER AND ENGINEER OF RECORD WITH DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS SUPPORTING SUSTAINED TENSION LOADS ARE TRAINED AND CERTIFIED.
 - A. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE PISTON PLUG SYSTEM SPECIFIED BY THE MPII AND PRODUCED BY THE CORRESPONDING MANUFACTURER FOR THE ANCHOR SYSTEM BEING INSTALLED.
- EXISTING REINFORCING BARS IN THE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. REINFORCING BARS SHALL NOT BE CUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. UNLESS NOTED ON THE DRAWINGS THAT THE EXISTING REBARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS BY A MEANS APPROVED BY THE ENGINEER OF RECORD.
- ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS, PROXIMITY OF ANCHORS TO EDGE OF CONCRETE, AND EMBEDMENT DEPTH INTO THE SUBSTRATE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING, EDGE CLEARANCES, AND EMBEDMENT DEPTHS INDICATED ON THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, POST INSTALLED ANCHORAGE SHALL BE ADHESIVE TYPE HILTI HIT-HY 200-R INTO CONCRETE OR HILTI HIT-HY 270 INTO BRICK MASONRY, GROUT FILLED CMU OR UNGROUTED CMU BASE MATERIAL. PROVIDE MESH SCREEN IN UNGROUTED CMU, UNREINFORCED MASONRY CONSTRUCTION, AND BRICK MASONRY WITH HOLES OR VOIDS.
- SUBSTITUTION REQUESTS FOR ALTERNATE ANCHORAGE PRODUCTS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO USE. THIS SHALL INCLUDE MANUFACTURER PRODUCT DATA AND CALCULATIONS DEMONSTRATING THAT THE PROPOSED SUBSTITUTE CAN ACHIEVE THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY THE MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE ENGINEER OF RECORD. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ES EVALUATION REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE, SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF MPII. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE AND MUST PROVIDE INFORMATION ON THESE ITEMS. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE.

SPECIAL INSPECTIONS

- INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
 - INSPECTION OF FABRICATORS (IBC 1704.2.5)
 - STEEL CONSTRUCTION (IBC 1705.2)
 - STRUCTURAL STEEL (IBC 1705.2.1)
 - STRUCTURAL STEEL WELDING (AISC 360, AWD D1.1)
 - HIGH STRENGTH BOLTS (AISC 360)
- STRUCTURAL OBSERVATIONS REQUIRED BY THE LOCAL JURISDICTION AND IBC 1704.5 SHALL BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL PROVIDED BY THE OWNER. STRUCTURAL OBSERVATIONS SHALL BE THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.
- TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.

WIND LOAD ON CHILLER: 34 PSF
WIND LOAD ON WALL PANELS: 34 PSF
ROOF SNOW LOAD: 30 PSF
ROOF LIVE LOAD: 30 PSF



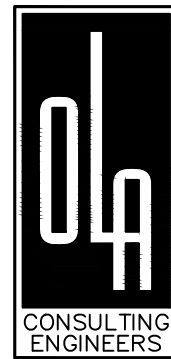
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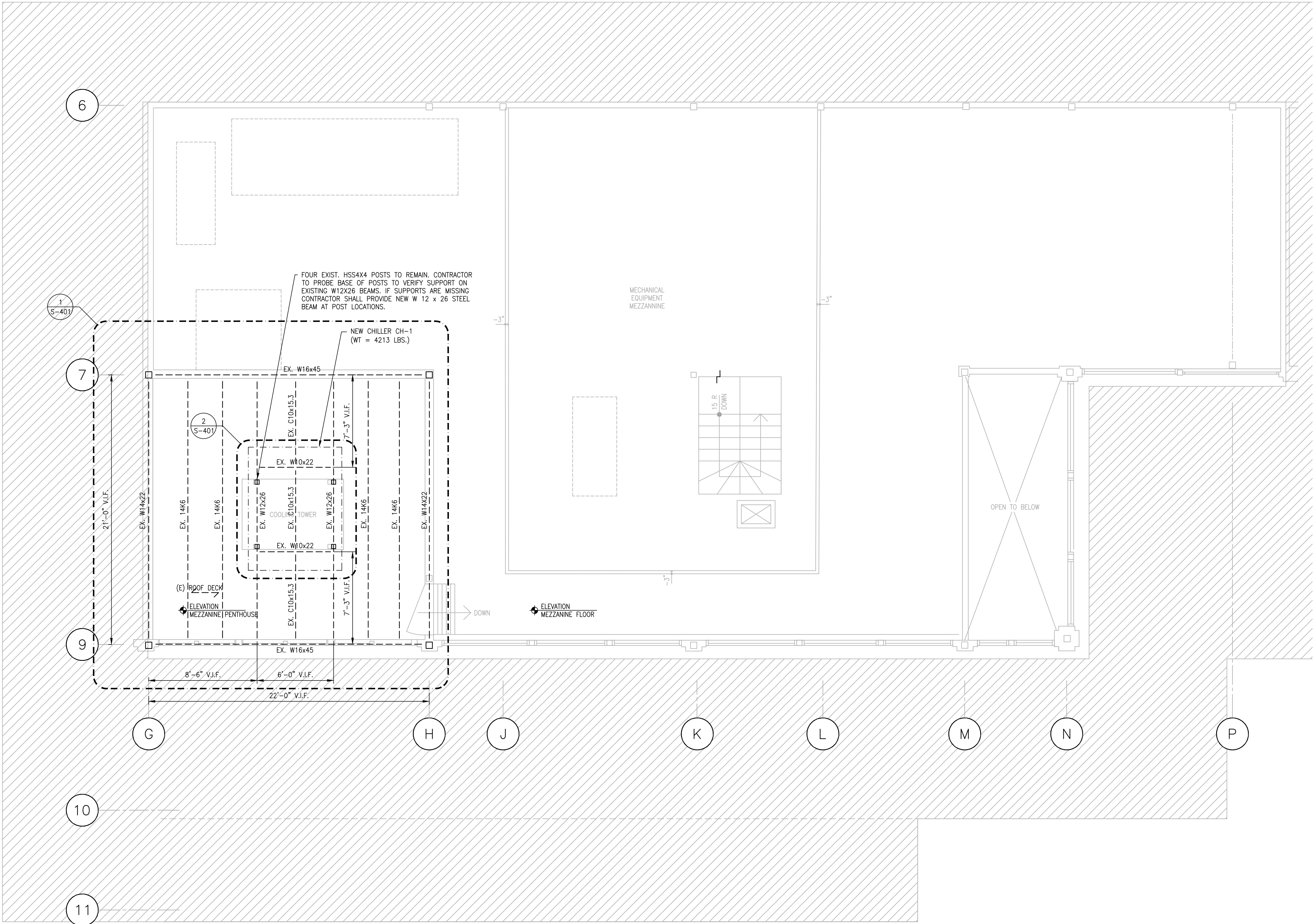
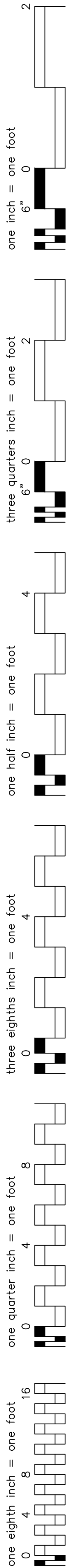
GENERAL NOTES

PROJECT NO.: 2494-00 SCALE: AS NOTED

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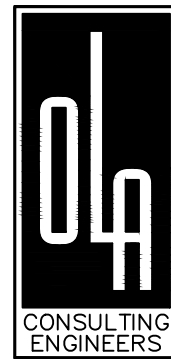
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CHILLER PIT FRAMING

PROJECT NO.: 2494-00 SCALE: AS NOTED

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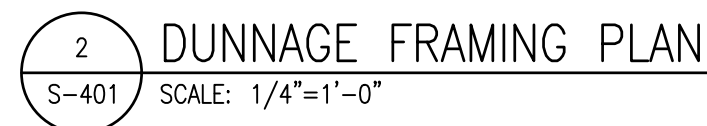
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CHILLER FRAMING PLAN AND SECTIONS

PROJECT NO.:	2494-00	SCALE:	AS NOTED
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DRAWING NO.:

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one eighth inch = one foot






































































































one quarter inch = one foot

three eighths inch = one foot

one half inch = one foot

three quarters inch = one foot

one inch = one foot

SYMBOL & ABBREVIATIONS								
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
-	AC-	AIR CONDITIONING UNIT		-	FILTER DRYER		SD/AD	SMOKE DAMPER W/ ACCESS DOOR
-	ACC-	AIR COOLED CONDENSING UNIT		-	FILTER		CFSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
-	AD	ACCESS DOOR		-	BALL VALVE		VD	VOLUME DAMPER
-	AHU-	AIR HANDLING UNIT		-	PRESSURE GAGE		AL	ACOUSTIC LINING
-	AP	ACCESS PANEL		-	TERMOMETER		-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
-	BDD	BACKDRAFT DAMPER		-	CHECK VALVE		FC	FLEXIBLE CONNECTION
-	CP-	CONDENSATE PUMP		-	UNION		-	ALUMINUM DUCT
-	DIA. OR Ø	DIAMETER		EX.	EXISTING TO REMAIN		-	EQUIPMENT TAG
-	DX	DIRECT EXPANSION		REL.	REMOVE AND RELOCATE		-	AIR OUTLET CFM TAG
-	EA	EXHAUST AIR		NEW	NEW WORK		-	AIR CONDITIONING UNIT
-	EAT	ENTERING AIR TEMPERATURE		DEM.	EXISTING TO BE REMOVED		-	AIR COOLED CONDENER(ING) UNIT
-	EF-	EXHAUST FAN		-	PIPE DEMOLITION		-	AIR HANDLING UNIT
-	EL	ELEVATION		-	PIPE DEMOLITION		-	CEILING DIFFUSER
-	ER	EXHAUST REGISTER		-	CHILLED WATER SUPPLY		-	CHILLER
-	ESP	EXTERNAL STATIC PRESSURE		-	CHILLED WATER RETURN		-	CONDENSATE PUMP
-	EWT	ENTERING WATER TEMPERATURE		-	DRAIN		-	EXHAUST FAN
-	GPM	GALLONS PER MINUTE		-	DUAL TEMPERATURE SUPPLY		-	GENERAL EXHAUST FAN
-	HP	HORSE POWER		-	DUAL TEMPERATURE RETURN		-	HEAT EXCHANGER
-	HV-	HEATING AND VENTILATING UNIT		-	HOT WATER SUPPLY		-	LOUVER
-	LAT	LEAVING AIR TEMPERATURE		-	HOT WATER RETURN		-	PUMP
-	LWT	LEAVING WATER TEMPERATURE		-	PUMP DISCHARGE, CONDENSATE		-	RETURN FAN
-	MER	MECHANICAL EQUIPMENT ROOM		-	REFRIGERANT LIQUID		-	REHEAT COIL
-	OAI	OUTSIDE AIR INTAKE		-	REFRIGERANT SUCTION		-	RETURN REGISTER
-	RA	RETURN AIR		-	REFRIGERANT HOT GAS		-	SUPPLY REGISTER
-	RF-	RETURN FAN		-	THERMOSTAT		-	TOILET EXHAUST FAN
-	SA	SUPPLY AIR		-	HUMIDISTAT		-	VARIABLE AIR VOLUME BOX
-	SP	STATIC PRESSURE		-	MOTORIZED DAMPER			
-	TD	TRANSFER DUCT		-	SMOKE DETECTOR			
-	TDH	TOTAL DYNAMIC HEAD		-	DOOR UNDER CUT		-	SECTION CALLOUT
-	TF-	TRANSFER FAN		-	DOOR LOUVER			
-	TSP	TOTAL STATIC PRESSURE		-	AIR INTO REGISTER		-	DETAIL CALLOUT
-	TYP.	TYPICAL		-	SPEED CONTROLLER			
-	U.O.N.	UNLESS OTHERWISE NOTED		-	POINT OF CONNECTION DISCONNECTION			
	-	3-WAY VALVE		TR	TOP REGISTER SUPPLY			
	-	FLEXIBLE CONNECTION		TR	TOP REGISTER RETURN			
	-	2-WAY VALVE		P-1	PUMP			
	-	PLUG VALVE		SR	SUPPLY REGISTER			
	-	LOCK SHIELD VALVE		RR/RG	RETURN REGISTER/GRILLE			
	-	GATE VALVE		-	SUPPLY DUCT UP			
	-	GLOBE VALVE		-	SUPPLY DUCT DOWN			
	-	TEE DOWN		-	RETURN DUCT UP			
	-	ELBOW DOWN		-	RETURN DUCT DOWN			
	-	TEE UP		-	TRANSITION FROM SQUARE TO ROUND DUCT			
	-	ELBOW UP		-	TRANSITION			
	-	STRAINER		-	DUCT DROP			
	-	BASKET STRAINER		-	DUCT RISE			
	-	PRESSURE REDUCING VALVE		-	SQUARE VANED ELBOW			
	-	FLOW ARROW		-	DUCT RISE			
	-	BUTTERFLY VALVE		-	DUCT DROP			
	-	BALANCING VALVE		-	DUCT TRANSITION			
	-	MANUAL AIR VENT		-	ALUMINUM DUCT			
	-	SOLENOID VALVE		AL	ACOUSTIC LINING			
	-	MOTORIZED VALVE		FD/AD	FIRE DAMPER W/ ACCESS DOOR			

GENERAL NOTES		
1.	CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.	
2.	THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.	
3.	LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. & WITH ARCHITECTURAL DRAWINGS.	
4.	THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.	
5.	THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, ETC.	
6.	ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.	
7.	WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL HVAC EQUIPMENT. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.	
8.	THE OWNER'S PERMANENT HVAC EQUIPMENT (EXISTING / NEW) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, VENTILATION, OR ANY OTHER PURPOSE. IF TEMPORARY HEATING, COOLING, VENTILATION, OR AIRFLOW IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT THEIR OWN EXPENSE.	
9.	WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.	
10.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.	
11.	THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION CONTROL CONDUITS, AND PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE MECHANICAL WORK.	
12.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING OF ALL EXISTING SUPPLY AIR DUCTWORK ON THE FIRST, SECOND, & THIRD FLOORS WITHIN THE PROJECT AREA.	
13.	THE MECHANICAL CONTRACTOR SHALL OBTAIN PRICING FROM "WESTROCK MECHANICAL CORP." PERFORMING THE AUTOMATIC TEMPERATURE CONTROLS AND BUILDING AUTOMATION SYSTEM INTEGRATION WORK AND INCLUDE THIS COST IN THEIR BID	
19.	ALL EQUIPMENT, MATERIALS, PRODUCTS, ETC., USED/INSTALLED ABOVE THE CEILING SHALL BE PLENUM RATED.	
DEFINITION OF TERMS		
1.)	WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT PEARL RIVER LIBRARY IS INTENDED.	
2.)	WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.	
3.)	"WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.	
4.)	"FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.	
5.)	"INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.	
6.)	"PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.	
7.)	THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:	
A.)	"NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.	
B.)	"MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.	
C.)	"AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.	
D.)	"REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.	

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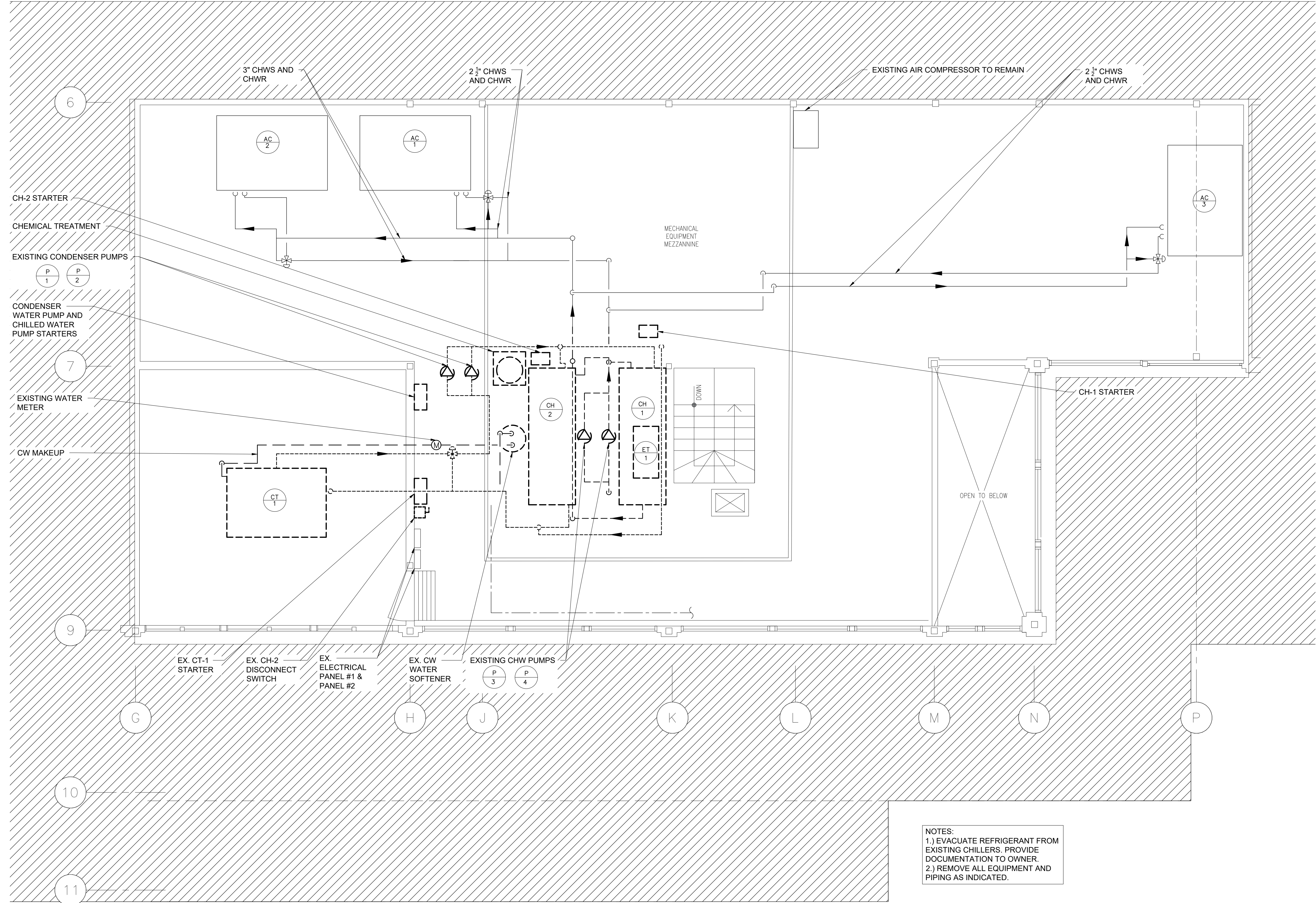
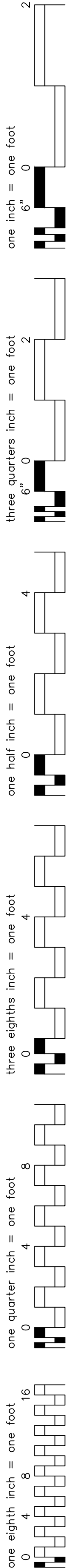
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50 - 03 - 08 - 03 - 6 - 005 - 004

MECHANICAL SYMBOLS & ABBREVIATIONS

PROJECT NO.:	2494-00	SCALE:	AS NOTED
DRAWING NO.:			

M-0.1

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1 MECHANICAL MEZZANINE PENTHOUSE DEMO PLAN
1/4" = 1'-0"

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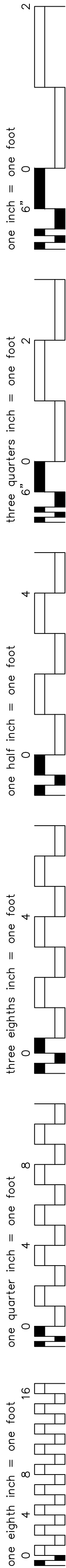
MECHANICAL MEZZANINE PENTHOUSE DEMO PLAN

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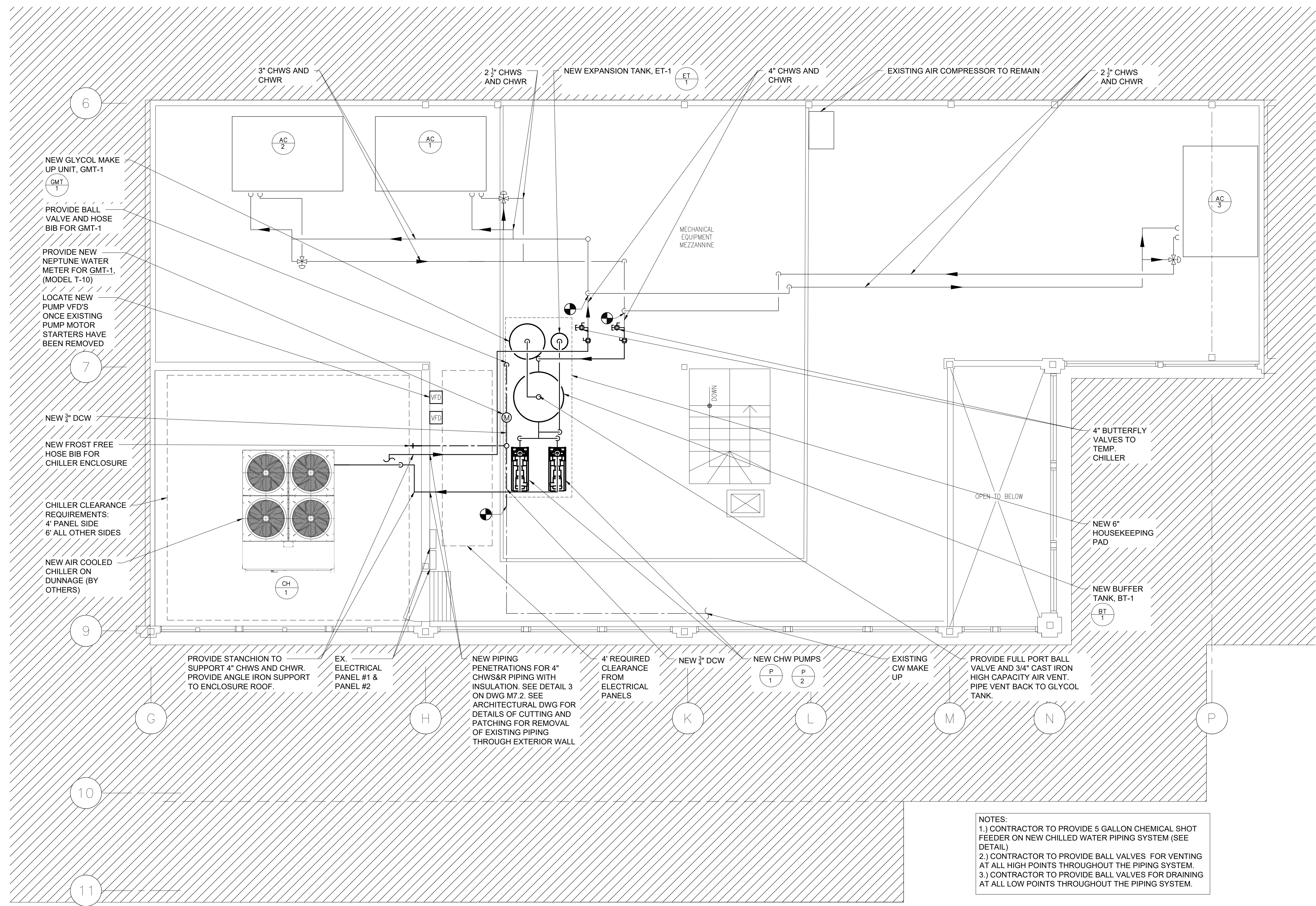
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1 MECHANICAL MEZZANINE PENTHOUSE NEW WORK PLAN
1/4" = 1'-0"



NOTES:
1.) CONTRACTOR TO PROVIDE 5 GALLON CHEMICAL SHOT FEEDER ON NEW CHILLED WATER PIPING SYSTEM (SEE DETAIL)
2.) CONTRACTOR TO PROVIDE BALL VALVES FOR VENTING AT ALL HIGH POINTS THROUGHOUT THE PIPING SYSTEM.
3.) CONTRACTOR TO PROVIDE BALL VALVES FOR DRAINING AT ALL LOW POINTS THROUGHOUT THE PIPING SYSTEM.

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MECHANICAL MEZZANINE
PENTHOUSE NEW WORK PLAN

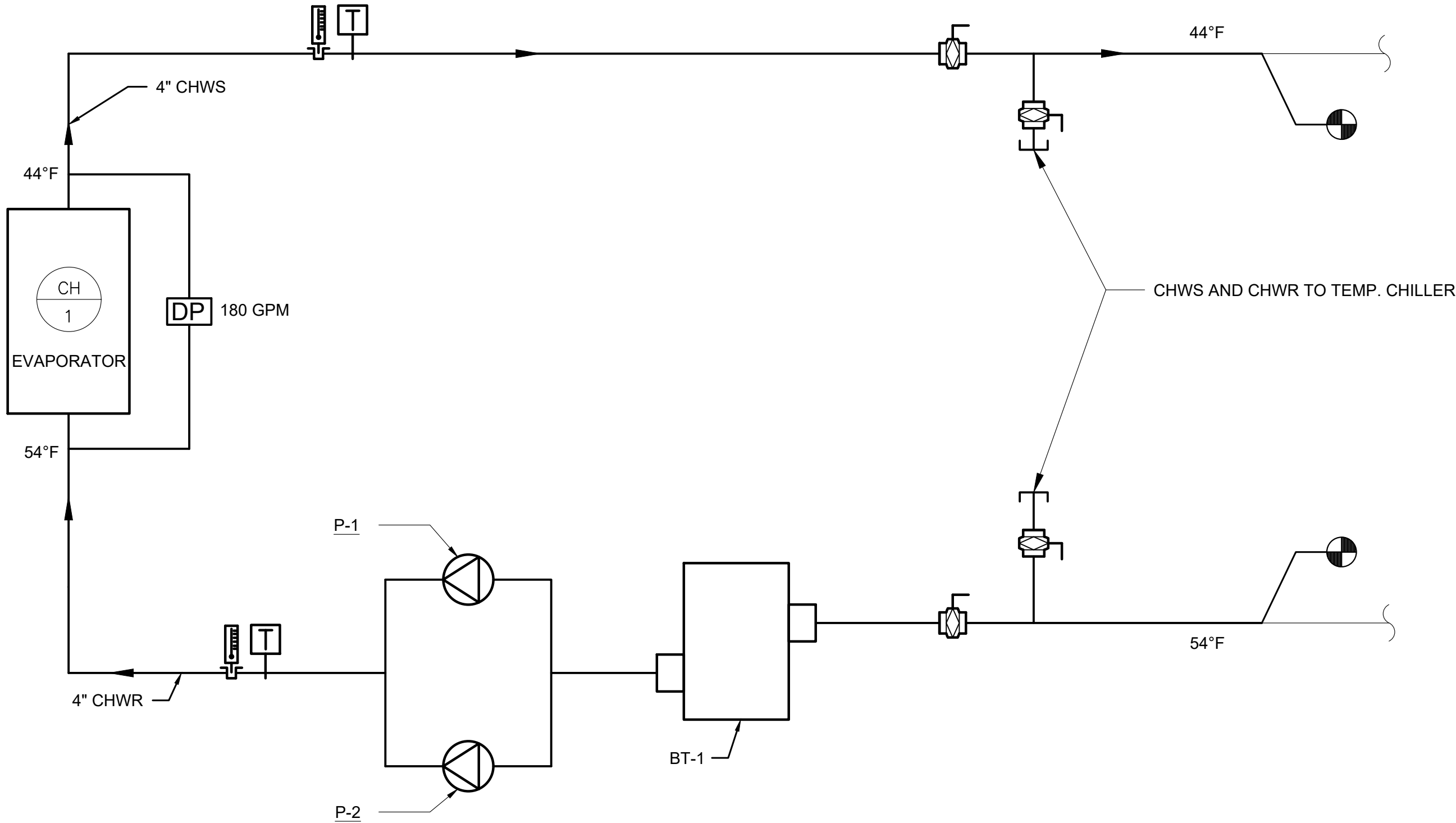
PROJECT NO.: 2494-00 SCALE: AS NOTED

DRAWING NO.:

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one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
one eighth inch = one foot
0 4 8 16
three eighths inch = one foot
0 4
one half inch = one foot
0 4
three quarters inch = one foot
0 4
one inch = one foot
0 6
2



1 CHILLED WATER SYSTEM PARTIAL SCHEMATIC
SCALE: NONE

SEQUENCE OF OPERATIONS:

CHILLED WATER PLANT

THE CHILLED WATER PLANT IS COMPRISED OF ONE AIR COOLED CHILLER. THE CHILLER ENABLES ITS ASSOCIATED CHILLED WATER PUMPS. THE BUILDING MANAGEMENT SYSTEM (BMS) CONTROLS MANY OF THE CHILLED WATER PUMPS FUNCTIONS AND SETPOINTS, AND MONITORS A NUMBER OF POINTS THROUGH THE CHILLER INTERFACES.

A.) CHILLED WATER PLANT ENABLE/ STAGING:

- 1.) THE CHILLED WATER PLANT WILL BE ENABLED THROUGH THE BMS BASED ON THE FOLLOWING CONDITIONS:
 - a.) OUTSIDE AIR TEMPERATURE > 65°F (ADJ.)
 - b.) AT LEAST ONE CHILLED WATER CONTROL VALVE FOR THE MAIN AIR HANDLING UNITS IS A MINIMUM 20% OPEN FOR 20 MINUTES (ADJ.).
- 2.) THE CHILLED WATER PLANT WILL BE DISABLED THROUGH THE BMS BASED ON THE FOLLOWING CONDITIONS:
 - a.) OUTSIDE AIR TEMPERATURE IS 5°F BELOW ENABLE SETPOINT
 - b.) ALL CHILLED WATER CONTROL VALVES FOR THE MAIN AIR HANDLING UNITS ARE LESS THAN 10% OPEN FOR 20 MINUTES (ADJ.).

B.) CHILLED WATER TEMPERATURE RESET:

- 1.) WHEN THE CHILLED WATER PLANT IS ENABLED THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT IS TO BE 44°F. ONCE THE CHILLED WATER SUPPLY TEMPERATURE REACHES SETPOINT THE RESET SEQUENCE IS TO BE ENABLED.
- 2.) THE CHILLED WATER TEMPERATURE SETPOINT TO MODULATE FROM 44°F TO 48°F.
- 3.) IF ALL OF THE CHILLED WATER CONTROL VALVES FOR THE MAIN AIR HANDLING UNITS ARE LESS THAN 50% OPEN THE CHILLED WATER SUPPLY SETPOINT IS TO BE INCREASED BY 1°F.
- 4.) IF ANY OF THE CHILLED WATER CONTROL VALVES REACH 90% OPEN THE CHILLED WATER SUPPLY SETPOINT IS TO BE REDUCED BY 1°F.
- 5.) CHILLED WATER RESET SEQUENCE TO BE DISABLED AND CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL DEFAULT TO 44°F WHEN ANY OF THE MAIN AIR HANDLING UNITS RETURN AIR HUMIDITY LEVELS EXCEEDS 65% RH. THE SEQUENCE TO BE RE-ENABLED IF ALL RETURN AIR HUMIDITY LEVELS ARE LOWER THAN 60% RH.

C.) CHILLERS (CH-1):

- 1.) WHEN ENABLED BY THE BMS CHILLER TO PERFORM ITS START UP PROCEDURE THROUGH ITS LOCAL CONTROLLER:
- 2.) WHEN DISABLED BY THE BMS CHILLER TO PERFORM IT'S SHUT DOWN PROCEDURE THROUGH ITS LOCAL CONTROLLER.
- 3.) ANY CHILLER ALARMS TO BE INDICATED AT THE BMS FRONT END. CRITICAL CHILLER ALARMS TO BE MANUALLY RESET.

D.) PRIMARY CHILLED WATER PUMP CONTROL:

- 1.) CHILLED WATER PUMPS TO BE ENABLED WHEN THE ASSOCIATED CHILLER IS ENABLED.
- 2.) THE BAS SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE CHILLERS EVAPORATOR.
- 3.) PUMP FLOW TO BE SET THROUGH THE ASSOCIATED VFD.

THIS SCHEMATIC IS TO BE THE BASIS FOR NEW / UPDATED PROJECT BMS GRAPHICS.

ALARMS:

- 1.) HIGH CHWS TEMPERATURE
- 2.) LOW CHWS TEMPERATURE
- 3.) GENERAL CHILLER ALARM
- 4.) PUMP STATUS
- 5.) PUMP VFD ALARM
- 6.) LOW CHW SYSTEM PRESSURE

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MECHANICAL CHILLER FLOW
DIAGRAM & SEQUENCE OF
OPERATIONS

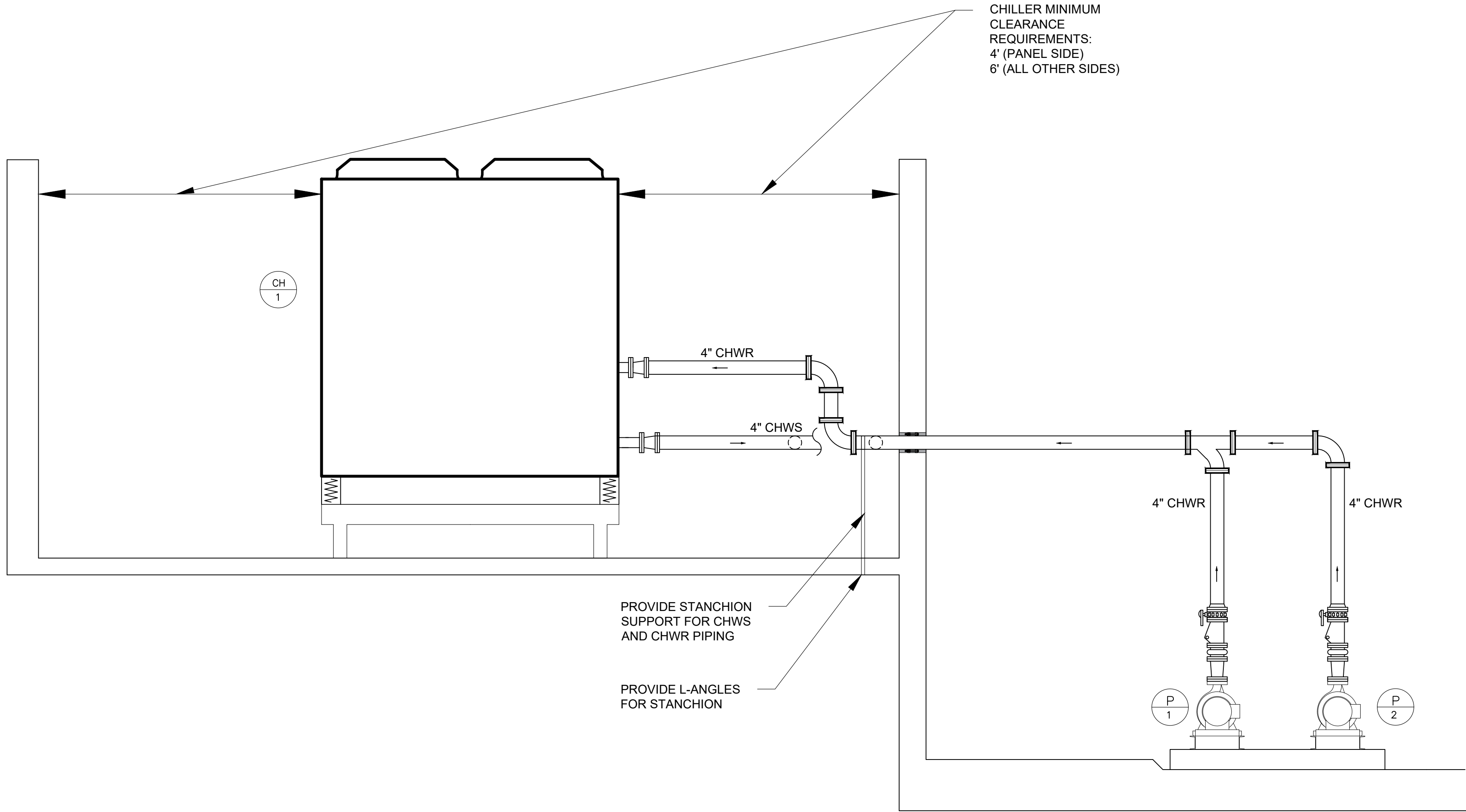
PROJECT NO.: 2494-00 SCALE: AS NOTED

DRAWING NO.:

M-5.1

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0 4 8 16 one eighth inch = one foot
0 4 8 16 one quarter inch = one foot
0 4 8 16 one half inch = one foot
0 4 8 16 three eighths inch = one foot
0 4 8 16 three quarters inch = one foot
0 4 8 16 one inch = one foot
0 4 8 16 two inch = one foot



1 CHILLED WATER SYSTEM PARTIAL ELEVATION SECTION
SCALE: 1/2" = 1'

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2	05.01.2022	ISSUED FOR NYSED SUBMISSION
1	04.22.2022	ISSUED FOR 95% CD
ISSUE NO.	ISSUE DATE	DESCRIPTION

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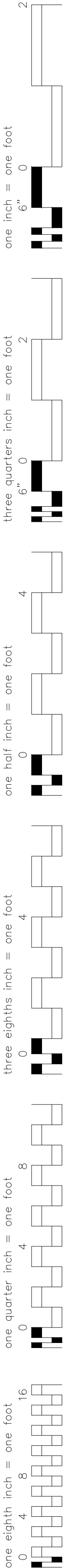
MECHANICAL CHILLED WATER SYSTEM PARTIAL ELEVATION SECTION

PROJECT NO.: 2494-00 SCALE: AS NOTED

DRAWING NO.:

M-5.2

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AIR-COOLED PACKAGED CHILLER SCHEDULE	
DESIGNATION	CH-1
LOCATION	MEZZANINE ROOF
MANUFACTURER	YORK
MODEL	YLAA0070SE17XFBSDTX
OPERATING WEIGHT (LBS.)	4213
TYPE	SCROLL
EER / COP	10.25
EER NPLV / COP NPLV	17.95
EVAPORATOR:	
DESIGN CAPACITY (TONS)	70
DESIGN FLOWRATE (GPM)	174
MIN./MAX. FLOWRATE (GPM)	324.9 / 60.23
MIN CHW FLOW (GPM)	<60.1
CHILLER FLOW SWITCH (AS VERIFIED BY BALANCER) (GPM)	66
E.W.T./L.W.T. (°F)	54 / 44
W.P.D. (FT H ₂ O)	19.5
REFRIGERATION SYSTEM:	
No. OF REFRIGERANT CIRCUITS	2
REFRIGERANT TYPE	R410A
COMPRESSOR TYPE	SCROLL - HERMETIC
No. OF COMPRESSORS ON CIRCUIT 1	3
No. OF COMPRESSORS ON CIRCUIT 2	3
REFRIGERANT CHARGE (LBS.)	75.8
CONDENSER:	
No. OF ROWS/F.P.I.	1 / 20
AMBIENT TEMP. (°F)	95
FANS:	
QUANTITY	4
H.P. (EA.)	2
TOTAL AIRFLOW CFM	60000
ELECTRICAL DATA:	
VOLTS/Ø/Hz	208/3/60
INPUT POWER (kW)	81.87
FLA (AMPS)	318.4
MCA (AMPS)	334
MOCP (AMPS)	350
NOTES:	
1. PROVIDE THE FOLLOWING OPTIONS: <ul style="list-style-type: none">• THE CHILLED WATER SYSTEM SHALL UTILIZE 30% PROPYLENE GLYCOL SOLUTION.• ULTRA QUIET FANS.• LOW SOUND ACOUSTICALLY LINED COMPRESSOR ENCLOSURE.• WIRE MESH SECURITY GRILLES.• 1-1/2" INSULATION ON EVAPORATOR.• FLOW SWITCH.• BUILDING AUTOMATION SYSTEM INTERFACE.• SERVICE SUCTION ISOLATION VALVE FOR EACH REFRIGERANT CIRCUIT.• PRESSURE RELIEF SERVICE VALVE KIT.• YORK RESTRAINED SPRING ISOLATORS WITH A MINIMUM STATIC DEFLECTION OF 2" BASED UPON LOAD.• CONTROL TRANSFORMER.• MICROPROCESSOR CONTROLS.	
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS: <ul style="list-style-type: none">• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, WITH FACTORY INSTALLED, UNIT-MOUNTED, NON-FUSED DISCONNECT SWITCH.• ALL MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES SHALL BE FACTORY INSTALLED.• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.• ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.•UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.•PROVIDE WITH BACNET CONTROL INTERFACE CARD.	

PUMP SCHEDULE		
DESIGNATION	P-1	P-2
LOCATION	MEZZANINE MER	MEZZANINE MER
SYSTEM SERVED	CH-1	CH-1
ARRANGEMENT	BASE MOUNTED	BASE MOUNTED
MANUFACTURER	TACO	TACO
MODEL	F11509D	F11509D
IMPELLER DIA. (IN.)	8.40	8.40
GPM	90	90
TOTAL DYNAMIC HEAD (FT H ₂ O)	70	70
RPM	1760	1760
NPSH (FT. H ₂ O)	3	3
MOTOR HP / BHP	5 / 2.65	5 / 2.65
VOLTAGE/Ø/Hz	208/3/60	208/3/60
FT OF HEAD AT 0 GPM	80	80
STARTER TYPE	VFD	VFD
STARTER LOCATION	MEZZANINE MER	MEZZANINE MER
DISCONNECT SWITCH AT PUMP (Y/N)	Y	Y
NOTES: <ul style="list-style-type: none">1. FLUID SHALL BE 30% PROPYLENE GLYCOL SOLUTION.2. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.3. VFD'S SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.4. ALL VFD'S SHALL BE PROVIDED WITH A DISCONNECT SWITCH OR CIRCUIT BREAKER AND DRIVE/BYPASS CONFIGURATION.5. PROVIDE INERTIA PADS FOR PUMPS WITH 2" SPRING VIBRATION ISOLATORS.		

CHILLED WATER BUFFER TANK SCHEDULE	
DESIGNATION	BT-1
LOCATION	MEZZANINE MER
SERVICE	CHW
MANUFACTURER	TACO
MODEL	BTH0400F02-125N
CAPACITY (GAL)	400
DIAMETER (IN)	48
HEIGHT (IN)	74
OPERATING WEIGHT (LB)	4350
WEIGHT (LB)	1,010
CONNECTION TYPE (IN)	4" FLANGED
NOTES: <ul style="list-style-type: none">1. TANK SHALL BE ASME RATED AND STAMPED FOR 125 PSIG.	

GLYCOL MAKE UP TANK SCHEDULE	
DESIGNATION	GMT-1
LOCATION	MEZZANINE MER
SERVICE	CHW
MANUFACTURER	WESSELS COMPANY
MODEL	GMP-13050
VOLUME (GAL)	50
DIAMETER (IN)	34
HEIGHT (IN)	45
HP	1 / 3
VOLTAGE/Ø/Hz	120/1/60
MAKE-UP CAPACITY (GPM @ PSI)	1.8 @ 70
OPERATING WEIGHT (LB)	551.27
WEIGHT (LB)	134
NOTES:	


EXPANSION TANK SCHEDULE	
DESIGNATION	ET-1
LOCATION	MEZZANINE MER
SERVICE	CHW
MANUFACTURER	TACO
MODEL	PAX130-150
CAPACITY (GAL)	34
DIAMETER (IN)	16
HEIGHT (IN)	52.5
OPERATING WEIGHT (LB)	483.74
WEIGHT (LB)	200
CONNECTION TYPE (IN)	¾"
NOTES: <ul style="list-style-type: none">1. TANK SHALL BE ASME RATED AND STAMPED FOR 125 PSIG.	

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MECHANICAL EQUIPMENT SCHEDULES

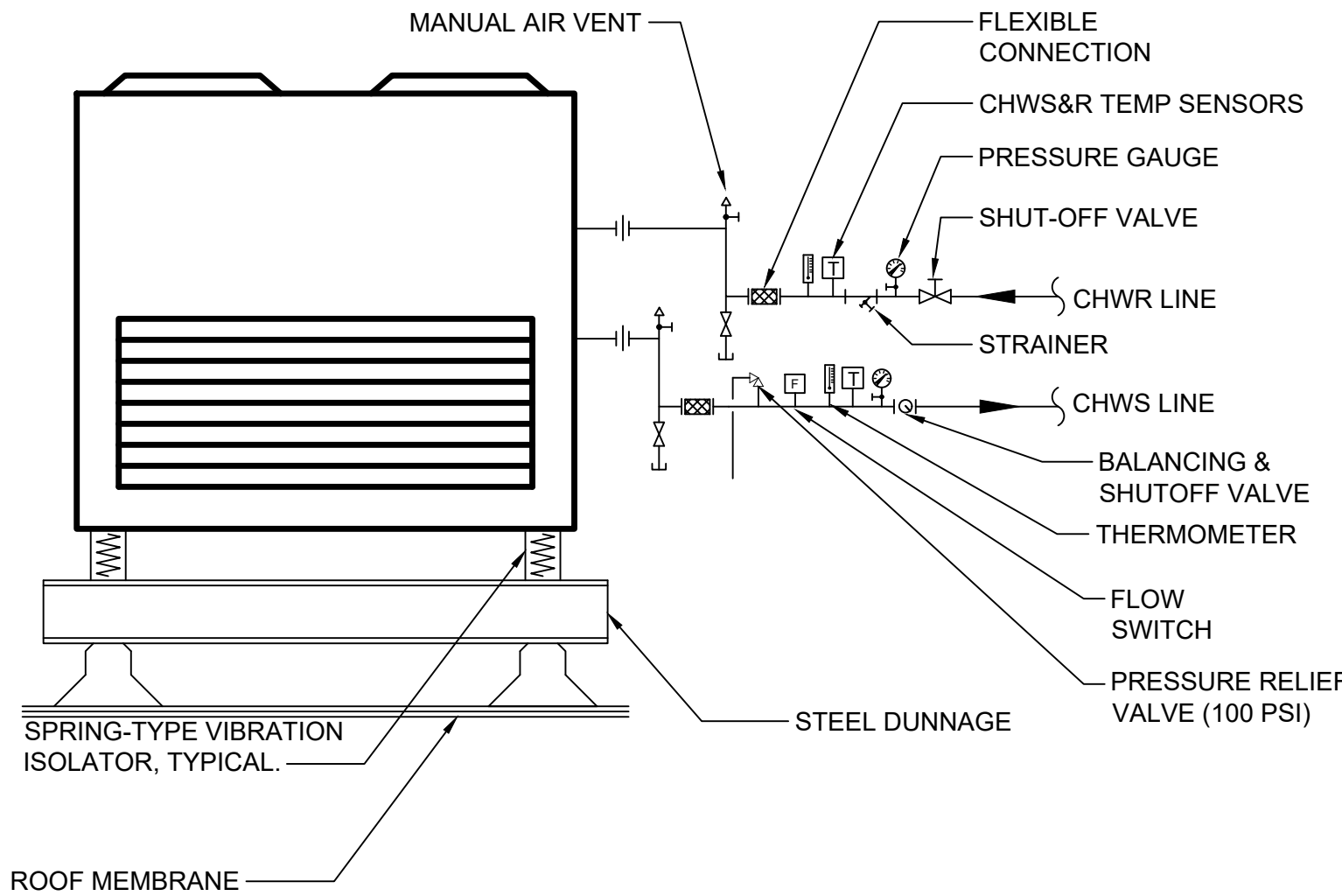
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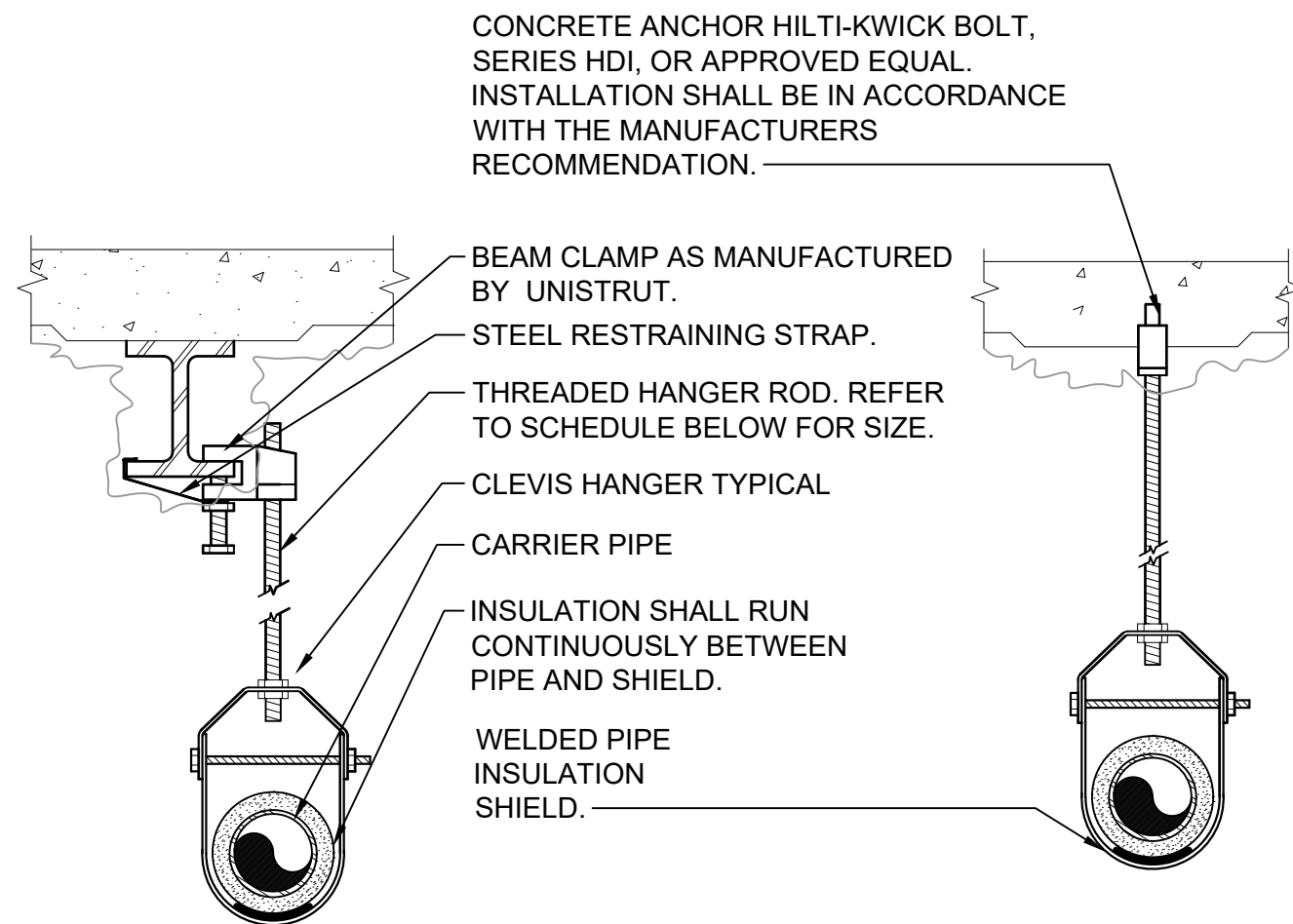
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one quarter inch = one foot
0 4 8
three eighths inch = one foot
0 4 8
one half inch = one foot
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three quarters inch = one foot
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one inch = one foot
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NOTES:

- 1.) MOUNT UNIT ON STEEL DUNNAGE WITH SPRING VIBRATION ISOLATORS AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO STRUCTURAL PLANS FOR STEEL DUNNAGE.

1 AIR COOLED CHILLER PIPING SCHEMATIC
SCALE: NONE

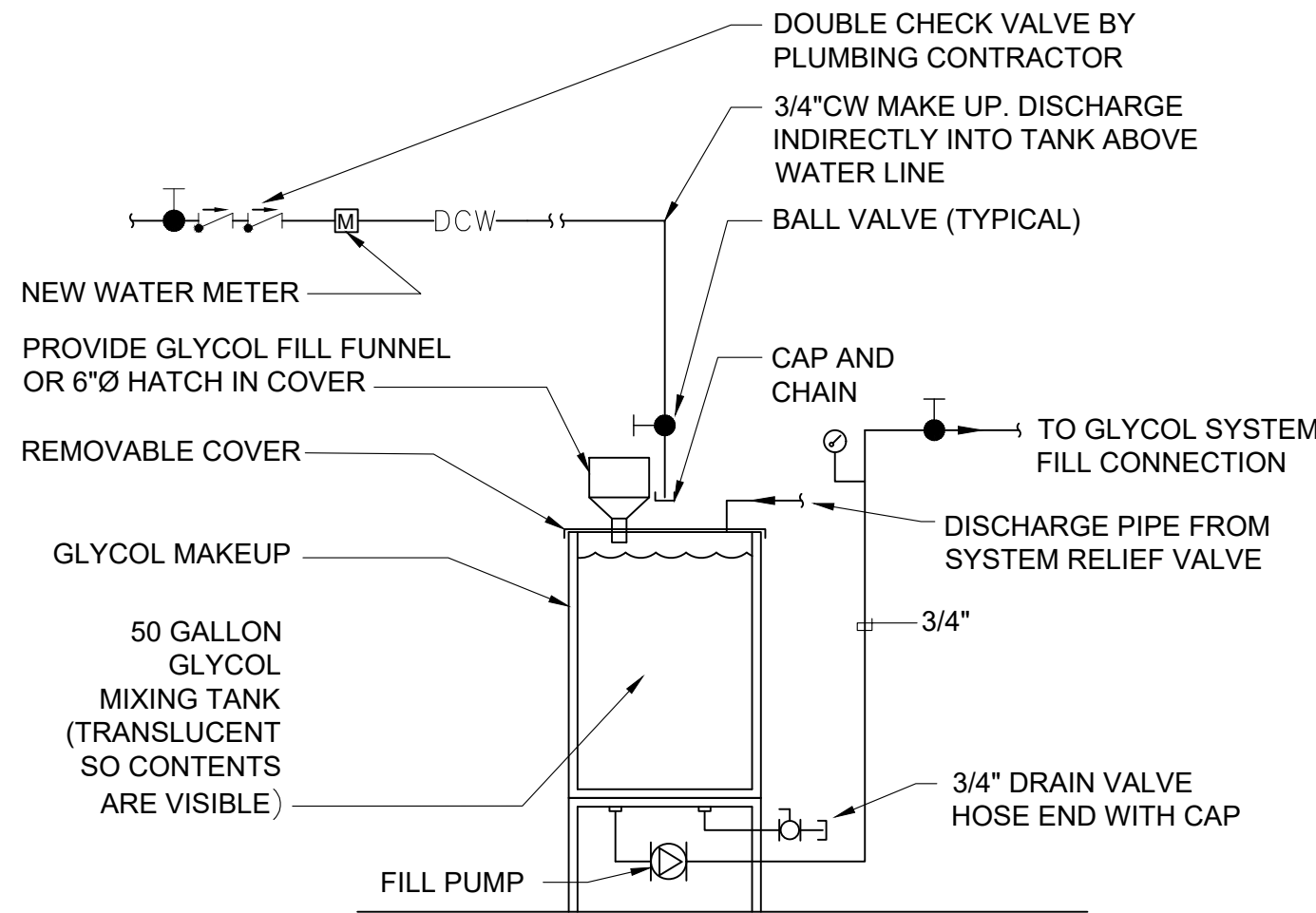


PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:

- 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
7.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

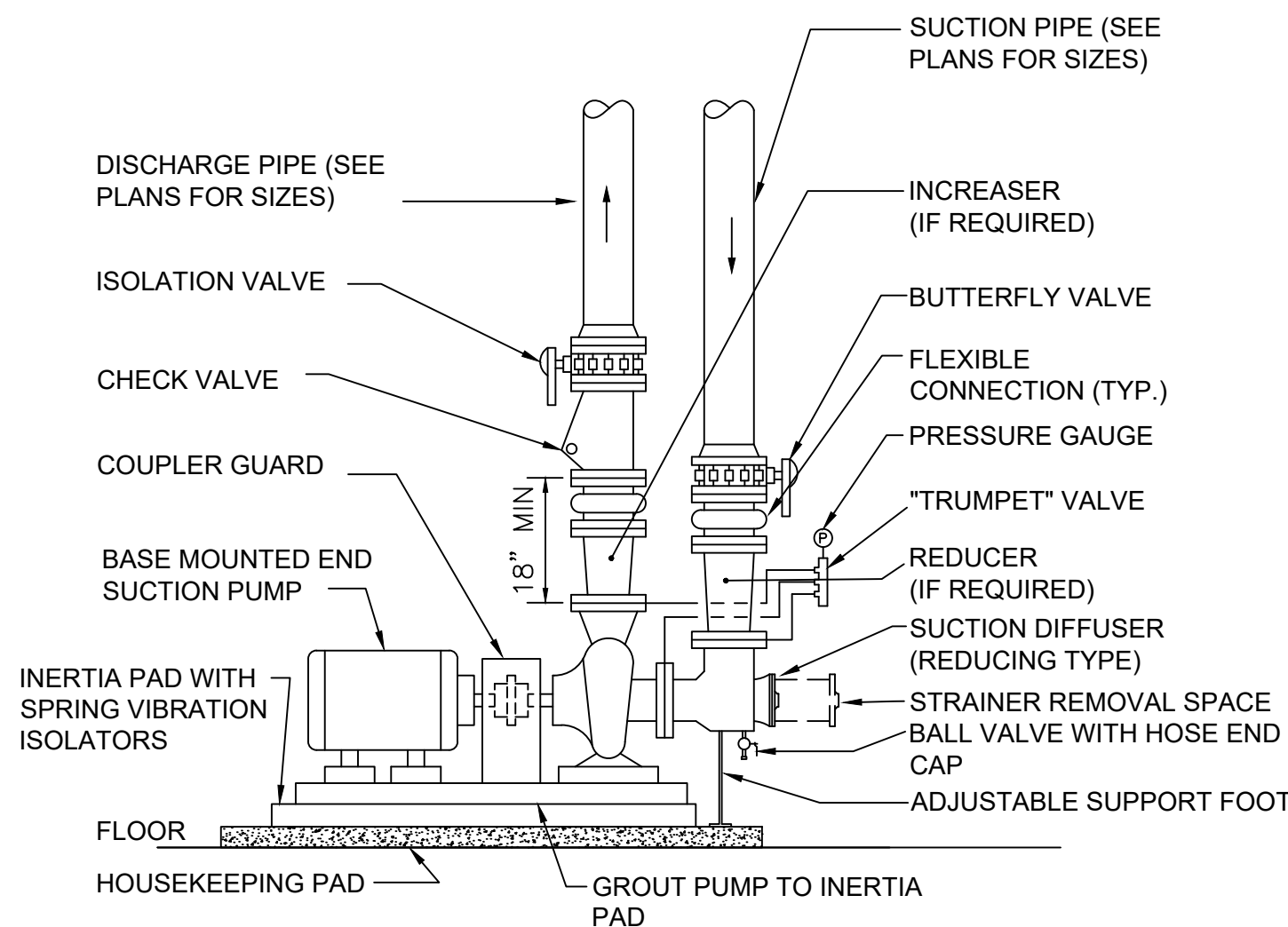
3 PIPE HANGER DETAIL
SCALE: NONE



NOTES:

- 1.) SYSTEM SHALL CONTAIN PRESSURE MAINTAINING CONTROLS TO START PUMP.

2 CHILLED WATER GLYCOL FILL SYSTEM
SCALE: NONE



NOTE:
SUPPORT SUCTION AND DISCHARGE PIPES SO THAT NO LOAD IS IMPOSED ON PUMP CASING.

4 END SUCTION PUMP PIPING DETAIL SOLID BASE
SCALE: NONE

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MECHANICAL DETAILS

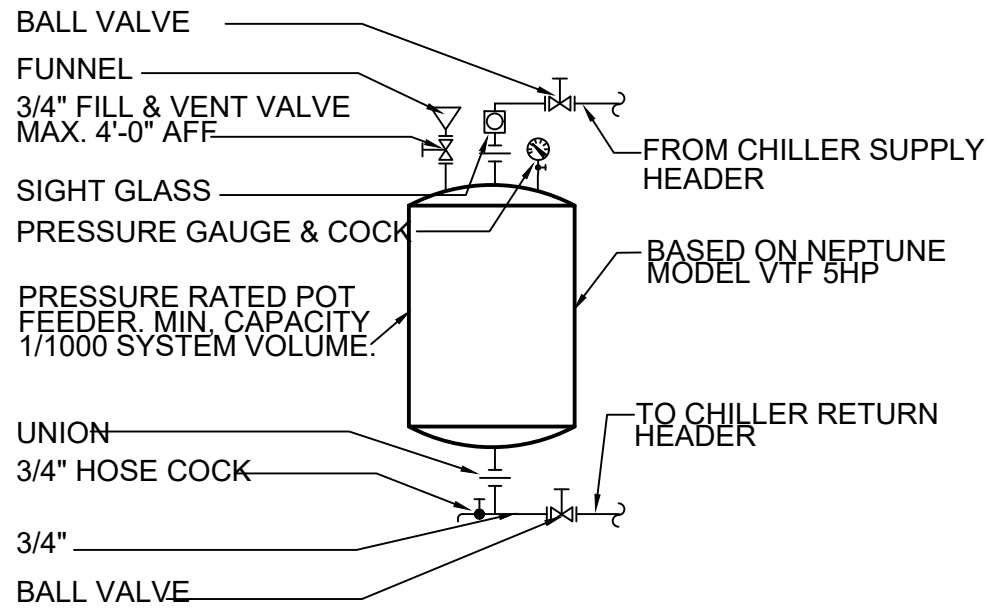
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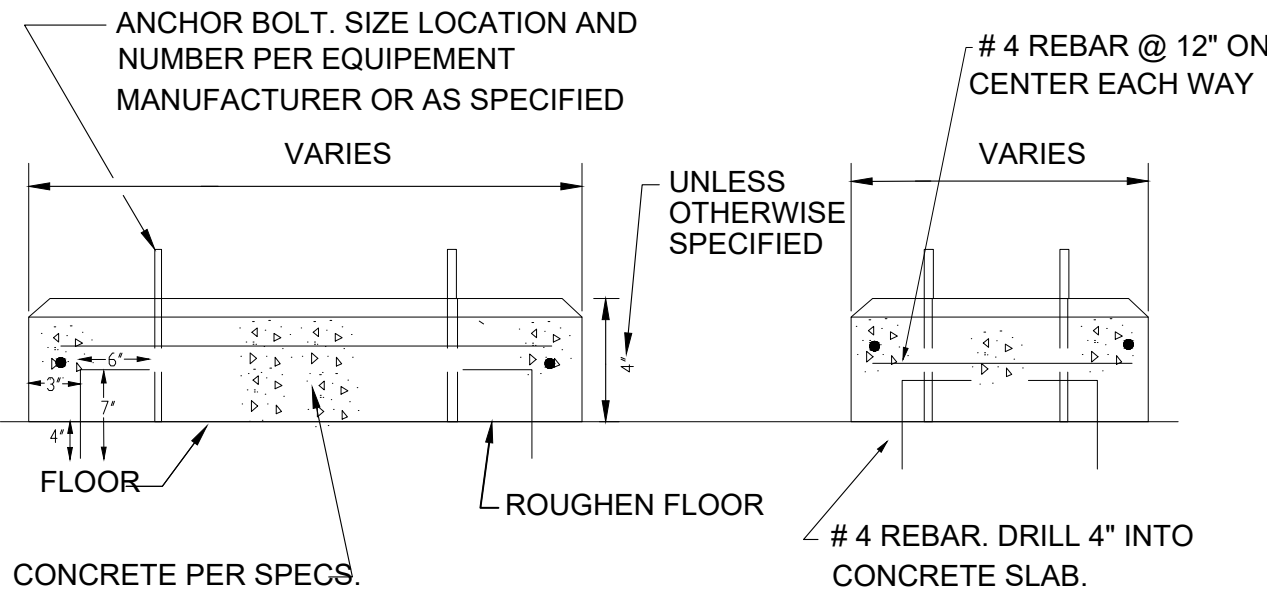
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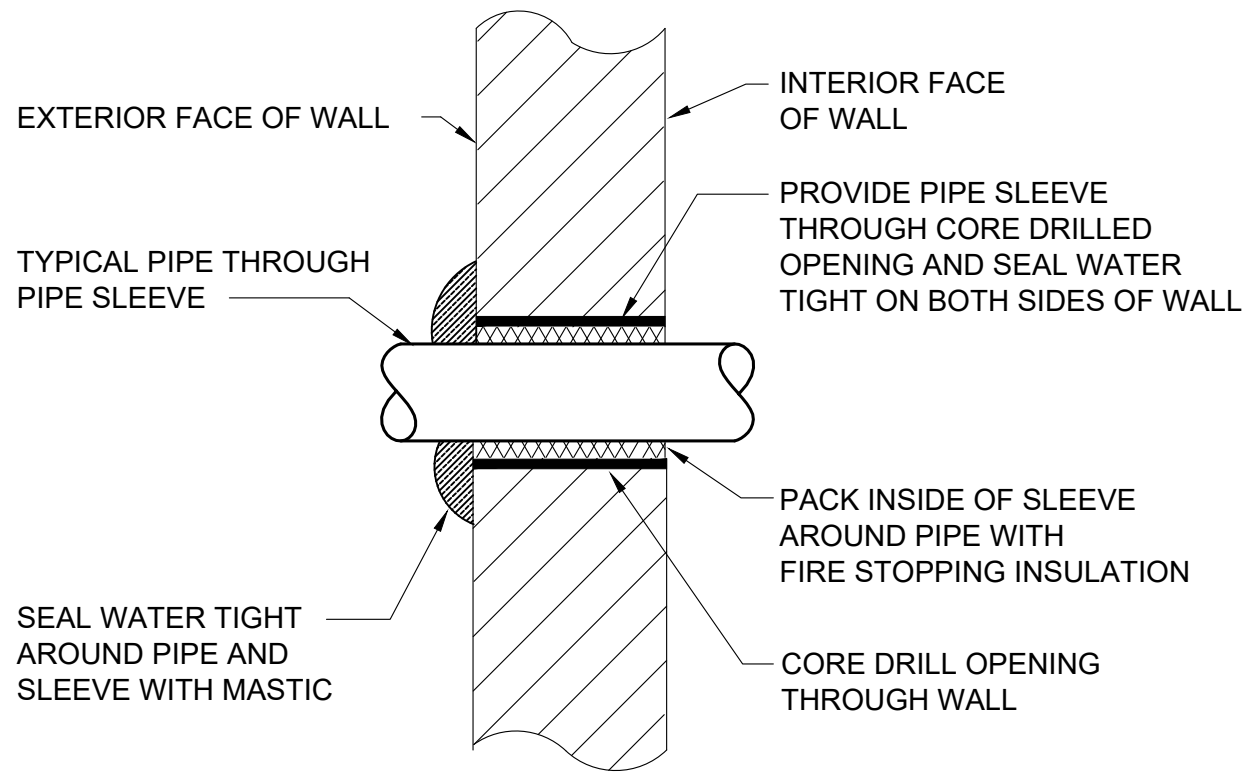
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1 CHEMICAL SHOT FEEDER DETAIL
SCALE: NONE

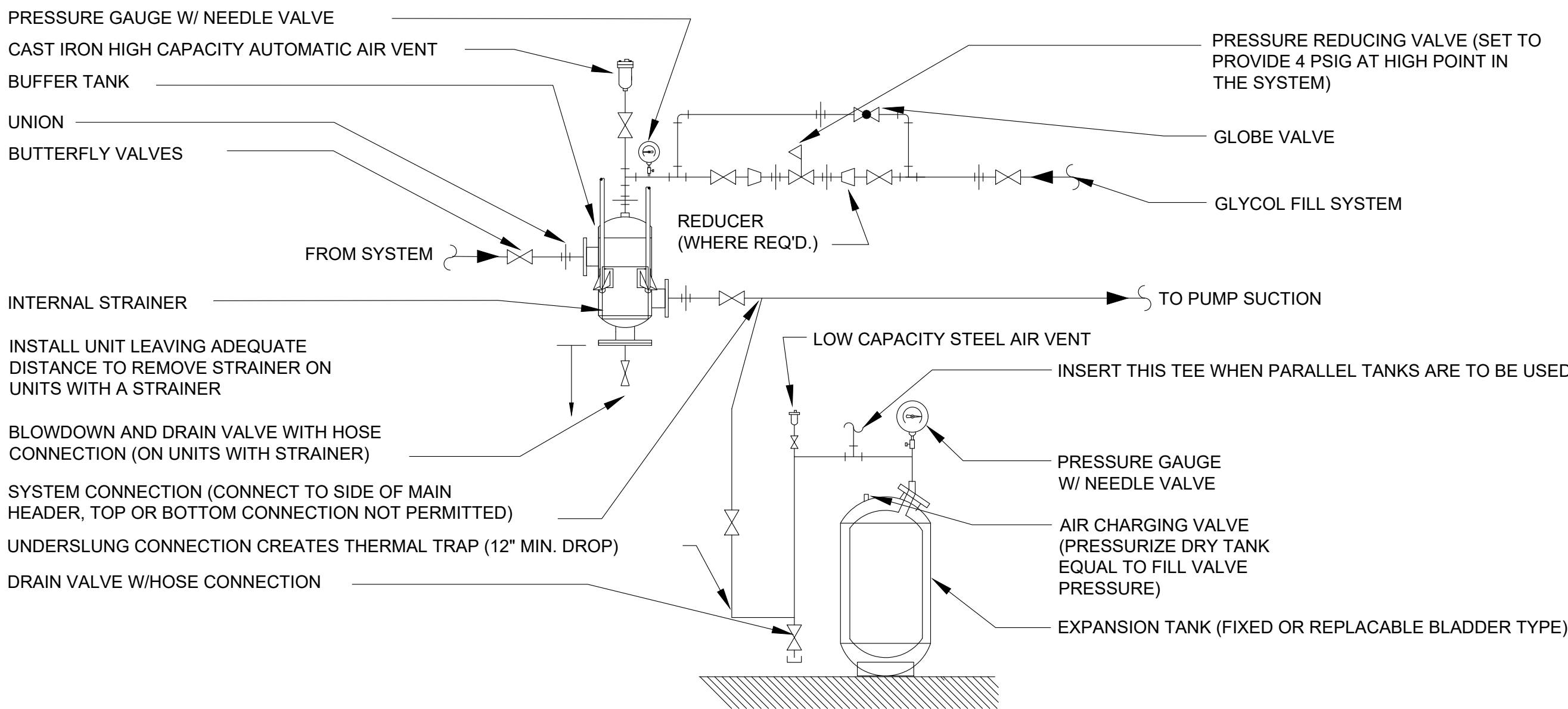


2 CONCRETE PAD DETAIL
SCALE: NONE



- NOTES:
- 1.) FOR PIPE SIZES THROUGH 1 1/2", PROVIDE SEPARATE SLEEVE FOR EACH PIPE. FOR PIPE SIZES UNDER 1 1/2", MULTIPLE PIPES MAY PENETRATE WALL THROUGH A COMMON SLEEVE - SEAL SPACE BETWEEN MULTIPLE PIPES WATER TIGHT WITH MASTIC AND PACK SPACE BETWEEN PIPES WITH FIRE STOPPING INSULATION.
 - 2.) PIPE INSULATION AND VAPOR BARRIER TO BE CONTINUOUS THROUGH ENTIRE PENETRATION.
 - 3.) SLEEVE AROUND PIPE INSULATION MUST BE SEALED WATER TIGHT TO EXTERIOR WALL SURFACE

3 PIPE PENETRATION DETAIL
SCALE: NONE



4 BUFFER TANK AND EXPANSION TANK DETAIL
(VERTICAL FLOOR MOUNTED - REPLACEABLE BLADDER)
SCALE: NONE

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MECHANICAL DETAILS 2

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M-7.2

GENERAL NOTES

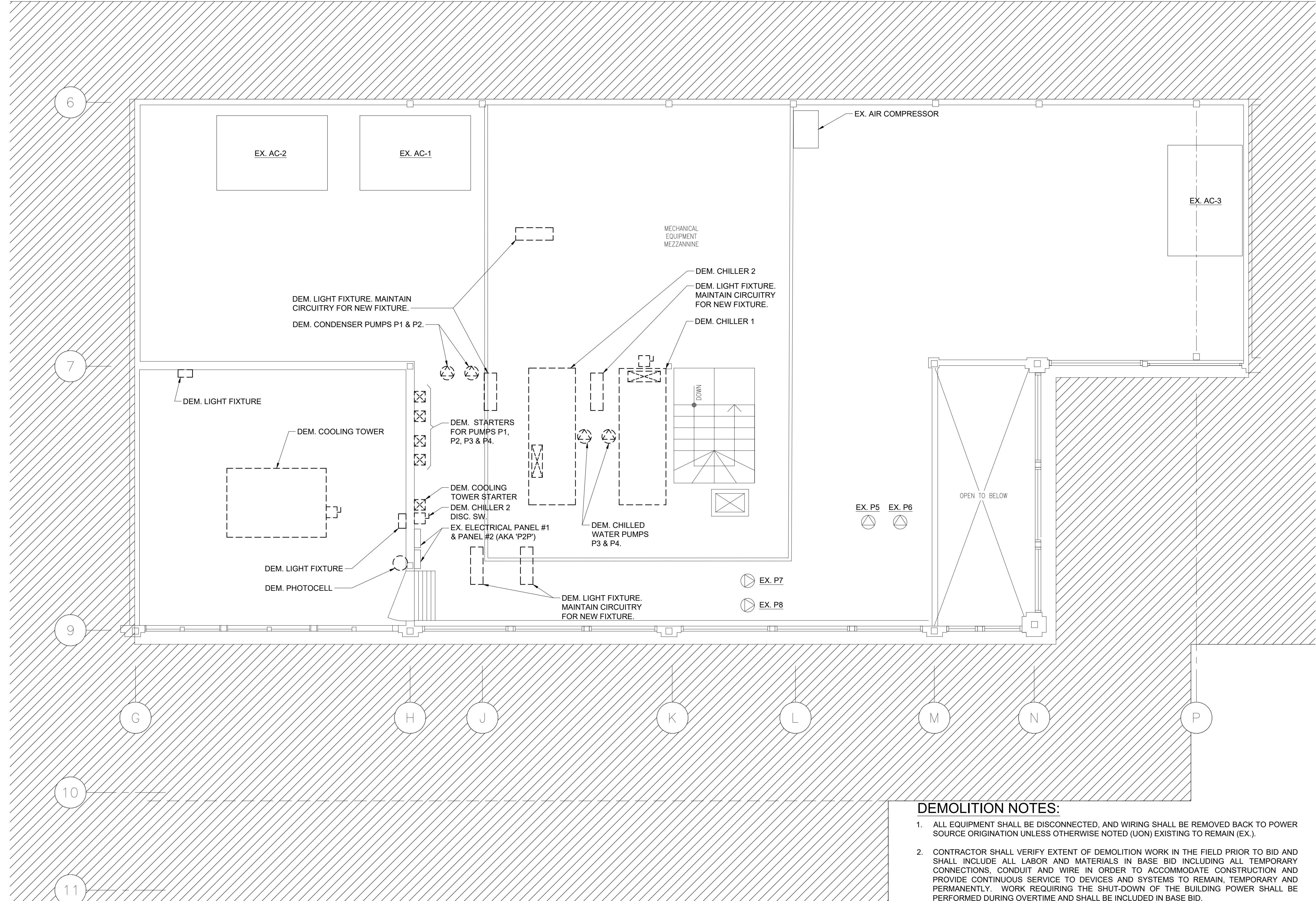
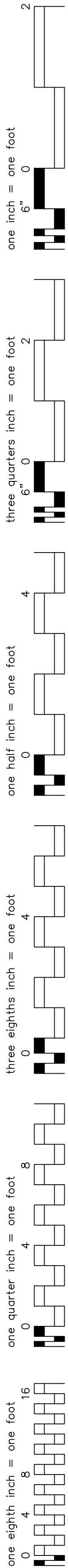
- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A THIRD PARTY ELECTRICAL INSPECTION AGENCY TO PROVIDE UL INSPECTIONS AND SUBMIT A CERTIFICATE OF INSPECTION PRIOR TO FINAL REQUEST FOR PAYMENT.
- ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
- ALL CONDUCTORS SHALL BE COPPER UON.
- ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
- CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY.
- CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.

DEFINITION OF TERMS

- "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND /OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
 - "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 - "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 - "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
 - "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

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<h3>ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES</h3>	
PROJECT NO.: 2494-00	SCALE: AS NOTED
PROJECT NO.:	
<h1>E-0.1</h1>	

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1 ELECTRICAL MEZZANINE PENTHOUSE DEMO PLAN
1/4" = 1'-0"

- DEMOLITION NOTES:**
- ALL EQUIPMENT SHALL BE DISCONNECTED, AND WIRING SHALL BE REMOVED BACK TO POWER SOURCE ORIGATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
 - CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
 - CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
 - ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
 - ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
 - THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.

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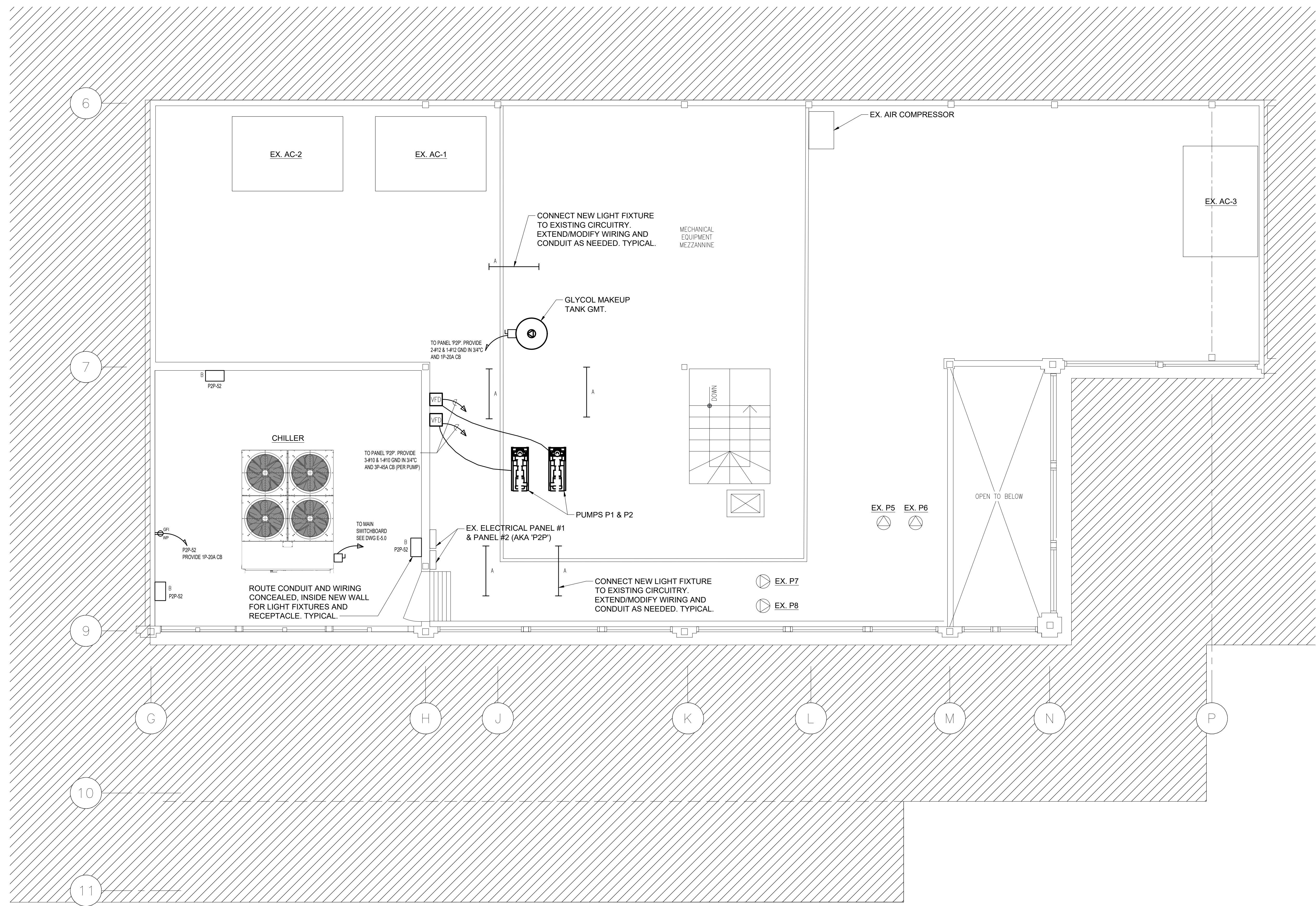
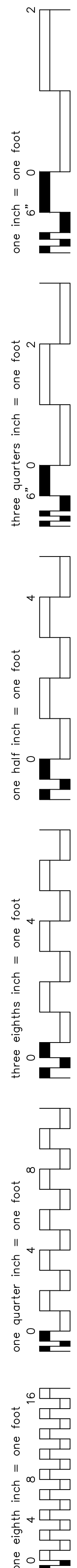
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**ELECTRICAL MEZZANINE
PENTHOUSE DEMO PLAN**

PROJECT NO.:	2494-00	SCALE:	AS NOTED
DRAWING NO.:	E-1.0		

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1 ELECTRICAL MEZZANINE PENTHOUSE NEW WORK PLAN
1/4" = 1'-0"

Lothrop

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2	05.01.2022	ISSUED FOR NYSED SUBMISSION
1	04.22.2022	ISSUED FOR 95% CD
ISSUE NO.	ISSUE DATE	DESCRIPTION

PEARL RIVER PUBLIC LIBRARY CHILLER REPLACEMENT

80 Franklin Ave.
Pearl River, NY 10965

NY SED PROJECT CONTROL NO.
50 - 03 - 08 - 03 - 6 - 005 - 004

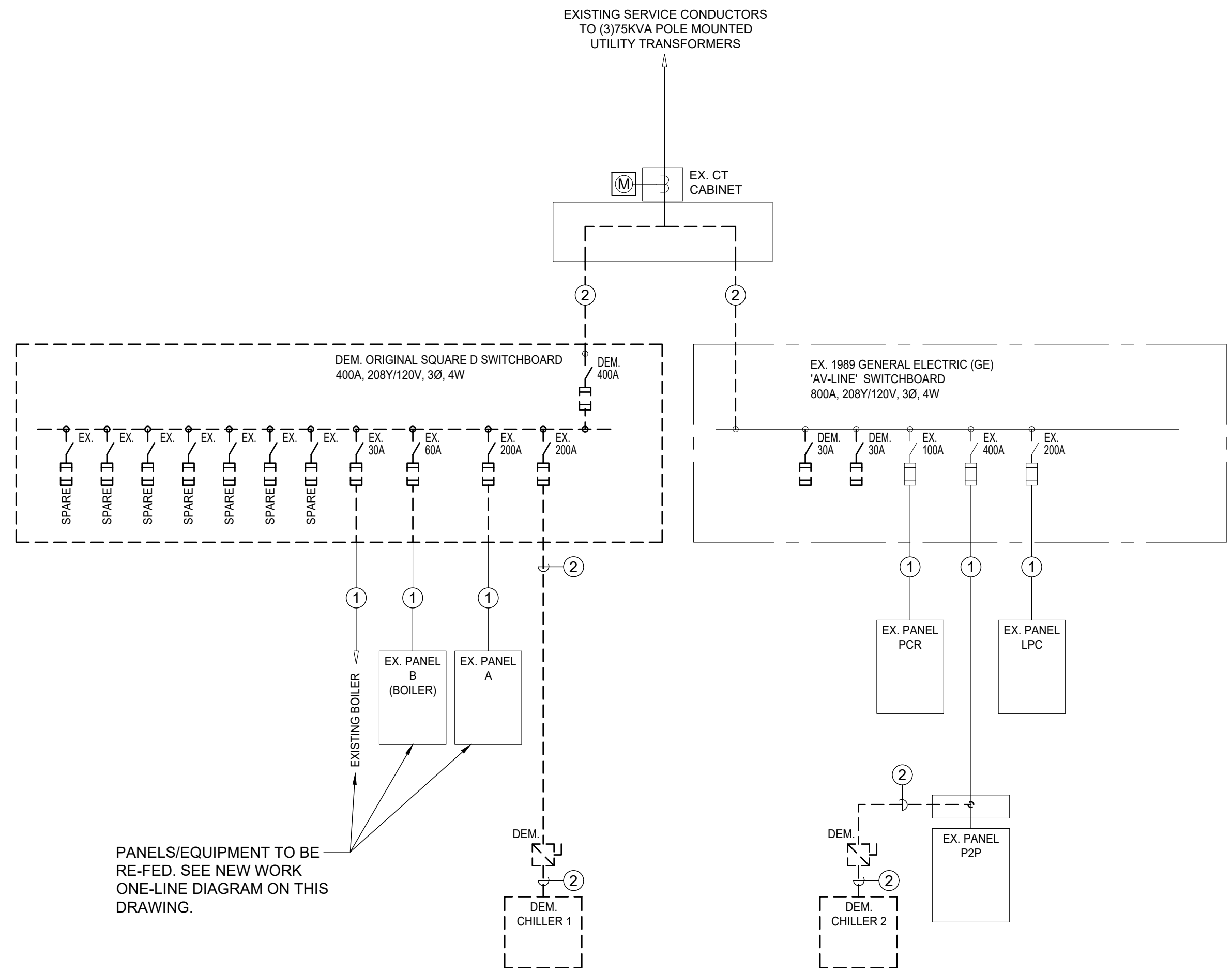
ELECTRICAL MEZZANINE PENTHOUSE NEW WORK PLAN

PROJECT NO.:	2494-00	SCALE:	AS NOTED
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DRAWING NO.:
E-2.0

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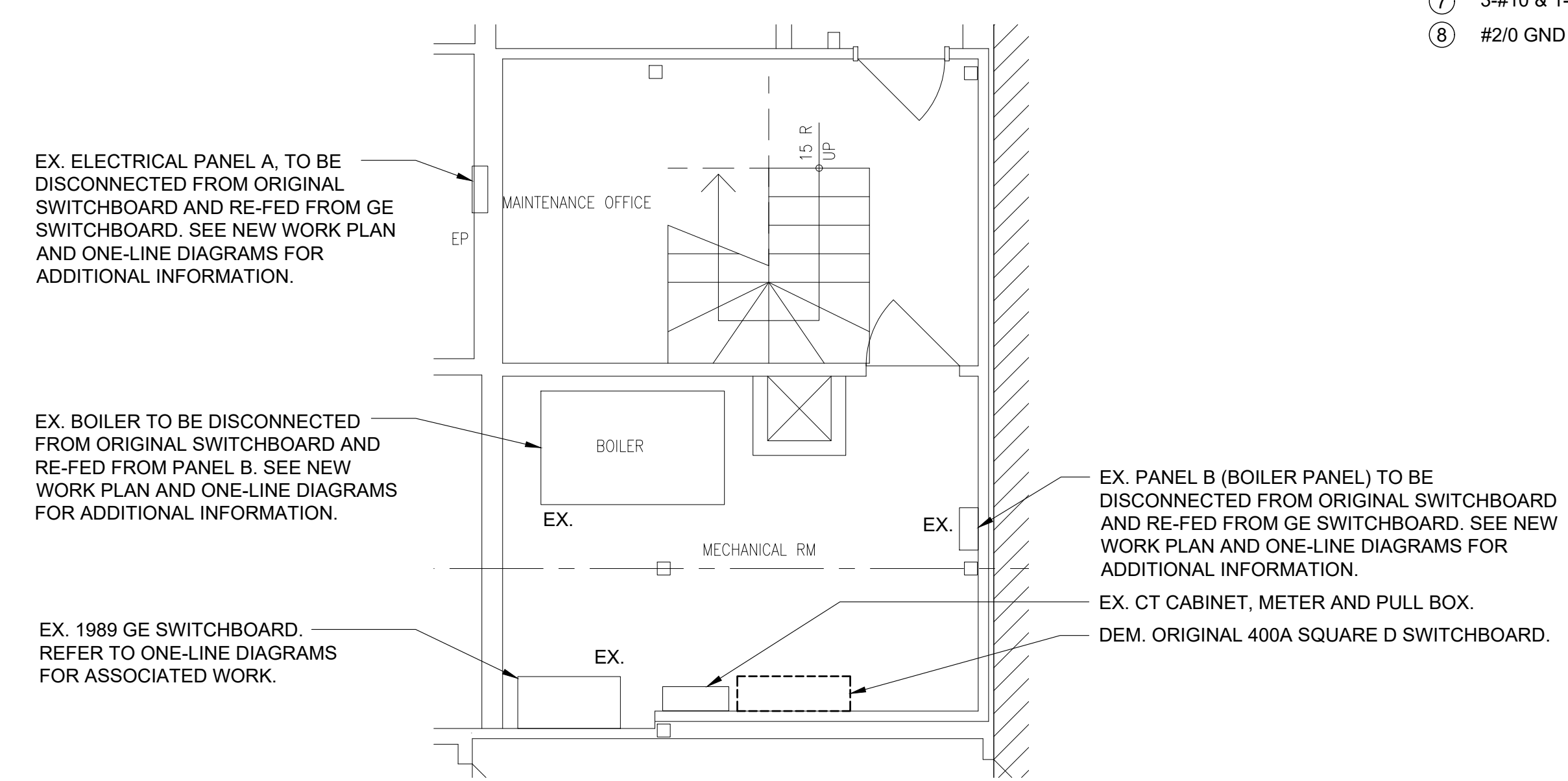
one eighth inch = one foot
one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
two inches = one foot



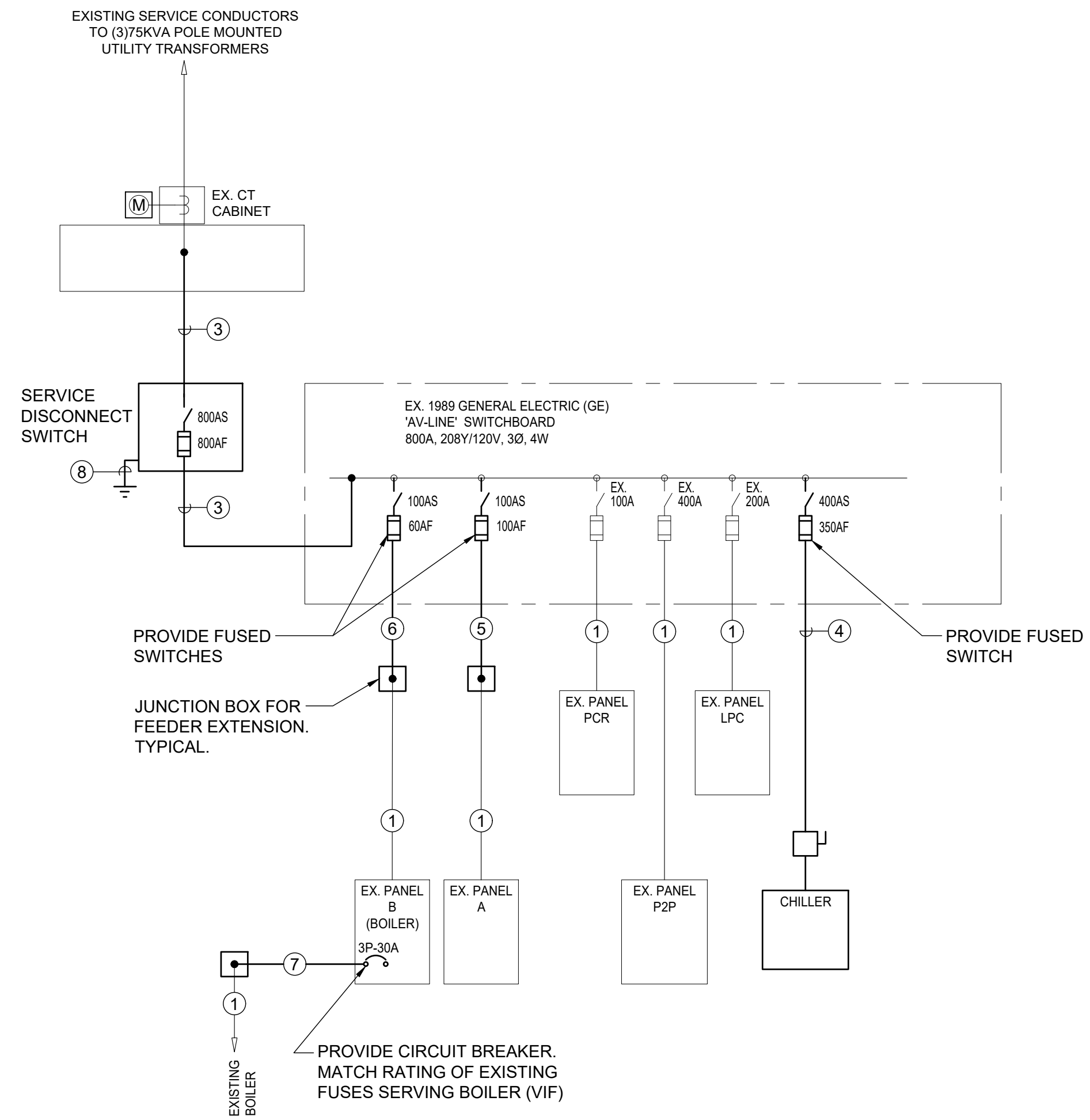
1 ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION
NOT TO SCALE

WIRING/CONDUIT LEGEND:

- 1 EX. CONDUIT AND CONDUCTORS.
- 2 DEM. CONDUIT AND CONDUCTORS.
- 3 (2) SETS OF 4-#500MCM & 1-#1/0 GND IN (2) 3-1/2"C
- 4 3-#500MCM & 1-#3 GND IN 3-1/2"C
- 5 4-#2 & 1-#8 GND IN 1-1/4"C (VIF, MATCH EXISTING)
- 6 4-#4 & 1-#10 GND IN 1-1/4"C (VIF, MATCH EXISTING)
- 7 3-#10 & 1-#10 GND IN 3/4"C (VIF, MATCH EXISTING)
- 8 #2/0 GND

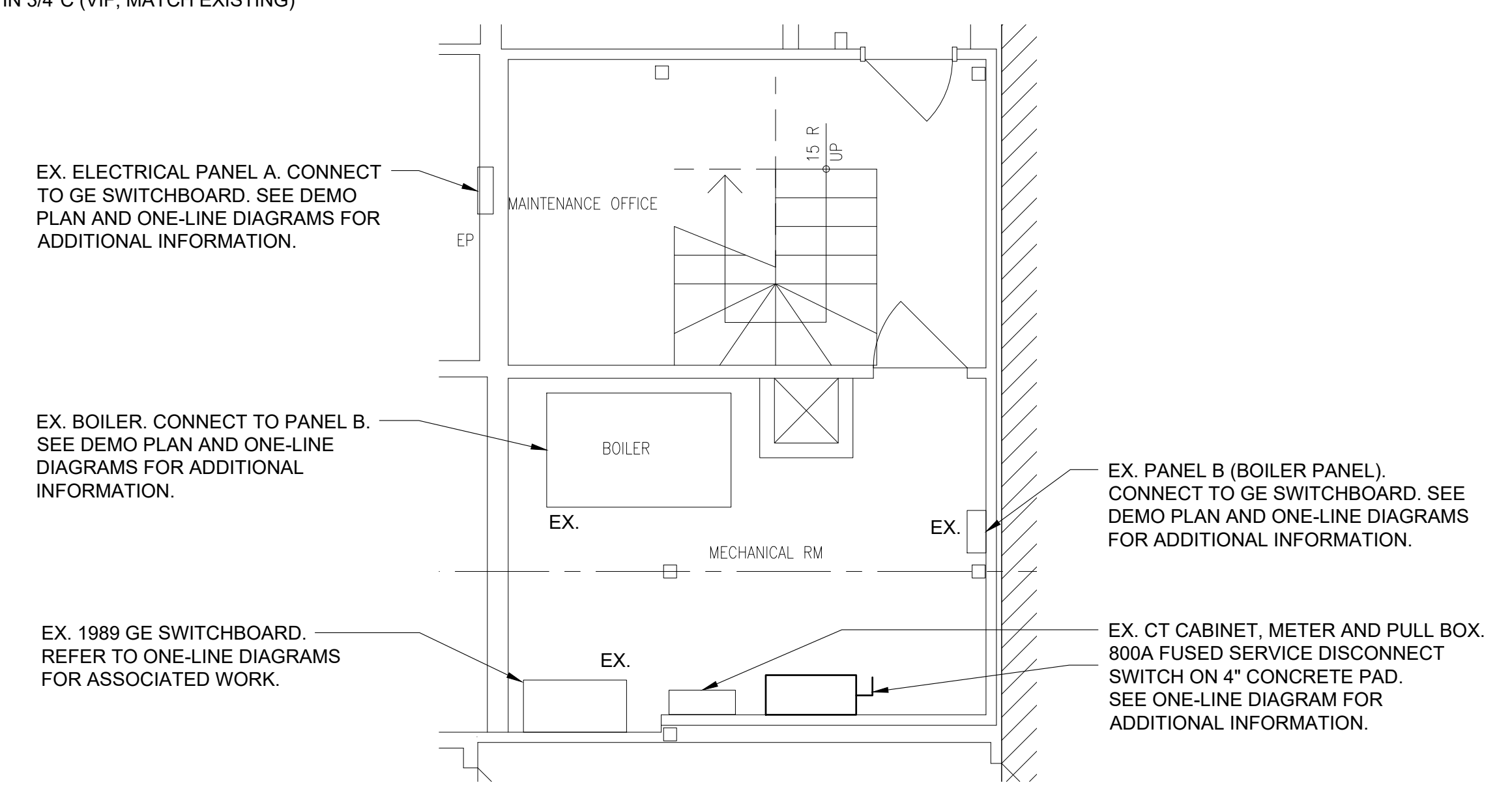


2 ELECTRICAL FIRST FLOOR PART PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



3 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
NOT TO SCALE

NOTES:
ALL SWITCHES AND CIRCUIT BREAKERS ARE 3 POLE U.O.N.



4 ELECTRICAL FIRST FLOOR PART PLAN - NEW WORK
SCALE: 1/4" = 1'-0"



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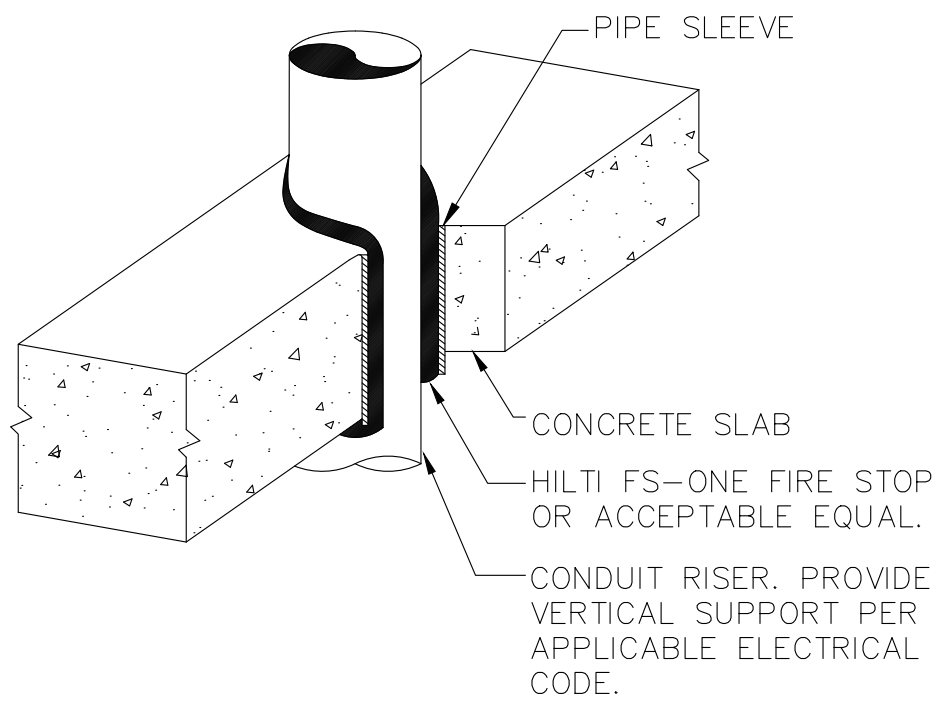
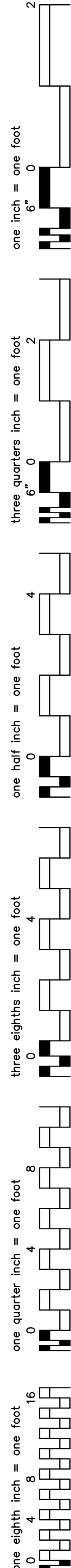
NY SED PROJECT CONTROL NO.
50 - 03 - 08 - 03 - 6 - 005 - 004

ELECTRICAL ONE-LINE DIAGRAMS AND FIRST FLOOR PART PLANS

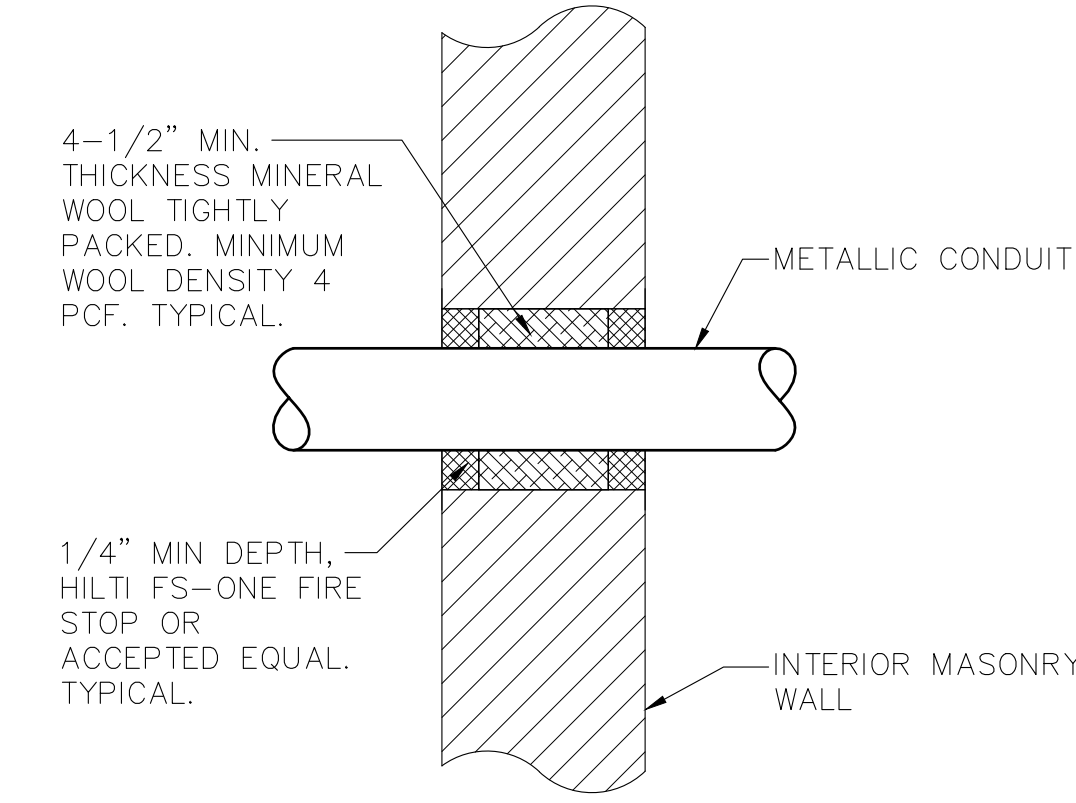
PROJECT NO.:	2494-00	SCALE:	AS NOTED
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DRAWING NO.:
E-5.0

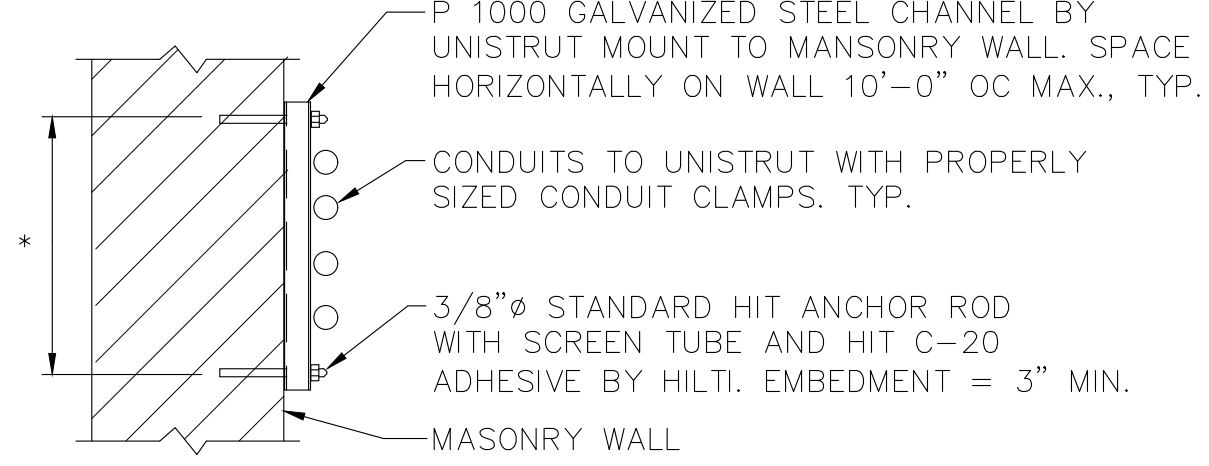
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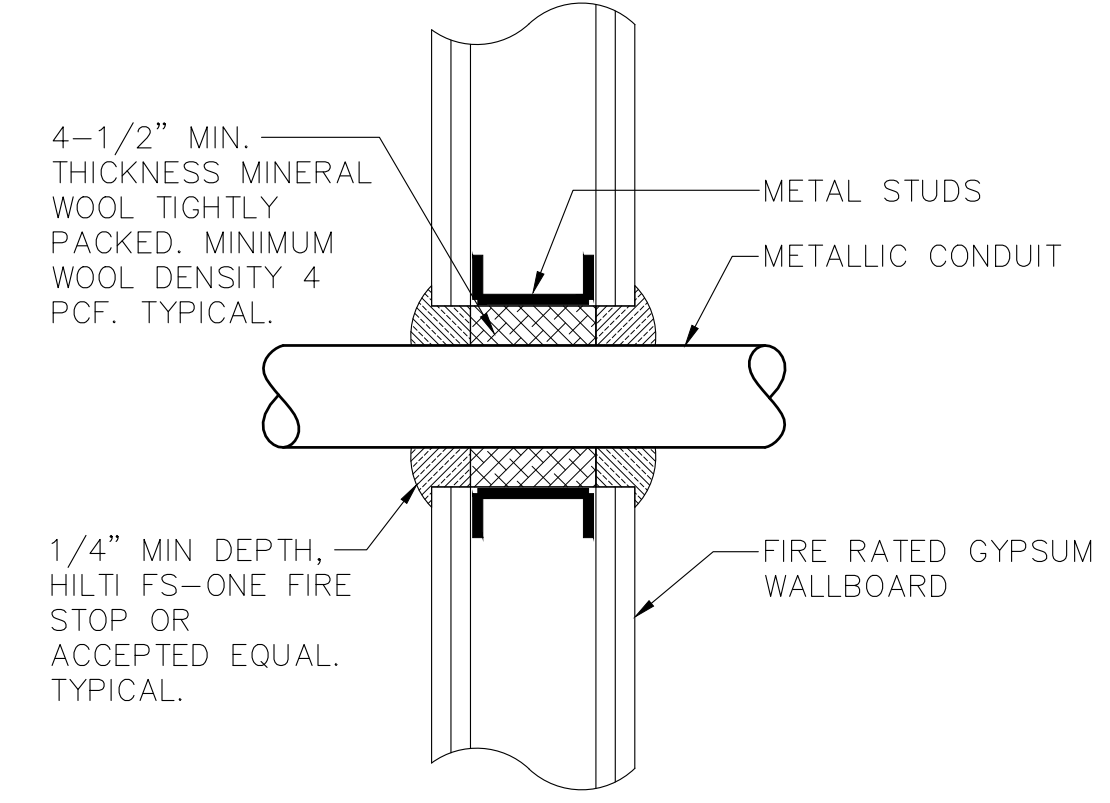
5 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE



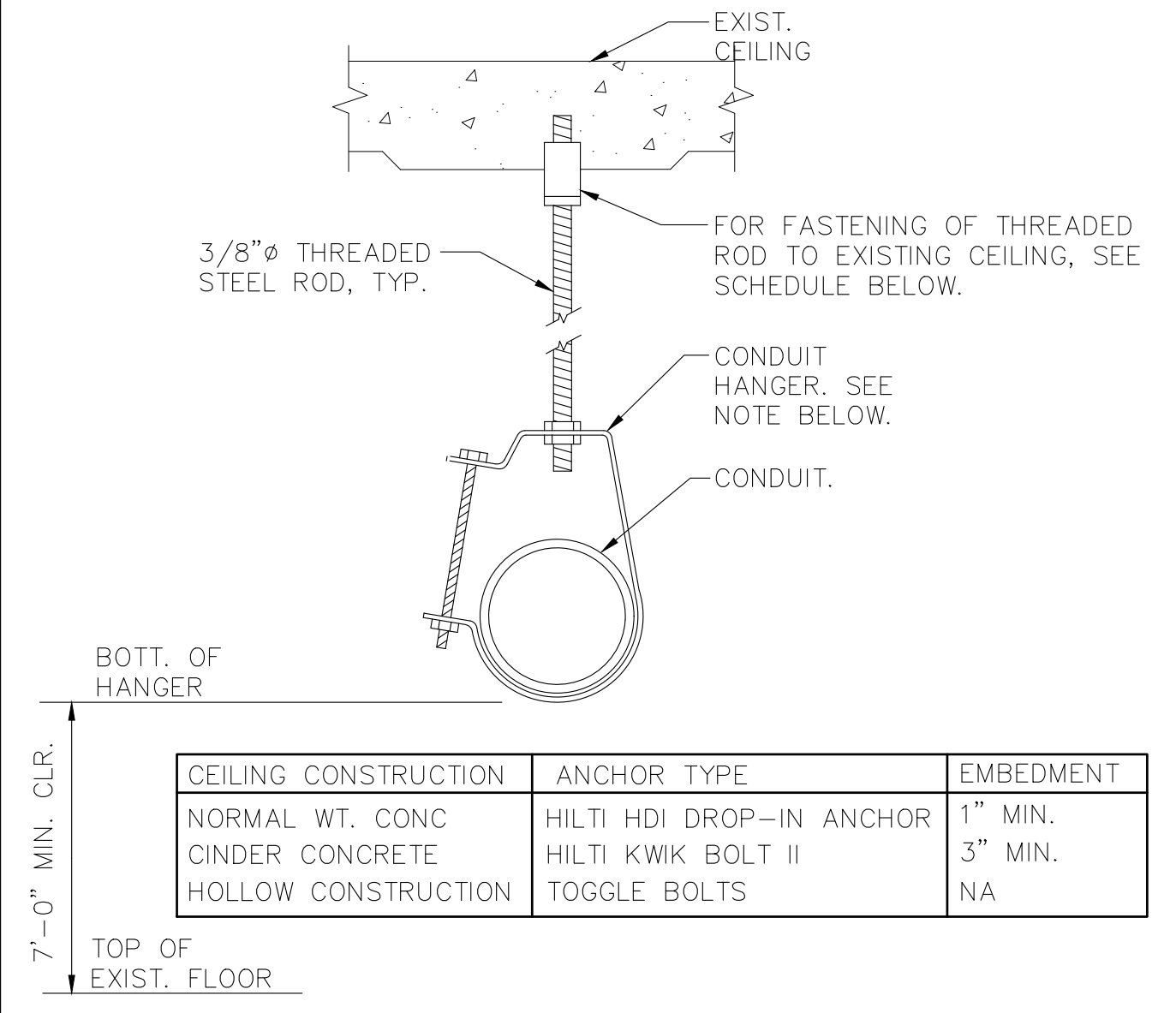
6 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



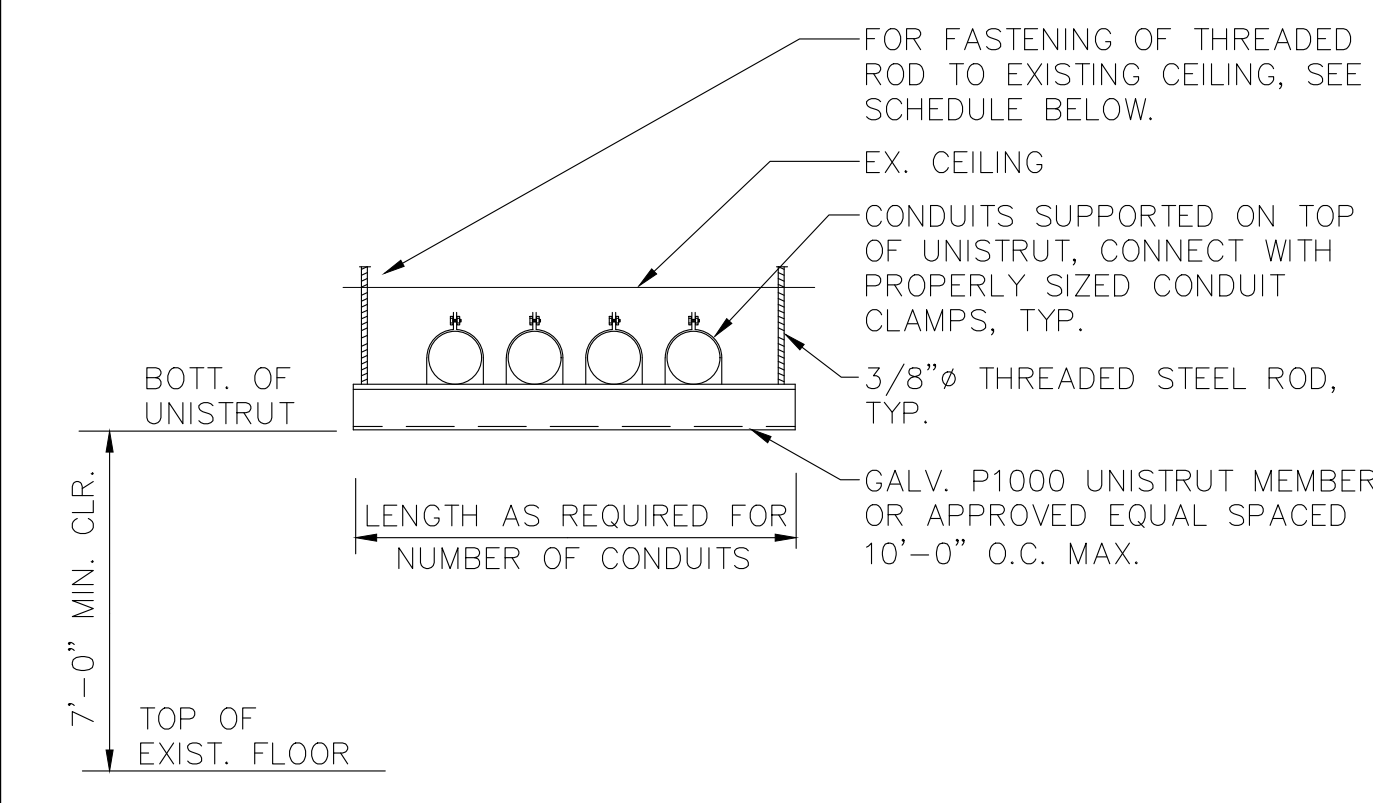
3 TYPICAL CONDUIT SUPPORT ON MASONRY
SCALE: 1" = 1'-0"



4 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



1 SINGLE CONDUIT HANGER DETAIL
SCALE: NONE



CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

2 TRAPEZE SUPPORT DETAIL
SCALE: NONE

LIGHTING FIXTURE SCHEDULE						
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
A	CREE	LS4-40L-835-R-UL-10V	LED 31W	UNV	SUSPENDED	4'-0" LINEAR LED LIGHT FIXTURE SUSPENDED FROM SLAB ABOVE BY CABLE. PROVIDE WITH FIELD-INSTALLED ADJUSTABLE CABLE SUPPORT KIT ACCESSORY
B	LSI INDUSTRIES	FIXTURE: XWS LED 5L FTW UNV DIM 40 80CRI CONTROLS: IMSBT1	LED 39W	UNV	SURFACE	EXTERIOR LED WALL SCONCE WITH STANDALONE INTEGRAL MOTION AND PHOTOCELL SENSOR

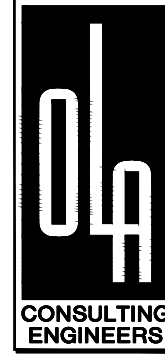
NOTES:
1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.



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ELECTRICAL DETAILS AND LIGHTING FIXTURE SCHEDULE

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DRAWING NO.:
E-7.0