



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**23-JULY-1701 Jefferson Parish Sheriff's Office Warehouse Tornado
Repairs**

Jefferson Parish Sheriff's Office

Project documents obtained from www.CentralBidding.com

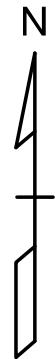
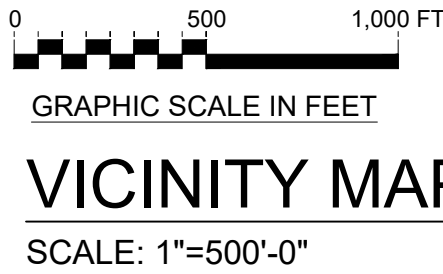
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JEFFERSON PARISH SHERIFF'S OFFICE
WAREHOUSE TORNADO REPAIRS

1801 Westbank Expressway, Harvey, LA 70058

Sheriff Joseph P. Lopinto, III

OWNER'S BID NUMBER 23-JULY-1701



PROJECT TEAM

ARCHITECT:
N-Y ASSOCIATES, INC.
2750 LAKE VILLA DRIVE
METAIRIE, LA 70002
(504) 885-0500
mbuisson@n-yassociates.Com

STRUCTURAL ENGINEER:
ROBERT BOUCHEON
CONSULTING ENGINEER, LLC
1050 S NORMAN C FRANCIS PKWY.
NEW ORLEANS, LA 70125
(504) 304-2312
robertbouchon@aol.com

MECHANICAL & ELECTRICAL ENGINEER (FIRING RANGE):
DAVID C. CODE
GVA ENGINEERING, LLC
2615 EDENBORN AVE. SUITE C
METAIRIE, LA 70002
(504) 780-9330
dcode@gvaengineering.com

MECHANICAL & ELECTRICAL ENGINEER (WASHROOM):
LUCIEN T. VIVIEN & ASSOC., INC.
3510 N. CAUSEWAY BLVD. SUITE 612
METAIRIE, LA 70002
(504) 218-5409
karen@vivienengineers.com

OWNER:
JEFFERSON PARISH LAW ENFORCEMENT DISTRICT
FOUNTAIN PARK CENTRE
1551 CENTRAL PARK BLVD.
HARVEY, LA 70085
(504) 598-5801

INDEX OF DRAWINGS

T-1.1 TITLE SHEET
T-1.2 SYMBOLS & ABBREVIATIONS
T-1.3 BUILDING INFORMATION & GENERAL NOTES

G-2.1 NEW LIFE SAFETY PLAN
G-2.2 EXISTING FLOOR PLAN (FOR REFERENCE)
G-4.1 EXISTING EXTERIOR ELEVATIONS (FOR REFERENCE)
G-4.2 EXISTING EXTERIOR ELEVATIONS & SOFFIT PLAN (FOR REFERENCE)

D-1.1 DEMOLITION SITE PLAN
D-2.1 DEMOLITION FLOOR PLAN
D-3.1 DEMOLITION ROOF PLAN
D-4.1 DEMOLITION EXTERIOR ELEVATIONS
D-4.2 DEMOLITION ENLARGED EXTERIOR ELEVATIONS & SOFFIT PLAN
D-5.1 DEMO BUILDING SECTIONS
D-6.1 DEMOLITION WALL SECTIONS
D-6.2 DEMOLITION WALL SECTIONS

A-1.1 NEW SITE PLAN
A-2.1 NEW FLOOR PLAN
A-2.2 ENLARGED FLOOR PLAN - FIRING RANGE
A-2.3 ENLARGED FLOOR PLAN - SHOWER ROOM

A-3.1 NEW ROOF PLAN
A-3.2 STANDARD METAL ROOF DETAILS
A-3.3 GUTTER & DOWNSPOUT DETAILS

A-4.1 NEW EXTERIOR ELEVATIONS
A-4.2 NEW EXTERIOR ELEVATIONS & SOFFIT PLAN

A-5.1 NEW BUILDING SECTIONS
A-5.3 EXISTING PARTIAL BUILDING SECTIONS

A-6.1 WALL SECTIONS
A-6.2 WALL SECTIONS
A-6.3 WALL DETAILS
A-6.4 BASIS OF DESIGN MANUFACTURER WALL DETAILS

A-7.1 REFLECTED CEILING PLANS
A-7.2 FINISH SCHEDULES
A-7.3 PARTITION TYPES
A-7.4 PARTITION DETAILS
A-7.5 OPENING SCHEDULE
A-7.6 DOOR DETAILS
A-7.7 OVERHEAD COILING DOOR DETAILS

A-8.1 PRE-FABRICATED CANOPY DETAILS

A-12.1 ENLARGED RESTROOM ELEVATIONS
A-12.2 ENLARGED WASHROOM ELEVATIONS
A-12.3 ENLARGED RESTROOM DETAILS
A-12.4 ADA SHOWER STALL DETAILS

S100 ROOF FRAMING PLAN & GENERAL NOTES
S200 CROSS SECTION AND SECTIONS
S300 SECTIONS
S400 SECTIONS
S500 SECTIONS

FIRING RANGE MEP:

MD-1 PARTIAL FIRST FLOOR DEMOLITION PLAN
MD-2 PARTIAL FIRST FLOOR DEMOLITION PLAN
M-1 PARTIAL FIRST FLOOR RENOVATION PLAN
M-2 PARTIAL FIRST FLOOR RENOVATION PLAN
M-3 PARTIAL ROOF PLAN
M-4 DETAILS

ED-1 PARTIAL FIRST DEMOLITION FLOOR
E-1 PARTIAL FIRST FLOOR
E-2 PARTIAL FIRST FLOOR RENOVATION PLAN
E-3 PARTIAL FIRST FLOOR RENOVATION PLAN

WASHROOM MEP:

M-0.0 MECHANICAL SPECIFICATIONS
M-0.1 MECHANICAL SPECIFICATIONS
M-0.2 MECHANICAL SPECIFICATIONS
M-0.3 MECHANICAL SPECIFICATIONS
M-0.4 MECHANICAL SPECIFICATIONS

M-1.0 FLOOR PLAN - HVAC
M-2.0 MECHANICAL SCHEDULES & DETAILS

P-1.0 FLOOR PLAN - PLUMBING
P-2.0 PLUMBING SCHEDULES & DETAILS
P-3.0 PLUMBING RISERS

E-0.0 ELECTRICAL SPECIFICATIONS
E-0.1 ELECTRICAL SPECIFICATIONS
E-1.0 ELECTRICAL SPECIFICATIONS
E-1.1 ELECTRICAL SPECIFICATIONS

BIDDING DOCUMENTS
RELEASED FOR BIDDING,
CONSTRUCTION, RECORDATION,
CONVEYANCE, SALES OR AS THE
BASIS FOR THE ISSUANCE OF A
PERMIT

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY
ME, OR UNDER MY CLOSE PERSONAL SUPERVISION, AND TO THE
BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL
CODE REQUIREMENTS.
I WILL OBSERVE THE WORK.

BY: _____
LICENSE: 4617



N-Y ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
2750 LAKE VILLA DRIVE
METAIRIE, LOUISIANA, 70002
PHONE: (504) 885-0500
FAX: (504) 885-0505

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N-Y Proj No: 21023.01
Date: June 9, 2023
Revised:

TITLE
SHEET

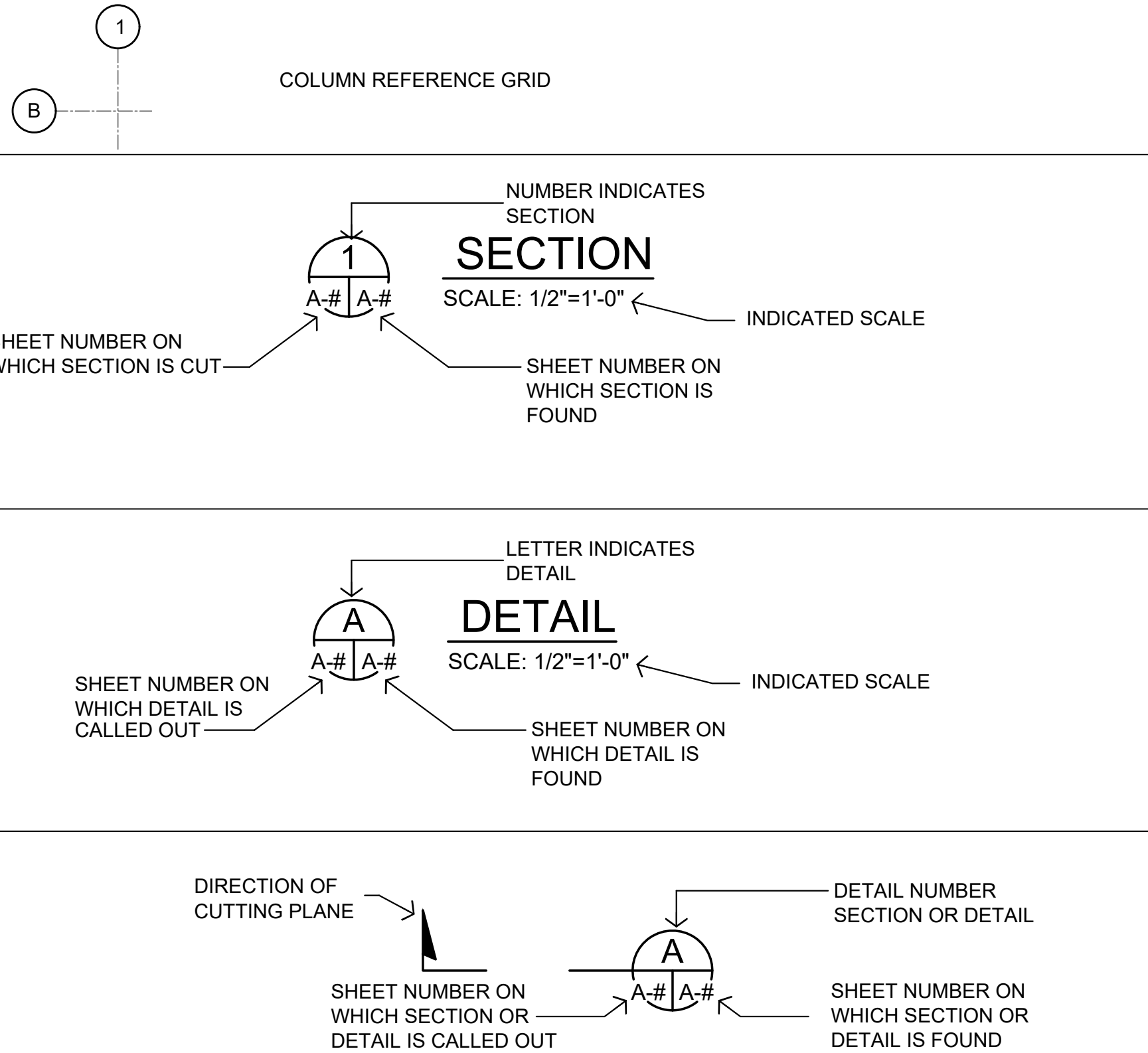
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Sheet 1 of 42

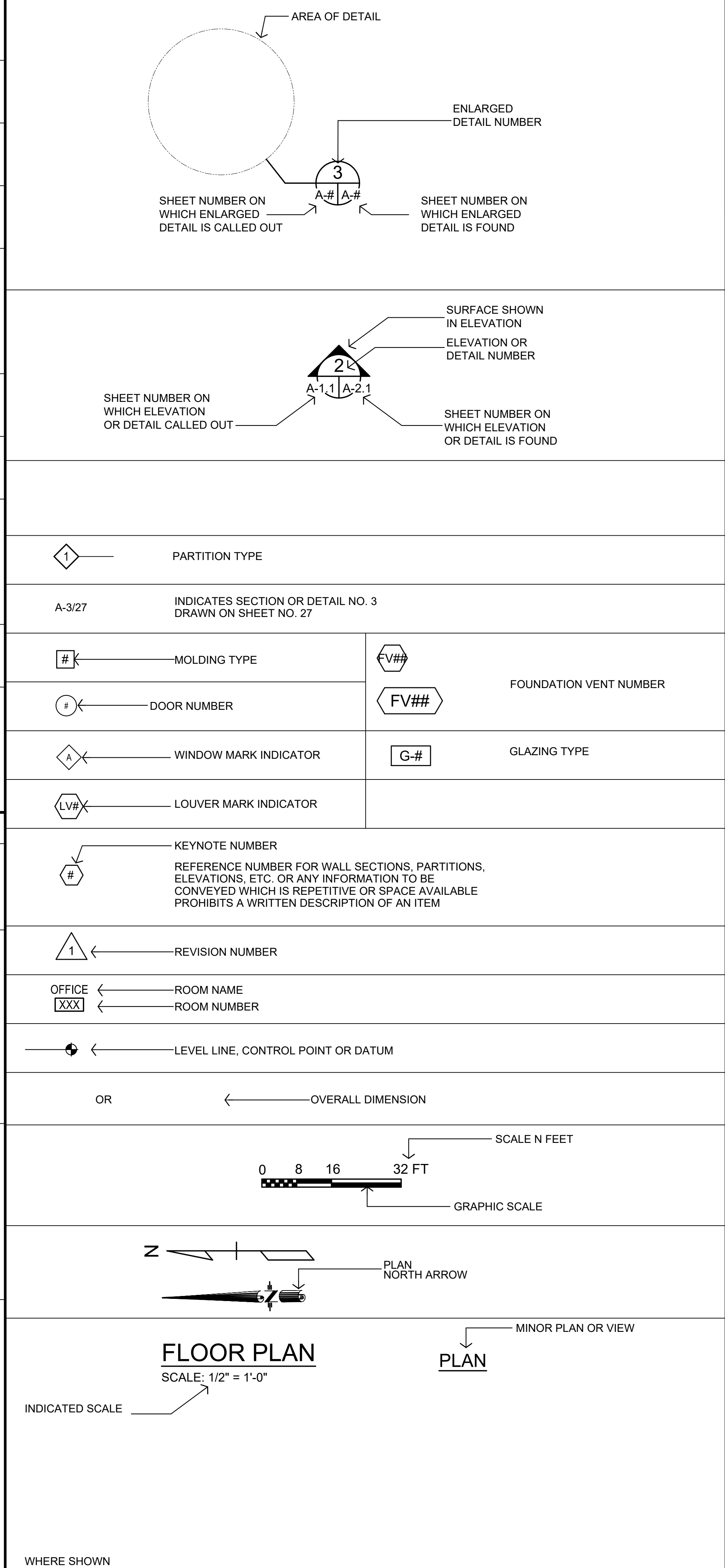
MATERIALS

<u>EARTHWORKS</u>					
	EARTH, COMPACT FILL		POROUS FILL, COMPACT FILL		
<u>CONCRETE</u>					
	CAST-IN-PLACE		MORTAR, STUCCO		
<u>MASONRY</u>					
	OR		CONCRETE MASONRY UNIT		FACE BRICK
<u>METAL</u>					
	ALUMINUM		BRASS, BRONZE		STEEL, OTHER METALS
<u>WOOD</u>					
	FINISH		ROUGH		BLOCKING
	PLYWOOD, LARGE SCALE		PLYWOOD, SMALL SCALE		
<u>GLASS</u>					
	GLASS				
<u>INSULATION</u>					
	BATT		RIGID		
<u>FINISHES</u>					
	ACOUSTIC CLG. TILE		CERAMIC TILE		RESILIENT FLOORING, PLASTIC LAMINATE
	CARPET		GYPSUM WALLBOARD		METAL LATH AND STUCCO
<u>PARTITION INDICATIONS</u>					
	METAL STUD- LARGE SCALE		METAL STUD- SMALL SCALE		
<u>ELEVATION INDICATIONS</u>					
	BRICK, CONCRETE BLOCK		CERAMIC TILE		CONCRETE, GYPSUM WALLBOARD
	GLASS		SHEET METAL		

SYMBOL LEGEND



SYMBOL LEGEND (CONT.)



ABBREVIATIONS

A.B.	ANCHOR BOLT	LB.	POUND	W.	WASTE
A.D.A.	AMERICAN WITH DISABILITIES ACT	LS	LIFE SAFTY	WF	WIDE FLANGE
A.F.F.	ABOVE FINISH FLOOR	LT.	LIGHT	W/	WITH
A.H.U.	AIR HANDLING UNIT	LT. WT.	LIGHT WEIGHT	W/O	WITHOUT
ALUM.	ALUMINUM	LTG.	LIGHTING	WD	WOOD
A.P.	ACCESS PANEL	LV.	LOUVER	W.G.	WHEEL GUARD
ARCH.	ARCHITECTURAL			W.S.	WHEEL STOP
@	AT			W.H.	WATER HEATER
A.T.	ALUMINUM THRESHOLD			W.R.	WATER RESISTANT
		MATL.	MATERIAL	WTR	WATER
B.	BOTTOM	MAX.	MAXIMUM		
B.BD	BULLETIN BOARD	M.B.	MARKER BOARD		
BBR	BASEBOARD RADIATION	MECH.	MECHANICAL		
BD.	BOARD	MET.	METAL		
BLDG.	BUILDING	MFR.	MANUFACTURER		
BLKG.	BLOCKING	MIN.	MINIMUM		
BM.	BEAM	MPB.	MOP BASIN		
BRG.	BEARING	M.O.	MASONRY OPENING		
CB.	CHALKBOARD	M.R.	MOISTURE RESISTANT		
C.D.	CAIRO DATUM	MTD.	MOUNTED		
C.J.	CONTROL JOINT	MTL.	MATERIAL		
C.L.	CENTER LINE	M.T.	MARBLE THRESHOLD		
CLG.	CEILING				
CLO.	CLOSET	N.	NORTH		
CLR.	CLEAR	N.A.	NOT APPLICABLE		
C.M.U.	CONCRETE MASONRY UNIT	N.T.S.	NOT TO SCALE		
COL.	COLUMN	N.I.C.	NOT IN CONTRACT		
CONC.	CONCRETE				
CONT.	CONTINUOUS	OA.	OVERALL		
CORR.	CORRIDOR	O.C.	ON CENTER		
CPT.	CARPET	O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED		
CT.	CERAMIC TILE				
CTR.	COUNTER	O.P.H.	OPPOSITE HAND		
CUH.	CABINET UNIT HEATER	OPP.	OPPOSITE		
CURT.	CURTAIN				
		P.	POLE		
DBL.	DOUBLE	P.C.	POSTER CASE		
DET.	DETAIL	PL.	PLATE		
D.F.	DRINKING FOUNTAIN	PLAS. LAM.	PLASTIC LAMINATE		
DIA.	DIAMETER	PLN.	PLAN		
DIM.	DIMENSION	PNL.	PANEL		
DIR.	DIRECTORY	PNT.	PAINT		
DN.	DOWN	PR.	PAIR		
DR.	DOOR	P.T.	PRESSURE TREATED		
D.S.	DOWNSPOUT	P.T.	PROJECTION SCREEN		
DWG.	DRAWINGS	P.S.	PAVER TILE		
		PV.T.	QUARRY TILE		
E.	EAST	Q.T.			
EA.	EACH				
E.J.	EXPANSION JOINT	RE:	REFER TO:		
EL.	ELEVATION	REFL.	REFLECTED		
ELEC.	ELECTRICAL	REINF.	REINFORCING		
EMER.	EMERGENCY	RM.	ROOM		
EQ.	EQUAL	R.O.	ROUGH OPENING		
E.W.	EACH WAY				
E.W.C.	ELECTRIC WATER COOLER	S.	SOUTH		
EXT.	EXTERIOR	SCHED.	SCHEDULE		
		S.F.D.	STORM FLOOR DRAIN		
F.A.P.	FIRE ALARM PANEL	SH.	SHOWER		
F.A.I.	FRESH AIR INTAKE	S.A.P.	SUSPENDED ACOUSTIC PANEL		
F.D.	FLOOR DRAIN	SHT.	SHEET		
F.E.C.	FIRE EXTINGUISHER & CABINET	SIM.	SIMILAR		
F.E.	FIRE EXTINGUISHER	SPEC.	SPECIFICATIONS		
F.E.C.	FIRE EXTINGUISHER CABINET	SQ.	SQUARE		
F.F.	FINISH FLOOR	STD.	STANDARD		
FIN.	FINISHED	STLS. STL. OR S.S	STAINLESS STEEL		
FL.	FLOOR	STO.	STORAGE		
FT.	FOOT OR FEET	STRUC.	STRUCTURAL		
FTG.	FOOTING	SUSP.	SUSPENDED		
F.R.	FIRE RATED	SYS.	SYSTEM		
FSCWD.	FLUSH SOLID CORE WOOD DOOR				
		TB.	TACKBOARD		
GA.	GAUGE	TEL.	TELEPHONE		
GALV.	GALVANIZED	TEMP.	TEMPERED		
GL.	GLASS	T.O.C.M.U.	TOP OF CONC. MASONRY UNIT		
GND.	GROUND	T.O.S.	TOP OF STEEL		
GYP.	GYPSUM	T.S.	TUBE STEEL		
		TYP.	TYPICAL		
H.B.	HOSE BIB	U.O.N.	UNLESS OTHERWISE NOTED		
H.C.	HANDICAP	UR.	URINAL		
HEX.	HEXAGONAL				
H.M.	HOLLOW METAL	V.	VINYL		
HORIZ.	HORIZONTAL	V.B.	VENETIAN BLIND		
H.P.D.L.	HIGH PRESSURE DECORATIVE LAMINATE	V.C.T.	VINYL COMPOSITION TILE		
		VENT.	VENTILATION		
HR.	HOUR	VERT.	VERTICAL		
HT.	HEIGHT	V.T.J.S.	VINYL TILE-CARPET JOINER STRIP		
HTR.	HEATER	V.T.R.	VENT THRU ROOF		
H.V.A.C.	HEATING, VENTILATION & AIR CONDITIONING	V.T.R.S.	VINYL TILE REDUCER STRIP		
H.W.	HOT WATER				
INSUL.	INSULATION				
JAN.	JANITOR				
JST.	JOIST				
KO.	KNOCKOUT				
L.	LONG				
LAM.	LAMINATED OR LAMINATE				
LAV.	LAVATORY				

JEFFERSON PARISH SHERIFF'S OFFICE

Warehouse Tornado Repairs

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N-Y Proj No: 21023.01
Date: June 9, 2023
Revised:

SYMBOLS & ABBREVIATIONS

DRAWN BY: MS
CHECKED BY: MB
DESIGNED BY: MS

T-1.2

GENERAL NOTES:

1.

THESE NOTES AND SPECIFICATIONS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT UNLESS THERE ARE SPECIFIC INDICATIONS OTHERWISE. NOTES AND SPECIFICATIONS ARE CONTINUED THROUGHOUT THE PLANS, AND ARE CONSIDERED COMPLEMENTARY TO THE SPECIFICATIONS.
2.

CONTRACTOR TO NOTIFY DESIGN ENGINEER, A MINIMUM OF ONE WEEK PRIOR TO START OF CONSTRUCTION.
3.

CONTRACTOR SHALL TAKE REASONABLE MEASURES TO AVOID UNNECESSARY NOISE APPROPRIATE FOR THE AMBIENT SOUND LEVELS IN THE AREA DURING WORKING HOURS. ALL CONSTRUCTION MACHINERY AND VEHICLES SHALL BE EQUIPPED WITH PRACTICAL SOUND MUFFLING DEVICES, AND OPERATED IN A MANNER TO CAUSE THE LEAST NOISE, CONSISTENT WITH EFFICIENT PERFORMANCE OF THE WORK.
4.

CONTRACTOR SHALL TAKE REASONABLE MEASURES TO AVOID UNNECESSARY DUST. SURFACES SUBJECT TO CREATING DUST SHALL BE KEPT MOIST WITH WATER OR BY APPLICATION OF CHEMICAL DUST SUPPRESSANT. DUSTY MATERIAL IN PILES OR IN TRANSIT SHALL BE COVERED TO PREVENT BLOWING.
5.

CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL (3) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION.
6.

CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ALL DIRT OFF YARD PAVING AS A RESULT OF HIS CONSTRUCTION ACTIVITIES DURING CONTRACT PERIOD.
7.

CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ADJOINING PAVEMENT WHICH RESULTED FROM HIS CONSTRUCTION ACTIVITIES.
8.

IN THE EVENT OF DISCREPANCIES, CONFLICT OR OMISSIONS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, AND OBTAIN WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.
9.

CONTRACTOR SHALL HAVE THE COMPLETE AND SOLE RESPONSIBILITY FOR THE JOB SITE INCLUDING THE SAFETY OF PERSONS AND PROPERTY. ANY INSPECTION BY THE ENGINEER IS TO DETERMINE COMPLIANCE WITH PLANS AND SPECIFICATIONS AND WILL NOT INCLUDE ANY REVIEW OF THE ADEQUACY OF THIS CONTRACTOR'S SAFETY MEASURES.
10.

THE CONTRACTOR SHALL COMPLY WITH THE OWNER'S PERSONAL PROTECTIVE EQUIPMENT (PPE) POLICIES AT ALL TIMES THROUGHOUT THE PROJECT.
11.

UNLESS DIRECTED OTHERWISE BY THE OWNER, THE CONTRACTOR SHALL CONFINE HIS STORAGE AND PARKING AREAS TO THE LIMITS INDICATED BY THE OWNER. SHOULD THE CONTRACTOR REQUIRE ADDITIONAL SPACE, HE SHALL RENT IT WITHOUT ANY ADDITIONAL PAYMENT FROM THE OWNER.
12.

CONTRACTOR SHALL MAINTAIN A CLEAN AND NEAT JOBSITE AND SHALL DISPOSE OF TRASH AND WASTE MATERIALS REGULARLY AND AS REQUESTED BY THE OWNER, PLANT OPERATOR, AND/OR ENGINEER.
13.

THESE DRAWINGS AS SCALED FOR PRODUCTION ON 24"x36" MEDIA. PRINTS ON OTHER SIZED MEDIA SHALL BE SCALED ACCORDINGLY.
14.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ODOR CONTROL AND INSECT CONTROL DURING THE ENTIRE CONSTRUCTION DURATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY ODOR AND INSECTS COMPLAINTS DUE TO THEIR CONSTRUCTION ACTIVITIES.
15.

CONTRACTOR SHALL NOT INTERFERE WITH THE OWNER'S DAILY OPERATIONS.
16.

CONTRACTOR SHALL COORDINATE WITH THE OWNER'S DESIGNATED REPRESENTATIVE.

CONSTRUCTION CONSTRAINTS:

1.

THE WORK SHALL BE SCHEDULED, SEQUENCED, AND PERFORMED IN A MANNER WHICH MINIMIZES DISRUPTION TO THE OPERATION AND MAINTENANCE OF THE EXISTING FACILITIES.
2.

CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SEQUENCE AT LEAST 10 DAYS PRIOR TO BEGINNING OF WORK.
3.

THE SITE'S OPERATION AND MAINTENANCE PERSONNEL WILL COORDINATE WITH THE CONTRACTOR. HOWEVER CERTAIN OPERATIONS MAY ONLY BE PERMISSIBLE OUTSIDE OF NORMAL WORKING HOURS AND THERE WILL BE NO ADDITIONAL COMPENSATION PAID TO THE CONTRACTOR FOR THIS.
4.

OTHER WORK WILL BE CONDUCTED AT THE SITE BY SEPARATE CONTRACTORS DURING THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH FACILITY'S OPERATORS AND OTHER CONTRACTORS.
5.

ALL TEMPORARY ITEMS REQUIRED FOR CONSTRUCTION UNDER THE CONTRACTOR'S CONSTRUCTION SEQUENCE SHALL BE PROVIDED BY THE CONTRACTOR AND WILL REMAIN THE PROPERTY OF THE CONTRACTOR.

SECURITY:

1.

THE CONTRACTOR SHALL COORDINATE WITH ALL EXISTING SECURITY MEASURES AND SECURITY FORCES.
2.

THE OWNER WILL CONTROL ENTRANCE OF PERSONS AND VEHICLES TO THE SITE. CONTRACTOR SHALL COORDINATE WITH OWNER'S ESTABLISHED ENTRY AND SECURITY POLICIES.

TEMPORARY ENVIRONMENTAL CONTROLS:

1.

CONTRACTOR SHALL COMPLY WITH TEMPORARY ENVIRONMENTAL CONTROLS AS PER ALL NATIONAL, STATE AND LOCAL LAWS AND ORDINANCES.
2.

CONTRACTOR SHALL DEVELOP AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPP). CONTRACTOR TO MAINTAIN THESE MEASURES UNTIL PROJECT CLOSEOUT.

UTILITY DIRECTORY:

1.

CONTRACTOR SHALL CONTACT EACH AGENCY AND COMPANY RELATIVE TO THE EXACT LOCATION OF IT'S UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATION SHOWN. AT LEAST 48 HOURS PRIOR TO EXCAVATING, THE CONTRACTOR SHALL CALL TO MARK THE UTILITIES THROUGH THE CONSTRUCTION AREA. EXISTING UTILITIES SHALL BE MARKED WITH SPRAY PAINT OR STAKES IN THE FIELD PRIOR TO EXCAVATION.

ENGINEERING LAYOUT:

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL MEASUREMENTS AND GRADES PRIOR TO BEGINNING OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE PROJECT CENTERLINE AND ADDITIONAL TEMPORARY BENCH MARKS FOR CONSTRUCTION PURPOSES BEFORE DESTROYING EXISTING MONUMENTS/NAILS/CROSS CUTS, ETC.
2.

THE MEASUREMENTS, EQUIPMENT ARRANGEMENTS, THE LINES AND GRADES SHOWN ON THE PLANS MAY BE VARIED SLIGHTLY BY THE ENGINEER IN THE FIELD IF CONDITIONS JUSTIFY SUCH A VARIATION.

EXISTING UTILITIES:

1.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE STARTING CONSTRUCTION.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OF EXISTING UTILITIES WHICH OCCURS DURING CONSTRUCTION AND SHALL IMMEDIATELY REPORT ANY DAMAGE TO THE UTILITY ENTITIES. ALL REPAIRS OF THE DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR. ALL REPAIR COSTS SHALL BE BORNE BY THE CONTRACTOR.

EXISTING BUILDING USE INFORMATION:

1.

BUILDING USE DESCRIPTION: EXISTING BUILDING CONSISTS OF FACILITIES FOR THE JEFFERSON PARISH SHERIFF'S DEPARTMENT INCLUDING ACADEMY TRAINING, PROPERTY & EVIDENCE STORAGE, SWAT TRAINING, EMERGENCY WASHROOM, AND FIRING RANGE.
- A.

ACADEMY TRAINING (NO WORK): EXISTING POLICE RECRUIT TRAINING CLASSROOM, ADMINISTRATIVE OFFICES, LUNCH ROOM, SHOWER ROOMS, AND GYMNASIUM.
- B.

PROPERTY & EVIDENCE WAREHOUSE (NO WORK): EXISTING RESTRICTED STORAGE FOR SEIZED PROPERTY AND EVIDENCE.
- C.

EMERGENCY WASHROOM (NEW INTERIOR BUILD-OUT): NEW EMERGENCY LAUNDRY AND SHOWERS FOR HURRICANE AND WIND EVENTS. THIS IS AN INTERIOR BUILD-OUT INSIDE OF THE WAREHOUSE.
- D.

SWAT TRAINING (NO WORK): EXISTING INDOOR MOCK-UP FOR BREACHING TRAINING.THERE IS LARGE VEHICLE STORAGE IN THE "SWAT TRAINING" AREA.
- E.

FIRING RANGE (RENOVATION DUE TO TORNADO DAMAGE): EXISTING INDOOR FIRE ARM PRACTICE RANGE. INTERIOR FINISHES.
- GROSS ENCLOSED BUILDING SF: 100,563 GROSS SF
- NET ENCLOSED SQUARE FOOTAGE:
- EMERGENCY WASHROOM (NEW INTERIOR BUILD-OUT): 1,293 NET SF
- SWAT TRAINING 19,632 NET SF
- FIRING RANGE (RENOVATED AREA): 25,616 NET SF
- STORAGE 1 (NO WORK): 2,496 NET SF
- STORAGE 2 (NO WORK): 7,017 NET SF
- TOTAL 35,129 NET SF
- TRAINING ACADEMY (NO WORK): 14,672 NET SF
- PROPERTY & EVIDENCE WAREHOUSE (NO WORK): 28,118 NET SF
- TOTAL ENCLOSED NET SF : 98,844 NET SF

APPLICABLE CODE EDITION

LIFE SAFETY CODE: NFPA 101	2021
INTERNATIONAL BUILDING CODE	2021
NATIONAL ELECTRIC CODE	2020
ADA-ABA	2010

PROJECT INFORMATION

OCCUPANCY TYPE:	BUSINESS
SECONDARY OCCUPANCY TYPE	STORAGE
BUILDING SQUARE FOOTAGE:	
GROSS ENCLOSED BUILDING SF:	100,563 GROSS SF
NET ENCLOSED SQUARE FOOTAGE:	
EMERGENCY WASHROOM (NEW INTERIOR BUILD-OUT):	1,293 NET SF
SWAT TRAINING	19,632 NET SF
FIRING RANGE (RENOVATED AREA):	25,616 NET SF
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TRAINING ACADEMY (NO WORK):	14,672 NET SF
PROPERTY & EVIDENCE WAREHOUSE (NO WORK):	28,118 NET SF
TOTAL ENCLOSED NET SF :	98,844 NET SF

FIRE PROTECTION:

SPRINKLERS: (EXISTING PARTIALLY SPRINKLERED)
FIRE ALARM SYSTEM: (EXISTING)
PORTABLE FIRE EXTINGUISHERS: (EXISTING)

ZONING:

GARDERE PLANTATION SUBDIVISION
LOT: S1
SQUARE: 00
SECTION: 00
ZONING: C2
FLOOD ZONE: X

SCOPE OF WORK

DEMOLITION:

1.

PHASE 1: ALL WORK IN THE FIRING RANGE TO BE COMPLETED IN THE FIRST 6 MONTHS OF THE JOB INCLUDING ROOFING, INTERIOR RENOVATIONS, HVAC, AND ELECTRICAL. THE NEW CHILLERS WILL NOT BE INSTALLED UNTIL THEY ARE AVAILABLE AND WILL NOT BE SUBJECT TO ANY LIQUIDATED DAMAGES FOR THAT WORK.
2.

TEMPORARY ROOFING: REMOVE AND DISPOSE OF TEMPORARY ROOFING COMPLETE.
3.

METAL ROOFING: DEMOLISH REMAINING PRE-FINISHED METAL ROOFING, FASCIA, SOFFITS AND TRIM. DEMOLISH REMAINING METAL ROOF FRAMING AND, REMNANTS OF EXISTING METAL ROOF FRAMING. PATCH PENETRATIONS TO MATCH EXISTING MATERIAL. VERIFY EXISTING CONSTRUCTION IN FIELD.
4.

DEMOLISH METAL CANOPY: DEMOLISH EXISTING METAL VEHICLE CANOPY, CANOPY STRUCTURE, AND BOLLARDS COMPLETE W/ FOOTINGS. DEMO MISCELLANEOUS MAN-DOOR CANOPIES. INFILL CONCRETE PAVING TO MATCH EXISTING.
5.

DEMO GYP. BD. WALLS AND DOORS: DEMO MISCELLANEOUS GYP. BD. AND DOORS AS INDICATED ON THE DEMOLITION PLAN.
6.

CUT GYP BD.: CUT GYP. BD. TO 2' ABOVE FINISHED FLOOR ALL WALLS. REPLACE GYP. BD. AND REFINISH ALL WALLS (SEE ARCHITECTURAL PLAN).

RENOVATION:

1.

PRE-FINISHED METAL ROOFING & SIDING: PROVIDE NEW ROOF STRUCTURE PER STRUCTURAL DRAWINGS, SLOPED PRE-FINISHED METAL ROOFING, SOFFIT, FASCIA &TRIM, AND COLUMN COVERS, AS DETAILED ON THE DRAWINGS. DETACH EXISTING PLUMBING AND ELECTRICAL LINES AND EQUIPMENT. RE-INSTALL ACTIVE LINES AND EQUIPMENT.
2.

FIRING RANGE: RENOVATE EXISTING FIRING RANGE PER DRAWINGS. RELOCATE ONE EXISTING FIRE EXTINGUISHER CABINET AND ONE EXTINGUISHER WHERE DIRECTED BY ARCHITECT.
3.

WASHROOM: PROVIDE NEW INTERIOR BUILD-OUT FOR WASHROOM INSIDE OF THE EXISTING WAREHOUSE.
4.

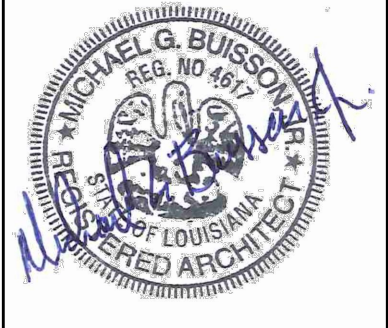
ELASTOMERIC COATING: RE-COAT ALL EXISTING PRE-CAST CONCRETE WALL PANELS. DETACH EXISTING PLUMBING AND ELECTRICAL LINES AND RE-INSTALL ACTIVE LINES AFTER RE-COATING WITH NEW ELASTOMERIC COATING. RE-CAULK ALL EXISTING PRE-CAST PANEL EXPANSION JOINTS. RE-CAULK ALL EXISTING ALUMINUM STOREFRONT AND HOLLOW METAL DOORS, AND PLUMBING AND ELECTRICAL PENETRATIONS. ELECTRICAL SERVICE EQUIPMENT AND TRANSFORMERS TO REMAIN IN PLACE (DO NOT REMOVE ELECTRICAL SERVICE EQUIPMENT AND TRANSFORMERS TO RE-COAT THE PRE-CAST CONCRETE PANELS.)
5.

DEMO EXISTING CANOPY AND BOLLARDS: DEMO EXISTING CANOPY, CANOPY POSTS, CANOPY FOOTINGS, BOLLARDS AND BOLLARD FOOTINGS COMPLETE. INFILL TO MATCH EXISTING PARKING LOT.
6.

PARKING LOT STRIPING: RE-STRIPLE MISCELLANEOUS PORTION OF PARKING SPACES AFTER REMOVAL OF VEHICLE CANOPY AND BOLLARDS AS INDICATED ON THE DRAWINGS.
7.

CLOSED-CELL SPRAY-FOAM INSULATION: SEAL ALL PENETRATIONS THROUGH THE ORIGINAL MEMBRANE ROOF WITH CLOSED-CELL SPRAY-FOAM INSULATION.
8.

ROOF PENETRATIONS: COORDINATE ALL ROOF PENETRATIONS AND ROOF CURBS WITH THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.



N-Y ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
2750 LAKE VILLA DRIVE
METairie, LOUISIANA, 70002
PHONE:(504)885-6500
FAX:(504)885-6505

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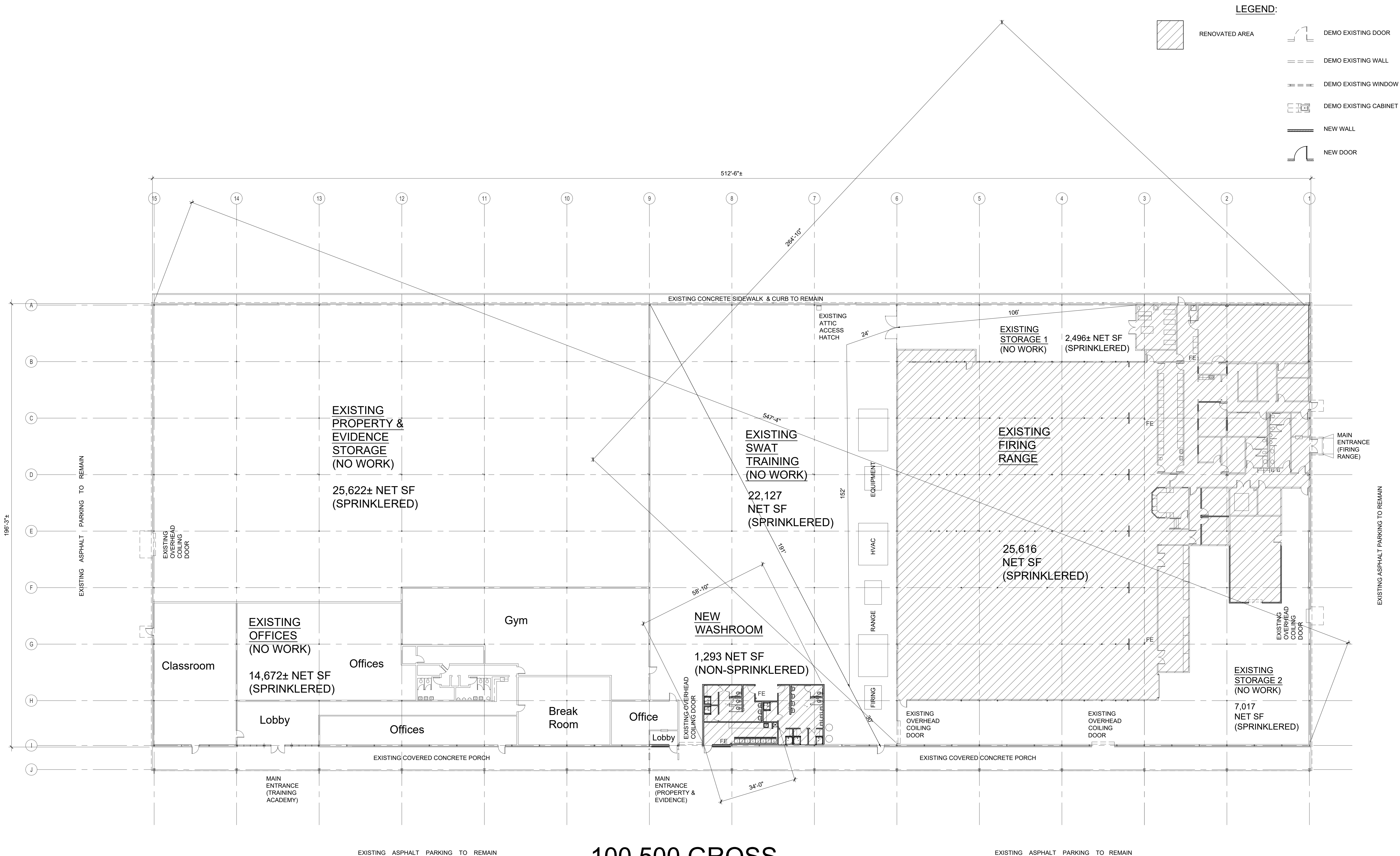
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BUILDING
INFORMATION
& GENERAL
NOTES

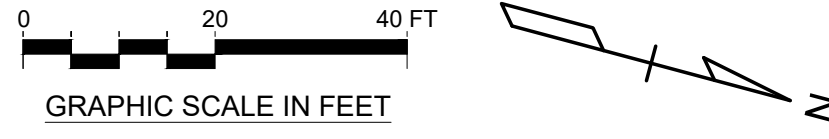
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T-1.3



100,500 GROSS
BUILDING SF

LIFE SAFETY PLAN
SCALE: 1"=20'-0"



- LEGEND:
- RENOVATED AREA
 - DEMO EXISTING DOOR
 - DEMO EXISTING WALL
 - DEMO EXISTING WINDOW
 - DEMO EXISTING CABINET
 - NEW WALL
 - NEW DOOR



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PROGRAM & PROJECT MANAGERS
7750 LAKE VELA DRIVE
METairie, LOUISIANA 70002
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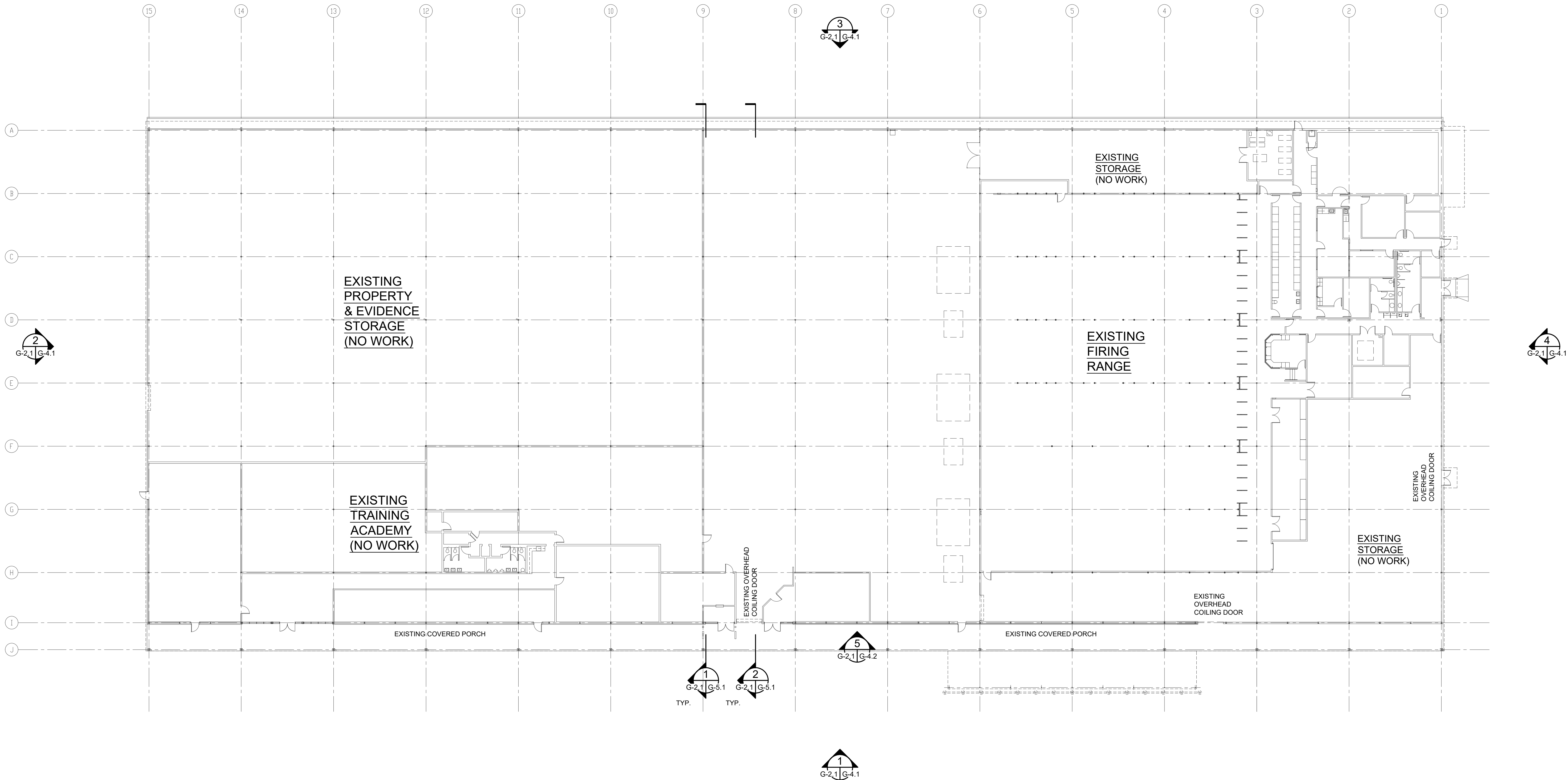
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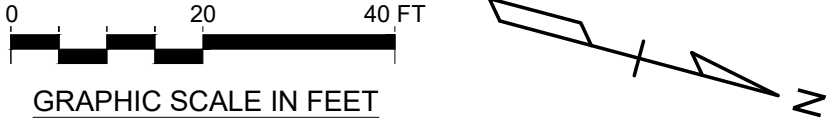
**NEW LIFE
SAFETY
PLAN**

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G-2.1
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EXISTING FLOOR PLAN
SCALE: 1"=20'-0"





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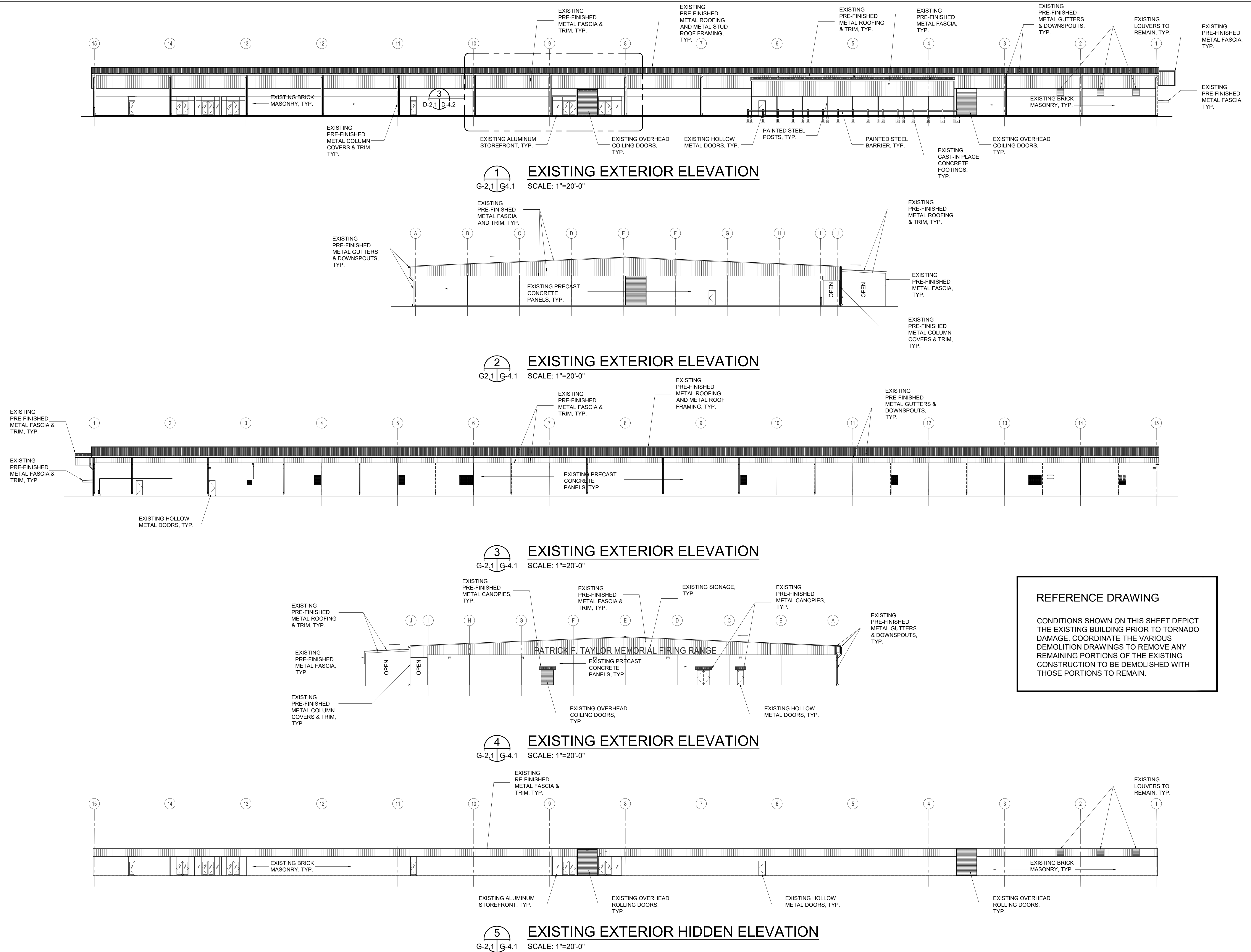
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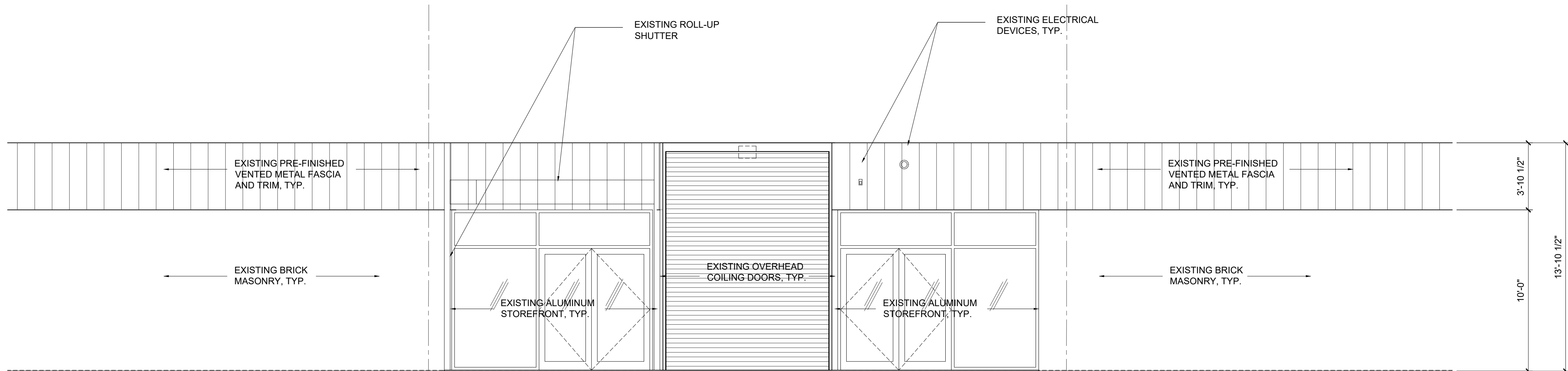
EXISTING INTERIOR ELEVATIONS

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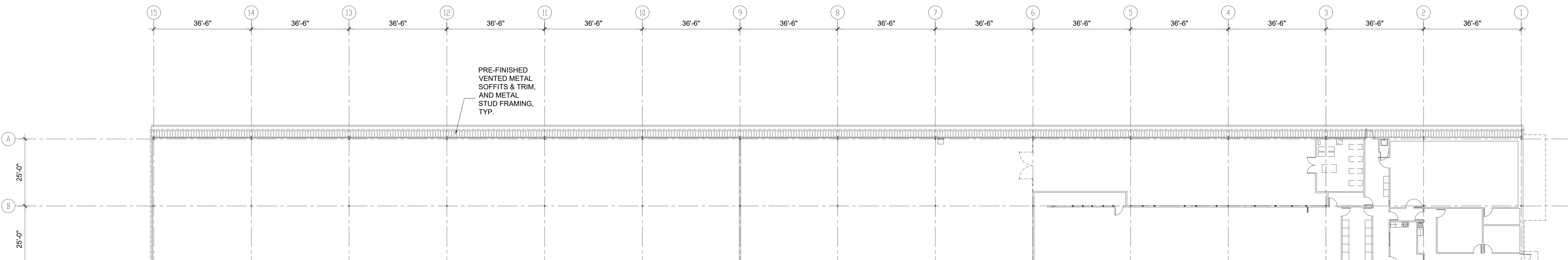
G-4.1

6 of 42

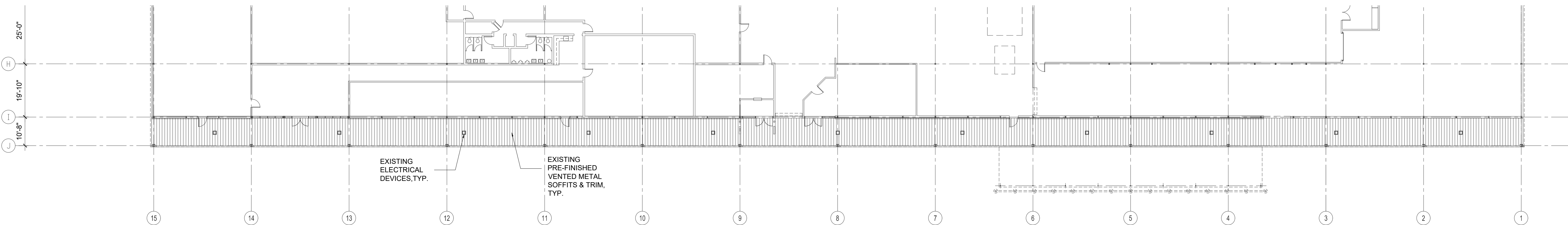




3 TYPICAL EXISTING ENLARGED EXTERIOR HIDDEN ELEVATION
G-4.1 | G-4.2 SCALE: 1/4"=1'-0"



2 EXISTING SOFFIT PLAN (REAR)
G-4.1 | G-4.2 SCALE: 1"=240'-0"



1 EXISTING SOFFIT PLAN (FRONT)
G-4.1 | G-4.2 SCALE: 1"=240'-0"

REFERENCE DRAWING

CONDITIONS SHOWN ON THIS SHEET DEPICT THE EXISTING BUILDING PRIOR TO TORNADO DAMAGE. COORDINATE THE VARIOUS DEMOLITION DRAWINGS TO REMOVE ANY REMAINING PORTIONS OF THE EXISTING CONSTRUCTION TO BE DEMOLISHED WITH THOSE PORTIONS TO REMAIN.



N-Y ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
7750 LAKE VELA DRIVE
METairie, LOUISIANA 70002
PHONE: 504.885-0500
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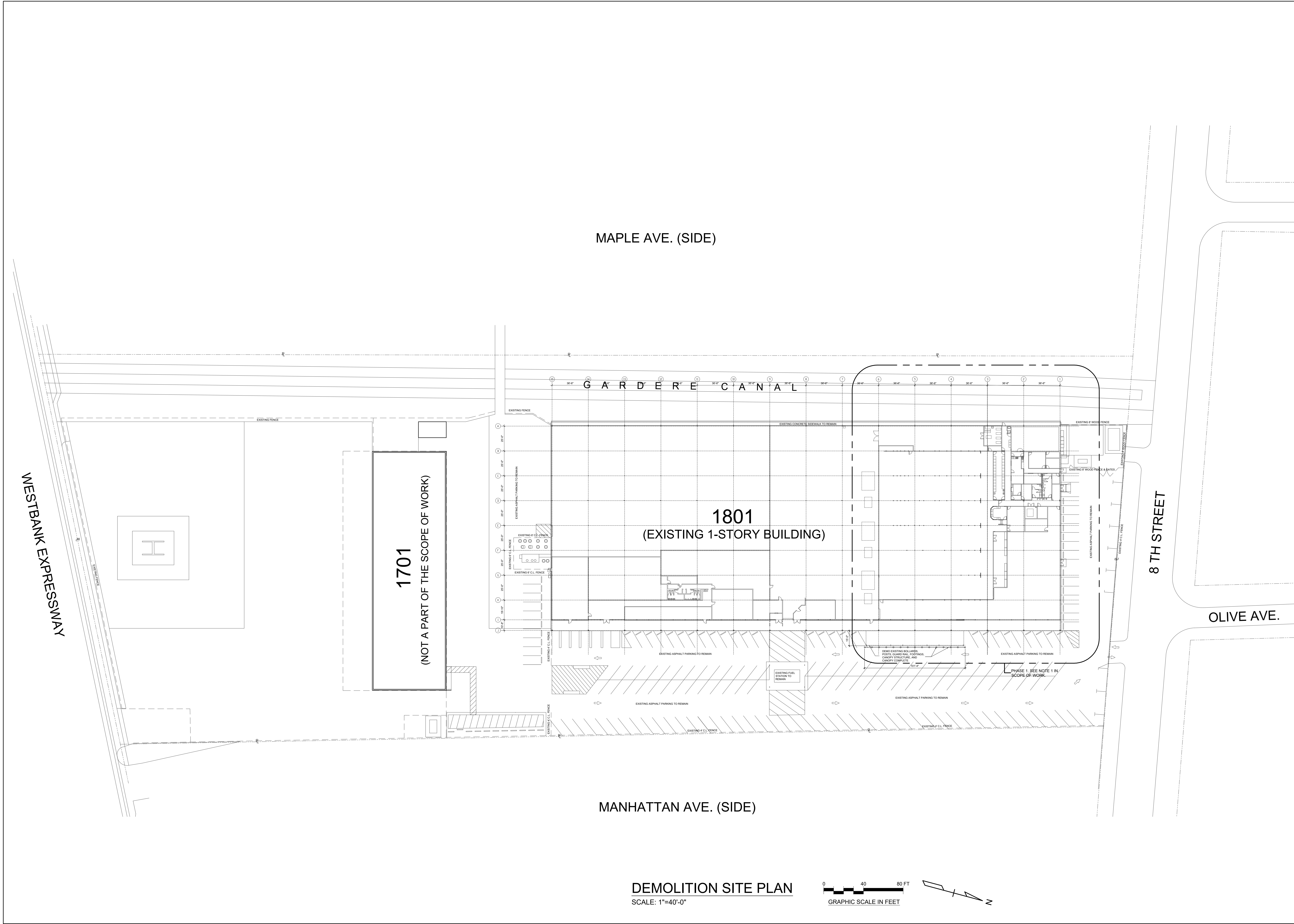
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EXTERIOR
ELEVATIONS &
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G-4.2

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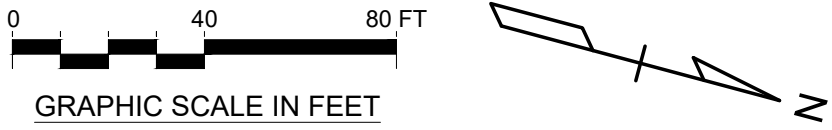
MAPLE AVE. (SIDE)

MANHATTAN AVE. (SIDE)

8 TH STREET

OLIVE AVE.

DEMOLITION SITE PLAN
SCALE: 1"=40'-0"



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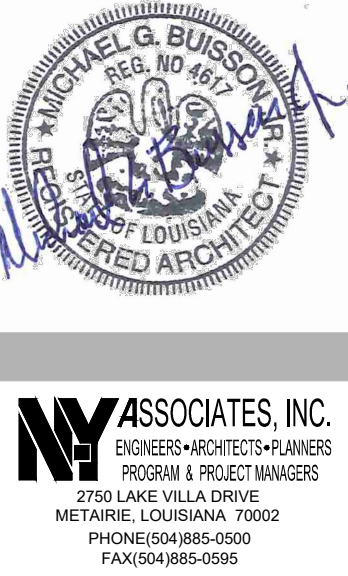
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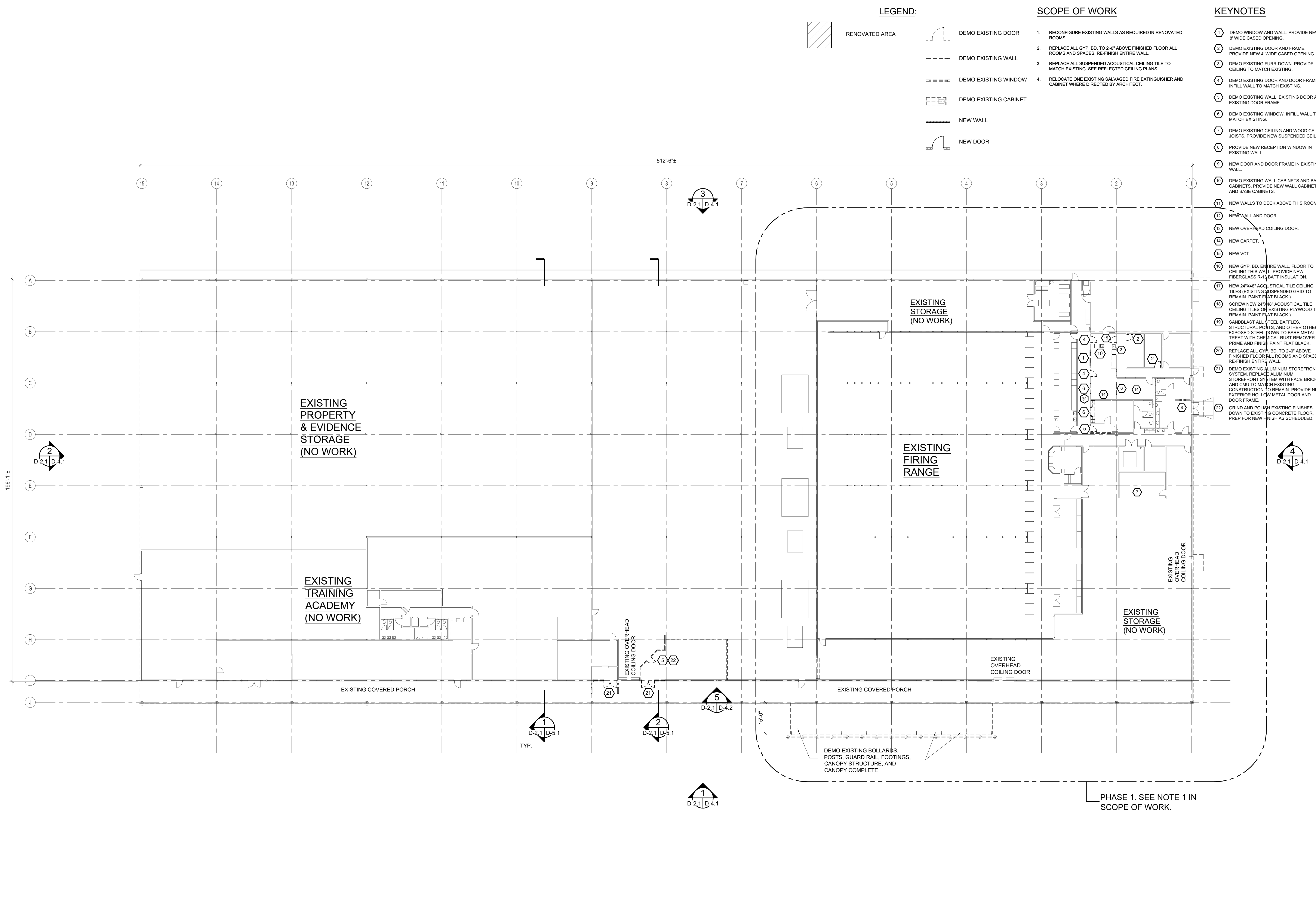
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DEMOLITION
SITE
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D-1.1
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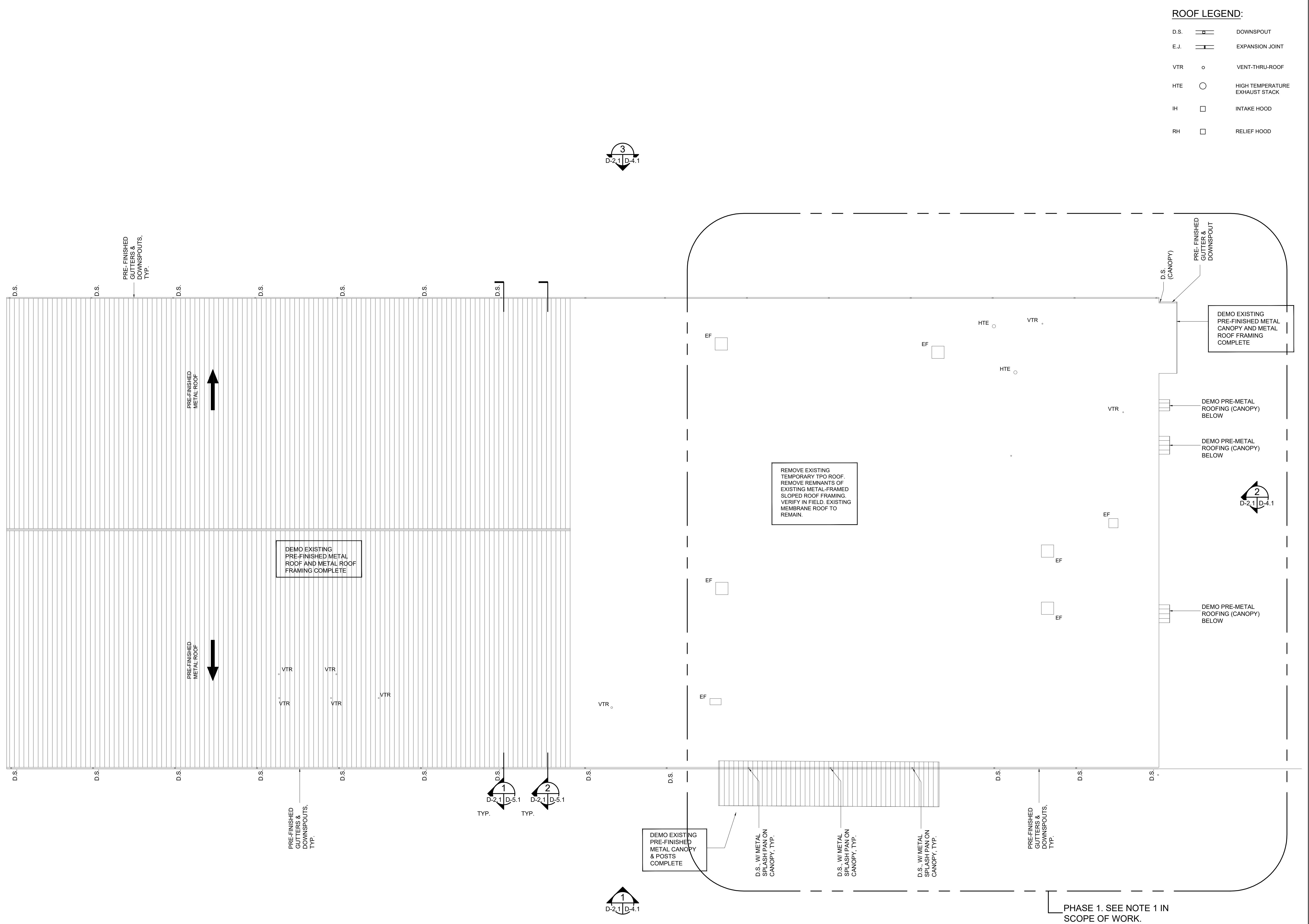
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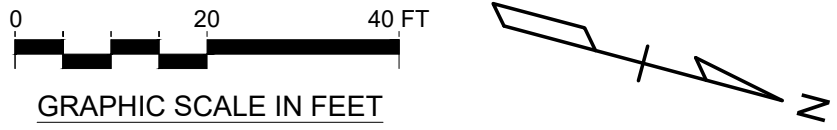
3.1

et 10 of 42



DEMOLITION ROOF PLAN

SCALE: 1"=20'-0"





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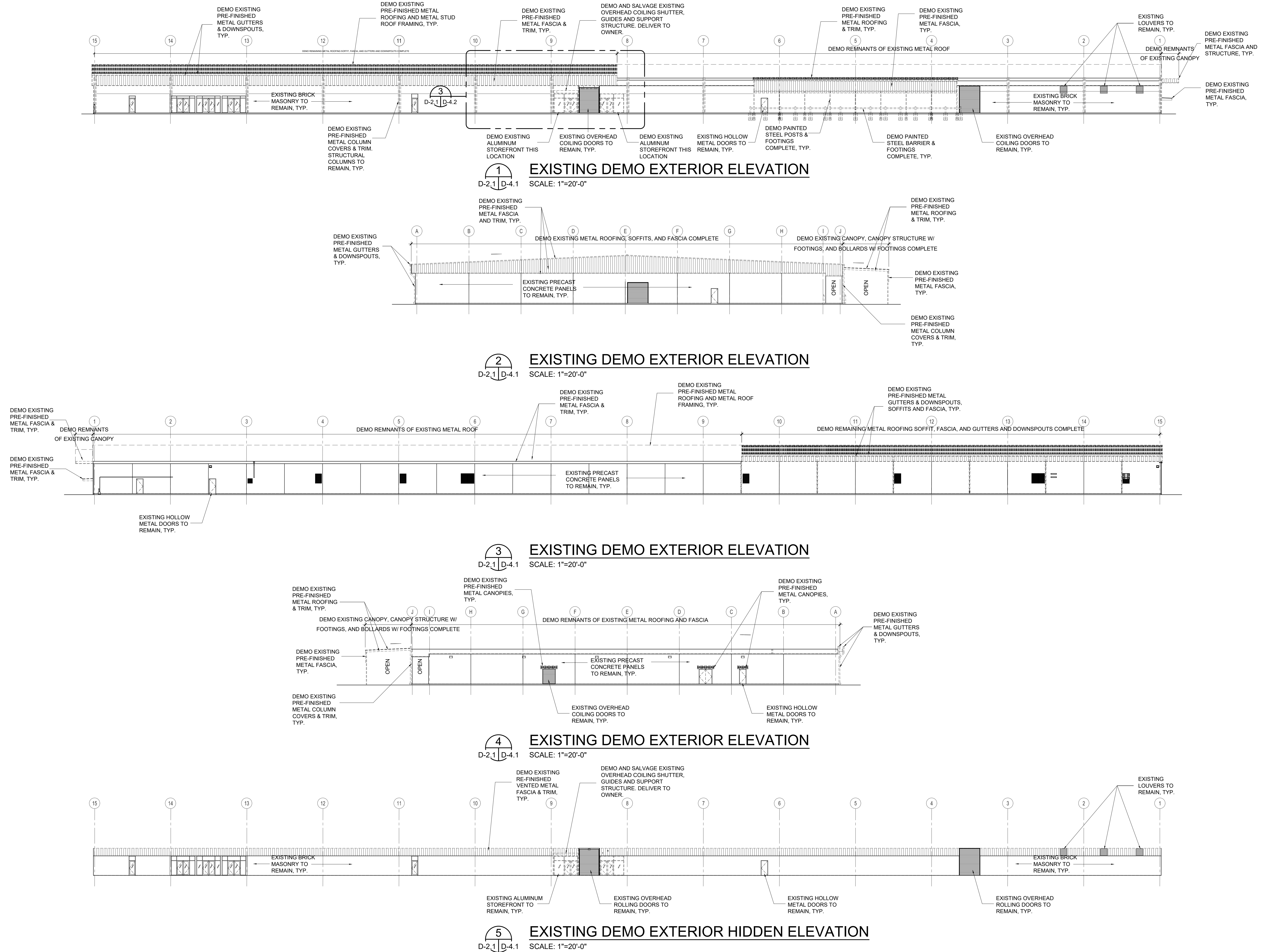
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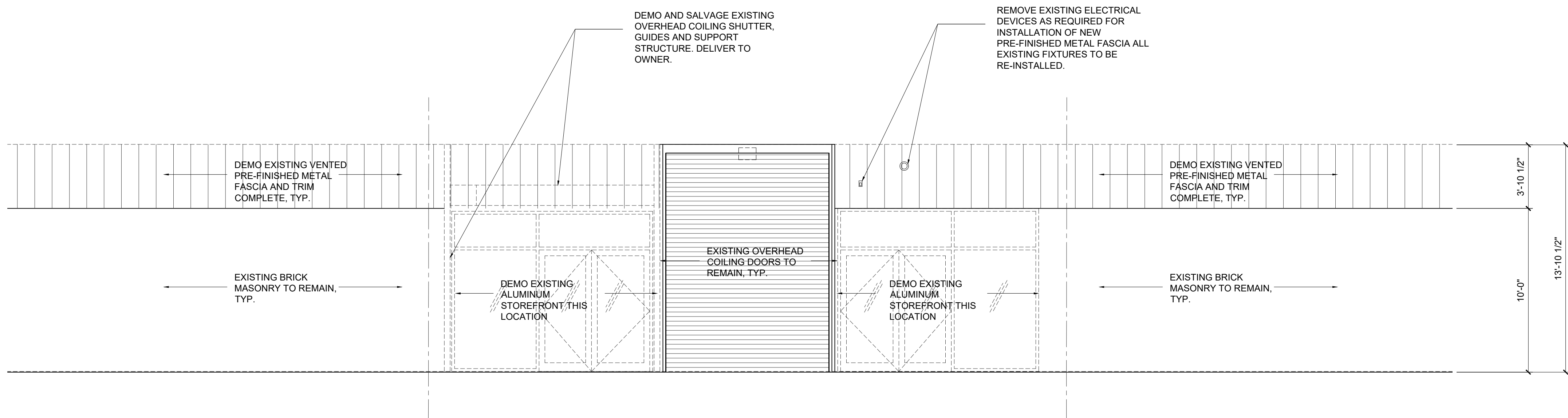
DEMOLITION
EXTERIOR
ELEVATIONS

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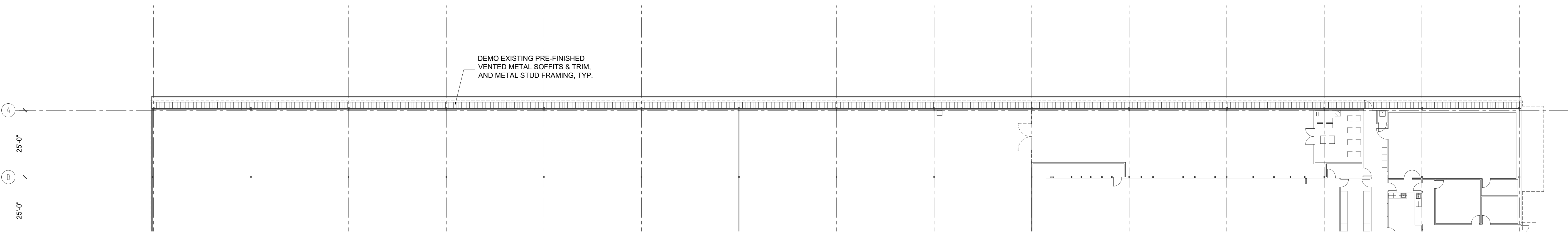
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Page 11 of 42

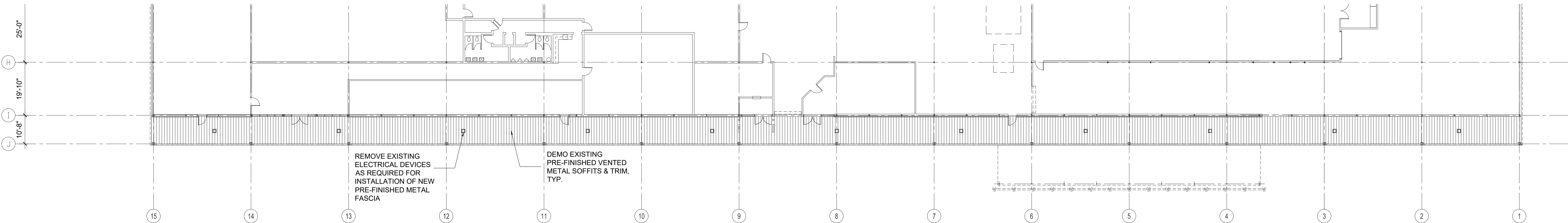




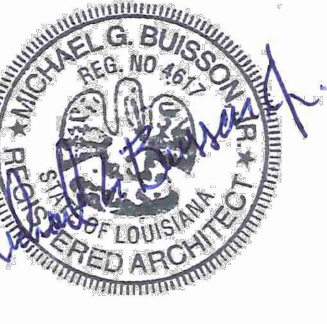
3 **TYPICAL EXISTING ENLARGED DEMO EXTERIOR HIDDEN ELEVATION**
 D-4.1 | D-4.2 SCALE: 1/4"=1'-0"



2 **EXISTING DEMO SOFFIT PLAN**
 D-4.1 | D-4.2 SCALE: 1"=240'-0"



1 **EXISTING DEMO SOFFIT PLAN**
 D-4.1 | D-4.2 SCALE: 1"=240'-0"



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 ENGINEERS-ARCHITECTS-PLANNERS
 PROGRAM & PROJECT MANAGERS
 7750 LAKE VELA DRIVE
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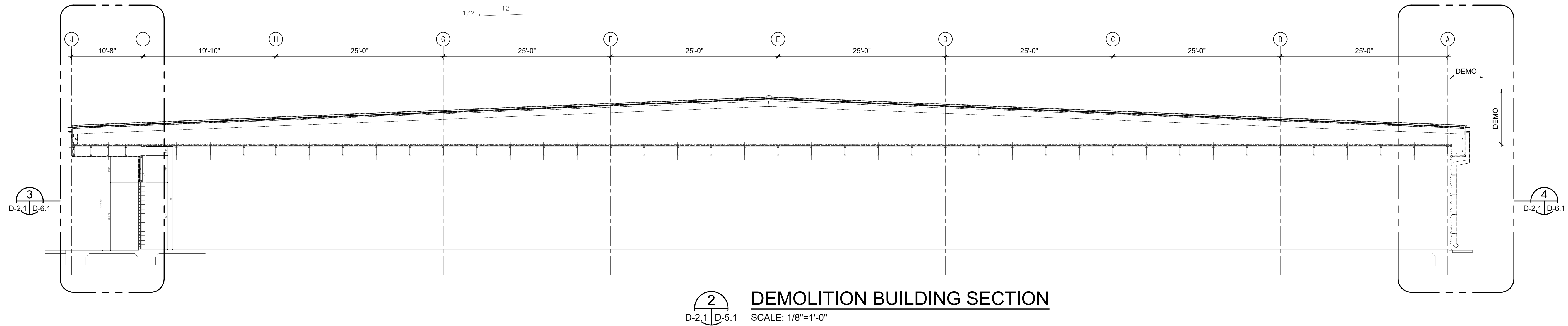
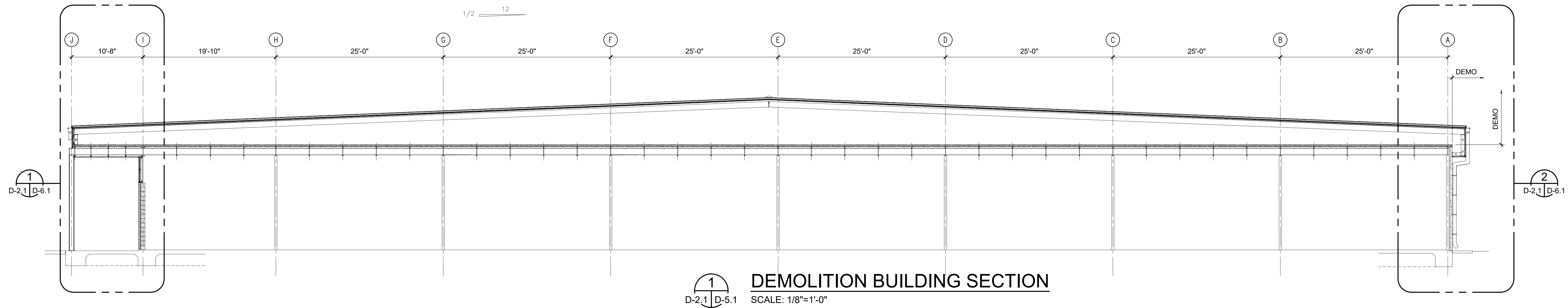
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**DEMOLITION
 EXTERIOR
 ELEVATIONS &
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D-4.2

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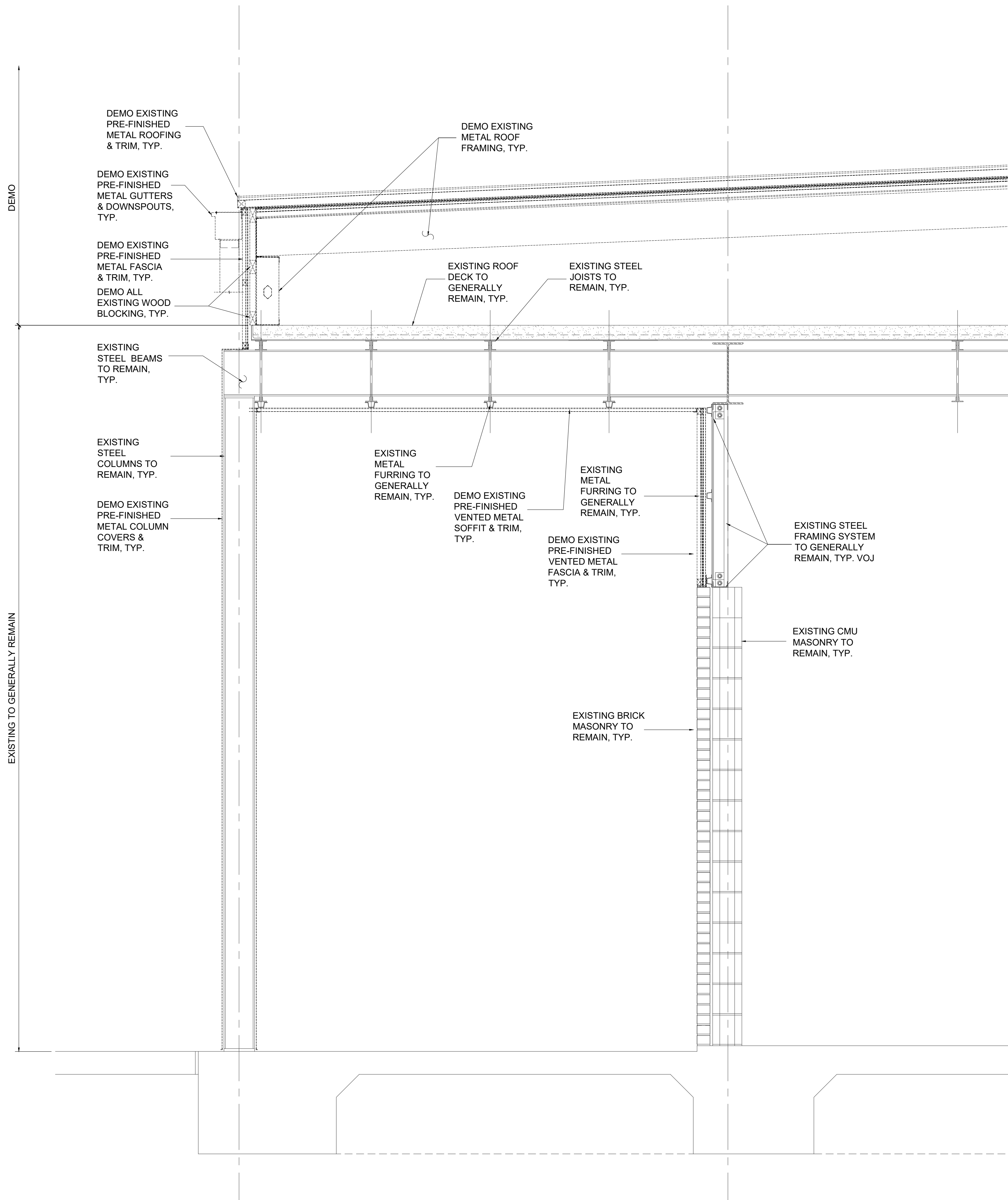
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BUILDING
SECTIONS**

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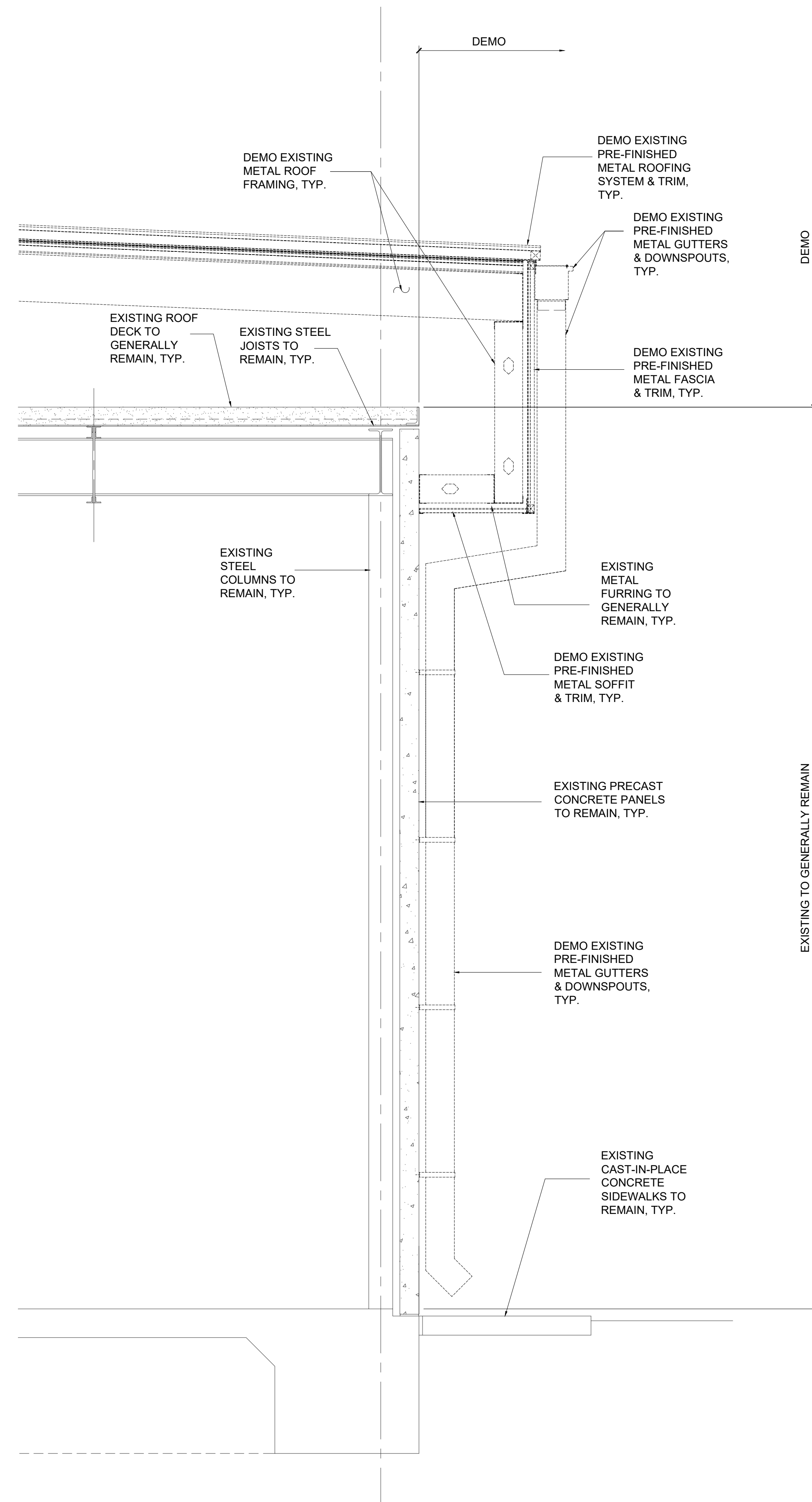
D-5.1



1
D-2.1 | D-6.1

DEMOLITION WALL SECTION

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



2
D-2.1 | D-6.1

DEMOLITION WALL SECTION

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



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PROGRAM & PROJECT MANAGERS
7750 LAKE VELA DRIVE
METairie, LOUISIANA 70002
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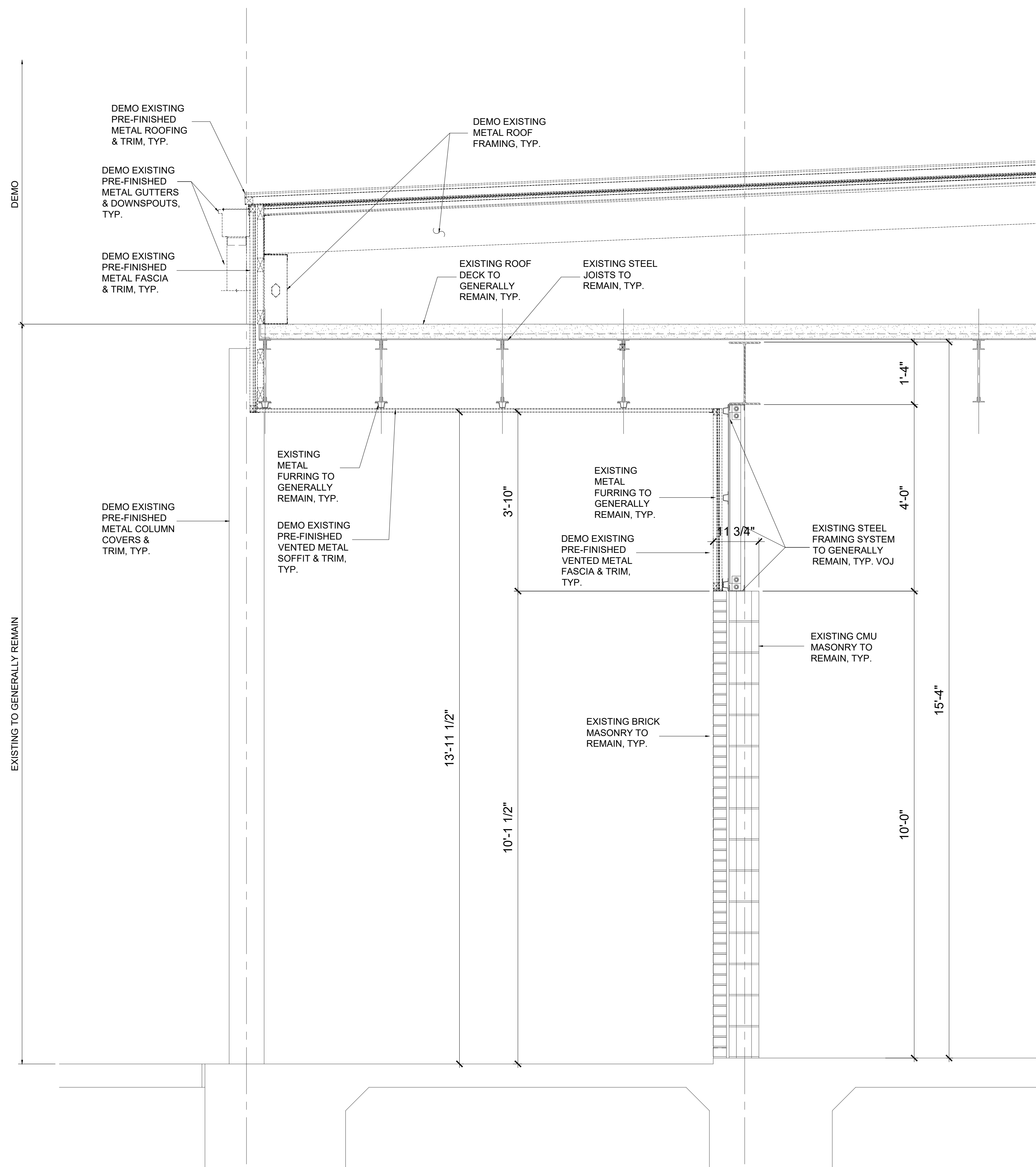
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DEMOLITION WALL SECTIONS

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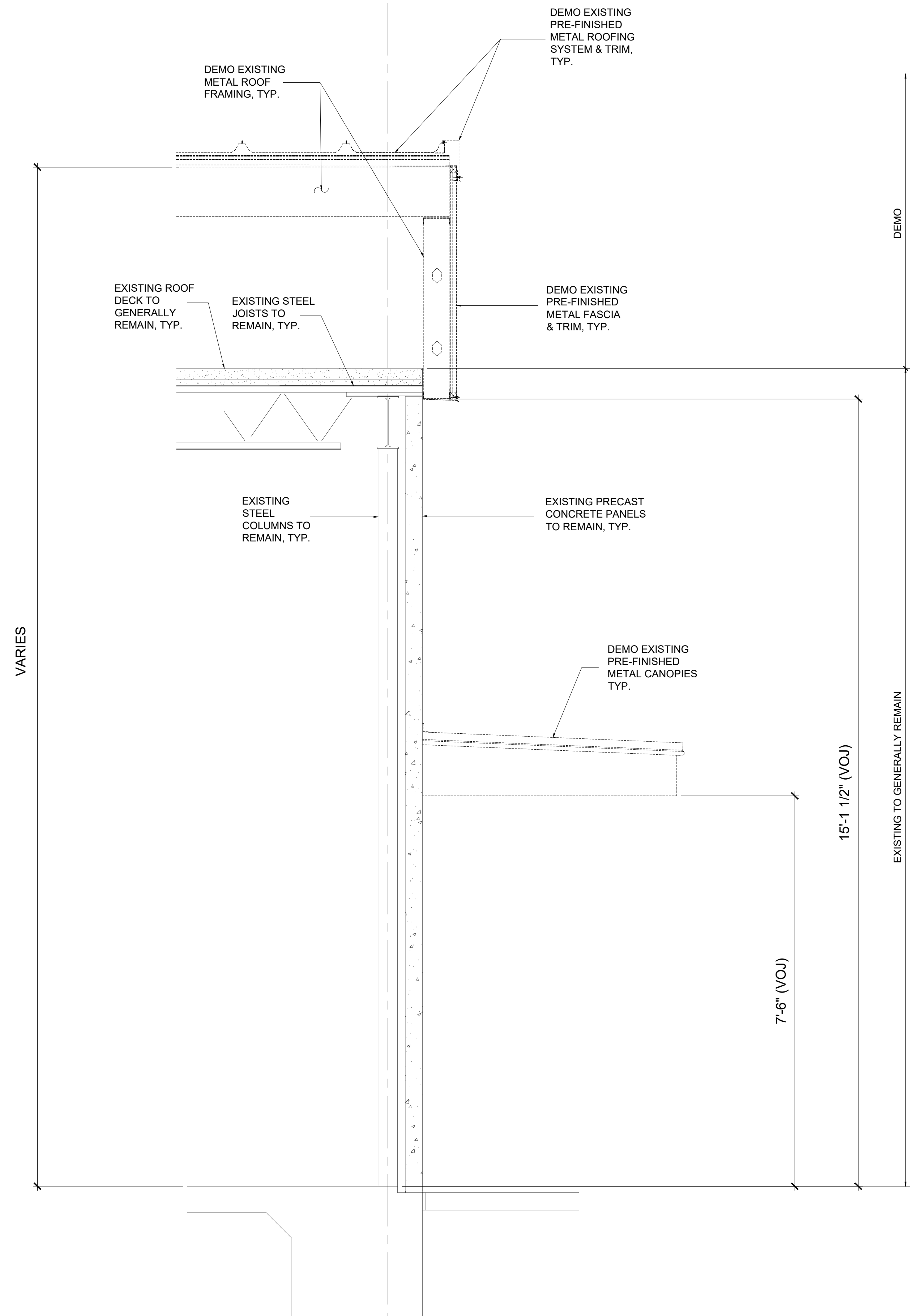
D-6.1



1
D-2.1 D-6.2

DEMOLITION WALL SECTION

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



2
D-2.1 D-6.2

DEMOLITION WALL SECTION

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



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PROGRAM & PROJECT MANAGERS
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METairie, LOUISIANA 70002
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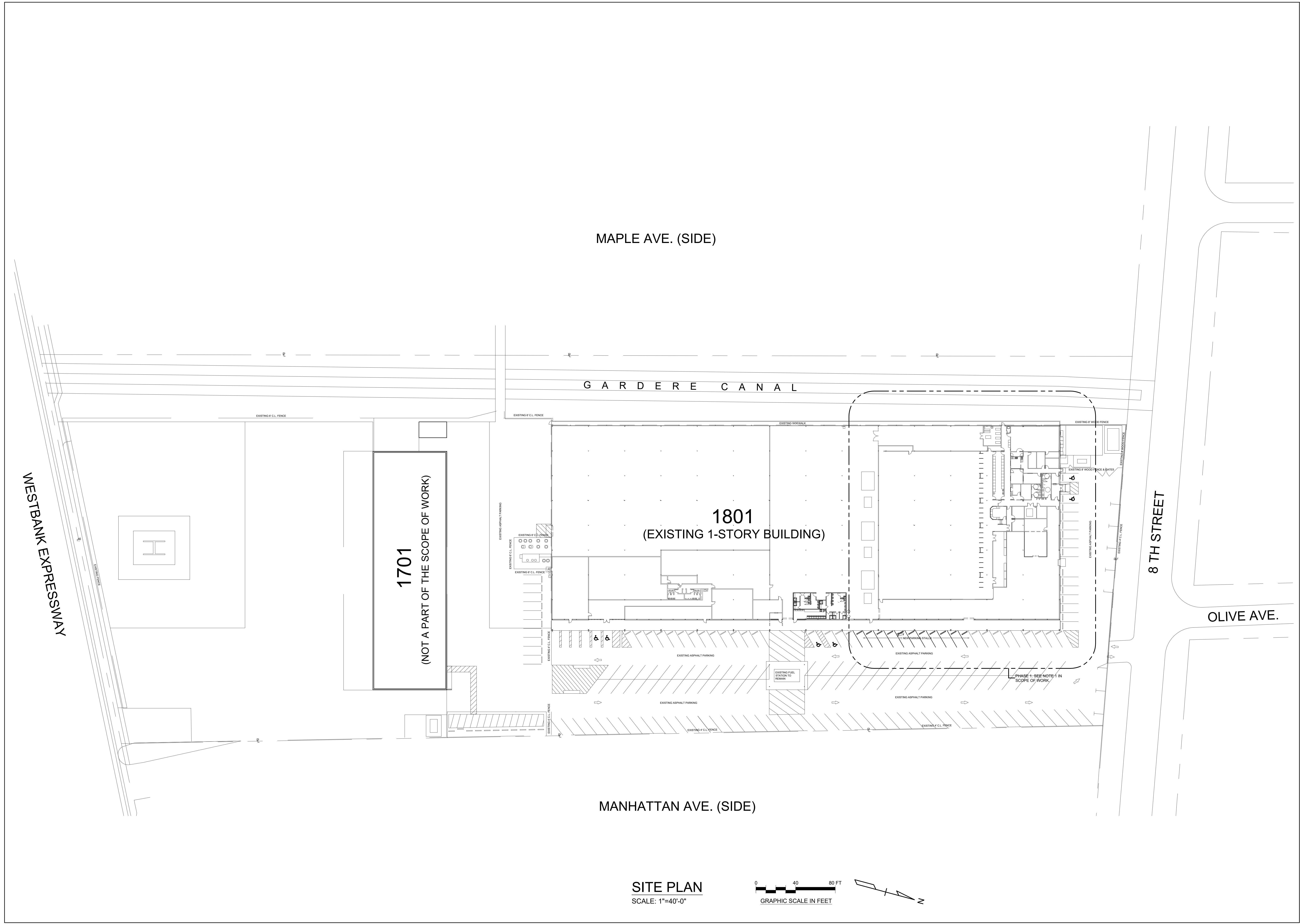
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**DEMOLITION
WALL
SECTIONS**

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D-6.2



MAPLE AVE. (SIDE)

G A R D E R E C A N A L

1801
(EXISTING 1-STORY BUILDING)

1701
(NOT A PART OF THE SCOPE OF WORK)

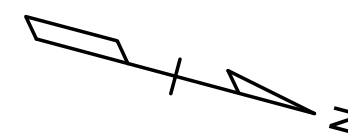
8 TH STREET

OLIVE AVE.

MANHATTAN AVE. (SIDE)

SITE PLAN
SCALE: 1"=40'-0"

0 40 80 FT
GRAPHIC SCALE IN FEET



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ENGINEERS • ARCHITECTS • PLANNERS
PROGRAM & PROJECT MANAGERS
1750 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
PHONE: 504.885.0500
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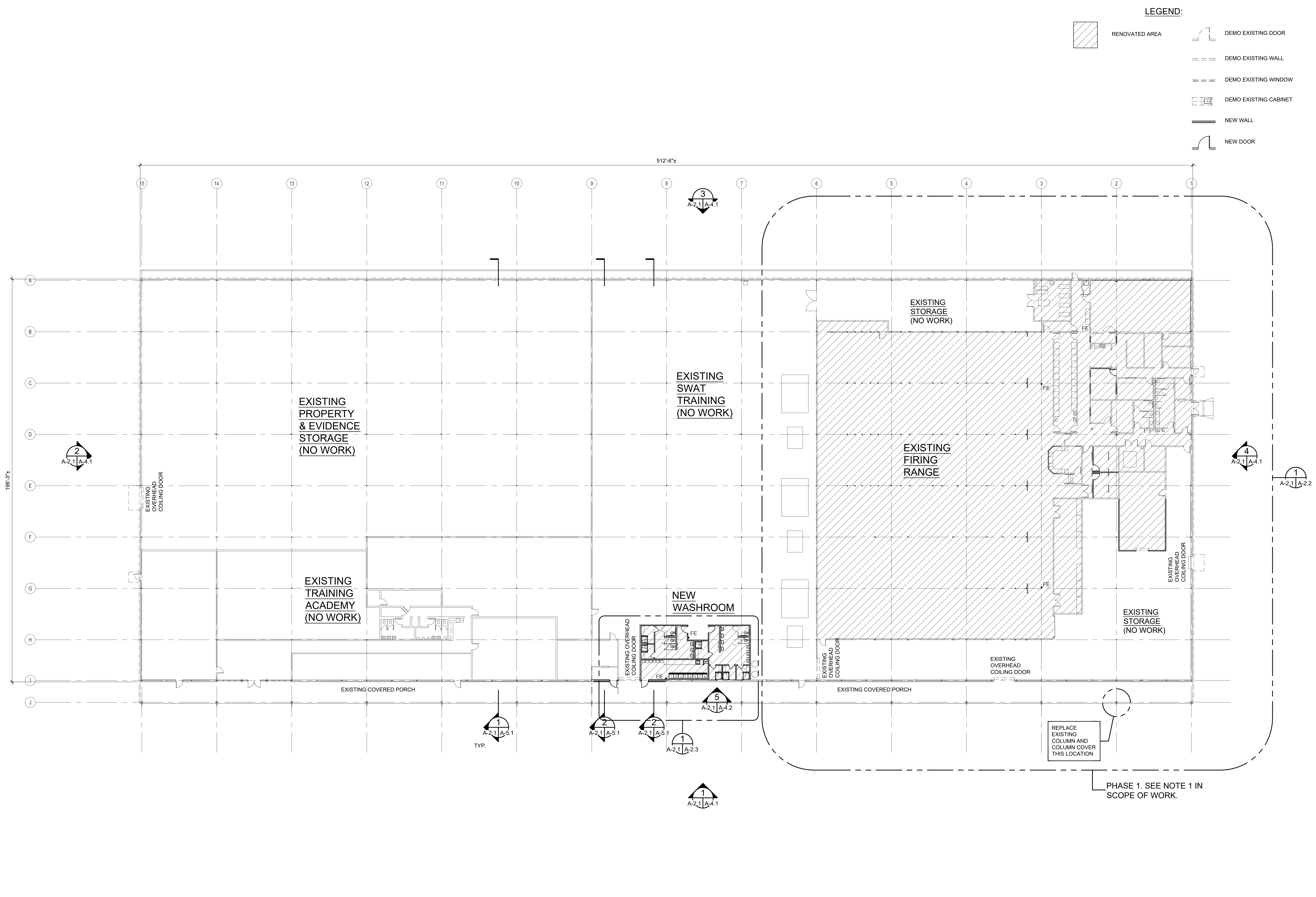
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SITE
PLAN**

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A-1.1



LEGEND:

- RENOVATED AREA
- DEMO EXISTING DOOR
- DEMO EXISTING WALL
- DEMO EXISTING WINDOW
- DEMO EXISTING CABINET
- NEW WALL
- NEW DOOR

NEW FLOOR PLAN
SCALE: 1"=20'-0"

0 20 40 FT
GRAPHIC SCALE IN FEET

N

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PROGRAM & PROJECT MANAGERS
7750 LAKE VELA DRIVE
METairie, LOUISIANA 70002
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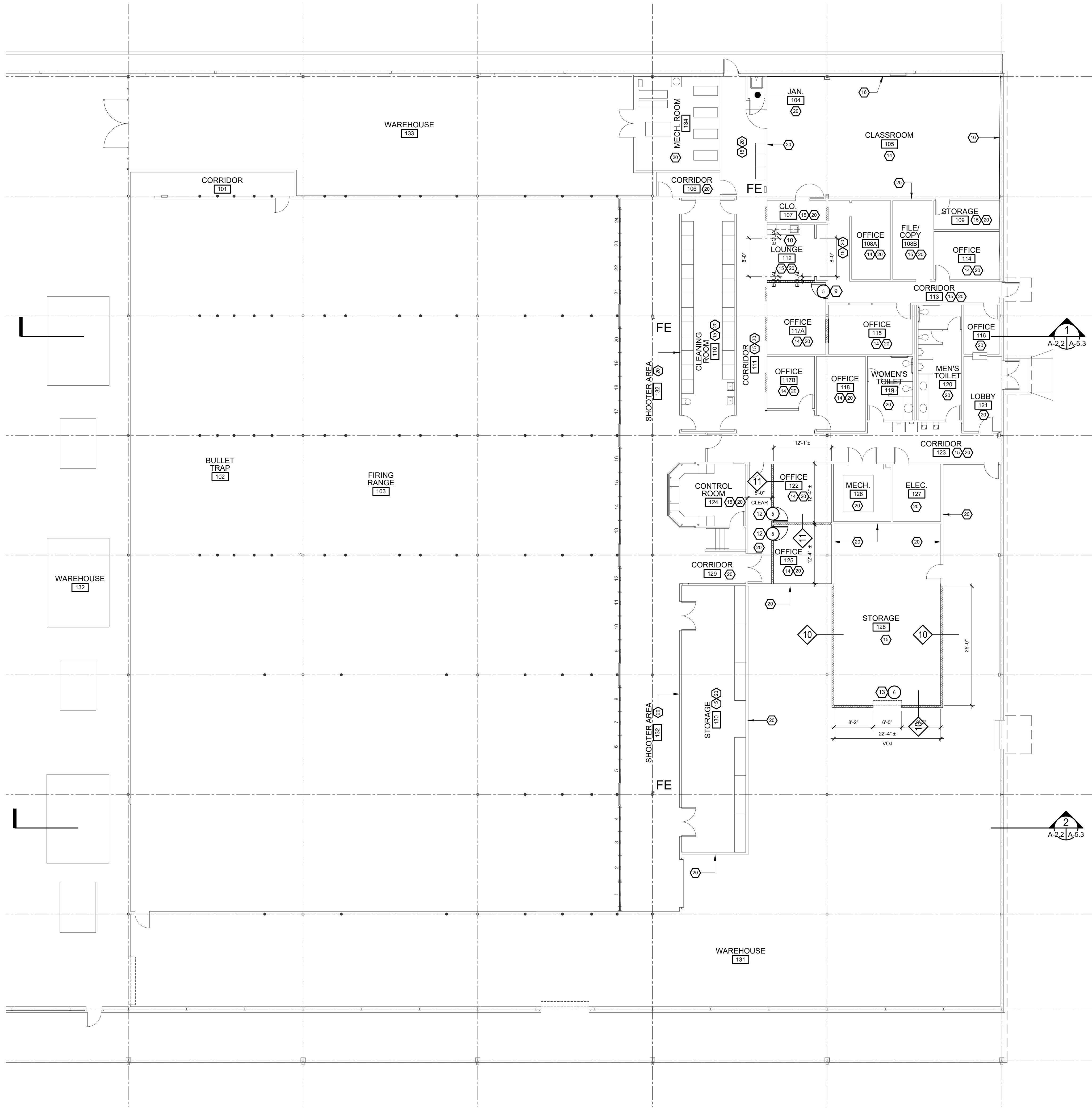
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A-2.1
Sheet 17 of 42



LEGEND:

- DEMO EXISTING DOOR
- DEMO EXISTING WALL
- DEMO EXISTING WINDOW
- DEMO EXISTING CABINET
- NEW WALL
- NEW DOOR

SCOPE OF WORK

- RECONFIGURE EXISTING WALLS AS REQUIRED IN RENOVATED ROOMS.
- REPLACE ALL GYP. BD. TO 2'-0" ABOVE FINISHED FLOOR ALL ROOMS AND SPACES. RE-FINISH ENTIRE WALL.
- REPLACE ALL SUSPENDED ACOUSTICAL CEILING TILE TO MATCH EXISTING. SEE REFLECTED CEILING PLANS.
- RELOCATE ONE EXISTING SALVAGED FIRE EXTINGUISHER AND CABINET WHERE DIRECTED BY ARCHITECT.

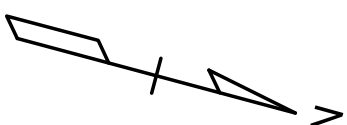
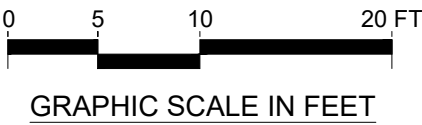
KEYNOTES

- DEMO WINDOW AND WALL. PROVIDE NEW 8' WIDE CASED OPENING.
- DEMO EXISTING DOOR AND FRAME. PROVIDE NEW 4' WIDE CASED OPENING.
- DEMO EXISTING FURR-DOWN. PROVIDE NEW CEILING TO MATCH EXISTING.
- DEMO EXISTING DOOR AND DOOR FRAME. INFILL WALL TO MATCH EXISTING.
- DEMO EXISTING WALL, EXISTING DOOR AND EXISTING DOOR FRAME.
- DEMO EXISTING WINDOW. INFILL WALL TO MATCH EXISTING.
- DEMO EXISTING CEILING AND WOOD CEILING JOISTS. PROVIDE NEW SUSPENDED CEILING.
- PROVIDE NEW RECEPTION WINDOW IN EXISTING WALL.
- NEW DOOR AND DOOR FRAME IN EXISTING WALL.
- DEMO EXISTING WALL CABINETS AND BASE CABINETS. PROVIDE NEW WALL CABINETS AND BASE CABINETS.
- NEW WALLS TO DECK ABOVE THIS ROOM.
- NEW WALL AND DOOR.
- NEW OVERHEAD COILING DOOR.
- NEW CARPET.
- NEW VCT.
- NEW GYP. BD. ENTIRE WALL, FLOOR TO CEILING THIS WALL. PROVIDE NEW FIBERGLASS R-13 BATT INSULATION.
- NEW 24"x48" ACOUSTICAL TILE CEILING TILES (EXISTING SUSPENDED GRID TO REMAIN. PAINT FLAT BLACK.)
- SCREW NEW 24"x48" ACOUSTICAL TILE CEILING TILES ON EXISTING PLYWOOD TO REMAIN. PAINT FLAT BLACK.)
- SANDBLAST ALL STEEL BAFFLES, STRUCTURAL POSTS, AND OTHER OTHER EXPOSED STEEL DOWN TO BARE METAL. TREAT WITH CHEMICAL RUST REMOVER. PRIME AND FINISH PAINT FLAT BLACK.
- REPLACE ALL GYP. BD. TO 2'-0" ABOVE FINISHED FLOOR ALL ROOMS AND SPACES. RE-FINISH ENTIRE WALL.
- DEMO EXISTING ALUMINUM STOREFRONT SYSTEM. REPLACE ALUMINUM STOREFRONT SYSTEM WITH FACE-BRICK AND CMU TO MATCH EXISTING CONSTRUCTION TO REMAIN. PROVIDE NEW EXTERIOR HOLLOW METAL DOOR AND DOOR FRAME.
- GRIND AND POLISH EXISTING FINISHES DOWN TO EXISTING CONCRETE FLOOR. PREP FOR NEW FINISH AS SCHEDULED.

1
A-2.1 | A-2.2

ENLARGED FLOOR PLAN - FIRING RANGE

SCALE: 3/32"=1'-0"



N-Y ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
7750 LAKE VELA DRIVE
METairie, LOUISIANA 70002
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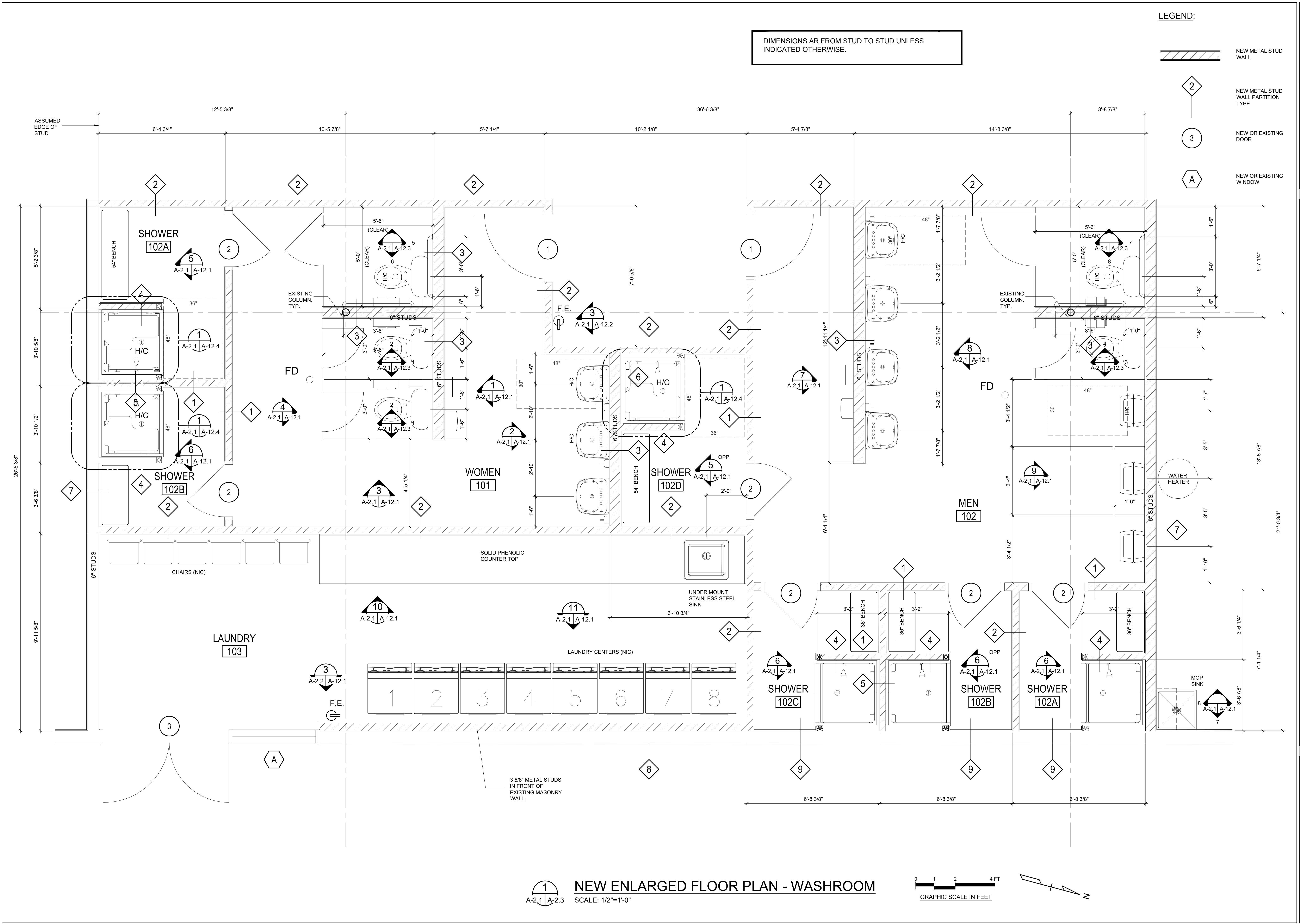
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ENLARGED
FLOOR PLAN -
FIRING RANGE

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CHECKED BY: MB
DESIGNED BY: MS

A-2.2



DIMENSIONS AR FROM STUD TO STUD UNLESS INDICATED OTHERWISE.

- LEGEND:
- NEW METAL STUD WALL
 - NEW METAL STUD WALL PARTITION TYPE
 - NEW OR EXISTING DOOR
 - NEW OR EXISTING WINDOW



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ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
2705 LAKE VILLA DRIVE
METAIRIE, LOUISIANA 70002
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1801 Westbank Expressway, Harvey, LA 70058

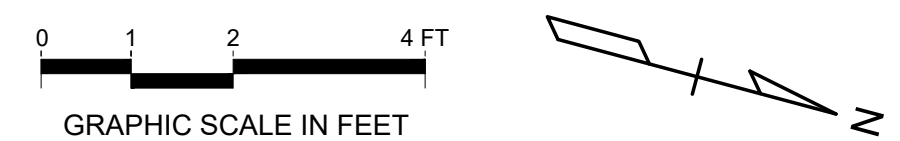
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N-Y Proj No: 21023.01
Date: June 9, 2023
Revised:

ENLARGED FLOOR PLAN - WASHROOM

DRAWN BY: MS
CHECKED BY: MB
DESIGNED BY: MS

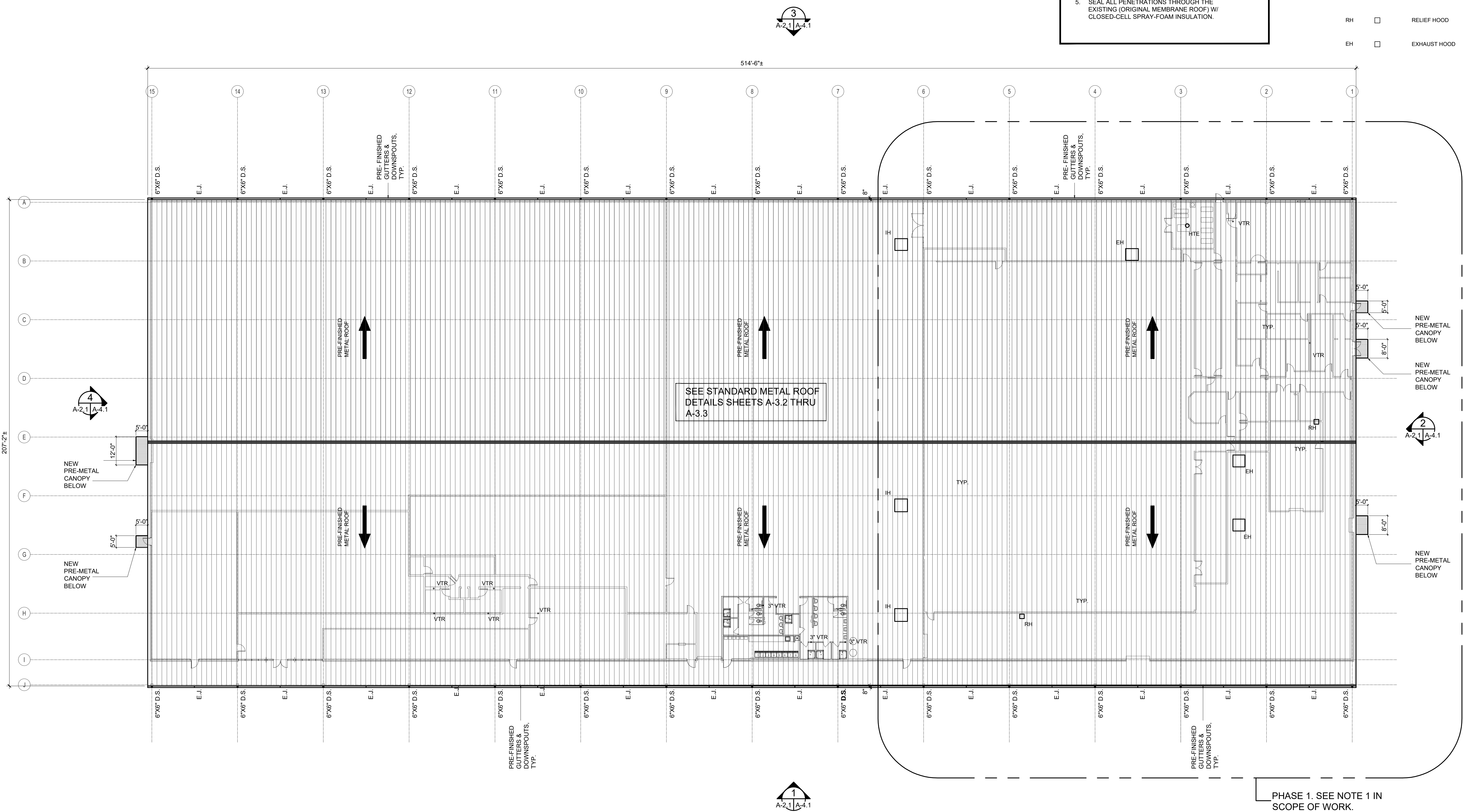
NEW ENLARGED FLOOR PLAN - WASHROOM
SCALE: 1/2"=1'-0"



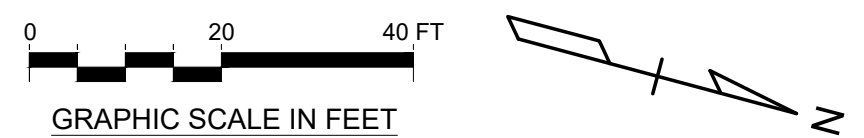
- NOTES:
1. GUTTER DEPTH TO WIDTH RATIO 0.75 MINIMUM.
 2. PROVIDE "PROFILE" STYLE GUTTERS AND GABLE TRIM.
 3. COMPLY WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL DESIGN GUIDELINES.
 4. COORDINATE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS AND ROOF CURB REQUIREMENTS THROUGH THE NEW AND EXISTING ROOFS.
 5. SEAL ALL PENETRATIONS THROUGH THE EXISTING (ORIGINAL MEMBRANE ROOF) W/ CLOSED-CELL SPRAY-FOAM INSULATION.

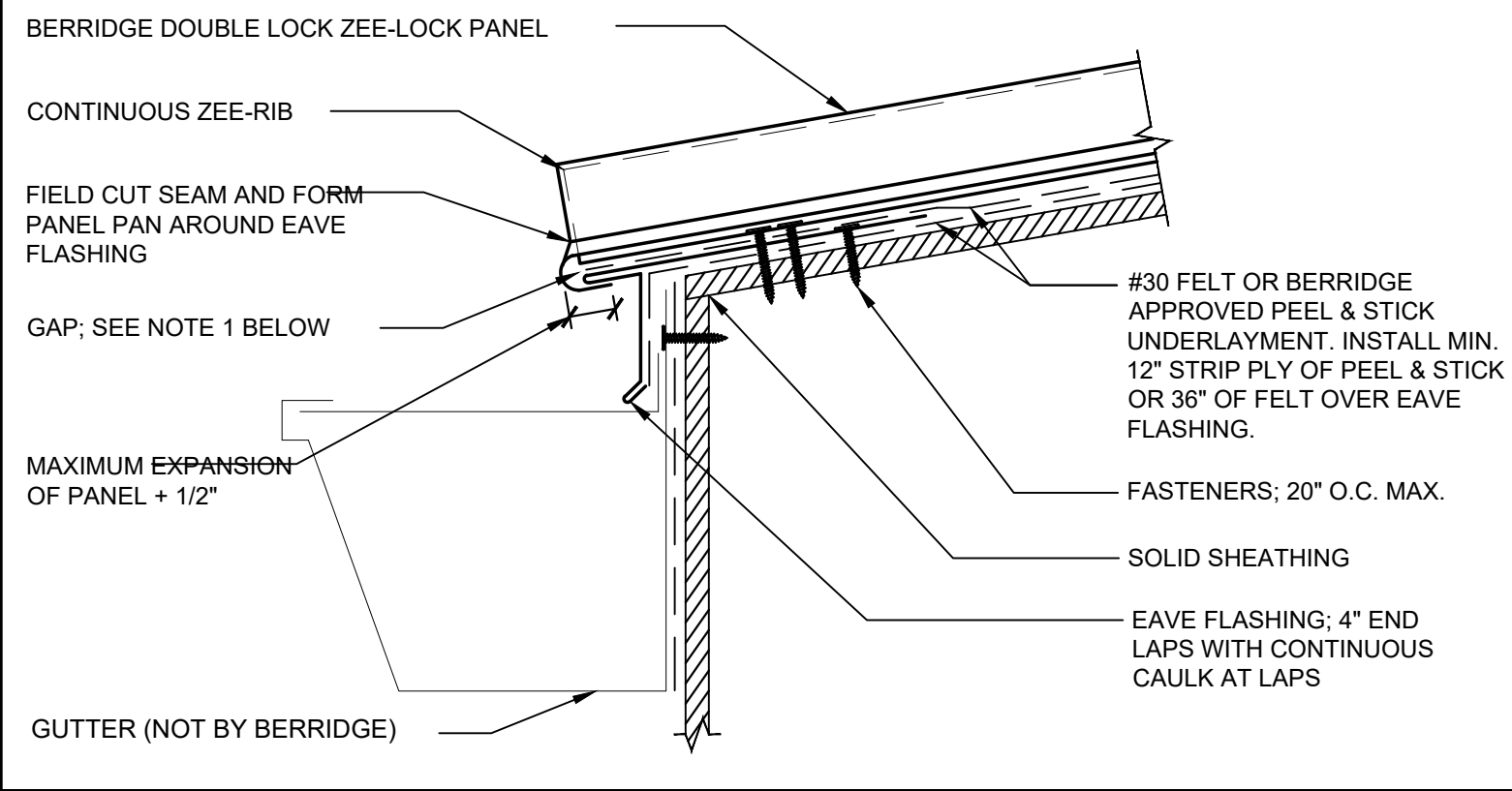
ROOF LEGEND:

D.S.		DOWNSPOUT
E.J.		EXPANSION JOINT
VTR		VENT-THRU-ROOF
HTE		HIGH TEMPERATURE EXHAUST STACK
IH		INTAKE HOOD
RH		RELIEF HOOD
EH		EXHAUST HOOD



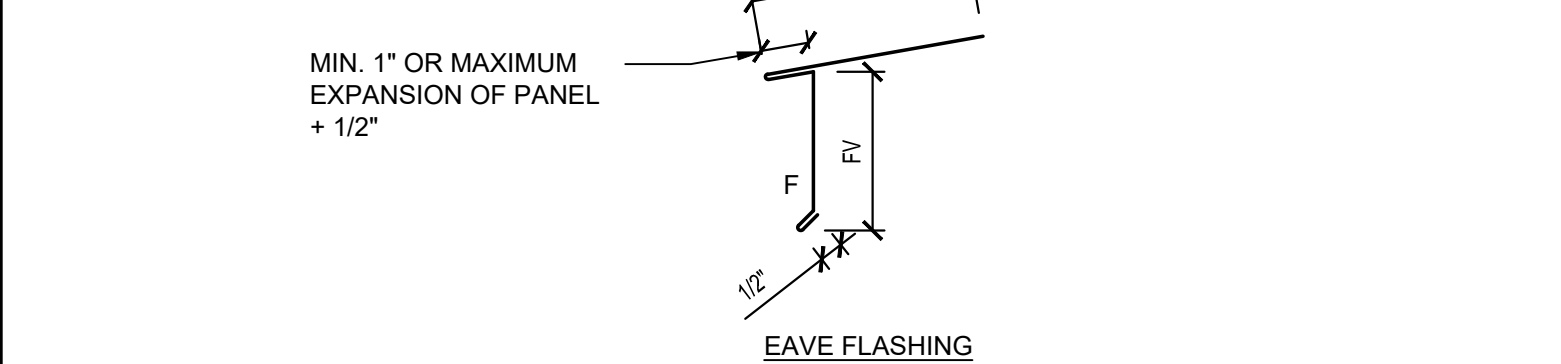
NEW ROOF PLAN
SCALE: 1"=20'-0"





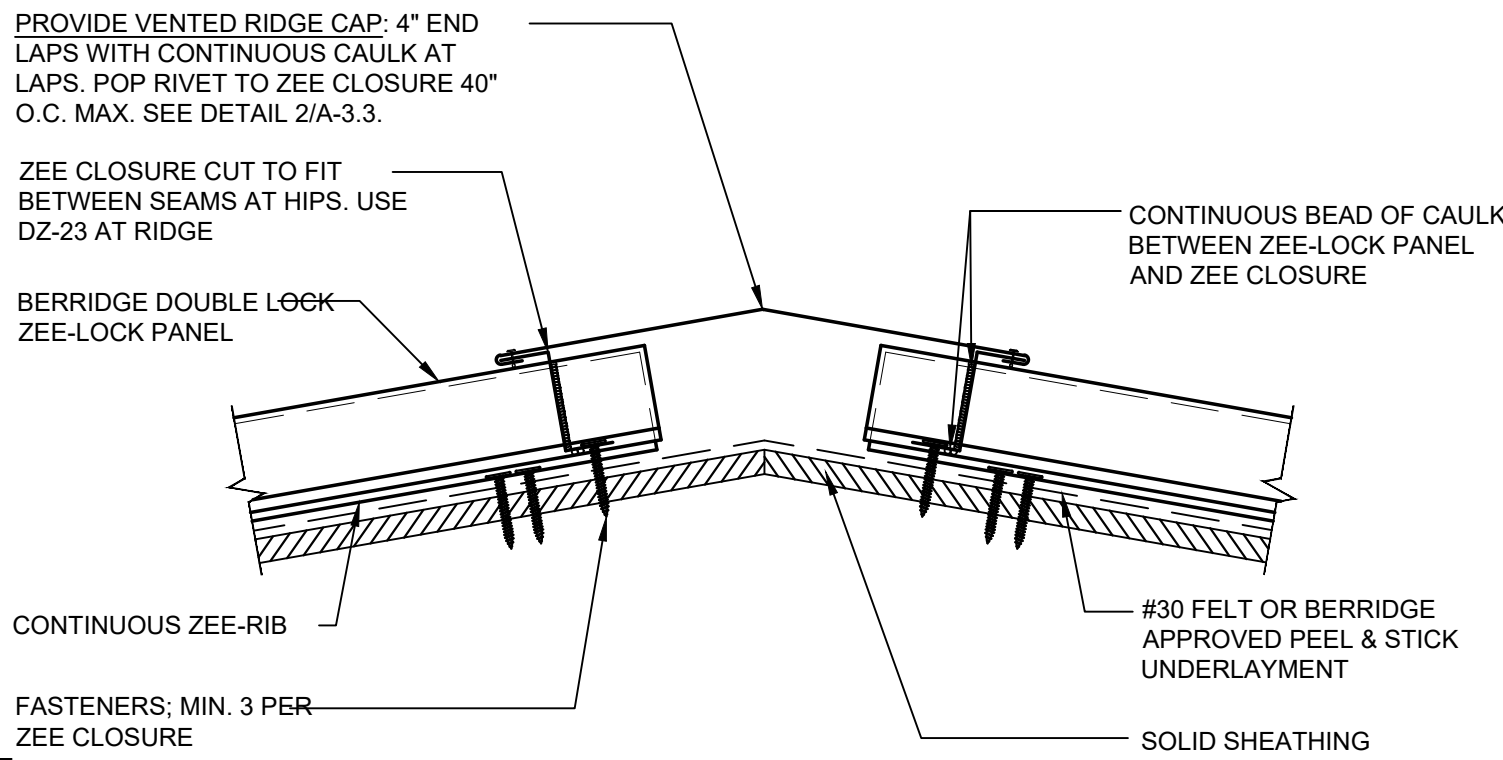
1. THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH REFER TO NOMINAL LINEAR EXPANSION CHART
2. GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.
3. SOLID SHEATHING (NOT BY BERRIDGE) TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.
4. WHEN THIS DETAIL IS USED DIRECTLY OVER RIGID INSULATION, WOOD BLOCKING OR A MINIMUM 16 GA. SUPPORT IS REQUIRED FOR THE STRUCTURAL ATTACHMENT OF FASTENERS.
5. REFERENCE BERRIDGE'S WEB SITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE INSTALLATION INSTRUCTIONS & LOAD CHARTS FOR MIN. FASTENER REQUIREMENTS)

NOTE: ALL FLASHING GAUGES TO BE EQUAL TO THE ASSOCIATED PANEL GAUGE UNLESS NOTED OTHERWISE



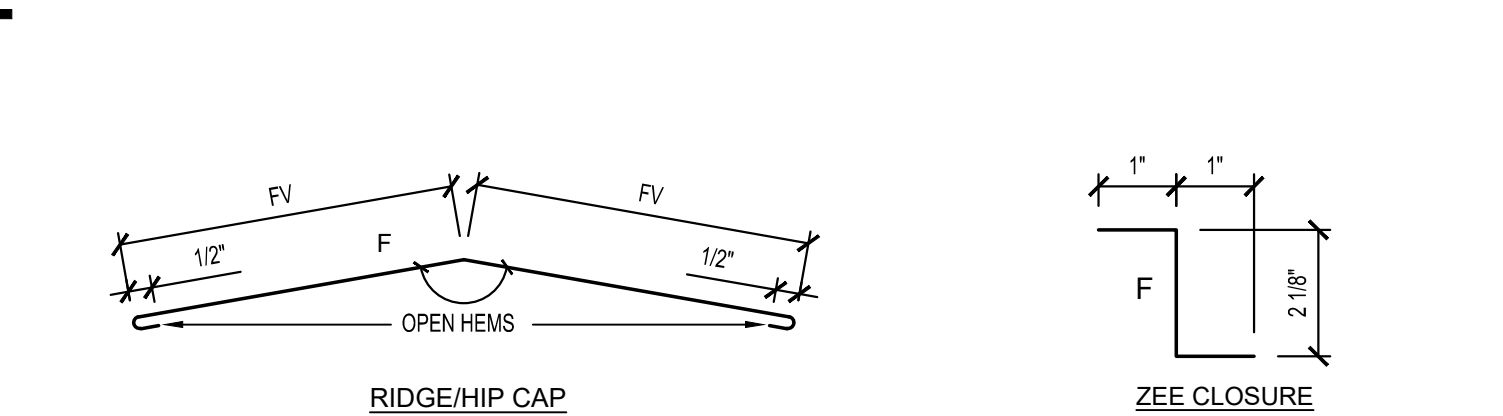
EAVE WITH GUTTER DETAIL
SOLID SHEATHING

DOUBLE LOCK ZEE-LOCK PANEL DZ-11G



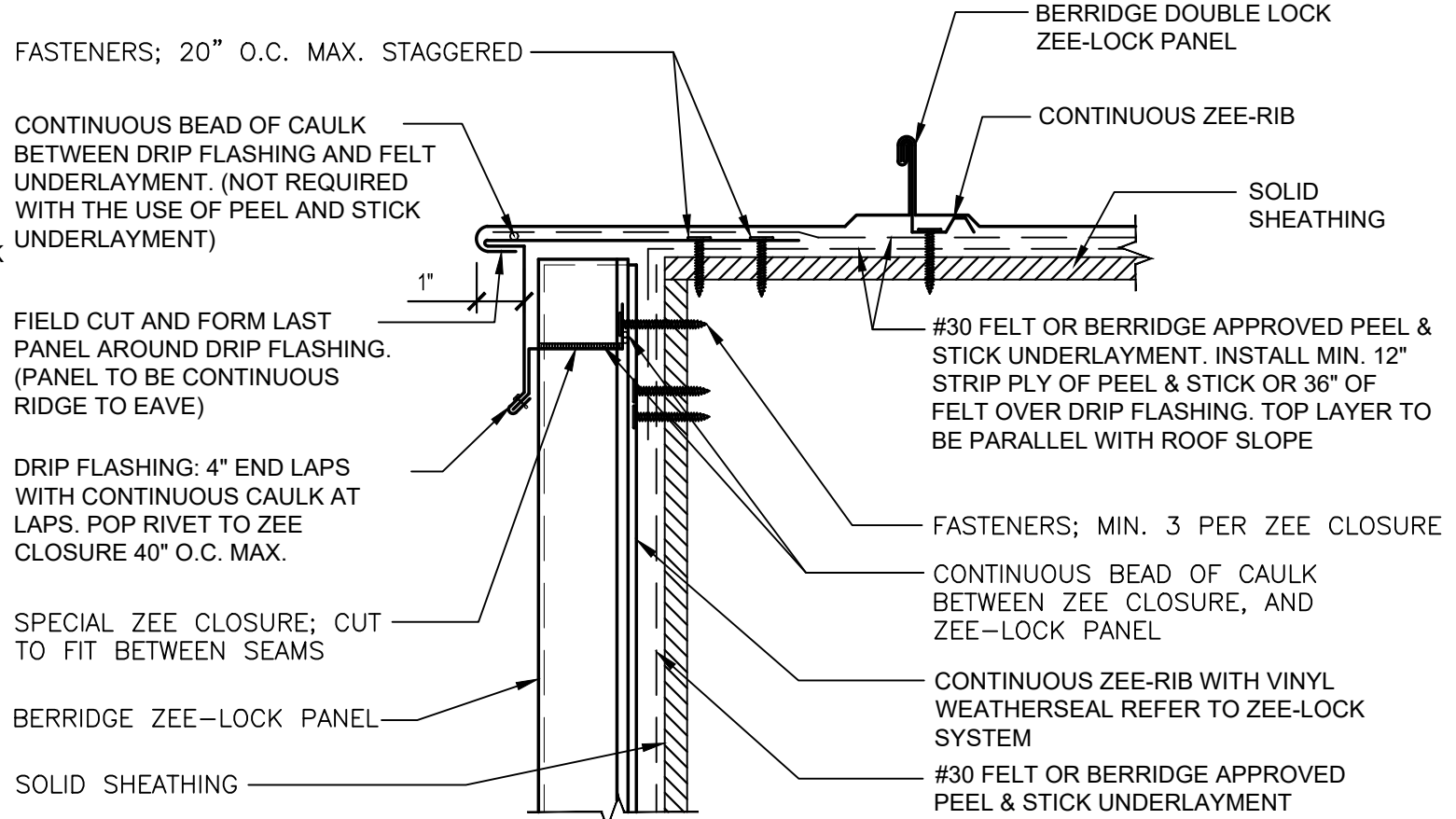
1. SOLID SHEATHING (NOT BY BERRIDGE) TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.
2. WHEN THIS DETAIL IS USED DIRECTLY OVER RIGID INSULATION, SUB-FLASHING WITH FASTENERS AT 20" O.C. MAX. IS REQUIRED.
3. REFERENCE BERRIDGE'S WEB SITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE INSTALLATION INSTRUCTIONS & LOAD CHARTS FOR MIN. FASTENER REQUIREMENTS)

NOTE: ALL FLASHING GAUGES TO BE EQUAL TO THE ASSOCIATED PANEL GAUGE UNLESS NOTED OTHERWISE



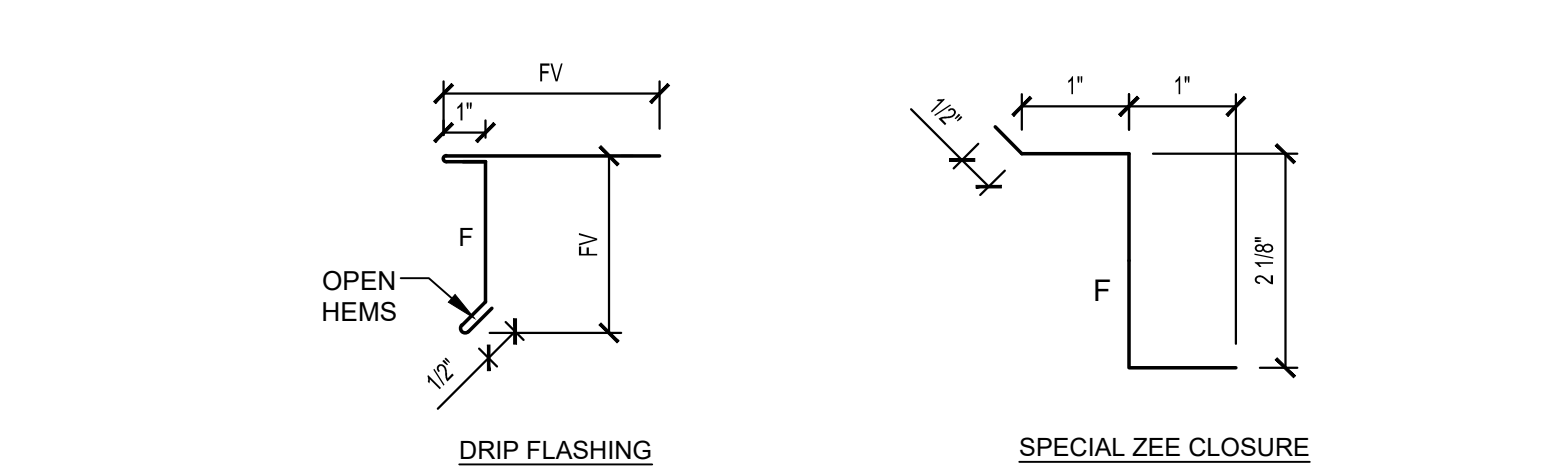
RIDGE/HIP DETAIL
SOLID SHEATHING

DOUBLE LOCK ZEE-LOCK PANEL DZ-21



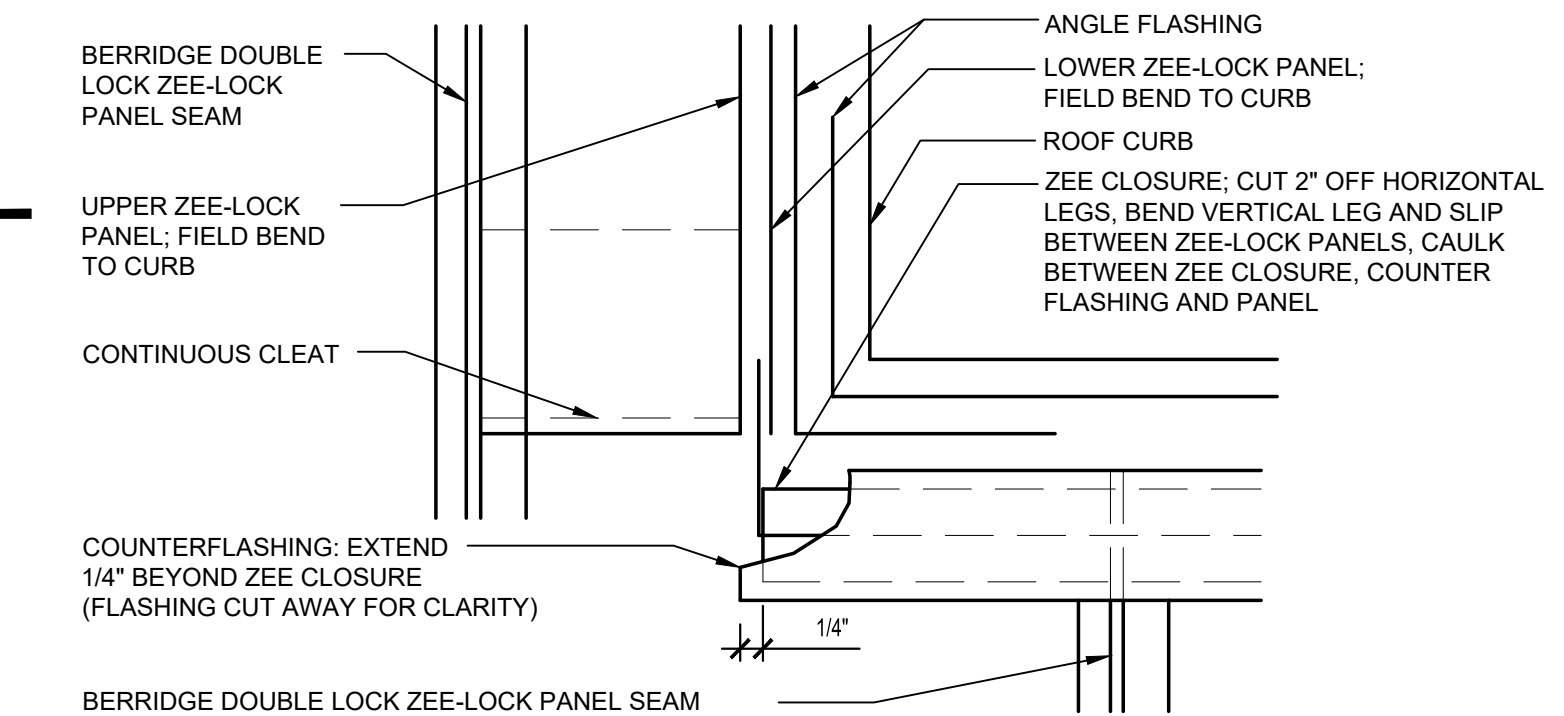
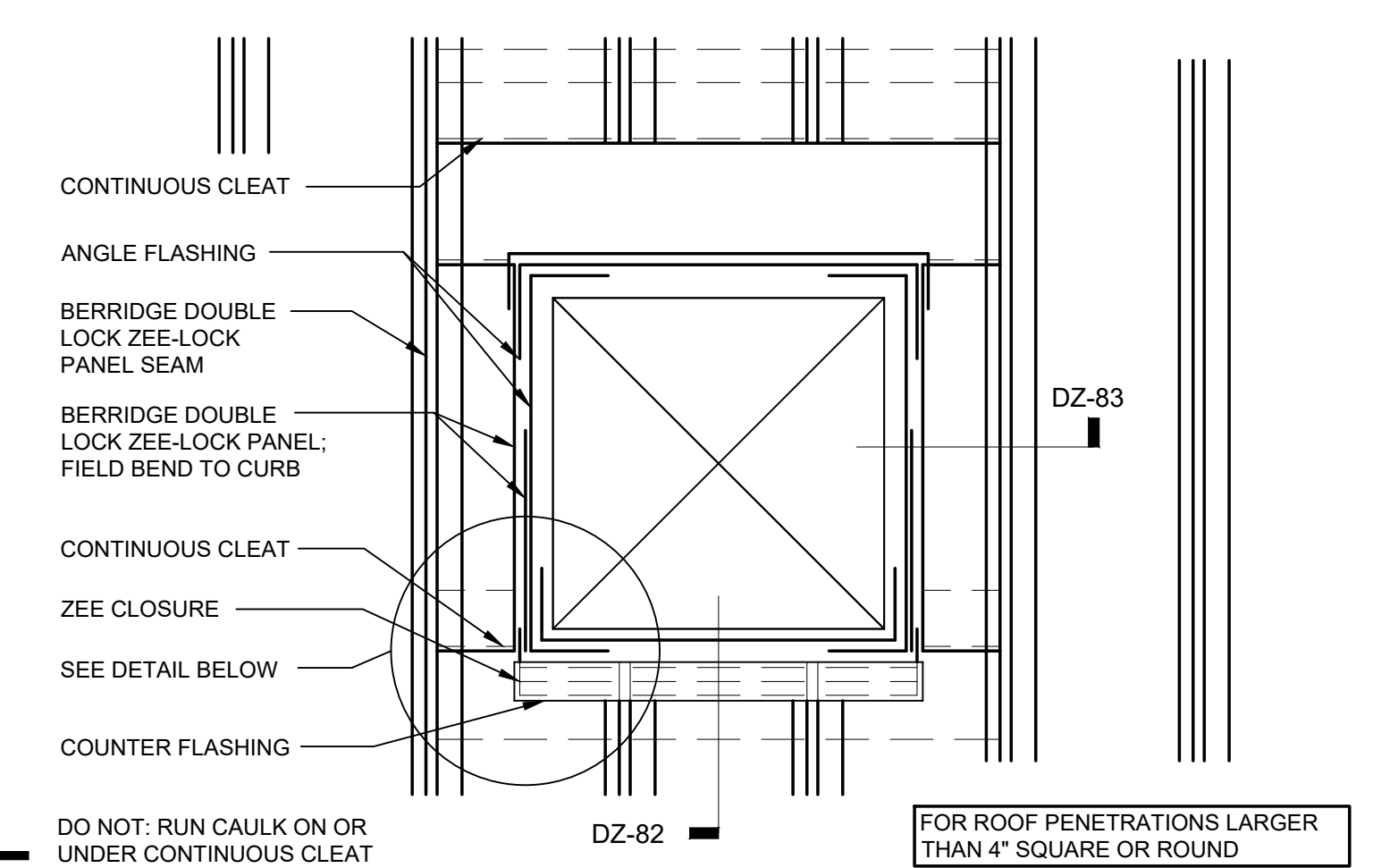
1. SOLID SHEATHING (NOT BY BERRIDGE) TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.
2. WHEN THIS DETAIL IS USED DIRECTLY OVER RIGID INSULATION, WOOD BLOCKING OR A MINIMUM 16 GA. SUPPORT IS REQUIRED FOR THE STRUCTURAL ATTACHMENT OF FASTENERS.
3. REFERENCE BERRIDGE'S WEB SITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE INSTALLATION INSTRUCTIONS & LOAD CHARTS FOR MIN. FASTENER REQUIREMENTS)

NOTE: ALL FLASHING GAUGES TO BE EQUAL TO THE ASSOCIATED PANEL GAUGE UNLESS NOTED OTHERWISE

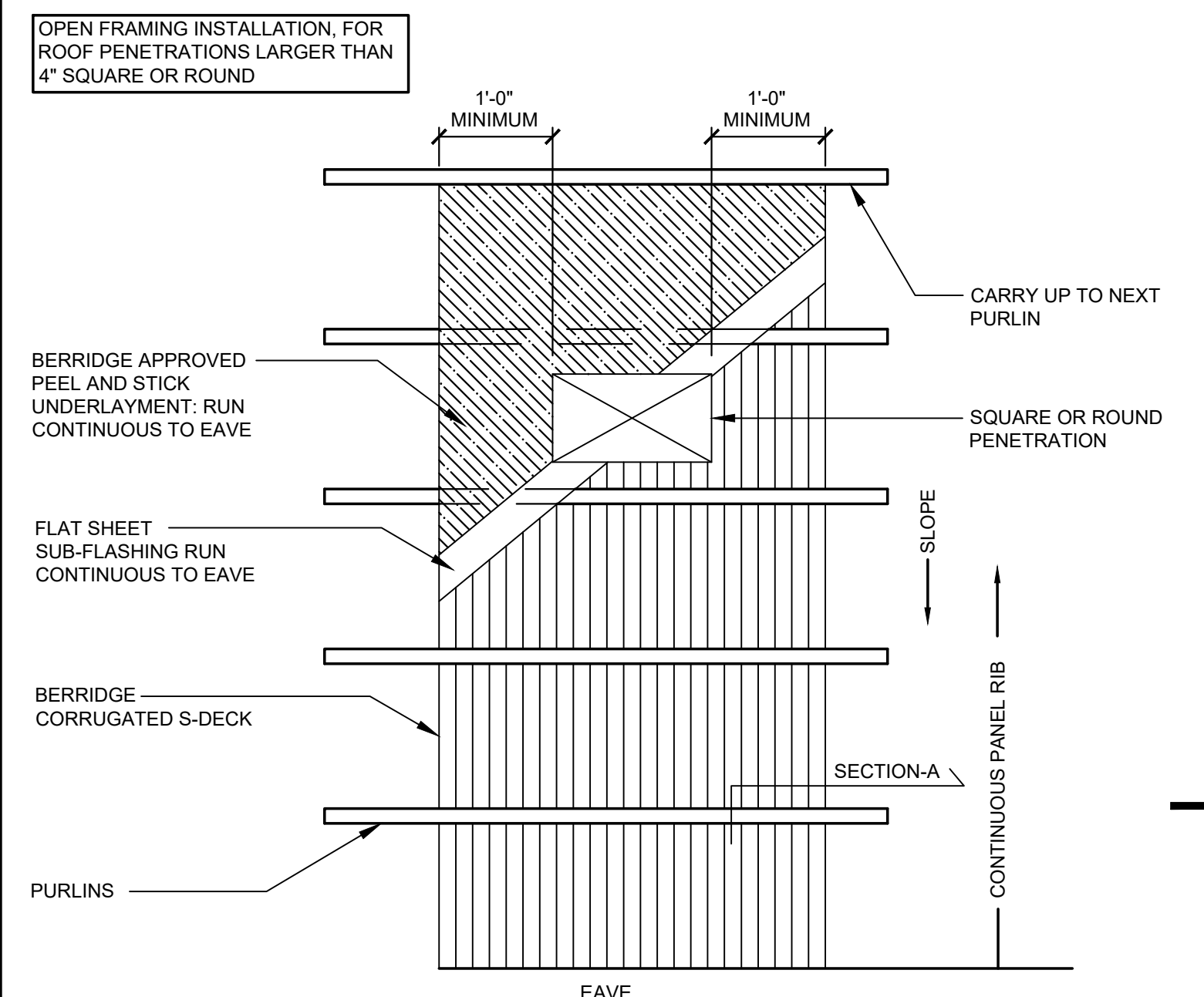


GABLE DETAIL
ZL WALL PANEL
SOLID SUBSTRATE

DOUBLE LOCK ZEE-LOCK PANEL DZ-35

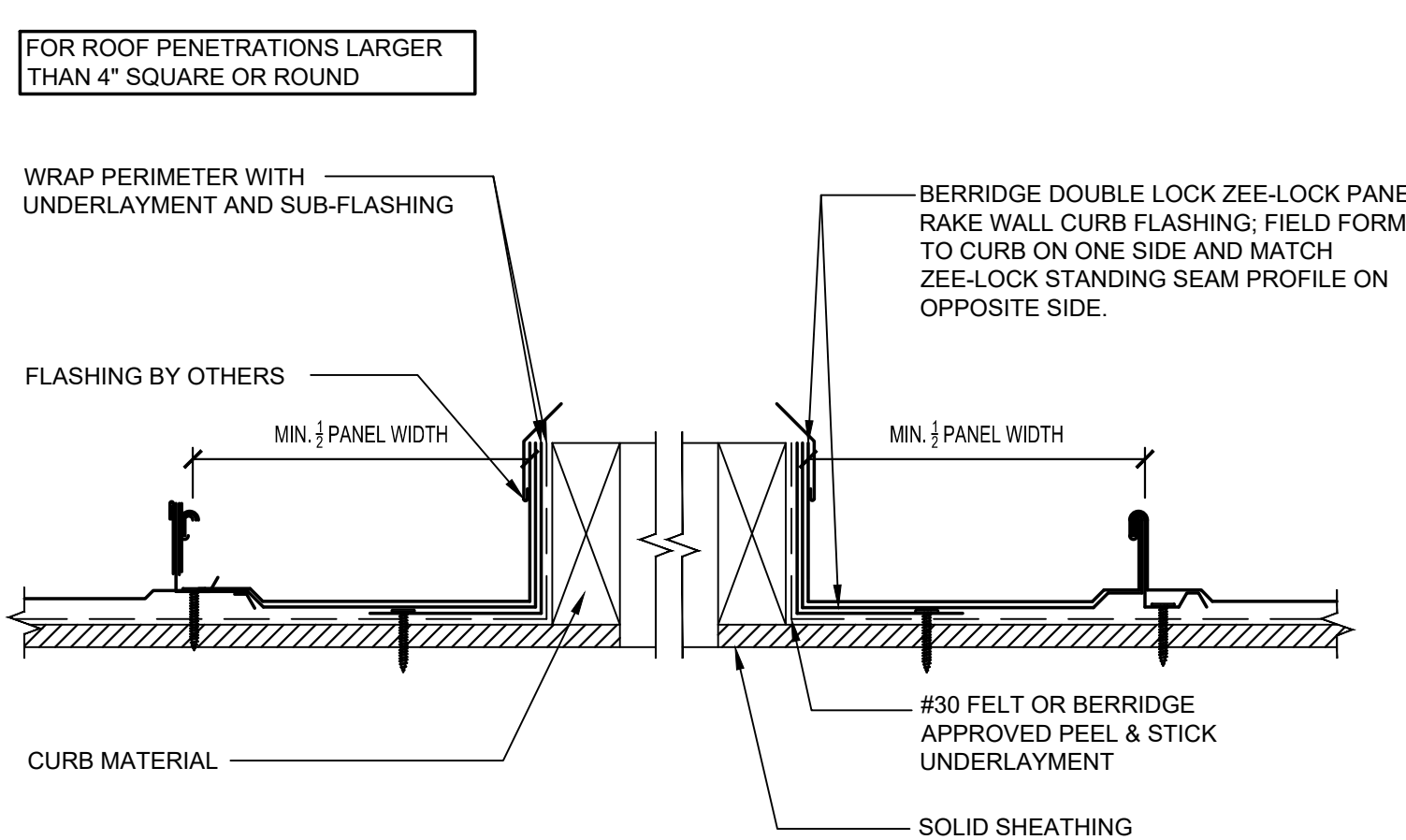


DOUBLE LOCK ZEE-LOCK PANEL DZ-81



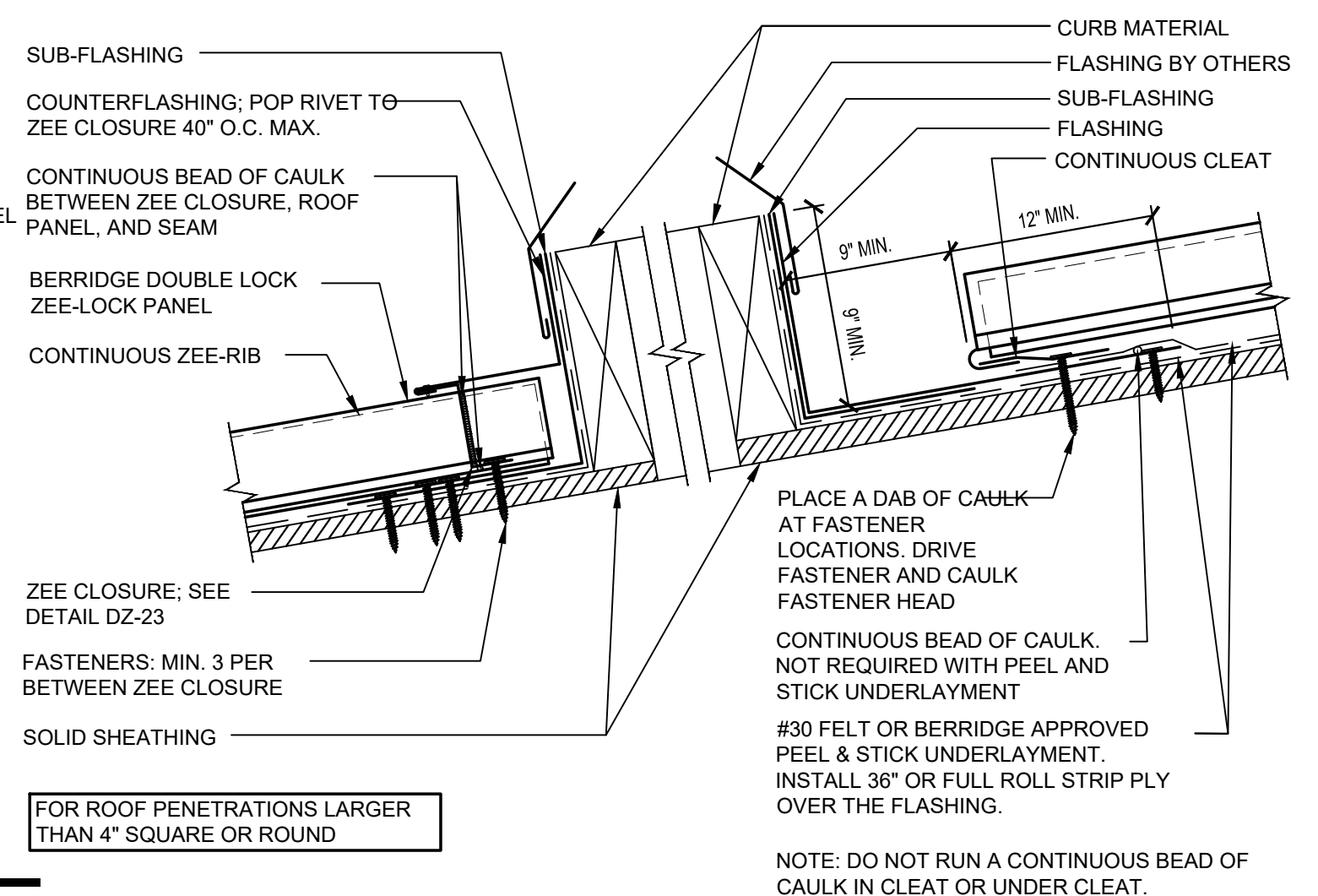
PENETRATION
LARGER THAN 4". 2" ZEE-RIB
OPEN FRAMING

DOUBLE LOCK ZEE-LOCK PANEL DZ-85



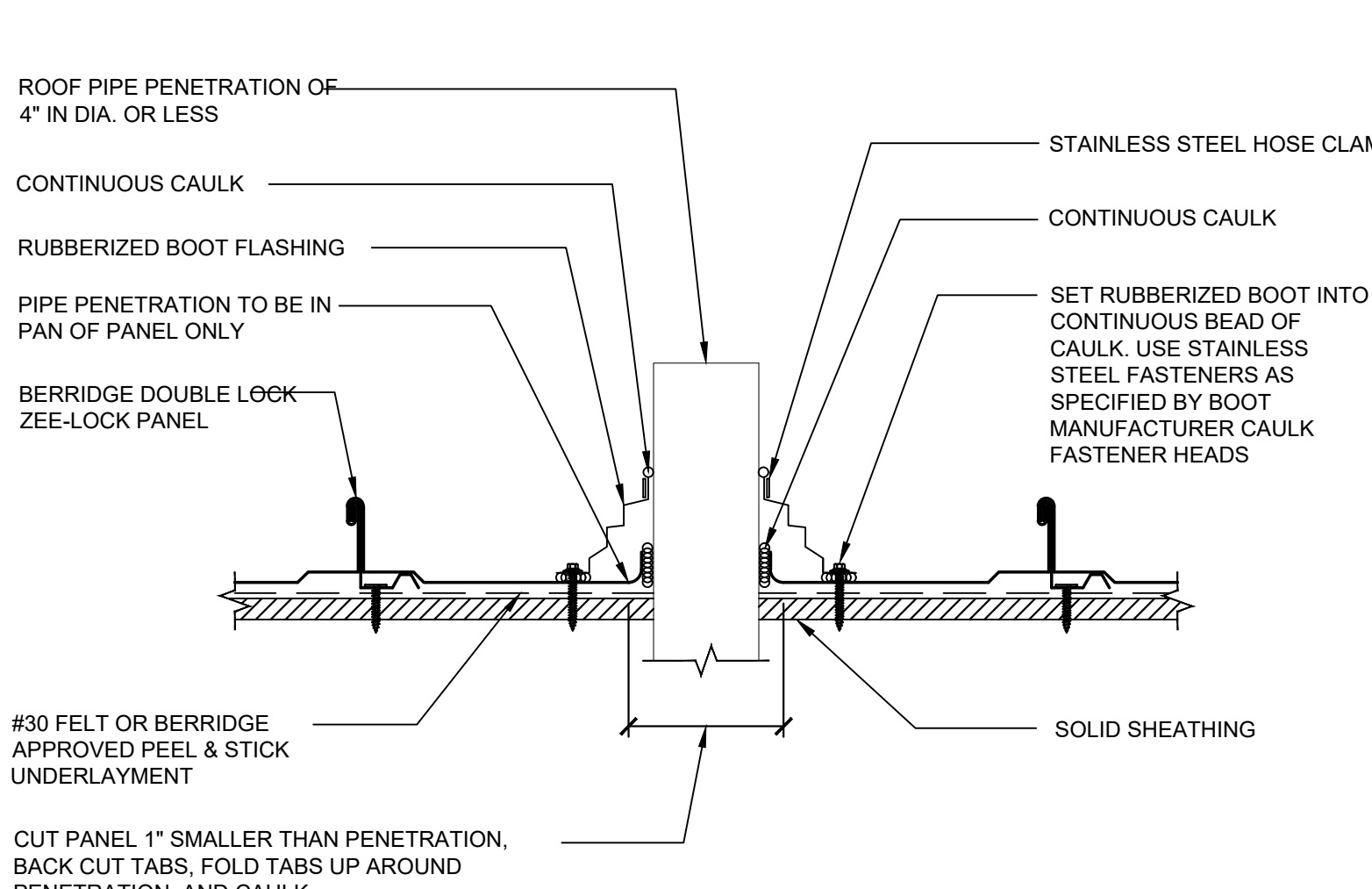
SQUARE PENETRATION
SECTION B
OPEN FRAMING AND SOLID SUBSTRATE

DOUBLE LOCK ZEE-LOCK PANEL DZ-83



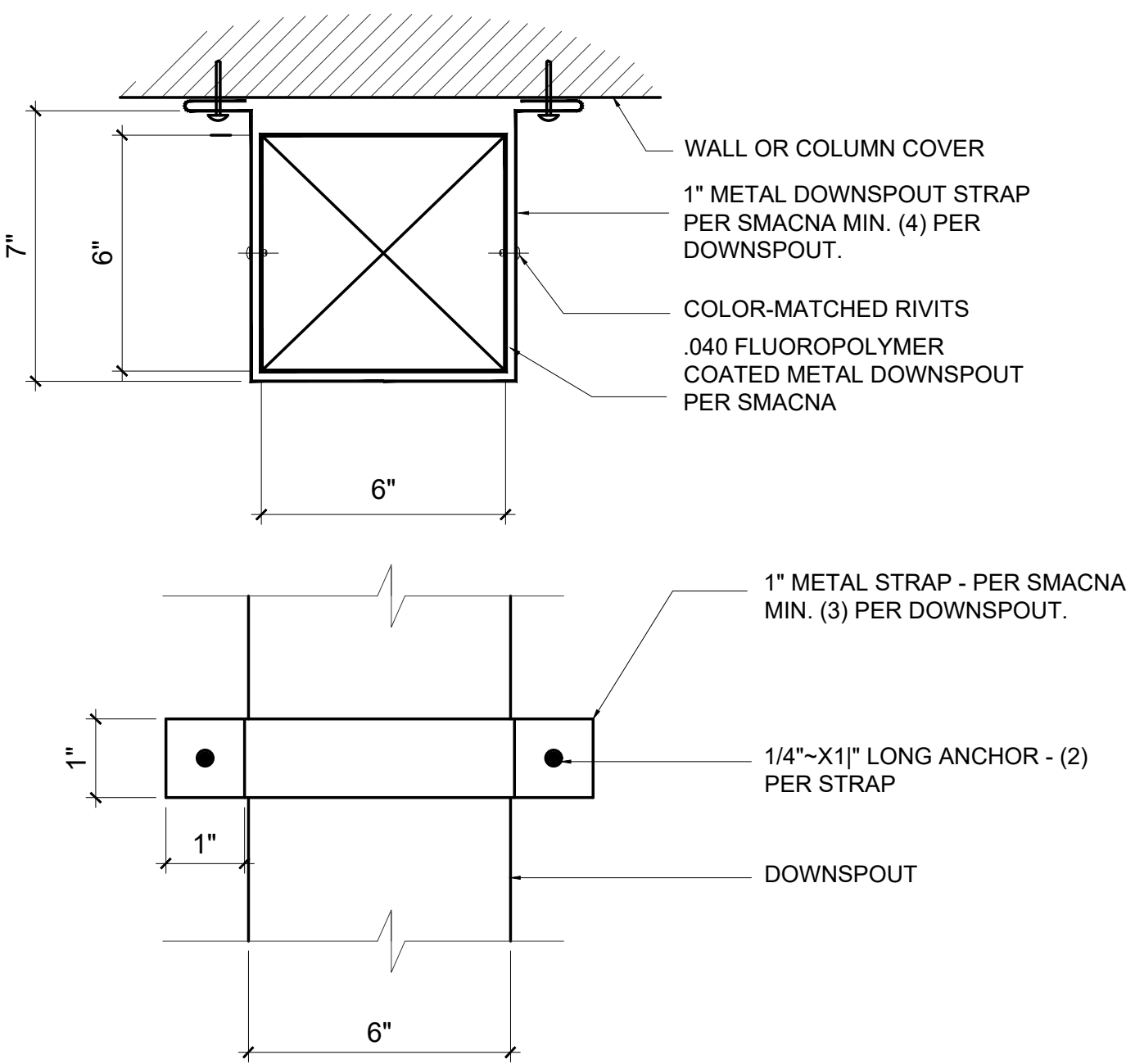
SQUARE PENETRATION
SECTION A
OPEN FRAMING AND SOLID SUBSTRATE

DOUBLE LOCK ZEE-LOCK PANEL DZ-82

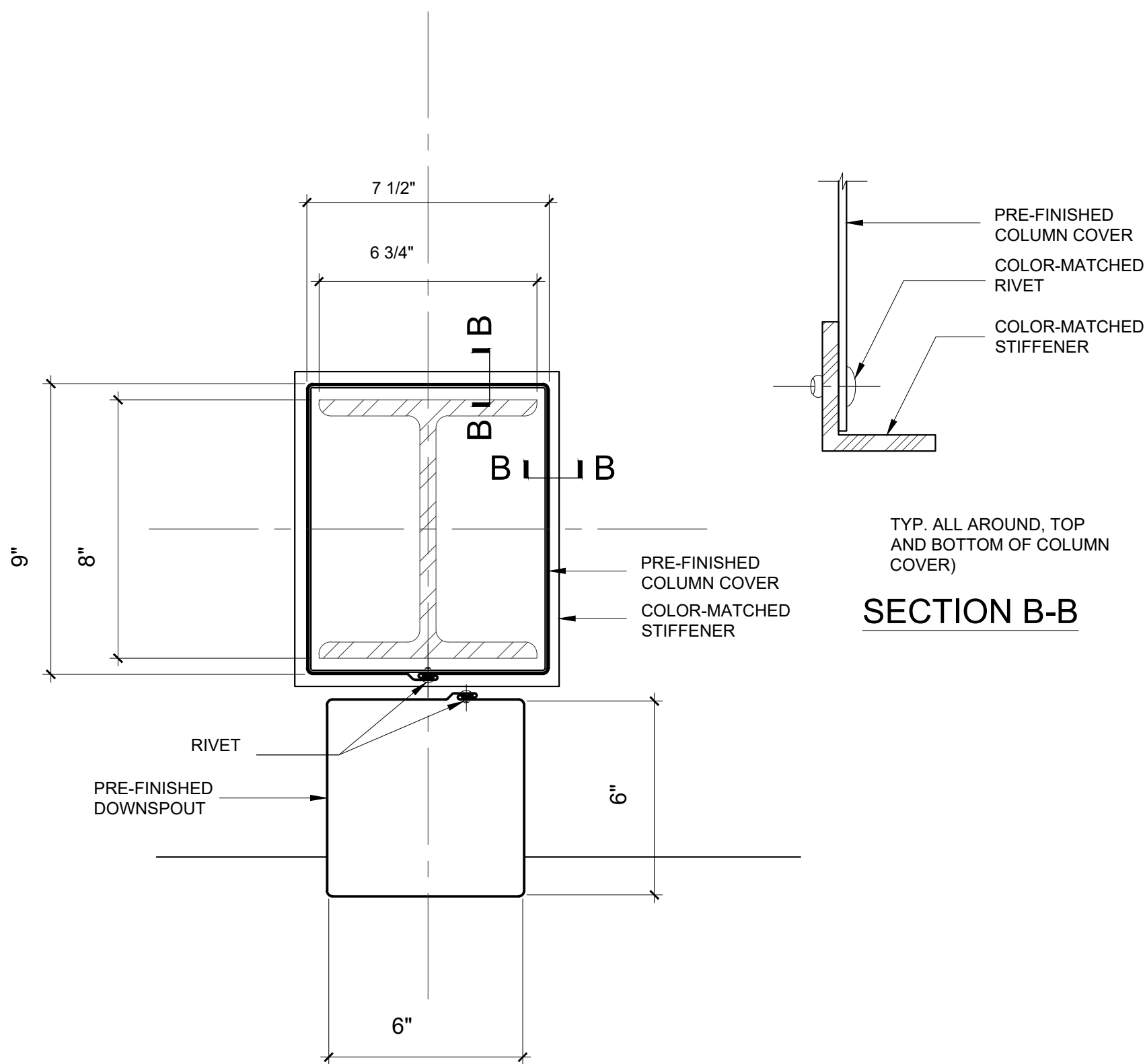


PIPE PENETRATION
(PREFERRED METHOD)
IN PAN OF PANEL ONLY
OPEN FRAMING AND SOLID SUBSTRATE

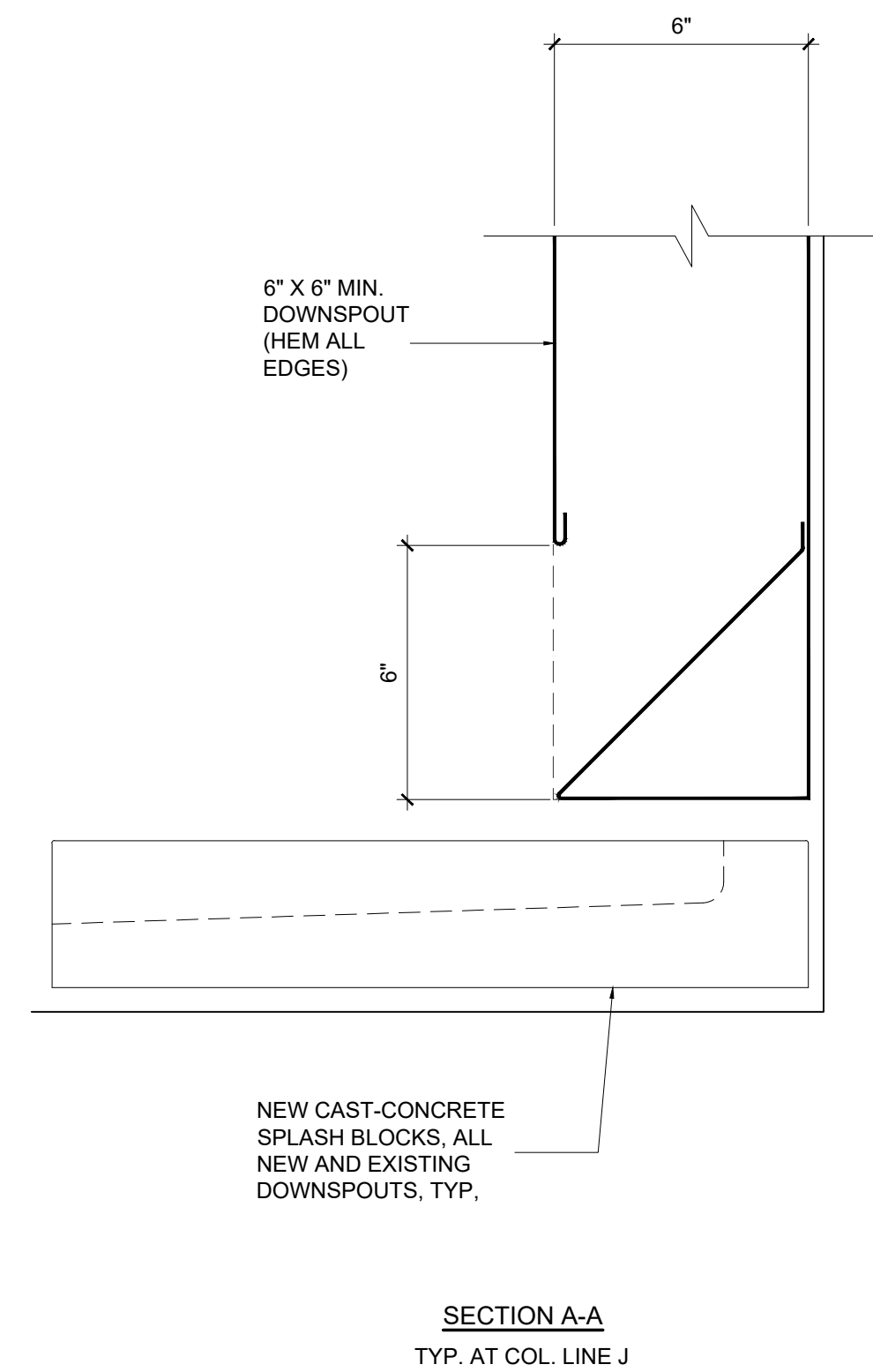
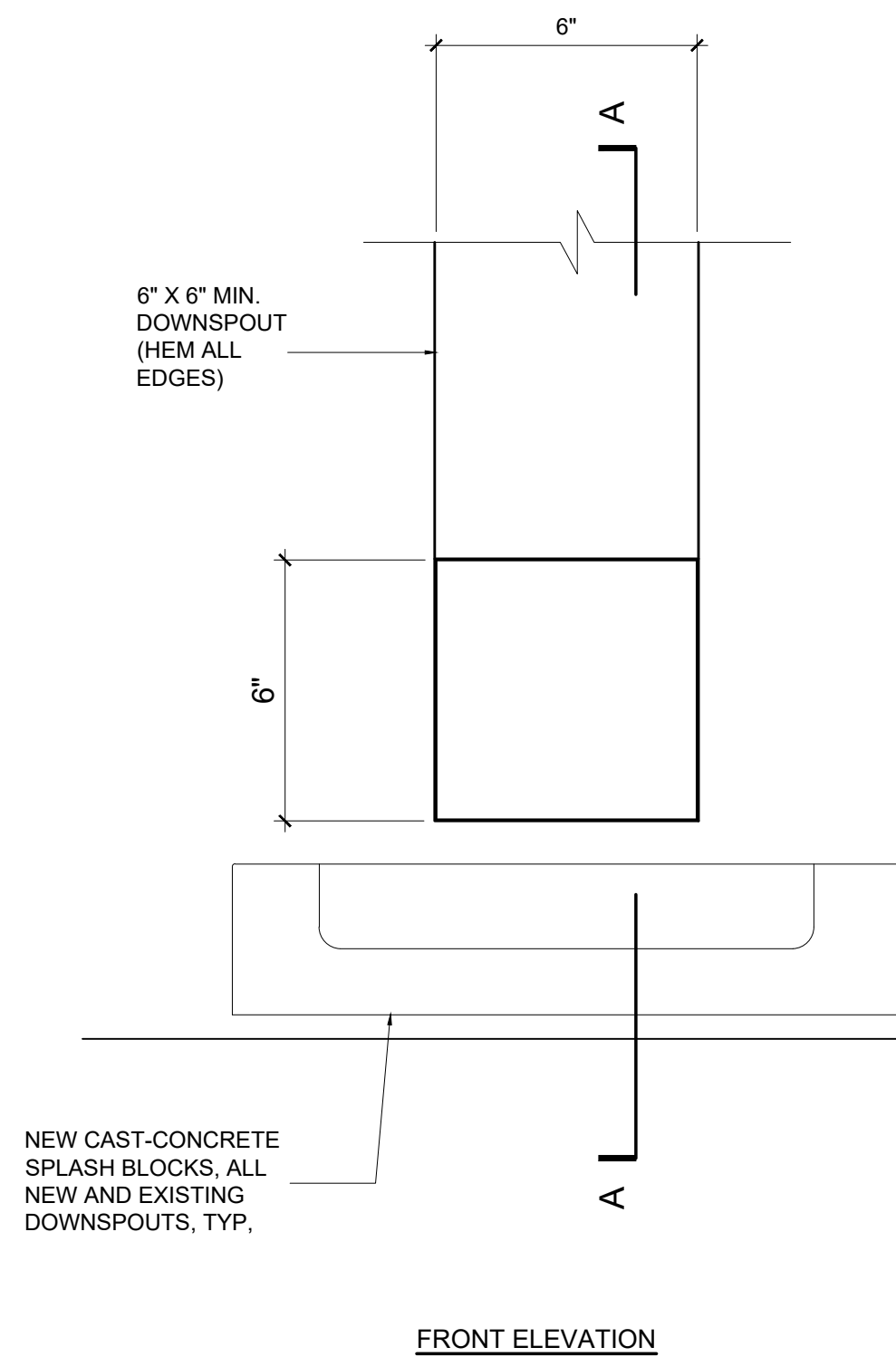
DOUBLE LOCK ZEE-LOCK PANEL DZ-80



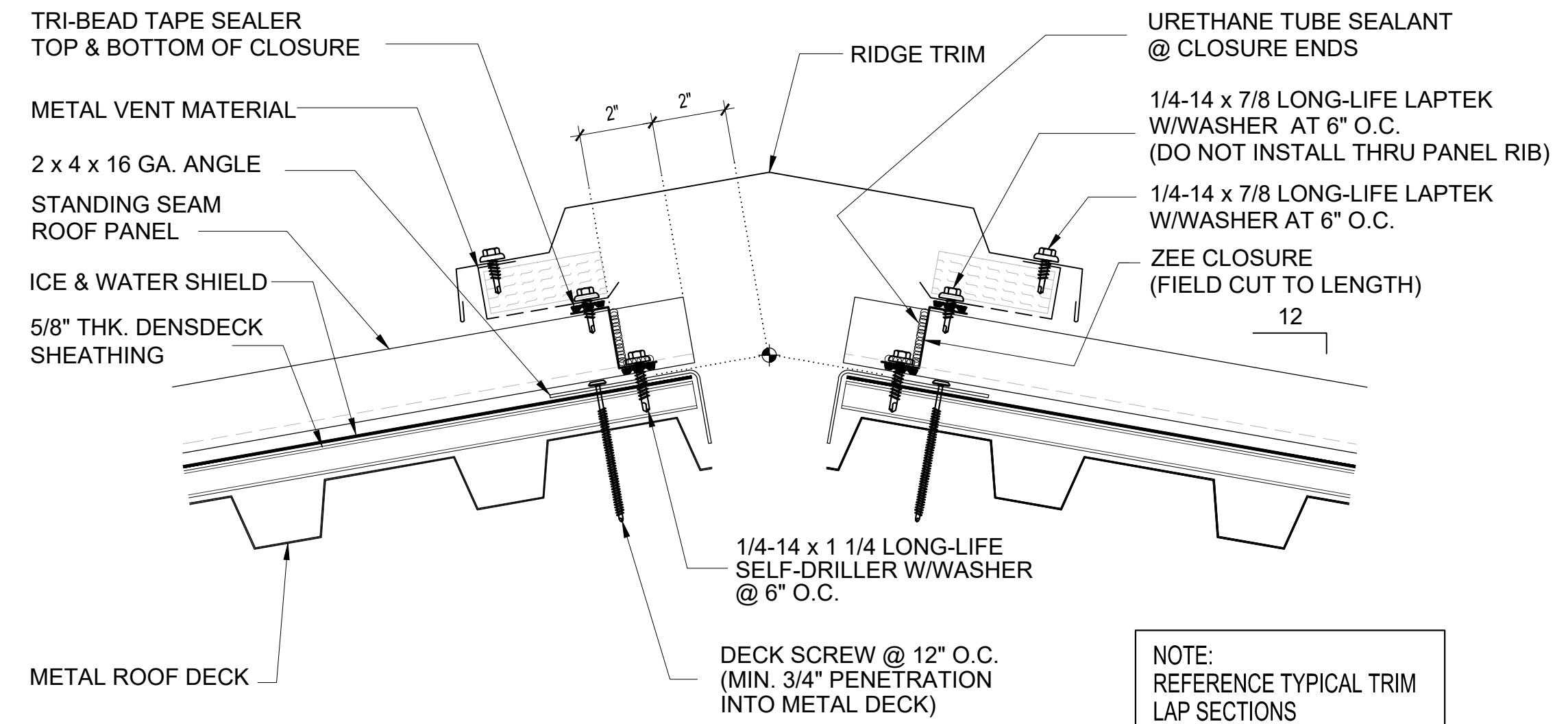
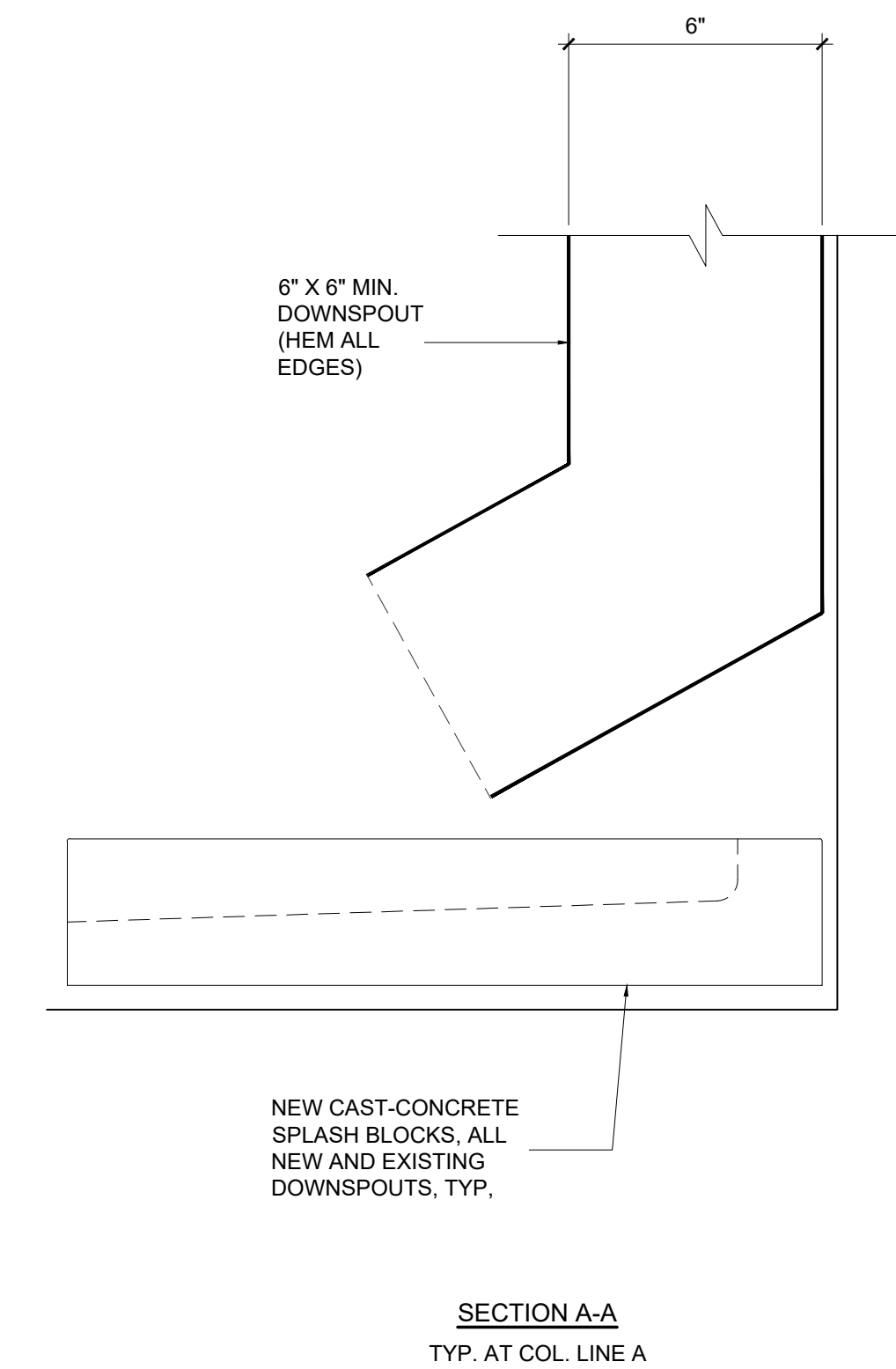
4
A3.3 | A-3.3 **DETAIL - DOWNSPOUT STRAPS**
SCALE: 3" = 1'-0



3
A3.3 | A-3.3 **DETAIL - COLUMNCOVERS/DOWNSPOUTS**
SCALE: 3" = 1'-0



1
A3.3 | A-3.3 **DETAIL - DOWNSPOUTS**
SCALE: 3" = 1'-0



2
A-2.2 | A-3.3 **DETAIL - VENTED RIDGE**
SCALE: 3"=1'-0"

NOTES:

- GUTTER DEPTH TO WIDTH RATIO 0.75 MINIMUM.



N-Y ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
2750 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
PHONE (504) 885-5500
FAX (504) 885-5595

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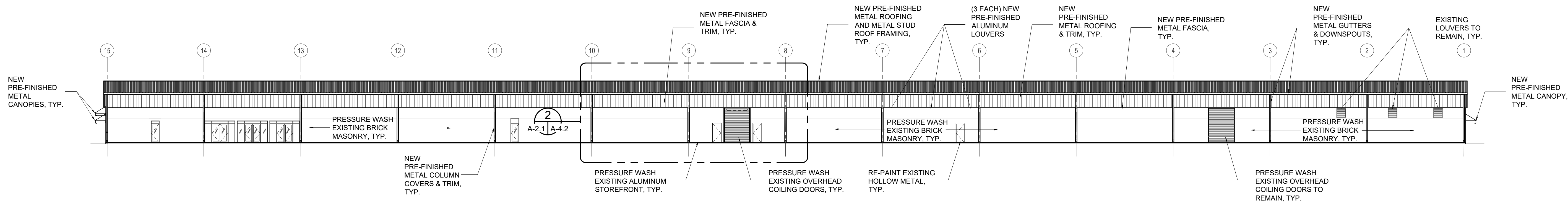
N-Y Proj No: 21023.01
Date: June 9, 2023
Revised:

**GUTTERS &
DOWNSPOUT
DETAILS**

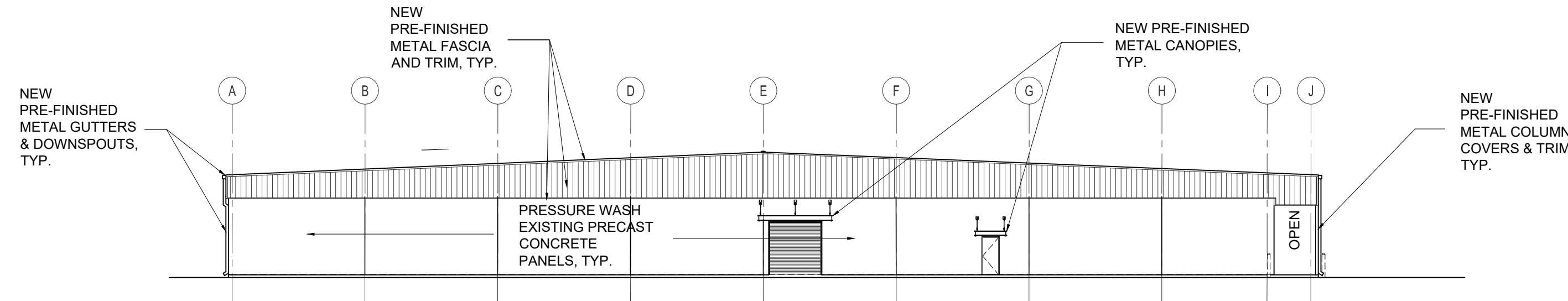
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A-3.3

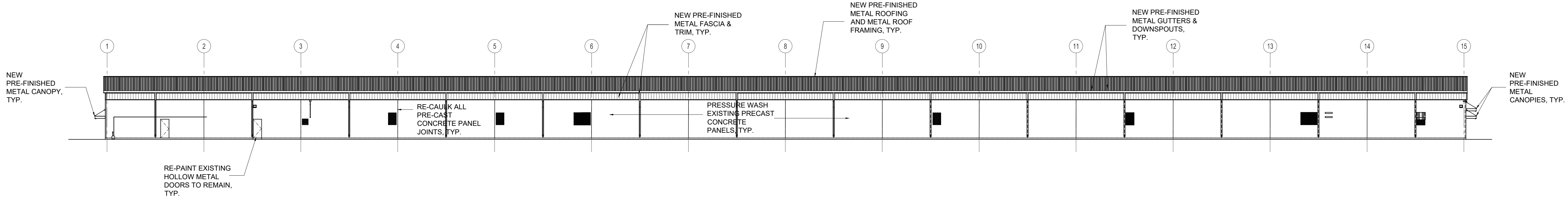
Sheet 22 of 42



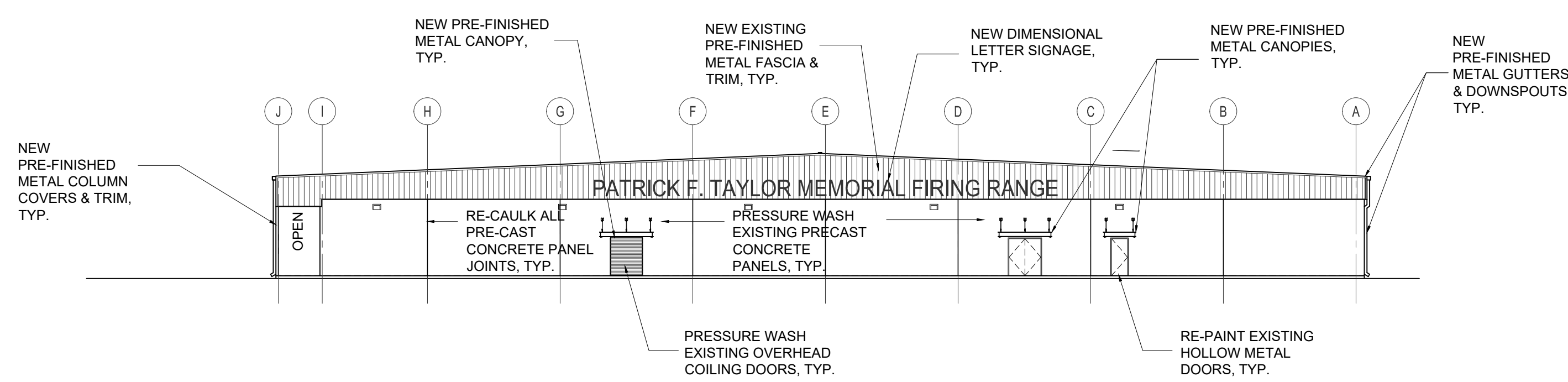
1
A-2.1 | A-4.1
NEW EXTERIOR ELEVATION
SCALE: 1"=20'-0"



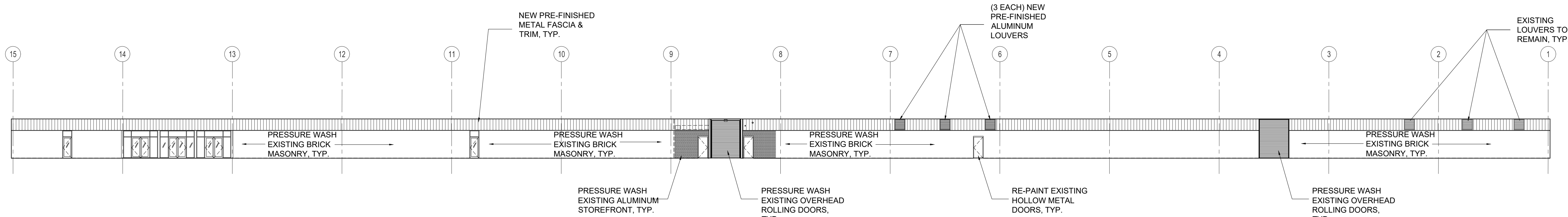
2
A-2.1 | A-4.1
NEW EXTERIOR ELEVATION
SCALE: 1"=20'-0"



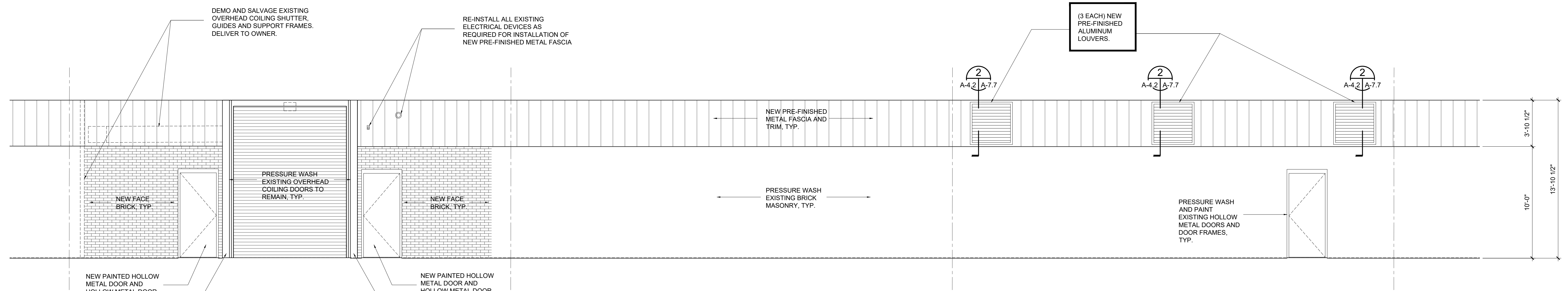
3
A-2.1 | A-4.1
NEW EXTERIOR ELEVATION
SCALE: 1"=20'-0"



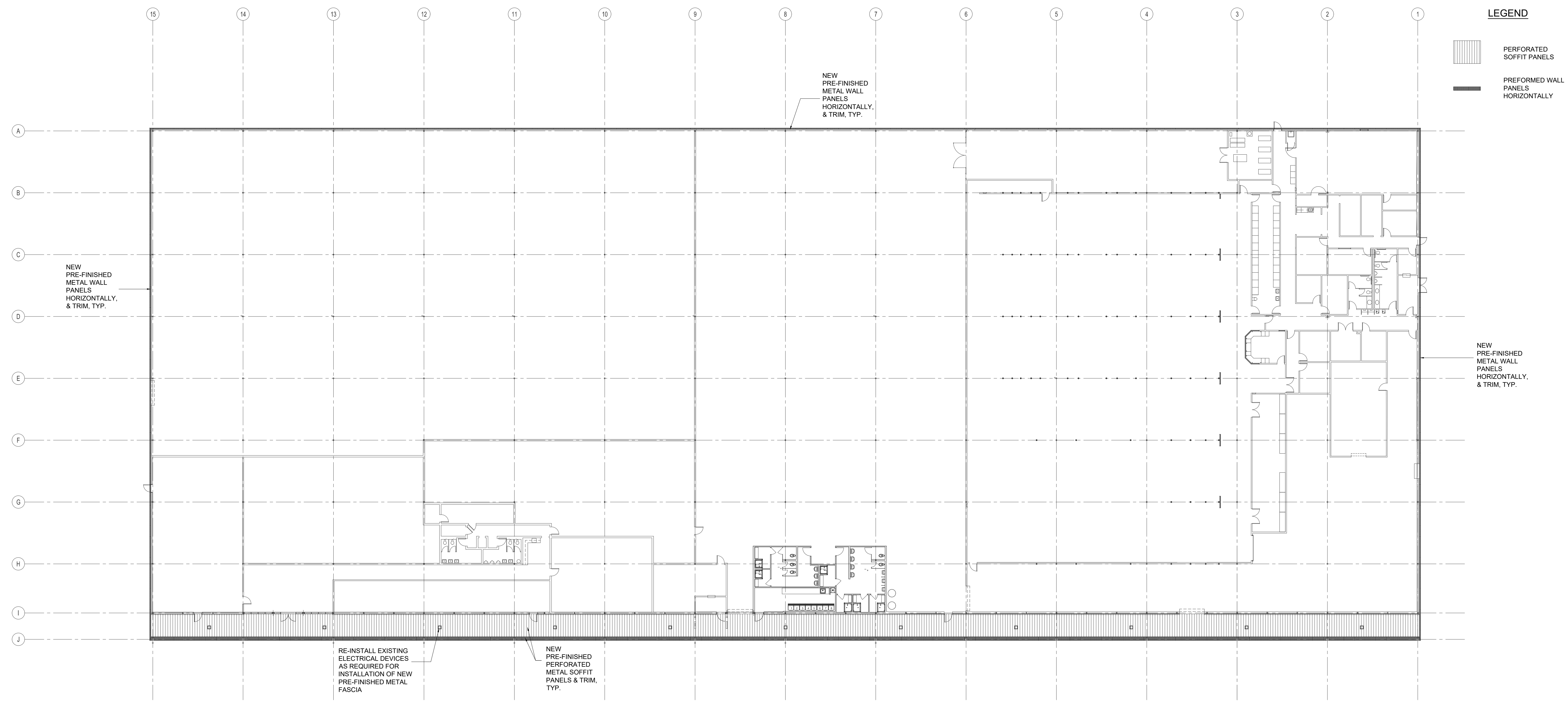
4
A-2.1 | A-4.1
NEW EXTERIOR ELEVATION
SCALE: 1"=20'-0"



5
A-2.1 | A-4.1
NEW EXTERIOR HIDDEN ELEVATION
SCALE: 1"=20'-0"



2
D-4.1 | D-4.2
TYPICAL NEW ENLARGED EXTERIOR HIDDEN ELEVATION
SCALE: 1/4"=1'-0"



1
A-4.1 | A-4.2
NEW SOFFIT PLAN
SCALE: 1" = 240'-0"

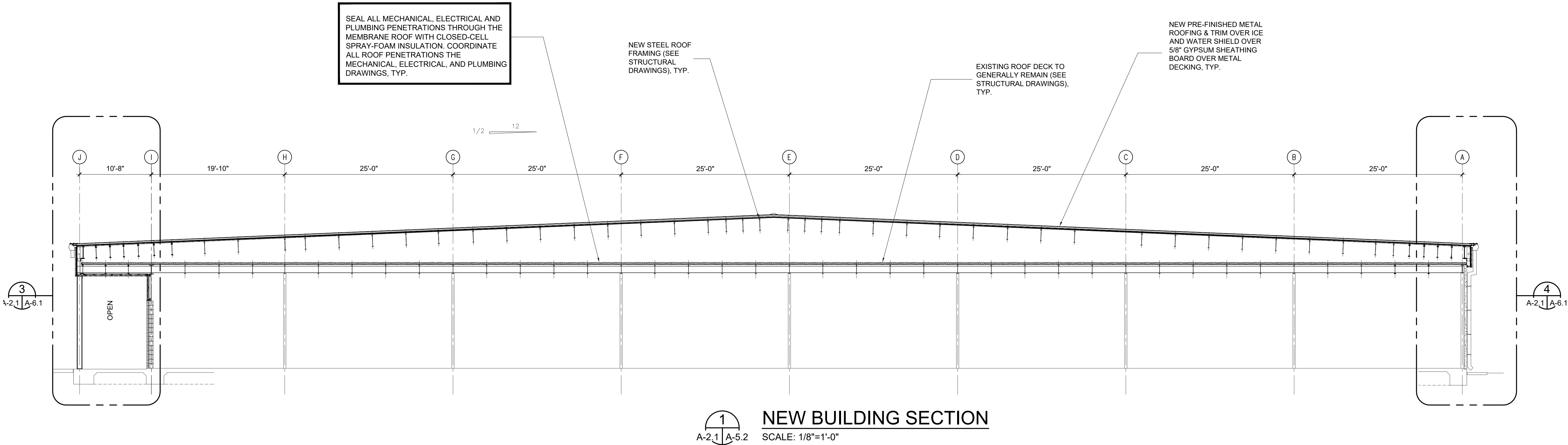
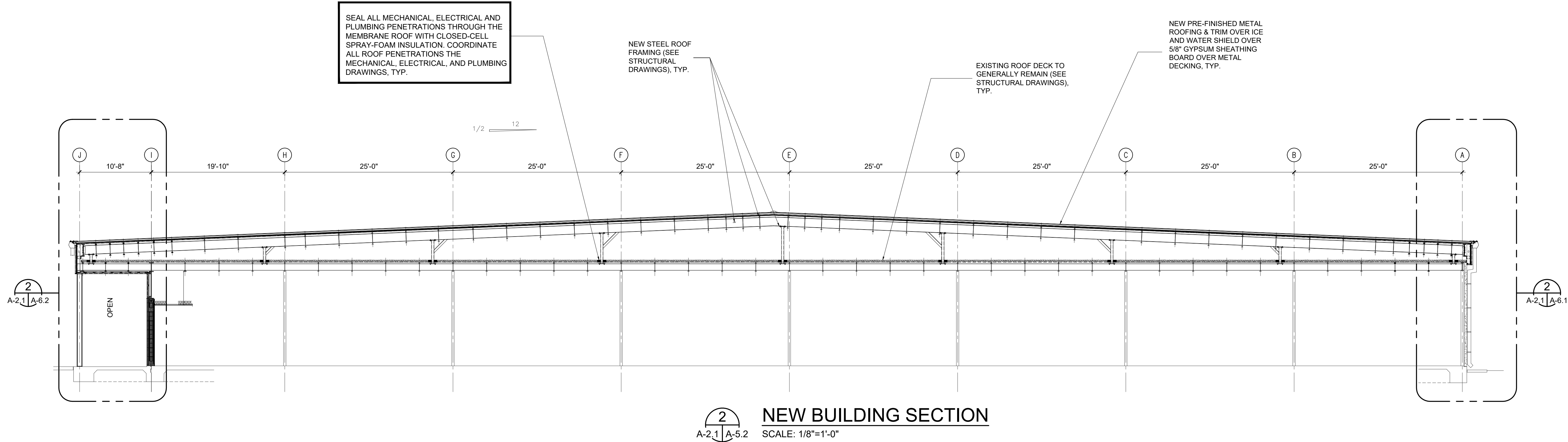


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ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
7750 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
PHONE: (504) 885-0500
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NEW EXTERIOR ELEVATIONS & SOFFIT PLAN
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CHECKED BY: MB
DESIGNED BY: MS



- KEYNOTES**
- 1 DEMO WINDOW AND WALL. PROVIDE NEW 8" WIDE CASSED OPENING.
 - 2 DEMO EXISTING DOOR AND FRAME. PROVIDE NEW 4" WIDE CASSED OPENING.
 - 3 DEMO EXISTING FURR-DOWN. PROVIDE NEW CEILING TO MATCH EXISTING.
 - 4 DEMO EXISTING DOOR AND DOOR FRAME. INFILL WALL TO MATCH EXISTING.
 - 5 DEMO EXISTING WALL, EXISTING DOOR AND EXISTING DOOR FRAME.
 - 6 DEMO EXISTING WINDOW. INFILL WALL TO MATCH EXISTING.
 - 7 DEMO EXISTING CEILING AND WOOD CEILING JOISTS. PROVIDE NEW SUSPENDED CEILING.
 - 8 PROVIDE NEW RECEPTION WINDOW IN EXISTING WALL.
 - 9 NEW DOOR AND DOOR FRAME IN EXISTING WALL.
 - 10 DEMO EXISTING WALL CABINETS AND BASE CABINETS. PROVIDE NEW WALL CABINETS AND BASE CABINETS.
 - 11 NEW WALLS TO DECK ABOVE THIS ROOM.
 - 12 NEW WALL AND DOOR.
 - 13 NEW OVERHEAD COILING DOOR.
 - 14 NEW CARPET.
 - 15 NEW VCT.
 - 16 NEW GYP. BD. ENTIRE WALL. FLOOR TO CEILING THIS WALL. PROVIDE NEW FIBERGLASS R-13 BATT INSULATION.
 - 17 NEW 24"x48" ACOUSTICAL TILE CEILING TILES (EXISTING SUSPENDED GRID TO REMAIN. PAINT FLAT BLACK.)
 - 18 SCREW NEW 24"x48" ACOUSTICAL TILE CEILING TILES ON EXISTING PLYWOOD TO REMAIN. PAINT FLAT BLACK.)
 - 19 SANDBLAST ALL STEEL BAFFLES, STRUCTURAL POSTS, AND OTHER OTHER EXPOSED STEEL DOWN TO BARE METAL. TREAT WITH CHEMICAL RUST REMOVER. PRIME AND FINISH PAINT FLAT BLACK.
 - 20 REPLACE ALL GYP. BD. TO 2'-0" ABOVE FINISHED FLOOR ALL ROOMS AND SPACES. RE-FINISH ENTIRE WALL.
 - 21 DEMO EXISTING ALUMINUM STOREFRONT SYSTEM. REPLACE ALUMINUM STOREFRONT SYSTEM WITH FACE-BRICK AND CMU TO MATCH EXISTING CONSTRUCTION TO REMAIN. PROVIDE NEW EXTERIOR HOLLOW METAL DOOR AND DOOR FRAME.
 - 22 GRIND AND POLISH EXISTING FINISHES DOWN TO EXISTING CONCRETE FLOOR. PREP FOR NEW FINISH AS SCHEDULED.



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ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
7750 LAKE VELA DRIVE
METairie, LOUISIANA 70002
PHONE: (504) 885-0500
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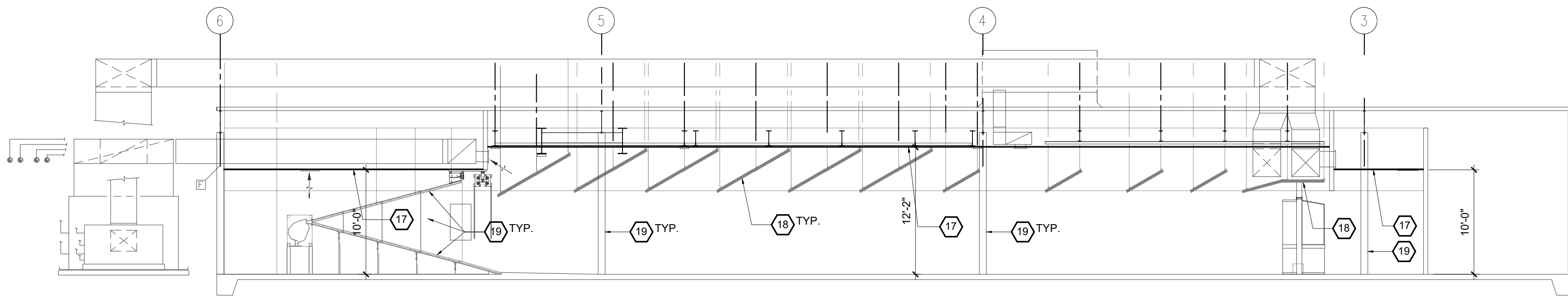
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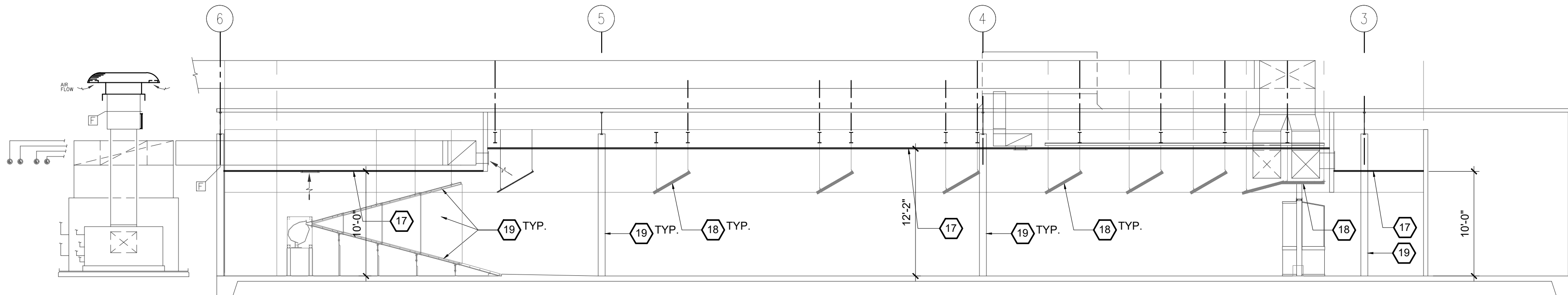
NEW BUILDING SECTIONS

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DESIGNED BY: MS

A-5.1
Sheet 25 of 42



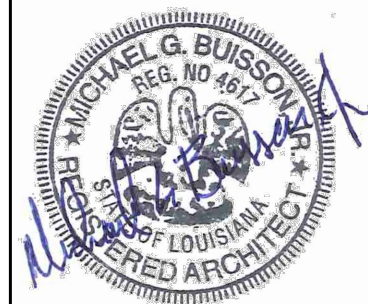
1
A-2.2 | A-5.3
EXISTING PARTIAL BUILDING SECTION
SCALE: 1/8"=1'-0"



2
A-2.2 | A-5.3
EXISTING PARTIAL BUILDING SECTION
SCALE: 1/8"=1'-0"

KEYNOTES

- 1 DEMO WINDOW AND WALL. PROVIDE NEW 8' WIDE CASED OPENING.
- 2 DEMO EXISTING DOOR AND FRAME. PROVIDE NEW 4' WIDE CASED OPENING.
- 3 DEMO EXISTING FURR-DOWN. PROVIDE NEW CEILING TO MATCH EXISTING.
- 4 DEMO EXISTING DOOR AND DOOR FRAME. INFILL WALL TO MATCH EXISTING.
- 5 DEMO EXISTING WALL, EXISTING DOOR AND EXISTING DOOR FRAME.
- 6 DEMO EXISTING WINDOW. INFILL WALL TO MATCH EXISTING.
- 7 DEMO EXISTING CEILING AND WOOD CEILING JOISTS. PROVIDE NEW SUSPENDED CEILING.
- 8 PROVIDE NEW RECEPTION WINDOW IN EXISTING WALL.
- 9 NEW DOOR AND DOOR FRAME IN EXISTING WALL.
- 10 DEMO EXISTING WALL CABINETS AND BASE CABINETS. PROVIDE NEW WALL CABINETS AND BASE CABINETS.
- 11 NEW WALLS TO DECK ABOVE THIS ROOM.
- 12 NEW WALL AND DOOR.
- 13 NEW OVERHEAD COILING DOOR.
- 14 NEW CARPET.
- 15 NEW VCT.
- 16 NEW GYP. BD. ENTIRE WALL. FLOOR TO CEILING THIS WALL. PROVIDE NEW FIBERGLASS R-13 BATT INSULATION.
- 17 NEW 24"x48" ACOUSTICAL TILE CEILING TILES (EXISTING SUSPENDED GRID TO REMAIN. PAINT FLAT BLACK.)
- 18 SCREW NEW 24"x48" ACOUSTICAL TILE CEILING TILES ON EXISTING PLYWOOD TO REMAIN. PAINT FLAT BLACK.)
- 19 SANDBLAST ALL STEEL BAFFLES, STRUCTURAL POSTS, AND OTHER OTHER EXPOSED STEEL DOWN TO BARE METAL. TREAT WITH CHEMICAL RUST REMOVER. PRIME AND FINISH PAINT FLAT BLACK.
- 20 REPLACE ALL GYP. BD. TO 2'-0" ABOVE FINISHED FLOOR ALL ROOMS AND SPACES. RE-FINISH ENTIRE WALL.
- 21 DEMO EXISTING ALUMINUM STOREFRONT SYSTEM. REPLACE ALUMINUM STOREFRONT SYSTEM WITH FACE-BRICK AND CMU TO MATCH EXISTING CONSTRUCTION TO REMAIN. PROVIDE NEW EXTERIOR HOLLOW METAL DOOR AND DOOR FRAME.
- 22 GRIND AND POLISH EXISTING FINISHES DOWN TO EXISTING CONCRETE FLOOR. PREP FOR NEW FINISH AS SCHEDULED.



N-Y ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
7750 LAKE VELA DRIVE
METAIRIE, LOUISIANA 70002
PHONE: (504) 885-0500
FAX: (504) 885-0595

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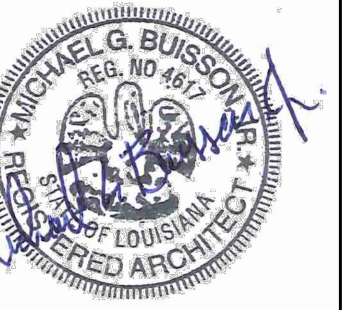
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**EXISTING
PARTIAL
BUILDING
SECTIONS**

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A-5.3

Sheet 26 of 42



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PROGRAM & PROJECT MANAGERS
7750 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
PHONE: 504.885-0500
FAX: 504.885-0595

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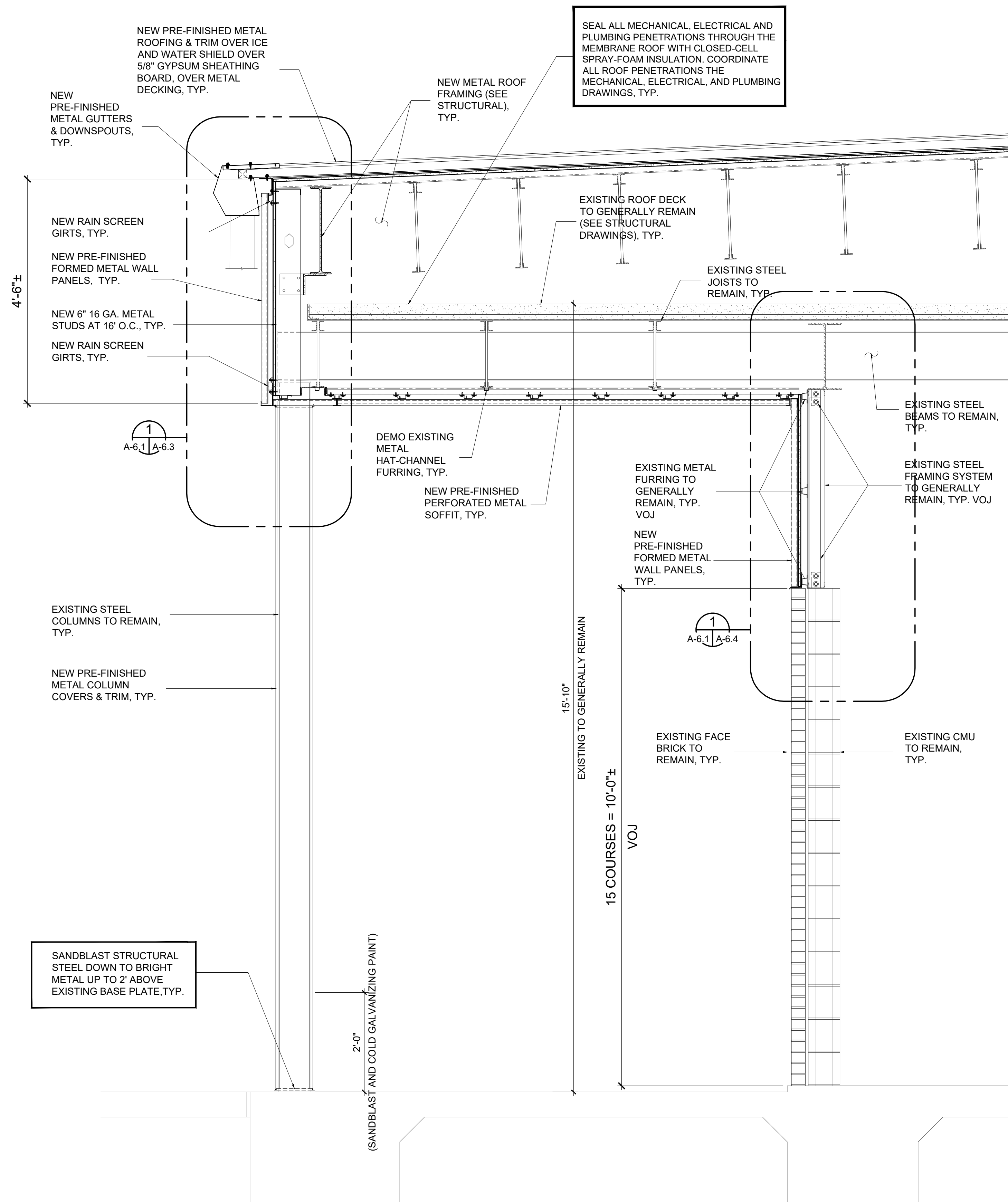
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**WALL
SECTIONS**

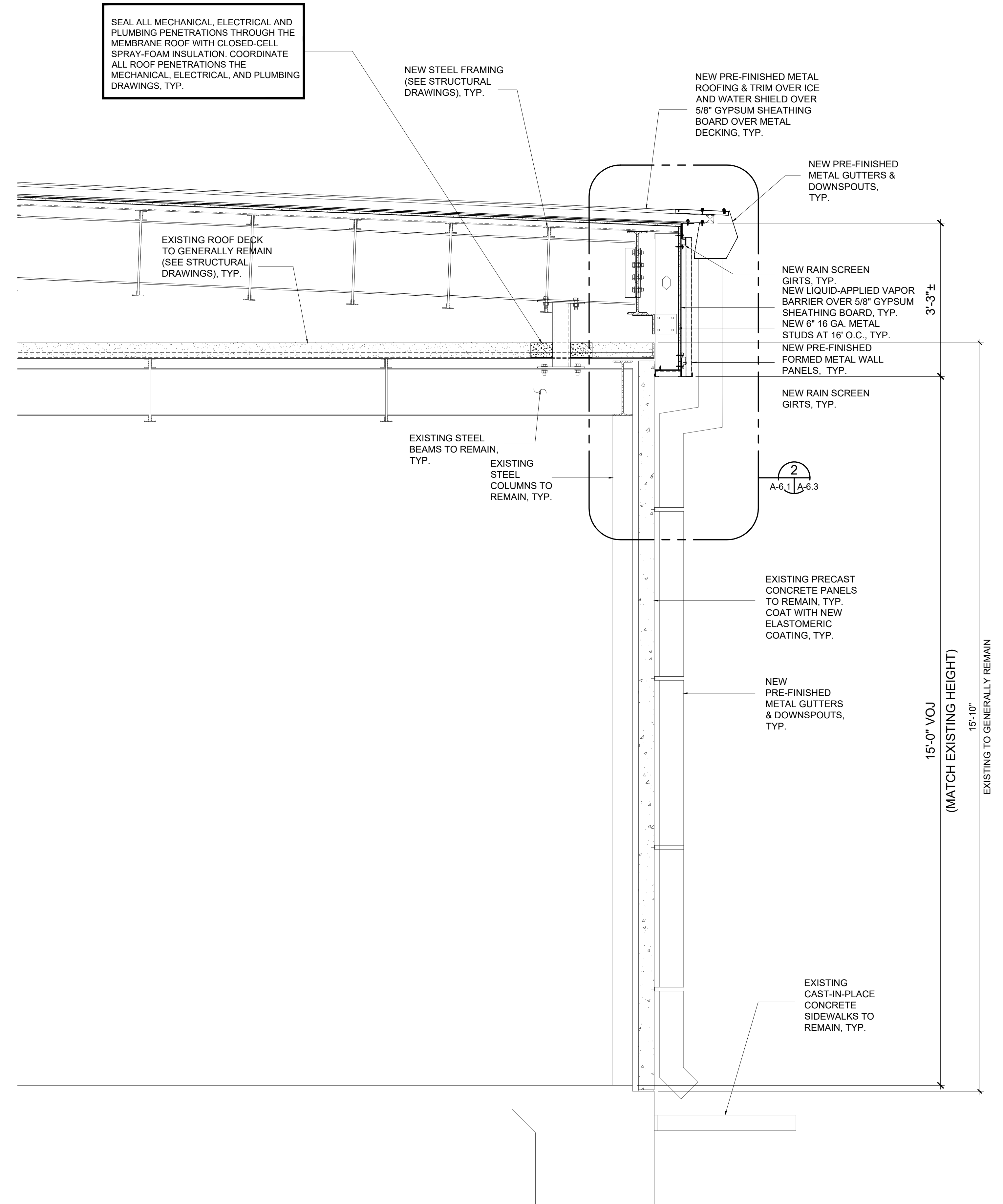
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A-6.1

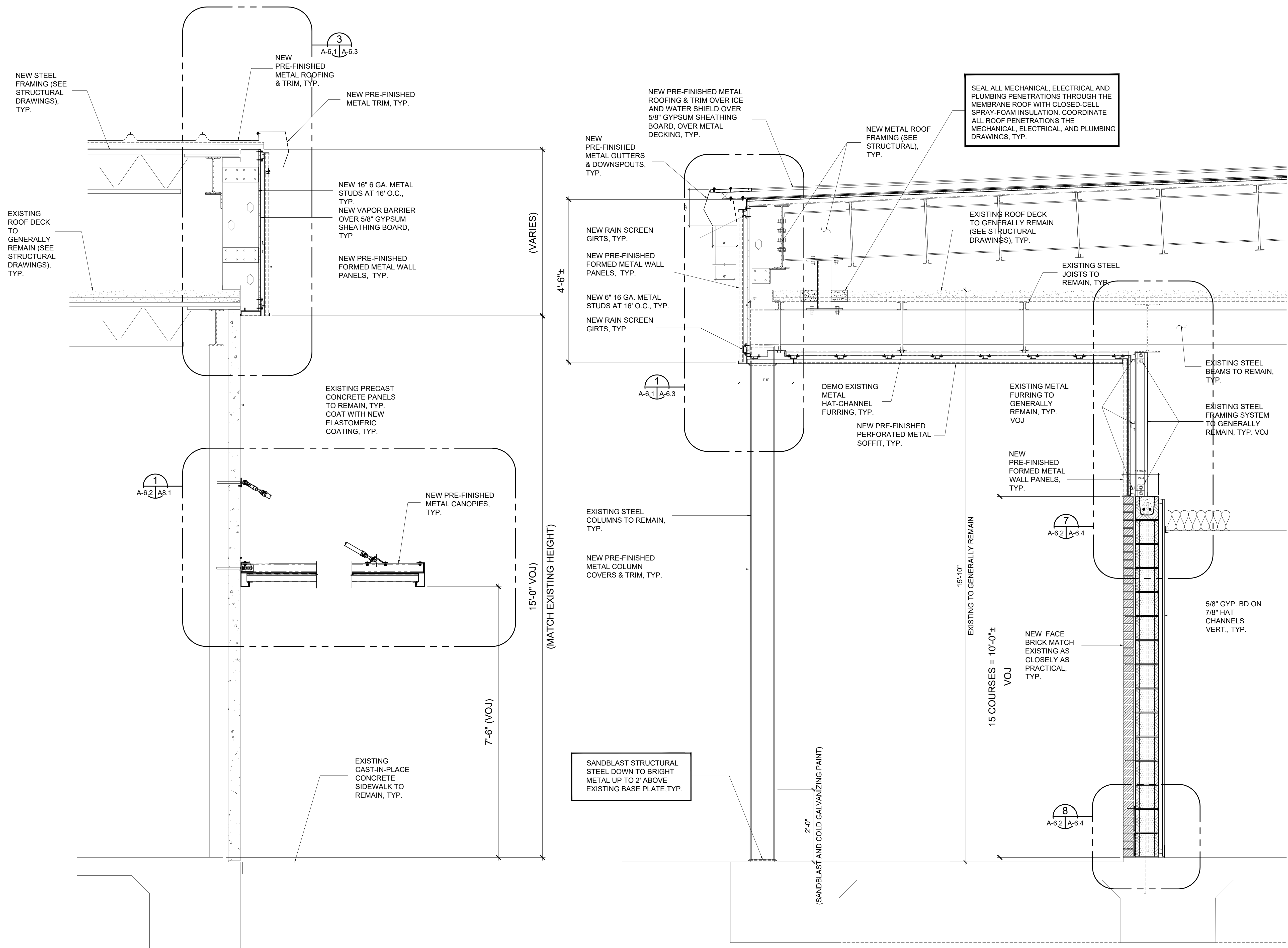
Sheet 27 of 42



1
A-2.1 | A-6.1
WALL SECTION
SCALE: 1/8"=1'-0"



2
A-2.1 | A-6.1
WALL SECTION
SCALE: 1/8"=1'-0"



NOTES (ALL SHEETS):

- SHOP DRAWINGS: PROVIDE LARGE SCALE PROFESSIONALLY PREPARED SHOP DRAWINGS FROM THE APPROVED MANUFACTURERS FOR ALL PRE-FINISHED METAL AND RAINSCREEN.
- WELDS AND STRUCTURAL STEEL: ALL WELDS AND NEW BARE STRUCTURAL STEEL PREPARED AND PRIMED WITH RUST INHIBITIVE PAINT, TYP.
- EXPOSED STEEL FIRING RANGE BAFFLES: SANDBLAST ALL FIRING RANGE STEEL BAFFLES, INTERIOR STRUCTURAL POSTS, AND OTHER OTHER INTERIOR EXPOSED STEEL AT FIRING RANGE DOWN TO BARE METAL. TREAT WITH CHEMICAL RUST REMOVER, PRIME AND FINISH PAINT FLAT BLACK. SEE LOCATIONS ON BUILDING SECTIONS.
- REFURBISH EXISTING STRUCTURAL STEEL COLUMNS (AT FRONT PORCH); REFURBISH EXISTING STRUCTURAL STEEL COLUMNS (AT FRONT PORCH) BY SANDBLASTING AND COATING W/ BRUSH-ON COLD GALVANIZING COMPOUND, ZRC COLD GALVANIZING COMPOUND, OR EQUAL. SEE LOCATIONS ON BUILDING SECTIONS.



N-Y ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
2700 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
PHONE: (504) 885-0000
FAX: (504) 885-0099

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**WALL
SECTIONS**

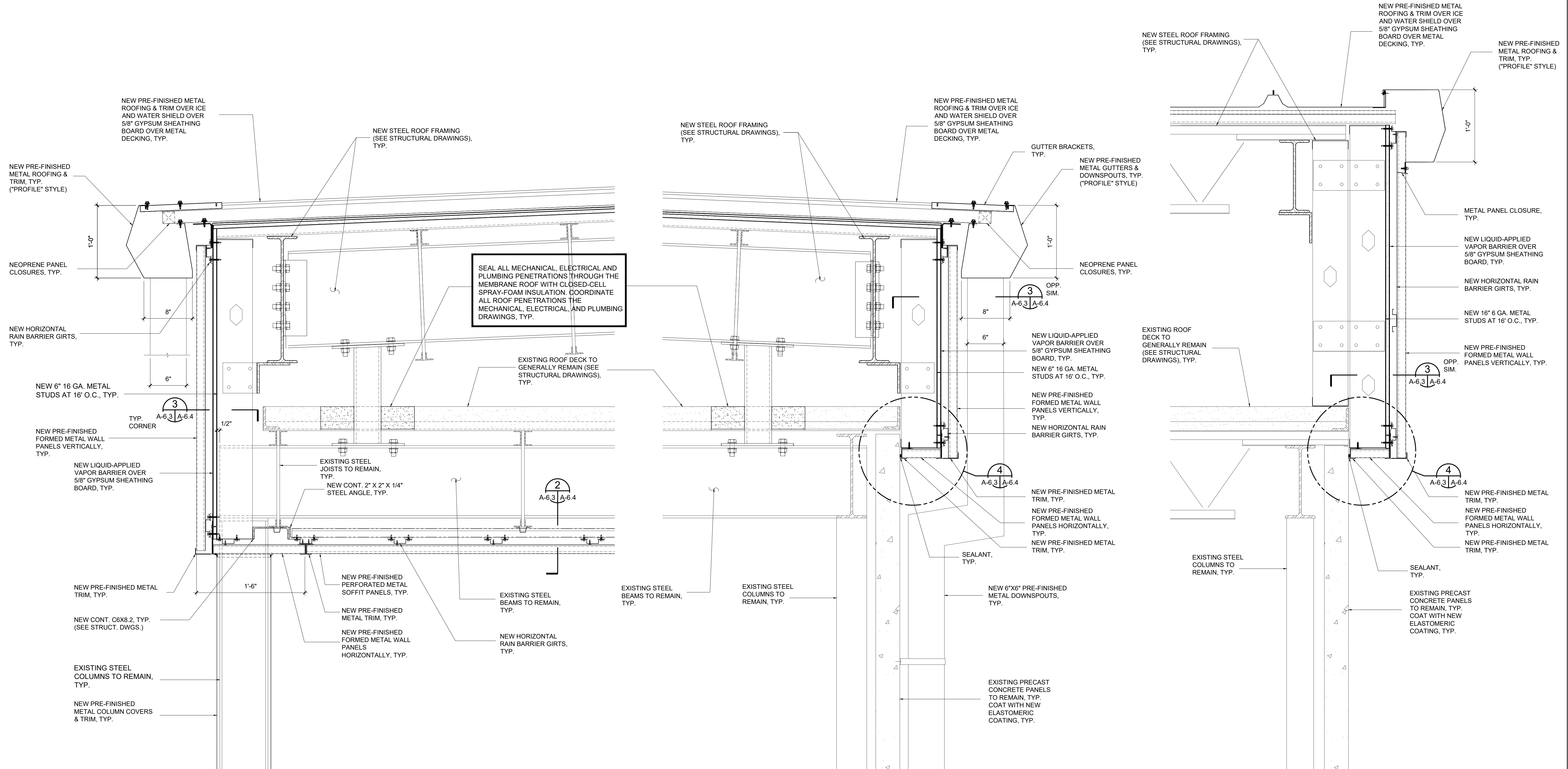
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CHECKED BY: MB
DESIGNED BY: MS

A-6.2

Sheet 28 of 42

1
A-2.1 | A-6.2
WALL SECTION
SCALE: 1/8"=1'-0"

2
A-2.1 | A-6.2
WALL SECTION
SCALE: 1/8"=1'-0"



1 WALL DETAIL
A-6.1 | A-6.3
SCALE: 1 1/2"=1'-0"

2 WALL DETAIL
A-6.1 | A-6.3
SCALE: 1 1/2"=1'-0"

3 WALL DETAIL
A-6.1 | A-6.3
SCALE: 1 1/2"=1'-0"











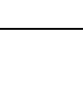
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TAILS
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MADE BY: MB
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




LEGEND:

-  DEMO EXISTING LIGHT FIXTURE
-  DEMO EXISTING 2X4 GRID AND LIGHT FIXTURE
-  EXISTING LIGHT FIXTURE TO REMAIN
-  EXISTING 2X4 GRID AND LIGHT FIXTURE
-  NEW 2X4 GRID AND LIGHT FIXTURE
-  NEW 2X2 GRID AND LIGHT FIXTURE
-  EXISTING GYP. BD. CEILING TO REMAIN
-  NEW GYP. BD. CEILING TO REMAIN
-  NO CEILING

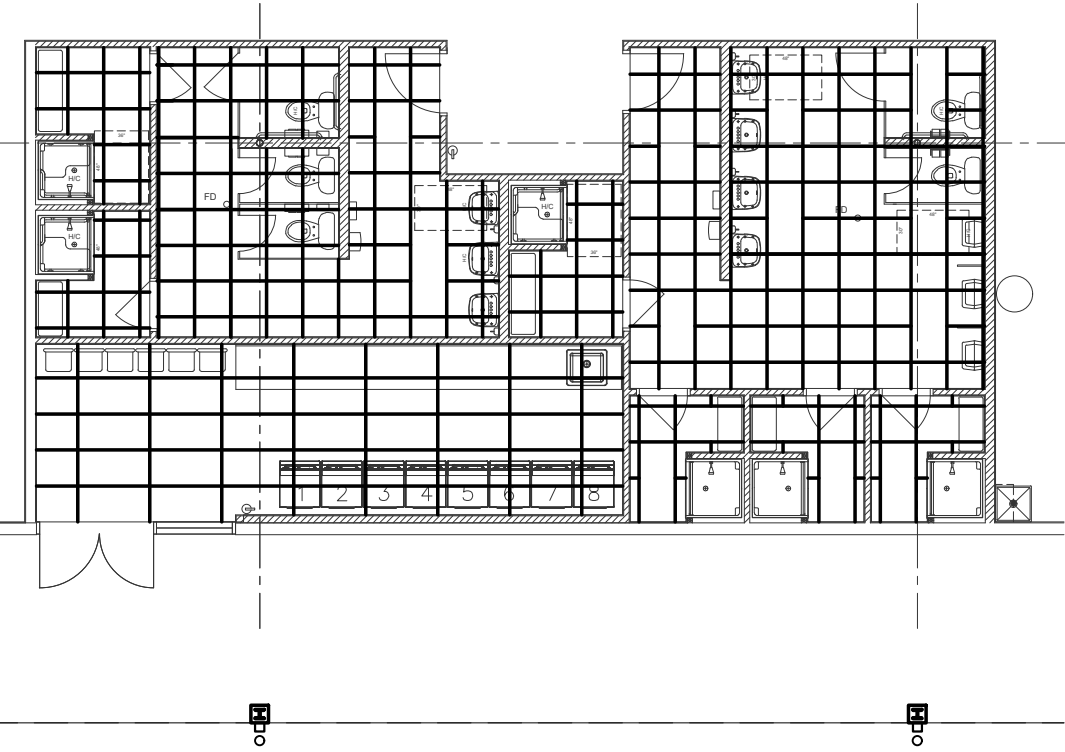
SCOPE OF WORK

1. RECONFIGURE EXISTING CEILING GRID AS REQUIRED IN RENOVATED ROOMS.
2. NEW 2X2 OR 2X4 CEILING TILE THROUGHOUT IN NEW SPACES AS INDICATED.
3. RELOCATE EXISTING LIGHT SWITCHES AS REQUIRED.

KEYNOTES

-  NEW 2X4 CEILING TILE THIS ROOM OR SPACE.
-  NEW 2X4 GRID, CEILING TILE AND LIGHT FIXTURES THIS ROOM OR SPACE.
-  EXTEND EXISTING GRID, AND NEW CEILING TILE AND LIGHT FIXTURE THIS ROOM OR SPACE.
-  NEW 12'X12' ACOUSTICAL TILE GLUED TO UNDERSIDE OF EXISTING BAFFLE.
-  NEW 2X2 GRID, CEILING TILE AND LIGHT FIXTURES THIS ROOM OR SPACE.

(SEE MECHANICAL &
ELECTRICAL DRAWINGS
FOR HVAC & LIGHTING
LAYOUTS)



2
A-2.1 | A-7.5

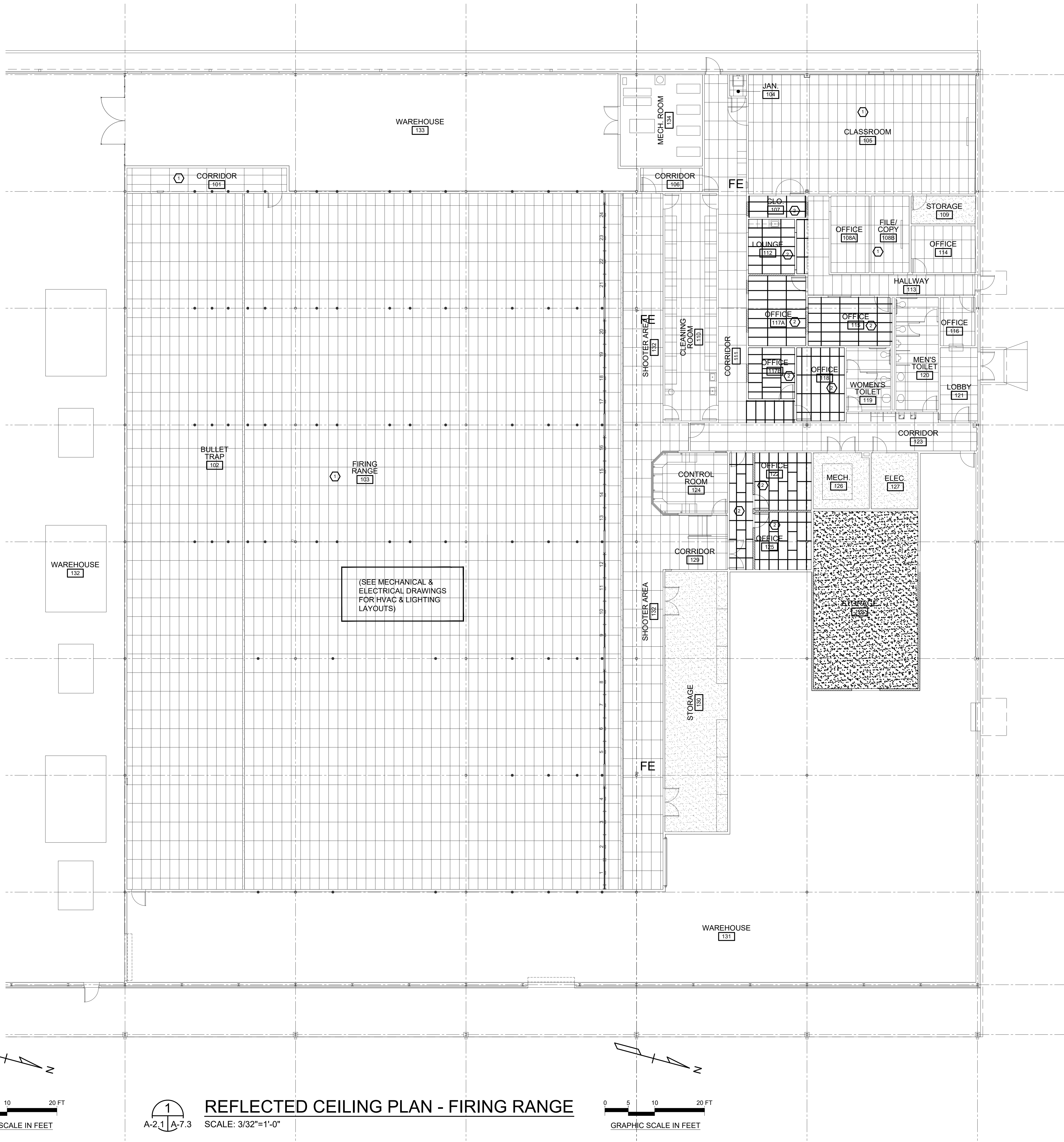
REFLECTED CEILING PLAN - WASHROOM
SCALE: 3/32"=1'-0"

0 5 10 20 FT
GRAPHIC SCALE IN FEET

1
A-2.1 | A-7.3

REFLECTED CEILING PLAN - FIRING RANGE
SCALE: 3/32"=1'-0"

0 5 10 20 FT
GRAPHIC SCALE IN FEET



FINISH SCHEDULE - NEW WASH ROOM

ROOM NUMBER	ROOM NAME	WALL FINISH	CEILING FINISH	CEILING HEIGHT	BASE	FLOOR	NOTES:
101	WOMEN'S SHOWER ROOM	CT/PAINT	ACT	9'-0"	CT	CT	
101A	SHOWER	CT/PAINT	ACT	9'-0"	CT	CT	
101B	SHOWER	CT/PAINT	ACT	9'-0"	CT	CT	
102	MEN'S SHOWER ROOM	CT/PAINT	ACT	9'-0"	CT	CT	
102A	SHOWER	CT/PAINT	ACT	9'-0"	CT	CT	
102B	SHOWER	CT/PAINT	ACT	9'-0"	CT	CT	
102C	SHOWER	CT/PAINT	ACT	9'-0"	CT	CT	
102D	SHOWER	CT/PAINT	ACT	9'-0"	CT	CT	
103	LAUNDRY	CT/PAINT	ACT	9'-0"	CT	CT	

FINISH SCHEDULE - EXISTING FIRING RANGE

[illegible]

LEGEND

H.M.	STAINLESS-STEEL HOLLOW METAL
S.C.	SOLID CORE
GALV.	HOT-DIPPED GALVANIZED
GYP. BD.	PAINTED GYPSUM BOARD (WALL), OR SUSPENDED PAINTED GYPSUM BOARD (CEILINGS)
RUBBER	4" RUBBER STRAIGHT BASE
VCT	12"x12x1/8" THK. VINYL COMPOSITION TILE FLOOR
ACT	2'x2' SUSPENDED ACOUSTICAL TILE CEILING
S.C. WOOD	PLASTIC LAMINATE-CLAD SOLID CORE WOOD DOOR
CT	CERAMIC TILE. FLOORS WITH NON-SLIP FINISH, WALLS MATT FINISH.
NONE	NO FINISH REQUIRED. SEE NOTES BELOW FOR FINISHING EXPOSED METAL STRUCTURE.

FINISH GENERAL NOTES

1. PROVIDE CERAMIC TILE ENDS AND CORNER UNITS AS REQUIRED.



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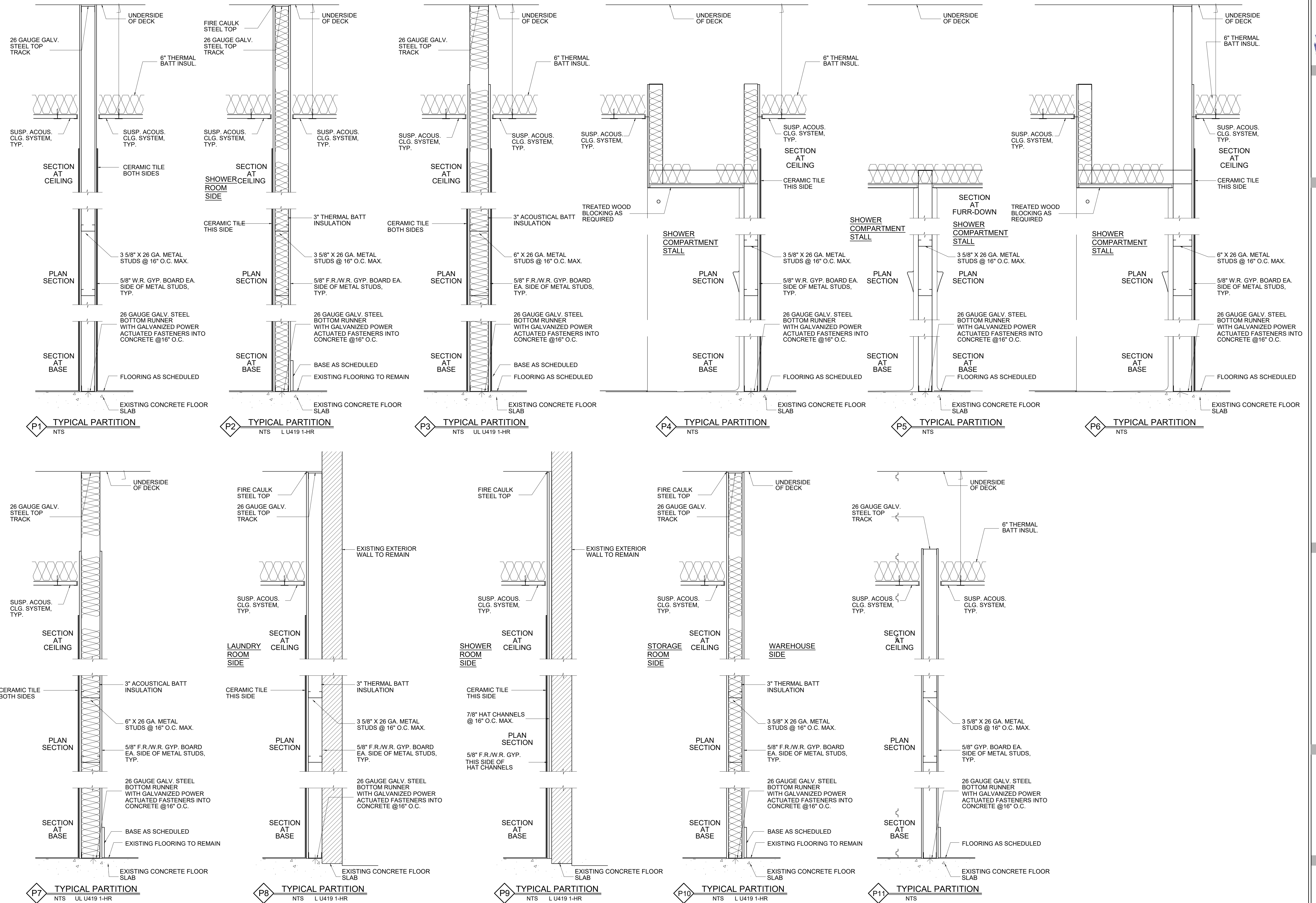
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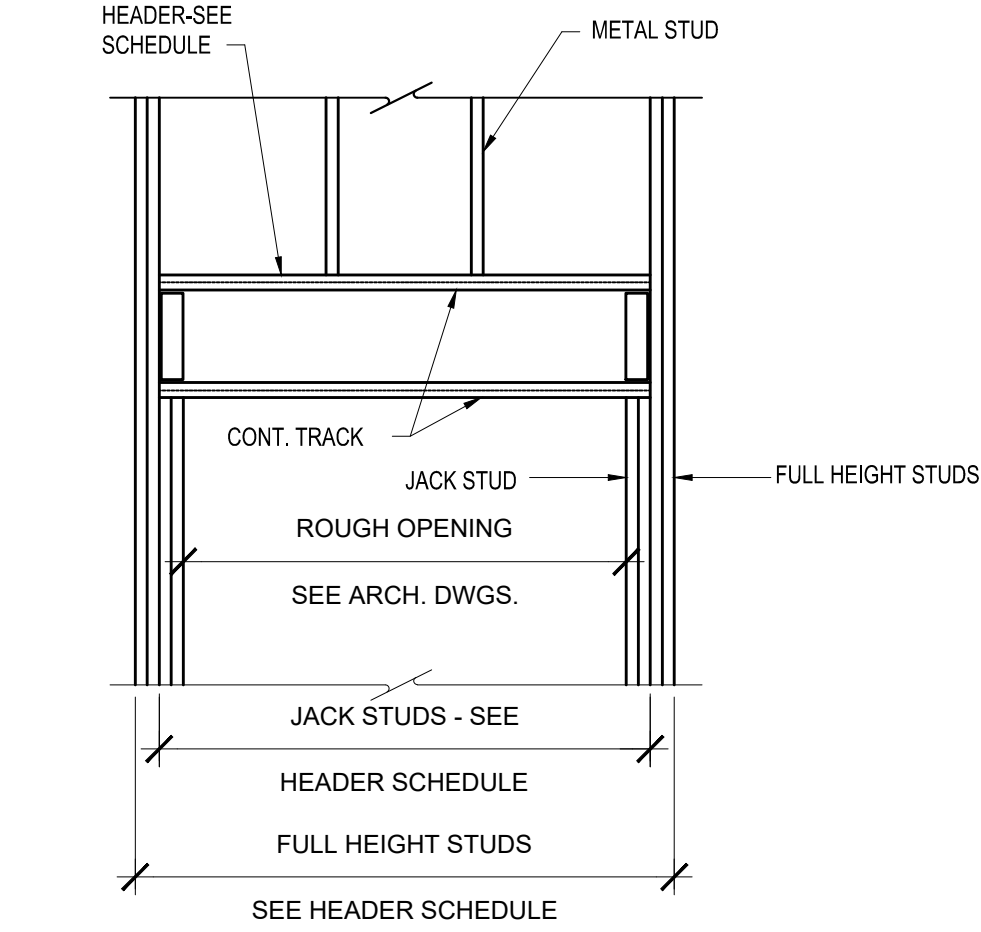
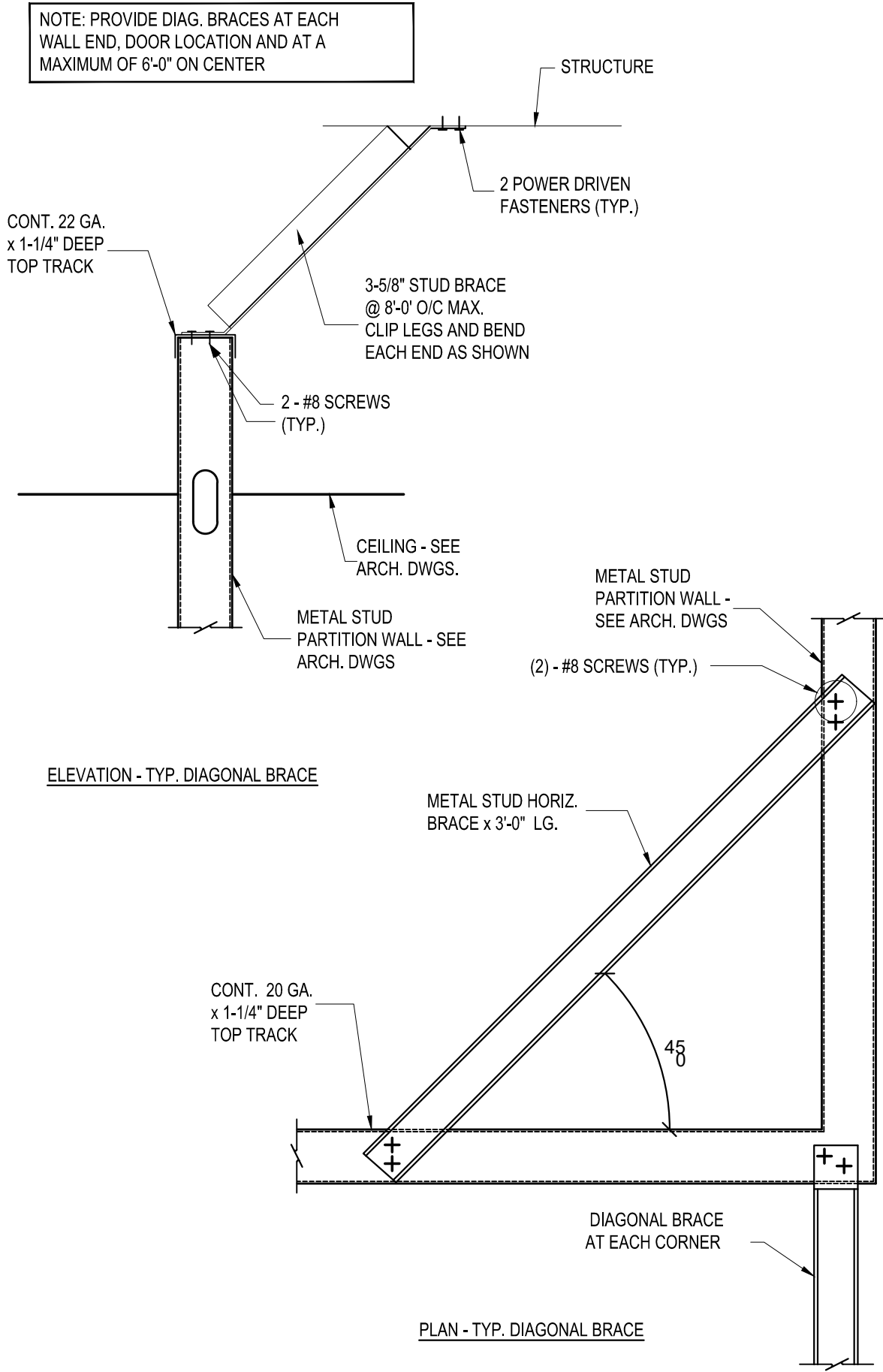
FINISH SCHEDULES

DRAWN BY: MS
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DESIGNED BY: MS

A-7.2

Sheet 32 of 42





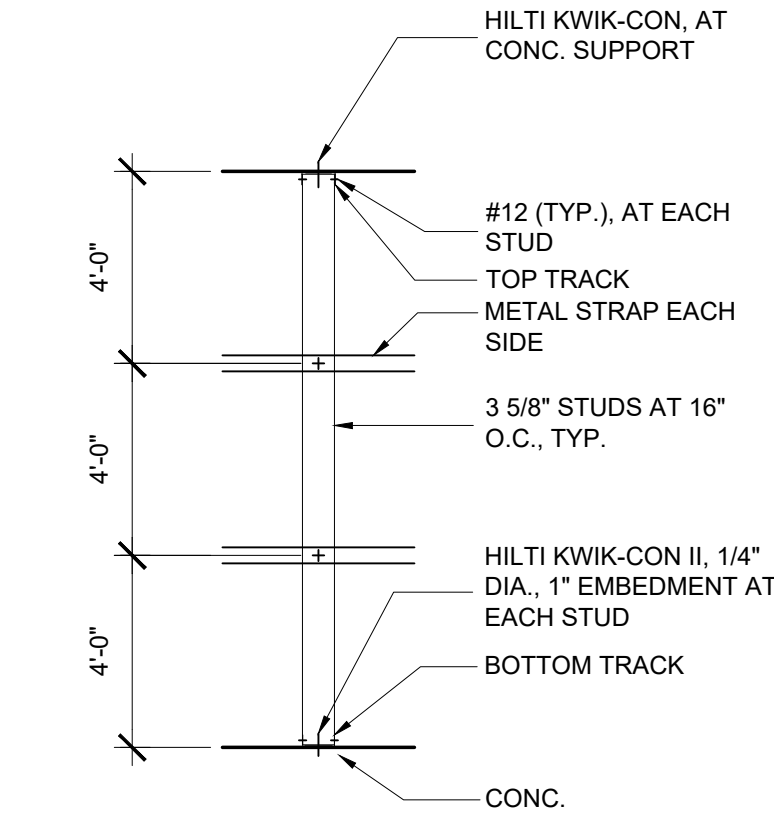
COLD-FORMED METAL HEADER SCHEDULE					
OPENING SIZE	SECTION	DESCRIPTION	GAUGE	JAMB STUDS	
				JACK	FULL-HT.
0' TO 3'		(2) - 6" (x1 5/8")	16 GA.	DOUBLE	DOUBLE
3' TO 8'		(2) - 8" (x1 5/8")	16 GA.	DOUBLE	DOUBLE

WALLBOARD LAYER		LENGTH OF SCREWS	SPACING OF SCREWS	
			STUDS @ EDGE OF BOARD	STUDS IN FIELD OF BOARD
SINGLE		1"	8	12
DOUBLE	BASE	1"	27	54
	FACE	1-5/8"	12	16

TABLE 1	
STUD WIDTH	CONNECTOR
3-5/8"	DIETRICH U543/X543
4"	DIETRICH U543/X543
6"	DIETRICH U545/X545

TABLE 2	
STUD WIDTH	CRC
3-1/2" - 6"	DIETRICH 150U50-54
2-1/2"	DIETRICH 075U50-54

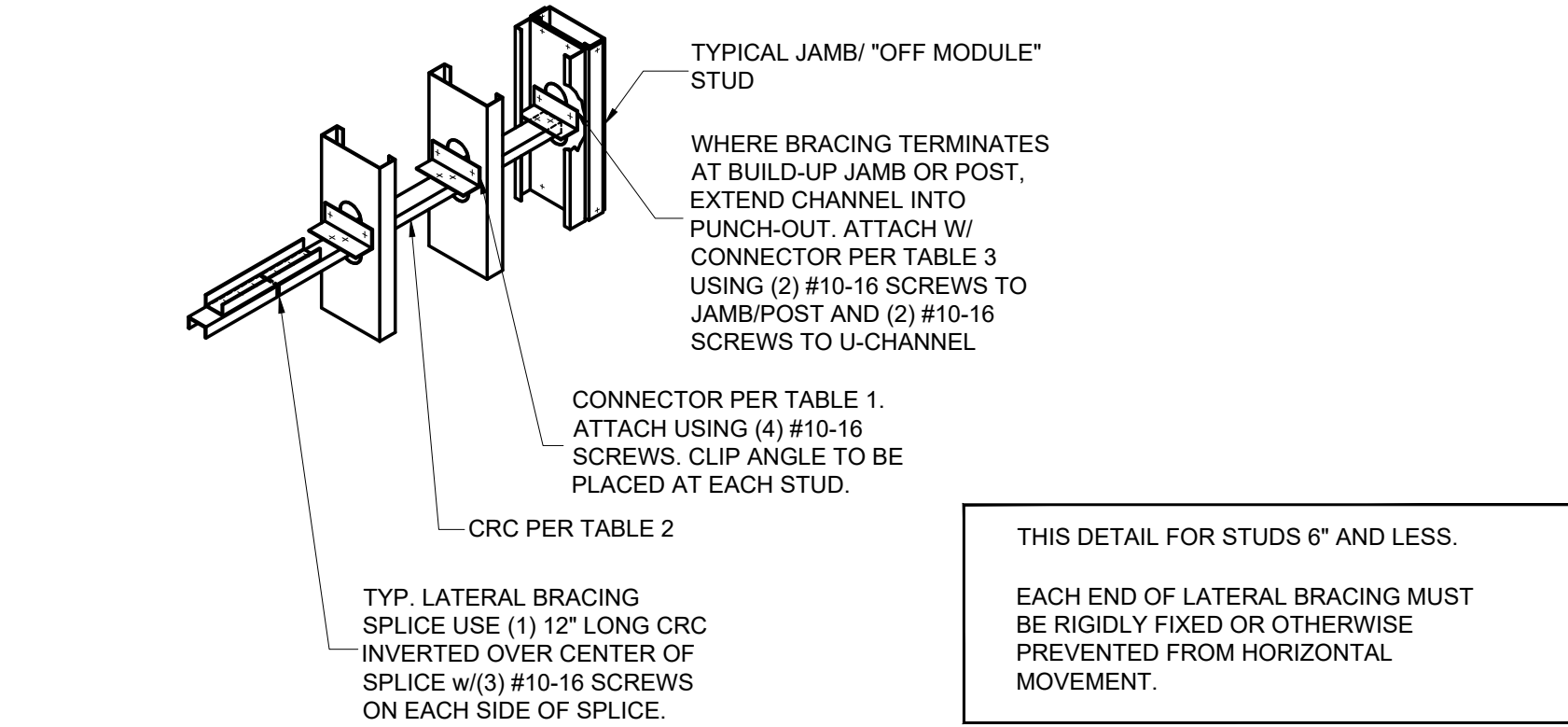
TABLE 3	
STUD WIDTH	CONNECTOR
3-5/8"	DIETRICH B543
4"	DIETRICH B543
6"	DIETRICH B545



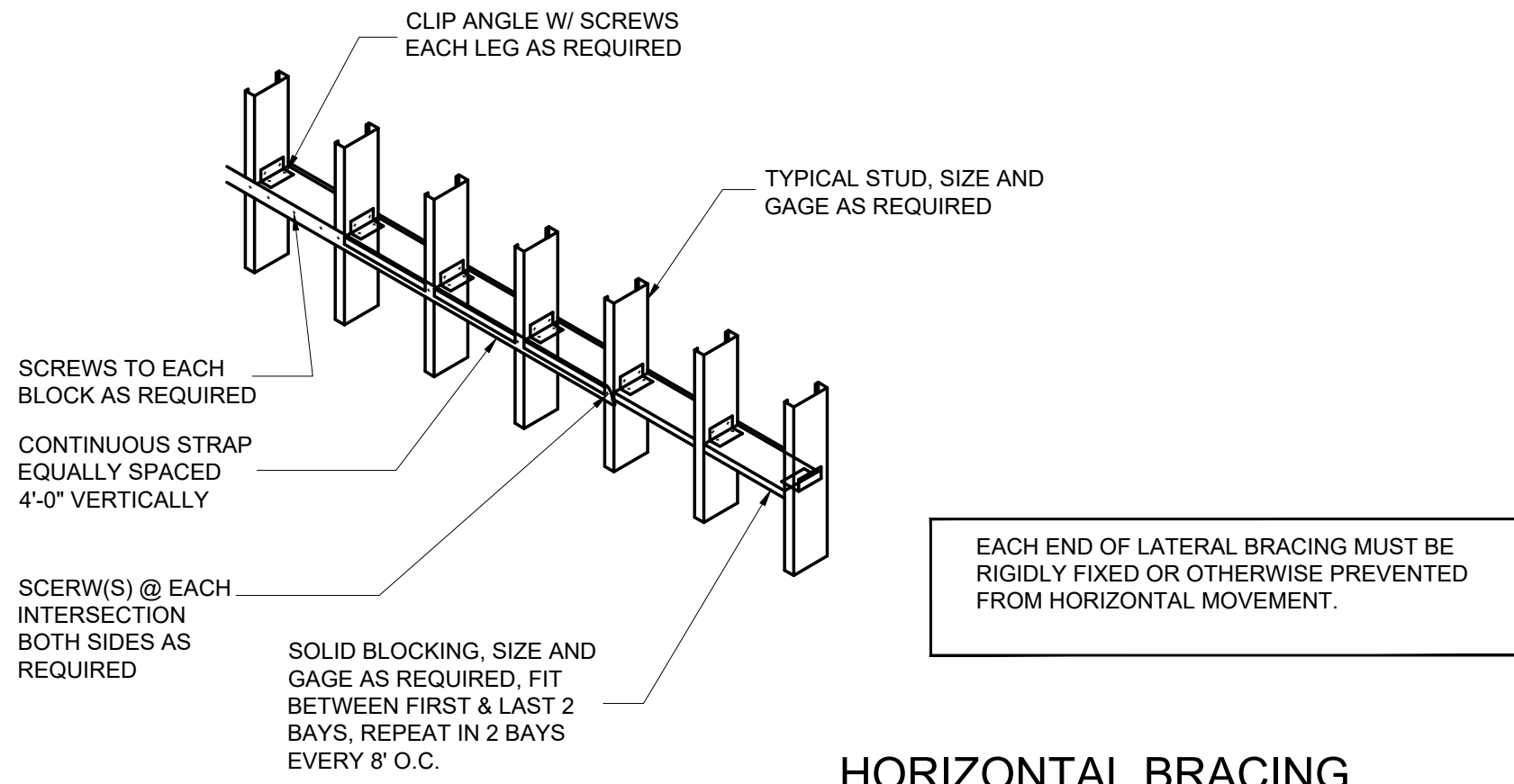
1
A-7.3 | A-7.4

PARTITION DETAILS

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



HORIZONTAL BRACING - ALTERNATE



HORIZONTAL BRACING



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ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
2705 LAKE VILLA DRIVE
METairie, LOUISIANA, 70002
PHONE (504) 885-0500
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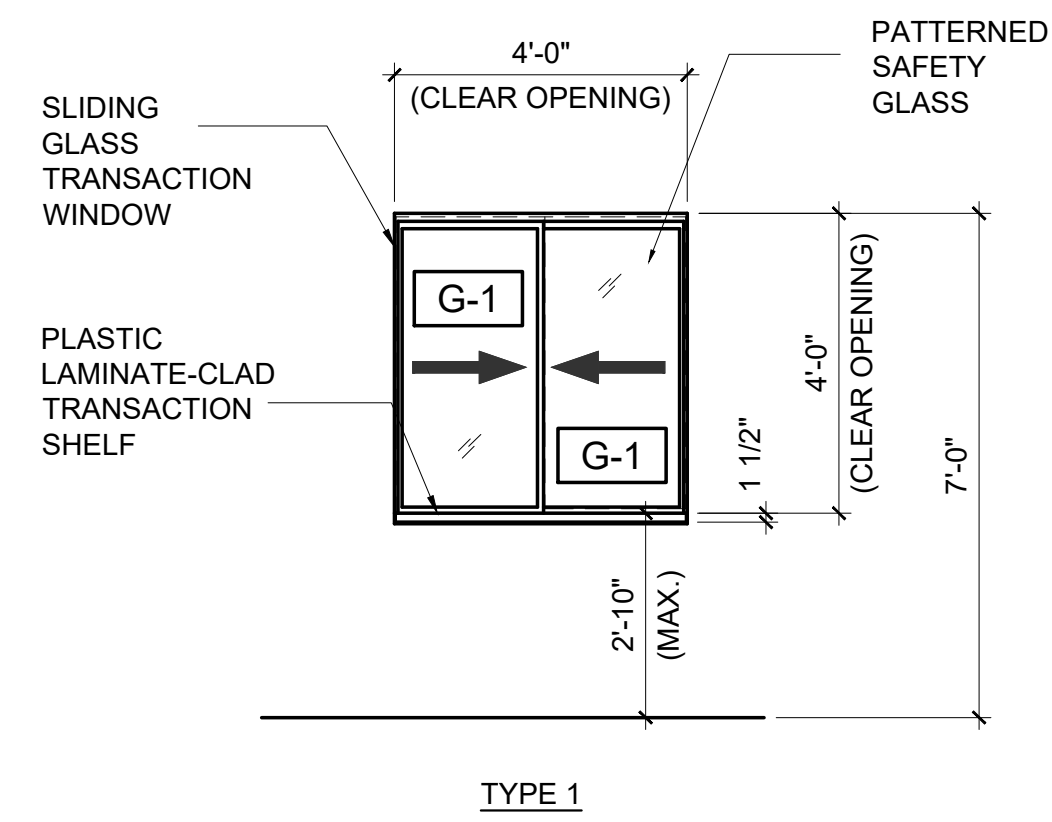
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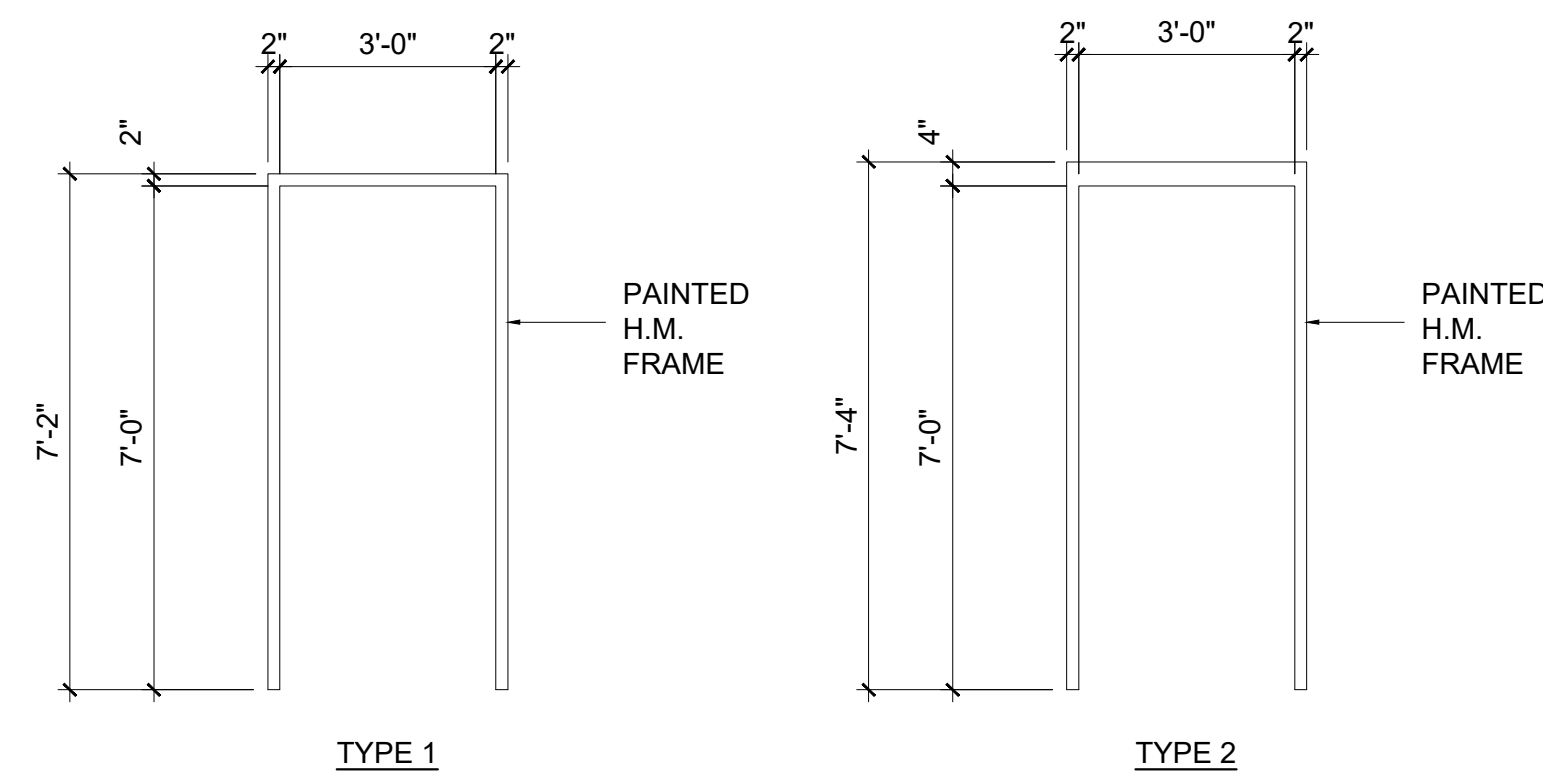
OPENING SCHEDULE

[illegible][illegible][illegible]

WINDOW TYPES



DOOR FRAME TYPES

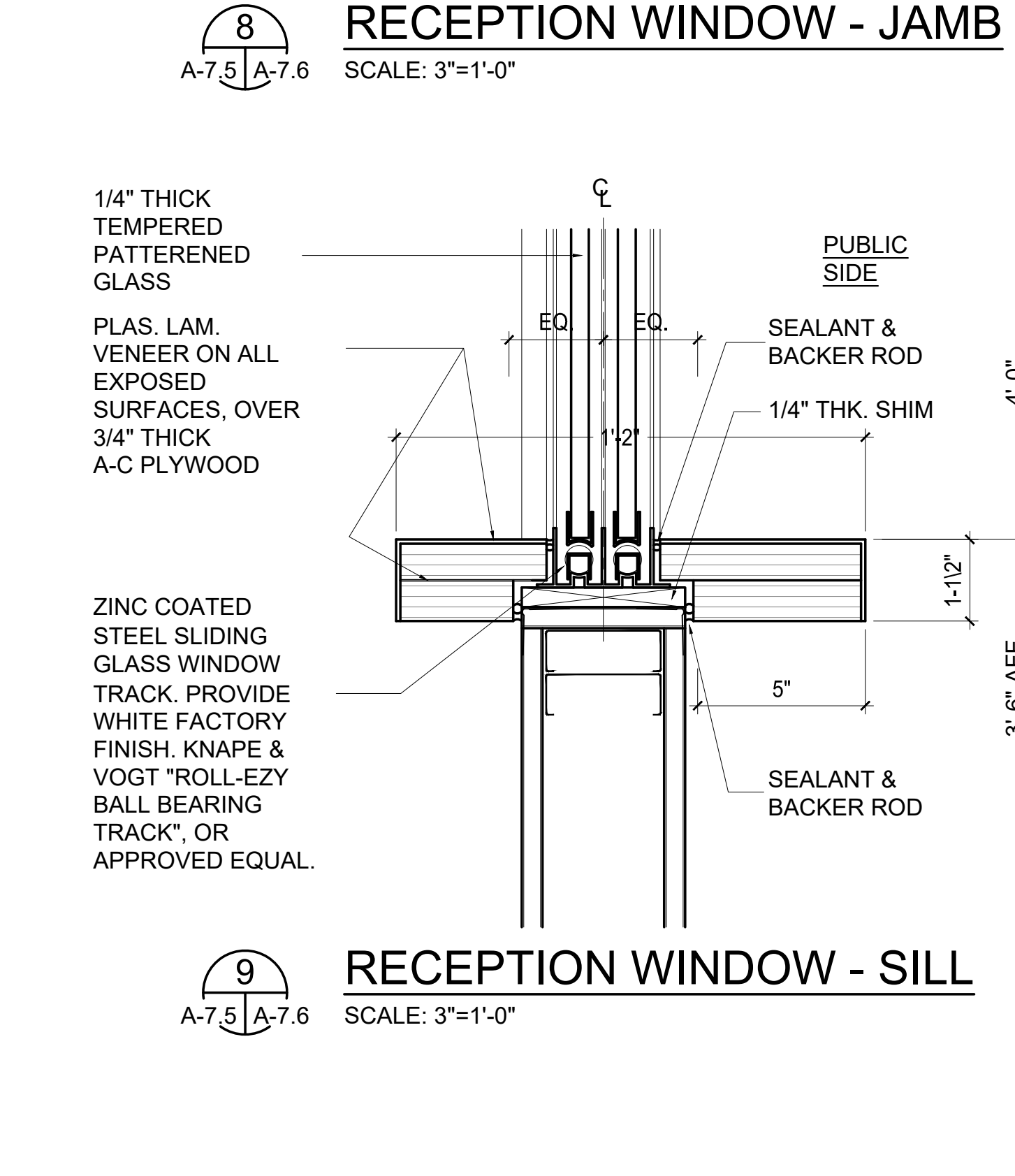
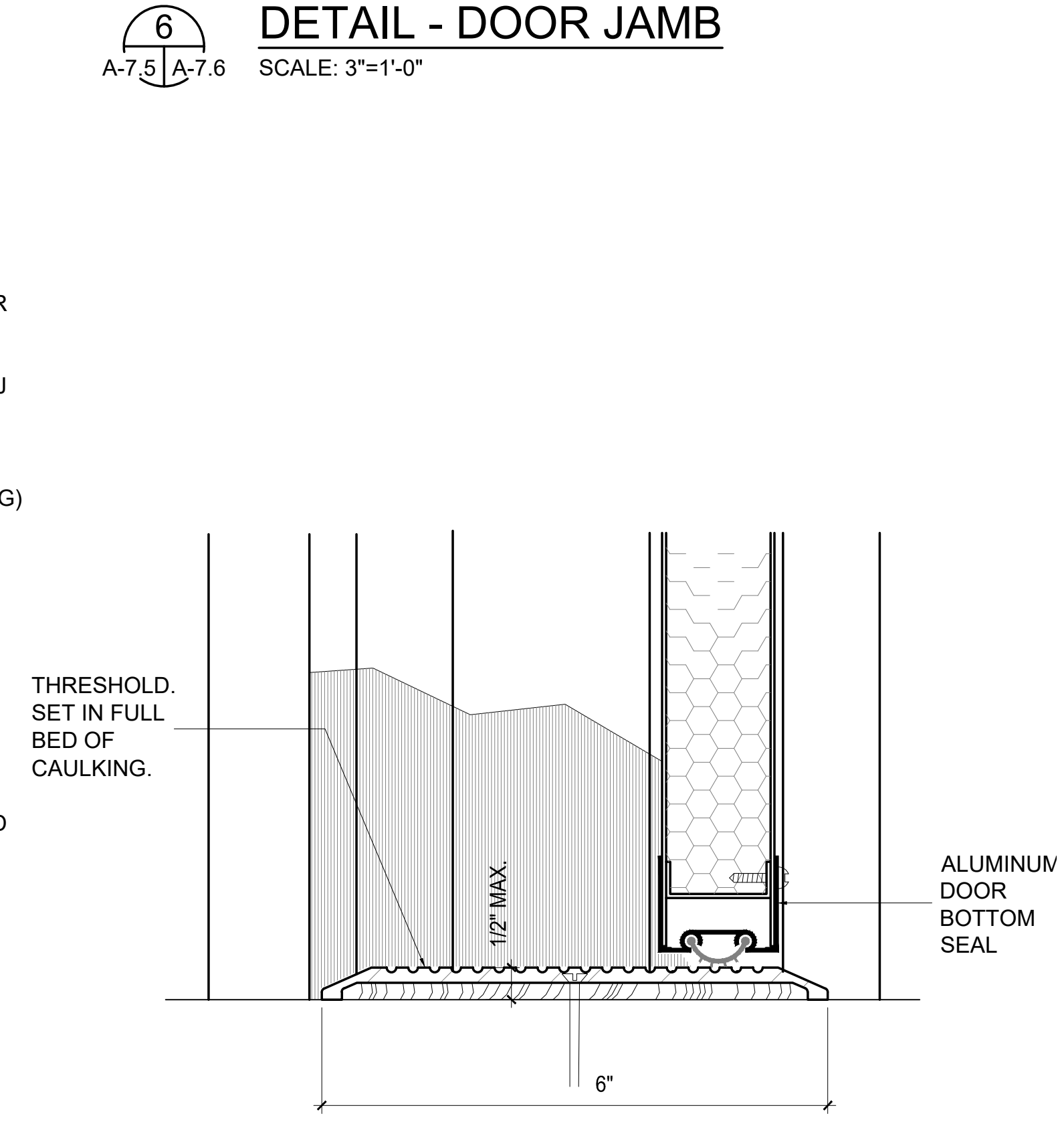
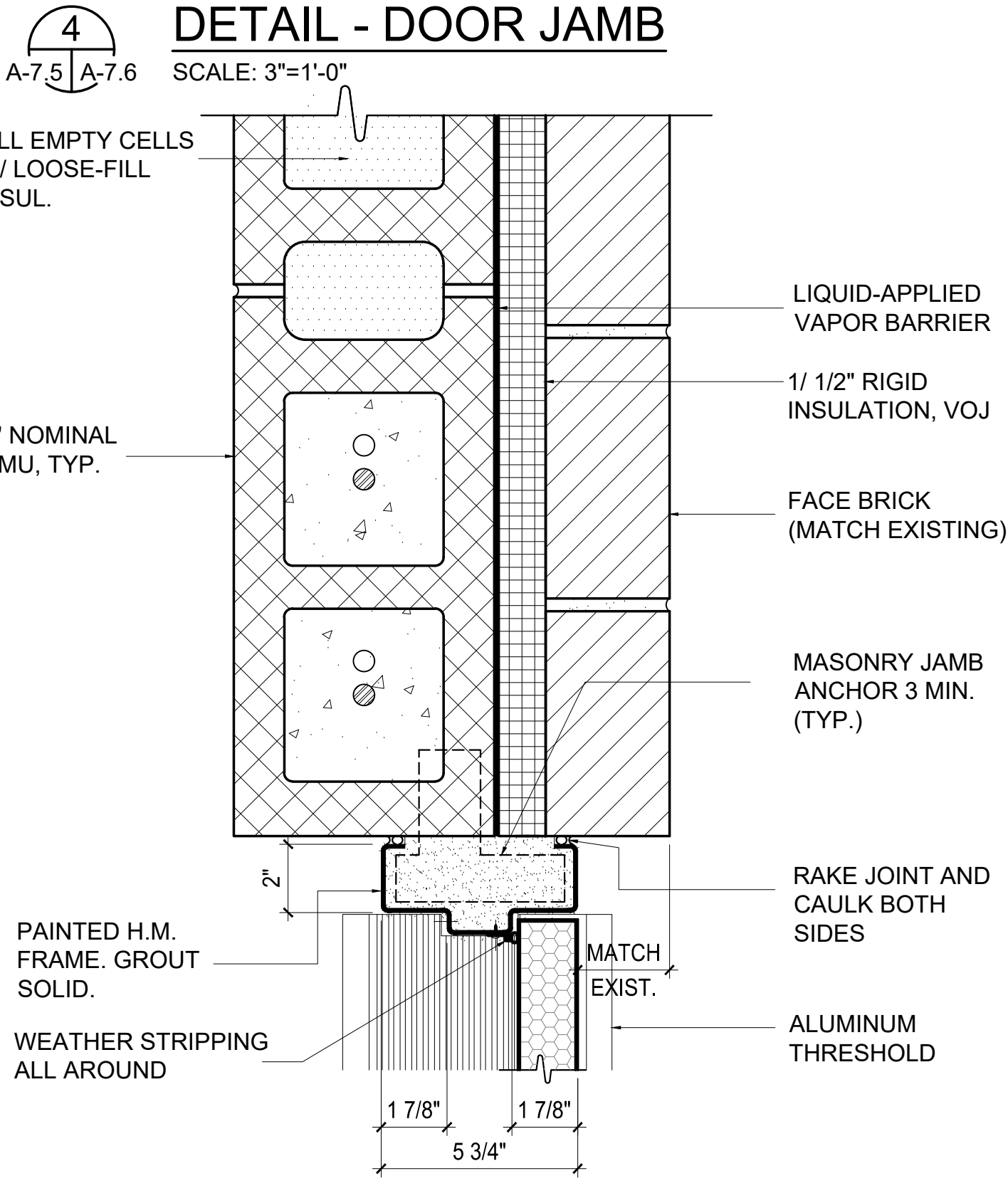
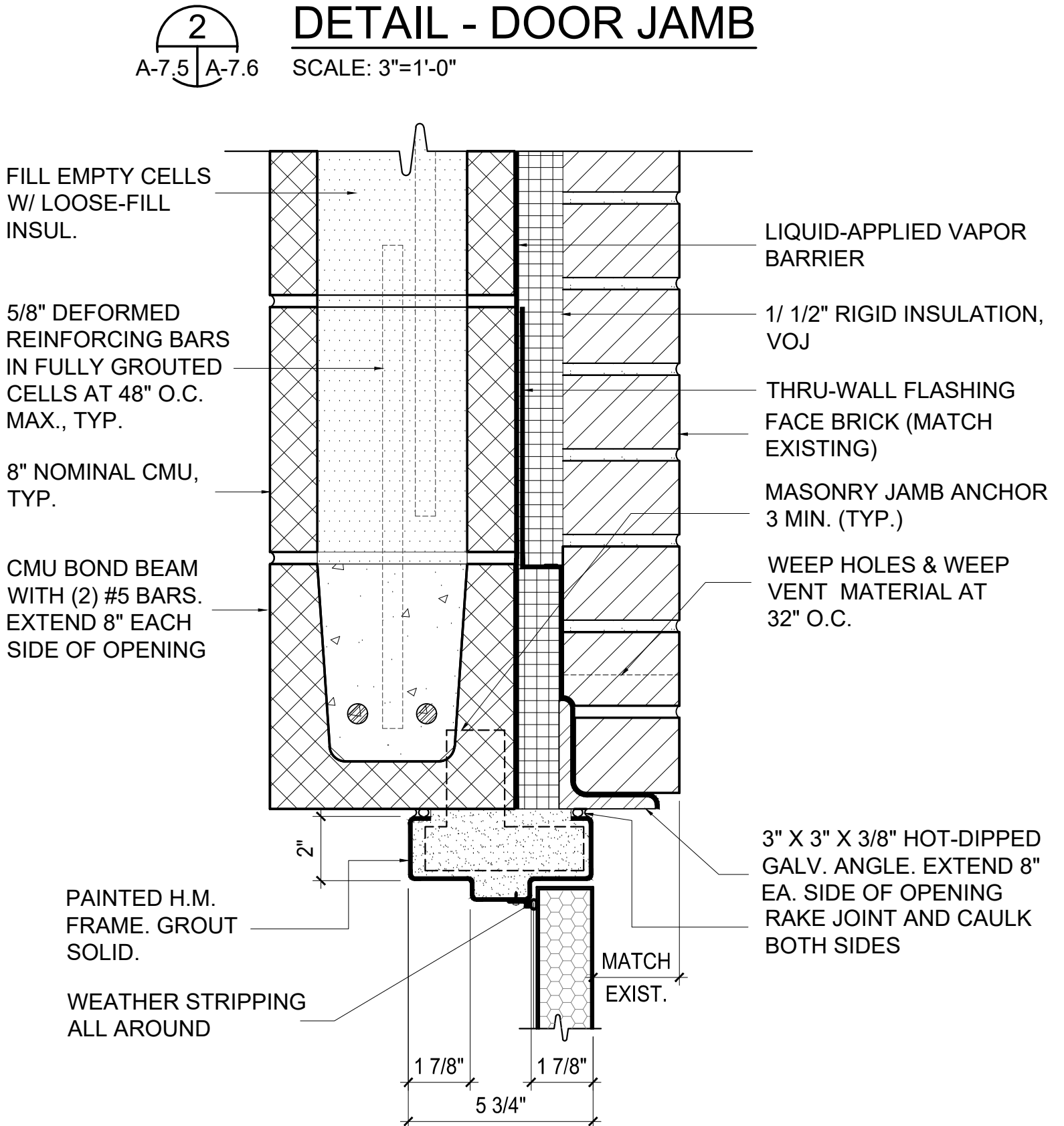
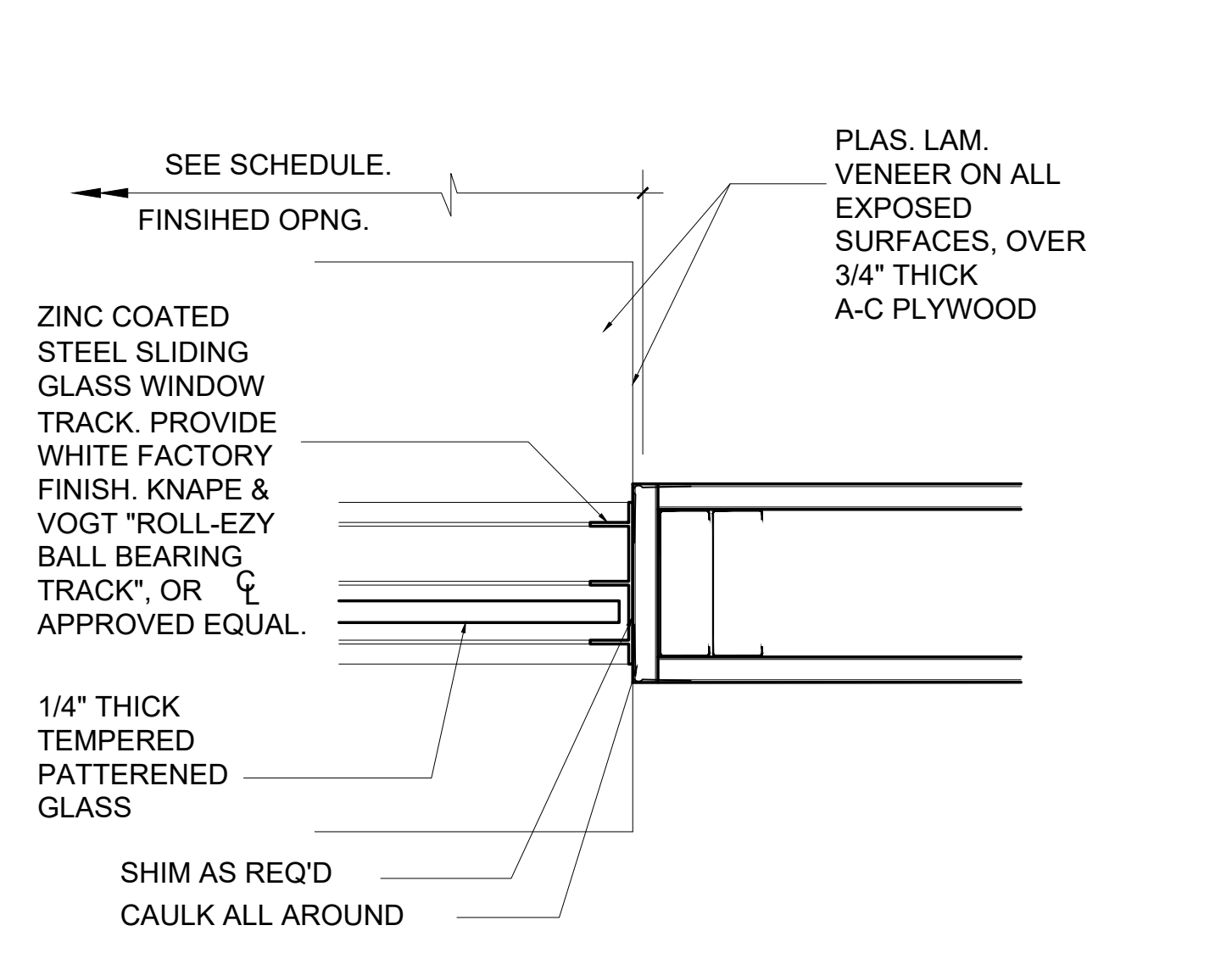
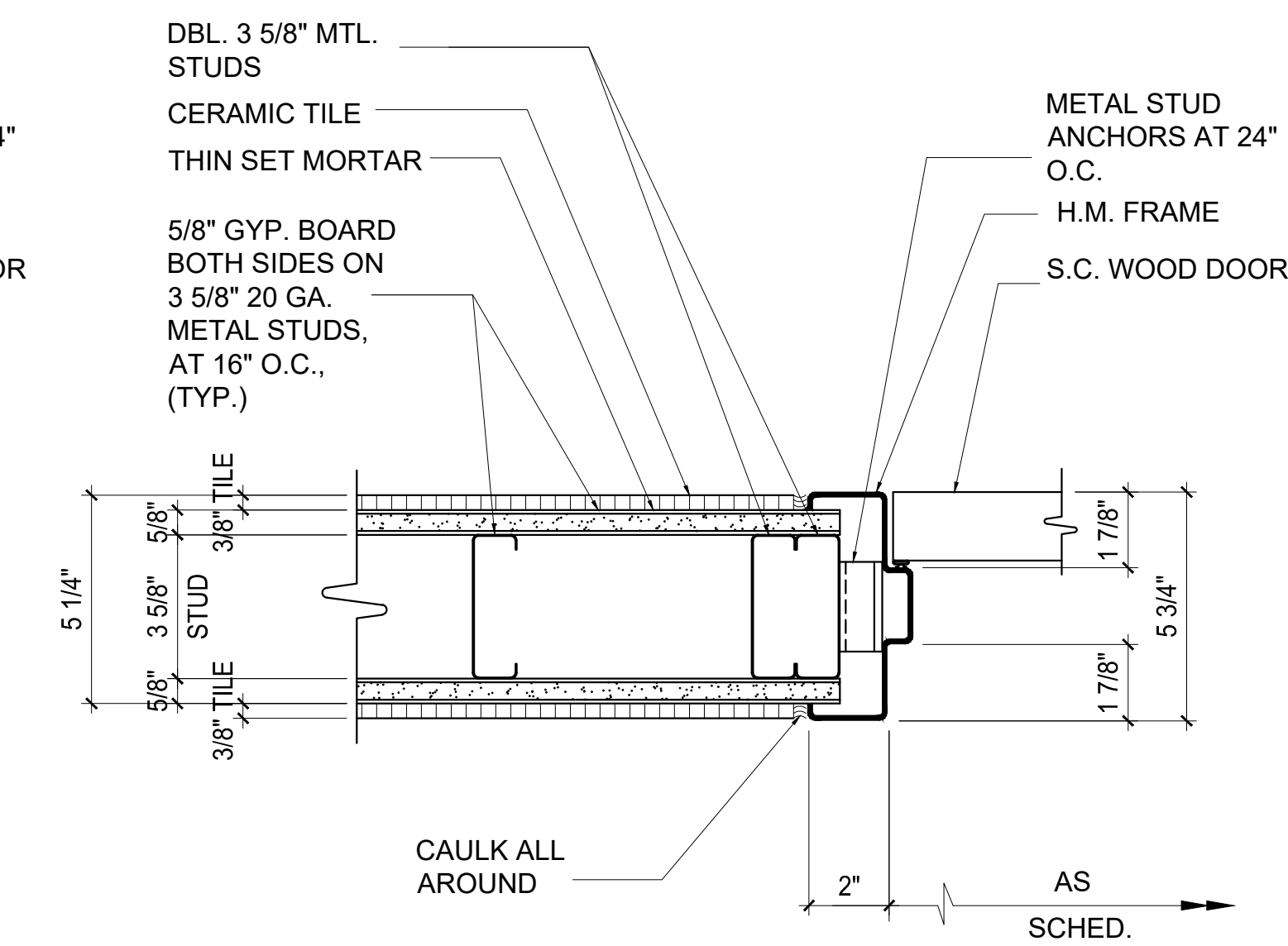
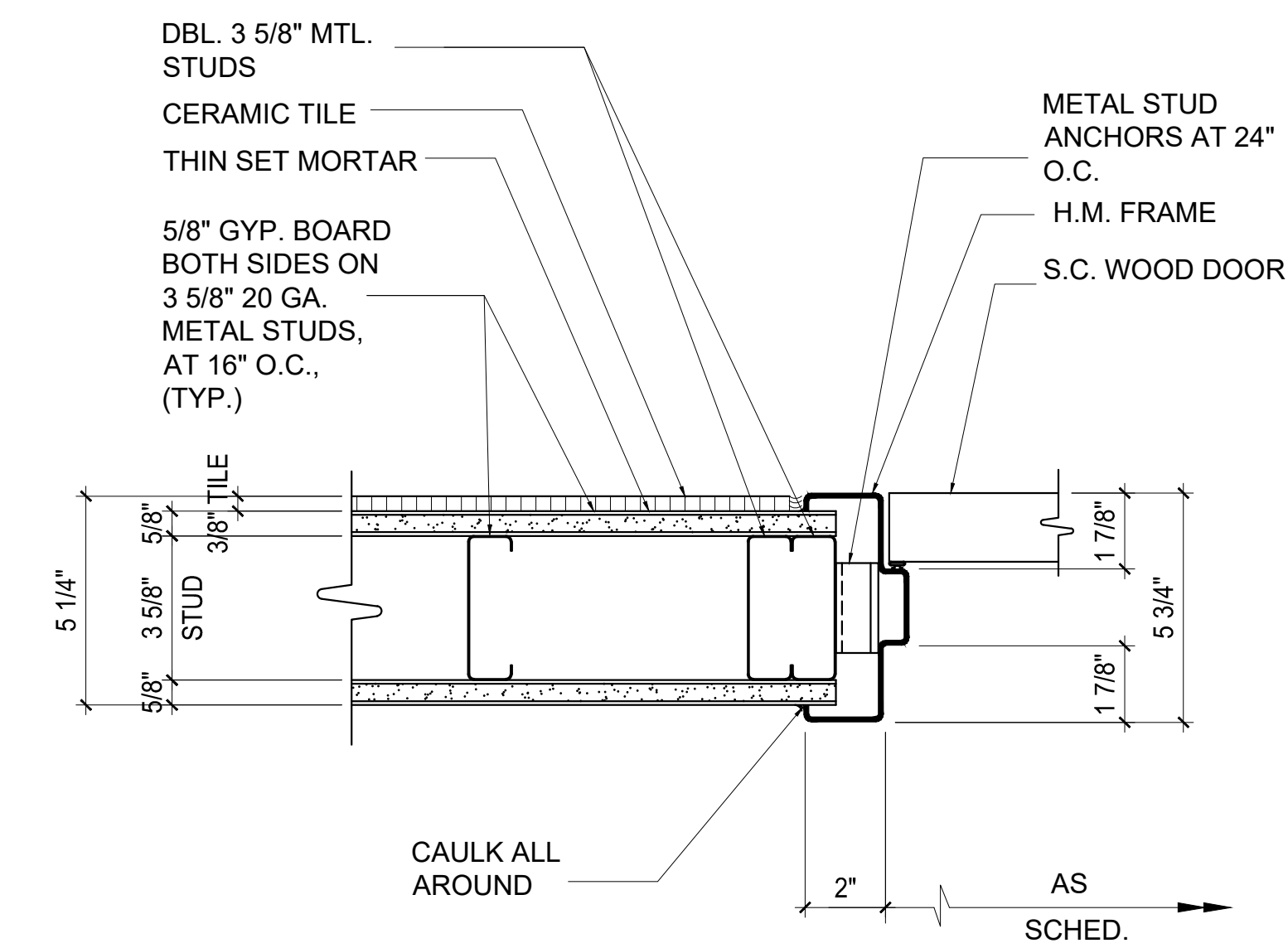
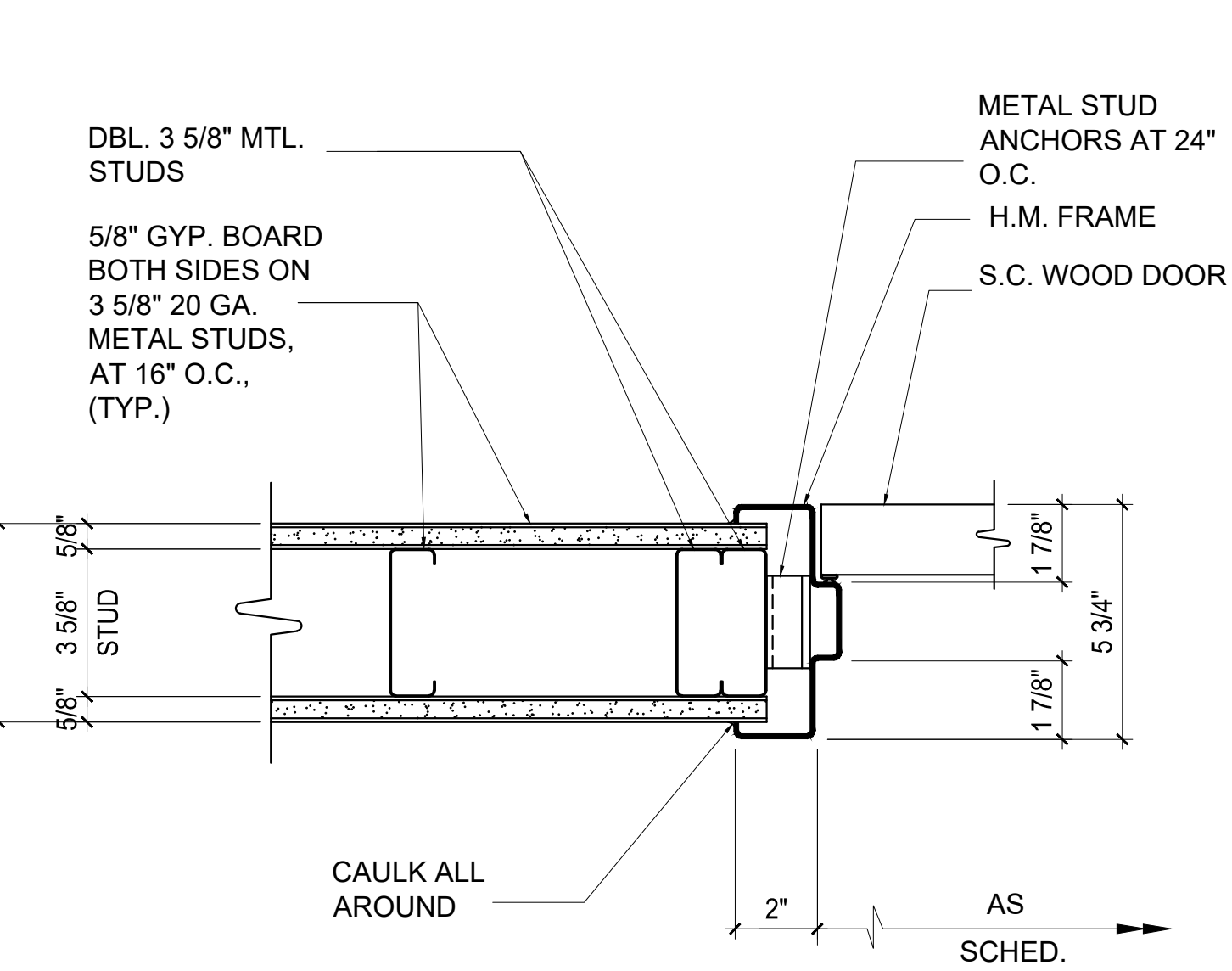
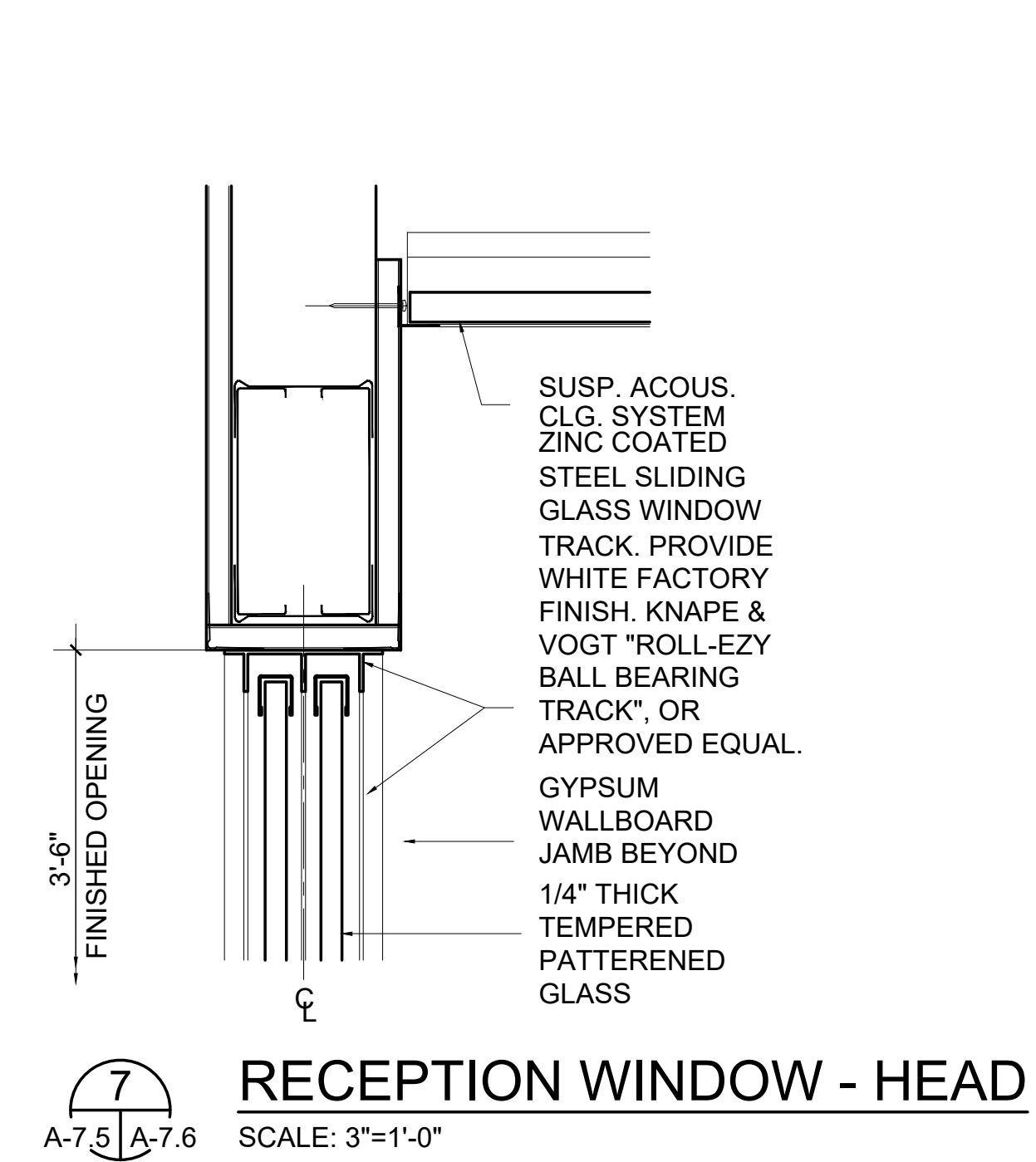
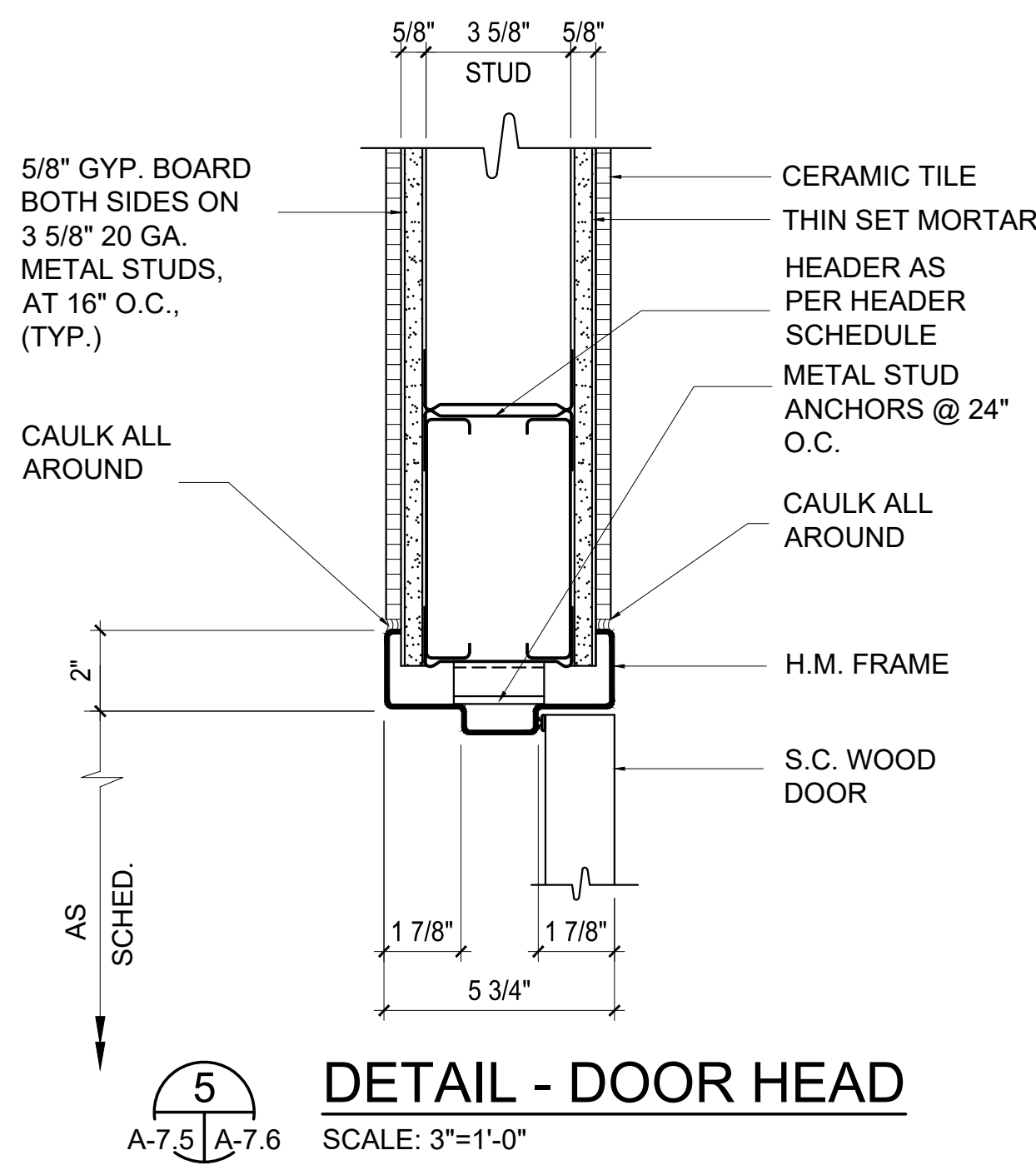
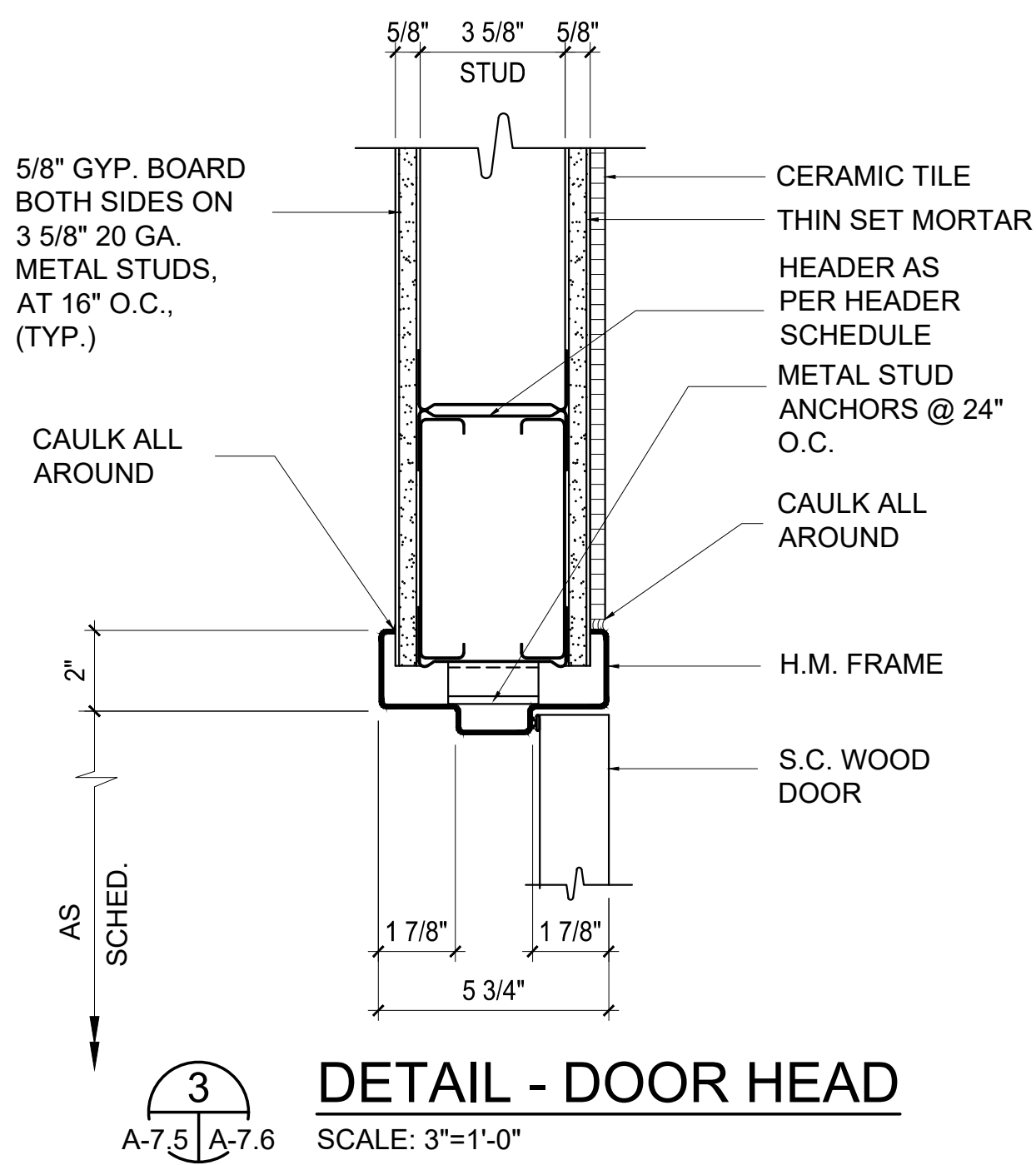
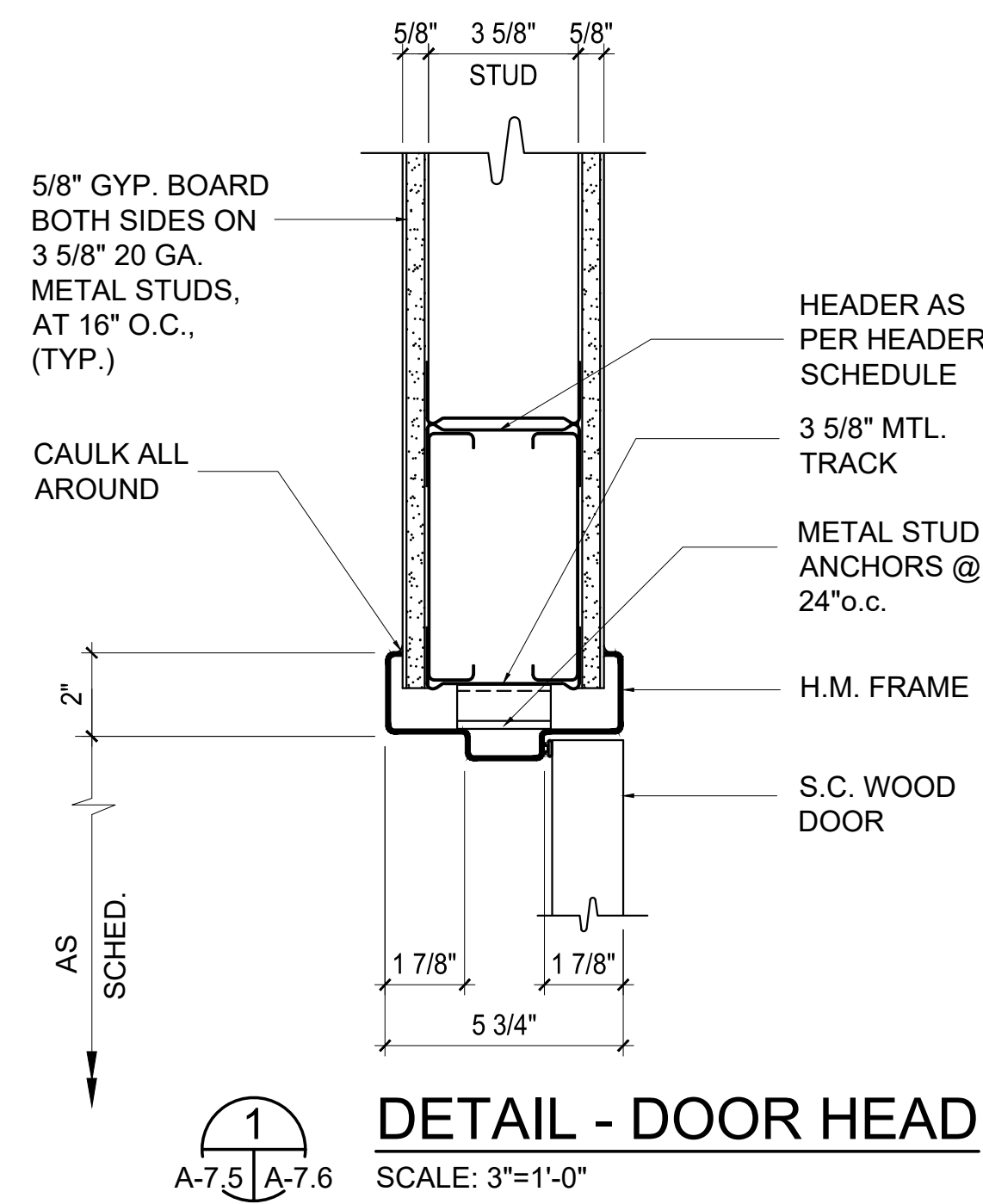


Technical drawing of a sliding glass transaction window. The drawing shows a side elevation of the window assembly. Key dimensions and callouts include:

- Top Dimension:** 6'-6 3/4" (ROUGH OPENING)
- Right Side Dimension:** 4'-15 1/16" (ROUGH OPENING)
- Bottom Right Dimension:** 1'-0 1/8" (MAX.)
- Bottom Left Dimension:** 1'-1 1/2"
- Callouts:**
 - 8 (top left corner)
 - 7 (top right corner)
 - 9 (bottom center)
 - A-7.4, A-7.6 (corner and edge callouts for callouts 8, 7, and 9)
 - G-1 (glass panel label, appearing on both the fixed and sliding panels)
- Text:**
 - PLASTIC LAMINATE-CLAD TRANSACTION SHELF (pointing to the bottom left corner)
 - SLIDING GLASS TRANSACTION WINDOW (centered text with arrows indicating sliding direction)

Diagram illustrating the dimensions and components of a Type L1 Louver:

- AS SCHED.**: Dimension indicating the standard height of the louver.
- AS SCHED.**: Dimension indicating the standard width of the louver.
- PRE-FINISHED ALUMINUM LOUVER**: Label pointing to the louver assembly.
- TYPE L1**: Label identifying the louver type.





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Warehouse Tornado Repairs
 1801 Westbank Expressway, Harvey, LA 70058

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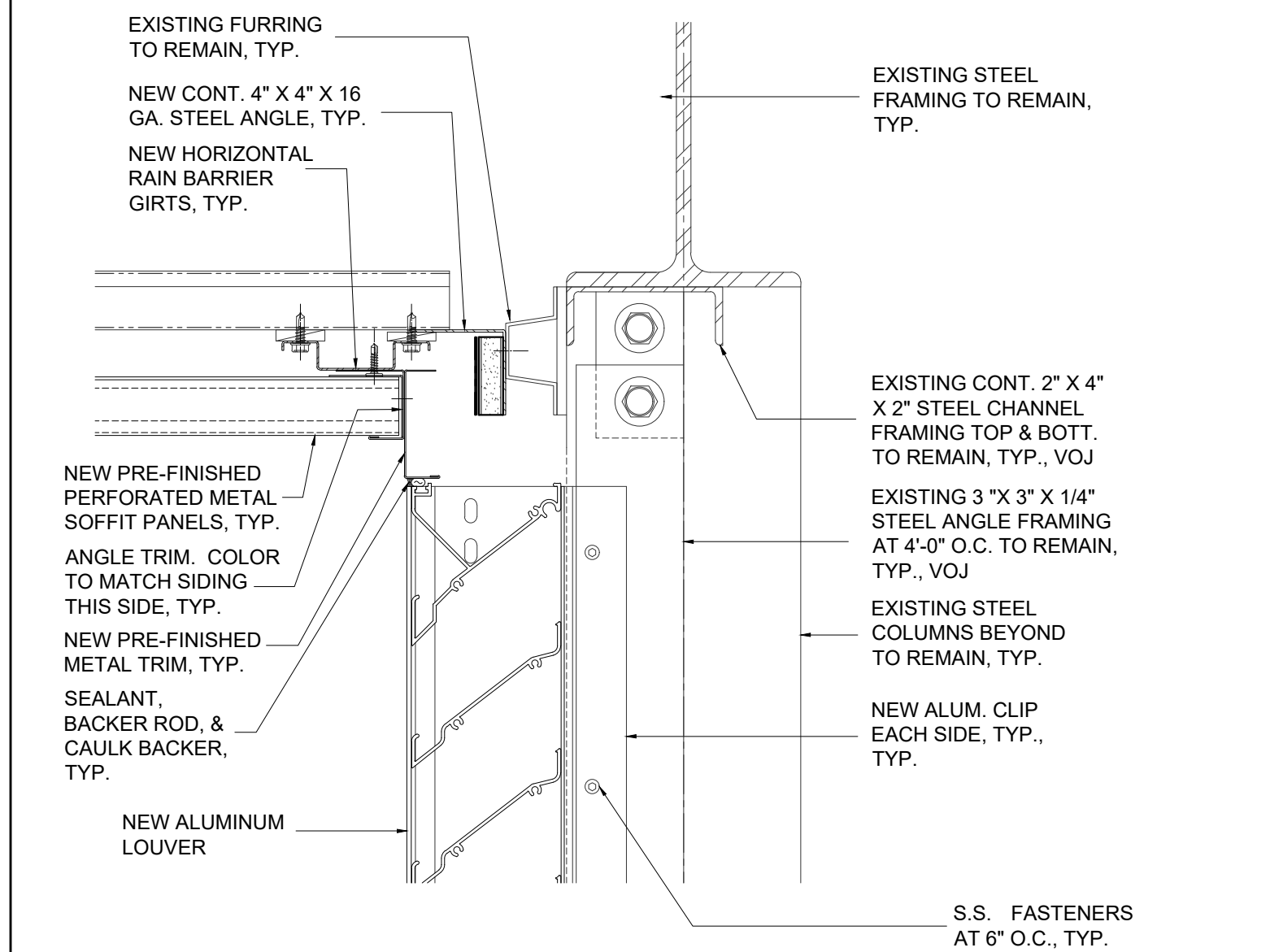
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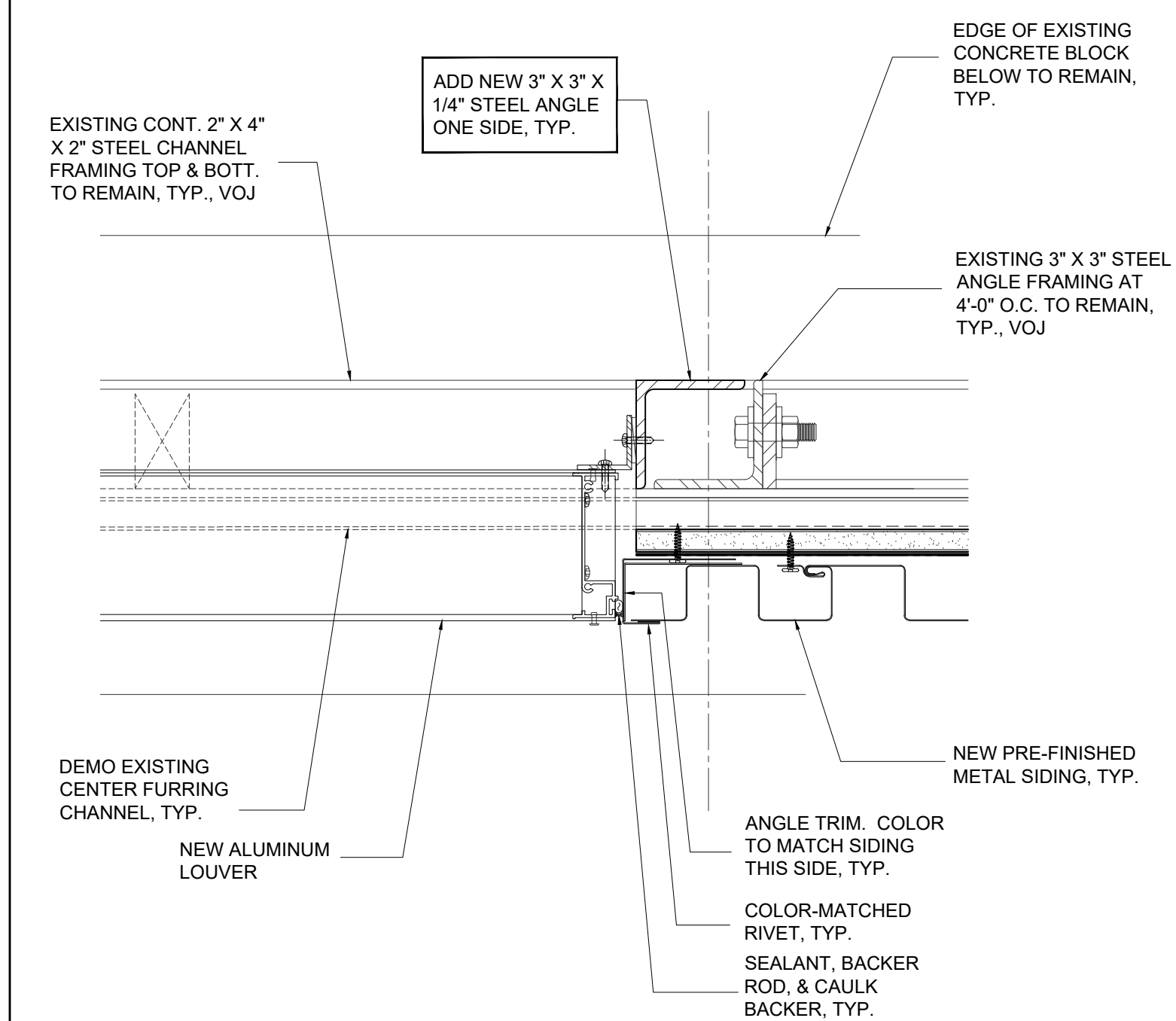
DOOR DETAILS

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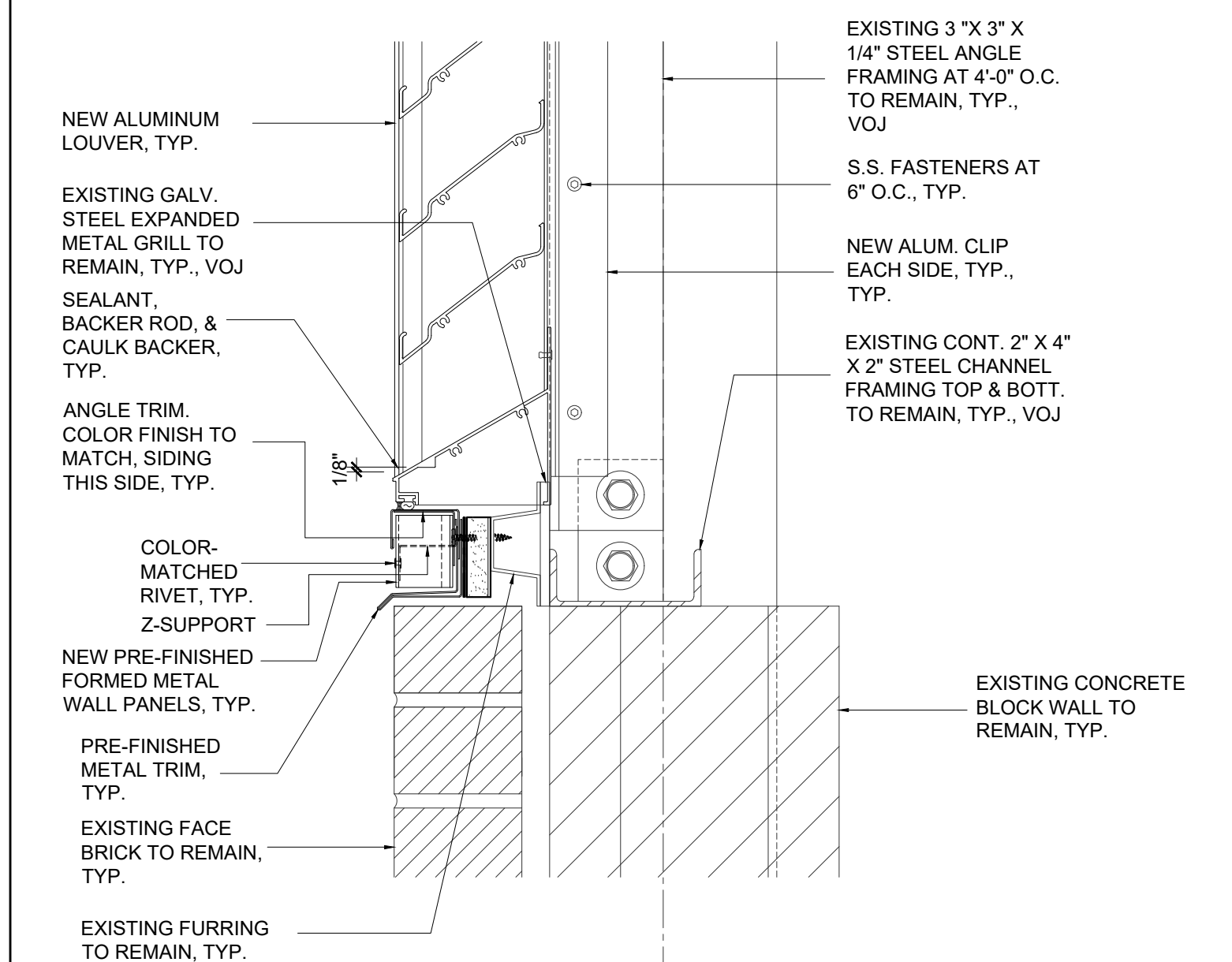
A-7.6
Sheet 36 of 42



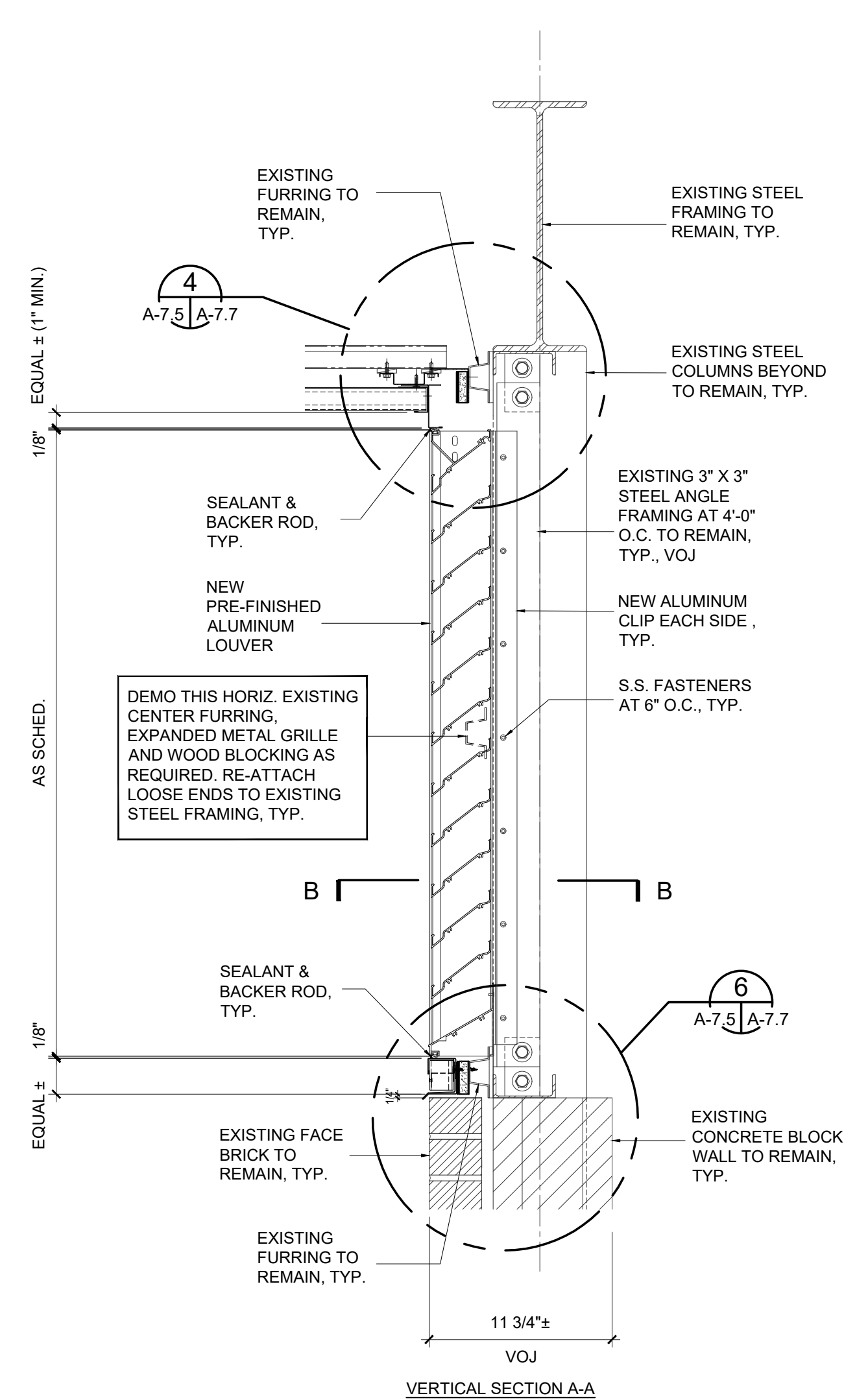
4 NEW LOUVER - HEAD
A-7.5 | A-7.7 NOT TO SCALE



5 NEW LOUVER - JAMB
A-7.5 | A-7.7 NOT TO SCALE

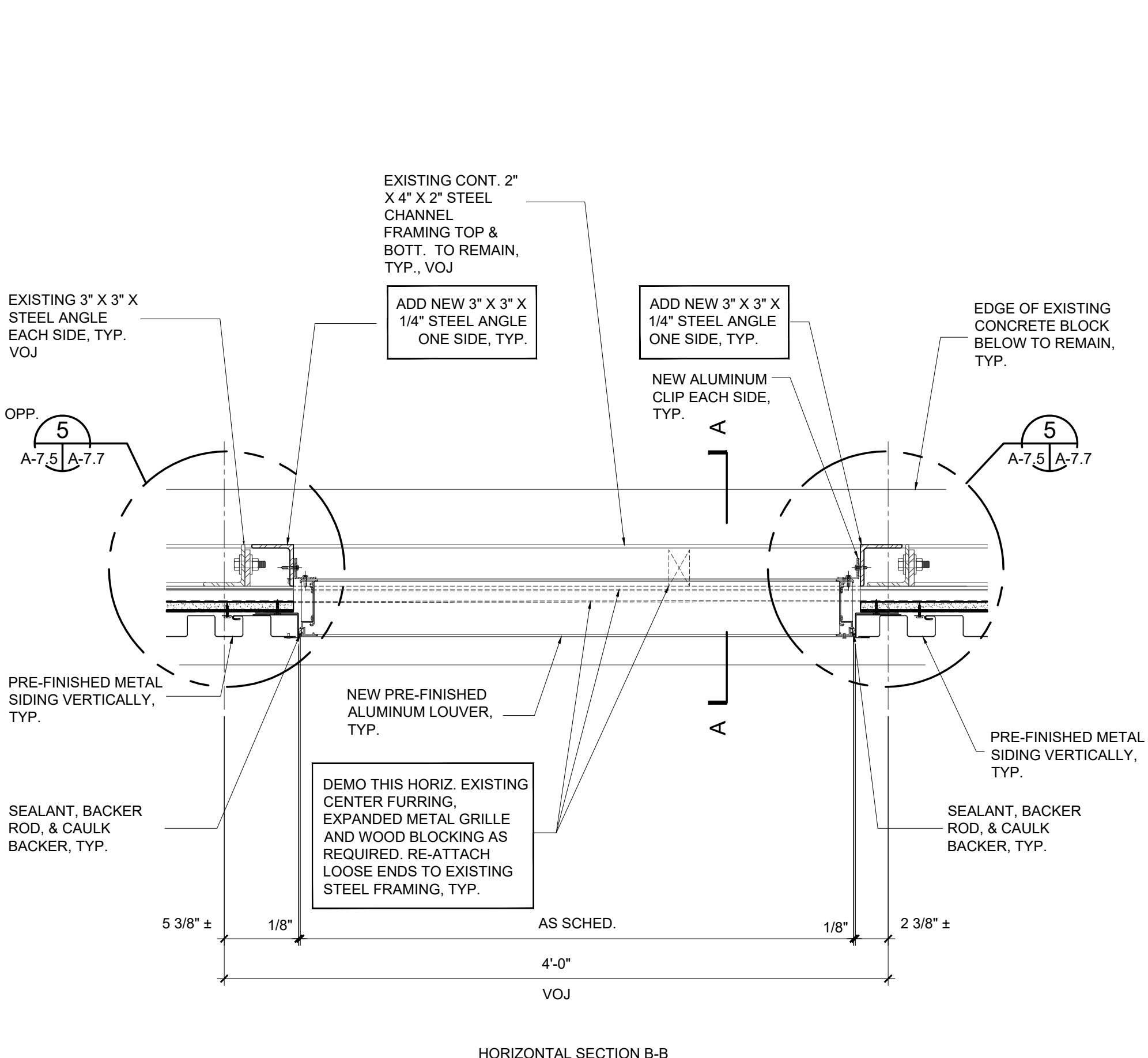


6 NEW LOUVER - SILL
A-7.5 | A-7.7 NOT TO SCALE

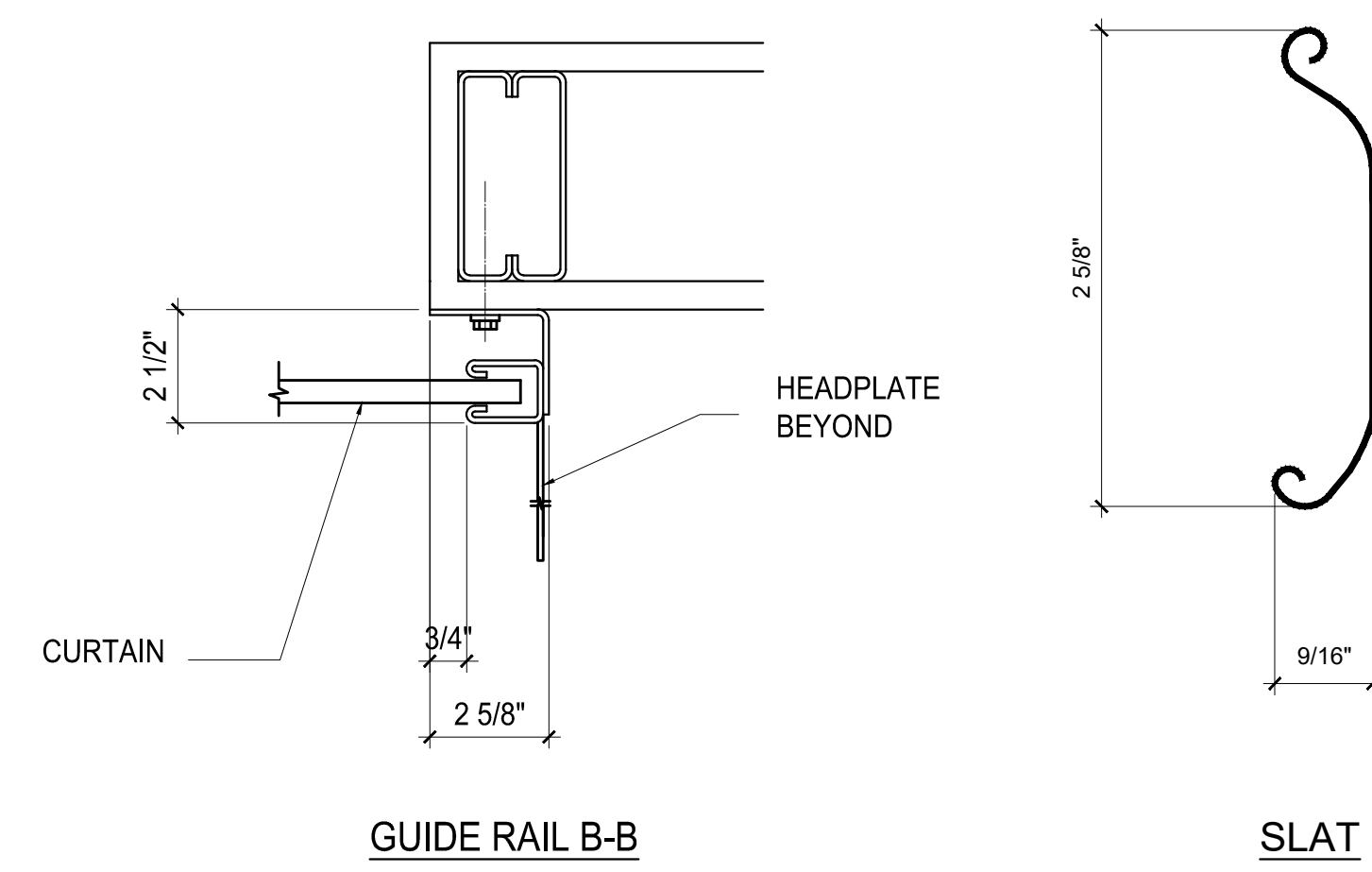
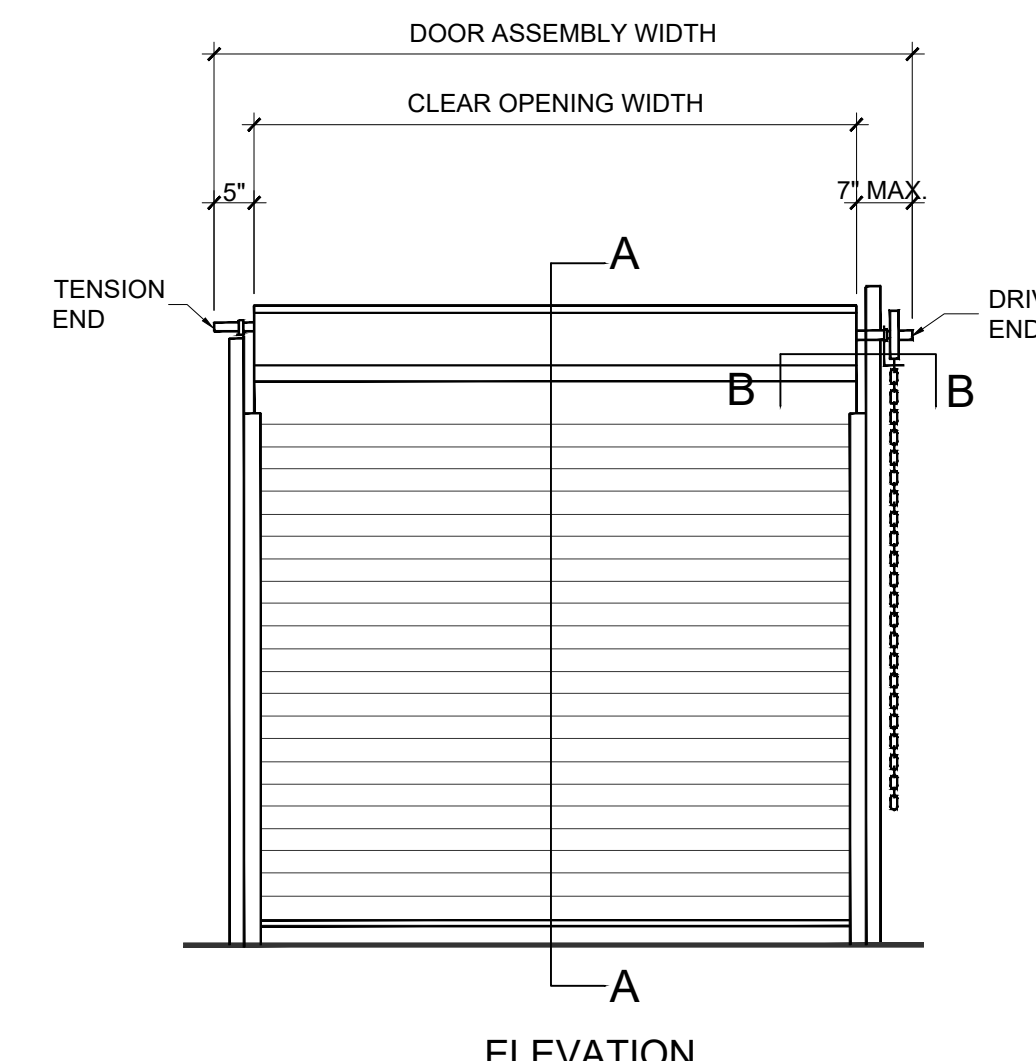


2 VERT. SECTION - LOUVERS
A-4.2 | A-7.7 SCALE: 1 1/2"=1'-0"

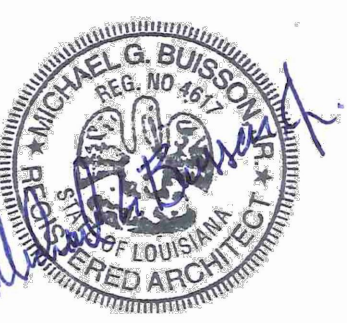
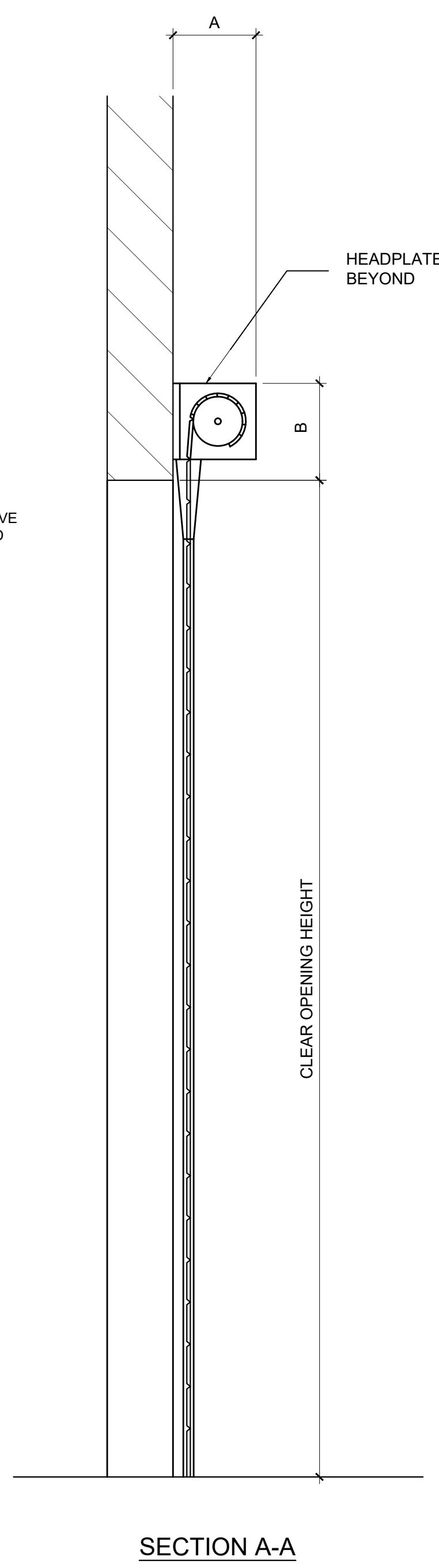
WIRE-BRUSH, AND PRIME ALL EXPOSED STEEL FRAMING WITH RUST DISSOLVING PAINT. FINISH PAINT ALL EXPOSED STEEL FRAMING. ALL EXISTING WOOD BLOCKING MAY REMAIN.



3 HORIZ. SECTION - LOUVERS
A-4.2 | A-7.7 SCALE: 1 1/2"=1'-0"



1 NEW OVERHEAD COILING DOOR DETAILS
A-7.5 | A-7.7 NOT TO SCALE



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PROGRAM & PROJECT MANAGERS
2750 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
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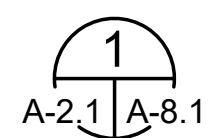
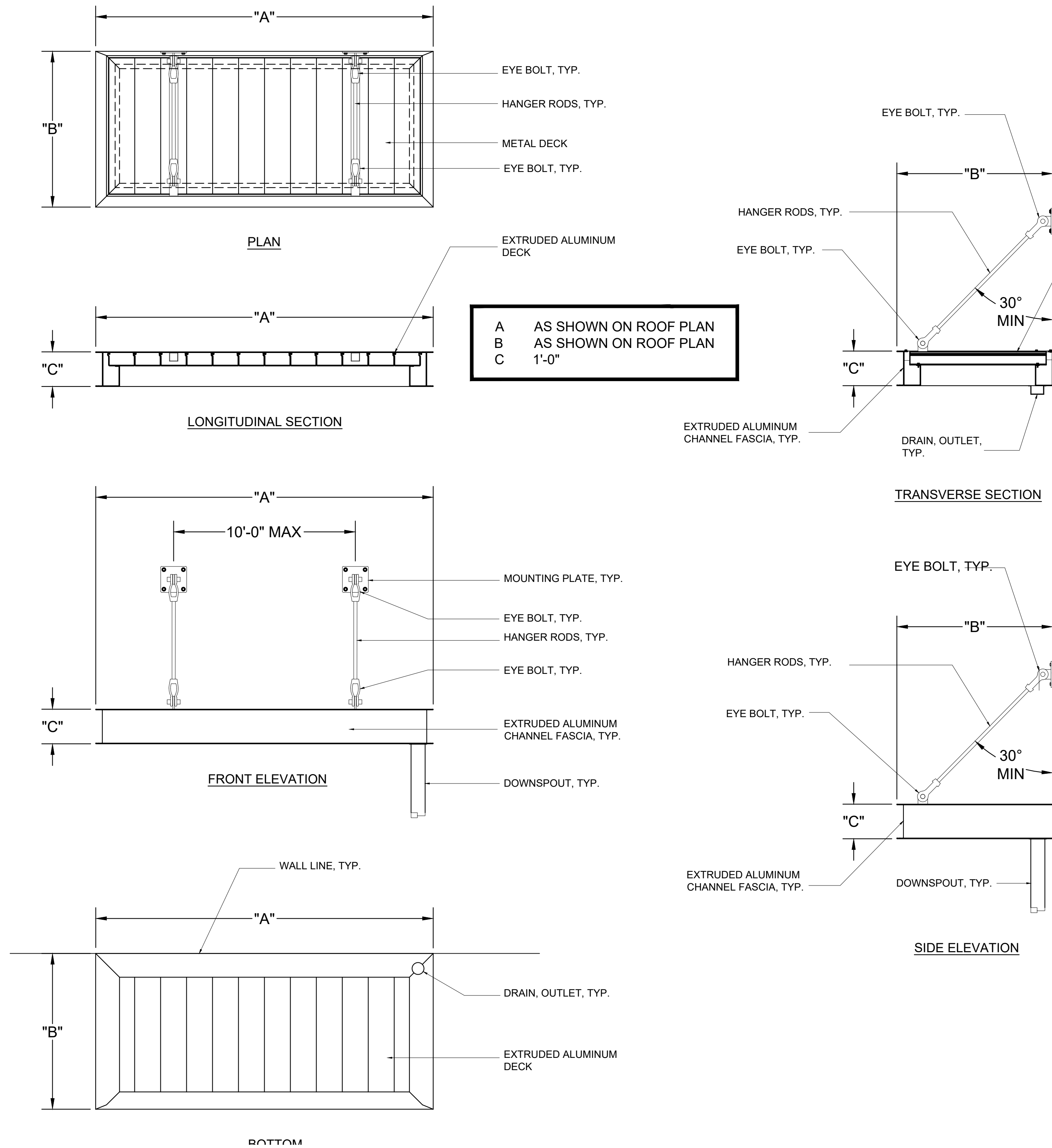
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OVERHEAD COILING DOOR DETAILS

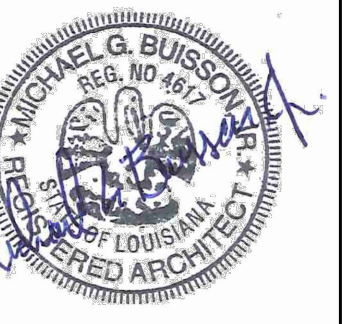
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A-7.7



CANOPY DETAILS

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



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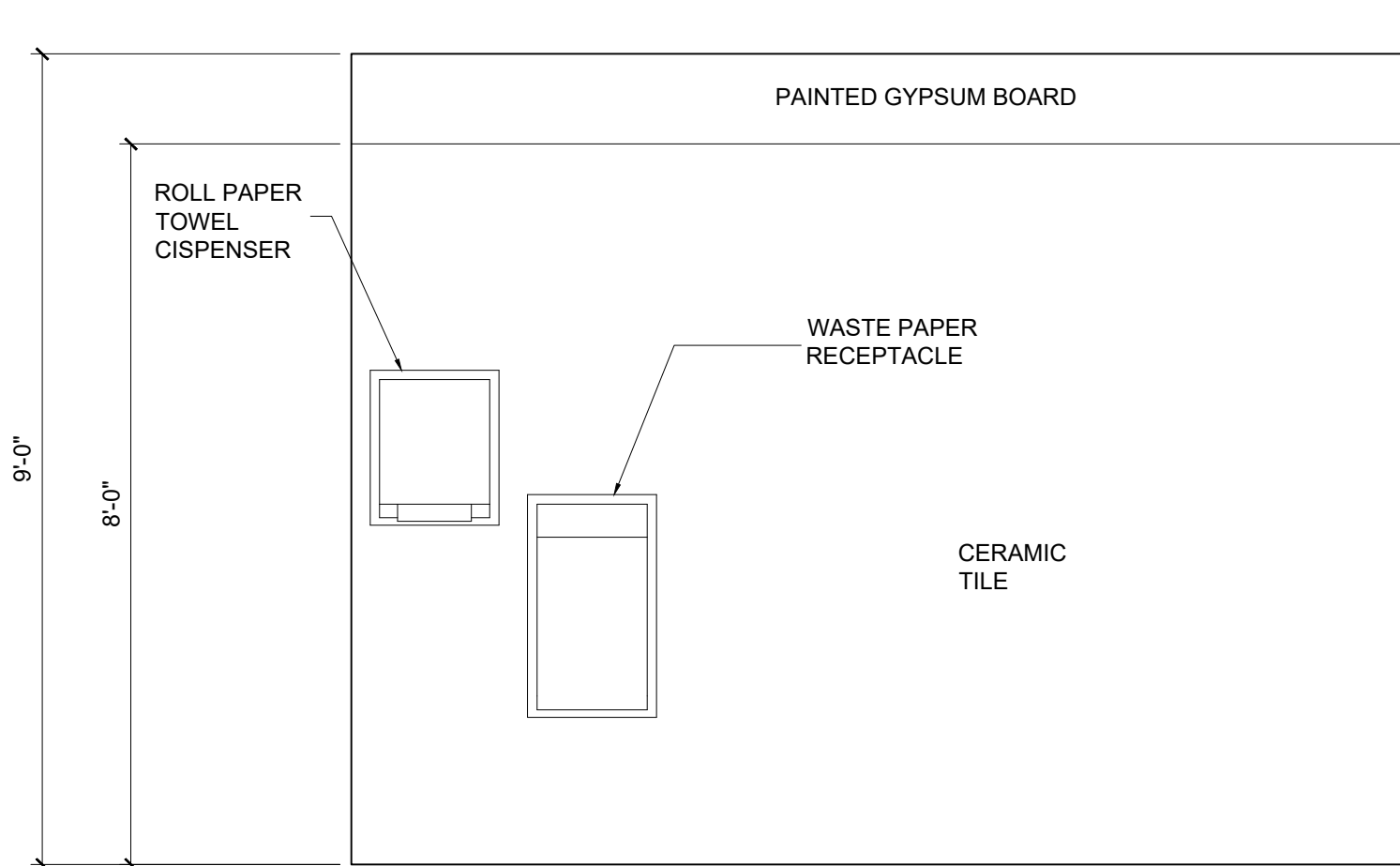
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**PRE-FABRICATED
CANOPY
DETAILS**

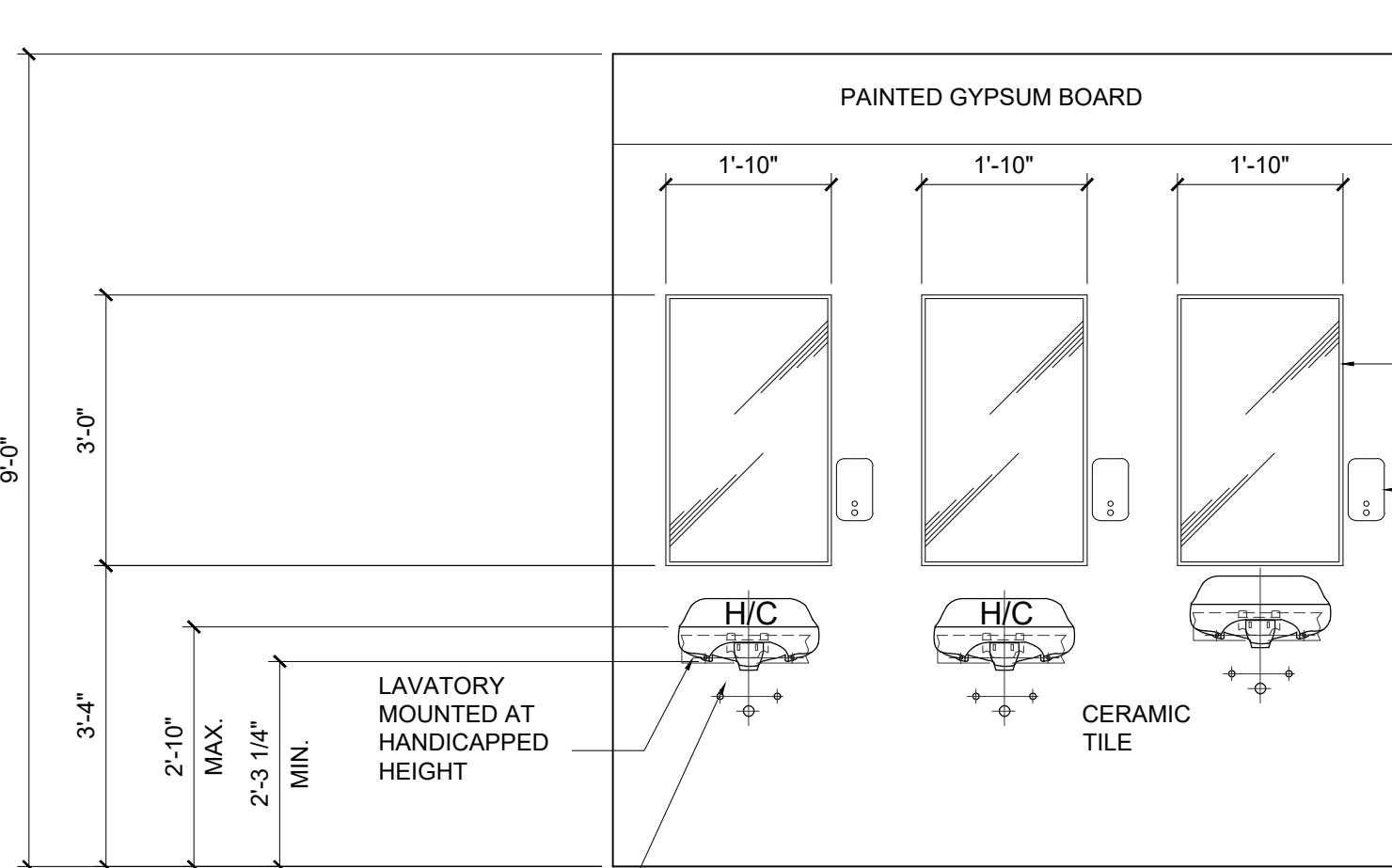
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A-8.1

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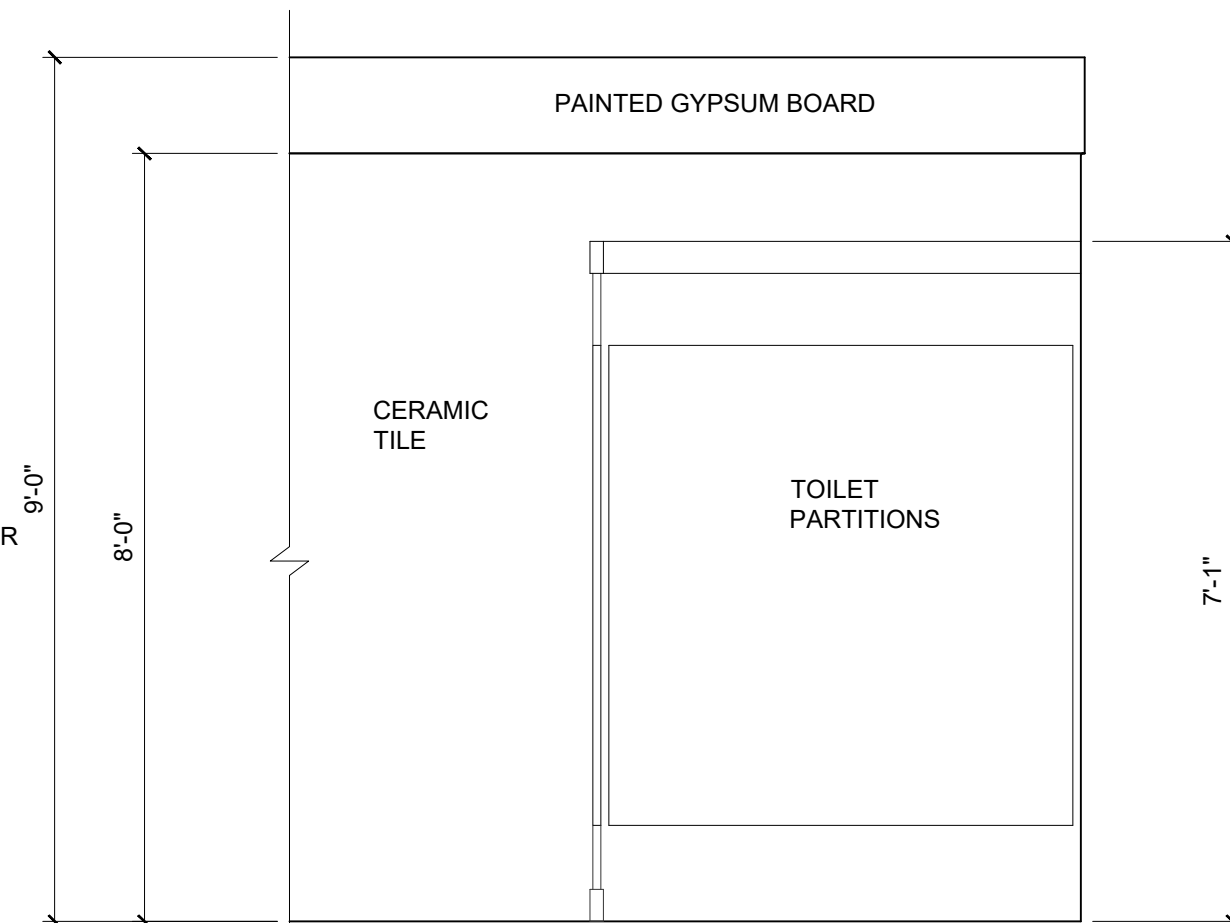


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A-11.1 | A-12.1
WOMEN'S 101
SCALE: 1/2"=1'-0"

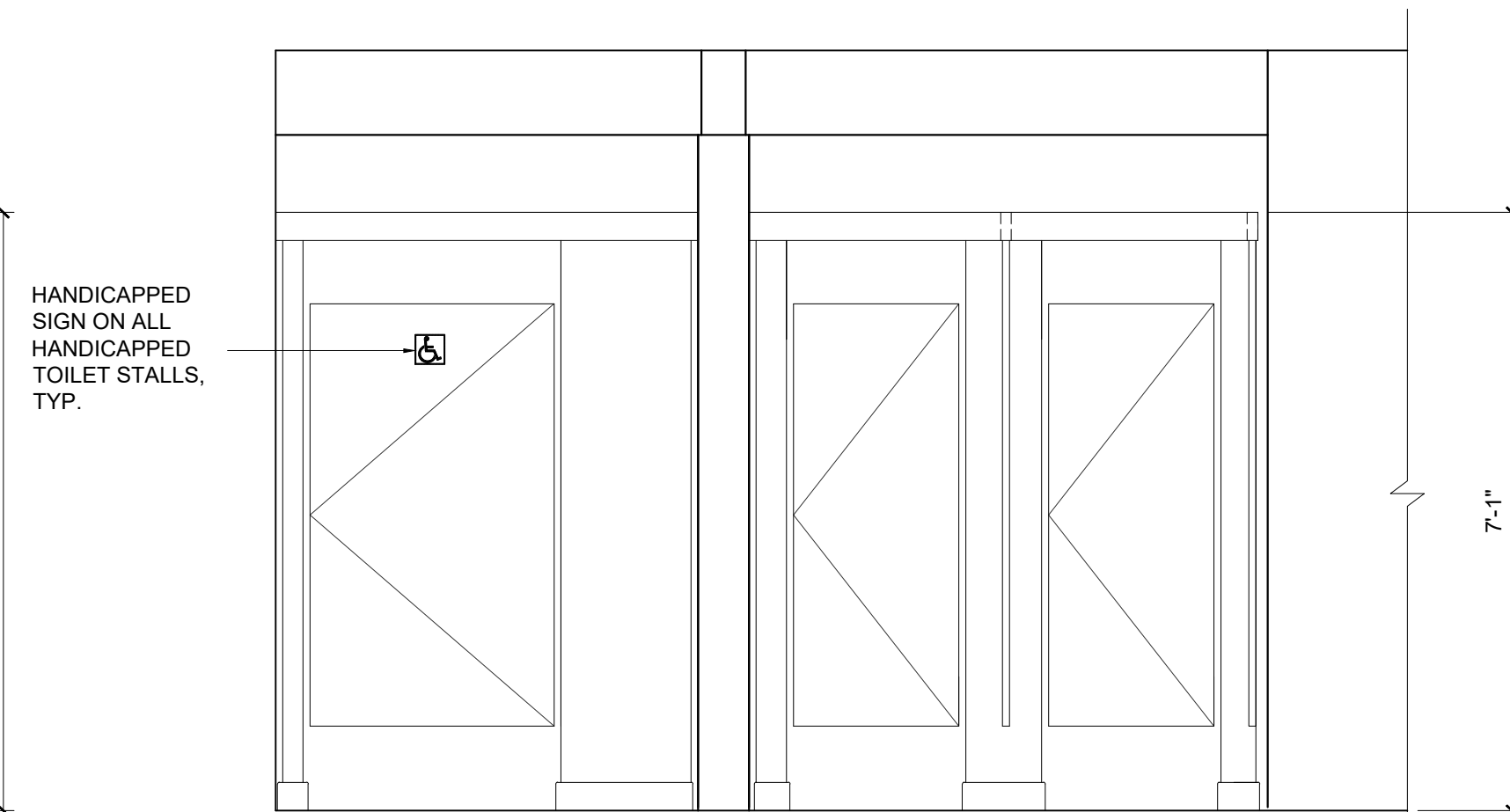


INSULATE HOT, COLD, & DRAIN LINES

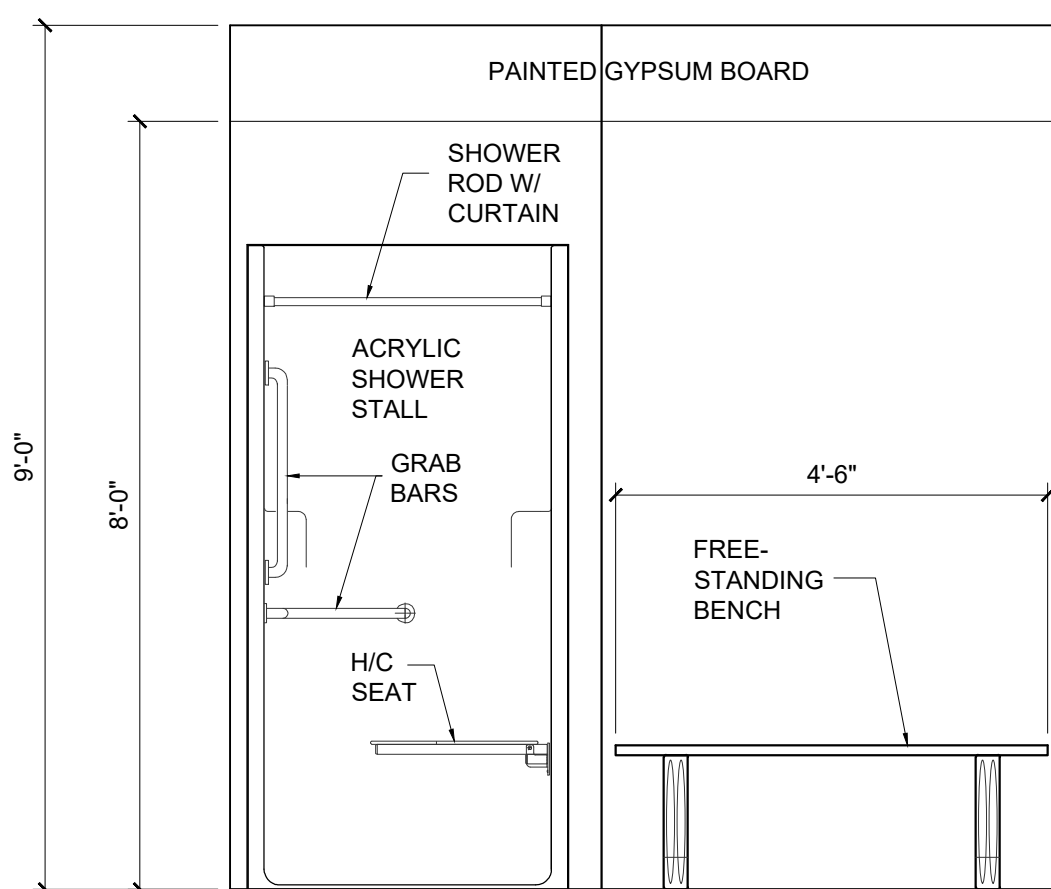
2
A-11.1 | A-12.1
WOMEN'S 101
SCALE: 1/2"=1'-0"



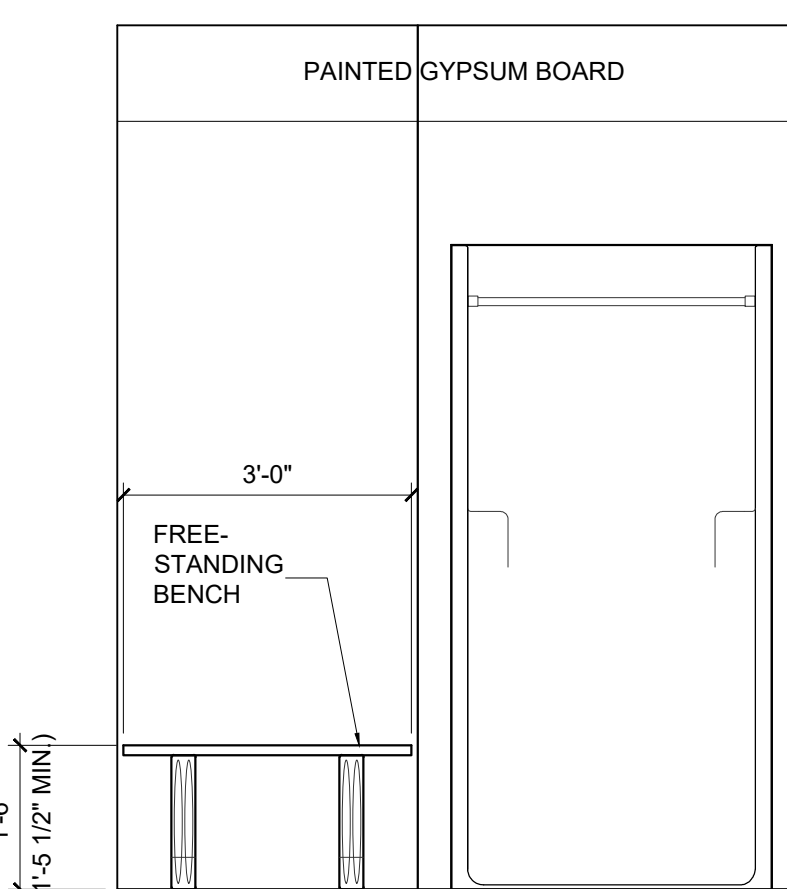
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A-11.1 | A-12.1
WOMEN'S 101
SCALE: 1/2"=1'-0"



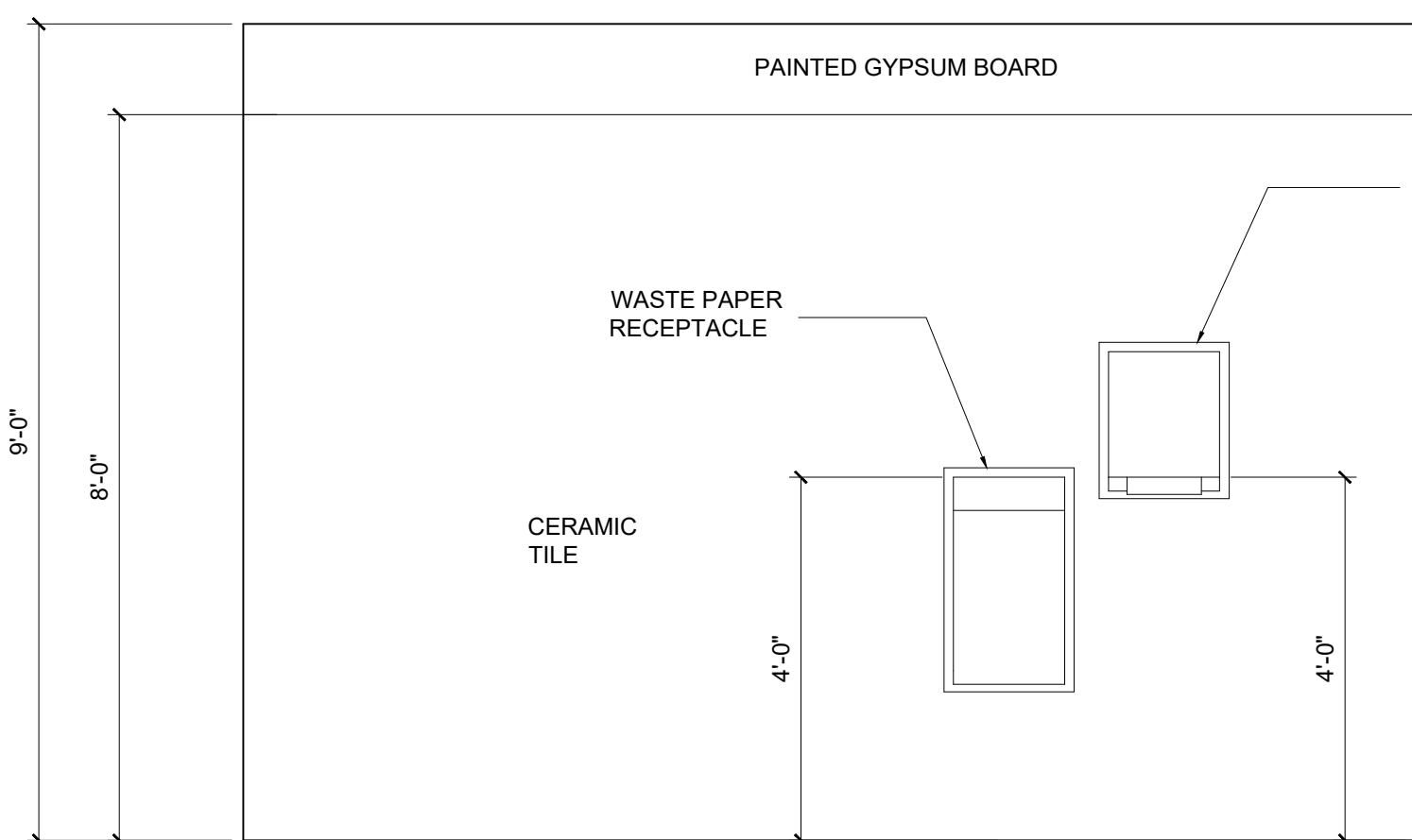
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A-11.1 | A-12.1
WOMEN'S 101
SCALE: 1/2"=1'-0"



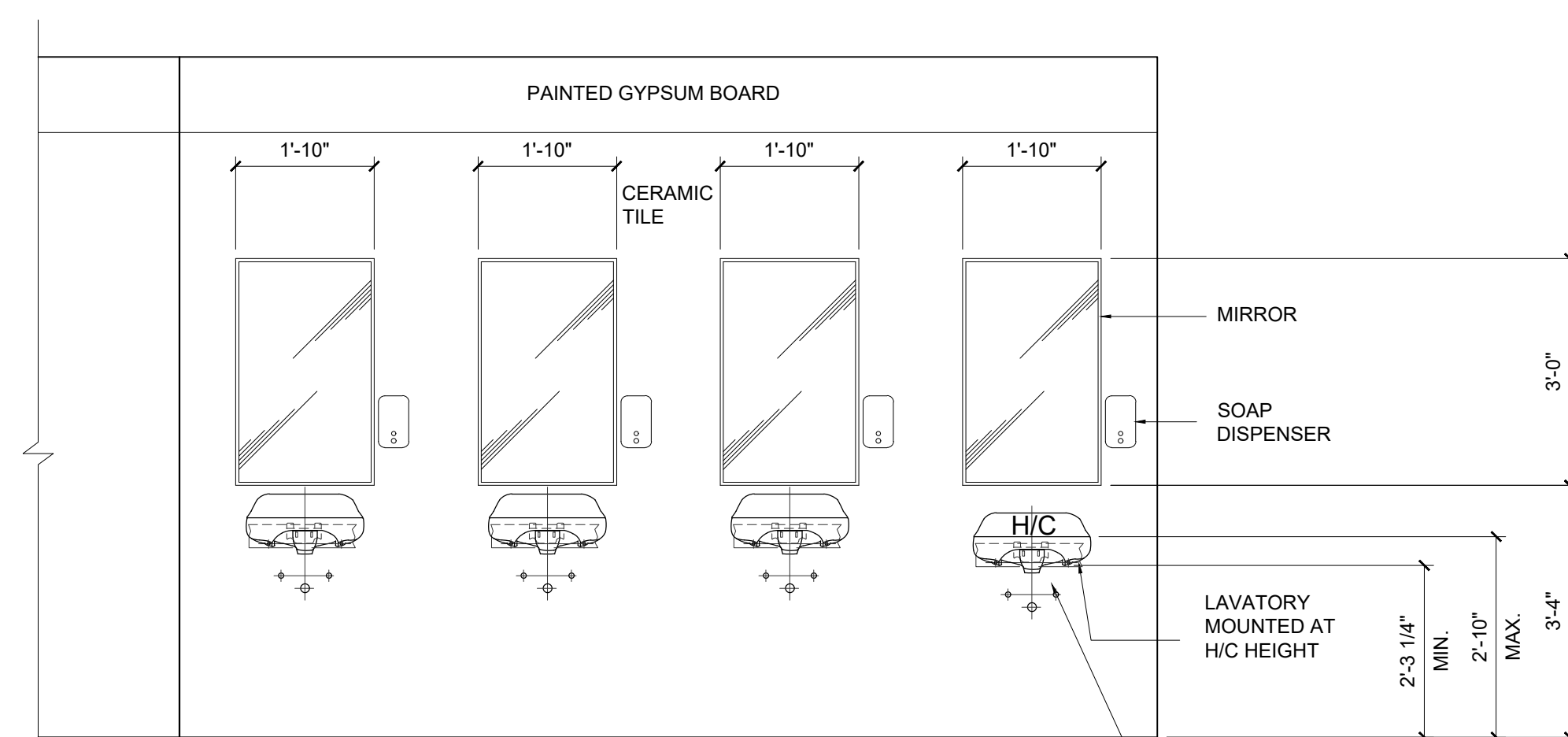
5
A-11.1 | A-12.1
WOMEN'S 101
SCALE: 1/2"=1'-0"



6
A-11.1 | A-12.1
WOMEN'S 101
SCALE: 1/2"=1'-0"

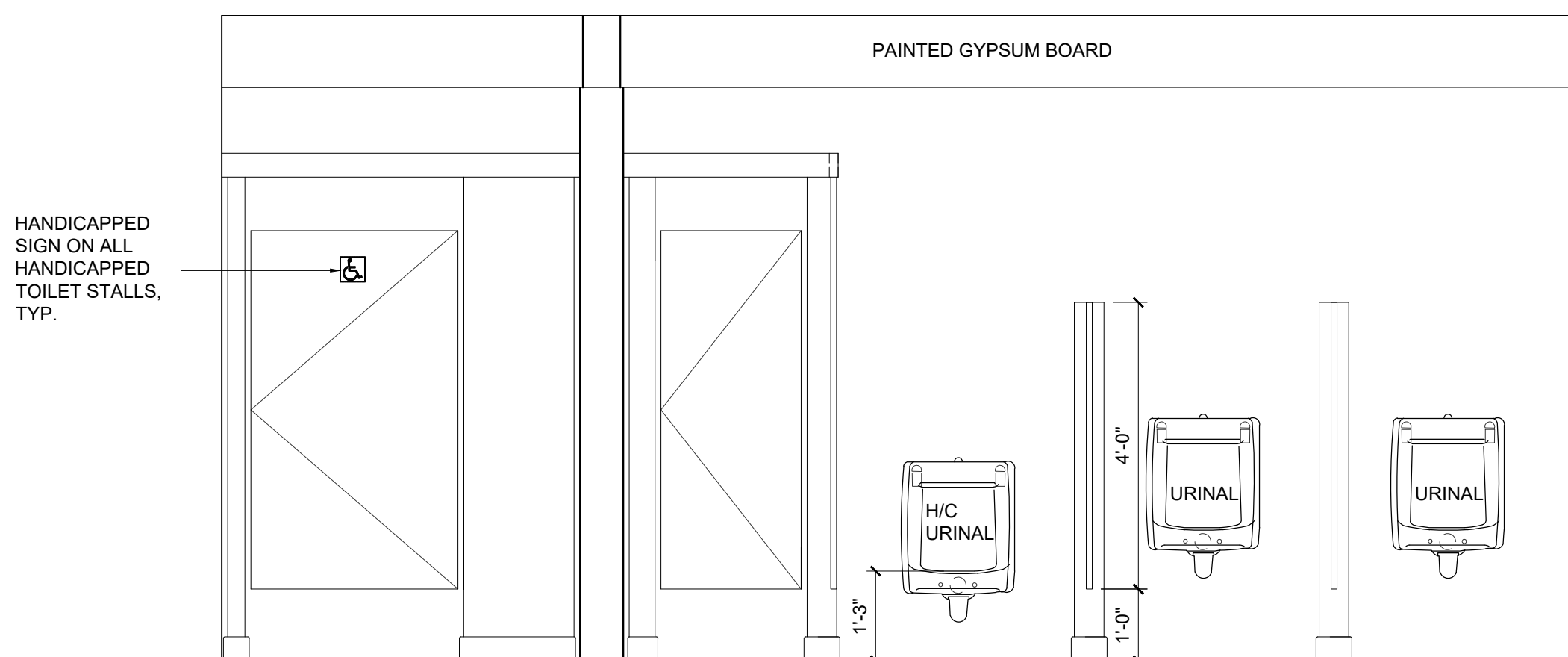


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A-11.1 | A-12.1
MEN'S 102
SCALE: 1/2"=1'-0"

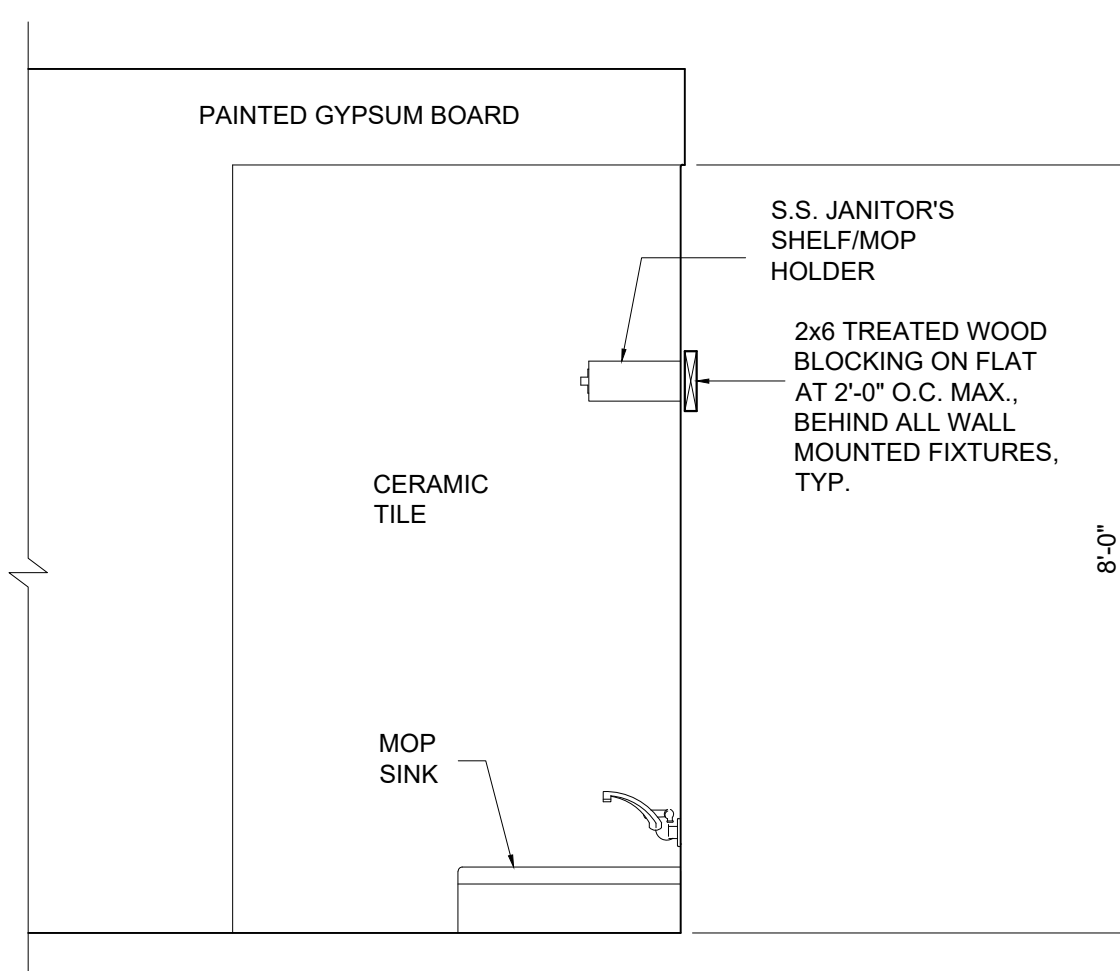


INSULATE HOT, COLD, & DRAIN LINES

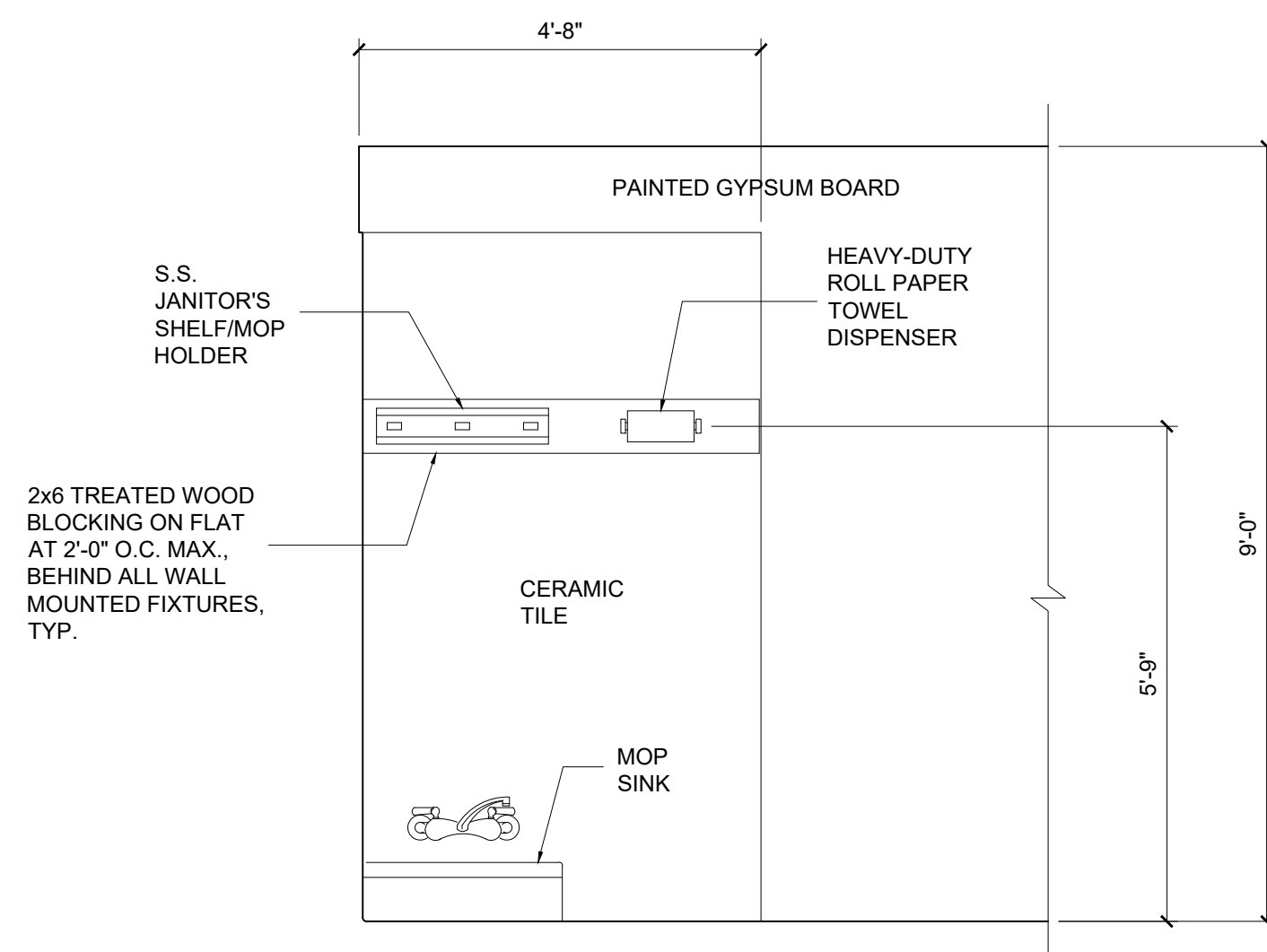
8
A-11.1 | A-12.1
MEN'S 102
SCALE: 1/2"=1'-0"



6
A-11.1 | A-12.1
MEN'S 102
SCALE: 1/2"=1'-0"

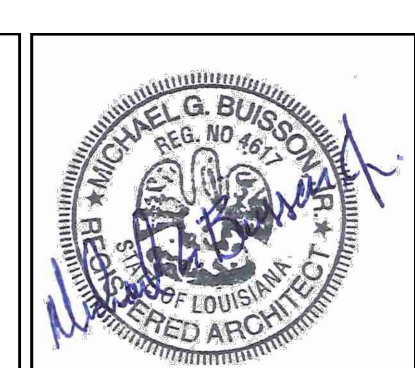


7
A-11.1 | A-12.1
MEN'S 102
SCALE: 1/2"=1'-0"



8
A-11.1 | A-12.1
MEN'S 102
SCALE: 1/2"=1'-0"

USE INTERIOR ELEVATIONS THESE SHEETS FOR DETERMINATION OF FINISHES ON WALLS WITH MULTIPLE FINISHES.



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PROGRAM & PROJECT MANAGERS
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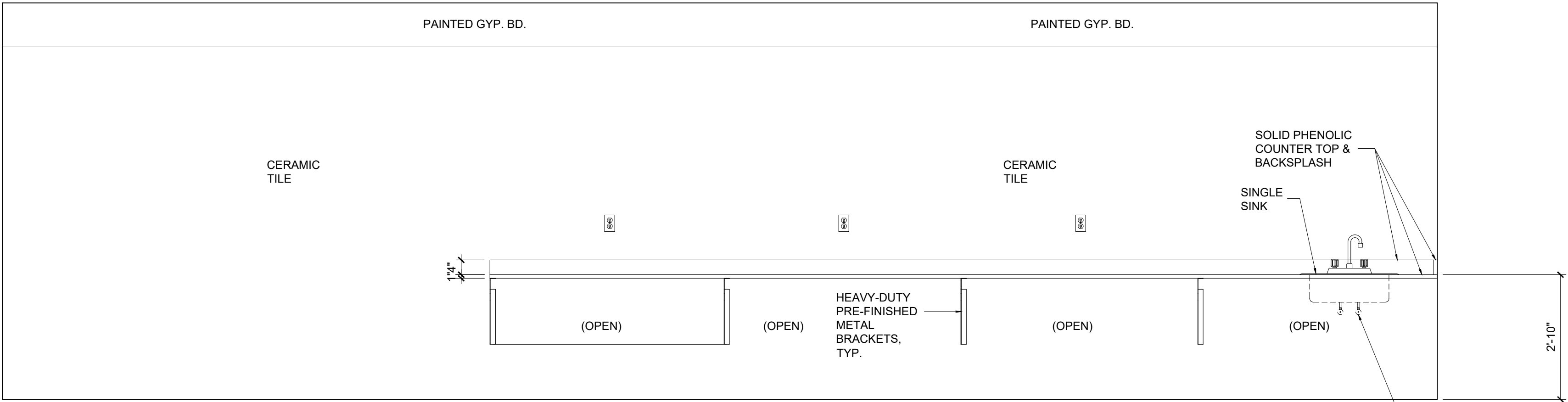
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ENLARGED RESTROOM ELEVATIONS

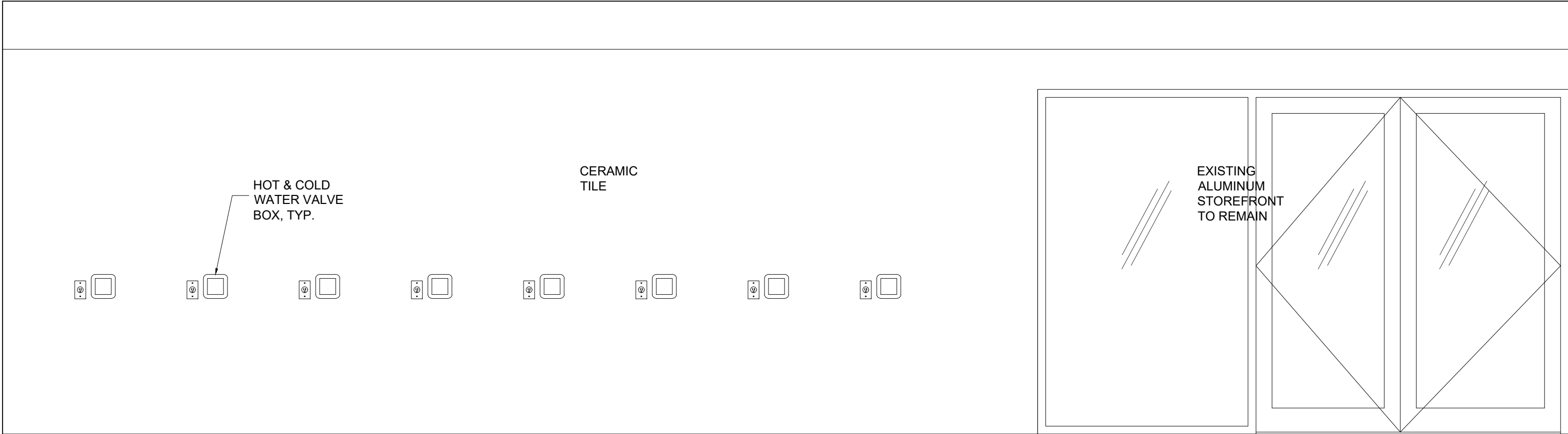
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DESIGNED BY: MS

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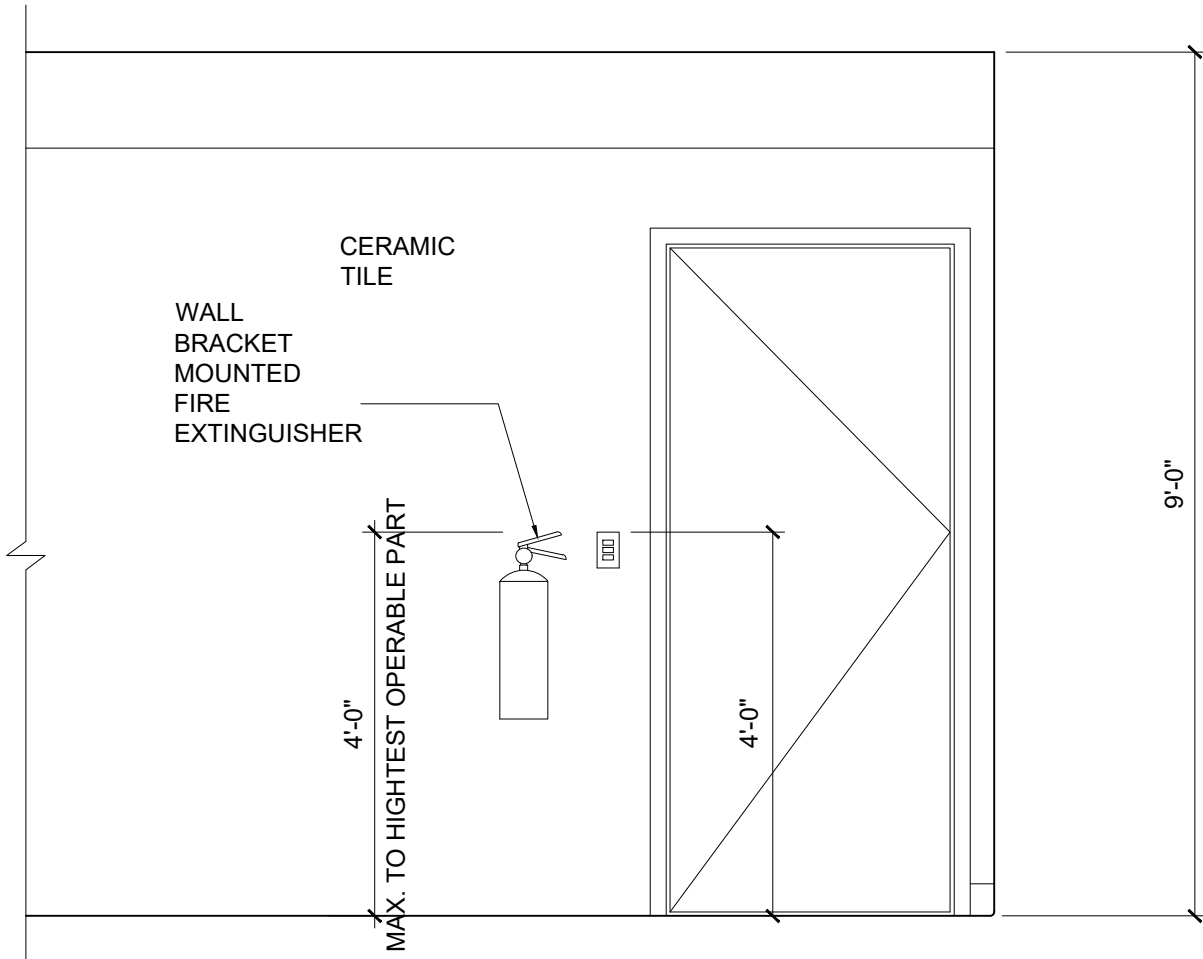
Sheet 39 of 42



1
A-11.1 | A-12.2
LAUNDRY 103
SCALE: 1/2"=1'-0



2
A-11.1 | A-12.2
LAUNDRY 103
SCALE: 1/2"=1'-0



3
A-11.1 | A-12.2
LAUNDRY 103
SCALE: 1/2"=1'-0

USE INTERIOR ELEVATIONS THESE SHEETS FOR DETERMINATION OF FINISHES ON WALLS WITH MULTIPLE FINISHES.



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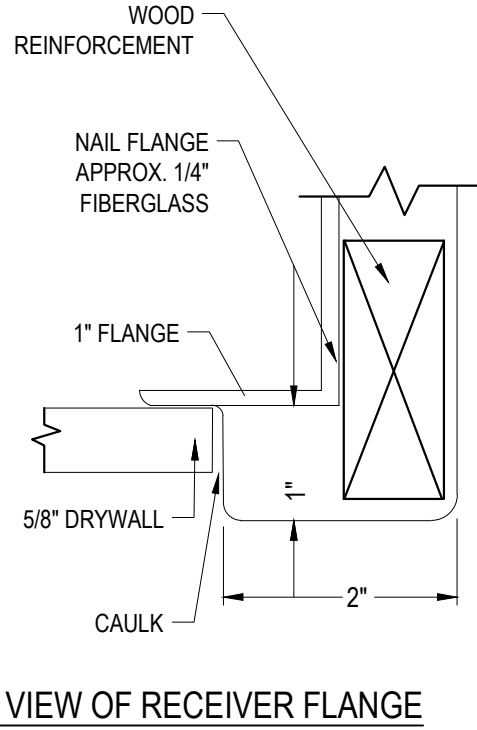
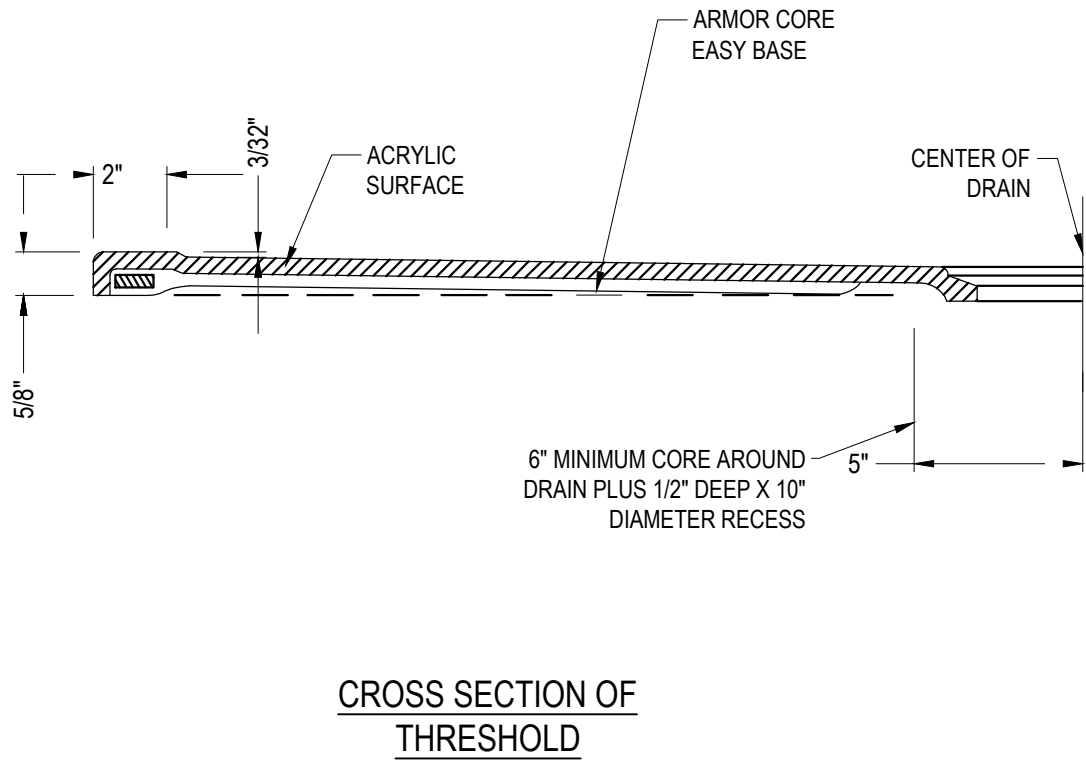
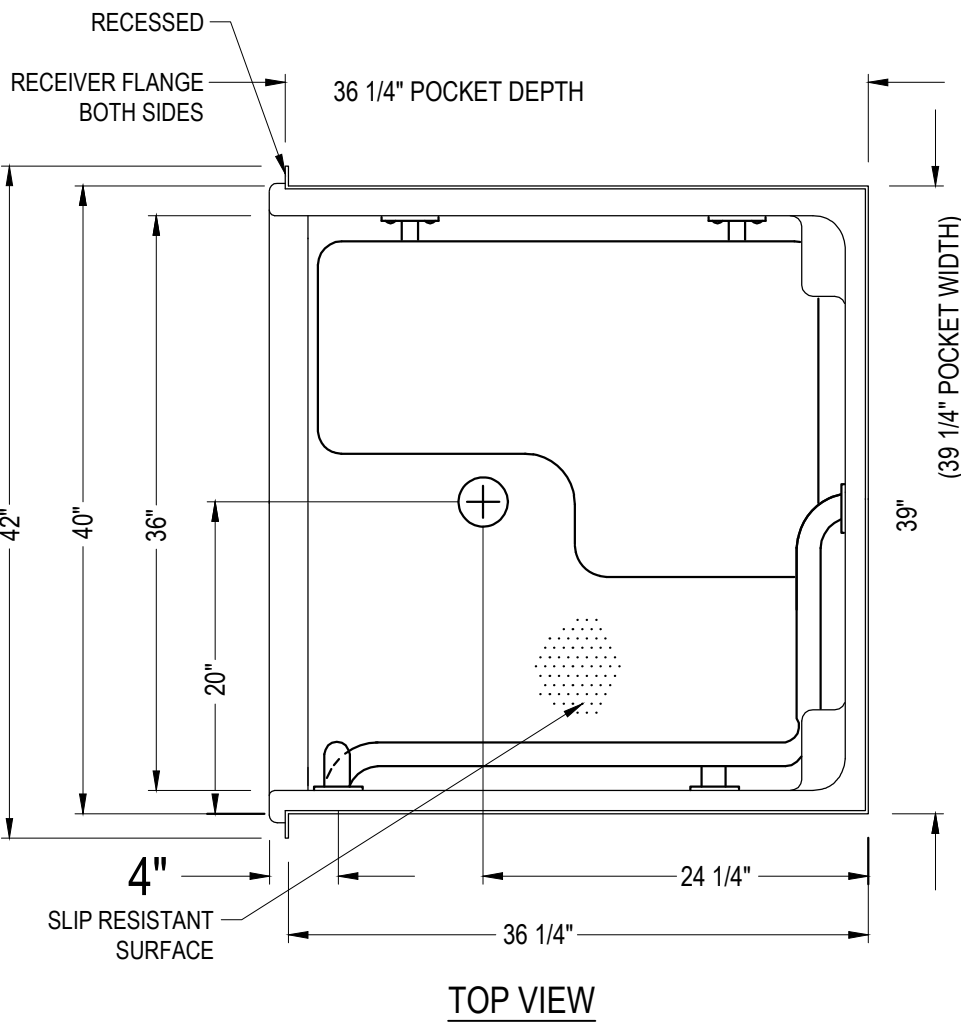
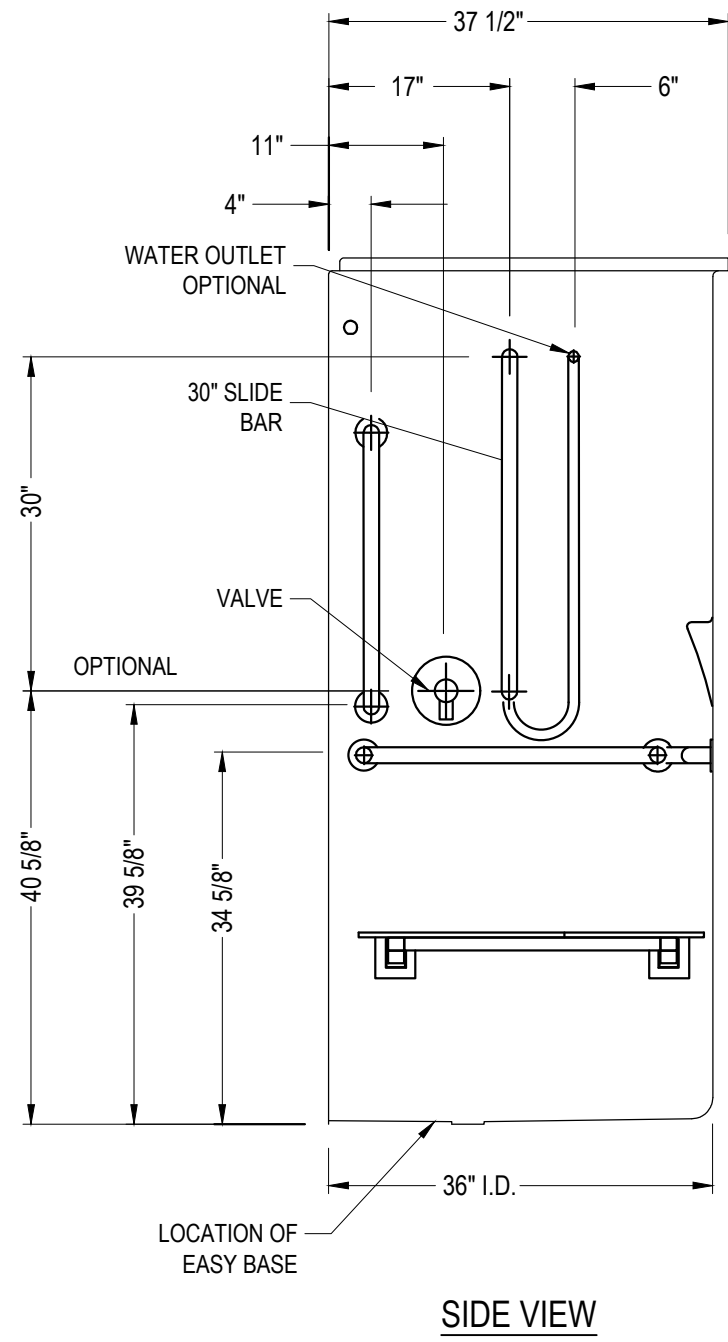
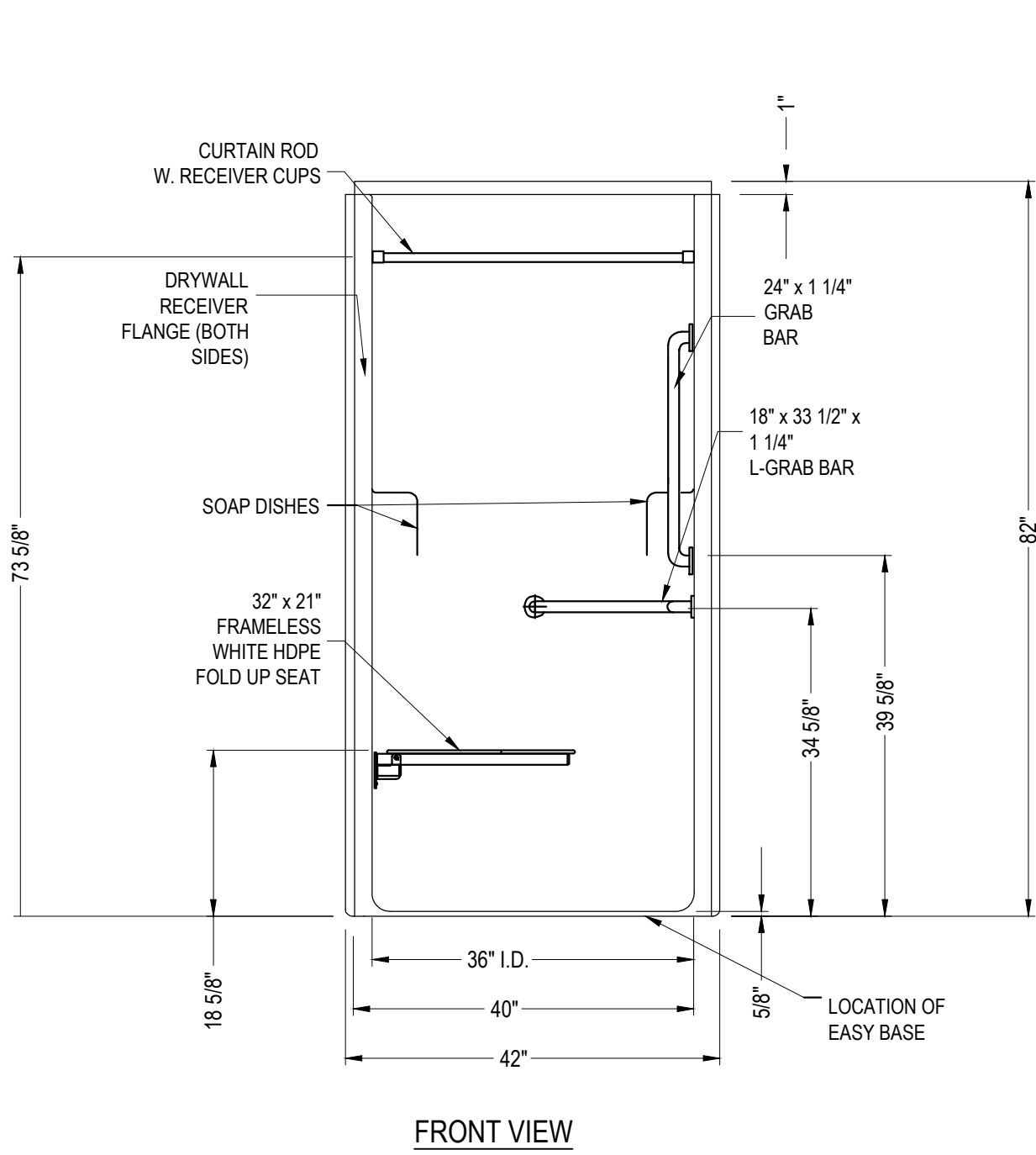
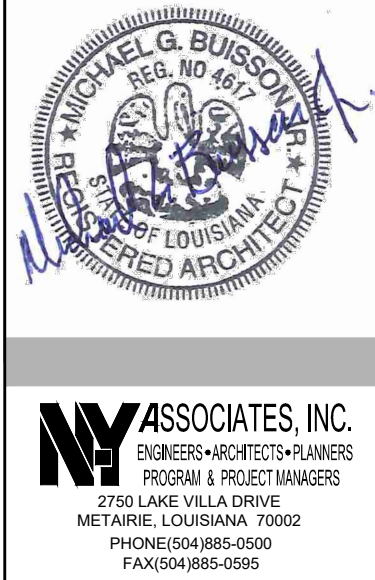


USE INTERIOR ELEVATIONS THESE SHEETS FOR DETERMINATION OF FINISHES ON WALLS WITH MULTIPLE FINISHES.

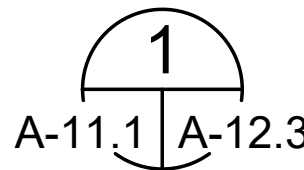


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435 INDUSTRIAL RD.
SAVANNAH, TN 38372
PHONE: (731) 925-6430
www.comfortdesignsbathware.com

HANDICAPPED SHOWER STALL SHALL BE FULLY
ANSI, AND ADA COMPLIANT.



- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER



DETAIL - ADA TRANSFER SHOWER STALL

NOT TO SCALE

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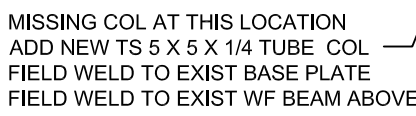
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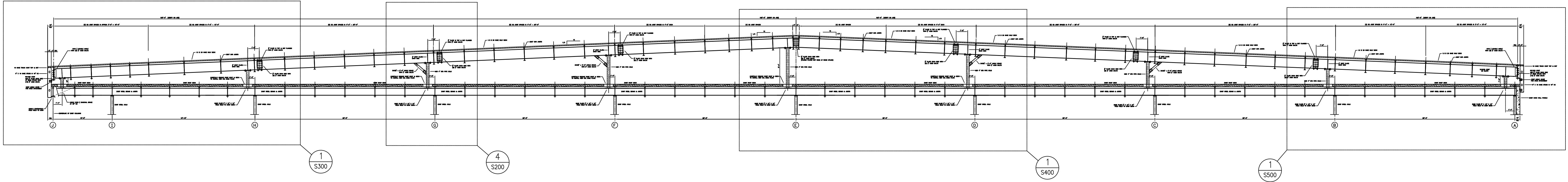
**ADA
SHOWER
STALL
DETAILS**

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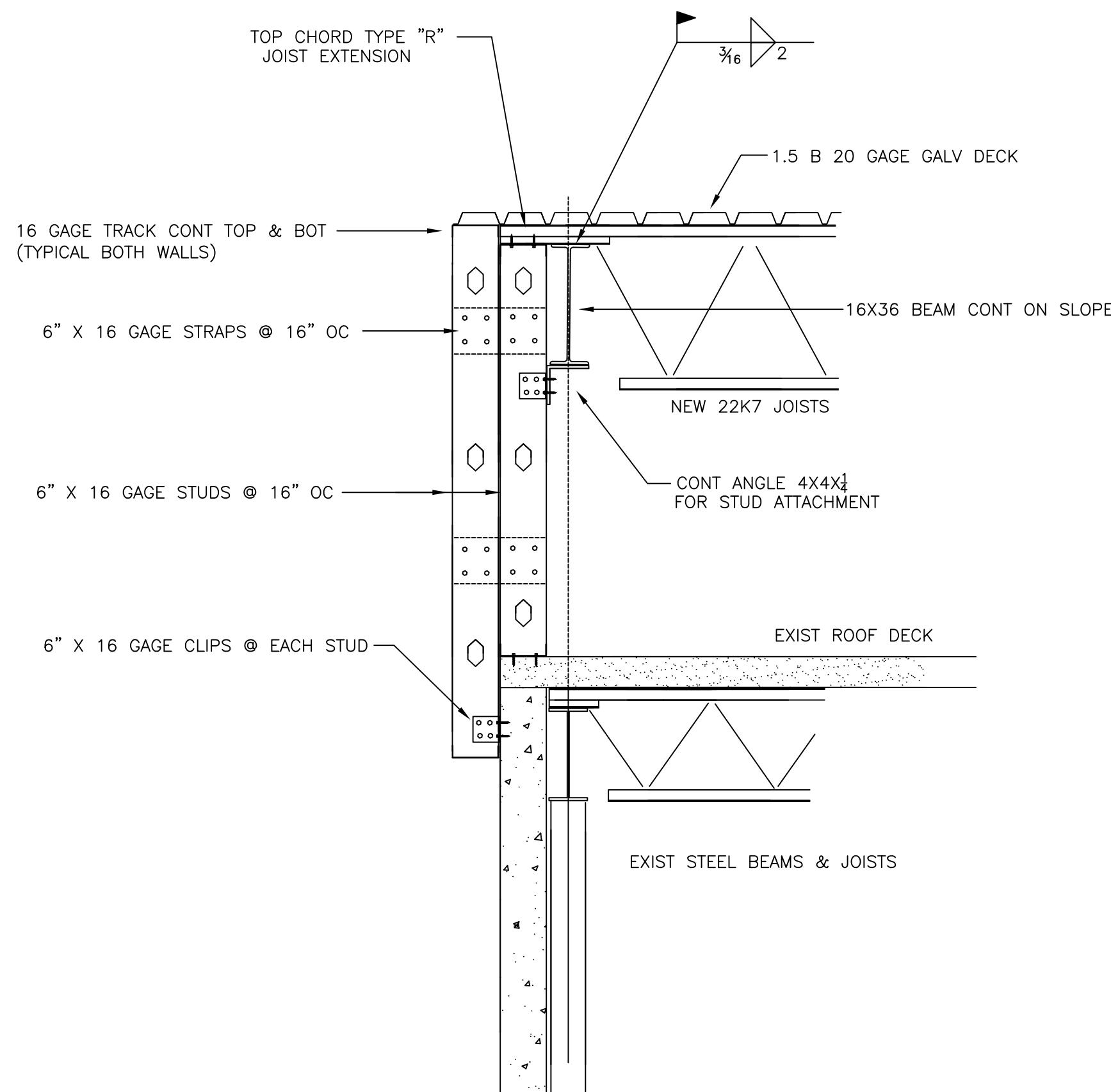
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Sheet 42 of 42

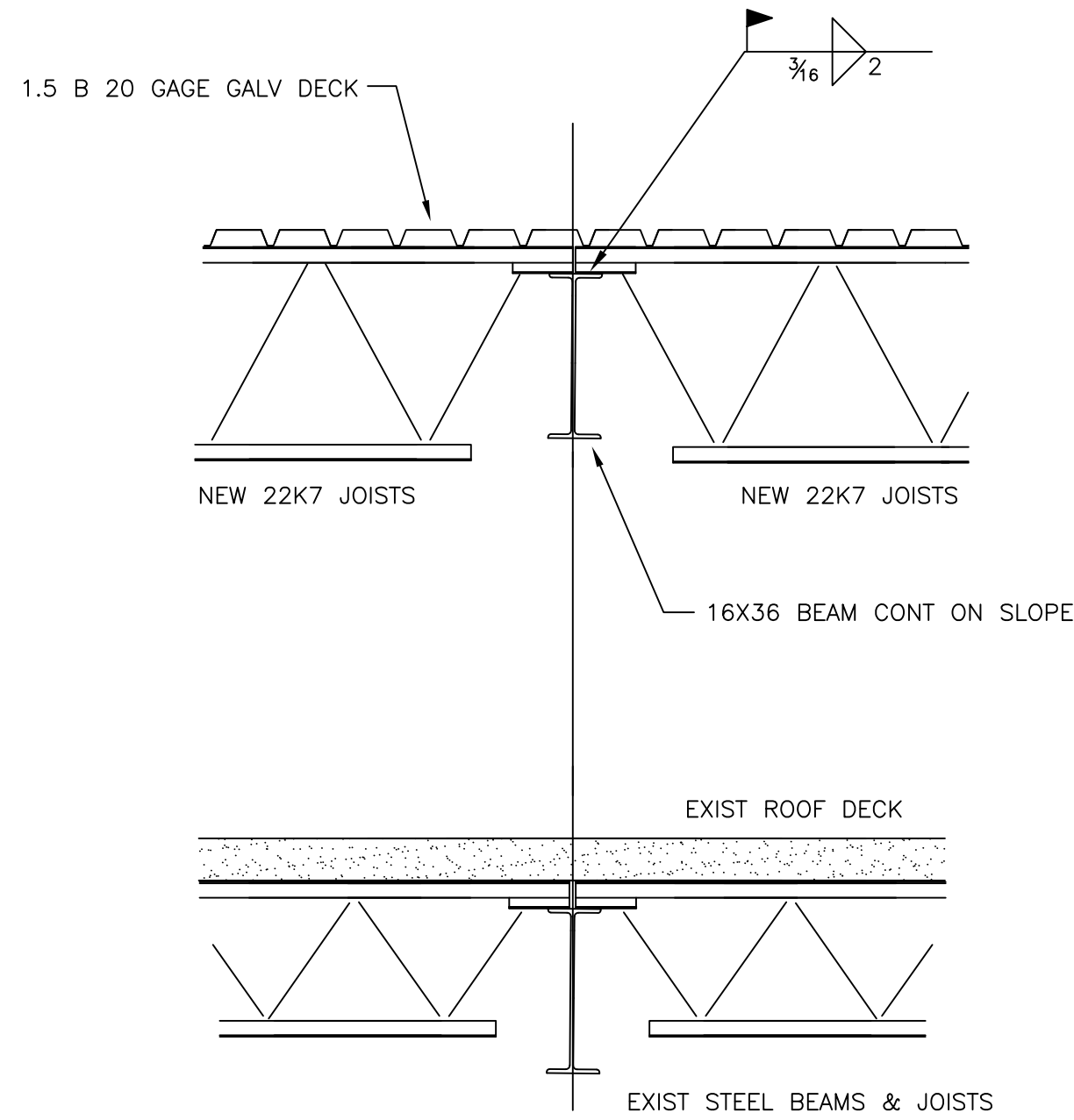




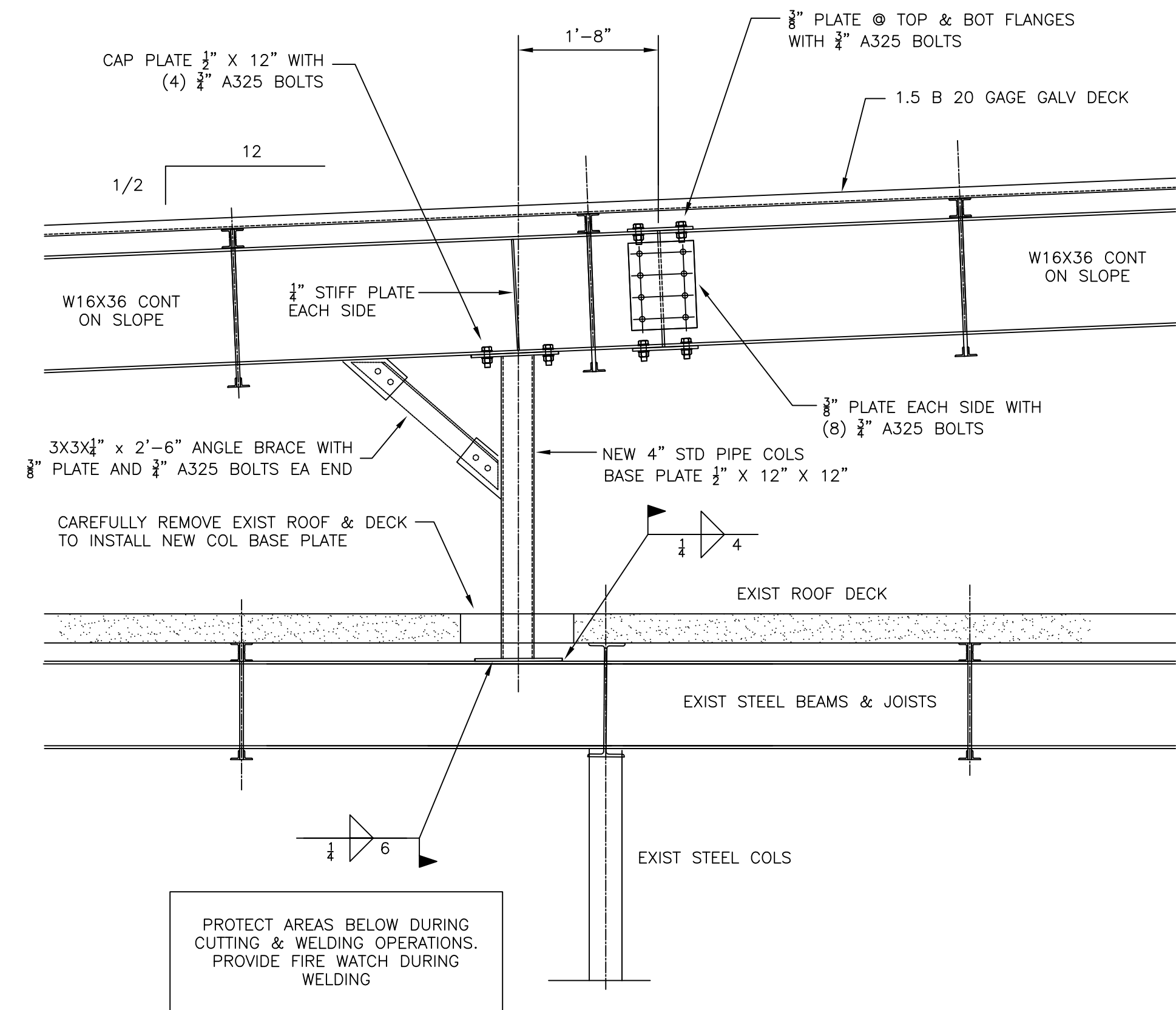
1 CROSS SECTION AT NEW ROOF FRAMING
SCALE: NONE



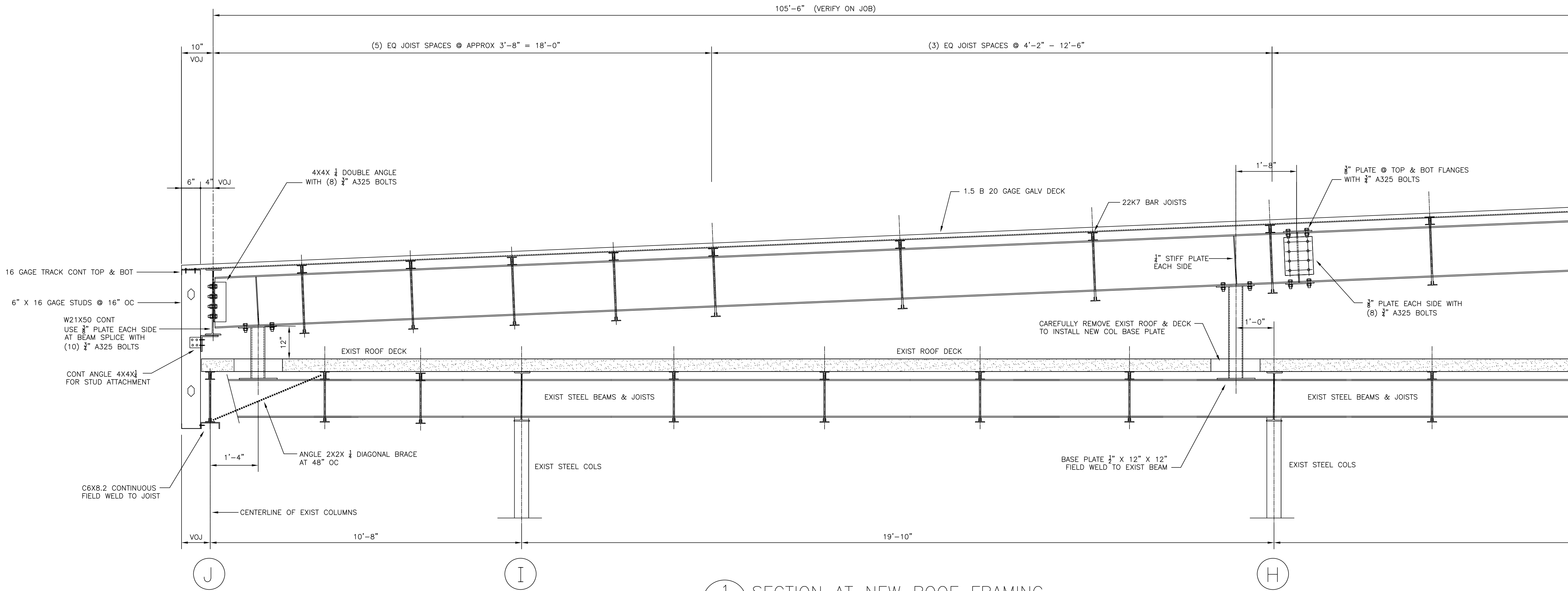
2 SECTION AT GABLE END WALL
SCALE: 3/4"=1'-0"



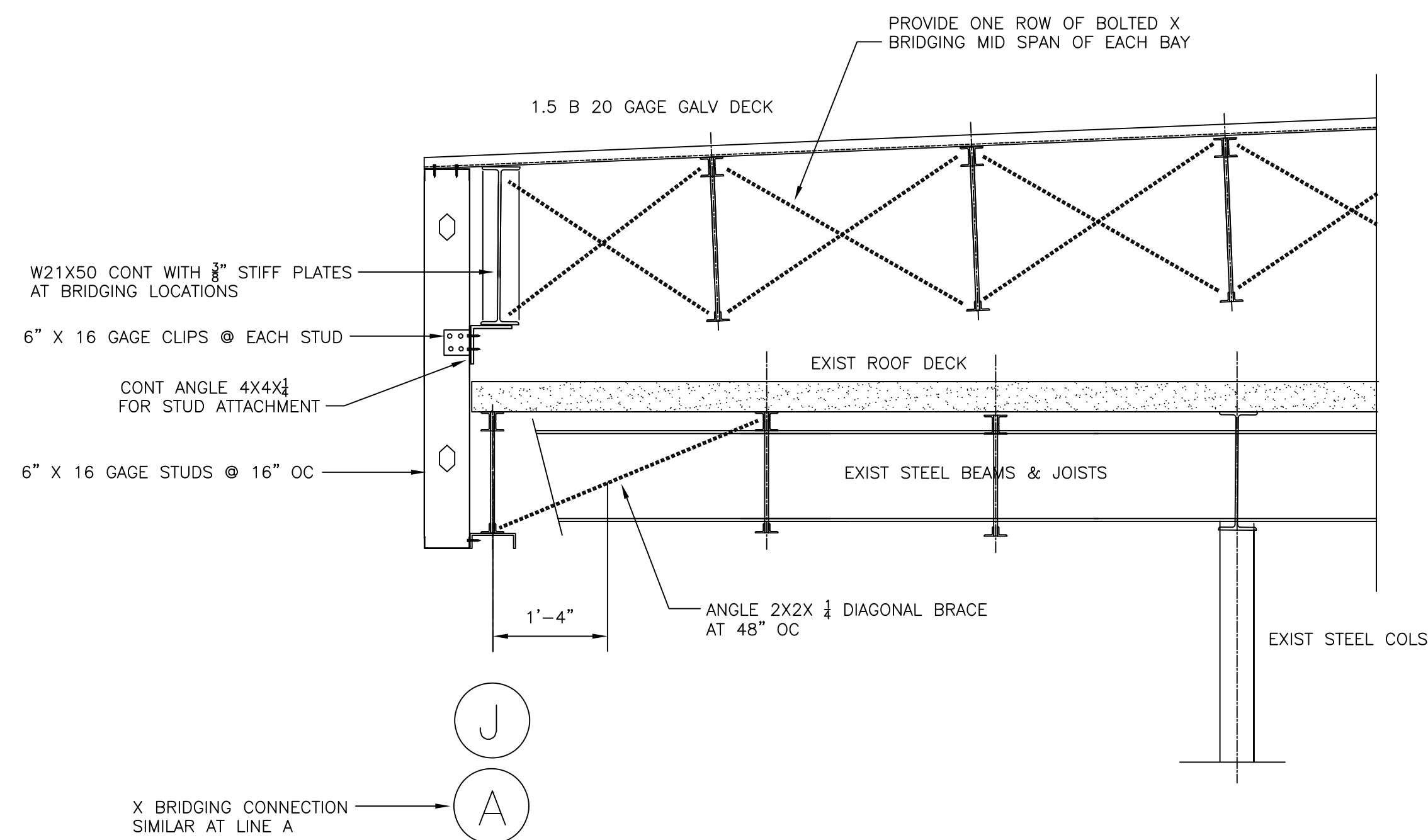
3 SECTION AT INTERIOR BEAM
SCALE: 3/4"=1'-0"



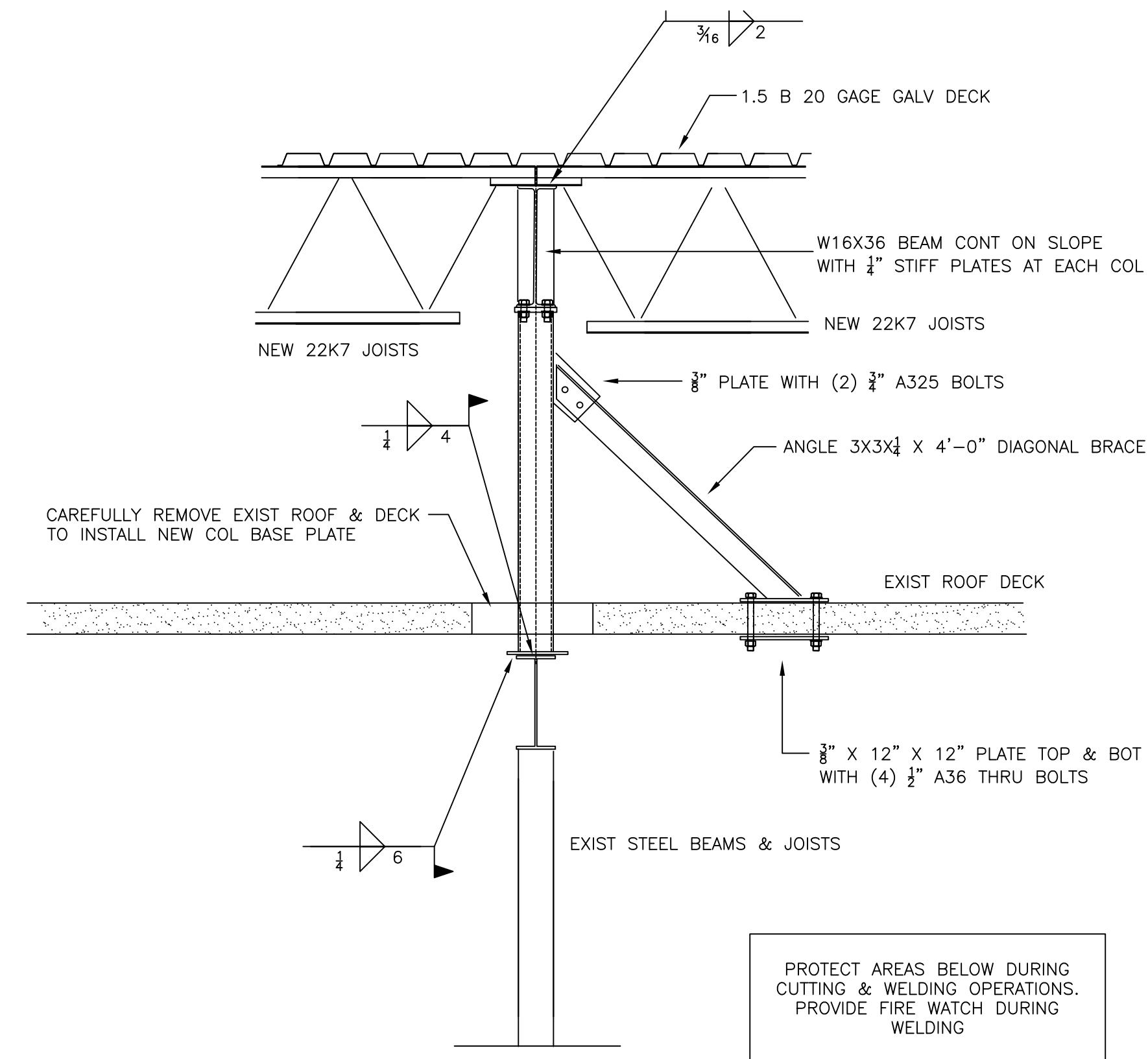
4 SECTION AT INTERIOR COLUMN
SCALE: 3/4"=1'-0"



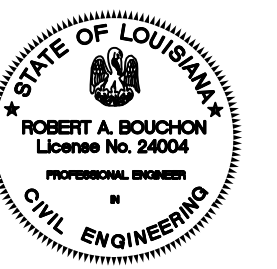
1 SECTION AT NEW ROOF FRAMING
S300 SCALE: 3/4" = 1'-0"



2 SECTION AT JOIST BRIDGING
S300 SCALE: 3/4"=1'-0"



3 SECTION AT DIAGONAL BRACE
S300 SCALE: 3/4"=1'-0"



Robert Bouchon
June 9, 2023

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PROGRAM & PROJECT MANAGERS
2750 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
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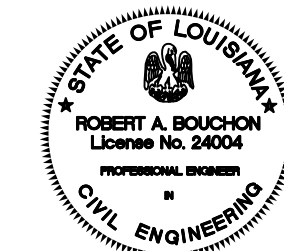
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S300

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S400

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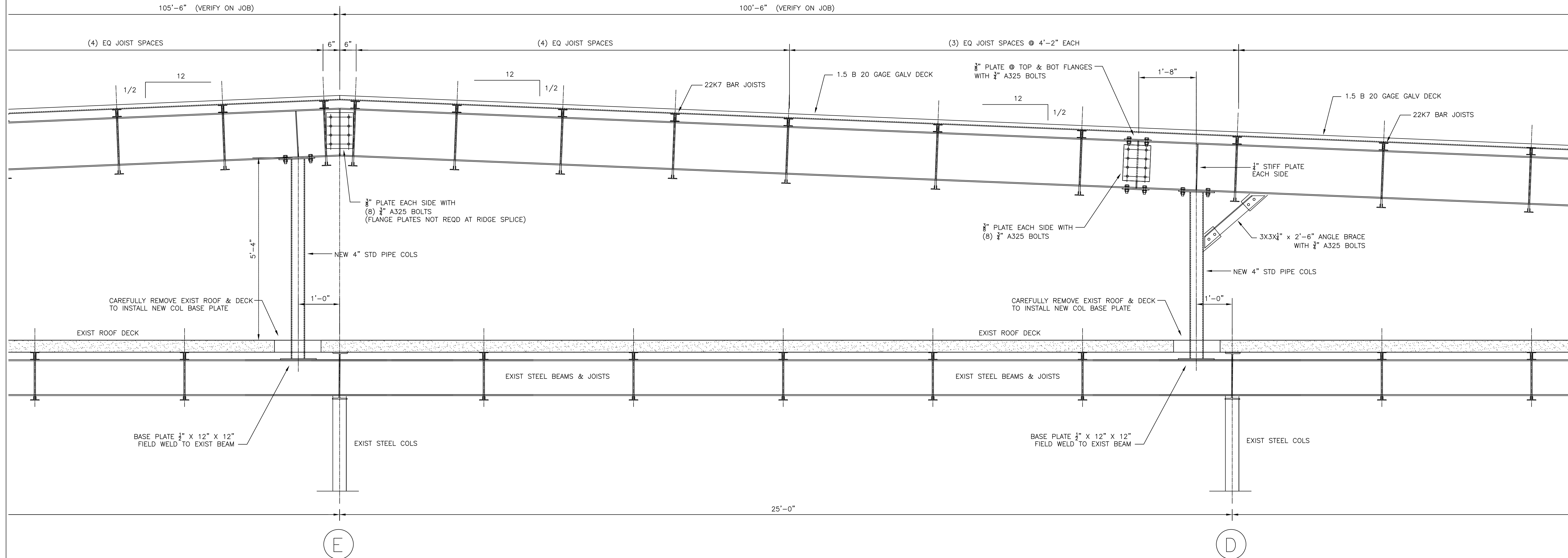
105'-6" (VERIFY ON JOB)

100'-6" (VERIFY ON JOB)

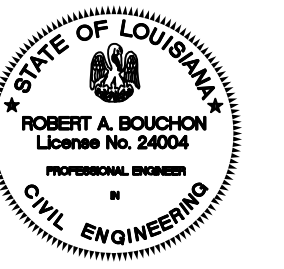
(4) EQ JOIST SPACES

(4) EQ JOIST SPACES

(3) EQ JOIST SPACES @ 4'-2" EACH



1 SECTION AT NEW ROOF FRAMING
S400 SCALE: 3/4" = 1'-0"



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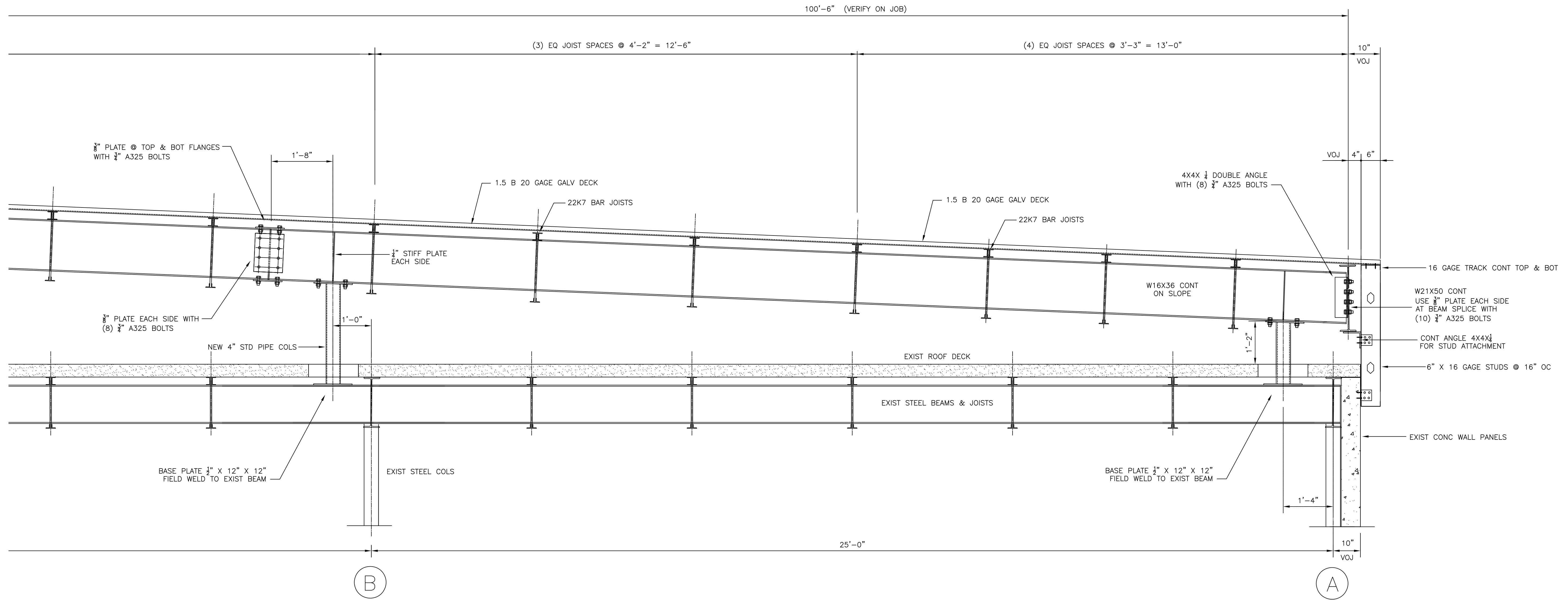
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1 SECTION AT NEW ROOF FRAMING
S500 SCALE: 3/4" = 1'-0"



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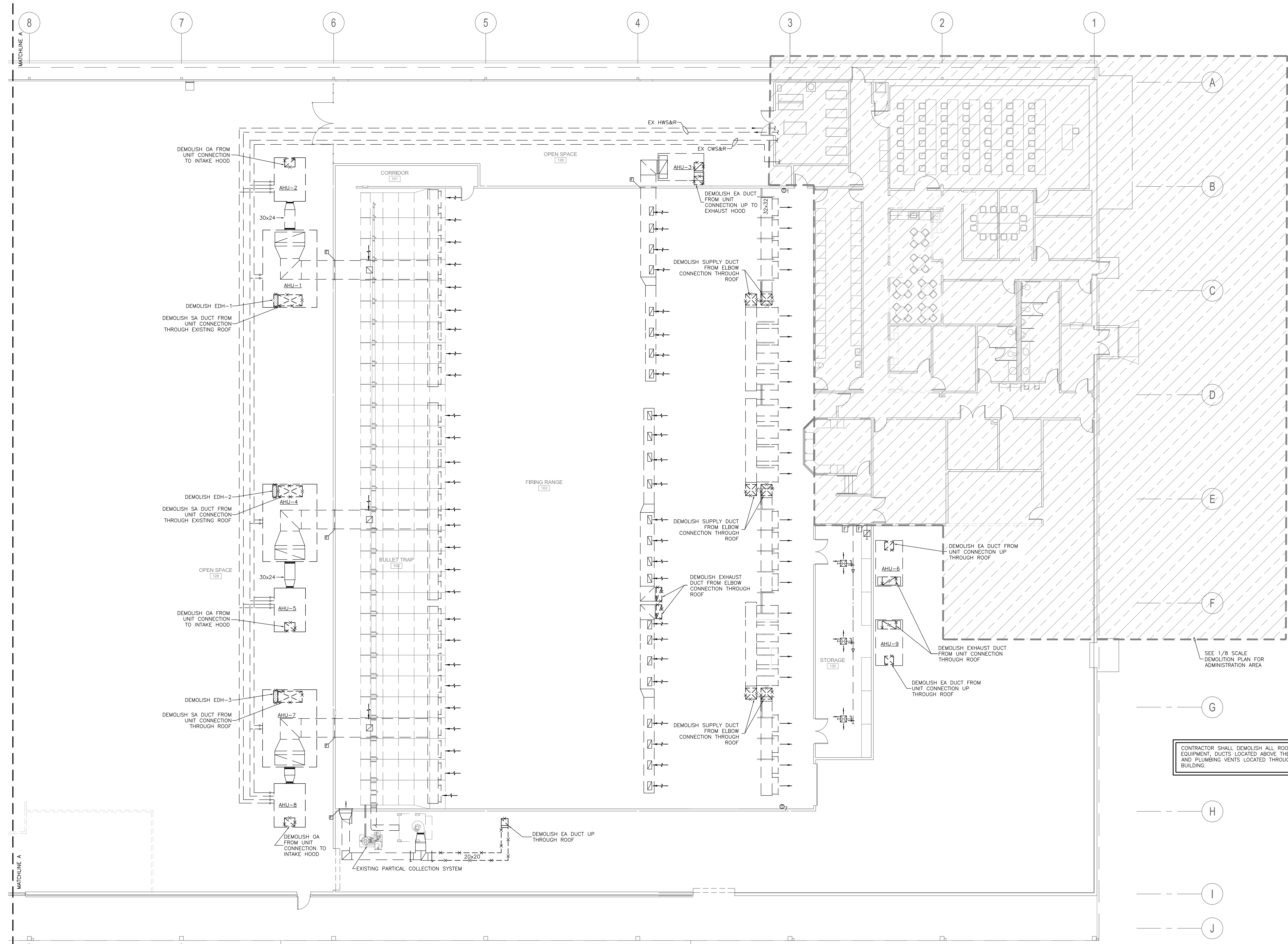
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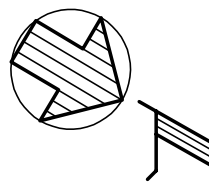
MD-1
Sheet of



CONTRACTOR SHALL DEMOLISH ALL ROOFTOP
EQUIPMENT, DUCTS LOCATED ABOVE THE FLAT ROOF,
AND PLUMBING VENTS LOCATED THROUGHOUT THE
BUILDING.

GVA ENGINEERING, L.L.C.
PROJECT No. 4268

GVAE
PARTIAL FIRST FLOOR DEMOLITION PLAN
3/32" = 1'-0"



GVA PROJECT No
4268
CAD FILE
GVAE_DEMO.PLN
LAST REVISION
04-19-23
PLOT DATE
04-19-23
PLOT SCALE
1=1

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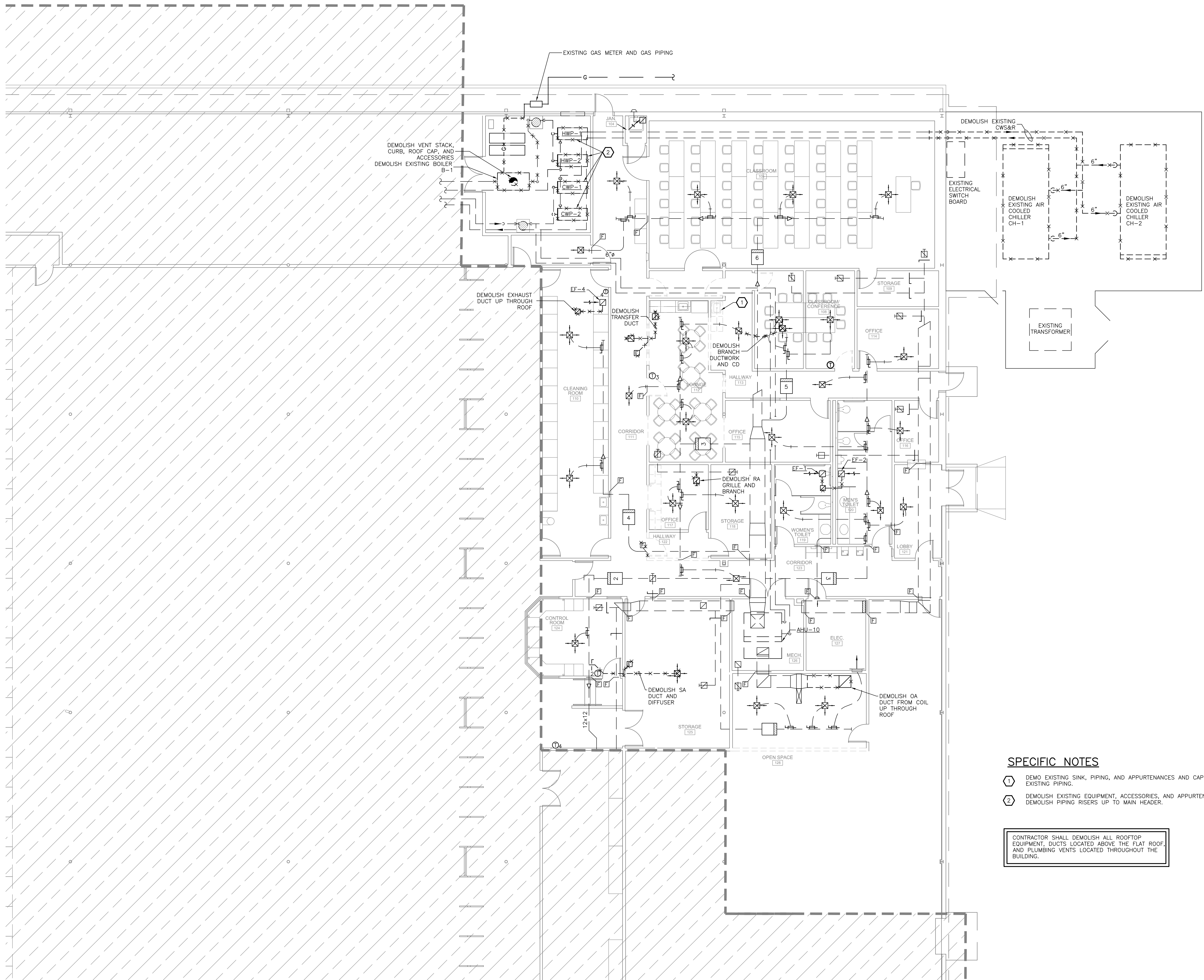
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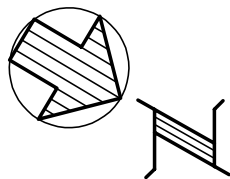


SPECIFIC NOTES

- ① DEMO EXISTING SINK, PIPING, AND APPURTENANCES AND CAP EXISTING PIPING.
- ② DEMOLISH EXISTING EQUIPMENT, ACCESSORIES, AND APPURTENANCES. DEMOLISH PIPING RISERS UP TO MAIN HEADER.

CONTRACTOR SHALL DEMOLISH ALL ROOFTOP EQUIPMENT, DUCTS LOCATED ABOVE THE FLAT ROOF, AND PLUMBING VENTS LOCATED THROUGHOUT THE BUILDING.

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



GVA ENGINEERING, L.L.C.
PROJECT No. 4268

GVA PROJECT No
4268
CAD FILE
GVAE_DEMO.PLN
LAST REVISION
04-19-23
PLOT DATE
04-19-23
PLOT SCALE
1=1

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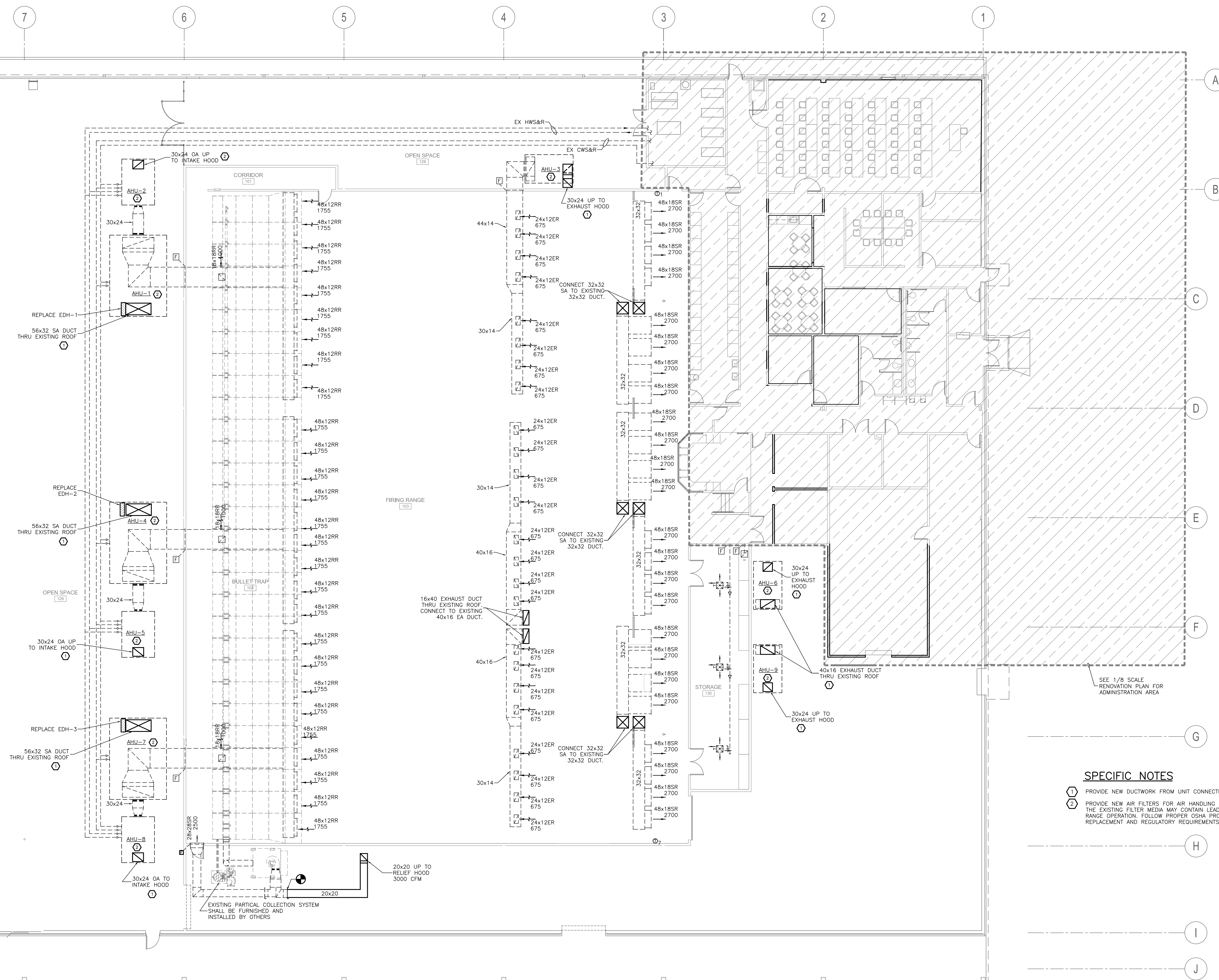
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M-1

Sheet 6

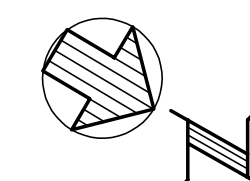


SPECIFIC NOTES

- 1 PROVIDE NEW DUCTWORK FROM UNIT CONNECTION TO TERMINATION.
- 2 PROVIDE NEW AIR FILTERS FOR AIR HANDLING UNITS. SEE SCHEDULE. THE EXISTING FILTER MEDIA MAY CONTAIN LEAD PARTICULATES FROM RANGE OPERATION. FOLLOW PROPER OSHA PROCEDURE FOR FILTER REPLACEMENT AND REGULATORY REQUIREMENTS FOR FILTER DISPOSAL.

SEE 1/8 SCALE
RENOVATION PLAN FOR
ADMINISTRATION AREA

MECHANICAL PARTIAL FIRST FLOOR RENOVATION PLAN

$$\frac{3}{32}'' = 1'-0''$$


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PROJECT No. 4268

GVA PROJECT No 4268						
CAD FILE AC_RANGE_RENO_PLN						
LAST REVISION 04-19-23						
PLOT DATE 04-19-23						
PLOT SCALE 1=1						

RENO_PLM



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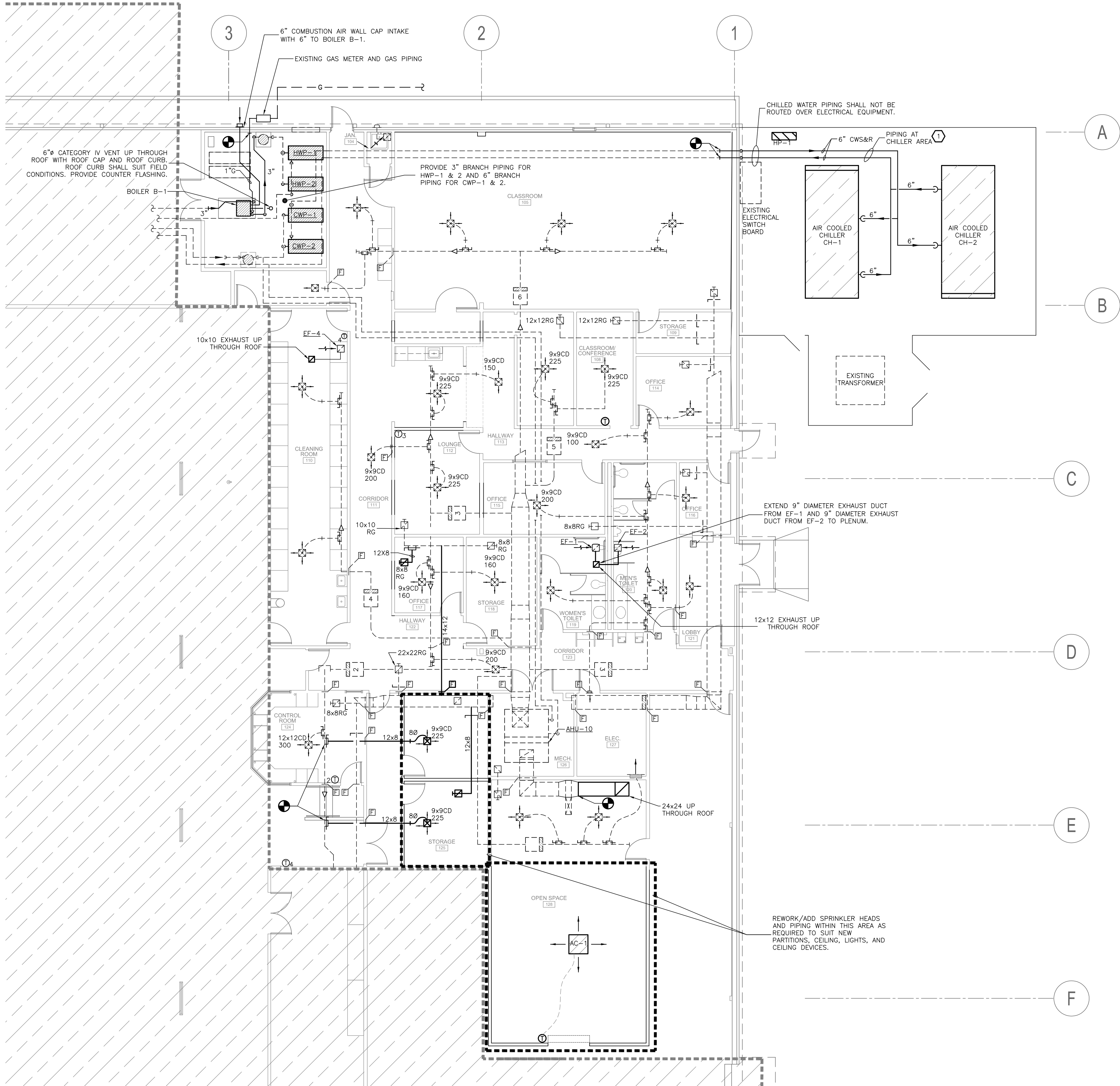
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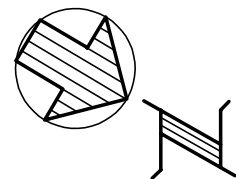
M-2

Sheet of



MECHANICAL
PARTIAL FIRST FLOOR RENOVATION PLAN

1/8" = 1'-0"



SPECIFIC NOTES

- ① HORIZONTAL PIPING SHALL BE INSTALLED WITH BOTTOM AT 7'-6" ABOVE THE SLAB. THE BOTTOM OF PIPING INSULATION IS TO BE ABOVE THE TOP OF THE CHILLER. PROVIDE GALVANIZED STANDS TO SUPPORT PIPING FROM SLAB. STANDS TO HAVE 8X8 BASE PLATE. GROUT BETWEEN BASEPLATE AND SLAB. LOCATE PIPING AND SUPPORTS SO AS NOT TO INTERFERE WITH SERVICE AND ACCESS CLEARANCES AND NOT TO INTERFERE WITH REQUIRED NATIONAL ELECTRICAL CODE CLEARANCES TO ELECTRICAL EQUIPMENT AND CONTROL PANELS. NO PIPING IS PERMITTED OVER ELECTRICAL PANELS OR EQUIPMENT

GVA ENGINEERING, L.L.C.
PROJECT No. 4268

GVA PROJECT No	4268
CAD FILE	GVAE_RENO.PLN
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PLOT DATE	04-19-23
PLOT SCALE	1"=1'



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METairie, LOUISIANA 70002
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PROJECT No. 4268

SPECIFIC NOTES

1 PROVIDE ROOF CURB WITH COUNTER FLASHING TO SUIT NEW ROOFING SYSTEM. COORDINATE TRADES. NEW INTAKE/EXHAUST HOOD CONSTRUCTION AND INSTALLATION SHALL WITHSTAND HURRICANE FORCE WINDS.

THIS PLAN SHOWS DUCTWORK WHICH PENETRATES THE ORIGINAL FLAT ROOF. DUCTWORK WHICH IS ROUTED BETWEEN THE ORIGINAL FLAT ROOF AND THE SLOPING METAL ROOF SYSTEM, AND DUCTWORK WHICH PENETRATES THE SLOPING METAL ROOFING SYSTEM.

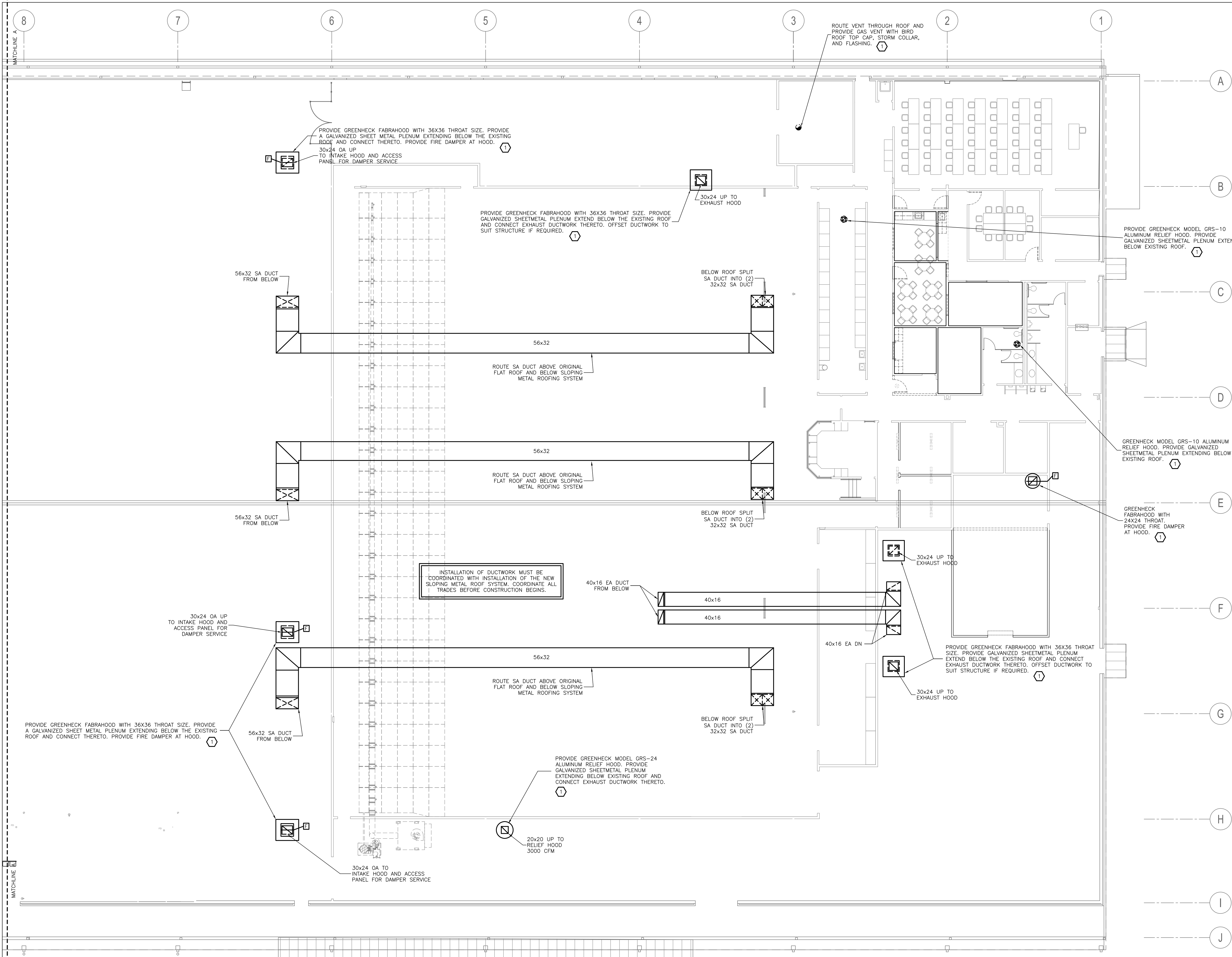
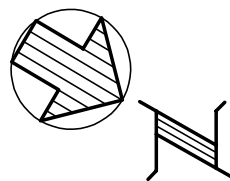
EXTEND ALL PLUMBING VENTS FROM THE SPACE FULL SIZE AND TERMINATE ABOVE THE SLOPING METAL ROOF.

SEAL ALL PENETRATIONS OF THE ORIGINAL FLAT ROOF TO MAINTAIN ITS INTEGRITY AS A VAPOR BARRIER BETWEEN THE AIR CONDITIONED SPACE AND THE ATTIC SPACE BETWEEN THE TWO ROOFING SYSTEMS.

CONTRACTOR SHALL COORDINATE WORK BETWEEN THE STRUCTURAL AND MECHANICAL SUBS.

MECHANICAL
PARTIAL ROOF PLAN

3/32" = 1'-0"



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4268
CAD FILE
GVAE_ROOT PLN
LAST REVISION
04-19-23
PLOT DATE
04-19-23
PLOT SCALE
1=1

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DUCTLESS SPLIT SYSTEM SCHEDULE

INDOOR UNIT	UNIT	UNIT NUMBER	AC-1
		TYPE	CEILING CASSETTE
		MANUFACTURER	DAIKIN
		MODEL NUMBER	FLA-A12
		CFM	530
	COOLING	TOTAL CAPACITY (MBH)	11.2
		SENSIBLE CAPACITY (MBH)	10.6
		ENTERING AIR DB (°F)	75
		ENTERING AIR WB (°F)	62.5
	HEATING	HEAT CAPACITY (MBH)	9.0
OUTDOOR UNIT	UNIT	UNIT NUMBER	HP-1
		MODEL NUMBER	PUZ-A12
		OPERATING WEIGHT (LBS)	100
		AMBIENT TEMP. (°F)	95
		EER RATIO	16.4
	COMPRESSOR	QTY / RLA (EACH)	1/7
	FAN DATA	QTY / FLA (EACH)	1/0.5
	ELEC DATA	MINIMUM CIRCUIT AMPS	11
		MAXIMUM OVERCURRENT PROTECTION (AMPS)	28
		VOLTAGE / PHASE	208/1
	ACCESSORIES	LOW AMBIENT CONTROLS	YES
		COIL GUARDS	YES
		CAPACITY REDUCTION	VRF

ALL INDOOR UNITS SHALL HAVE A INTEGRAL CONDENSATE PUMP AND LIFT CONDENSATE HIGH ENOUGH ABOVE THE CEILING TO ALLOW FOR SLOPING OF CONDENSATE DRAIN PIPING.

PROVIDE WALL MOUNTED PROGRAMMABLE SPACE THERMOSTAT FOR EACH INDOOR UNIT. THERMOSTAT SHALL BE ELECTRONIC WALL TYPE WITH AUTOMATIC HEATING/COOLING CHANGEOVER AND 7-DAY SCHEDULING. ALSO PROVIDE CONTROL DEVICES REQUIRED FOR COMMUNICATION BETWEEN INDIVIDUAL SYSTEM COMPONENTS.

THE EQUIPMENT AND CONTROL SYSTEM SUBMITTALS SHALL BE PREPARED AND THEN SHALL BE SUBMITTED AS A SINGLE PACKAGE. THESE SUBMITTALS SHALL DEMONSTRATE THAT ALL OF THE LABOR, MATERIALS, COMPONENTS AND APPURTENANCES ARE PROVIDED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM.

HEATING CAPACITY BASED ON 70°F INDOOR AIR AND 47°F OUTDOORS.

PROVIDE MITSUBISHI SMART MA CONTROLLERS (SEE SPECIFICATIONS).

PROVIDE BACNET EMCS INTERFACE (SEE CONTROL SPECIFICATION 15650).

SPLIT SYSTEM INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD-SUPPLIED INTERCONNECTED WIRE.

SEE MATCHED SPLIT SYSTEMS / AIR HANDLING UNIT SCHEDULED FOR COMBINED CAPACITY WITH A DEGREE REFRIGERANT PIPING LOSS AND 95 DEGREE F AMBIENT.

PROVIDE FIELD INSTALLED LIQUID LINE DRIER AND SIGHT GLASS AT EACH OUTDOOR UNIT.

PROVIDE 5 YEAR WARRANTY ON COMPRESSORS.

AIR FILTER SCHEDULE

AHU NUMBER		AHU-1, 4, & 7	AHU-2, 5, & 8	AHU-3, 6, & 9	AHU-10
PRE-FILTER	FILTER TYPE	FLAT FRONT LOADING	FLAT SIDE LOADING	FLAT FRONT LOADING	FILTER MIXING BOX
	EFFICIENCY	60	30	60	30
FINAL FILTER	FILTER SIZE	(18) 24"x24"x4" PLEATED (6) 24"x12"x4" PLEATED	(3) 24"x24"x4" PLEATED (3) 24"x12"x4" PLEATED	(6) 24"x24"x4" PLEATED	2" PLEATED
	FILTER TYPE	FLAT FRONT LOADING	-	FLAT FRONT LOADING	-
FINAL FILTER	EFFICIENCY	HEPA (99.97%)	-	HEPA (99.97%)	-
	FILTER SIZE	(18) 24"x24"x12" (6) 24"x12"x12"	-	(6) 24"x24"x12"	-

CONTRACTOR SHALL FIELD VERIFY SIZES AND QUANTITY OF ALL FILTERS PRIOR TO ORDERING.

HEPA FILTERS SHALL BE GASKETED HIGH CAPACITY TYPE. CLEAN STATIC PRESSURE DROP ACROSS A 24"x24" HEPA FILTER SHALL NOT EXCEED 0.75" W.G. AT 1080 CFM.

HOT WATER BOILER SCHEDULE

BOILER NUMBER (B)	B-1
TYPE	NEARLY CONDENSING VERTICAL TUBE
MANUFACTURER	LAARS
MODEL NUMBER	OCH 1250
MINIMUM EFFICIENCY	86%
PRESSURE RATING (PSIG)	125
PRESSURE RELIEF VALVE SETTING (PSIG)	60
GPM	100
ENTERING WATER TEMP (°F)	160
LEAVING WATER TEMP (°F)	180
MAX PRESS DROP (FEET WG)	25
NATURAL GAS INPUT (CFH)	1250
GROSS OUTPUT (BTU/HR)	5200
VOLTAGE / PHASE	115/1
VENT DIAMETER (INCHES)	6" DIA FLUE & 6" DIA INTAKE

BOILER GAS TRAIN SHALL MEET CSD-1.

BOILER SHALL BE SUITABLE FOR 4"-10.5" W.C. NATURAL GAS INLET PRESSURE. PROVIDE ADDITIONAL PRESSURE REGULATORS IN GAS TRAIN TO SUIT INCOMING GAS PRESSURE AS NECESSARY. COORDINATE TRADES.

BOILER SHALL BE PROVIDED WITH MODULATING BURNER CONTROLS WITH A MINIMUM OF 5-1 TURNDOWN.

ELECTRIC DUCT HEATER SCHEDULE

HEATER NUMBER (EDH)	EDH-1, 2 & 3
KILOWATTS	48
CFM	21600
ENTERING AIR (°F)	68
LEAVING AIR (°F)	75
NUMBER OF CONTROL STEPS	FULL SCR
VOLTAGE / PHASE	460/3

HEATERS SHALL HAVE FULL SCR CONTROL TO MODULATE HEAT FROM 0 TO 100%

PUMP SCHEDULE

PUMP NUMBER (P)	CWP-1&2	HWP-1&2
MANUFACTURER	B & G	B & G
MODEL NUMBER	E-1510	E-1510
TYPE	END SUCTION FLEX COUPLED	END SUCTION FLEX COUPLED
SERVICE	CHILLED WATER	HOT WATER
SIZE	2 1/2 BB	1 1/2 BC
GPM	260	100
TDH (FEET WG)	70	75
MINIMUM EFFICIENCY (%)	77	62
RPM	1750	1750
MOTOR HORSEPOWER	10	5
VOLTAGE / PHASE	460/3	460/3

HVAC LEGEND

----	DUCTWORK, PIPING, EQUIPMENT TO DEMOLISHED
----	DUCTWORK, PIPING, EQUIPMENT TO REMAIN (ALSO USED FOR HIDDEN LINES)
NECK SIZE CFM	NEW DUCTWORK, PIPING, EQUIPMENT
NECK SIZE CFM	CEILING DIFFUSER
	RETURN OR EXHAUST AIR GRILLE OR REGISTER
	PREINSULATED FLEXIBLE DUCT
	TRANSITION IN SIZE
	MANUAL VOLUME DAMPER
	MANUAL VOLUME DAMPER (MVD)
	VAV BOX WITH HEATING COIL
	THERMOSTAT OR SPACE TEMPERATURE SENSOR
	FIRE DAMPER
	SPECIFIC NOTE
	POINT OF CONNECTION TO EXISTING
BR	BRANCH DUCT
CD	CEILING DIFFUSER
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
SR	SUPPLY REGISTER
EG	EXHAUST GRILLE
RG	RETURN GRILLE
OA	OUTSIDE AIR
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND REVIEW DRAWINGS FOR ALL DIVISIONS PRIOR TO BIDDING TO UNDERSTAND CONDITIONS. DUCT WORK MUST BE COORDINATED WITH LIGHTING AND SPECIAL SYSTEMS, SPRINKLER WORK, ELECTRICAL RACEWAYS, ELECTRICAL CABLE TRAYS, ROOF DRAINAGE SYSTEM, PLUMBING, CEILING AND STRUCTURE. DUCTWORK MUST BE ROUTED BETWEEN LIGHTING FIXTURES IN SOME LOCATIONS TO OBTAIN DESIGN CEILING HEIGHTS.

PIPING AND DUCTWORK MUST OFFSET AND TRANSITION TO SUIT FIELD CONDITIONS. THE DRAWINGS INDICATE THE DESIGN INTENT. HOWEVER, PIPING AND DUCTWORK ROUTING IS DIAGRAMMATIC. REQUIRED OFFSETS AND TRANSITIONS ARE NOT SHOWN. PREPARE DUCTWORK AND PIPING SHOP DRAWINGS (FOR CONTRACTOR'S COORDINATION - NO SUBMITTAL REQUIRED) AND PROVIDE OFFSETS, TRANSITIONS AND ADJUSTMENTS TO FULLY COORDINATE TRADES. FIELD VERIFY CLEARANCES BEFORE ORDERING DAMPERS AND OTHER AIR DISTRIBUTION DEVICES AND BEFORE FABRICATING DUCTWORK. ADJUST SIZES TO SUIT FIELD CONDITIONS.

2. SEE ARCHITECTURAL DRAWINGS FOR INTERIOR PARTITIONS WHICH EXTEND TO UNDERSIDE OF STRUCTURE ABOVE. CAULK DUCT PENETRATIONS THROUGH ABOVE CEILING PARTITIONS.

3. DUCT AND PIPING PENETRATION THROUGH PARTITIONS SHALL BE EFFECTIVELY SEALED TO SUIT EACH TYPE OF PARTITION.

4. THE HVAC SYSTEMS SHALL NOT BE OPERATED AT ANY TIME WITHOUT ALL FILTRATION IN PLACE. PROVIDE CLEAN FILTERS AT SUBSTANTIAL COMPLETION. TEMPORARY FILTER MEDIA SHALL BE INSTALLED ACROSS RETURN AND EXHAUST GRILLES AND REGISTERS IF SYSTEMS ARE OPERATED PRIOR TO OCCUPANCY. TEMPORARY FILTER MEDIA SHALL BE MERV 8. PRIOR TO STARTING THE UNIT, THE CONTRACTOR MUST OBTAIN THE OWNER'S CONSENT THAT IT IS ACCEPTABLE TO OWNER FOR THE CONTRACTOR TO UTILIZE THE EQUIPMENT DURING THE CONSTRUCTION PHASE. THE SYSTEMS SHALL NOT BE STARTED UNTIL THE JOBSITE IS THOROUGHLY CLEANED. WHENEVER FLOORS OR WALLS OR SANDED, THE HVAC SYSTEMS MUST BE DE-ENERGIZED AND THE AREAS MUST BE CLEANED BEFORE THE HVAC SYSTEMS ARE RESTARTED.

KEEP INTERIOR SURFACES OF DUCTWORK AND AIR HANDLING EQUIPMENT CLEAN THROUGHOUT THE CONSTRUCTION PERIOD. ACCESS DOORS TO AIR HANDLING UNITS SHALL NOT BE LEFT IN THE OPEN POSITION. INLET AND OUTLETS TO AIR HANDLING EQUIPMENT SHALL BE CAPPED WHEN STORED ON THE SITE AND SHALL REMAIN CAPPED UNTIL DUCTWORK IS CONNECTED.

OPEN ENDS OF DUCTWORK SHALL BE CAPPED WHEN DUCTWORK IS STORED ON THE SITE. INTERIOR AND EXTERIOR SURFACES OF EACH DUCT SECTION SHALL BE CLEANED JUST PRIOR TO INSTALLATION. THE OPEN ENDS AND OPEN TAPS OF EACH DUCT SECTION SHALL BE CAPPED IMMEDIATELY AFTER INSTALLATION. ALSO COVER GRILLES, REGISTERS AND DIFFUSERS IMMEDIATELY AFTER INSTALLATION.

5. INTERIOR SURFACES OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES SHALL BE PAINTED FLAT BLACK. ITEMS VISIBLE THROUGH AIR DISTRIBUTION DEVICES SHALL ALSO BE PAINTED FLAT BLACK.

6. SUPPORTS, HANGERS, BRACES, BOLTS, STRUCTURAL STEEL, AND OTHER MISCELLANEOUS ITEMS INSTALLED TO SUPPORT PIPING OR EQUIPMENT SHALL BE HOT DIPPED GALVANIZED. ALL FIELD WELDS AND ANY DAMAGE TO THE GALVANIZING SHALL BE COATED WITH TWO COATS OF COLD GALVANIZING COMPOUND.

7. PER THE NATIONAL ELECTRICAL CODE, DUCTWORK AND PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS OR OTHER ELECTRICAL EQUIPMENT. NATIONAL ELECTRICAL CODE SERVICE CLEARANCES SHALL BE MAINTAINED FOR ELECTRICAL EQUIPMENT. COORDINATE TRADES.

8. CEILING MOUNTED DEVICES SHALL BE CENTERED IN LAY-IN CEILING TILES AND SHALL BE LOCATED SYMMETRICALLY WITH ADJACENT CEILING MOUNTED DEVICES IN GYPSUM AND OTHER CEILING TYPES.

9. FIRE, FIRE/SMOKE, AND SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH THE DAMPER UL LISTING. PROVIDE DUCT, WALL AND CEILING ACCESS DOORS AT EACH DAMPER FOR INSPECTION AND SERVICE WERE FIRE/SMOKE RATED DAMPERS.

10. PROVIDE AN INCREASER OR REDUCER TO SUIT PIPE SIZES WHERE THE DRAWINGS INDICATE CONNECTING TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION, SERVICE AND SIZES PRIOR TO PERFORMING ANY WORK OR ORDERING ANY MATERIALS. USE PRESSURE GAUGES TO CONFIRM DIRECTION OF FLOW IN EXISTING PIPING SYSTEMS.

11. PROVIDE A TRANSITION TO SUIT DUCT SIZES WHERE THE DRAWINGS INDICATE CONNECTING TO EXISTING DUCTWORK. FIELD VERIFY EXACT LOCATION, SERVICE AND SIZES PRIOR TO PERFORMING ANY WORK OR ORDERING ANY MATERIALS. PROVIDE OFFSETS, TRANSITIONS, ETC. TO SUIT FIELD CONDITIONS.

12. PROVIDE OVAL TAPS AND OVAL-TO-ROUND TRANSITIONS WHERE HEIGHT OF TRUNK DUCT IS NOT ADEQUATE FOR THE REQUIRED TAP SIZE.

13. SOME MECHANICAL ROOMS WILL BE USED AS A RETURN AIR PLENUM. IN ACCORDANCE WITH NFPA 90A, THERE SHALL BE NO COMBUSTIBLE MATERIALS EXPOSED IN THE AIR STREAM. COVER ANY COMBUSTIBLE MATERIALS WITH GALVANIZED SHEET METAL WITH DULLED CORNERS. THE ROOM SHALL BE EFFECTIVELY SEALED FROM ADJACENT AREAS. FLOOR DRAINS ARE PROHIBITED IN PLENUM AREAS.

14. SERVICES TO THE ADJACENT OCCUPIED AREA ARE TO BE KEPT IN OPERATION AT ALL TIMES, EXCEPT WHEN SPECIFIC PERMISSION IS GIVEN TO DO OTHERWISE. BEFORE ANY SERVICES ARE INTERRUPTED, ARRANGEMENTS SHALL BE MADE WITH THE OWNER TO DO THIS WORK AT A TIME MOST CONVENIENT TO THEM. THIS PROCEDURE MAY INVOLVE WORKING AT NIGHT, ON SATURDAY OR SUNDAY, OR AT A SPECIAL TIME OF THE YEAR, WITH THE LENGTH OF TIME OF THE INTERRUPTION AGREED UPON IN ADVANCE. ONCE ANY SERVICE IS INTERRUPTED, WORK TO RESTORE THE SERVICE IN THE SHORTEST POSSIBLE TIME SHALL BE ON A CONTINUOUS BASIS UNLESS TEMPORARY SERVICES IS PROVIDED OR APPROVAL IS OBTAINED FROM THE OWNER TO DO OTHERWISE. TEMPORARY SERVICE SHALL BE WORK OF THIS DIVISION.

15. THERE SHALL BE NO FLEX DUCTWORK ROUTED THROUGH PARTITIONS.

16. PROVIDE CAPS OR PLUGS IN ALL MANUAL DRAINS AND VENTS.

17. OFFSET PLUMBING VENTS TO MAINTAIN A MINIMUM 15" HORIZONTAL SEPARATION BETWEEN PLUMBING VENTS AND OUTSIDE AIR INTAKES. ALSO MAINTAIN A MINIMUM OF 15" HORIZONTAL SEPARATION BETWEEN EXHAUST FANS AND OUTSIDE AIR INTAKES.

18. REPAIR ALL PIPING, DUCT, AND EQUIPMENT INSULATION WHICH IS DISTURBED BY THE WORK. INSULATION MATERIALS AND THICKNESS TO MATCH EXISTING.

19. SITE-STORED ITEMS ARE TO BE PACKAGED, SEALED WEATERTIGHT, CAPPED AND STACKED TO PREVENT DAMAGE TO THE MATERIALS.

20. THROUGHOUT THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL PROTECT THE EXISTING ROOFING SYSTEM IN THE AREA OF WORK WITH PLYWOOD. ANY DAMAGE TO THE ROOFING DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.

21. ALL ROOFING MODIFICATIONS AND REPAIRS SHALL BE IN STRICT ACCORDANCE WITH THE ROOFING MANUFACTURES REQUIREMENTS AND RECOMMENDATIONS.

22. THE EXISTING DUCTWORK SHOWN IS BASED ON ORIGINAL CONSTRUCTION DRAWINGS. PRIOR TO PERFORMING ANY WORK OR ORDERING ANY MATERIALS, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL REPORT ANY EXISTING FIELD CONDITIONS WHICH CONFLICT WITH THE NEW WORK PRIOR TO PROCEEDING.

23. PRIOR TO PERFORMING ANY WORK AND PRIOR TO ORDERING ANY MATERIALS, THE CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE SIZES, SERVICE, AND DIRECTION OF FLOW AT THE POINTS OF CONNECTION TO EXISTING PIPING SYSTEMS. CONTRACTOR SHALL LABEL THE EXISTING PIPING AND MARK DIRECTION OF FLOW. PROVIDE INCREASERS/REDUCERS AS NECESSARY AT THE POINTS OF CONNECTION.

24. PRIOR TO PERFORMING ANY WORK AND PRIOR TO ORDERING ANY MATERIALS, THE CONTRACTOR SHALL FIELD VERIFY EXISTING DUCT SIZES AND SERVICE AT THE POINTS OF CONNECTION TO EXISTING SYSTEMS. PROVIDE TRANSITIONS AS NECESSARY AT THE POINTS OF CONNECTION.

25. WHERE DUCTWORK IS SHOWN CONNECTED TO EXTERIOR LOUVERS, PROVIDE A MINIMUM 12" DEEP GALVANIZED PLENUM AT LOUVER AND CONNECT DUCT THERETO.

AIR COOLED CHILLER SCHEDULE

CHILLER NUMBER		CH-1 & 2
MANUFACTURER		TRANE
MODEL NUMBER		RTAF-115
REFRIGERANT		R-513A
OPERATING WEIGHT (LBS)		9000
IPLV (EER)		15.8 (10.2)
CAPACITY (TON)		108
EVAPORATOR DATA	GPM	260
	ENTERING WATER TEMP (°F)	54
	LEAVING WATER TEMP (°F)	44
	FOULING FACTOR	.00010
	MAX PRESS DROP (FEET WG)	15
COMPRESSOR DATA	NUMBER / RLA (EACH)	2/82
	VOLTAGE / PHASE	460/3
CONDENSER / DATA	NUMBER / FLA (EACH)	10/2.5
	AMBIENT TEMPERATURE (°F)	95
ACCESSORIES	LOW AMBIENT TO °F	YES
	TWO INDEPENDENT REFRIG CIRC	YES
	NEOPRENE ISOLATORS	YES
	FLOW SWITCH	YES
	EMCS INTERFACE	YES - w/ RESET
	SUCTION SERVICE VALVES	YES
	CONTROL POWER TRANSFORMER	YES
	STEPS OF UNLOADING	INFINITE (100 - 15%)
UNIT ELECTRICAL	MAXIMUM CIRCUIT AMPS	215
	MAX FUSE SIZE (AMPS)	300

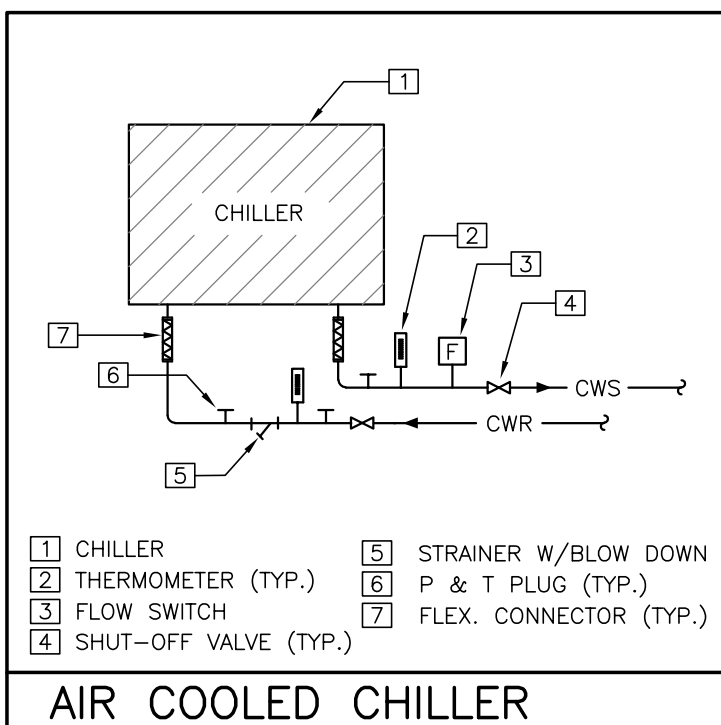
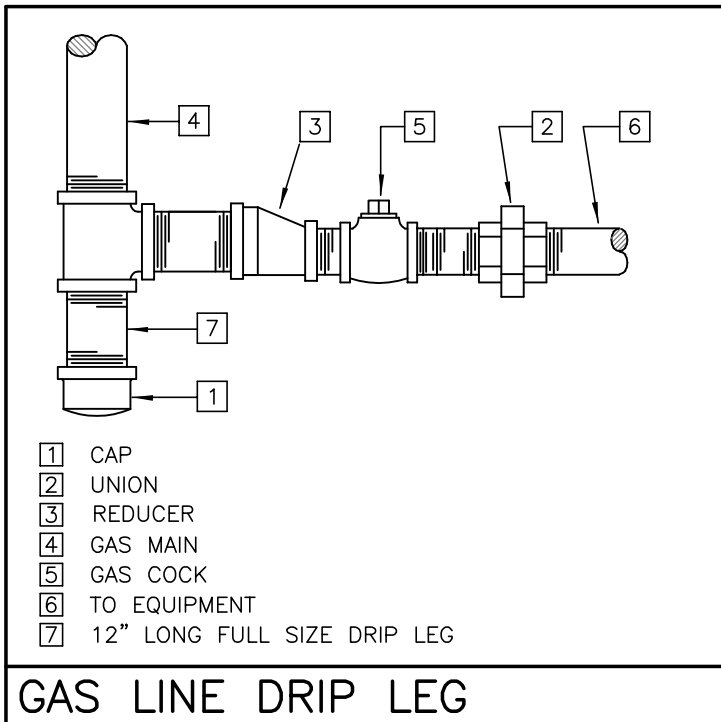
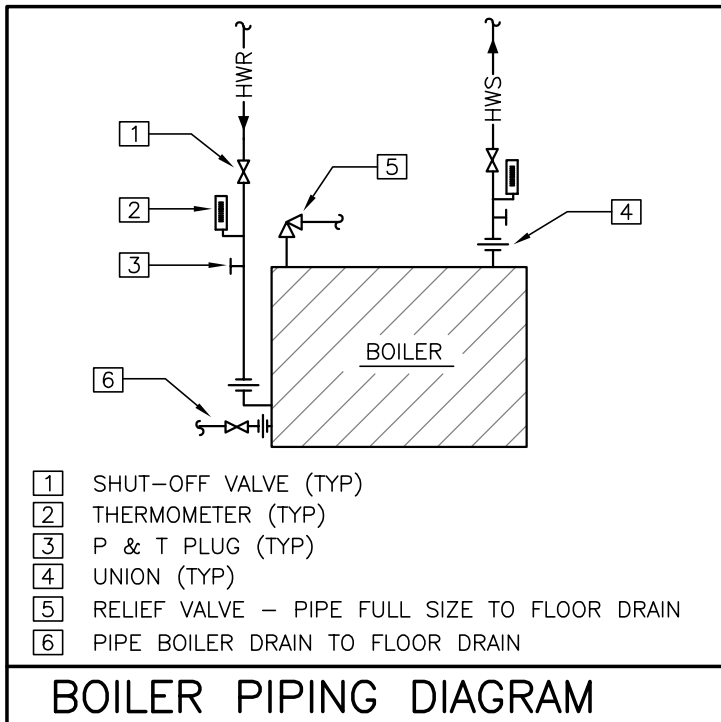
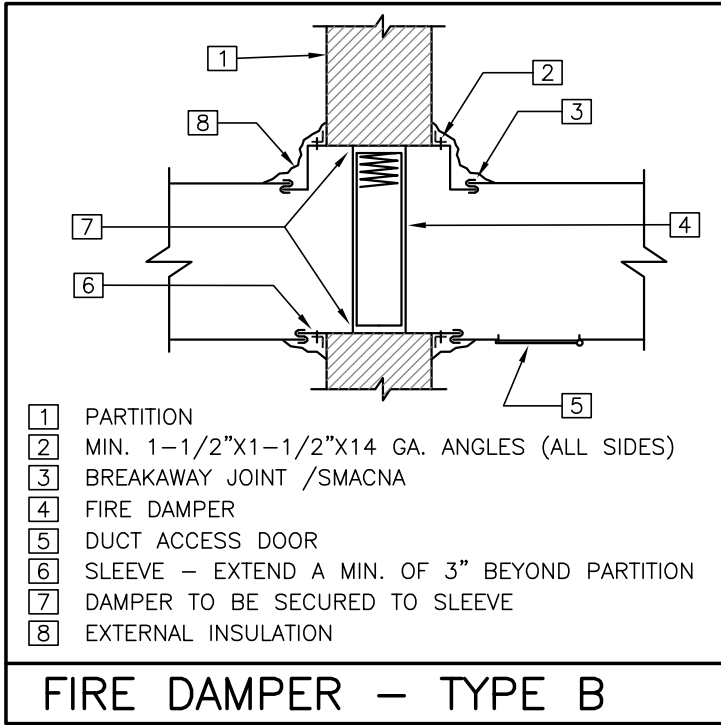
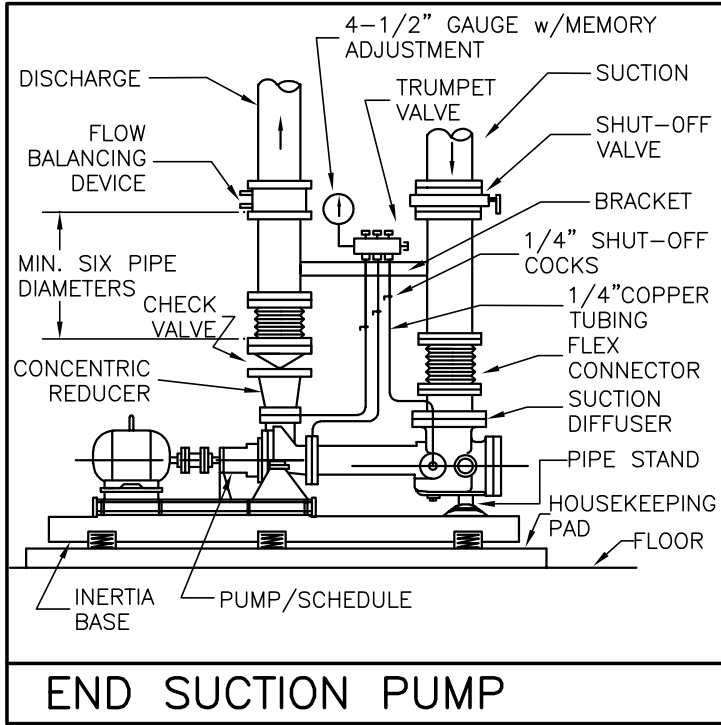
CHILLER SHALL BE FACTORY WIRED FOR SINGLE POINT 460 VOLT / 3 PHASE ELECTRICAL POWER CONNECTION EXCEPT THAT ONE 115 VOLT, 15 AMP CIRCUIT IS TO BE PROVIDED FOR EVAPORATOR HEAT TAPE.

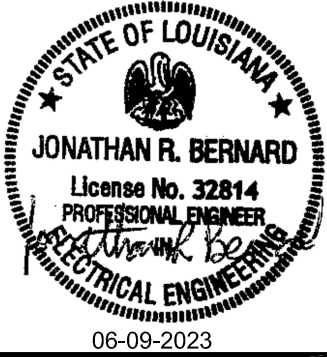
IPLV SHALL BE ARI CERTIFIED.

PROVIDE ARCHITECTURAL LOUVERS COVERING CONDENSER COILS AN SERVICE AREA BELOW COILS.

PROVIDE 5 YEAR COMPRESSOR PARTS WARRANTY.

PROVIDE FIELD INSTALLED SOUND ATTENUATION PACKAGE FOR COMPRESSORS.





NV ASSOCIATES, INC.
ENGINEERS-ARCHITECTS-PLANNERS
PROGRAM & PROJECT MANAGERS
2700 LAKE VILLA DRIVE
METairie, LOUISIANA 70002
PHONE: (504) 885-0500
FAX: (504) 885-0505

JEFFERSON PARISH SHERIFF'S OFFICE
Warehouse Tornado Repairs
1900 8th. St., Harvey, LA 70058

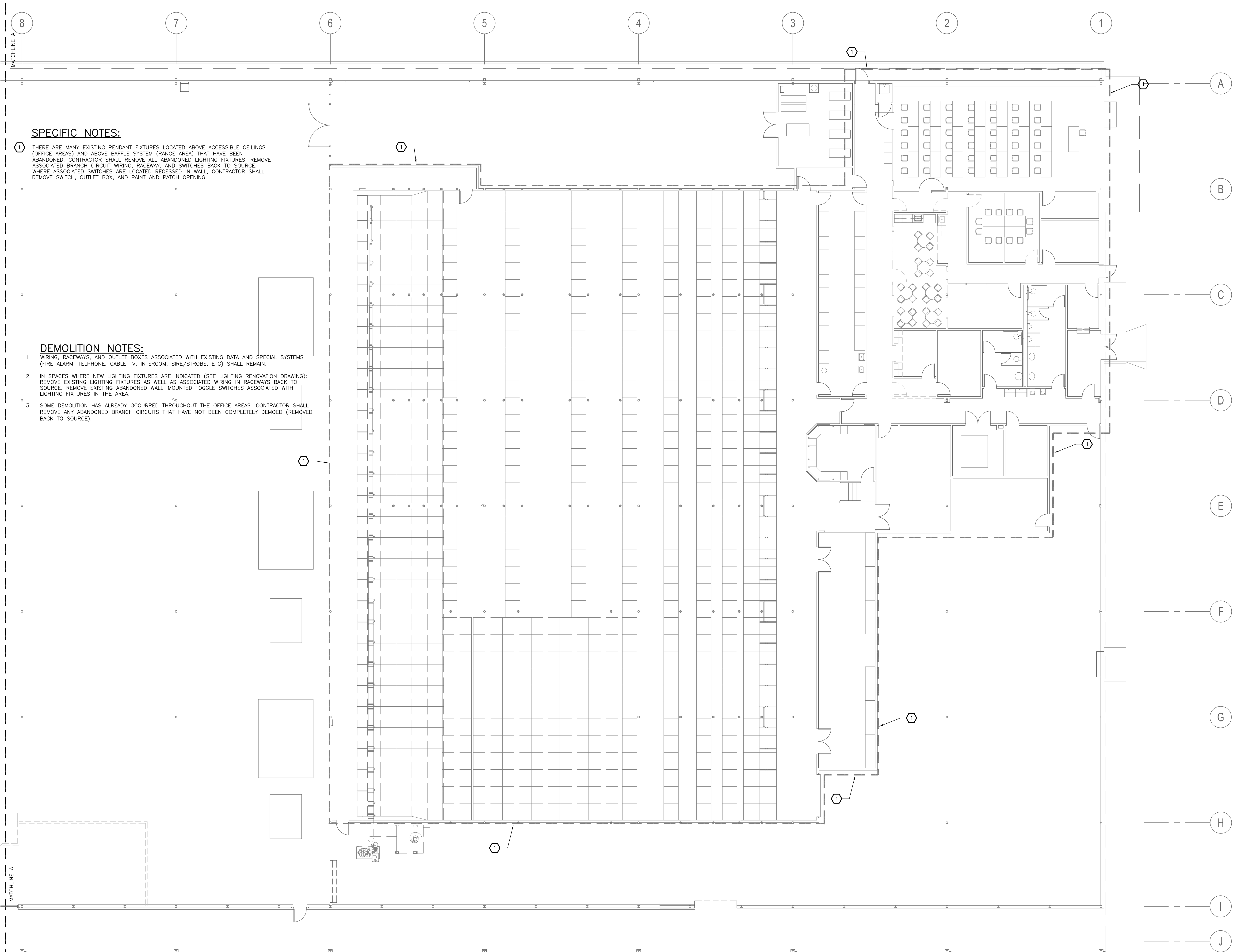
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N-Y Proj No: 21023.01
Date: **June 9, 2023**
Revised:

DRAWN BY: **JC**
CHECKED BY: **JB**
DESIGNED BY: **SL**

ED-1
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PROJECT No. 4268



SPECIFIC NOTES:

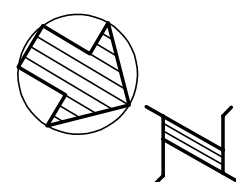
1. THERE ARE MANY EXISTING PENDANT FIXTURES LOCATED ABOVE ACCESSIBLE CEILINGS (OFFICE AREAS) AND ABOVE BAFFLE SYSTEM (RANGE AREA) THAT HAVE BEEN ABANDONED. CONTRACTOR SHALL REMOVE ALL ABANDONED LIGHTING FIXTURES, REMOVE ASSOCIATED BRANCH CIRCUIT WIRING, RACEWAY, AND SWITCHES BACK TO SOURCE. WHERE ASSOCIATED SWITCHES ARE LOCATED RECESSED IN WALL, CONTRACTOR SHALL REMOVE SWITCH, OUTLET BOX, AND PAINT AND PATCH OPENING.

DEMOLITION NOTES:

1. WIRING, RACEWAYS, AND OUTLET BOXES ASSOCIATED WITH EXISTING DATA AND SPECIAL SYSTEMS (FIRE ALARM, TELEPHONE, CABLE TV, INTERCOM, SIRE/STROBE, ETC) SHALL REMAIN.
2. IN SPACES WHERE NEW LIGHTING FIXTURES ARE INDICATED (SEE LIGHTING RENOVATION DRAWING): REMOVE EXISTING LIGHTING FIXTURES AS WELL AS ASSOCIATED WIRING IN RACEWAYS BACK TO SOURCE. REMOVE EXISTING ABANDONED WALL-MOUNTED TOGGLE SWITCHES ASSOCIATED WITH LIGHTING FIXTURES IN THE AREA.
3. SOME DEMOLITION HAS ALREADY OCCURRED THROUGHOUT THE OFFICE AREAS. CONTRACTOR SHALL REMOVE ANY ABANDONED BRANCH CIRCUITS THAT HAVE NOT BEEN COMPLETELY DEMOED (REMOVED BACK TO SOURCE).

**ELECTRICAL
PARTIAL FIRST FLOOR DEMOLITION PLAN**

3/32" = 1'-0"



GVA PROJECT No
4268
CAD FILE
GVAE_DEMO
LAST REVISION
04-19-23
PLOT DATE
04-19-23
PLOT SCALE
1=1

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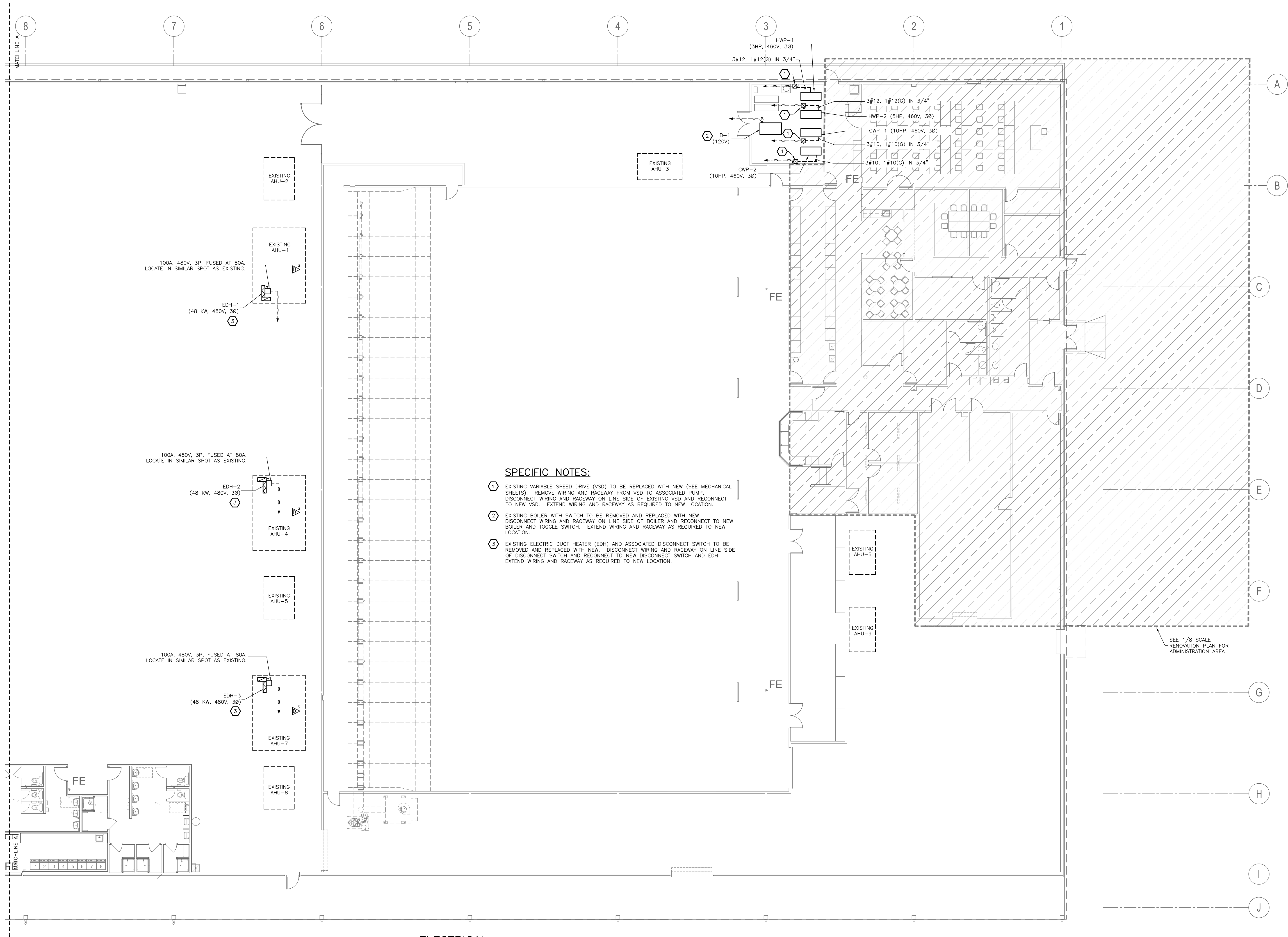
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Date: **June 9, 2023**
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E-1

Sheet of

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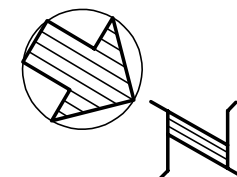


SPECIFIC NOTES:

- EXISTING VARIABLE SPEED DRIVE (VSD) TO BE REPLACED WITH NEW (SEE MECHANICAL SHEETS). REMOVE WIRING AND RACEWAY FROM VSD TO ASSOCIATED PUMP. DISCONNECT WIRING AND RACEWAY ON LINE SIDE OF EXISTING VSD AND RECONNECT TO NEW VSD. EXTEND WIRING AND RACEWAY AS REQUIRED TO NEW LOCATION.
- EXISTING BOILER WITH SWITCH TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT WIRING AND RACEWAY ON LINE SIDE OF BOILER AND RECONNECT TO NEW BOILER AND TOGGLE SWITCH. EXTEND WIRING AND RACEWAY AS REQUIRED TO NEW LOCATION.
- EXISTING ELECTRIC DUCT HEATER (EDH) AND ASSOCIATED DISCONNECT SWITCH TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT WIRING AND RACEWAY ON LINE SIDE OF DISCONNECT SWITCH AND RECONNECT TO NEW DISCONNECT SWITCH AND EDH. EXTEND WIRING AND RACEWAY AS REQUIRED TO NEW LOCATION.

ELECTRICAL
PARTIAL FIRST FLOOR RENOVATION PLAN

3/32" = 1'-0"



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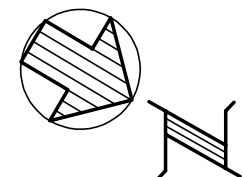
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E-2

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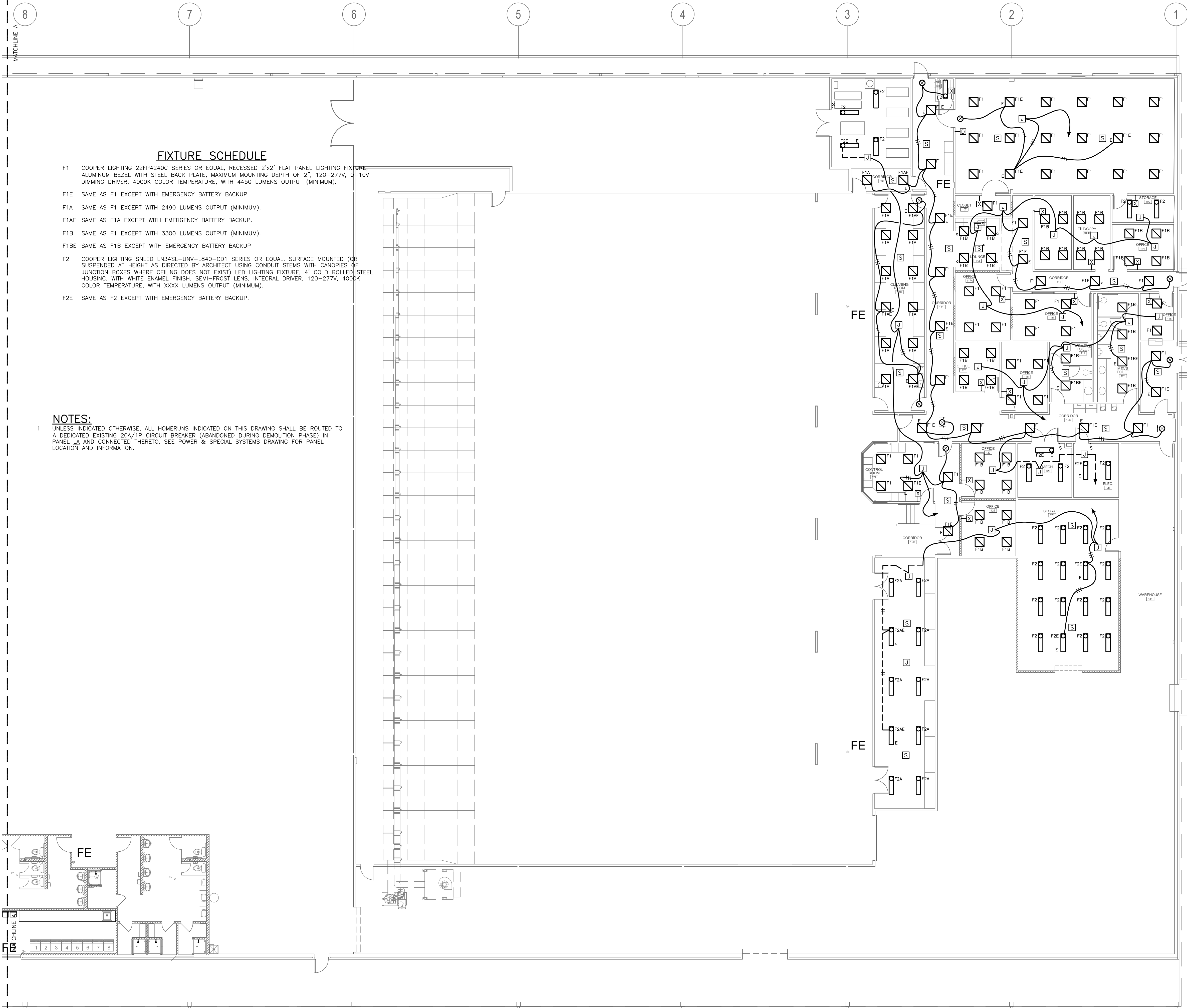
LIGHTING
PARTIAL FIRST FLOOR PLAN
3/32" = 1'-0"



GVA PROJECT No
4268
CAD FILE
E_ADMIN_LIGHTING_PLN
LAST REVISION
04-19-23
PLOT DATE
04-19-23
PLOT SCALE
1=1

NOTES:
1 UNLESS INDICATED OTHERWISE, ALL HOMERUNS INDICATED ON THIS DRAWING SHALL BE ROUTED TO A DEDICATED EXISTING 20A/1P CIRCUIT BREAKER (ABANDONED DURING DEMOLITION PHASE) IN PANEL LA AND CONNECTED THERETO. SEE POWER & SPECIAL SYSTEMS DRAWING FOR PANEL LOCATION AND INFORMATION.

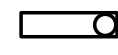
- FIXTURE SCHEDULE**
- F1 COOPER LIGHTING 22FP4240C SERIES OR EQUAL, RECESSED 2'x2' FLAT PANEL LIGHTING FIXTURE, ALUMINUM BEZEL WITH STEEL BACK PLATE, MAXIMUM MOUNTING DEPTH OF 2", 120-277V, 0-10V DIMMING DRIVER, 4000K COLOR TEMPERATURE, WITH 4450 LUMENS OUTPUT (MINIMUM).
- F1E SAME AS F1 EXCEPT WITH EMERGENCY BATTERY BACKUP.
- F1A SAME AS F1 EXCEPT WITH 2490 LUMENS OUTPUT (MINIMUM).
- F1AE SAME AS F1A EXCEPT WITH EMERGENCY BATTERY BACKUP.
- F1B SAME AS F1 EXCEPT WITH 3300 LUMENS OUTPUT (MINIMUM).
- F1BE SAME AS F1B EXCEPT WITH EMERGENCY BATTERY BACKUP.
- F2 COOPER LIGHTING SNLED LN34SL-UNV-L840-CD1 SERIES OR EQUAL, SURFACE MOUNTED (OR SUSPENDED AT HEIGHT AS DIRECTED BY ARCHITECT USING CONDUIT STEMS WITH CANOPIES OF JUNCTION BOXES WHERE CEILING DOES NOT EXIST) LED LIGHTING FIXTURE, 4' COLD ROLLED STEEL HOUSING, WITH WHITE ENAMEL FINISH, SEMI-FROST LENS, INTEGRAL DRIVER, 120-277V, 4000K COLOR TEMPERATURE, WITH XXXX LUMENS OUTPUT (MINIMUM).
- F2E SAME AS F2 EXCEPT WITH EMERGENCY BATTERY BACKUP.



SYMBOL SCHEDULE



LED FIXTURE, RECESSED.



LED FIXTURE, SURFACE MOUNTED OR SUSPENDED.



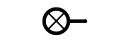
EXIT LIGHT, TOP MOUNTED, SINGLE FACE (SURFACE OR SUSPENDED).



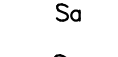
SAME AS EXCEPT WITH DIRECTIONAL ARROW.



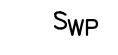
SAME AS EXCEPT DOUBLE FACE WITH DIRECTIONAL ARROWS.



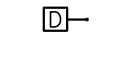
EXIT LIGHT, BACK MOUNTED, SINGLE FACE (SURFACE). MOUNT AT HEIGHT AS DIRECTED.



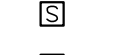
20A/1P WALL SWITCH (OR ON/OFF CONTROL STATION WHERE INDICATED). SUBSCRIPT DENOTES OUTLET CONTROLLED.



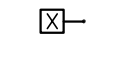
SAME AS S EXCEPT WEATHERPROOF. SUBSCRIPT DENOTES OUTLET CONTROLLED.



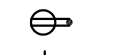
DIMMING CONTROL STATION, WALL MOUNTED. SUBSCRIPT DENOTES OUTLET CONTROLLED.



AUTOMATIC LIGHTING SHUTOFF DEVICE, CEILING MOUNTED



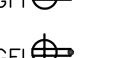
AUTOMATIC LIGHTING SHUT-OFF DEVICE, WITH INTEGRAL ON/OFF SWITCH.



20A/2P, 3-WIRE, 125V, GROUNDING TYPE DUPLEX RECEPTACLE, NEMA 5-20R.



SAME AS EXCEPT MOUNTED ABOVE COUNTER AT HEIGHT AS DIRECTED.



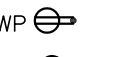
SAME AS EXCEPT WITH GROUND FAULT INTERRUPTER.



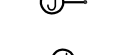
SAME AS GFI EXCEPT MOUNTED ABOVE COUNTER AT HEIGHT AS DIRECTED.



SAME AS EXCEPT MOUNTED AS REQUIRED FOR ELECTRIC WATER COOLER.



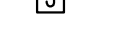
SAME AS GFI EXCEPT WEATHERPROOF.



JUNCTION BOX 4 11/16" OR LESS, WALL MOUNTED.



JUNCTION BOX 4 11/16" OR LESS, LOCATED IN ACCESSIBLE PLACE ABOVE REMOVABLE CEILING AND/ OR UNDERSIDE OF STRUCTURE WHEN NO CEILING.



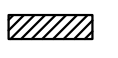
SAME AS EXCEPT PROVIDE WIRING IN RACEWAY TO EACH LIGHTING FIXTURE IN THIS ROOM AS WELL AS TO CONTROL DEVICES, SWITCHES, ETC. USING OTHER OUTLET BOXES AS SPECIFIED. WHERE WIRING IN RACEWAY TERMINATED AT JUNCTION BOX IS INDICATED TO BE EXPOSED, THEN WIRING/RACEWAY IN THIS SPACE TO LIGHTING FIXTURES AND CONTROLS SHALL ALSO BE EXPOSED.



JUNCTION BOX, LARGER THAN 4 11/16".



LIGHTING PANELBOARD.



DISTRIBUTION PANELBOARD.



SAFETY SWITCH.



MAGNETIC STARTER. (FURNISHED UNDER DIVISION 15).



VOICE/DATA OUTLET WITH 1" CONCEALED RACEWAY STUBBED UP ABOVE ACCESSIBLE CEILING AND BUSHED. WIRING SHALL BE PROVIDED PER SPECIFICATIONS.



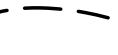
FIRE ALARM CONTROL PANEL.



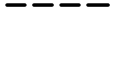
AIR-STREAM SMOKE DETECTOR, "R" INDICATES IN SUPPLY AIR-STREAM, "S" INDICATES IN SUPPLY AIR-STREAM.



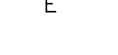
WIRING IN RACEWAY CONCEALED OVERHEAD OR IN WALLS (CROSSBARS DENOTE NUMBER OF CONDUCTORS WHEN MORE THAN TWO). REQUIRED GREEN EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN AS A CROSSBAR. ARROWS INDICATE NUMBER OF CIRCUITS.



WIRING IN RACEWAY CONCEALED IN OR UNDER FLOOR OR UNDERGROUND.



WIRING IN RACEWAY RUN EXPOSED.



"E" ADJACENT TO A DEVICE INDICATES THAT IT HAS EMERGENCY BATTERY PACK (CONNECTED TO UNSWITCHED CIRCUIT).

SPECIFIC NOTES:

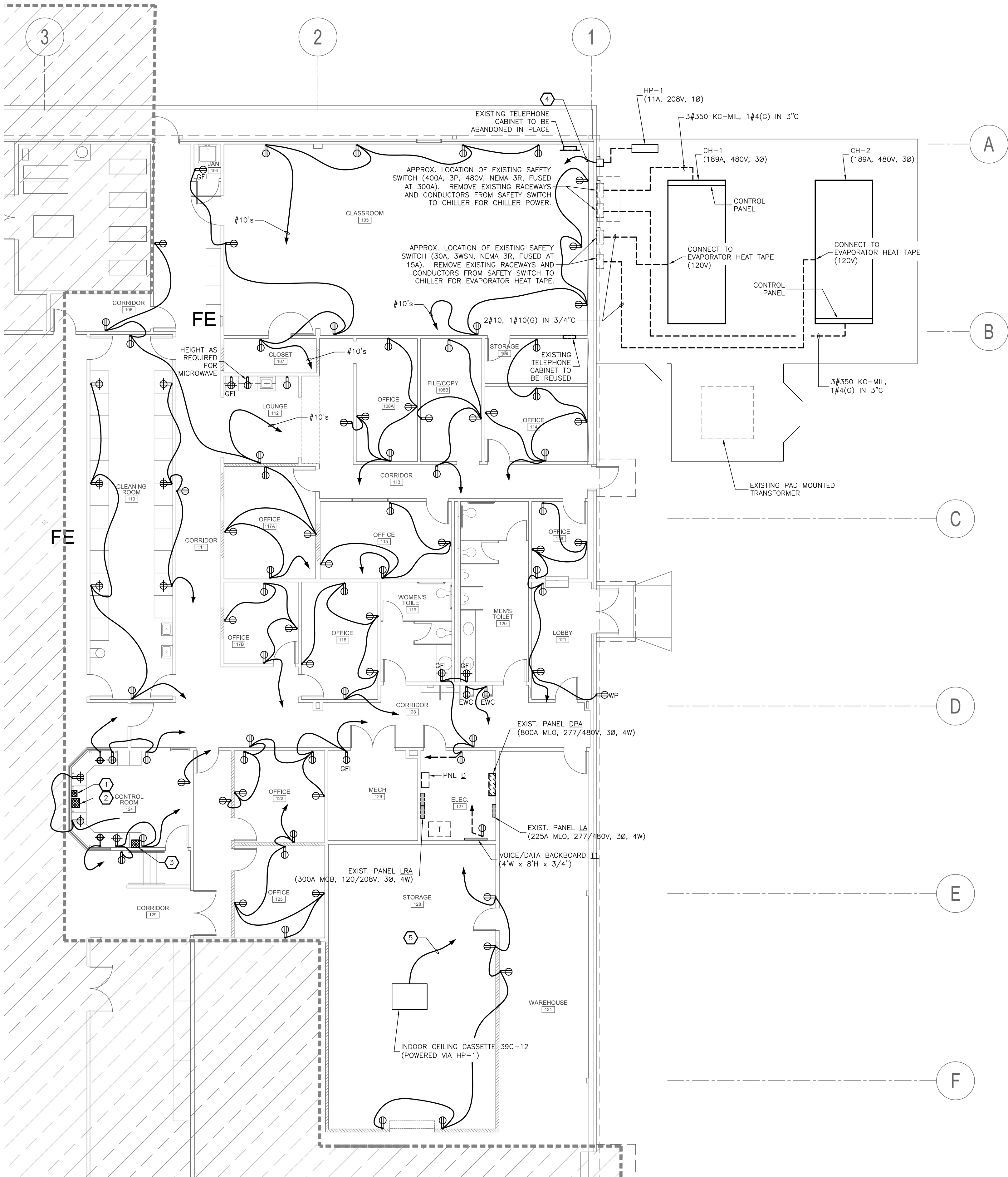
- 10"x8"x4" JUNCTION BOX TO BE LOCATED AS DIRECTED FOR RUNNER. TERMINATE EXISTING 1 1/2" EMT RACEWAY ROUTED TO THIS LOCATION TO BOX. PROVIDE ADDITIONAL 1 1/2" EMT AS REQUIRED TO SUIT NEW CONSTRUCTION.
- 14"x12"x6" JUNCTION BOX TO BE LOCATED AS DIRECTED FOR RUNNER. TERMINATE EXISTING 2" EMT RACEWAY ROUTED TO THIS LOCATION TO BOX. PROVIDE ADDITIONAL 2" EMT AS REQUIRED TO SUIT NEW CONSTRUCTION.
- 12"x12"x4" JUNCTION BOX TO BE LOCATED AS DIRECTED FOR SIREN/STROBE. TERMINATE EXISTING 1 1/2" EMT RACEWAY ROUTED TO THIS LOCATION TO BOX. PROVIDE ADDITIONAL 1 1/2" EMT AS REQUIRED TO SUIT NEW CONSTRUCTION.
- TO 30A/2P CIRCUIT BREAKER TO BE PROVIDED IN PANEL LBA. USE #10's FOR ENTIRE CIRCUIT. EXISTING ABANDONED BREAKERS SHALL BE REMOVED/REARRANGED AS REQUIRE TO SUIT NEW 30A/2P CIRCUIT BREAKER.
ASSOCIATED SAFETY SWITCH (LOCATED ADJACENT TO HP-1) SHALL BE NEMA 3R, 30A, 2P, 208V, FUSED @ 25A.
- INDOOR UNIT IS POWERED AND CONTROLLED VIA ASSOCIATED OUTDOOR UNIT. PROVIDE WIRING IN RACEWAY PER MANUFACTURER [APPROX. #12 & 1#12(G) IN 3/4"] FROM INDOOR UNIT DISCONNECT SWITCH TO OUTLET IN ASSOCIATED OUTDOOR UNIT AND CONNECT THERETO.

SPECIAL SYSTEMS NOTES:

- 1 WIRING, RACEWAYS, AND OUTLET BOXES ASSOCIATED WITH EXISTING DATA AND SPECIAL SYSTEMS (FIRE ALARM, TELEPHONE, CABLE TV, INTERCOM, SIRE/STROBE, ETC) SHALL REMAIN. THE JEFFERSON PARISH SHERIFF'S OFFICE WILL BE PROVIDING NEW DATA OUTLETS, WIRING, AND RACEWAYS REQUIRED. CONTRACTOR SHALL COORDINATE THESE INSTALLATION TIMES, DATES, AND LOCATIONS WITH JEFFERSON PARISH IT DEPARTMENT SO AS TO LIMIT INTERRUPTIONS TO THEIR WORK.

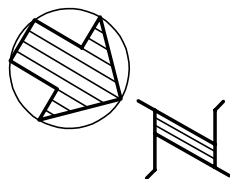
NOTES:

- 1 UNLESS INDICATED OTHERWISE, ALL HOMERUNS INDICATED ON THIS DRAWING SHALL BE ROUTED TO A DEDICATED EXISTING 20A/1P CIRCUIT BREAKER (ABANDONED DURING DEMOLITION PHASE) IN PANEL LBA AND CONNECTED THERETO.



POWER & SPECIAL SYSTEMS PARTIAL FIRST FLOOR RENOVATION PLAN

1/8" = 1'-0"



I - ELECTRICAL GENERAL

SUMMARY

- A. FURNISH ALL LABOR, TOOLS, MATERIALS, FIXTURES, EQUIPMENT, ACCESSORIES, TRANSPORTATION, ETC., REQUIRED FOR COMPLETE ELECTRICAL LIGHTING AND POWER SYSTEMS, COMPLETE WITH NECESSARY AUXILIARIES AS INDICATED ON DRAWINGS AND AS HEREINAFTER SPECIFIED.
- B. THE GENERAL CONDITIONS OF THE CONTRACT AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL APPLY TO ALL WORK UNDER THIS SECTION. SEPARATION OF SPECIFICATIONS INTO SECTIONS IS FOR CONVENIENCE ONLY AND IS NOT INTENDED TO ESTABLISH LIMITS OF WORK OR LIABILITY.
- C. IN GENERAL, THE WORK SHALL CONSIST OF THE FOLLOWING INSTALLATIONS:
- 1. CONDUCTORS, SWITCHES AND COMPLETE SYSTEMS AS SHOWN ON THE DRAWINGS.
 - 2. POWER WIRING TO ALL MECHANICAL AND AIR CONDITIONING EQUIPMENT, AS SHOWN ON THE DRAWINGS.
 - 3. ELECTRICAL LIGHTING AND APPLIANCE SYSTEMS COMPLETE WITH WIRING, FIXTURES AND LAMPS.
 - 4. WIRING AND CONNECTIONS FOR EQUIPMENT INDICATED ON ARCHITECTURAL DRAWINGS.
 - 5. ADDITION OF NEW FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS SHALL BE CONNECTED TO EXISTING FIRE ALARM SYSTEM.
 - 6. RACEWAY AND CONDUIT FOR THE TEL/DATA SYSTEMS AS SHOWN ON THE DRAWINGS
- D. PRIOR TO SUBMITTING QUOTATION FOR ELECTRICAL WORK, CONTRACTOR SHALL VISIT AND EXAMINE THE JOB SITE IN ORDER TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO THE WORK TO BE PERFORMED THEREON. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO BE SO INFORMED.
- E. IT IS THE INTENT OF THESE SPECIFICATIONS THAT IN ALL PARTICULARS, THE MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE BEST PRACTICE AND THAT THE EQUIPMENT AND ACCESSORIES AS FURNISHED AND INSTALLED SHALL BE COMPLETE AND READY TO OPERATE.
- F. ALL MATERIALS SHALL BE NEW, EXCEPT WHERE OTHERWISE INDICATED, AND SHALL CONFORM TO THE STANDARDS OF UNDERWRITERS' LABORATORIES IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION.

- A. THE DRAWINGS SHOWING THE LAYOUT OF ELECTRICAL WORK INDICATE APPROXIMATE LOCATION OF THE OUTLETS, RECEPTACLES, PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT, UNLESS NOTED OTHERWISE. THE RUNS OF FEEDERS AND BRANCHES ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW THE EXACT ROUTING OF CONDUITS. THE FINAL DETERMINATION OF THE ROUTING SHALL BE GOVERNED BY STRUCTURAL CONDITIONS, OTHER CONDITIONS AND OTHER CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL CONSULT ALL DRAWINGS WHICH MAY AFFECT THE LOCATION OF ANY OUTLET, APPARATUS, OR EQUIPMENT TO AVOID POSSIBLE INTERFERENCE, AND ANY REASONABLE CHANGES IN THE LOCATION OF AN OUTLET, APPARATUS OR EQUIPMENT, UP TO THE TIME OF ROUGH-IN, IS RESERVED BY THE ARCHITECT, AND ANY MINOR DEVIATIONS SHALL BE MADE WITHOUT ADDITIONAL COST. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL EQUIPMENT SUCH AS JUNCTION BOXES, PANELBOARDS, SWITCHES, AND OTHER APPARATUS, THAT MAY REQUIRE MAINTENANCE FROM TIME TO TIME, ARE MADE EASILY ACCESSIBLE. ALTHOUGH THE LOCATION OF THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS, THE CONSTRUCTION MAY DISCLOSE THE FACT THAT SUCH LOCATION DOES NOT MAKE ITS POSITION READILY ACCESSIBLE, IN WHICH CASE THE ELECTRICAL CONTRACTOR SHALL CALL THE ARCHITECT'S ATTENTION TO THE CONDITION BEFORE ADVANCING THE CONSTRUCTION TO A POINT WHERE A CHANGE IN LOCATION WOULD REQUIRE ADDITIONAL COST.

MEASUREMENTS

BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES NECESSARY. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE STRUCTURAL CONDITIONS, WALLS, FURRING AND CHASE LOCATIONS AND ROOM FINISHES AND SHALL MAKE ACTUAL MEASUREMENTS ON THE JOB SO THAT THE PANELBOARDS, SWITCHES, RECEPTACLES, LIGHTING FIXTURES AND ACCESSORIES SHALL FIT.

LAWS, CODES AND PERMITS

- A. LATEST EDITION OF THE FOLLOWING LISTED ESTABLISHED STANDARDS CONSTITUTE PART OF THE SPECIFICATION REQUIREMENTS.
- NATIONAL ELECTRICAL CODE, (NFPA NO. 70-2008)
APPLICABLE STATE REQUIREMENTS
UNDERWRITERS' LABORATORIES (UL)
ELECTRICAL TESTING LABORATORIES (ETL)
AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
- B. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY ALL FEES INCIDENTAL TO THE CARRYING ON OF THE ELECTRICAL WORK. THIS CONTRACTOR SHALL GIVE NOTICE TO THE ARCHITECT IN AMPLE TIME FOR THE WORK TO BE INSPECTED AND APPROVED AS IT PROGRESSES AND NO WORK SHALL BE CONCEALED UNTIL INSPECTED AND APPROVED BY ARCHITECT. SHOULD THE PLANS OR THESE SPECIFICATIONS IN ANY WAY CONFLICT WITH THE CODE, OR STATE RULES, THESE LATTER ARE TO BE FOLLOWED, WITHOUT EXPENSE TO THE OWNER, BUT THE ARCHITECT SHALL BE NOTIFIED OF THIS CONDITION AND APPROVAL SECURED BEFORE CHANGES ARE MADE.
- C. ALL ELECTRICAL WIRING SHALL CONFIRM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2009 EDITION AS AMENDED BY THE NATIONAL ELECTRICAL CODE (NFPA - 70-2008) AND SUCH OTHER APPLICABLE SAFETY CODES AS ENFORCED BY THE SAFETY & PERMITS DEPARTMENT (NEW ORLEANS AMENDMENTS TO THE INTERNATIONAL BUILDING CODE 2009 EDITION.
- D. UPON COMPLETION OF THE INSTALLATION, A CERTIFICATE OF APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION THEREON SHALL BE FURNISHED TO THE OWNER, AND ALL FEES PAID BY THE CONTRACTOR. THE CERTIFICATE OF APPROVAL SHALL NOT RELEASE THE CONTRACTOR FROM ANY DEFECTS TO MATERIAL, WORKMANSHIP OR INSTALLATION, SHOULD ANY DEVELOP WITHIN ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE WORK.

JOB CONDITIONS

- A. ACCOMPANYING DRAWINGS, INCLUDING PLANS, DETAILS, DIAGRAMS, NOTES, ETC., ARE SHOWN TO LIMIT AND EXPLAIN STRUCTURAL CONDITIONS, CONSTRUCTION REQUIREMENTS, SIZES, CAPACITIES AND METHOD OF INSTALLATION AND ERECTION. STRUCTURAL AND OTHER CONDITIONS MAY REQUIRE CERTAIN MODIFICATIONS AND ADJUSTMENTS FROM CONDITIONS SHOWN. SUCH DEVIATIONS ARE PERMISSIBLE; HOWEVER, SPECIFIC SIZES CAPACITIES AND REQUIREMENTS AFFECTING THE SATISFACTORY PERFORMANCE AND OPERATION OF THE INSTALLATION SHALL REMAIN UNCHANGED. MAKE ALLOWANCE FOR NORMAL JOB CONDITIONS AND INTERFERENCES.
- B. ASK FOR DETAILS WHENEVER UNCERTAIN ABOUT METHOD OF INSTALLATION. LACK OF DETAILS NOT REQUESTED SHALL NOT EXCUSE IMPROPER INSTALLATION AND CORRECTION SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
- C. SCHEDULE AND PERFORM ALL ELECTRICAL WORK TO AVOID DELAYS TO THE PROJECT AND OTHER TRADES.
- D. ALL PIPING, CONDUITS, CONDUCTORS AND OTHER ELECTRICAL ITEMS IN WAY OF CONSTRUCTION, SHALL BE REROUTED, RELOCATED OR OTHERWISE ADJUSTED TO WORK OUT WITH SUCH CONSTRUCTION OR CHANGES SHOWN OR SPECIFIED IN ANY OR ALL OF VARIOUS SECTIONS OF SPECIFICATIONS. ANY CONFLICTS THAT ARE ENCOUNTERED WILL BE REFERRED IMMEDIATELY TO ARCHITECT FOR METHOD OF DISPOSITION BEFORE CONTINUATION OF WORK.
- E. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS TO BECOME FAMILIAR WITH THE PHASING OF CONSTRUCTION REQUIRED FOR THIS PROJECT.

APPROVALS

- A. SUBSTITUTIONS SHALL BE SUBMITTED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS, AND ALL PROVISIONS THEREOF.
- B. ALL MATERIAL, EQUIPMENT, METHODS, AND ACCESSORIES ENTERING INTO THE WORK UNDER THIS SECTION OF CONTRACT ARE SUBJECT TO APPROVAL OR DISAPPROVAL OF THE ARCHITECT. APPROVAL OF ANY MANUFACTURER, MATERIAL, OR PRODUCT SHALL NOT CONSTITUTE A WAIVER OF ARCHITECT'S RIGHT TO DEMAND FULL COMPLIANCE WITH CONTRACT REQUIREMENTS, INCLUDING SHAPE, SIZE, QUALITY AND PERFORMANCE.
- C. EQUALITY OF MATERIALS IS THAT ESTABLISHED BY OPINION OF THE ARCHITECT. DECISION OF THE ARCHITECT IS FINAL.
- D. WHENEVER A MATERIAL OR ARTICLE OF EQUIPMENT IS SPECIFIED BY USE OF A PROPRIETARY NAME, OR BY NAMING THE MANUFACTURER OR VENDOR, ANY MATERIAL OR ARTICLE WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE DESIGN WILL BE CONSIDERED, PROVIDING IT IS OF EQUAL SUBSTANCE, AND FUNCTION, MEETS SPECIFICATIONS, AND IS ACCEPTABLE TO THE ARCHITECT, AND SUBMITTED FOR PRIOR APPROVAL IN ACCORDANCE WITH THE SPECIFICATIONS. ANY MANUFACTURER AND MODEL NUMBER SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS IS PROVIDED FOR CONVENIENCE ONLY, AND THE DESCRIPTION AND SPECIFICATION ACCOMPANYING THE MODEL NUMBER SHALL DICTATE THE REQUIREMENTS OF THE PRODUCT, AND SUPERSEDE THE PERFORMANCE, QUALITY, AND MATERIALS IMPLIED BY THE MODEL NUMBER WHERE A CONFLICT MAY OCCUR.

I - ELECTRICAL GENERAL (CONT'D.)

- E. INCLUDE LITERATURE, TECHNICAL DATA, ETC., AND SAMPLES IF NECESSARY, WITH ALL SUBMISSIONS. BURDEN OF PROOF THAT MATERIAL OFFERED FOR SUBSTITUTION IS EQUAL, OR SUPERIOR, IN CONSTRUCTION AND EFFICIENCY TO THAT NAMED, RESTS ON CONTRACTOR, AND UNLESS PROOF IS SATISFACTORY TO THE ENGINEER, SUBSTITUTION WILL NOT BE APPROVED.
- F. WITHIN THIRTY (30) DAYS AFTER AWARD OF GENERAL CONTRACT, CONTRACTOR SHALL SUBMIT COMPLETE DIMENSIONAL SHOP DRAWINGS AND DESCRIPTIVE LITERATURE COVERING THE FOLLOWING EQUIPMENT AND MATERIALS. WRITTEN APPROVAL THEREOF MUST BE OBTAINED BEFORE ORDERING OR INSTALLATION.
- WIRING DEVICES AND PLATES
LIGHTING FIXTURES
TRANSFORMERS
CONDUCTORS
FIRE ALARM SYSTEM (INCL. FIRE MARSHALL SUBMITTAL DOCUMENTS)
- G. COMPLY WITH REQUIREMENTS OF ARCHITECTURAL SPECIFICATIONS SECTIONS REGARDING SUBMITTALS, NUMBER OF COPIES, AND PROCEDURES.

PROTECTION OF FIXTURES, MATERIAL AND EQUIPMENT

- A. CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS, EXCEPT AS MAY BE CAUSED BY AGENTS OR EMPLOYEES OF THE OWNER. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS PROVIDED BY LAW.
- B. CONDUIT OPENINGS SHALL BE CAPPED OR PLUGGED DURING INSTALLATION. FIXTURES AND EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT, MOISTURE, CHEMICAL AND MECHANICAL INJURY. AT THE COMPLETION OF THE WORK, THE FIXTURES, MATERIAL AND EQUIPMENT SHALL BE THOROUGHLY CLEANED AND DELIVERED IN CONDITION SATISFACTORY TO THE ARCHITECT.

CUTTING, PATCHING, AND SEALING

- A. ALL CUTTING AND PATCHING FOR THE WORK OF THIS SECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS. THE CONTRACTOR SHALL PERFORM ALL NECESSARY CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF WORK. WHERE FLOOR OR ROOF IS CUT OR PENETRATED THE STRUCTURAL INTEGRITY SHALL BE MAINTAINED OR RESTORED. CUTTING OF STRUCTURAL MEMBERS IS PROHIBITED EXCEPT WITH PRIOR APPROVAL OF THE ARCHITECT.
- B. PENETRATIONS OF ALL WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND GASES IN ACCORDANCE WITH THE REQUIREMENTS OF THE TEST STANDARD ASTM-E-814 FOR FIRE STOPS. THE INTEGRITY OF THE FIRE RATING, AS INDICATED ON THE ARCHITECTURAL DRAWINGS, SHALL BE MAINTAINED.

CLEANING UP

- A. THIS CONTRACTOR SHALL PROMPTLY REMOVE FROM THE JOBSITE ALL DEBRIS, SURPLUS AND WASTE MATERIALS, EMPTY CRATES AND CARTONS RESULTING FROM HIS WORK PERFORMED IN THE BUILDING OR THE EXTERIOR THEREOF.
- B. THIS CONTRACTOR SHALL REMOVE ALL OIL, GREASE OR OTHER STAINS RESULTING FROM HIS WORK PERFORMED IN THE BUILDING OR THE EXTERIOR THEREOF.

TESTING AND BALANCING

- A. MAKE TESTS WHICH MAY BE REQUIRED BY THE OWNER OR THE ARCHITECT IN CONNECTION WITH THE OPERATION OF THE NEW ELECTRICAL SYSTEMS.
- B. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE IEEE AND THE NEC.
- C. THE INSTALLATION SHALL BE TESTED FOR PERFORMANCE, GROUNDS, AND INSULATION RESISTANCE. CIRCUIT CONTINUITY TESTS AND OPERATIONAL TESTS ON ALL EQUIPMENT FURNISHED AND/OR CONNECTED BY HIM SHALL BE MADE BY THE CONTRACTOR AFTER SUCH EQUIPMENT HAS BEEN INSTALLED.
- D. THE CONTRACTOR SHALL PROVIDE ALL TESTING EQUIPMENT AND ALL COSTS SHALL BE BORNE BY HIM. WRITTEN REPORTS SHALL BE MADE OF ALL TESTS IN ACCORDANCE WITH PARAGRAPH "COMMISSIONING". ALL FAULTS SHALL BE CORRECTED IMMEDIATELY.

PAINTING, DIRECTORY CARDS, AND LABELS

- A. CONTRACTOR SHALL TOUCH-UP OR REFINISH ALL ITEMS OF ELECTRICAL EQUIPMENT FURNISHED WITH A FACTORY FINISH COAT OF PAINT AND WHICH MAY HAVE BEEN DAMAGED REGARDLESS OF CAUSE.
- B. ALL NEW ELECTRICAL EQUIPMENT SUCH AS SWITCHES, PANELBOARDS, MOTOR CONTROLLERS, ETC., SHALL BE SUITABLY IDENTIFIED WITH MICARTA NAMEPLATES.
- C. REVISE THE EXISTING DIRECTORY FRAME OF EACH EXISTING PANELBOARD AND FOR EACH NEW FEEDER SWITCH OR CIRCUIT BREAKER, NEATLY TYPED DIRECTORY CARDS INDICATING THE GENERAL AREA AND TYPE OF THE NEW ELECTRICAL LOAD.
- D. SEE PAINTING SECTION FOR PAINTING BY OTHERS.

GUARANTEE

UPON COMPLETION OF ALL TESTS AND ACCEPTANCE, THE CONTRACTOR SHALL FURNISH THE OWNER A WRITTEN GUARANTEE COVERING ALL ELECTRICAL WORK UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. UPON NOTICE FROM THE OWNER, ARCHITECT OR THE CONSULTING ENGINEER DURING THE GUARANTEE PERIOD, THE CONTRACTOR SHALL REPLACE DEFECTIVE MATERIALS AND CORRECT FAULTS OF WORKMANSHIP AND REPAIR ANY DAMAGE CAUSED THEREBY PROMPTLY AND FREE OF ANY CHARGE. FUSES AND LAMPS ARE EXCLUDED FROM THE GUARANTEE.

CONTRACTOR'S QUALIFICATIONS

THE ELECTRICAL CONTRACTOR, BIDDING ON THIS PORTION (ELECTRICAL DIVISION) MUST BE LICENSED TO PERFORM SUCH WORK AS REQUIRED BY STATE AND LOCAL LAWS.

SUBSTITUTION

- A. ALL SPECIFIED MATERIAL, EQUIPMENT, FIXTURES, ETC., ENTERING INTO THE WORK UNDER THIS SECTION OF CONTRACT ARE SUBJECT TO THE PRIOR APPROVAL OR DISAPPROVAL OF THE ARCHITECT. REFER TO DIVISION 1 SECTIONS FOR APPROVAL PROCEDURES.
- B. MATERIALS, EQUIPMENT, FIXTURES, ETC., HEREIN NAMED, DESCRIBED, OR INDICATED ON DRAWINGS ESTABLISH THE TYPE, SIZE, APPEARANCE AND QUALITY REQUIRED OF PRODUCTS OTHER MANUFACTURERS MUST MEET TO BE ACCEPTABLE.
- C. REQUESTS FOR SUBSTITUTIONS MUST INCLUDE NECESSARY DATA TO CONCLUSIVELY DEMONSTRATE EQUALITY IN TYPE, SIZE, APPEARANCE, QUALITY, ETC. ANY DEVIATION OR LACK OF INFORMATION, IN THE OPINION OF ARCHITECT OR CONSULTING ENGINEER, MAY BE CAUSE FOR REJECTION.

COMMISSIONING

- A. CONTRACTOR SHALL INSTALL ALL ITEMS OF EQUIPMENT AS IDENTIFIED IN THIS SPECIFICATION IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS (WHETHER IDENTIFIED IN THIS SPECIFICATION OR NOT), SHOP DRAWINGS AND CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO INSURE A COMPLETE AND PROPER INSTALLATION. .
- B. OTHER SPECIFIC ITEMS OF COMMISSIONING SHALL BE AS FOLLOWS:

1. ALL ELECTRICAL OUTLETS AND DEVICES SHALL BE TESTED FOR PROPER OPERATION. RECEPTACLES SHALL BE CHECKED FOR PROPER HOT, NEUTRAL AND GROUND CONNECTIONS WITH SUITABLE PLUG-IN TESTER. LIGHT SWITCHES AND DIMMERS SHALL BE SWITCHED TO CHECK THAT THE CORRECT LIGHTS ARE CONTROLLED AND THAT DIMMERS OPERATE PROPERLY.
2. MEASURE VOLTAGE AND AMPACITY AT EACH PANELBOARD AND SWITCHBOARD UNDER FULL LOAD CONDITIONS (AS BEST AS CAN BE ACHIEVED) FOR EACH PHASE.
3. PROVIDE WRITTEN REPORTS FOR ALL TESTS AND STUDIES DESCRIBED ABOVE PRIOR TO FINAL PUNCH LIST INSPECTION.

II - ELECTRICAL MATERIALS AND METHODS (CONT'D.)

RELATED DOCUMENTS

APPLICABLE ITEMS OF THIS SECTION SHALL APPLY TO ALL SECTIONS OF ELECTRICAL.

METHODS OF WIRING


- A. NO WIRE SHALL BE SMALLER THAN NO. 12 EXCEPT THOSE FOR FIXTURE DROPS AND FOR CONTROL CIRCUITS OF EQUIPMENT. ALL WIRE SHALL HAVE 600-VOLT INSULATION EQUIVALENT TO TYPE THHN OR THWN-2 UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRING SHALL BE RUN IN CONDUIT , UNLESS SPECIFICALLY NOTED OTHERWISE. TYPE MC CABLE MAY NOT BE USED IN THIS PROJECT. .
- B. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICES SHALL BE MADE EXCEPT IN OUTLET OR JUNCTION BOXES.
- C. HOMERUNS TO PANELBOARDS MAY BE COLLECTED IN ONE OR MORE CONDUITS PROVIDED ALL CIRCUITING IS DONE IN ACCORDANCE WITH CODE REQUIREMENTS AND THE MAXIMUM UNBALANCED CURRENT DOES NOT EXCEED THE CAPACITY OF THE NEUTRAL CONDUCTORS.
- D. POWDERED SOAPSTONE OR APPROVED PULLING COMPOUND SHALL BE USED AS A PULLING LUBRICANT FOR ALL NON-LEAD COVERED CONDUCTORS. USE THOMAS AND BETTS WIRESLICK, IDEAL 77 OR APPROVED EQUAL.
- E. ALL EMPTY CONDUITS INSTALLED SHALL CONTAIN A #14 FISH WIRE.
- F. CONDUIT SIZES SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND/OR SIZES SHOWN ON THE DRAWINGS. MINIMIZE SIZE CONDUIT ROUTED ABOVE GRADE SHALL BE 1/2". MINIMUM SIZE CONDUIT ROUTED BELOW GRADE SHALL BE 3/4".
- G. ALL CONDUITS ASSOCIATED WITH FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED CONCEALED ABOVE CEILINGS OR BELOW THE FLOOR SLAB. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE FLOOR SLABS, EXCEPT AS REQUIRED TO SERVE FLOOR BOXES, OR AS APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER. WHERE INSTALLED TO SERVE FLOOR BOXES, CONDUIT SHALL BE ROUTED TO NEAREST WALL AND TURNED UP. WHERE CONDUITS TRANSITION THROUGH OR OUT OF FLOOR SLAB, CONDUITS SHALL BE TRANSITIONED TO GALVANIZED RIGID STEEL. PVC CONDUITS ARE NOT ALLOWED TO TRANSITION THROUGH SLAB. WHERE CONDUITS PASS THROUGH THE SECOND FLOOR SLAB, UTILIZE SLEEVES AND SEAL AFTER INSTALLATION OF CONDUITS. IN AREA BELOW A DISTRIBUTION PANEL, CONTRACTOR SHALL PROVIDE ENHANCEMENT OF REINFORCING AS REQUIRED BY STRUCTURAL ENGINEER. CONDUITS ROUTED BELOW THE FIRST FLOOR SLAB SHALL SUPPORTED INDIVIDUALLY USING 1/4" STAINLESS STEEL THREADED RODS, WRAPPED AROUND CONDUIT AND BENT OVER REINFORCING STEEL IN SLAB. SUPPORTS FOR MULTIPLE CONDUITS SHALL BE 1/4" STAINLESS STEEL, AND WRAPPED AROUND ENTIRE RACK, WITH BOTH ENDS ROUTED VERTICAL AND BENT OVER REINFORCING STEEL. ALL SUPPORTS SHALL BE VERTICAL WITH RESPECT TO CONDUIT, AND TURNED AT 90° OVER TWO SEPARATE REINFORCEMENT BARS, SPACING MINIMUM 6" APART. CONTRACTOR SHALL ADD A SHORT REINFORCING BAR AS NEEDED TO ACHIEVE 90° ANGLE. SUPPORTS SHALL BE SPACED IN ACCORDANCE WITH NEC-344.30. ANY CONDUIT EXPOSED TO WEATHER SHALL BE HEAVY WALL HOT DIPPED GALVANIZED RIGID CONDUIT, OR THE CASE OF FINAL EQUIPMENT CONNECTIONS, LIQUID-TIGHT, FLEXIBLE METAL CONDUIT.
- H. UNDERGROUND CONDUITS FOR BRANCH CIRCUIT CONDUCTORS SHALL BE SCHEDULE 40 PVC DIRECT BURIED MINIMUM 24" BELOW GRADE. PROVIDE SWEEP ELBOWS, AT PENETRATION OF GRADE, THAT SHALL BE GALVANIZED RIGID STEEL, WITH MINIMUM 36" RADIUS. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED WITH METALLIC MARKER TAPE BURIED 12" BELOW GRADE, DIRECTLY ABOVE CONDUIT, AND CONTINUOUS FOR ENTIRE LENGTH OF CONDUIT.
- I. CONDUITS IN METAL STUD WALLS, EXPOSED WITHIN MECHANICAL AND ELECTRICAL ROOMS, AND ABOVE CEILINGS SHALL BE EMT. CONDUITS IN HOLLOW CMU WALLS SHALL BE EMT WITH CONCRETE TIGHT SET SCREW FITTINGS. CONDUITS IN SOLID, INFILLED CMU WALLS SHALL BE SCHEDULE 40 PVC. ALL CONDUITS SHALL BE CONCEALED, EXCEPT WITHIN MECHANICAL, ELECTRICAL, AND ELEVATOR EQUIPMENT ROOMS. CONDUITS ABOVE GROUND, ON THE EXTERIOR OF THE BUILDING SHALL BE HEAVY WALL GALVANIZED RIGID STEEL.
- J. ALUMINUM CONDUIT MAY BE USED IN LIEU OF STEEL CONDUIT IN SIZES OVER 2" PROVIDED SAME DOES NOT RUN UNDERGROUND OR IN, OR PASSING THROUGH CONCRETE.
- K. ALL RACEWAYS SHALL BE CONCEALED UNLESS OTHERWISE INDICATED.
- L. ALL CONDUIT AND TUBING SHALL BE ARMCØ, PLASTIC WIRE & CABLE, STEELDUCT, REPUBLIC, ALLIED, OR APPROVED EQUAL.
- M. BRANCH CIRCUIT CONDUITS FEEDING OUTLETS IN MASONRY WALLS SHALL BE CONCEALED IN MASONRY. WHERE OUTLET BOXES ARE INDICATED IN BARE MASONRY WALLS, THE BOX SHALL BE MOUNTED SO THAT TWO EDGES OF THE BOX OR PLASTER COVER WILL FALL IN A MORTAR JOINT. WHERE SWITCHBOXES WILL NOT ACCOMMODATE THE NUMBER OF CONDUCTORS REQUIRED AND 4" SQUARE OR LARGER BOXES ARE INSTALLED, THE DEVICE COVERS SHALL BE MANUFACTURED BY STEEL CITY MANUFACTURING CO. OR APPLETON, 1" MINIMUM IN DEPTH, WITH STRAIGHT RECTANGULAR OPENINGS FOR DRYWALL CONSTRUCTION. WHERE GROUTING IS REQUIRED TO FILL UP IMPROPERLY CUT OPENINGS IN THE MASONRY, THE WORK WILL BE REJECTED . ELECTRICAL CONTRACTOR SHALL COOPERATE WITH THE BRICKLAYER TO INSURE A NEAT AND WORKMANLIKE JOB.
- N. SOLDERLESS FIXED SPRING CONNECTORS (T & B 10-100, IDEAL WRAP-CAP, OR EQUAL) SHALL BE USED FOR ALL BRANCH CIRCUIT WIRING AND FIXTURE CONNECTIONS ON ALL CONDUCTORS #10 AWG AND SMALLER. SPLIT BOLT OR 2 BOLT CONNECTORS (T & B 6 HPW, O-Z GEDNEY PMX, OR EQUAL) SHALL BE USED FOR CONNECTIONS AND SPLICES ON ALL CONDUCTORS #8 AWG OR LARGER.
- O. CONNECTIONS TO ALL MOTORS NOT EQUIPPED WITH A PORTABLE CORD SHALL BE MADE WITH A SHORT PIECE OF FLEXIBLE METAL CONDUIT BETWEEN RIGID CONDUIT SYSTEM AND MOTOR TERMINAL BOX. GROUND BOND OF SEPARATE COPPER CONDUCTOR SHALL BE MADE BETWEEN MOTOR FRAME AND RIGID CONDUIT SYSTEM. IN ALL OUTDOOR LOCATIONS, LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED.
- P. ALL RECESSED FIXTURES, UNLESS THEY CONTAIN A BOX APPROVED FOR THW WIRE SHALL BE WIRED WITH THHN, IN FOUR FEET (4') OF FLEXIBLE METAL CONDUIT FROM A BOX AT LEAST ONE FOOT (1') FROM THE FIXTURE. NOT MORE THAN TWO INDIVIDUAL OR TWO ROWS OF CONTINUOUS FIXTURES SHALL BE CONNECTED TO ANY ONE OF THESE OUTLET BOXES. THIS BOX SHALL BE LOCATED ABOVE THE CEILING AND SHALL BE ACCESSIBLE BY REMOVING FIXTURE . INSTALLATION OF BLANK COVERS ON CEILINGS TO PROVIDE ACCESS TO SUCH BOXES WILL NOT BE ACCEPTABLE.
- Q. SPLICES IN ALL LOW VOLTAGE WIRING SHALL BE MADE AT TERMINAL BLOCKS FURNISHED WITH THE EQUIPMENT, OR AT JUNCTION BOXES, WHERE OTHER SPLICES ARE REQUIRED, THESE SPLICES SHALL BE SOLDERED.
- R. OTHER ROUTINGS THAN THOSE INDICATED MAY NOT BE USED WITHOUT THE APPROVAL OF THE ARCHITECT, BUT CONTRACTOR SHALL MAKE ALLOWANCE FOR POSSIBLE OBSTRUCTIONS TO ROUTES INDICATED. CONDUITS SHALL BE GROUPED TOGETHER AND RUN ON COMMON HANGERS PARALLEL TO BUILDING LINES IN AREAS OF OPEN CEILINGS.

WIRING IN RACEWAYS

- A. CONDUIT SIZES SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND/OR SIZES SHOWN ON DRAWINGS.
- B. IT IS NOT MANDATORY THAT ALL CONDUITS BE ROUTED AS SHOWN ON THE DRAWINGS. OTHER ROUTINGS FACILITATING SPEED AND EASE OF INSTALLATION MAY BE USED, PROVIDED THE GENERAL INTENT OF THESE SPECIFICATIONS IS FOLLOWED AND THE SPECIFIC INTENT OF THE PARTICULAR CIRCUIT OR CIRCUITS AND THE NATIONAL ELECTRICAL CODE ARE NOT VIOLATED. CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE STRUCTURAL AND ARCHITECTURAL DESIGN AND DETERMINE CONDUIT ROUTING PRIOR TO THE FORMING OF ANY SLABS. CONTRACTOR SHALL MAKE FUL ALLOWANCES FOR POSSIBLE OBSTRUCTIONS TO THESE ROUTES, AS NO EXTRA CHARGES WILL BE ALLOWED FOR ADDED LENGTHS THAT MAY BE NECESSARY.
- C. CONDUITS SHALL BE INSTALLED IN A NEAT APPEARING MANNER AND SHALL BE RIGIDLY SECURED IN PLACE. THE USE OF WOODEN PLUGS IN MASONRY OR CONCRETE AS A BASE TO FASTEN RACEWAYS WILL NOT BE PERMITTED. APPROVED ANCHORS ONLY SHALL BE USED FOR THIS PURPOSE. EXPOSED CONDUITS SHALL BE INSTALLED WITH RUNS ARRANGED PARALLEL OR PERPENDICULAR TO WALLS AND CEILINGS, WITH RIGID ANGLE TURNS CONSISTING O F SYMMETRICAL BENDS, CONDULETS AND JUNCTION BOXES. BENDS AND OFFSET SHALL BE HELD TO A MINIMUM. CONDUITS SHALL BE KEPT AT LEAST SIX (6") INCHES FROM PARALLEL RUNS OF HOT PIPING FLUES, OR OTHER HOT OBJECTS.
- D. CONDUITS SHALL BE CUT WITH A HACKSAW; ENDS MUST BE SQUARE. THREADS CUT AND CLEANED BEFORE REAMING. CONDUITS MUST BE SECURELY FASTENED TO ALL OUTLET AND JUNCTION BOXES WITH TWO LOCKNUTS AND ONE BUSHING OF APPROVED MAKE, CARE BEING EXERCISED TO SEE THAT FULL NUMBER OF THREADS PROJECT THROUGH TO PERMIT BUSHINGS TO BUTT UP TIGHT AGAINST THE END OF THE CONDUIT, AFTER WHICH THE LOCKNUTS SHALL BE SCREWED TIGHT. CONDUIT SHALL BE JOINED BY APPROVED CONDUIT COUPLINGS AND SHALL HAVE ENDS BUTTED IN ALL CASES WHERE COUPLINGS ARE USED. USE THREE PIECE THREADED ELECTRICAL UNIONS WHERE STANDARD COUPLINGS CANNOT BE USED. THE USE OF RUNNING THREADS WILL NO BE PERMITTED. WHERE CONDULETS CANNOT BE JOINED BY STANDARD THREAD COUPLINGS, APPROVED TYPE CONDUIT UNIONS SHALL BE USED. CONNECTORS AND COUPLINGS FOR ELECTRIC METALLIC TUBING SHALL BE OF THE SET-SCREW TYPE. COUPLINGS FOR RIGID HEAVY-WALL CONDUIT SHALL BE OF THE THREADED TYPE.
- E. CONDUIT FITTINGS SHALL BE CROUSE-HINDS OR APPLETON GROUNDING TYPE, OR EQUAL.
- F. INSULATED BUSHINGS SHALL BE PROVIDED FOR ALL CONDUCTORS #4 AND LARGER.
- G. NO WIRE SHALL BE PULLED IN UNTIL THE CONDUIT SYSTEM IS COMPLETE AND PLASTERING DRIED. THIS DOES NOT INCLUDE THE WHITE FINISH COAT OF PLASTER.
- H. DURING CONSTRUCTION, ALL OUTLET BOXES AND CONDUIT STUB-INS SHALL BE SUITABLY PROTECTED AGAINST THE ENTRANCE OF FOREIGN MATERIAL.

BOXES AND FITTINGS

- A. BOXES AND FITTINGS SHALL CONFORM TO REQUIREMENTS OF ARTICLE 314 OF THE N.E.C.



SEPTEMBER 9, 2022

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LUCIEN T. VIVIEN JR.
AND ASSOCIATES, INC.
CONSULTING ENGINEERS

3011 COLOS STREET
METairie, LOUISIANA 70002
T (504) 835-5400 F (504) 835-5412
www.lvtassociates.com



NY ASSOCIATES, INC.
ENGINEERS • ARCHITECTS • PLANNERS
PROGRAM & PROJECT MANAGERS
2720 LAKE WILLA DRIVE
METAIRIE, LOUISIANA 70002
PHONE (504) 885-0200
FAX (504) 885-0205

JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

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N-Y Proj No: 21008.01
Date: SEPTEMBER 9, 2022
Revised:
**ELECTRICAL -
SPECIFICATIONS**

DRAWN BY: LAR
CHECKED BY: RAC
DESIGNED BY: KEV

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Sheet 1 of 4

II - ELECTRICAL MATERIALS AND METHODS (CONT'D.)

- B. JUNCTION AND PULL BOXES REQUIRED BY FIELD CONDITIONS SHALL BE INSTALLED WHETHER INDICATED ON DRAWINGS OR NOT.
- C. THE LOCATION OF OUTLETS NOT SPECIFICALLY DIMENSIONED ON THE DRAWINGS SHOULD BE CONSIDERED AS APPROXIMATE ONLY. THE CONTRACTOR SHALL STUDY THE GENERAL PLANS WITH RELATION TO THE SPACES SURROUNDING EACH OUTLET IN ORDER THAT HIS WORK FIT THE WORK OF OTHERS SO THAT WHEN FIXTURES OR OTHER FITTINGS ARE INSTALLED, THEY WILL BE SYMMETRICALLY LOCATED ACCORDING TO DESIGN REQUIREMENTS.
- D. USE ONLY GALVANIZED OUTLET AND JUNCTION BOXES, CONDUIT FITTINGS, COVERS, AND SUPPORTS FOR INTERIOR WIRING AND CAST FITTINGS AND BOXES WITH GASKETED COVERS FOR EXTERIOR WIRING. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY STRUCTURAL SUPPORTS FOR BOXES AND CABINETS. KINDORF OR UNISTRUT CHANNELS SHALL BE USED WHERE APPLICABLE.
- E. BOXES FOR CONCEALED OUTLETS SHALL BE 4" SQUARE BY 2" DEEP, OR LARGER, WITH RAISED DEVICE COVERS AS REQUIRED, EXCEPT THAT 1-1/2" DEEP SWITCH BOXES MAY BE USED WHERE ONLY ONE CONDUIT ENTERS A BOX.
- F. BOXES FOR CONCEALED CEILING OUTLETS SHALL BE 4" OCTAGONAL BY 1-1/2" DEEP, OR LARGER. BOXES IN PLASTER CEILINGS SHALL HAVE PLASTER COVERS. FIXTURE OUTLET BOXES SHALL BE EQUIPPED WITH FIXTURE STUDS SECURED TO THE BOXES.
- G. OUTLET BOXES FOR EXPOSED WORK SHALL BE 4" SQUARE BY 1-1/2" DEEP, OR LARGER. BOXES SHALL HAVE APPLETON 1/2" DEEP SURFACE METAL COVERS TO ACCOMMODATE THE DEVICES INDICATED, OR APPROVED EQUAL.
- H. IN WALLS OR CEILINGS OF CONCRETE, TILE OR OTHER NON-COMBUSTIBLE MATERIAL, BOXES AND FITTINGS SHALL BE SO INSTALLED THAT THE FRONT EDGE OF THE BOX OR FITTING WILL NOT SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". IN WALLS OR CEILINGS CONSTRUCTED OF WOOD OR OTHER COMBUSTIBLE MATERIAL, OUTLET BOXES AND FITTINGS SHALL BE SET FLUSH WITH THE FINISHED SURFACE.
- I. IF A FIXTURE, CANOPY OR PAN IS USED AS AN OUTLET BOX COVER, ANY COMBUSTIBLE WALL OR CEILING FINISH BETWEEN THE EDGE OF THE CANOPY AND THE OUTLET BOX SHALL BE COVERED WITH NON-COMBUSTIBLE MATERIAL.
- J. FIXTURE STUDS SHALL BE INSTALLED IN ALL FIXTURE OUTLETS. IN EACH CASE, THE MAXIMUM PERMISSIBLE NUMBER OF CONDUCTORS SHALL BE REDUCED BY ONE.
- K. APPROPRIATE GALVANIZED BLANK COVERS, SUBJECT TO APPROVAL OF THE ARCHITECT, SHALL BE INSTALLED OVER OUTLET OR JUNCTION BOXES WHICH DO NOT HOUSE A DEVICE, AND WILL ONLY BE PERMITTED IN MECHANICAL/ELECTRICAL/EQUIPMENT SPACES. MULTIPLE DEVICES SHALL BE INSTALLED IN ONE-PIECE MULTI-GANG BOX WITH ONE-PIECE MULTI-GANG COVER PLATES. ON SURFACE MOUNTED SWITCH AND RECEPTACLE OUTLETS, PROVIDE RAISED COVERS TO PERMIT MOUNTING DEVICES WITHOUT ADDITIONAL DEVICE PLATES.
- L. FOR JUNCTION AND PULL BOXES, USE 14 GAUGE OR THICKER SHEET METAL. ATTACH COVERS BY MEANS OF 1/4" X 20 ROUND HEAD MACHINE SCREWS. IN DAMP LOCATIONS, PROVIDE RUBBER OR NEOPRENE GASKETS.
- M. ATTENTION IS CALLED TO NATIONAL ELECTRICAL CODE, ARTICLE 314, PARAGRAPH 314.16, SUB-PARAGRAPH (A) AND (B) RELATIVE TO ALLOWABLE NUMBER OF CONDUCTORS IN OUTLET BOXES. CONTRACTOR SHALL MAKE PROVISIONS TO PREVENT OVERCROWDING OUTLET AND JUNCTION BOXES REGARDLESS OF NUMBER OF CONDUCTORS SHOWN ON THE DRAWINGS AT THE OUTLETS. THERE SHALL BE NO DEVIATIONS FROM CODE REQUIREMENTS ON THIS SUBJECT.

CONDUCTORS

- A. ALL CONDUCTORS SHALL BE COPPER AND NO WIRE SHALL BE LESS THAN #12 AWG EXCEPT AS OTHERWISE NOTED HEREIN AND OR INDICATED ON DRAWINGS.
- B. MINIMUM SIZE CONDUCTORS FOR BRANCH CIRCUITS SERVING SITE LIGHTING AND POWER SHALL BE #10 AWG.
- C. ALL CONDUCTORS, EXCEPT AS HEREIN NOTED AND/OR AS INDICATED ON DRAWINGS, SHALL HAVE 600-VOLT INSULATION TYPE THHN OR THWN-2. WIRING THROUGH CHANNELS OF CONTINUOUS SURFACE OR SUSPENDED FLUORESCENT FIXTURES SHALL BE TYPE RHH, OR THHN.
- D. RECESSED FLUORESCENT FIXTURES SHALL BE FED WITH TYPE THHN, OR RHH CONDUCTORS AND RECESSED INCANDESCENT FIXTURES SHALL BE FED WITH TYPE THHN CONDUCTORS.
- E. CONDUCTORS #8 AND LARGER SHALL BE STRANDED. FEEDERS SHALL BE OF THE SIZE AND TYPE INDICATED ON DRAWINGS.

GROUNDING

- A. GROUNDING SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 250 OF THE N.E.C.
- B. CONTRACTOR SHALL PROVIDE GROUNDING SYSTEM INDICATED ON DRAWINGS.
- C. THE STEEL CONDUIT SYSTEMS AND THE NEUTRAL CONDUCTORS OF THE WIRING SYSTEMS SHALL BE GROUNDED AT THE SERVICE EQUIPMENT. THE COPPER SERVICE GROUND CONDUCTORS SHALL BE EXTENDED IN CONDUIT FROM THE MAIN SWITCHBOARD THE FIRE PROTECTION WATER AND DOMESTIC WATER SERVICE ENTRANCE, EACH LOCATED IN THE SPRINKLER ROOM. GROUND CONNECTION SHALL BE VISIBLE, AND CONNECTION OF CONDUIT AND CONDUCTORS TO THE WATER PIPE SHALL BE MADE WITH AN APPROVED GROUND CONNECTOR, CONDUIT HUB, AND WATER PIPE CLAMP.
- D. A GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT. THE GROUNDING CONDUCTOR SHALL BE GREEN INSULATED, WITH A MINIMUM SIZE OF #12 AWG, OR AS INDICATED ON THE DRAWINGS OR PER NEC-250. GROUNDING CONDUCTORS ROUTED ENTIRELY IN SOIL AS PART OF THE GROUND LOOP SHALL BE BARE COPPER. THE GROUNDING ELECTRODE CONDUCTOR CONNECTING THE ELECTRICAL SERVICE TO THE GROUND SYSTEM SHALL BE BARE COPPER.
- E. THE ABOVE REQUIREMENTS SHALL BE SUPPLEMENTED BY GROUND TO 3/4" DIAMETER, 10'-0" LONG DRIVEN COPPER BONDED GROUND RODS AS SHOWN ON THE DRAWINGS. FOR ALL UNDERGROUND CONNECTIONS, USE EXOTHERMIC WELDS.
- F. BOND JUMPERS SHALL BE USED AROUND CONCENTRIC OR ECCENTRIC KNOCKOUTS ON SERVICE EQUIPMENT.
- G. GROUNDING POLE OF EACH POLARIZED RECEPTACLE SHALL BE BONDED TO ITS OUTLET BOX WITH COPPER WIRE AND MACHINE OR SELF-TAPPING SCREW.

EQUIPMENT SUPPORTS

ALL ELECTRICAL SWITCHES, PANELS, APPURTENANCES, ETC., SHALL BE RIGIDLY SUPPORTED ON KINDORF, UNISTRUT, OR EQUAL STEEL FRAMING WHICH SHALL BE SECURELY FASTENED TO WALLS, FLOORS, CEILINGS, ETC., AS REQUIRED. DETAILS OF FRAMING MUST BE SUBMITTED TO ARCHITECT FOR APPROVAL BEFORE INSTALLATION.

WIRING DEVICES

- A. DEVICES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY LEVITON, HUBBELL, P & S, OR APPROVED EQUAL.
- B. ALL DEVICES LISTED BELOW MAY NOT NECESSARILY BE USED.
- C. DEVICES SHALL CONFORM TO THE FOLLOWING:

DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20
DUPLEX RECEPTACLE, GFI, 20A, 125V, NEMA 5-20
SIMPLEX RECEPTACLE, 30A, 125V, NEMA 5-30
TOGGLE SWITCH, 20A, 120-277V, SPST
TOGGLE SWITCH, 20A, 120-277V, DPST
TOGGLE SWITCH, 20A, 120-277V, 3-WAY
TOGGLE SWITCH, 20A, 120-277V, 4-WAY
TOGGLE SWITCH, 20A, 120-277V, PILOT LIGHT

- D. ALL RECEPTACLES SHALL BE MOUNTED WITH THE GROUNDING CONNECTION AT THE TOP. ALL RECEPTACLES SHALL BE PROVIDED WITH CHLD SAFETY INSULATED INSERTS.

DEVICE PLATES

- A. WALL PLATES SHALL BE OF THE ONE-PIECE TYPE, .100" SMOOTH PLASTIC OF COLOR AS DETERMINED BY ARCHITECT. PLATES SHALL BE OF THE SAME MANUFACTURER AS DEVICES FURNISHED.
- B. USE MULTI-GANG PLATES WHERE SWITCHES ARE GROUPED.
- C. PLATES SHALL BE INSTALLED WITH ALL FOUR EDGES IN CONTINUOUS CONTACT WITH FINISHED WALL SURFACES WITHOUT THE USE OF MATS OR SIMILAR DEVICES. PLASTER FILLINGS WILL NOT BE PERMITTED. PLATES SHALL BE INSTALLED WITH AN ALIGNMENT TOLERANCE OF 1/16" FROM THE VERTICAL OR HORIZONTAL. PLATES FOR DEVICES FED WITH EXPOSED CONDUIT SHALL BE AS HEREINBEFORE SPECIFIED.

I - ELECTRICAL GENERAL (CONT'D.)

- D. DEVICE PLATES SHALL NOT BE INSTALLED UNTIL PAINTING IS COMPLETED. DEVICE PLATES HAVING PAINT ON THEIR SURFACES, OR HAVING THEIR FINISH MARRED BY USE OF PAINT REMOVER, SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- E. WHERE DEVICE IS LOCATED OUTDOORS OR SPECIFIED AS WEATHERPROOF, USE CAST ALUMINUM BOX WITH CAST ALUMINUM COVER LISTED FOR WET LOCATION WHEN COVER IS CLOSED (NEC 406.8(B)).

MOUNTING HEIGHTS

- A. IF NOT OTHERWISE INDICATED IN ARCHITECTURAL OR ELECTRICAL DRAWINGS, MOUNTING HEIGHTS TO CENTERLINE OF OUTLETS SHALL BE AS HERE-IN-AFTER LISTED.
- B. RECEPTACLES - 18" ABOVE FINISHED FLOOR EXCEPT ABOVE COUNTER WHERE INDICATED, OR AS DIRECTED BY OWNER.
- C. LIGHT SWITCHES - 48" ABOVE FINISHED FLOOR.
- D. PANEL BOARD - NOT MORE THAN 6'-0" FROM TOPMOST OPERATING HANDLE TO FLOOR.
- E. BRACKET FIXTURES - AS SHOWN ON THE DRAWINGS, OR WHERE MOUNTED ABOVE EXTERIOR DOOR, MIRROR, MEDICINE CABINET, AT A HEIGHT JUST SUFFICIENT TO CLEAR THE SWING OF THE DOOR OR MEDICINE CABINET.
- F. THE ABOVE MOUNTING HEIGHTS MAY BE ADJUSTED AS REQUIRED TO PERMIT BOTTOM OR TOP OF PLATE TO ALIGN WITH MORTAR JOINTS IN UNFINISHED MASONRY WALLS, PROVIDED JOINTS ARE NOT RAKED. WHERE JOINTS ARE RAKED, ADJUST HEIGHT AS REQUIRED TO INSURE THAT CENTER OF OUTLET BOX WILL BE IN CENTER OF A MASONRY UNIT.

FUSES

FUSES UTILIZED SHALL PROVIDE TYPE 2 "NO DAMAGE" AS DEFINED BY IEC 947. ALL FUSES SHALL HAVE A MINIMUM INTERRUPTING RATING OF 200,000 A. FUSES PROTECTING TRANSFORMERS SHALL BE CLASS J OR RK5 TIME DELAY. FUSES PROTECTING MOTOR LOADS SHALL BE CLASS J OR RK1 CURRENT LIMITING. FUSES SHALL BE MANUFACTURED BY FERRAZ-SHAWMUT, COOPER BUSSMAN, OR APPROVED EQUAL.

TERMINATIONS

ALL TERMINATION LUGS SHALL BE RATED 75 DEGREES C OR HIGHER, AND SHALL BE COMPATIBLE WITH NUMBER AND SIZE OF WIRES TO BE TERMINATED.

III - ELECTRICAL EQUIPMENT CONNECTIONS

RELATED DOCUMENTS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING ARCHITECTURAL SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

MECHANICAL EQUIPMENT

- A. ALL POWER WIRING ASSOCIATED WITH THE MECHANICAL SECTION OF THESE SPECIFICATIONS SHALL BE INSTALLED BY THIS ELECTRICAL CONTRACTOR.
- B. ALL HVAC CONTROL WIRING SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR.
- C. MECHANICAL CONTRACTOR WILL FURNISH AND SET ALL MOTORS.
- D. OVERLOAD ELEMENTS IN ALL STARTERS SHALL BE SELECTED ACCORDING TO ACTUAL MOTOR NAMEPLATE FULL LOAD CURRENT. RESPONSIBILITY FOR THIS COORDINATION SHALL LIE WITH THE CONTRACTOR WHO HAS FURNISHED THE PARTICULAR STARTER. STARTERS, FOR MOTORS FURNISHED BY THE MECHANICAL CONTRACTOR, SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR, AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- E. ALL MANUAL STARTING SWITCHES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- F. ALL DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED AS INDICATED AND AS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- G. ALL FIRESTATS SHALL BE FURNISHED AND SET UNDER THE MECHANICAL SPECIFICATION SECTIONS AND ELECTRICALLY CONNECTED IN THE BRANCH CIRCUIT WIRING BY THE ELECTRICAL CONTRACTOR.
- H. REFER TO THE SPECIFICATION SECTIONS AND THE MECHANICAL DRAWINGS FOR ANY ADDITIONAL ELECTRICAL WORK REQUIRED.
- I. SHOULD THE MECHANICAL OR ANY OTHER CONTRACTOR DESIRE TO USE EQUIPMENT REQUIRING LARGER MOTORS THAN THOSE INDICATED ON THE DRAWINGS OR EQUIPMENT REQUIRING MORE ELABORATE CONTROLS THAN THE EQUIPMENT DESCRIBED IN THESE SPECIFICATIONS, THE RESPONSIBLE CONTRACTOR SHALL REIMBURSE THE ELECTRICAL CONTRACTOR FOR ANY EXTRA MATERIALS OR LABOR WHICH THE LATTER MUST FURNISH.
- J. PROVIDE ALL WIRING AND INTERCONNECTIONS NECESSARY FOR SPEED CONTROLLERS ON EXHAUST FANS.

ELECTRICAL EQUIPMENT

- A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
- B. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY THAT THE SIZES OF THE ELECTRICAL EQUIPMENT SHALL FIT IN THE SPACES ALLOWED, AND THAT THE INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC AND MANUFACTURER'S RECOMMENDATIONS RELATIVE TO SERVICE AND OPERATION.
- C. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SPACE CONFLICTS PRIOR TO WHEN ANY INSTALLATION REVISIONS WILL RESULT IN REMOVAL OF INSTALLED EQUIPMENT AND/OR CONDUITS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED IF THE CONTRACTOR FAILS TO SO INFORM THE ARCHITECT.
- D. STARTERS, FOR MOTORS FURNISHED BY THE ELECTRICAL CONTRACTOR, SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

ARCHITECTURAL EQUIPMENT

- A. COORDINATE ALL ROUGH-IN FOR ALL EQUIPMENT SPECIFIED BY ARCHITECT. ALL MOUNTING HEIGHTS AND LOCATIONS SHALL BE DETERMINED FROM SHOP DRAWING SUBMITTALS PRIOR TO ROUGH-IN.
- B. COORDINATE ALL ROUGH-IN WITH THE INSTALLATION OF ALL MILLWORK. ADJUST ALL MOUNTING HEIGHTS AS REQUIRED TO CLEAR COUNTERTOPS AND BACKSPLASHES. CONSULT ALL SHOP DRAWINGS AND COORDINATE WITH MILLWORK PROVIDER FOR PROPER ROUGH-IN AND INSTALLATION OF DEVICES WITHIN MILLWORK.

RELATED DOCUMENTS

- A. ALL DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, AND ARCHITECTURAL SPECIFICATION SECTIONS APPLY TO THIS SECTION.
- B. APPLICABLE ITEMS IN ALL OTHER ELECTRICAL SECTIONS SHALL BE INCLUDED IN THIS SECTION.

LIGHTING FIXTURES

- A. CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES AS SHOWN IN FIXTURE SCHEDULE AND AT LOCATIONS INDICATED ON DRAWINGS. THIS INCLUDES ALL FIXTURES WITH LAMPS, NECESSARY SUPPORTS, ETC., FOR A COMPLETE AND SAFE INSTALLATION, ALONG WITH WIRING AND CONNECTIONS THERETO.

IV - LIGHTING

LED LAMPS

1. UNLESS SPECIFIED DIFFERENTLY IN THE LIGHTING FIXTURE SCHEDULE ALL LED LAMPS:
- A. SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH IESNA STANDARD LM80 FOR ELECTRICAL AND PHOTOMETRIC MEASUREMENT OF SSL PRODUCTS
- B. LED LUMINARIES SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH IESNA LM79 STANDARDS.
- C. SHALL HAVE A MINIMUM LUMEN MAINTENANCE (L70) OF 50,000 HOURS.
- D. SHALL HAVE LIFETIME PROJECTIONS SHALL BE IN ACCORDANCE WITH IESNA TM-21.
- E. SHALL HAVE A MINIMUM CRI, COLOR RENDERING INDEX, OF 80.
- F. SHALL HAVE A COLOR MAINTENANCE MEASURED OVER 6000 HOURS.
- G. SHALL HAVE NO GREATER VARIANCE THAN A 3 STEP MCADAM ELLIPSE.
- H. EXTERIOR LED LUMINARIES SHALL NOT BE GREATER THAN 5000 DEGREES KELVIN TEMPERATURE.
- I. INTERIOR LED LUMINARIES SHALL NOT BE GREATER THAN 4000 DEGREES KELVIN TEMPERATURE
2. ALL LED LAMPS SHALL COMPLY WITH APPLICABLE ANSI, IESNA, UL, AND NEMA STANDARDS.
3. ALL LED LUMINARIES SHALL HAVE A MINIMUM 5 YEAR WARRANTY
4. ALL LED LUMINARIES SHALL COMPLY WITH IMPLEMENTATION OF LED LIGHTING STANDARDS IN THE ENERGY STAR PROGRAMS: IE. TEST FOR QUALIFICATIONS, CONSTRUCTION OF NEW STANDARDS.
5. WHERE THEY ARE INDICATED, EXIT FIXTURES SHALL HAVE LED LAMPS AND SHALL HAVE LETTERS AT LEAST FIVE (5") INCHES HIGH ON A STENCIL WITH A RED TRANSLUCENT BACKGROUND

MANUFACTURERS

- A. CERTAIN ITEMS IN THIS SPECIFICATION ARE LISTED BY MANUFACTURER AND/OR MANUFACTURER'S MODEL NUMBER TO ESTABLISH GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF PRODUCT DESIRED. SIMILAR ITEMS MANUFACTURED BY OTHER THAN THOSE LISTED WILL BE CONSIDERED, PROVIDING SUBMITTALS ARE MADE ACCORDING TO PRE-BID APPROVAL REQUIREMENTS. WHERE FIXTURE DESCRIPTION PROVIDED IS IN CONFLICT WITH THE MODEL NUMBER PROVIDED, CONTRACTOR SHALL PROVIDE A LIGHT FIXTURE MEETING THE DESCRIPTION, NOT THE MODEL NUMBER.

- B. SEE LIGHTING FIXTURE SCHEDULE ON DRAWINGS.

INSTALLATION

- A. ALL RECESSED FIXTURES INSTALLED IN PLASTER CEILINGS SHALL BE FURNISHED WITH METAL PLASTER FRAMES.
- B. ELECTRICAL CONTRACTOR SHALL ADVISE GENERAL CONTRACTOR AS TO THE EXACT LOCATION OF ALL RECESSED FIXTURES SO THAT CEILING CONSTRUCTION AND/OR JOIST SPACING MAY BE COORDINATED AS NECESSARY TO PERMIT SYMMETRICAL POSITIONING OF FIXTURE IN EACH ROOM.
- C. IN ACOUSTICAL TILE CEILINGS, RECESSED FLUORESCENT FIXTURES SHALL BE INSTALLED SO AS TO ALLEVIATE THE NECESSITY FOR CUTTING THE TILE.
- D. TRIMS OF ALL RECESSED FIXTURES SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER SO AS TO FIT TIGHTLY AND EVENLY AGAINST THE SURFACE OF THE CEILING. ADAPTERS SHALL BE INSTALLED TO COMPENSATE FOR SLOPE CEILINGS.
- E. FOR ACOUSTICAL TILE CEILINGS, SURFACE FIXTURES SHALL BE CENTERED ON A TILE OR A TILE JOINT, UNLESS NOTED OTHERWISE.
- F. FIXTURES TO BE INSTALLED IN OR ON PAINTED CEILINGS AND/OR WALLS SHALL NOT BE INSTALLED UNTIL PAINTING IS COMPLETED. FIXTURES INSTALLED WITH PAINT APPLIED OVER FACTORY FINISHES WILL BE REJECTED.
- G. FOR ANY TYPE CEILING WHICH ITSELF DOES NOT PROVIDE SUFFICIENT SUPPORT FOR FIXTURES, SUPPORT FIXTURES FROM STRUCTURE ABOVE. LAY-IN TROFFERS IN GRID TYPE CEILINGS SHALL BE INSTALLED WITH AT LEAST 2 SUPPORTS ON DIAGONAL CORNERS.
- H. EXIT FIXTURES SHALL BE WALL MOUNTED (UNLESS CEILING MOUNTED IS REQUIRED FOR THE PARTICULAR LOCATION) ABOVE DOORS AS SHOWN ON DRAWINGS, AND SHALL BE MOUNTED SUCH THAT VIEWING ANGLES ARE MAXIMIZED.



JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

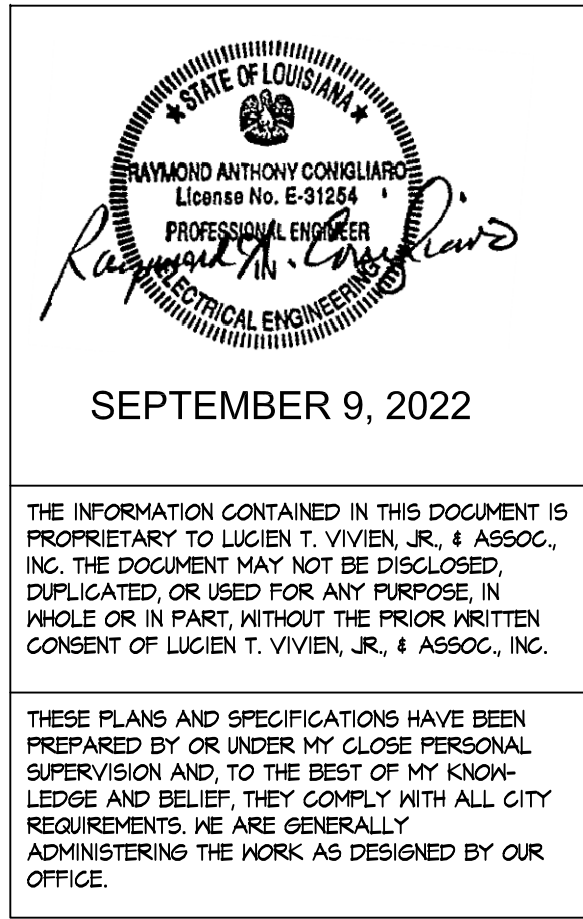
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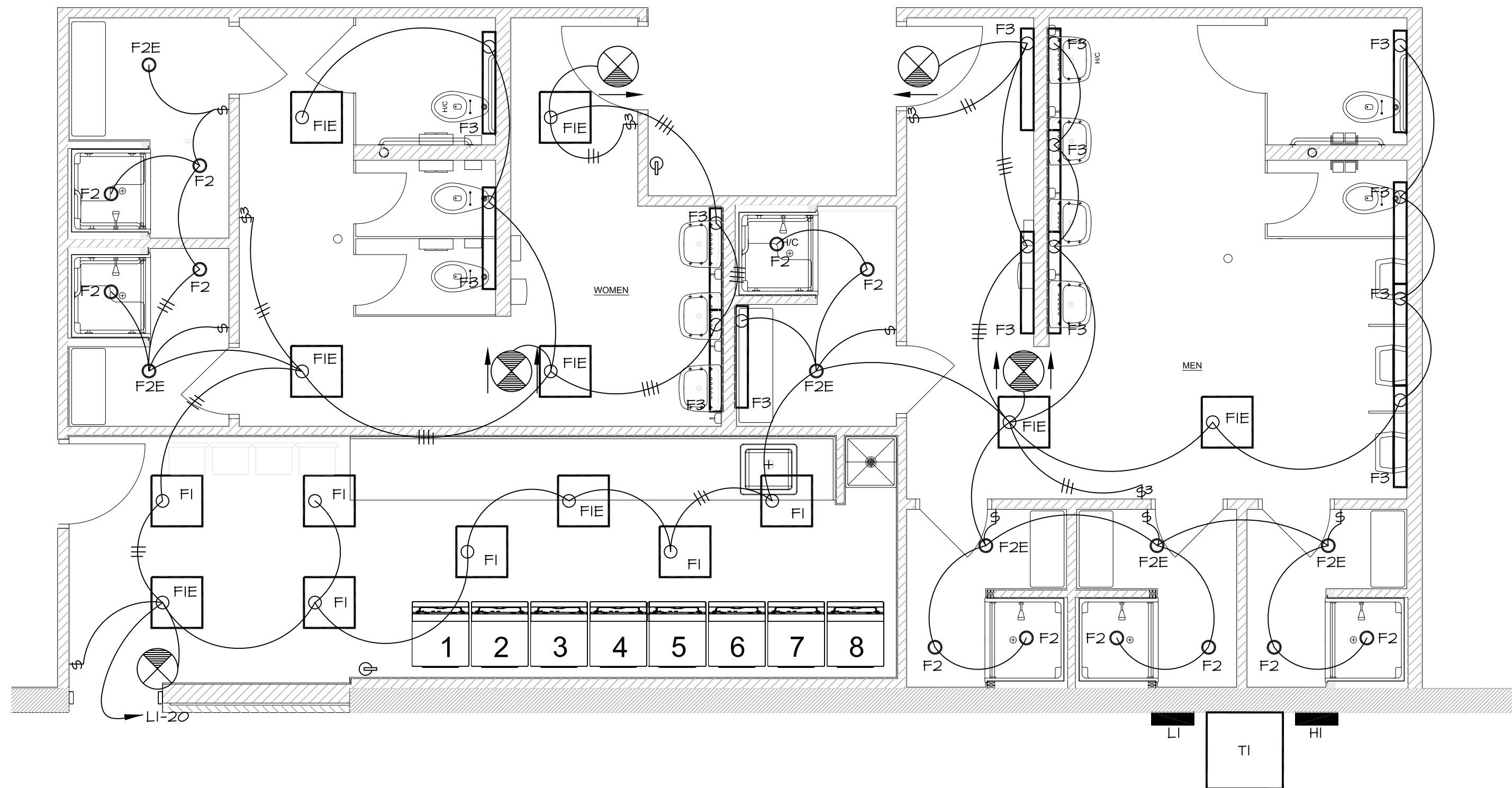
N-Y Proj No: 21008.01
Date: SEPTEMBER 9, 2022
Revised:
ELECTRICAL -
SPECIFICATIONS

DRAWN BY: LAR
CHECKED BY: RAC
DESIGNED BY: KEV

E-0.1

Sheet 2 of 4





FLOOR PLAN - LIGHTING

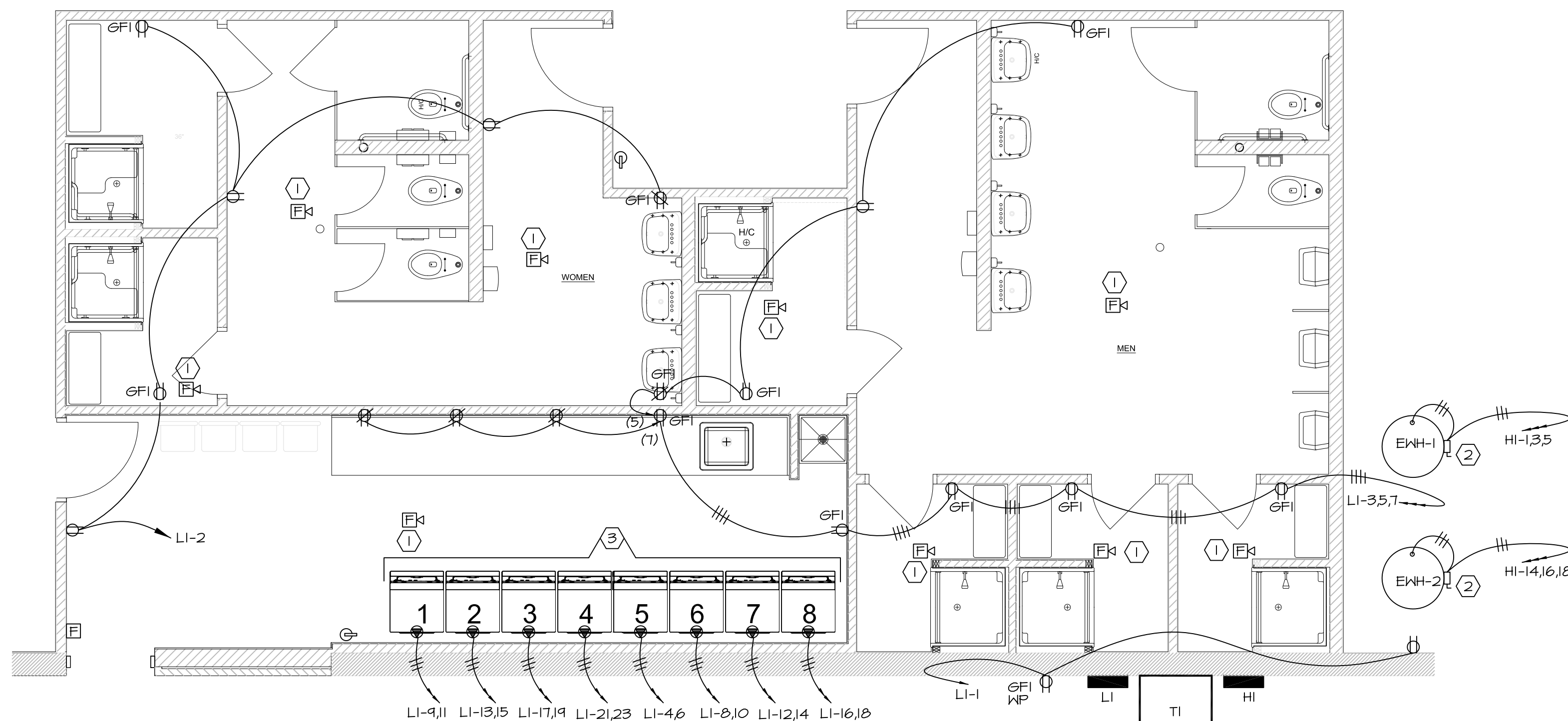
SCALE: 1/4"=1'-0"

GENERAL NOTES THIS SHEET:

- A. ALL RACEWAYS LESS THAN 10 FEET SHALL BE 1/2" C AND SHALL CONTAIN 2-#12 AWG AND 1-#12 GRD.; 10 FEET TO 120 FEET SHALL BE 3/4" C AND SHALL CONTAIN 2-#10 AWG AND 1-#10 GRD.; 120 FEET TO 200 FEET SHALL BE 1" C AND SHALL CONTAIN 2-#8 AWG AND 1-#8 GRD., UNLESS NOTED OTHERWISE.
- B. HATCH LINES DO NOT INDICATE GROUND WIRE.
- C. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION.
- D. PROVIDE UNISTRUT FRAMING AS REQUIRED FOR MOUNTING OF DISCONNECT SWITCHES.
- E. CONNECT ALL FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. VERIFY IN FIELD.

SPECIFIC NOTES THIS SHEET:

- ① CEILING MOUNTED DEVICE.
- ② ELECTRIC WATER HEATER WITHIN WAREHOUSE. 27 KW, 480V, 3Ø. PROVIDE 60A, 480V, 3P, NEMA 1 FDS, FUSE 45A. 3/4" C, 3-#8 AWG, 1-#10 GRD.
- ③ COMBINATION WASHER/DRYER UNIT. 30A, 120/208V, 1Ø RECEPTACLE. 1/2" C, 3-#10 AWG, 1-#10 GRD. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.



FLOOR PLAN - POWER AND SPECIAL SYSTEMS

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

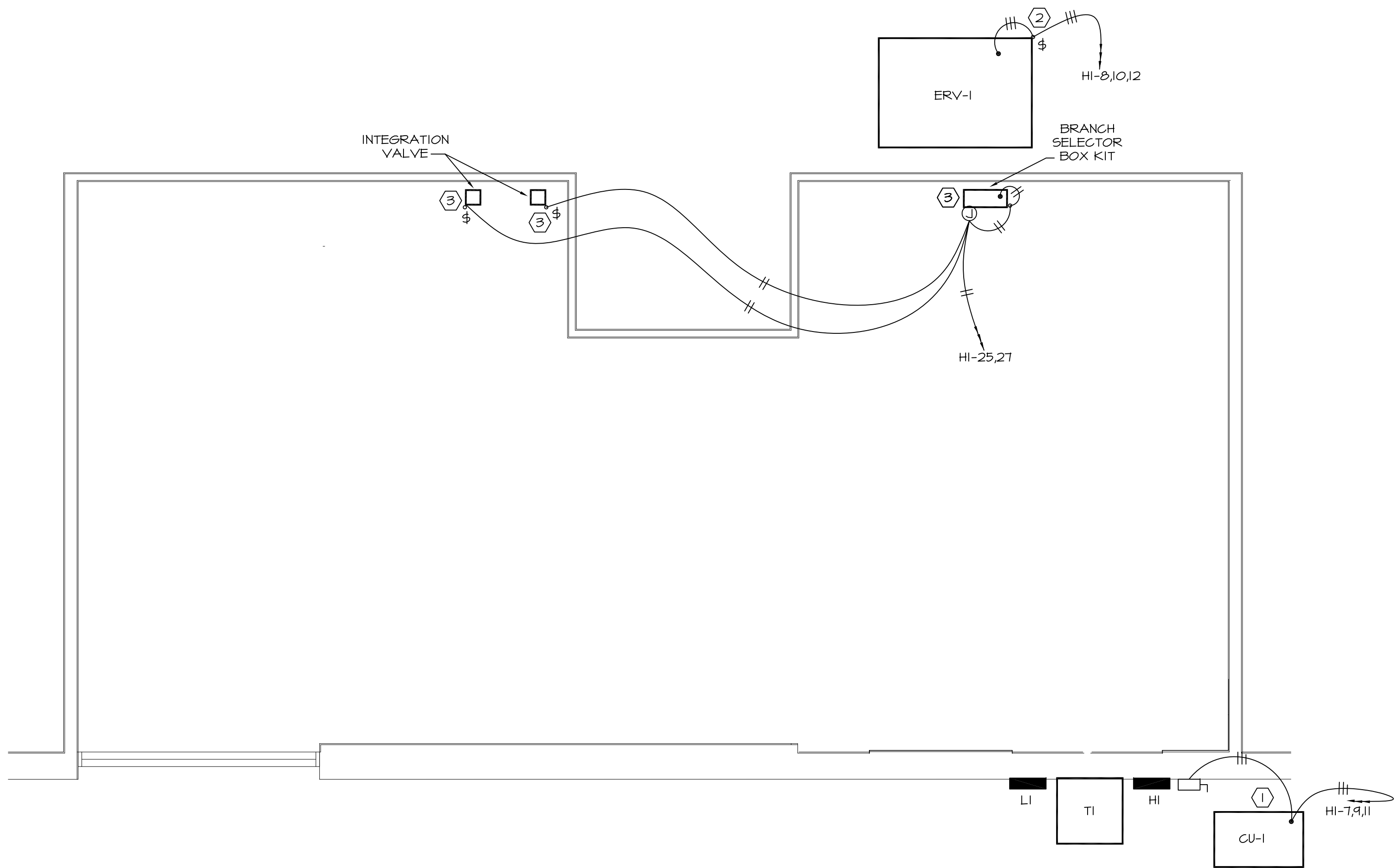
0 4 8 FT
GRAPHIC SCALE IN FEET



JUNE 9, 2023

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THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY CLOSE PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. WE ARE GENERALLY ADMINISTERING THE WORK AS DESIGNED BY OUR OFFICE.



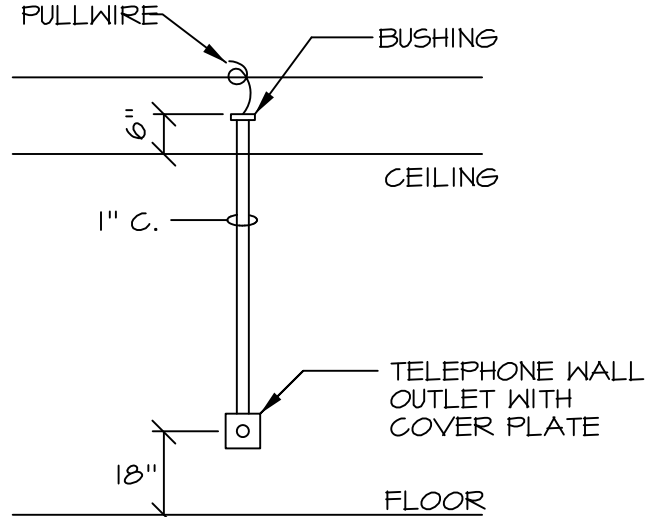
EQUIPMENT PLATFORM PLAN - POWER AND SPECIAL SYSTEMS

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

PROJECT NAME: JPSO WASHROOM										DATE: 04.21.2022									
LTV JOB #:										LOCATION EXTERIOR WALL									
PANEL: H1										MOUNTING NEMA 3R									
VOLTAGE: 480/277										PHASE: 3									
BUS AMPS: 400										WIRE: 4									
MAIN OVERCURRENT DEVICE TYPE: MCB										E= HVAC EQUIP. LOAD COOLING L= LIGHTING LOAD R= RECEPTACLE LOAD W= WATER HEATER K= KITCHEN EQ. M= MISC EQ. S= SPARES H = HVAC EQUIP. LOAD HEATING									
MAIN OVERCURRENT AMPS: 400																			
REMARKS: WITH GROUND BUS																			
CKT NO.	CIRCUIT NAME	BREAKER AMP	POLE	LOAD VA	USE	PH	USE	LOAD VA	BREAKER AMP	POLE	CIRCUIT NAME	CKT NO.							
1	EW-H1	45	3	9000	W	A	H	5813	30	3	CU-1B	2							
3				9000	W	B	H	5813				4							
5				9000	W	C	H	5813				6							
7	CU-1A	30	3	5813	E	A	E	2253	20	3	ERV-1	8							
9				5813	E	B	E	2253				10							
11				5813	E	C	E	2253				12							
13	XFMR T1	40	3	17000	M	A	W	9000	45	3	EW-H2	14							
15				17000	M	B	W	9000				16							
17				17000	M	C	W	9000				18							
19	SPARE	20	1	1060	S	A	S	1080	20	1	SPARE	20							
21	SPARE	20	1	1060	S	B	S	1080	20	1	SPARE	22							
23	SPARE	20	1	1060	S	C	S	1080	20	1	SPARE	24							
25	SPARE	20	1	1060	S	A	S	1080	20	1	SPARE	26							
27	SPARE	20	1	1060	S	B	S	1080	20	1	SPARE	28							
29	SPARE	20	1	1060	S	C	S	1080	20	1	SPARE	30							
31	SPARE	20	1	1060	S	A	S	1080	20	1	SPARE	32							
33	SPARE	20	1	1060	S	B	S	1080	20	1	SPARE	34							
35	SPARE	20	1	1060	S	C	S	1080	20	1	SPARE	36							
37	SPARE	20	1	1060	S	A	S	1080	20	1	SPARE	38							
39	SPARE	20	1	1060	S	B	S	1080	20	1	SPARE	40							
41	SPARE	20	1	1060	S	C	S	1080	20	1	SPARE	42							
				PHASE A	PHASE B	PHASE C	TOT CONN	DEMAND					DEM. LOAD						
HVAC COOLING LOAD (VA)				8066	8066	8066	24198	1					24198						
LIGHTING LOAD (VA)				0	0	0	0	0.8					0						
RECEPTACLE LOAD (VA)				0	0	0	0	0.8					0						
WATER HEATER LOAD (VA)				18000	18000	18000	54000	0.8					43200						
KITCHEN EQ. LOAD (VA)				0	0	0	0	0.8					0						
MISC EQ. LOAD (VA)				17000	17000	17000	51000	0.75					38250						
SPARES (VA)				8640	8640	8640	25920	0					0						
HVAC HEATING LOAD (VA)				5813	5813	5813	17438	0					0						
TOTAL LOAD AMPS =				57518.66667	57518.66667	57518.6667	172556						105648						
TOTAL CONN AMPS =				208				TOTAL DEMAND AMPS =				127							

PROJECT NAME: JPSO WASHROOM										DATE: 04 21 2022									
LTV JOB #:										LOCATION EXTERIOR WALL									
PANEL: L1										MOUNTING NEMA 3R									
VOLTAGE: 120/208										PHASE: 3									
BUS AMPS: 225										WIRE: 4									
MAIN OVERCURRENT DEVICE TYPE: MCB										E= HVAC EQUIP. LOAD COOLING L= LIGHTING LOAD R= RECEPTACLE LOAD W= WATER HEATER K= KITCHEN EQ. M= MISC EQ. S= SPARES H = HVAC EQUIP. LOAD HEATING									
MAIN OVERCURRENT AMPS: 200																			
REMARKS: WITH GROUND BUS																			
CKT NO.	CIRCUIT NAME	BREAKER AMP	POLE	LOAD VA	USE	PH	USE	LOAD VA	BREAKER AMP	POLE	CIRCUIT NAME	CKT NO.							
1	RECEPTACLES	20	1	500	R	A	R	1200	20	1	RECEPTACLES	2							
3	RECEPTACLES	20	1	1000	R	B	M	2496	30	2	WASHER/DRYER	4							
5	RECEPTACLES	20	1	600	R	C	M	2496				6							
7	RECEPTACLES	20	1	1200	R	A	M	2496	30	2	WASHER/DRYER	8							
9	WASHER/DRYER	30	2	2496	M	B	M	2496				10							
11				2496	M	C	M	2496	30	2	WASHER/DRYER	12							
13	WASHER/DRYER	30	2	2496	M	A	M	2496				14							
15				2496	M	B	M	2496	30	2	WASHER/DRYER	16							
17	WASHER/DRYER	30	2	2496	M	C	M	2496				18							
19				2496	M	A	L	1500	20	1	LIGHTING	20							
21	WASHER/DRYER	30	2	2496	M	B	E	125	20	2	AC-1A/AC-1B	22							
23				2496	M	C	E	125				24							
25	ERV CONTROL BOXES	20	2	500	E	A	S	1080	20	1	SPARE	26							
27				500	E	B	S	1080	20	1	SPARE	28							
29	SPARE	20	1	1080	S	C	S	1080	20	1	SPARE	30							
31	SPARE	20	1	1080	S	A	S	1080	20	1	SPARE	32							
33	SPARE	20	1	1080	S	B	S	1080	20	1	SPARE	34							
35	SPARE	20	1	1080	S	C	S	1080	20	1	SPARE	36							
37	SPARE	20	1	1080	S	A	S	1080	20	1	SPARE	38							
39	SPARE	20	1	1080	S	B	S	1080	20	1	SPARE	40							
41	SPARE	20	1	1080	S	C	S	1080	20	1	SPARE	42							
				PHASE A	PHASE B	PHASE C	TOT CONN	DEMAND					DEM. LOAD						
HVAC COOLING LOAD (VA)				500	625	125	1250	1					1250						
LIGHTING LOAD (VA)				1500	0	0	1500	0.8					1200						
RECEPTACLE LOAD (VA)				2900	1000	600	4500	0.8					3600						
WATER HEATER LOAD (VA)				0	0	0	0	1					0						
KITCHEN EQ. LOAD (VA)				0	0	0	0	0.8					0						
MISC EQ. LOAD (VA)				9984	14976	14976	39936	0.8					31944						
SPARES (VA)				5400	5400	6480	17280	0.75					12960						
HVAC HEATING LOAD (VA)				0	0	0	0	1					0						
TOTAL LOAD (VA)				20284	22001	22181	64466						50959						
TOTAL CONN AMPS =				179				TOTAL DEMAND AMPS =				142							

LIGHT FIXTURE SCHEDULE						
F1	Ledalite	33 22 D1 ST L 935 20 A 1 D E				
F1E	Ledalite	33 22 D1 ST L 935 20 A 1 D E EM			2 X 2 LED GRID FLAT PANEL TROFFER	
F2	Lightolier	4RN CAL 15 90 35 M Z10 U C4 R SL WH IEM6 EM			4" SHOWER DOWNLIGHT	
F2E	Lightolier	4RN CAL 15 90 35 M Z10 U C4 R SL WH IEM6 EM				
F3	Ledalite	7608 LB Q,N XX 7 D E T			4" DIRECT LED	
EX1	Emergillite	DKN 1 R			SINGLE FACE EMERGENCY EXIT	
	Consisting Of:	DKN 1 R			SINGLE FACE EMERGENCY EXIT	
EX2	Emergillite	DKN 2 R			DOUBLE FACE EMERGENCY EXIT	
	Consisting Of:	DKN 2 R			DOUBLE FACE EMERGENCY EXIT	



I - MECHANICAL GENERAL

SUMMARY

- A. THE WORK TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF LABOR, MATERIALS, EQUIPMENT, AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL MECHANICAL WORK AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
- B. MATERIALS AND EQUIPMENT SHALL BE NEW, EXCEPT WHERE OTHERWISE INDICATED, OF THE BEST QUALITY, WITH SAME BRAND OF MANUFACTURER FOR ALL SIMILAR MATERIAL, AS DEFINED IN THE SPECIFICATIONS AND ON DRAWINGS.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL CODES, STANDARDS, AND REQUIREMENTS OF THE INDUSTRY, AS DEFINED IN THE SPECIFICATIONS.
- D. REGARDLESS OF TITLES AND SUBDIVISIONS HEREIN EMPLOYED, CONSIDER THESE SPECIFICATIONS AS ONE COMPLETE DOCUMENT WITH GENERAL SECTION APPLYING TO ALL OTHER SECTIONS. ALL BIDDERS ARE CAUTIONED TO READ ENTIRE SPECIFICATIONS AND TO THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL REQUIREMENTS THEREOF.
- E. PROTECT OWNER AND HIS AGENTS INCLUDING ARCHITECT AND/OR ENGINEER FROM ANY AND ALL DAMAGES AND EXPENSE ARISING FROM FULFILLMENT OF CONTRACT AND AT COMPLETION OF WORK REPAIR ALL DAMAGES DONE.
- F. THE WORD "PROVIDE" AS USED IN THESE SPECIFICATIONS AND ON THE DRAWINGS SHALL BE TERMED TO MEAN "FURNISH AND INSTALL"
- G. CONTRACTOR SHALL INCLUDE IN BASE BID THE CONNECTION OF ALL SEWER, STORM DRAIN, AND WATER PIPING TO EXISTING MAINS AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INCLUDE ALL MATERIAL AND ALL COSTS FOR COMPLETE INSTALLATION.
- H. IF THE CONTRACTOR NOTICES DURING THE BIDDING ANY ITEMS OF THE CONTRACT DOCUMENTS WHICH WILL VIOLATE ANY APPLICABLE CODE, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE THE BID DATE. FAILURE TO BRING THESE ITEMS TO THE ATTENTION OF THE ARCHITECT / ENGINEER SHALL BE CONSTRUED AS EXPLICIT AGREEMENT THAT THE CONTRACTOR HAS INCLUDED IN HIS BID PRICE ANY AND ALL MODIFICATIONS NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH ALL APPLICABLE CODES.
- I. THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS APPLY TO THE WORK SPECIFIED IN THIS SECTION, AS DEFINED IN THE ARCHITECTURAL SPECIFICATIONS. SEPARATION OF SPECIFICATIONS INTO SECTIONS IS FOR CONVENIENCE ONLY AND IS NOT INTENDED TO ESTABLISH LIMITS OF WORK OR LIABILITY.
- J. ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING AND FIXTURE ITEMS NOT TO REMAIN IN OPERATION SHALL BE DISCONNECTED AND REMOVED UNDER THE DEMOLITION PHASE OF THE WORK. EQUIPMENT ITEMS SHALL BE TEMPORARILY STORED ON THE PROJECT SITE FOR OWNER TO INSPECT AND DECIDE WHICH ITEMS THAT THE OWNER WILL RETAIN OWNERSHIP.
- K. FURNISH ALL TOOLS, EQUIPMENT, SCAFFOLDING AND OTHER FACILITIES REQUIRED TO PROPERLY AND EXPEDITIOUSLY PERFORM THE WORK.
- L. THE MECHANICAL SECTION SHALL BE RESPONSIBLE FOR PROPER LOCATION AND SIZES OF ALL MECHANICAL CHASES, OR FOR ANY ERRORS OR OMISSION IN PLACING SAME. FAILURE TO INFORM THE GENERAL CONTRACTOR PROMPTLY OF SUCH REQUIREMENTS SHALL NOT RELIEVE THE MECHANICAL INSTALLER OF THE RESPONSIBILITY FOR PROVIDING A COMPLETE MECHANICAL SYSTEM.
- M. COOPERATE TO THE FULLEST EXTENT WITH ALL OTHER TRADES TO REDUCE TO A MINIMUM THE AMOUNT OF CUTTING AND PATCHING OF OTHER WORK NECESSARY FOR THIS INSTALLATION. DO NOT CUT OR PATCH THE WORK OF OTHER TRADES BUT ARRANGE TO PROVIDE CUTTING TEMPLATES IN TIME, OR OTHERWISE PAY THE RESPECTIVE OTHER CONTRACTORS FOR CHANGING THEIRS, TO ACCOMMODATE THIS WORK. NO CUTTING INTO ANY STRUCTURAL UNITS LIKELY TO IMPAIR THE STRENGTH SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT.
- N. REMOVE DEBRIS, SURPLUS AND WASTE MATERIALS, OIL, GREASE OR STAINS RESULTING FROM THE WORK PERFORMED AND LEAVE THE PREMISES IN A BROOM CLEAN CONDITION AT THE END OF EACH WORKING DAY. ALL DEBRIS, SURPLUS AND WASTE MATERIAL SHALL BE REMOVED COMPLETELY FROM THE JOB SITE.

RELATED SECTIONS

- A. ALL EXPOSED PIPING, DUCTWORK AND OTHER EQUIPMENT REQUIRING PAINTING SHALL BE AS SPECIFIED IN PAINTING SECTION. LEAVE ALL THESE SURFACES CLEAN OF OIL, DIRT, PLASTER, ETC., READY FOR PAINTING SECTION'S WORK.
- B. POWER WIRING FOR ALL EQUIPMENT SHALL BE AS SPECIFIED IN THE ELECTRICAL SECTION.
- C. PROVIDE APPROVED POWER WIRING DIAGRAMS SHOWING INTERLOCKING OF ALL EQUIPMENT AND CONTROLS, ASSISTING IN ALL WIRING PROBLEMS AFFECTING EQUIPMENT, CHECKING AND VERIFYING THAT SAME IS WIRED CORRECTLY AS REQUIRED IN THE ELECTRICAL SECTION FOR PROPER OPERATING OF ALL MECHANICAL ITEMS.
- D. ALL HEATING, AIR CONDITIONING, VENTILATING AND OTHER MECHANICAL SYSTEMS CONTROLS, STARTERS, FIRESTATS, RELAYS, AND RELATED EQUIPMENT SHALL BE AS SPECIFIED IN THE MECHANICAL SECTION.
- E. OPENING FOR ALL ACCESS DOORS, RELIEF AND RETURN AIR GRILLES, ETC., SHALL BE PROVIDED UNDER THE RESPECTIVE TRADE SECTIONS.
- F. CURBS, FLASHINGS, ETC., FOR EXHAUST FANS, VENTS, ETC., SHALL BE PROVIDED UNDER THE RESPECTIVE SECTIONS.
- G. ALL HVAC CONTROL WIRING SHALL BE AS SPECIFIED IN THE MECHANICAL SECTION.

SUBMITTALS

- A. SUBMIT TO THE ARCHITECT FOR REVIEW, WITHIN THIRTY (30) DAYS FROM AWARD OF CONTRACT, A DIGITAL PDF COPY OF THE COMPLETE DESCRIPTIVE INFORMATION AND DIMENSIONAL DATA ON ALL ITEMS OF EQUIPMENT, MATERIALS AND ACCESSORIES, AND DUCT AND EQUIPMENT LAYOUT. PIECEMAL SUBMISSIONS SHALL NOT BE APPROVED. WRITTEN APPROVAL THEREOF MUST BE OBTAINED BEFORE ORDERING OR INSTALLATION. THE FOLLOWING SHALL BE SUBMITTED:
- DUCTWORK LAYOUT SHOP DRAWINGS
PLUMBING FIXTURES
INSULATION
AIR CONDITIONING UNITS
TEMPERATURE CONTROLS AND BUILDING AUTOMATION
SPRINKLER INSTALLATION DRAWINGS INCLUDING FIRE MARSHAL SUBMITTAL
- B. DUCTWORK SHOP DRAWINGS SHALL INCLUDE ALL PIPING, ELECTRICAL FEEDERS AND SUB-FEEDERS AND ANY SPECIAL SYSTEMS RACEWAYS LARGER THAN 2 INCHES. DRAWINGS SHALL BE BASED ON MEASURED FIELD CONDITIONS AND OTHER TRADE SHOP DRAWINGS AND COORDINATION INFORMATION.
- C. SHOP DRAWINGS AND SUBMITTAL DATA SHALL BE CONSIDERED TO BE INSTRUMENTS OF SERVICE ONLY AND SUBMITTED FOR THE SOLE PURPOSE OF CONVENIENCE TO THE CONTRACTOR TO ASSIST HIM IN THE PERFORMANCE OF THE CONTRACT. THE ARCHITECT'S REVIEW OF THE SHOP DRAWINGS AND SUBMITTAL DATA SHALL NOT SUPERSEDE THESE SPECIFICATIONS, THE ACCOMPANYING DRAWINGS, OR THE CONTRACT TERMS, UNLESS SPECIFICALLY COVERED BY A PROPERLY EXECUTED CHANGE ORDER, AND THEN ONLY TO THE EXTENT SPECIFICALLY AND EXPLICITLY STIPULATED THEREIN.
- D. ALL MATERIAL, EQUIPMENT, METHODS, AND ACCESSORIES ENTERING INTO THE WORK UNDER THIS SECTION OF CONTRACT ARE SUBJECT TO APPROVAL OR DISAPPROVAL OF THE ARCHITECT. APPROVAL OF ANY MANUFACTURER, MATERIAL, OR PRODUCT SHALL NOT CONSTITUTE A WAIVER OF ARCHITECT'S RIGHT TO DEMAND FULL COMPLIANCE WITH CONTRACT REQUIREMENTS, INCLUDING SHAPE, SIZE, QUALITY AND PERFORMANCE. EQUALITY OF MATERIALS IS THAT ESTABLISHED BY OPINION OF ARCHITECT AND/OR ENGINEER. DECISION OF ARCHITECT AND/OR ENGINEER IS FINAL.
- E. WHENEVER A MATERIAL OR ARTICLE OF EQUIPMENT IS SPECIFIED BY USE OF A PROPRIETARY NAME, OR BY NAMING THE MANUFACTURER OR VENDOR, ANY MATERIAL OR ARTICLE WHICH WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE DESIGN WILL BE CONSIDERED FOR SUBSTITUTION, PROVIDING IT IS OF EQUAL SUBSTANCE, AND FUNCTION, MEETS SPECIFICATIONS, AND IS ESTHETICALLY ACCEPTABLE TO THE ARCHITECT. LITERATURE, TECHNICAL DATA, ETC., INCLUDES COMPLETE DATA AND SAMPLES IF NECESSARY, WITH SUBMISSIONS FOR SUBSTITUTIONS. BURDEN OF PROOF THAT MATERIAL OFFERED FOR SUBSTITUTION IS EQUAL, OR SUPERIOR, IN CONSTRUCTION AND EFFICIENCY TO THAT NAMED, RESTS ON CONTRACTOR, AND UNLESS PROOF IS SATISFACTORY TO ARCHITECT, SUBSTITUTION WILL NOT BE APPROVED.
- F. SEE SPECIFICATIONS FOR "RECORD DRAWINGS" REQUIREMENTS.

QUALITY ASSURANCE

- A. THE CONTRACTOR BIDDING ON THIS PORTION OF THE WORK MUST BE FULLY EXPERIENCED IN INSTALLATIONS OF EQUAL SIZE, COMPLEXITY, AND QUALITY, AND MUST BE LICENSED TO PERFORM SUCH WORK AS REQUIRED BY THE LOUISIANA STATE LEGISLATURE, R.S.37:2152-2163.

I - MECHANICAL GENERAL (CONT'D.)

- B. BIDDING ACKNOWLEDGES THAT CONTRACTOR FULLY UNDERSTANDS THE SCOPE OF WORK AND DESIGN, AND HAS THE ABILITY FOR THE CONTRACT PRICE TO ASSEMBLE AND INSTALL THE EQUIPMENT, PIPING, AND DUCTWORK SHOWN OR SPECIFIED, SO AS TO MOLD SAME INTO A SATISFACTORY WORKABLE SYSTEM AND ARRANGEMENT.
- C. CONTRACTOR SHALL RECOGNIZE THAT A FAULT OR ERROR IN HIS WORK REMAINS HIS RESPONSIBILITY REGARDLESS OF WHETHER SUCH DIFFICULTY WAS DISCOVERED AFTER THE WORK HAD PROGRESSED, AND SHALL MAKE CORRECTIONS AT NO COST TO THE OWNER.
- D. ADEQUATE AND COMPETENT CONSTANT SUPERVISION SHALL BE PROVIDED BY CONTRACTOR TO ASSURE THAT WORK IS DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL RECOGNIZE THAT AMOUNT OF INFORMATION AND DETAIL COULD BE PROVIDED TO CONTRACT DOCUMENTS IS LIMITLESS AND COULD EXTEND INTO EVERY MINUTE DETAIL AND SEQUENCE OF OPERATIONS, TO A POINT WHERE ONLY WORKMEN WOULD BE REQUIRED, WITHOUT DRAWING ON ABILITY, EXPERIENCE AND INGENUITY OF THE CONTRACTOR.
- E. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE, WITH ALL EXISTING LOCAL AND STATE CODES AND ORDINANCES, AND WITH NATIONAL BOARD OF FIRE UNDERWRITERS.
- F. THIS CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AND PAY ALL FEES AND TAXES AND SHALL PROVIDE OWNER WITH CERTIFICATES OF APPROVAL FROM AGENCIES HAVING JURISDICTION OVER VARIOUS PHASES OF THE WORK.
- G. TAKE NECESSARY PRECAUTIONS TO PROTECT ALL MATERIAL, EQUIPMENT, APPARATUS AND WORK FROM DAMAGE. FAILURE TO DO SO TO THE SATISFACTION OF THE ENGINEER WILL BE SUFFICIENT CAUSE FOR THE REJECTION OF THE MATERIAL, EQUIPMENT OR WORK IN QUESTION. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF THE MATERIALS INSTALLED UNTIL FINAL ACCEPTANCE BY THE OWNER.

PROJECT CONDITIONS

- A. ACCOMPANYING DRAWINGS, INCLUDING PLANS, DETAILS, DIAGRAMS, NOTES, ETC., ARE SHOWN TO LIMIT AND EXPLAIN STRUCTURAL CONDITIONS, CONSTRUCTION REQUIREMENTS, SIZES, CAPACITIES AND METHOD OF INSTALLATION AND ERECTION. STRUCTURAL AND OTHER CONDITIONS MAY REQUIRE CERTAIN MODIFICATIONS AND ADJUSTMENTS FROM CONDITIONS SHOWN. SUCH DEVIATIONS ARE PERMISSIBLE; HOWEVER, SPECIFIC SIZES CAPACITIES AND REQUIREMENTS AFFECTING THE SATISFACTORY PERFORMANCE AND OPERATION OF THE INSTALLATION SHALL REMAIN UNCHANGED. MAKE ALLOWANCE FOR NORMAL JOB CONDITIONS AND INTERFERENCES.
- B. WHENEVER IT BECOMES NECESSARY TO SHIFT DUCTS OR PIPES OR TO CHANGE SHAPE OF DUCTS, SUCH CHANGES SHALL BE REFERRED TO ARCHITECT AND/OR ENGINEER FOR APPROVAL.
- C. ASK FOR DETAILS WHENEVER UNCERTAIN ABOUT METHOD OF INSTALLATION. LACK OF DETAILS NOT REQUESTED SHALL NOT EXCUSE IMPROPER INSTALLATION AND CORRECTION SHALL BE RESPONSIBILITY OF CONTRACTOR.
- D. FURNISH DETAILED DUCT LAYOUT AND EQUIPMENT ROOM SHOP DRAWINGS BASED ON FIELD MEASUREMENTS AND ACTUAL JOB CONDITIONS.
- E. ALL PIPING, CLEANOUTS AND COVERS, AND OTHER MECHANICAL ITEMS IN WAY OF CONSTRUCTION OR REMODELING, SHALL BE REROUTED, RELOCATED OR OTHERWISE ADJUSTED TO WORK OUT WITH SUCH CONSTRUCTION OR CHANGES SHOWN OR SPECIFIED IN ANY OR ALL OF VARIOUS SECTIONS OF SPECIFICATIONS. UNKNOWN PIPING THAT IS ENCOUNTERED WILL BE REFERRED IMMEDIATELY TO ARCHITECT FOR METHOD OF DISPOSITION BEFORE CONTINUATION OF WORK.

GUARANTEE AND SERVICE

- A. GUARANTEE ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FOLLOWING DATE OF ACCEPTANCE.
- B. DURING THE PERIOD OF GUARANTEE ANY DEFECTS IN EQUIPMENT, MATERIALS, OR WORKMANSHIP SHALL BE PROMPTLY CORRECTED WITHOUT COST TO THE OWNER.
- C. GUARANTEE INCLUDES EQUIPMENT CAPACITY AND PERFORMANCE RATINGS SPECIFIED WITHOUT EXCESSIVE NOISE LEVELS. ANY DEFICIENCIES IN EQUIPMENT CAPACITY SPECIFIED SHALL BE PROMPTLY CORRECTED. GUARANTEE DOES NOT INCLUDE MAINTENANCE ITEMS.

ACCESS PANELS

- A. PROVIDE ALL ACCESS PANELS NECESSARY FOR PROPER ACCESS TO VALVES, TRAPS, FIXTURE CONNECTIONS, CONTROL DEVICES OR OTHER ITEMS INSTALLED UNDER THIS CONTRACT. EXACT LOCATIONS FOR PANELS TO BE DIRECTED BY ARCHITECT.
- B. PANELS TO BE MILCOR, MATHBROOK, OR KARP HINGED WITH SCREWDRIVER LOCK OR AS INDICATED ON DRAWINGS FOR SPECIAL LOCATIONS.
- C. PANELS IN PAINTED SURFACES SHALL BE PRIME COATED STEEL TO MATCH ADJACENT SURFACES. PANELS SHALL BE KARP MODEL DSC-214M OR APPROVED EQUAL.
- D. PANELS IN TILE WALLS SHALL BE STAINLESS STEEL WITH #4 SATIN POLISH, KARP MODEL DSC-214M-SS OR APPROVED EQUAL.
- E. MINIMUM SIZE PANELS SHALL BE AS FOLLOWS:
WALL CLEANOUT - 12" X 18"
WALL VALVE - 12" X 12"
EQUIPMENT AND DAMPER ACCESS - 24" X 30"

TESTING AND INSTRUCTION

- A. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVE. WHERE PIPES OR CONNECTIONS IN NEW PIPING ARE FOUND TO LEAK, THEY SHALL BE MADE TIGHT AND THE TESTS REPEATED.
- B. MAKE ALL NECESSARY ADJUSTMENTS TO CONTROLS, DAMPERS, VALVES, ETC., TO OBTAIN BEST OPERATION FIRST WITH EMPTY BUILDING AND LATER UNDER ACTUAL CONDITIONS.
- C. THOROUGHLY CHECK THE OPERATION OF EACH ITEM OF EQUIPMENT AND CONTROLS WHILE TESTING, WITHOUT WAITING FIRST FOR THE OWNER OR ARCHITECT TO COMPLAIN ABOUT THEIR OPERATION. VERIFY THAT SAME ARE WIRED CORRECTLY AND COMPLETELY, NOTIFYING THE PROPER PARTIES FOR NECESSARY CORRECTIONS. THOROUGHLY INSTRUCT THE OWNER'S REPRESENTATIVE IN THE OPERATION AND CARE OF CONTROLS, INDIVIDUAL EQUIPMENT, AND ENTIRE SYSTEM.
- D. PROVIDE ENGINEER WITH A DIGITAL PDF COPY OF THE BALANCE REPORTS AS HEREINAFTER SPECIFIED.
- E. AFTER ADJUSTMENT PERIOD AND BEFORE ACCEPTANCE REPLACE ALL AIR FILTERS, IN UNITS SERVING THE PROJECT SPACE, WITH SPECIFIED TYPE.

COMMISSIONING

- A. CONTRACTOR SHALL INSTALL ALL ITEMS OF EQUIPMENT AS IDENTIFIED IN THIS SPECIFICATION IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS (WHETHER IDENTIFIED IN THIS SPECIFICATION OR NOT), SHOP DRAWINGS AND CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL AND BUILDING TEMPERATURE CONTROL SYSTEM CONTRACTORS TO INSURE A COMPLETE INSTALLATION. START-UP SERVICES SHALL BE PROVIDED FOR AS LONG A PERIOD OF TIME AS IS NECESSARY TO INSURE PROPER OPERATION OF THE EQUIPMENT ITEMS. THE START-UP TECHNICIAN SHALL CONDUCT ALL OPERATING TESTS AS REQUIRED TO INSURE THE EQUIPMENT IS OPERATING IN ACCORDANCE WITH DESIGN PARAMETERS. COMPLETE TESTING OF ALL SAFETY AND EMERGENCY CONTROL DEVICES SHALL BE MADE. THE START-UP TECHNICIAN SHALL SUBMIT A WRITTEN REPORT TO THE ENGINEER (PRIOR TO FINAL PUNCH LIST INSPECTION) CONTAINING ALL TEST DATA RECORDED AS REQUIRED ABOVE AND A LETTER CERTIFYING THAT THE EQUIPMENT IS OPERATING PROPERLY.
- B. OTHER SPECIFIC ITEMS OF COMMISSIONING SHALL BE AS FOLLOWS:
1. VISUALLY INSPECT INSULATION SYSTEM TO VERIFY THAT INSULATION IS CONTINUOUS AND VAPOR BARRIER IS COMPLETE. VERIFY THERE IS NO CONDENSATION OR HOT SPOTS.
2. DUCTWORK SHALL BE TESTED AS HERE IN SPECIFIED.
3. VIBRATION ISOLATION SHALL BE TESTED BY RUNNING EQUIPMENT AND CHECKING DEFLECTION OF SPRING ISOLATORS. MAKE ADJUSTMENTS AS REQUIRED. NO ISOLATOR SHALL BE FULLY COMPRESSED.
4. FIRE SUPPRESSION SYSTEM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA-13 AND 24 REQUIREMENTS.

I - MECHANICAL GENERAL (CONT'D.)

5. INSURE MECHANICAL SYSTEMS OPERATE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. HEATING AND COOLING MODES OF HVAC EQUIPMENT SHALL BE TESTED. ACTUAL VALUES OF TEMPERATURE AND HUMIDITY IN SPACE SHALL BE CHECKED AGAINST SETPOINT VALUES AND DEVIATIONS SHALL BE CORRECTED.
6. PROVIDE WRITTEN REPORTS FOR ALL STARTUP AND COMMISSIONING TESTS OF (ITEMS ABOVE) FOR ENGINEER REVIEW PRIOR TO **START** OF FINAL PUNCH LIST INSPECTION.

II - PLUMBING AND HVAC INSULATION

SUMMARY

- A. PROVIDE A COMPLETE SYSTEM OF INSULATION, AS HEREIN SPECIFIED, FOR BOTH INSIDE AND OUTSIDE OF BUILDING.
- B. THE GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS APPLY TO THE WORK SPECIFIED IN THIS SECTION.
- C. REFER TO MECHANICAL GENERAL SECTION WHICH IS APPLICABLE TO THIS SECTION.
- D. INSULATION SHALL INCLUDE INSULATING MATERIALS, THEIR APPLICATIONS, FINISH, BANDS, TIE WIRE AND WEATHER PROTECTION FOR ALL PIPING, FITTINGS, VALVES, AND EQUIPMENT AS INDICATED AND SPECIFIED HEREIN.

GENERAL

- A. ALL INSULATION SHALL BE APPLIED IN A WORKMANLIKE MANNER BY SKILLED WORKMEN REGULARLY ENGAGED IN THIS TYPE OF WORK.
- B. ALL PIPE INSULATION SHALL HAVE COMPOSITE FLAME AND SMOKE HAZARD RATINGS AS TESTED IN ACCORDANCE WITH STANDARD TESTING METHODS (NFPA) 255 AND UL 723).
- C. COMPOSITE RATINGS SHALL NOT EXCEED: FLAME SPREAD 25, SMOKE DEVELOPED 50.
- D. ACCESSORIES SUCH AS ADHESIVE, MASTIC, CEMENT, TAPES AND ASBESTOS CLOTH SHALL HAVE THE SAME COMPONENT RATINGS AS LISTED ABOVE.
- E. THE INSULATION CONTRACTOR SHALL CERTIFY IN WRITING, PRIOR TO INSTALLATION, THAT ALL PRODUCTS TO BE USED WILL MEET THE ABOVE CRITERIA.

DUCT INSULATION

- A. DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA SIZES. SEE HVAC SYSTEMS SECTION FOR INSULATION AND DUCT MATERIAL AND TYPE REQUIRED FOR EACH APPLICATION. INSULATION SHALL BE AS PER THE FOLLOWING:
- B. LINED DUCT SYSTEM - ALL LINED DUCTS SHALL BE LINED WITH KNAUF DUCT LINER E-M, OWENS CORNING, JOHNS MANVILLE, OR APPROVED EQUAL. DUCT LINING SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA'S "HVAC DUCT CONSTRUCTION STANDARD METAL & FLEXIBLE." MECHANICAL FASTENERS SHALL MEET "STANDARDS FOR MECHANICAL FASTENERS MF-1-1975." LENGTH OF MECHANICAL FASTENERS SHALL NOT COMPRESS THE INSULATION MORE THAN 1/8" AND SHALL BE INSTALLED PERPENDICULAR TO THE DUCT SURFACE. ADHESIVE SHALL CONFORM TO ASTM C 916 AND BE APPLIED TO THE SHEET METAL WITH A 90% MINIMUM COVERAGE. ALL EXPOSED EDGES OF THE DUCT LINER MATERIAL SHALL BE COATED WITH THE SAME ADHESIVE. ALL RIPS AND TEARS SHALL ALSO BE REPAIRED USING ADHESIVE. ALL INTERNAL DUCT AREAS SHALL BE COVERED WITH DUCT LINER. TRANSVERSE JOINTS SHALL BE FIRMLY BUTTED WITH NO GAPS, AND COATED WITH ADHESIVE. LONGITUDINAL CORNER JOINTS SHALL BE OVERLAPPED AND COMPRESSED. FOR VELOCITIES FROM 4001 TO 6000 FPM, METAL NOSING SHALL BE APPLIED TO ALL UPSTREAM TRANSVERSE EDGES TO ADDITIONALLY SECURE THE INSULATION. LINED DUCT INSULATION SHALL ONLY BE INSTALLED WHERE INDICATED ON DRAWINGS. ALL DUCTWORK THAT IS INSTALLED WITH INTERIOR LINER SHALL ALSO BE WRAPPED WITH THE EXTERIOR DUCT WRAP INSULATION AS HERE IN AFTER SPECIFIED.
- C. EXTERIOR DUCT WRAP - EXTERIOR INSULATION DUCT WRAP SHALL BE 2" THICK 1.5 PCF FIBERGLASS DUCT WRAP WITH A MINIMUM OUT OF PACKAGE "R" VALUE OF 8.0 HR-FT2DEG F/BTU, AS LISTED IN MANUFACTURER'S DATA LITERATURE, AND WITH F.S.K. JACKET, KNAUF-JOHNS MANVILLE, OWENS CORNING, OR APPROVED EQUAL. AT CONTRACTOR'S OPTION DUCT WRAP MAY BE A MINIMUM 2.33 INCHES THICK, .75 PCF, WITH A MINIMUM OUT OF PACKAGE "R" VALUE OF 8.0 HR-FT2DEG F/BTU, AS LISTED IN MANUFACTURER'S DATA LITERATURE, AND WITH F.S.K. JACKET. PROVIDE VINYL JACKET WHERE EXPOSED IN EQUIPMENT ROOMS. WHERE DUCTWORK IS NOTED ON THE DRAWINGS, TO BE DOUBLE WRAPPED, PROVIDE TWO LAYERS OF THE EXTERIOR WRAP INSULATION, WITH EACH LAYER BEING COMPLETELY INSTALLED AND SEALED.

DOMESTIC WATER PIPING ABOVE GROUND

- A. INSULATE ALL NEW ABOVE GROUND DOMESTIC WATER PIPE WITH GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE ALL SERVICE JACKET, WITH SELF-SEALING LAP (ASJ-SSL) AS MANUFACTURED BY KNAUF, OWENS CORNING, JOHNS MANVILLE, OR APPROVED EQUAL.
- B. INSULATE FITTINGS, FLANGES AND VALVES WITH PERFORMED INSULATION WITH PVC PREMOLDED ONE-PIECE FITTING COVERS, WITH FIBERGLASS INSERTS, PROTO COVERS, OR APPROVED EQUAL. PREMOLDED OR SHOP FABRICATED GLASS FIBER COVERS MAY BE USED IN LIEU OF ABOVE AT THE CONTRACTOR'S OPTION. OPTIONAL COVERS TO BE GIVEN A SMOOTHING COAT OF FINISHING CEMENT, RYDER "V" ONE COAT, OR APPROVED EQUAL, IN EXPOSED AREAS AND VAPOR SEALED IN ALL AREAS WITH VAPOR BARRIER MASTIC COATING. FOSTER 30-35, OR APPROVED EQUAL, REINFORCED WITH WHITE GLASS FABRIC.
- C. INSULATION THICKNESS FOR ALL COLD WATER PIPING TO BE ½ INCH.
- D. ALL NEW DOMESTIC HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE INSULATED IN ACCORDANCE WITH THE SCHEDULE BELOW.

	PIPE DIAMETER	INSULATION THICKNESS
RUNOUTS TO INDIVIDUAL FIXTURES, NOT EXCEEDING 12 FEET IN LENGTH	up to 2"	½"
ALL MAINS, BRANCHES	2" AND LESS	1"
ALL OTHER PIPING	2½" TO 4"	1½"

- E. PROVIDE AN ISOLATING VAPOR SEAL BETWEEN PIPE INSULATION JACKET AND PIPE AT BUTT JOINTS OF INSULATION AT FITTINGS, FLANGES, VALVES, HANGERS AND AT 21 FOOT INTERVALS ON CONTINUOUS RUNS. USING FOSTER 30-35 VAPOR BARRIER MASTIC COATING, OR APPROVED EQUAL.
- F. ADHERE LONGITUDINAL LAPS AND BUTT STRIPS OF JACKET WITH FACTORY APPLIED PRESSURE SENSITIVE TAPE SYSTEM, AS MANUFACTURED BY KNAUF, OWENS CORNING, OR APPROVED EQUAL.

AIR CONDITIONING DRAIN PIPING

- A. INSULATE ALL AIR CONDITIONING CONDENSATE DRAINS, PIPE, FITTINGS, FLANGES AND VALVES WITH FLEXIBLE FOAMED PLASTIC TUBING INSULATION, J-M AEROTUBE 11, NOMACO K-FLEX, OR APPROVED EQUAL. THICKNESS TO BE 3/4 INCH.
- B. INSULATE ALL HORIZONTAL SEWER, WASTE PIPING ABOVE GROUND THAT RECEIVES A/C CONDENSATE FROM DRAIN TO VERTICAL STACK. ALSO INSULATE THE "P" TRAP OF THOSE DRAINS. INSULATION SHALL BE SAME AS SPECIFIED FOR ABOVE GROUND DOMESTIC COLD WATER PIPING, FITTING FLANGES AND VALVES EXCEPT THICKNESS SHALL BE 1/2 INCH FOR ALL PIPE SIZES.
- C. INSULATE ALL HORIZONTAL STORM DRAIN PIPING ABOVE GROUND THAT RECEIVES A/C CONDENSATE FROM DRAIN TO VERTICAL STACK. INSULATION SHALL BE SAME AS SPECIFIED FOR ABOVE GROUND DOMESTIC COLD WATER PIPING, FITTING FLANGES AND VALVES EXCEPT THICKNESS SHALL BE 1/2 INCH FOR ALL PIPE SIZES.

WORKMANSHIP AND INSTALLATION

- A. ALL INSULATION SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
- B. INSULATION SHALL BE APPLIED OVER CLEAN DRY SURFACES AFTER ALL TEST HAVE BEEN PERFORMED AND APPROVED.
- C. METHODS OF APPLICATION AND OTHER DETAILS NOT SPECIFIED HEREIN SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, WHICH SHALL CONSTITUTE MINIMUM STANDARDS.
- D. SHEET METAL SADDLES - 10" LONG SHALL BE PROVIDED ON ALL HANGERS SUPPORTING INSULATED LINES. THEY SHALL BE FABRICATED TO CONFORM WITH THE OUTSIDE DIAMETER OF THE PIPE COVERING AND SHALL BE FABRICATED FROM 22 GAUGE SHEET IRON FOR PIPE THROUGH 2-1/2" 20 GAUGE SHEET IRON FOR PIPES THROUGH 8" AND 16 GAUGE FOR ALL PIPES OVER 8".
- E. A RIGID INSULATION MATERIAL SHALL BE USED AT EACH PIPE HANGER AS AN INSERT AND THE PIPE COVERING SHALL PASS FULL THICKNESS THROUGH THE HANGERS.



JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

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N-Y Proj No: 21008.01
Date: SEPTEMBER 9, 2022
Revised:
MECHANICAL -
SPECIFICATIONS

DRAWN BY: LAR
CHECKED BY: DEV
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Sheet 1 of 7

II - PLUMBING AND HVAC INSULATION (CONT'D.)

F. ON ALL OUTDOOR PIPING, ABOVE GROUND, INSULATION PROVIDE ALUMINUM JACKET 0.016 INCH THICK WITH LONGITUDINAL Z-JOINT SECURED WITH PREFORMED 2" WIDE BUTT STRIPS, AS MANUFACTURED BY KNAUF, OWENS CORNING, OR APPROVED EQUAL. PROVIDE PREFORMED ALUMINUM FITTING COVER ON ALL FITTINGS

III - PLUMBING

SUMMARY

- A. FURNISH AND INSTALL NEW FIXTURES, WASTE, VENT, COLD WATER AND HOT WATER PIPING SHOWN ON PLANS.
- B. CONNECTIONS OF ALL EQUIPMENT AND FIXTURES WITH ACCESSORY FITTINGS, SHUT-OFF VALVES, TRIMMINGS, TRAPS, STRUCTURAL SUPPORTS, INSULATION, ETC., AS HEREIN SPECIFIED AND/OR AS SHOWN ON DRAWINGS.
- C. INCLUDE (BUT NOT NECESSARILY LIMITED TO) THE FOLLOWING ITEMS OF MECHANICAL EQUIPMENT, FIXTURES AND MATERIALS INSTALLED AND IN OPERATING CONDITION:
1. ALL LABOR, MATERIALS, EQUIPMENT, ACCESSORIES, AND MISCELLANEOUS ITEMS REQUIRED TO PROVIDE A COMPLETE PLUMBING SYSTEM. PROVIDE SUPERVISION AT ALL TIMES DURING THE PROGRESS OF THE WORK.
2. ALL PLUMBING FIXTURES, TRIM AND HANGERS FOR SAME AS SPECIFIED HEREIN AND WHERE SHOWN ON THE MECHANICAL DRAWINGS.
3. ALL SEWER, WASTE AND VENT PIPING AND ALL CLEANOUTS NECESSARY FOR A COMPLETE OPERATION INSTALLATION AS SHOWN ON MECHANICAL DRAWINGS, OR AS REQUIRED BY THE STATE AND LOCAL SANITARY CODES.
4. PROVIDE NEW SEWER AND GREASY WASTE CONNECTIONS TO EXISTING SERVICE MAINS AS SHOWN ON THE DRAWINGS. PAY ALL ASSESSED COSTS.
5. PROVIDE NEW WATER CONNECTIONS TO EXISTING SERVICE MAINS AS SHOWN ON THE DRAWINGS. PAY ALL ASSESSED COSTS.
6. PROVIDE NEW GAS CONNECTIONS TO EXISTING SERVICE MAINS AS SHOWN ON THE DRAWINGS. PAY ALL ASSESSED COSTS.
7. CONTRACTOR SHALL UNCRATE ALL OWNER FURNISHED PLUMBING EQUIPMENT AND INSTALL AND ADJUST SAME. PROVIDE ALL PIPING AND VALVES REQUIRED.
- D. REFER TO MECHANICAL GENERAL WHICH IS APPLICABLE TO THIS SECTION.

MANUFACTURERS

PROVIDE PLUMBING FIXTURES AND ACCESSORIES FOR WORK IN THIS SECTION MEETING THE REQUIREMENTS OF THOSE SPECIFIED.

SANITARY SEWER PRODUCTS

- A. UNDER THE BUILDING SLAB AND ABOVE GROUND INSIDE THE BUILDING ALL SOIL, WASTE AND VENT PIPING 2" IN SIZE AND LARGER SHALL BE SERVICE WEIGHT CAST-IRON, BELL AND SPIGOT. ALL CAST-IRON LINES SHALL HAVE NEOPRENE GASKETS. ALL WASTE AND VENT LINES 1-1/2" IN SIZE AND SMALLER SHALL BE GALVANIZED STEEL CAST-IRON DRAINAGE FITTINGS. AT CONTRACTOR'S OPTION PIPING ABOVE GROUND MAY BE "NO-HUB".
- B. CLEANOUTS IN SANITARY LINES, BOTH INSIDE AND OUTSIDE AT BUILDING, CAST-IRON BODY CAULKING FERRULES WITH BRASS THREAD FLANGED PLUGS AS MANUFACTURED BY ALABAMA PIPE CO., OR APPROVED EQUAL. CLEANOUT COVERS LOCATED IN FLOORS FOR SEWER LINES INSIDE OF BUILDING, J. R. SMITH 4030 WITH SATIN BRASS SCORIATED TOPS AND COVERS.
- C. CLEANOUTS SHALL BE INSTALLED IN EACH CHANGE OF DIRECTION OF SEWER LINES WHERE MORE THAN A 45 DEGREE ANGLE TURN IS MADE.
- D. CLEANOUTS ON UNDERGROUND LINES SHALL BE BROUGHT TO A CAST-IRON CLEANOUT BOX, WITH SERVICE MARKING, 1/2" THICK FLANGED TYPE AND LOOSE COVER. PROVIDE 12" X 4" THICK CONCRETE SLAB AROUND COVER AND FRAME.
- E. SIZE AND DISTANCE BETWEEN CLEANOUTS SHALL BE REQUIRED BY LOCAL AUTHORITIES AND/OR AS INDICATED ON DRAWINGS.

DOMESTIC WATER PRODUCTS

- A. PROVIDE AN INSULATING FITTING DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN CAST-IRON AND COPPER WATER MAINS.
- B. GATE VALVES SHALL BE PROVIDED WHERE INDICATED ON DRAWINGS AND SHALL BE DESIGNED FOR A MINIMUM WATER WORKING PRESSURE OF NOT LESS THAN ONE HUNDRED FIFTY (150) POUNDS PER SQUARE INCH. VALVES SHALL BE IRON-BODY, BRASS MOUNTED NON-RIISING STEM. EACH UNDERGROUND VALVE SHALL BE PROTECTED BY A CAST-IRON VALVE BOX WITH MINIMUM THICKNESS OF 3/16 INCH. THE COVER SHALL HAVE THE WORD "WATER" CAST IN THE METAL.
- C. HOT AND COLD WATER PIPING INSIDE THE BUILDING SHALL BE HARD DRAWN SEAMLESS COPPER TUBING, TYPE "L", WITH WROUGHT COPPER SWEAT FITTINGS AND LEAD FREE SOLDER ABOVE GRADE. NO JOINTS SHALL BE ALLOWED UNDER BUILDING SLAB, ON PIPING 1" AND SMALLER, LARGE PIPE SIZES SHALL HAVE JOINTS WITH LEAD FREE SOLDER.
- D. ALL PIPING, FITTINGS, SOLDER AND FLUX USED IN CONJUNCTION WITH THE POTABLE WATER SYSTEMS SHALL BE LEAD FREE. THE TERM "LEAD FREE" SHALL BE AS DEFINED IN THE SAFE DRINKING WATER ACT AMENDMENT OF 1996 (P.L. 99-339).

NATURAL GAS PRODUCTS

- A. ALL GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL AND SHALL BE FITTED WITH MALLEABLE IRON FITTINGS.
- B. ALL NEW GAS PIPING RUN ABOVE GROUND SHALL BE EXPOSED OR IN VENTILATED SPACES.
- C. PROVIDE A NEW GAS COCK TO SHUT OFF THE NEW BUILDING DISTRIBUTION PIPING.

PLUMBING FIXTURES

- A. FURNISH, INSTALL AND/OR CONNECT ALL PLUMBING FIXTURES INDICATED ON DRAWINGS OR AS HEREIN SPECIFIED. REFER TO THE DRAWINGS FOR LOCATION AND NUMBER OF FIXTURES REQUIRED. IF ANY FIXTURES SHOWN ON PLUMBING PLANS BUT NOT ON MECHANICAL PLANS, OR VICE VERSA, THESE FIXTURES SHALL BE FURNISHED, INSTALLED AND CONNECTED THE SAME AS IF INDICATED ON ALL DRAWINGS. WHERE A SPECIFIC MANUFACTURER'S NAME AND CATALOG NUMBER IS USED TO INDICATE THE TYPE AND QUALITY REQUIRED, IT SHALL BE ASSUMED THAT OTHER MANUFACTURER'S PRODUCTS MAY BE USED, WHERE THEY ARE EQUAL AND APPROVED BY THE ARCHITECT AS STIPULATED ELSEWHERE HEREIN.
- B. EACH PLUMBING FIXTURE SHALL BE FITTED WITH ALL NECESSARY AND PROPER FITTINGS, TRIM AND OPERATING DEVICES AND SHALL BE LEFT IN PERFECT OPERATING CONDITION. THE FINISH OF ALL TRAPS, WALL ESCUTCHEONS, AND EXPOSED METAL WORK IN CONNECTION WITH FIXTURES, TRIMMINGS AND OPERATING DEVICES SHALL BE CHROMIUM PLATED.
- C. BEFORE SETTING ANY FIXTURES OR ROUGH-IN FOR FIXTURES, OBTAIN THE EXACT MOUNTING HEIGHT, AS DESIRED, FROM ARCHITECT.
- D. EQUIPMENT SHOWN ON DRAWINGS TO BE FURNISHED UNDER OTHER SECTIONS SHALL BE ROUGHED-IN, INSTALLED AND CONNECTED UNDER THIS SECTION. FURNISH AND INSTALL ALL NECESSARY VALVES, PIPING, FITTINGS AND WASTE TRAPS, ETC., NOT PROVIDED WITH SAID EQUIPMENT BUT AS REQUIRED FOR PROPER OPERATION AND INSTALLATION. OBTAIN ROUGH-IN DIMENSIONS BEFORE INSTALLING ANY PIPING.
- E. PLUMBING FIXTURES SHALL BE AS FOLLOWS:

WATER CLOSET (MARK P1)
FLOOR MOUNTED; TWO-PIECE, 1.6 GPF; VITREOUS CHINA; ELONGATED BOWL; TOP SPUD; WHITE HEAVY-DUTY PLASTIC OPEN FRONT ELONGATED SEAT WITH COVER; POLISHED CHROME FINISH METAL TRIP LEVER
AND METAL SHANK FILL VALVE.
FIXTURE - AMERICAN STANDARD MODEL CADET PRO RIGHT HEIGHT 215AA.004
SEAT - BEMIS MODEL 7850TDG

III - PLUMBING (CONT'D.)

ELONGATED BOWL - AMERICAN STANDARD MODEL 3517A.101
TANK - AMERICAN STANDARD MODEL 4188A.004

WATER CLOSET (MARK P1A)
FLOOR MOUNTED; TWO-PIECE, 1.6 GPF; VITREOUS CHINA; ELONGATED RIM; TOP SPUD; MOUNT FOR HANDICAP USE, ADA COMPLIANT; WHITE HEAVY-DUTY PLASTIC OPEN FRONT SEAT WITH COVER; POLISHED CHROME FINISH METAL TRIP LEVER AND METAL SHANK FILL VALVE.
FIXTURE - AMERICAN STANDARD MODEL CADET PRO RIGHT HEIGHT 215AA.004
SEAT - BEMIS MODEL 7850TDG
ELONGATED BOWL - AMERICAN STANDARD MODEL 3517A.101
TANK - AMERICAN STANDARD MODEL 4188A.004

LAVATORY (MARK P2)
WALL HUNG; VITREOUS CHINA; MANUAL SINK FAUCET; OPEN GRID DRAIN WITH 1-1/2" TAILPIECE; 1-1/2" C.P. "P" TRAP WITH OFFSET WASTE TO WALL; 3/8" FLEXIBLE METAL C.P. RISERS WITH WHEEL HANDLE STOPS; PROVIDE ALL PIPING FROM SUPPLIES TO FIXTURE. INSULATE WASTE AND WATER PIPING UNDER FIXTURE WITH CLOSED CELL INSULATION, AS MANUFACTURED BY TRUEBRO OR APPROVED EQUAL.
FIXTURE - AMERICAN STANDARD MODEL LUCERNE 0355.012
FAUCET - AMERICAN STANDARD MODEL 7385.004 RELIANT 3 SINGLE CONTROL CENTERSET
MIXING VALVE - WATTS MODEL LFUSG-B-M2 UNDER SINK GUARDIAN
GRID DRAIN AND TAILPIECE MCGUIRE MODEL 155A2
P-TRAP W/ CO MCGUIRE MODEL 8912C
WATER SUPPLIES BRASS CRAFT MODEL (2) OCR1912AX C

LAVATORY (MARK P2A)
WALL HUNG; VITREOUS CHINA; MOUNT FOR HANDICAP USE, ADA COMPLIANT; MANUAL SINK FAUCET; OPEN GRID DRAIN WITH 1-1/2" TAILPIECE; 1-1/2" C.P. "P" TRAP WITH OFFSET WASTE TO WALL; 3/8" FLEXIBLE METAL C.P. RISERS WITH WHEEL HANDLE STOPS; PROVIDE ALL PIPING FROM SUPPLIES TO FIXTURE; INSULATE WASTE AND WATER PIPING UNDER FIXTURE WITH CLOSED CELL INSULATION, AS MANUFACTURED BY TRUEBRO OR APPROVED EQUAL.
FIXTURE - AMERICAN STANDARD MODEL LUCERNE 0355.012
FAUCET - AMERICAN STANDARD MODEL 7385.004 RELIANT 3 SINGLE CONTROL CENTERSET
MIXING VALVE - WATTS MODEL LFUSG-B-M2 UNDER SINK GUARDIAN
GRID DRAIN AND OFFSET STRAINER MCGUIRE MODEL 1151AWC
P-TRAP W/ CO MCGUIRE MODEL 8912C
WATER SUPPLIES BRASS CRAFT MODEL (2) OCR1912AX C
UNDER FIXTURE INSULATION TRUEBRO MODEL 103-E Z

URINAL (MARK P3)
WALL HUNG; CHINA; TOP SPUD; MOUNT FOR HANDICAP USE, ADA COMPLIANT; LOW CONSUMPTION (1.0 GPF); WALL HANGER; MANUAL FLUSH VALVE WITH VACUUM BREAKER AND SCREWDRIVER STOP.
FIXTURE - AMERICAN STANDARD MODEL WASHBROOK FLOWISE W6590.001
FLUSH VALVE - AMERICAN STANDARD MODEL 6045.101.002 OR SOLAN MODEL ROYAL 186 1.0

SINK (MARK P4)
SINGLE COMPARTMENT UTILITY SINK; FLOOR MOUNT; 34" X 23" X 23-1/2"; HIGH STRENGTH, ONE PIECE WHITE MOLDED DURASTONE CONSTRUCTION WITH BUILT-IN SCRUB BOARD; 19 GALLON TUB; 6" SWING SPOUT FAUCET WITH 4" CENTER SET LEVEL HANDLES; STOPPER STRAINER WITH 1-1/2" TAILPIECE; 1-1/2" C.P. "P" TRAP; PROVIDE ALL PIPING FROM SUPPLIES TO FIXTURE; INSULATE ALL PIPING AND VALVES UNDER FIXTURE.
FIXTURE - MUSTEE MODEL 17F UTILATUB
FAUCET - MUSTEE MODEL 93.600
DRAIN -ELKAY MODEL LKJ35
TRAP AND WASTE - MCGUIRE MANUFACTURING MODEL 8912C
WATER SUPPLIES BRASS CRAFT MODEL (2) OCR1912AX C

SERVICE SINK (MARK P5)
FLOOR MOP SINK; ONE-PIECE MOLDED FROM HIGH IMPACT RESISTANT DURASTONE STRUCTURAL WHITE FIBERGLASS; 10" HIGH SIDES AND 6" DROP FRONT; 24" X 24" X 10"; S.S. THRESHOLD; FAUCET WITH INTEGRAL STOPS; WALL BRACE AND VACUUM BREAKER; HOSE AND HOSE BRACKET; VINYL BUMPER GUARDS; STAINLESS STEEL STRAINER AND 3" DEEP SEAL "P" TRAP.
FIXTURE - MUSTEE MODEL 63M
FAUCET - MUSTEE MODEL 63.600A OR CHICAGO FAUCETS MODEL 897-RCF
MOP HANGER - MUSTEE MODEL 65.600
HOSE AND HOSE HOLDER - MUSTEE MODEL 65.700
BUMPER GUARDS - MUSTEE MODEL 63.401 20-3/4" LONG

SHOWER (MARK P7)
FIELD BUILT SHOWER ENCLOSURE AS DETAILED ON ARCHITECTURAL DRAWINGS. PROVIDE AND INSTALL THERMOSTATIC MIXING VALVE; INLINE DIVERTER VALVE WITH LEVER HANDLE; BRASS BALL JOINT 1.75 GPM SHOWER HEAD WITH BALL JOINT ARM, WALL GRAB BAR
SHOWER TRIM AND SHOWER HEAD - DELTA MODEL T13220
MIXING VALVE - DELTA MODEL R10000-UNWS
GRAB BAR - DELTA MODEL 52001-DS

SHOWER (MARK P7A)
FIELD BUILT SHOWER ENCLOSURE AS DETAILED ON ARCHITECTURAL DRAWINGS. PROVIDE AND INSTALL THERMOSTATIC MIXING VALVE; INLINE DIVERTER VALVE WITH LEVER HANDLE; BRASS BALL JOINT 1.75 GPM SHOWER HEAD WITH BALL JOINT ARM; 2.5 GPM HANDHELD SHOWER WITH 24" GUIDE RAIL; 2" FD; INSTALL ALL FOR HANDICAP USE TO MEET ADA REQUIREMENTS
SHOWER TRIM AND SHOWER HEAD - DELTA MODEL T13220
MIXING VALVE - DELTA MODEL R10000-UNWS
DIVERTER VALVE - DELTA MODEL T11800
DIVERTER MIXING VALVE - DELTA MODEL R11000
GUIDE RAIL AND HANDHELD SHOWER - DELTA MODEL 52001-DS
ELBOW DELTA MODEL 50560

WASHING MACHINE BOX (MARK WM)
RECESSED PRE-ASSEMBLED FIRE RATED WALL BOX WITH ½" THREADED BALL SHUT OFF VALVES FOR HOT WATER AND COLD WATER, 2" WASTE TAILPIECE, ADJUSTABLE GALVANIZED MOUNTING BRACKETS.
FIXTURE: OATEY MODEL 38470

FLOOR DRAIN (MARK FD)
J. R. SMITH 2005-SS, MIFAB F1100C-S-3, OR APPROVED EQUAL. CAST-IRON BODY, STAINLESS STEEL, SQUARE TOPS AND STRAINERS. IN TOILET ROOMS AND FINISHED AREAS. ALL FLOOR DRAINS SHALL HAVE 4" DEEP SEAL TRAPS AND TRAP PRIMER CONNECTIONS. SEE PLANS FOR SIZES.

FLOOR DRAIN (MARK FD-1)
J. R. SMITH NO 2010-F37, MIFAB F1100C-ER, OR APPROVED EQUAL. CAST IRON BODY AND FLASHING COLLAR WITH EXTENDED RIM, NIKALOY STRAINER, INSTALL WITH RIM FLUSH WITH FLOOR. ALL FLOOR DRAINS SHALL HAVE 4" DEEP SEAL TRAPS AND TRAP PRIMER CONNECTIONS.

HOSE BIBB (MARK HB-1)
WALL HYDRANT; NON-FREEZE; 20 GA. SS BOX; SS BOX FACE; SELF DRAINING HYDRANT WITH INTEGRAL VACUUM BREAKER; T-HANDLE KEY; FOR EXTERIOR HOSE BIBS, WHERE INDICATED ON THE DRAWINGS.
J. R. SMITH MODEL 5509QT-SS, WOODFORD MODEL B67, MIFAB MODEL MHY-20-3 OR APPROVED EQUAL.

TRAP PRIMER (MARK TP)
AUTOMATIC WATER METERING TYPE, TO SERVE DRAINS AS SHOWN ON DRAWINGS. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PROVIDE WALL ACCESS PANEL FOR PERIODIC INSPECTION. MANUFACTURER MIFAB MODEL MR-500-MI-UD, MI-GAP. SEPARATE CUTOFF VALVES SHALL NOT BE INSTALLED BETWEEN A TRAP PRIMER AND ITS WATER SUPPLY EXCEPT THAT A CUTOFF VALVE FOR AN INDIVIDUAL FIXTURE MAY CONTROL BOTH THE WATER SUPPLY TO THE TRAP PRIMER AND THE INDIVIDUAL FIXTURE TO ASSURE A CONSTANT SUPPLY TO THE PRIMER.

TRAP SEAL PROTECTION DEVICE (MARK TS)
BARRIER TYPE TRAP SEAL PROTECTION DEVICE SHALL BE AN INLINE FLOOR DRAIN TRAP SEALER, CONSTRUCTED OF ASB PLASTIC, WITH A NEOPRENE RUBBER DIAPHRAGM & SEALING GASKET IN ACCORDANCE WITH STANDARD ASSE 1072-2007. SEALS SHALL BE OF THE SAME SIZE AS THE DRAIN INTO WHICH THEY ARE INSTALLED, AND SHALL BE MANUFACTURED BY SURESEAL, OR APPROVED EQUAL. INSTALL SEALS, WHERE SHOWN ON THE DRAWINGS. SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER.

VALVES, STRAINERS, UNIONS AND FITTINGS

- A. FURNISH AND INSTALL ALL VALVES REQUIRED UNDER THESE SPECIFICATIONS. ALL VALVES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE FOR CLEANING, INSPECTION AND MAINTENANCE. VALVES SHALL BE AS HERE IN AFTER SPECIFIED.
- B. VALVE ALL FIXTURE GROUPS AND IN ADDITION EACH INDIVIDUAL BRANCH LINE TO EVERY PIECE OF EQUIPMENT AND TO EVERY PLUMBING FIXTURE SHALL BE SEPARATELY VALVED, ON ALL SERVICES, INCLUDING COLD WATER, GAS, ETC. STOPS BELOW FIXTURES SHALL MEET INDIVIDUAL VALVE REQUIREMENTS.

- C. ALL VALVES SHALL BE LOCATED IN THE MOST ACCESSIBLE LOCATIONS.

WATER HAMMER ARRESTORS

- A. PROVIDE ARRESTORS AS MARKED A.C. (AIR CHAMBERS) WHERE SHOWN ON THE DRAWINGS AND/OR AS NECESSARY TO PREVENT WATER HAMMER IN THE PIPING BASED ON ACTUAL PIPING ARRANGEMENT ON THE JOB.
- B. INSTALL FLUID WATER HAMMER ARRESTORS IN COMPLIANCE WITH ASSE STANDARD 1010.
- C. EACH UNIT SHALL BE CONSTRUCTED WITH A SINGLE MOVING PART. THE BARREL SHALL BE FABRICATED OF TYPE "K" HARD DRAWN COPPER WITH THE CAP FABRICATED FROM STANDARD WROUGHT COPPER FITTINGS ATTACHED TO THE BARREL WITH LEAD FREE SOLDER. THE PISTON SHALL BE MACHINED FROM BRASS AND EQUIPPED WITH RUBBER "O" RINGS.

GENERAL PLUMBING INSTALLATIONS

- A. ALL PIPING, WASTE AND STACKS SHALL BE RUN CONCEALED UNDERGROUND, IN CEILING SPACES, WALLS OR IN CHASES PROVIDED. THE ENTIRE INSTALLATION MUST PRESENT AN APPEARANCE TRULY IN KEEPING WITH THE BEST PRACTICE AND INDICATIVE OF SKILL AND NEATNESS.
- B. ALL MATERIAL SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY COMPETENT SPECIALISTS FOR EACH SUB-TRADE. THE INSTALLATION OF ANY MATERIALS AND EQUIPMENT NOT MEETING THESE STANDARDS MAY BE CONDEMNED BY THE ENGINEER AND SHALL BE REMOVED AND RE-INSTALLED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF THE MATERIALS INSTALLED UNTIL FINAL ACCEPTANCE BY THE OWNER.
- C. PIPE SHALL BE LAID TO THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS. EACH PIPE SHALL BE LAID LINE TO LINE AND GRADE AND IN SUCH MANNER AS TO FORM A CLOSE CONCENTRIC JOINT WITH THE ADJOINING PIPE AND TO PREVENT SUDDEN OFFSETS OF THE FLOW LINE. THE INTERIOR OF THE PIPE SHALL BE CLEANED OF ALL DIRT AND SUPERFLUOUS MATERIALS OF EVERY DESCRIPTION. AT TIMES WHEN THE WORK IS NOT IN PROGRESS, OPEN ENDS OF PIPE AND FITTINGS SHALL BE SECURELY CLOSED, SO THAT NO SUBSTANCE WILL ENTER THE PIPE OR FITTINGS.

SANITARY SEWER PIPING INSTALLATION

- A. NEW PIPING SHALL BE A COMPLETE SYSTEM TO WASTE AND VENT LINES FROM ALL FIXTURES. ALL WASTE LINES SHALL BE INSTALLED ON A CONTINUOUS WASTE AND VENT SYSTEM AS REQUIRED BY CODES AND/OR REGULATIONS. ALL PIPING SHALL BE INSTALLED STRAIGHT AND TRUE AND SIZED AS INDICATED ON DRAWINGS.
- B. ALL CHANGES IN DIRECTION SHALL BE MADE BY THE USE OF 45 DEGREE WYES, DOUBLE WYES, LONG SWEEP QUARTER BEND OR 1/8 BENDS, EXCEPT THAT SINGLE SANITARY TEES MAY BE USED ON VERTICAL STACKS. TEES AND CROSSES MAY BE USED IN VENT PIPES.

III - PLUMBING (CONT'D.)

- C. CLEANOUTS EASILY ACCESSIBLE SHALL PROVIDE AT THE FOOT OF EACH VERTICAL WASTE OR SOIL STACK. CLEANOUTS SHALL BE OF NOMINAL SIZE AS THE PIPES UP TO FOUR (4") INCHES AND NOT LESS THAN FOUR (4") INCHES FOR LARGER PIPES. THE DISTANCE BETWEEN CLEANOUTS IN HORIZONTAL LINES SHALL NOT EXCEED THOSE DISTANCES REQUIRED BY LOCAL AUTHORITIES, WHETHER INDICATED OR NOT.
- D. ALL CLEANOUTS INSTALLED SO AS TO BE EASILY ACCESSIBLE, AND OUTSIDE CLEANOUTS INSTALLED FLUSH WITH FINISHED GRADE.
- E. HORIZONTAL SOIL OR WASTE LINES SHALL BE RUN AT UNIFORM GRADE OF NOT LESS THAN 1/8" PER FOOT EXCEPT LESS THAN FOUR (4") INCH IN DIAMETER WHICH SHALL BE RUN AT A UNIFORM GRADE OF NOT LESS THAN 1/4" PER FOOT. HORIZONTAL LINES SHALL BE SUPPORTED OR ANCHORED AT INTERVALS SPECIFIED IN GENERAL MECHANICAL. ALL STACKS SHALL BE SUPPORTED AT THEIR BASE AND EVERY FLOOR TO THE ROOF LINE AND PIPES SHALL BE RIGIDLY SECURED.
- F. EVERY FIXTURE TRAP SHALL BE PROTECTED AGAINST SIPHONAGE AND BACK PRESSURE AND AIR CIRCULATION ASSURED BY MEANS OF A SOIL OR WASTE STACK VENT, A CONTINUOUS WASTE OR SOIL VENT, A LOOP OR CIRCUIT VENT.
- G. NO VENTS SHALL BE LESS THAN 1-1/2" IN DIAMETER AND NO CASE SHALL BRANCH OR MAIN VENT HAVE A DIAMETER LESS THAN HALF THAT OF THE SOIL OR WASTE PIPE SERVED, OR AS REQUIRED BY LOCAL CODE.

HOT WATER AND COLD WATER SYSTEMS INSTALLATION

- A. THIS INSTALLATION COMPRISES A COMPLETE AND OPERATING SYSTEM OF HOT AND COLD WATER DISTRIBUTION AND CONNECTION TO EACH AND EVERY FIXTURE AND APPLIANCE REQUIRING THIS SERVICE AND/OR AS INDICATED ON DRAWINGS.
- B. ALL ENDS OF TUBING SHALL BE SQUARE CUT AND BURRS REMOVED BEFORE ASSEMBLING. JOINTS SHALL BE THOROUGHLY CLEANED WITH SANDPAPER OR EMERY CLOTH BEFORE APPLYING THE FLUX.
- C. ALL WATER SUPPLY PIPING, FITTINGS, AND FIXTURES SHALL BE PROTECTED AGAINST WATER HAMMER SHOCK, OR SURGE PRESSURE, BY ADEQUATE AIR CHAMBERS.
- D. EACH RISER BATTERY SHALL BE VALVED IN AN ACCESSIBLE LOCATION.
- E. NO HOT WATER PIPING SHALL BE RUN CLOSER THAN SIX (6") INCHES FROM COLD WATER PIPES.
- F. DISTRIBUTION AND SIZES SHALL BE AS INDICATED ON DRAWINGS.
- G. PITCH ALL PIPING TO LOW POINTS TO ALLOW FOR SYSTEM DRAINAGE.

MISCELLANEOUS ITEMS OF INSTALLATION

- A. CONTRACTOR SHALL PROVIDE TEMPORARY WATER AND SEWERAGE ON SITE FOR USE DURING CONSTRUCTION PERIOD AS REQUIRED.
- B. ALL VALVES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE FOR CLEANING, INSPECTION, MAINTENANCE, AND OPERATION. PROVIDE ACCESS PANELS AT ALL CONCEALED VALVES.
- C. ALL WELDED PIPING TO BE WELDED BY CERTIFIED WELDERS SKILLED IN THE WORK TO BE DONE.
- D. NO PIPING OF DISSIMILAR METALS PLACED IN CONTACT OR IN CLOSE PROXIMITY WITH EACH OTHER. PROVIDE INSULATING UNIONS WHEREVER PIPING OF DISSIMILAR METALS IS JOINTED.
- E. PROVIDE ALL NECESSARY STEEL FRAMES SUPPORTS, ANCHOR BOLTS, SLEEVES, ETC., REQUIRED FOR SAFE SUPPORT OF EQUIPMENT AND PIPING INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE ACCURATE POSITION AND DIMENSIONS OF ALL FOUNDATIONS AND SUPPORT ITEMS.



JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

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N-Y Proj No: 21008.01
Date: SEPTEMBER 9, 2022
Revised:
MECHANICAL -
SPECIFICATIONS

DRAWN BY: LAR
CHECKED BY: DEV
DESIGNED BY: NOT

M-0.1

IV - WET PIPE SPRINKLER SYSTEM

SCOPE

- A. WORK UNDER THIS SECTION SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, SERVICES AND FACILITIES NECESSARY TO COMPLETE THE RENOVATION OF THE INTERIOR FIRE PROTECTION SYSTEM FOR THE BUILDING AS SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN WITHOUT EXCEPTION.
- B. APPLICABLE PROVISIONS OF GENERAL AND SPECIAL CONDITIONS AND, MECHANICAL GENERAL, SECTIONS SHALL APPLY TO THIS SECTION AS IF WRITTEN IN FULL HEREIN.
- C. THE WORK SHALL INCLUDE BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING:
 - 1. CONTRACTOR SHALL RENOVATE THE EXISTING SPRINKLER SYSTEM, REMOVE, RELOCATE, AND/OR REPLACE THE BRANCHES AND SPRINKLERS IN THE AREA TO BE RENOVATED AND SHALL PROVIDE A NEW WET PIPE SPRINKLER SYSTEM FOR THE RENOVATED AREAS AND THE NEW AREAS. ALL HEADS IN THE RENOVATED AREA SHALL BE NEW. DO NOT REUSE ANY EXISTING HEADS.
 - 2. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF NFPA FIRE CODES.
- D. PAINTING, UNLESS OTHERWISE SPECIFIED IS NOT INCLUDED UNDER THIS SECTION.
- E. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM CONTRACTOR, SO THAT THE NEW INSTALLATIONS SHALL BE COMPATIBLE WITH THE MANUFACTURERS OF THE EXISTING FIRE ALARM SYSTEM.

CODES AND STANDARDS

- A. FINAL SYSTEMS DESIGN, MATERIALS, WORKMANSHIP AND TESTING SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS, WHEN SAME HAVE JURISDICTION.
 - 1. N.F.P.A. 13, 14, 24, 101, AND ALL APPLICABLE CODES.
 - 2. PROPERTY INSURANCE ASSOCIATION OF LOUISIANA.
 - 3. STATE OF LOUISIANA FIRE MARSHAL.
 - 4. JEFFERSON PARISH FIRE PREVENTION BUREAU.

QUALIFICATIONS OF FIRE PROTECTION CONTRACTOR

CONTRACTOR MUST BE LICENSED IN THE STATE OF LOUISIANA TO PERFORM SPRINKLER WORK, AND MUST BE REGULARLY ENGAGED IN MAKING SUCH INSTALLATION.
SHOP DRAWINGS AND DATA SHEETS

- A. CONTRACTOR TO PROVIDE ENGINEER WITH A DIGITAL PDF COPY OF SHOP DRAWINGS AND CALCULATIONS INCLUDING FLOW AND HYDRANT TESTS FOR OWNER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK. WORK IS NOT TO BE STARTED UNTIL: 1) SHOP DRAWINGS HAVE BEEN CORRECTED TO CONFORM TO OWNER'S APPROVAL, 2) COPIES OF CORRECTED DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND STATE FIRE MARSHALL, AND 3) DRAWINGS HAVE BEEN RETURNED FROM THE STATE FIRE MARSHALL WITH REVIEW COMMENTS. CONTRACTOR SHALL SUBMIT OWNER'S STAMPED APPROVED DRAWINGS TO THE STATE FIRE MARSHALL FOR HIS REVIEW. THIS CONTRACTOR SHALL PAY FOR ALL REVIEW FEES REQUIRED BY THE STATE FIRE MARSHALL.
- B. CONTRACTOR SHALL ALSO SUBMIT A COMPLETE SET OF SHOP DRAWINGS, CALCULATIONS AND EQUIPMENT DATA SHEETS TO THE JEFFERSON PARISH FIRE PREVENTION DEPARTMENT FOR APPROVAL. CONTRACTOR SHALL PAY ALL REVIEW FEES AND COSTS.

AS BUILT DRAWINGS

- A. CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS SHOWING EXACT LOCATIONS AND SIZES OF ALL PIPING, VALVES AND RELATED ITEMS, WHICH SHALL BE CORRECTED DAILY AND SHOWN EVERY CHANGE FROM ORIGINAL CONTRACT DRAWINGS AND SPECIFICATIONS.
- B. ON COMPLETION OF THE WORK, CONTRACTOR SHALL PROVIDE ONE COMPLETE SET OF PRINTS CORRECTED TO SHOW ALL CHANGES NOTED ON "AS-BUILT" DRAWINGS, TOGETHER WITH A PDF COPY ON CD, TO THE ENGINEER FOR DELIVERY TO THE OWNER.

CUTTING AND PATCHING

- A. CONTRACTOR TO PROVIDE ALL OPENINGS FOR PROPER INSTALLATION OF THE WORK SPECIFIED, IN FOUNDATIONS, WALLS, FLOORS, CEILINGS, PARTITIONS, STAIRWAYS, ETC., AND DO ALL PATCHING AND REPAIRING REQUIRED, EXCEPT WHERE OTHERWISE NOTED ON DRAWINGS.
- B. CUTTING STRUCTURAL MEMBERS FOR THE PASSAGEWAY OF SPRINKLER PIPING OR FOR PIPE HANGER FASTENINGS WILL NOT BE PERMITTED.
- C. HOLES THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE LARGE ENOUGH TO ACCOMMODATE PIPE EXPANSION. SUITABLE PLATES SHALL BE PROVIDED AT EACH HOLE TO INSURE THE EFFECTIVENESS OF THE FLOOR OR WALL AS A FIRE STOP.

INTERFERENCE

THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES SO THAT INTERFERENCE BETWEEN PIPING, CONDUIT, EQUIPMENT, APPARATUS, ARCHITECTURAL AND STRUCTURAL WORK WILL BE AVOIDED. IN CASE OF INTERFERENCE DEVELOPING, THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE SHALL DECIDE WHICH EQUIPMENT, PIPING, ETC., MUST BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.

PERMITS, FEES AND INSPECTION

- A. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND SHALL PAY ALL FEES REQUIRED IN CONNECTION WITH THIS WORK, NOT COVERED BY PERMITS OBTAINED BY GENERAL CONTRACTOR.
- B. CONTRACTOR SHALL INCLUDE ALL TAXES REQUIRED.
- C. UPON COMPLETION OF ALL WORK, THIS CONTRACTOR SHALL FURNISH THE OWNER A CERTIFICATE OF APPROVAL FROM SUCH AUTHORITIES AS MAY HAVE JURISDICTION.

CLEANING UP

THIS CONTRACTOR SHALL AT ALL TIMES DURING CONSTRUCTION KEEP THE PREMISES FREE FROM WASTE MATERIALS, OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK AND AT COMPLETION SHALL REMOVE ALL SURPLUS MATERIALS LEAVING THE BUILDING IN A CLEAN SWEEP CONDITION.

FIRE WATER MAIN CONNECTION

CONNECTIONS TO THE EXISTING BUILDING FIRE WATER MAIN FOR THE WATER SUPPLY TO THE RENOVATIONS TO THE EXISTING FIRE PROTECTION SYSTEMS SHALL BE PROVIDED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL COSTS FOR THIS CONNECTION. CONTRACTOR SHALL TEST AND FLUSH PIPING IN ACCORDANCE WITH NFPA-24, INCLUDING CERTIFICATION DOCUMENTS.

MAIN DRAIN

MAIN DRAIN VALVE AND PIPING TO PROPERLY DRAIN EACH SYSTEM SHALL BE LOCATED AT EACH MAIN RISER AND PIPED TO OPEN AIR OUTSIDE THE BUILDING. PROVIDE AUXILIARY DRAINS, PIPED TO OPEN AIR OUTSIDE THE BUILDING, AS REQUIRED AT TRAPS IN PIPING REQUIRED TO AVOID CONFLICTS WITH OTHER TRADES.

PIPE AND FITTINGS

- A. ALL INTERIOR WET SPRINKLER PIPE SHALL BE ASTM A135 SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON SCREW FITTINGS OR CUT GROVE FITTINGS SIMILAR TO VICTAULIC, GRINELL, OR EQUAL, AS REQUIRED. AT CONTRACTOR OPTIONS SCHEDULE 10 BLACK STEEL PIPING MAY BE USED FOR GROOVED END PIPING 2 1/2" AND LARGER. FITTINGS SHALL BE ASME B16.3 CLASS 125 STANDARD PATTERN WITH THREADS ACCORDING TO ASME B1.20.1. PROVIDE ALL REQUIRED PIPE SUPPORTS UNDER BUILDING AND ABOVE GROUND IN ACCORDANCE WITH NATIONAL FIRE CODES. PIPE SHALL BE U.L. LISTED AND INSTALLED IN ACCORDANCE WITH NFPA 13.
- B. ALL PIPING AND FITTINGS SHALL BE RATED FOR THE HYDRAULIC PRESSURE ENCOUNTERED THROUGHOUT THE SYSTEM.

SPRINKLERS

- A. SPRINKLER HEADS IN UNFINISHED CEILING AREAS TO BE BRASS UPRIGHT OR PENDANT TYPE AS REQUIRED.

IV - WET PIPE SPRINKLER SYSTEM (CONT'D.)

- B. SPRINKLER HEADS IN FINISHED AREAS SHALL HAVE CONCEALED FLUSH TYPE HEADS. FACE PLATE SHALL BE CHROME OR WHITE TO MATCH FINISH OF CEILING.
- C. ALL HEADS IN ACOUSTICAL TILE AREAS SHALL BE CENTERED IN THE TILE, BOTHWAYS.
- D. CONTRACTOR SHALL INCLUDE, IN HIS BID, ANY AND ALL HEADS REQUIRED TO MEET ALL APPLICABLE SECTIONS OF NFPA 13, WHETHER INDICATED ON THE DRAWINGS OR NOT. IT IS THE INTENT OF THIS SECTION THAT THE CONTRACTOR PROVIDES A COMPLETE AND OPERATIONAL SYSTEM THAT SHALL MEET ALL CODES AND THAT ALL COSTS SHALL BE INCLUDED IN THE BID PRICE.
- E. ALL SPRINKLER HEADS SHALL BE OF THE QUICK RESPONSE TYPE.

SPRINKLER SYSTEMS

- A. WET PIPE SPRINKLER SYSTEMS SHALL BE PROVIDED TO ALL REMODELED AND NEW AREAS OF THE BUILDING. THESE SYSTEMS SHALL BE DESIGNED FOR A LIGHT HAZARD OCCUPANCY, EXCEPT AS DEFINED BELOW.
- B. ALL FOOD PREP, EQUIPMENT ROOMS, MECHANICAL ROOMS, STORAGE ROOMS AND ELECTRICAL ROOMS SHALL BE PROVIDED WITH A SPRINKLER SYSTEM DESIGNED FOR ORDINARY HAZARD GROUP 1 OCCUPANCY.
- C. CONTRACTOR SHALL PROVIDE TAMPER SWITCHES ON ALL NEW VALVES THAT CAN SHUT OFF THE FLOW OF WATER TO THE SYSTEM AS REQUIRED BY NFPA 13. TAMPER SWITCHES SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM.
- D. CONTRACTOR SHALL PROVIDE FLOW SWITCHES AT ALL NEW CONNECTIONS TO THE SPRINKLER SYSTEM, AT ALL NEW FLOW MONITORING LOCATIONS, AND AT ALL OTHER LOCATIONS REQUIRED BY NFPA 13. FLOW SWITCHES SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM.

VALVES

- A. ALL VALVES USED IN THE FIRE PROTECTION SYSTEM SHALL BE UL LISTED AND FM APPROVED WITH 175 PSIG NON SHOCK MINIMUM WORKING PRESSURE RATING.
- B. GATE VALVES, 2 INCHES AND SMALLER SHALL BE UL 262 CAST BRONZE, THREADED ENDS, SOLID WEDGE, OUTSIDE SCREW AND YOKE, RISING STEM.
- C. GATE VALVES 2-1/2" AND LARGER SHALL BE UL 262, IRON BODY BRONZE MOUNTED, TAPER WEDGE, OUTSIDE SCREW AND YOKE, RISING STEM.
- D. SWING CHECK VALVES, 2-1/2" AND LARGER SHALL BE UL 312, CAST-IRON BODY AND BOLTED CAP WITH BRONZE OR CAST IRON DISC WITH BRONZE DISC RING.
- E. PROVIDE CONTACTOR (TAMPER SWITCH) ON ANY NEW VALVE TO CONNECT TO FIRE ALARM SYSTEM TO INDICATE WHEN VALVE IS CLOSED. TAMPER SWITCH SHALL BE 24V, AND SHALL BE COMPATIBLE WITH FIRE ALARM SYSTEM. WIRING AND CONNECTION TO FIRE ALARM SYSTEM SHALL BE BY FIRE ALARM CONTRACTOR.

SYSTEM INSTALLATION

- A. PRIOR TO INSTALLATION OF ANY WORK, THIS CONTRACTOR IS TO PREPARE INSTALLATION AND FABRICATION DRAWINGS AND HAVE SAME APPROVED BY THE INSURANCE AUTHORITY HAVING JURISDICTION AND OWNER'S REPRESENTATIVE.
- B. PROVIDE ALL OPENINGS FOR PROPER INSTALLATION OF WORK SPECIFIED, IN WALK, CEILINGS, AND FLOORS AND DO ALL PATCHING OF SAME AS REQUIRED.
- C. THIS CONTRACTOR IS TO FURNISH CERTIFICATES OF INSURANCE PRIOR TO COMMENCING WORK.
- D. THIS CONTRACTOR IS TO PAY FOR ALL PERMITS REQUIRED FOR THIS PORTION OF THE WORK.
- E. THIS CONTRACTOR IS TO HYDROSTATICALLY TEST THE ENTIRE INTERIOR SYSTEM TO 200 PSI FOR A PERIOD OF TWO (2) HOURS IN ACCORDANCE WITH NFPA 13, AND SHOW EVIDENCE THAT HE HAS HAD AN AUTHORIZED REPRESENTATIVE OF THE OWNER PRESENT FOR THE TEST.

WARRANTY

THIS CONTRACTOR IS TO WARRANT ALL MATERIAL AND WORKMANSHIP, FREE FROM DEFECTS, FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF INSTALLATION.

V - HVAC SYSTEMS

RELATED DOCUMENTS

- A. THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS APPLY TO THE WORK SPECIFIED IN THIS SECTION.
- B. REFER TO MECHANICAL GENERAL SECTION WHICH SHALL APPLY TO WORK IN THIS SECTION.

DESCRIPTION OF WORK

- A. THE WORK TO BE DONE UNDER THIS SECTION INCLUDES THE FURNISHING OF ALL LABOR, TOOLS, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND REASONABLE INCIDENTAL TO THE INSTALLATION OF COMPLETE AIR CONDITIONING AND HEATING AND VENTILATION SYSTEM COMPONENTS AS SHOWN ON PLANS AND HEREIN SPECIFIED, EXCEPTING ONLY WORK AND/OR MATERIALS INDICATED AS BEING DONE AND/OR FURNISHED UNDER OTHER SECTIONS.
- B. CONTRACTOR SHALL REFER TO OTHER SECTIONS OF THE SPECIFICATIONS WHICH MAY BE APPLICABLE TO OR ASSOCIATED WITH THIS SECTION.

RELATED WORK SPECIFIED IN OTHER SECTION

- A. ELECTRICAL SECTION WILL PROVIDE ALL POWER WIRING INCLUDING FURNISHING AND INSTALLING OF DISCONNECT SWITCHES WHERE SPECIFIED. CONTROL WIRING FOR RENOVATED AND/OR RELOCATED AIR CONDITIONING EQUIPMENT AND DEVICES SHALL BE PROVIDED UNDER THIS SECTION.
- B. OTHER SECTIONS WILL PROVIDE AND INSTALL STRUCTURAL SUPPORTS FOR EQUIPMENT. THESE SUPPORTS SHALL BE CHECKED AND COORDINATED BY THIS SECTION SO THAT THEY SUIT THE EQUIPMENT WHICH IS TO BE SUPPORTED.
- C. OTHER SECTIONS SHALL PROVIDE ALL PLATFORMS SLABS, LINTELS AND CURBS, AS DIRECTED BY THIS SECTION, TO ACCOMMODATE THE MECHANICAL EQUIPMENT.
- D. MECHANICAL CONTRACTOR SHALL PROVIDE ANY REQUIRED STARTERS FOR MOTORS FURNISHED UNDER THIS SECTION.

QUALITY ASSURANCE

THESE SPECIFICATIONS WITH ACCOMPANYING DRAWINGS, REQUIRE COMPLETE APPARATUS, FULLY ERECTED AND IN SUCCESSFUL OPERATING CONDITION. PERFORM ALL WORK IN BEST, MOST SUBSTANTIAL MANNER.

SUBMITTALS

CONTRACTOR, BEFORE BEGINNING WORK, SHALL SUBMIT DIMENSIONAL SHOP DRAWINGS (IN ACCORDANCE WITH REQUIREMENTS OF THE MECHANICAL SECTIONS, FOR APPROVAL, FOR ALL DUCT SYSTEMS, AND EQUIPMENT LAYOUT. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL PLUMBING, PIPING SPRINKLER, DUCTWORK AND ELECTRICAL TO AVOID ALL CONFLICTS.

HVAC DUCTWORK

- A. PROVIDE AND INSTALL A COMPLETE SYSTEM OF DUCTWORK AS HEREIN SPECIFIED TO INCLUDE, BUT NOT LIMITED TO SUPPLY, RETURN, EXHAUST AND FRESH AIR WITH GRILLES, REGISTERS, DIFFUSERS AND APPURTENANCE TO PROVIDE A COMPLETE FUNCTIONAL AND OPERATIONAL SYSTEM. DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS. DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF SMACNA MANUALS AND AS PER THE FOLLOWING:
 - 1. GALVANIZED SHEET METAL SHALL BE LOCK FORM QUALITY PER ASTM A653 WITH A G90 ZINC COATING. ALL EXPOSED DUCTWORK IN FINISHED AREAS SHALL BE CONSTRUCTED OF PAINT GRIP GALVANIZED SHEET METAL.
 - 2. OUTSIDE AIR AND EXHAUST AIR DUCTS SHALL BE GALVANIZED SHEETMETAL WITH AIR-TIGHT SEAMS AND AS PER APPLICABLE SECTIONS OF SMACNA MANUALS FOR LOW VELOCITY DUCTS. INSULATE OUTSIDE AIR AND EXHAUST AIR DUCTS WITH 2" EXTERIOR DUCT WRAP.

V - HVAC SYSTEMS (CONT'D.)

- 3. SUPPLY AND RETURN DUCTS FOR LOW PRESSURE SYSTEM AND, LOW VELOCITY SYSTEMS SHALL BE GALVANIZED SHEETMETAL WITH AIRTIGHT SEAMS AND AS PER APPLICABLE SECTION OF SMACNA MANUALS FOR LOW VELOCITY DUCTS. ALL DUCTS SHALL BE INSULATED WITH 2" EXTERIOR WRAP.
- 4. ALL CONCEALED ROUND RIGID DUCTWORK SHALL BE ROUND SINGLE WALL SPIRAL PIPE AND FITTINGS, GALVANIZED STEEL, AS PER THE DESIGN REQUIREMENTS OF APPLICABLE SECTIONS OF SMACNA MANUALS FOR HIGH VELOCITY ROUND DUCTWORK. INSULATE WITH 2" EXTERIOR DUCT WRAP. SEAL ALL DUCT SEAMS AND JOINTS WITH HARDCAST AS HEREIN-AFTER SPECIFIED. ROUND "SNAP LOCK" TYPE DUCTWORK WILL NOT BE ACCEPTED.
- 5. ROUND AND OVAL RIGID DUCT, WHERE EXPOSED AND/OR NOTED ON THE DRAWINGS, SHALL BE DOUBLE WALL AND SHALL BE CONSTRUCTED OF PERFORATED INNER LINER, A 1" LAYER OF FIBERGLASS INSULATION, AND AN OUTER PRESSURE SHELL. DUCTWORK SHALL BE OF SPIRAL LOCKSEAM CONSTRUCTION FABRICATED IN ACCORDANCE WITH ASTM-A527 STANDARDS. SEAL ALL SEAMS, JOINTS, AND WALL PENETRATIONS WITH HARDCAST ELASTOMERIC TAPE AS HEREIN-BEFORE SPECIFIED. DUCTWORK SHALL BE PAINT GRIP GALVANIZED STEEL. PROVIDE WELDED FACTORY INSULATED SUPPLY TAPS AS INDICATED ON THE DRAWINGS. MINIMUM STEEL GAUGES, HANGER SPACING, SUPPORT SIZES AND ATTACHMENTS, AND REINFORCEMENT SHALL BE SMACNA DUCT CONSTRUCTION STANDARDS. INSULATE ALL REGISTER TAPS.
- 6. ALL DUCTS SHALL BE SEALED PER SMACNA SEAL CLASS A. ALL JOINTS, LONGITUDINAL SEAMS AND WALL PENETRATIONS OF ALL SUPPLY, RETURN OUTSIDE AIR AND EXHAUST DUCTS SHALL BE SEALED WITH AN ELASTOMERIC TAPE WHICH SHALL CONSIST OF A PRESSURE SENSITIVE LAYER OF MODIFIED BUTYL RUBBER SEALER LAMINATED TO A FOIL BACKING MATERIAL WHICH SHALL CONFORM TO SURFACE VARIATIONS AND IRREGULAR AREAS AND SHALL NOT HARDEN CRACK OR PEEL. THE SEALANT SHALL BE WATERPROOF AND SHALL BE A MINIMUM OF 15 MILS THICK. ALL DUCTWORK SHALL BE CLEANED AND PREPARED AND SEALANT SHALL BE APPLIED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SEALANT SHALL BE HARDCAST FG-1402, SURETAPE #653 OR APPROVED EQUAL, AT CONTRACTOR'S OPTION FLANGED GASKETED DUCT SYSTEM MAY BE USED FOR POSITIVE PRESSURE SYSTEM ONLY.
- 7. FLEXIBLE ROUND DUCT WHERE INDICATED ON PLANS SHALL BE LISTED BY UNDERWRITERS' LABORATORIES, INC., UNDER UL-181 STANDARDS AS CLASS 1 FLEXIBLE AIR DUCT MATERIAL COMPLYING WITH NFPA STANDARDS 90A. DUCTS SHALL BE RATED ON MAXIMUM PRESSURE OF 6 INCHES WG POSITIVE AND 2 INCHES WG NEGATIVE. THE DUCT SHALL BE FACTORY FABRICATED ASSEMBLY COMPOSED OF: AN INNER DUCT OF WOVEN AND COATED FIBERGLAS PROVIDING AN AIR SEAL AND BONDED PERMANENTLY TO CORROSION RESISTANT COATED STEEL WIRE HELIX; A 2" THICK FIBERGLAS INSULATING BLANKET AND LOW PERMEABLY OUTER VAPOR BARRIER OF FIBERGLAS REINFORCED METALIZED FILM LAMINATE. PRESSURE DROP NOT TO EXCEED .15" SP AT 500 FPM THROUGH 6" OR LARGER DUCT. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 6'-0". CONNECT FLEXIBLE ROUND DUCT WITH 1/2" WIDE POSITIVE LOCKING NYLON STRAPS ON INNER DUCT AND OUTER DUCT.
- 8. SPLITTER DAMPERS SHALL BE INSTALLED WHERE BRANCHES TAKE OFF OF MAIN TRUNK DUCTWORK, WHERE DUCTS DIVIDE OR WHERE SHOWN ON THE DRAWINGS. SPLITTERS SHALL BE FITTED WITH NICKEL PLATED DAMPER REGULATORS IN FINISHED AREAS. SPLITTERS SHALL BE FACTORY FABRICATED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.
- B. FLEXIBLE CONNECTIONS SHALL BE PROVIDED BETWEEN EACH FAN UNIT AND DUCTWORK ON SUPPLY SIDE AND ALSO ON RETURN SIDE. MATERIAL SHALL BE FLEXIBLE FIRE-RESISTIVE MATERIAL, MINIMUM 4" WIDE, UL LISTED, WITH NO METAL TO METAL CONTACT.
- C. DUCT SUPPORTS FOR RECTANGULAR DUCTS SHALL BE A MINIMUM 1" X 18 GAUGE GALVANIZED STEEL BANDS. HANGER BANDS SHALL BE BENT UNDER LOWER CORNERS AND SECURED WITH SELF-TAPPING SCREWS AT CORNERS AND SIX (6") INCH INTERVALS UP THE SIDES. DISTANCE BETWEEN HANGERS SHALL BE AS RECOMMENDED BY SMACNA MANUAL FOR LOW AND MEDIUM DUCTWORK. DUCTWORK SHALL BE RIGIDLY SUPPORTED TO PREVENT VIBRATION. DUCT ATTACHMENTS TO STRUCTURE, LOWER HANGER ATTACHMENTS, DUCTS TRAPS AND RODS AND TRAPEZE ANGLES SHALL BE IN ACCORDANCE WITH SMACNA LOW PRESSURE AND HIGH PRESSURE DUCT STANDARDS.
- D. WHERE THE DUCTS PASS THROUGH WALLS, DRAFT STOPS OR PARTITIONS, THE SPACE SHALL BE PACKED WITH NON-COMBUSTIBLE MATERIALS, FILLING ALL VOIDS AROUND DUCT.
- E. FIRE DAMPERS WITH FUSIBLE LINKS SHALL BE INSTALLED AT ALL POINTS WHERE DUCTWORK PENETRATES FIRE RATED WALLS, FLOORS AND CEILINGS, AS REQUIRED BY NFPA, 90-A, AND THE INTERNATIONAL MECHANICAL CODE. WEATHER INDICATED ON DRAWINGS OR NOT. SHEET METAL CONTRACTOR SHALL REVIEW ALL DRAWINGS AND INCLUDE THESE FIRE DAMPER COSTS IN HIS BID. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR FAILURE TO BE SO INFORMED.
- F. PROVIDE RADIUS ELBOWS UNLESS SPECIFICALLY INDICATED OTHERWISE OR SPACE PROHIBITIVE. RECTANGULAR RADIUS ELBOWS SHALL BE FACTORY FABRICATED WITH A CENTERLINE RADIUS OF NOT LESS THAN THE WIDTH OF THE DUCT. ROUND DUCT ELBOWS SHALL HAVE A MINIMUM CENTER LINE RADIUS OF 1-1/2 TIMES THE DIAMETER OF THE DUCT AND SHALL BE SMOOTH WHERE POSSIBLE. PROVIDE SQUARE ELBOWS WHERE INDICATED OR SPACE PROHIBITS THE USE OF RADIUS ELBOWS. SQUARE ELBOWS SHALL BE FACTORY FABRICATED WITH DOUBLE THICKNESS AIRFOIL TURNING VANES PRE-ASSEMBLED AND SECURELY ATTACHED TO RUNNERS.
- G. IN GENERAL, VERTICAL RISERS AND OTHER DUCT RUNS, WHERE THE METHOD OF SUPPORT SPECIFIED ABOVE IS NOT APPLICABLE, OR NOT SPECIFICALLY DETAILED ON DRAWINGS, SHALL BE SUPPORTED BY SUBSTANTIAL ANGLE BRACKETS DESIGNED TO MEET FIELD CONDITIONS, INSTALLED TO ALLOW FOR DUCT EXPANSION AND APPROVED BY ARCHITECT.
- I. MAXIMUM DUCT LEAKAGE SHALL BE +/- 5%, SMACNA SEAL CLASS A. DUCTWORK BETWEEN VAV BOX AND AIR-HANDLING UNIT SHALL BE DESIGNED FOR 4.0" STATIC PRESSURE. DUCTWORK BETWEEN VAV BOX AND DIFFUSER SHALL BE DESIGNED FOR 2.0" STATIC PRESSURE. OUTSIDE AIR, RETURN AIR AND EXHAUST AIR SYSTEMS SHALL BE DESIGNED FOR 2.0" STATIC PRESSURE. CONSTRUCT DUCTWORK IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR THE SPECIFIED PRESSURE CLASS.
- J. INSTALL AUTOMATIC DAMPERS, AIRFLOW STATIONS AND OTHER DUCT MOUNTED DEVICES REQUIRED TO AUGMENT THE TEMPERATURE CONTROLS AS HEREIN-AFTER SPECIFIED.
- K. FLANGED GASKETED EXHAUST AND RETURN DUCTWORK WILL NOT BE ACCEPTED.

FIRE DAMPERS

FIRE DAMPERS SHALL BE SOLID SHEET CURTAIN TYPE, DYNAMIC CLOSURE TYPE CORROSION RESISTANT GALVANIZED STEEL CONSTRUCTION. DAMPERS MOUNTED IN THE HORIZONTAL POSITION SHALL BE CLOSED BY A STAINLESS STEEL NEGATE SPRING. DAMPER TO BE EASILY RESET THROUGH STANDARD ACCESS PANEL FOR REQUIRED PERIODIC MAINTENANCE. ACCESS PANELS ARE REQUIRED FOR ACCESS TO ALL FIRE DAMPERS, SIZE 12 X 12 INCHES. DAMPERS SHALL BE 100% OUT OF AIR STREAM. FULLY INSULATE ALL FIRE DAMPER INSTALLATIONS TO PREVENT CONDENSATION.

ACCESS DOORS

ACCESS DOORS SHALL BE INSTALLED IN DUCTWORK WHEREVER REQUIRED FOR READY ACCESS TO ANY OPERATING PART. DOORS SHALL NOT BE SMALLER THAN 12 X 12 INCHES, WITH BRASS HINGE AND SASH TYPE FASTENERS.

EXHAUST FANS

SIZE AND QUANTITY SHALL BE PROVIDED AS INDICATED ON DRAWINGS.

PIPING AND FITTINGS

- A. FURNISH AND INSTALL ALL PIPING RELATED TO AIR CONDITIONING SYSTEMS INCLUDING AIR CONDITIONING CONDENSATION DRAINS, AND OTHER MISCELLANEOUS PIPING.
- B. ALL PIPING SHALL BE INSTALLED PARALLEL AND SQUARE WITH BUILDING LINES AND SHALL BE SLOPED TO PERMIT DRAINAGE, WITH SUITABLE PROVISION FOR DRAINAGE AT ALL LOW POINTS.
- C. PIPING SHALL BE ARRANGED TO MAINTAIN HEADROOM AND KEEP PASSAGEWAYS CLEAR AND WHERE NECESSARY SHALL BE OFFSET TO MAINTAIN THE REQUIRED CLEARANCE AND CONFORM WITH THE STRUCTURAL FEATURES OF THE BUILDING. CONTRACTOR SHALL DETERMINE IN ADVANCE OF CONSTRUCTION LOCATIONS FOR ALL PIPING SLEEVES, HANGERS, ETC. NO ALLOWANCE WILL BE MADE FOR EXTRA DUE TO INACCURATE LOCATION OF SLEEVES, PIPING OR EQUIPMENT.
- D. ALL PIPING SHALL HAVE PROVISIONS FOR EXPANSION AND CONTRACTION WITH ANCHORAGE AT EACH POINT SHOWN ON THE PLANS AND/OR AS REQUIRED.
- E. FULL LENGTH PIPE SHALL BE USED WHERE POSSIBLE, SHORT LENGTHS AND COUPLINGS WILL NOT BE PERMITTED. AFTER CUTTING, ALL PIPES SHALL BE REAMED OUT TO FULL BORE AND BEFORE ERECTION, ALL CUTTING AND FOREIGN MATTER SHALL BE REMOVED FROM THE INSIDE OF PIPES. SCREWED JOINTS SHALL BE MADE TIGHT WITHOUT CAULKING OR THE USE OF LEAD OR PAINT AND NO LUBRICANT SHALL BE USED EXCEPT FLAKE GRANITE AND CYLINDER OIL PASTE, OR APPROVED PIPE COMPOUND APPLIED TO CONNECT THREADED PIPE.
- F. PIPE SLEEVES SHALL BE PROVIDED FOR THE PASSAGE OF ALL PIPES THROUGH WALLS, FLOORS AND PARTITIONS.
- G. ALL CONDENSATE DRAIN PIPING SHALL BE INSTALLED USING STANDARD WEIGHT GALVANIZED STEEL PIPE WITH GALVANIZED THREADED CAST-IRON DRAINAGE FITTINGS, OR TYPE "L" COPPER. CHANGES IN DIRECTION OF PIPING SHALL BE MADE WITH SHORT TURN TEE PATTERN OR 45 DEGREE WYE FITTINGS WITH BRASS CLEANOUT PLUG. INSULATE DRAIN PIPING PER SECTION 22 07 00.



SEPTEMBER 9, 2022

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JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

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N-Y Proj No: 21008.01
Date: SEPTEMBER 9, 2022
Revised:
MECHANICAL -
SPECIFICATIONS

DRAWN BY: LAR
CHECKED BY: DEV
DESIGNED BY: NOT

M-0.2

V - HVAC SYSTEMS (CONT'D.)

100% OUTSIDE AIR UNIT WITH ENERGY RECOVERY

QUALITY ASSURANCE

- A. ENTIRE UNIT SHALL BE UL 1812 OR UL 1995 CERTIFIED AND BEAR CERTIFICATION LABEL BY ETL, UL OR CSA.
- B. UNIT SHALL MEET ASHRAE STANDARD 90.1 PERFORMANCE REQUIREMENTS.
- C. UNIT SOUND DATA WILL BE TESTED IN ACCORDANCE TO AHRI 260

MANUFACTURERS

- A. SUBJECT TO COMPLIANCE WITH PROJECT PLANS AND SPECIFICATIONS THE FOLLOWING MANUFACTURERS ARE APPROVED TO SUPPLY PRODUCTS. ACCEPTABLE MANUFACTURERS: OXYGEN8.

DOAS UNITS

- A. DOAS UNITS SHALL BE FACTORY ASSEMBLED AND TESTED. UNITS SHALL INCLUDE INSULATED STEEL CABINET WITH STEEL BASE, TOTAL SENSIBLE PLATE HEAT EXCHANGER, SPLIT DX COOLING COIL, FAN AND MOTOR ASSEMBLY, FILTER RACK, AND INTEGRAL CONTROLS. UNIT SHALL HAVE SINGLE POINT POWER CONNECTIONS.

CABINET

- A. CABINET SHALL BE NOMINAL 1-INCH DOUBLE WALL PANEL WITH R6.5 2.5LB/FT³ POLYURETHANE FOAM THERMAL INSULATION. CABINET EXTERIOR SHALL BE 20-GAUGE PRE-PAINTED STEEL THAT MEETS OR EXCEEDS 650 HOUR SALT SPRAY TEST BASED ON ASTM B117. 22 GAUGE LINERS AND OTHER STEEL COMPONENTS SHALL BE GALVANIZED STEEL. ALL SEAMS SHALL BE SEALED TO PROVIDE AIRTIGHT CASING.
- B. DOORS SHALL BE NOMINAL 1-INCH DOUBLE WALL PANEL WITH THE SAME CONSTRUCTION AS CABINET. DOORS SHALL BE FITTED WITH HINGES AND DOOR HANDLES. THE DOORS SHALL HAVE ONE LOCKABLE HANDLE AS STANDARD.
- C. THE UNIT WILL BE DESIGNED FOR SERVICE AND MAINTENANCE ON ONE SIDE ONLY TO ALLOW FOR A COMPACT INSTALLATION.
- D. ALL DAMPERS SHALL INCLUDE FACTORY MOUNTED, WIRED AND TESTED ACTUATORS. DAMPERS SHALL BE MODULATING OR TWO POSITION AS REQUIRED. PROVIDE SPRING RETURN DAMPERS FOR OUTDOOR AIR CONNECTIONS.

FILTERS

- A. UNIT SHALL INCLUDE 2" FILTER RACK FOR THE SUPPLY AIR AND RETURN AIR PATHS UPSTREAM OF ENERGY RECOVERY EXCHANGER. FILTERS SHALL BE ACCESSED THROUGH HINGED FILTER ACCESS DOOR. SUPPLY ONE SET OF MERV13 PLEATED FILTERS FOR THE OUTDOOR AIR STREAM AND ONE SET OF MERV13 FOR THE RETURN AIR STREAM. ALL FILTERS MUST BE UL APPROVED.
- B. PROVIDE FACTORY MOUNTED PRESSURE SENSORS TO MEASURE FILTER PRESSURE DROP ACROSS PRE-FILTER AND MAIN FILTER. PRESSURE DROP SHALL BE DIGITALLY FEEDBACK TO CONTROLLER FOR UTILIZATION IN CONTROL AND ALARM SEQUENCING. UNIT CONTROLLER SHALL MONITOR FILTER PRESSURE LEVEL AND REPORT WHEN FILTER CHANGES ARE REQUIRED.

FANS

- A. FANS SHALL BE MIXED FLOW PLENUM TYPE WITH DIRECT DRIVE MOTOR. FAN AND MOTOR ASSEMBLY SHALL BE FACTORY MOUNTED AND BALANCED. THE FANS WILL BE CAPABLE OF OPERATING IN AMBIENT TEMPERATURES OF UP TO 40°C.
- B. THE FANS MUST BE SIZED TO HAVE A SPECIFIC FAN POWER OF <1 WATT/CFM.
- C. FAN MOTORS SHALL BE PERMANENT MAGNET, SYNCHRONOUS MOTOR TYPE WITH INTEGRAL DIGITAL MOTOR CONTROLLER. FAN BEARINGS SHALL BE SERVICEABLE TYPE WITH AN L-10 LIFE OF 40,000 HOURS. FAN MOTORS WILL BE UL APPROVED.
- D. ALL FANS SHALL BE EQUIPPED WITH INTEGRAL AIRFLOW MONITORING SYSTEM CONNECTED TO THE UNIT CONTROLLER.
- E. PROVIDE MEANS TO EASILY REMOVE FAN-MOTOR ASSEMBLY FOR SERVICE THROUGH STANDARD DOORS.
- F. FANS SHOULD BE DESIGNED SUCH THAT ALL SERVICE CAN BE PERFORMED IN THE FIELD, INCLUDING REPLACEMENT OF BEARINGS.
- G. FAN MOTOR DRIVES SHALL BE 240/60/1 AND BE UL APPROVED. FANS WILL BE PROTECTED BY UL APPROVED MOTOR PROTECTION CIRCUIT BREAKER.

ENERGY RECOVERY DEVICE

- A. WHERE INDICATED, UNITS SHALL INCLUDE PLATE TYPE CROSS FLOW HEAT EXCHANGER FABRICATED FROM POLYMER MEMBRANE. UNIT SHALL BE CAPABLE OF WITHSTANDING A MAXIMUM OF 7.2" W.C. MAXIMUM LEAKAGE BETWEEN AIRSTREAMS SHALL BE 0.5% OF NOMINAL AIRFLOW.
- B. THE ENERGY RECOVER EFFICIENCY MUST BE A MINIMUM OF 50% TOTAL TO MEET ASHRAE 90.1.
- C. ENERGY RECOVERY DEVICE SHALL BE AHRI 1060 CERTIFIED.

DX HEAT PUMP COIL (HEATING AND COOLING)

- A. WHERE INDICATED, UNIT SHALL INCLUDE AHRI 410 TESTED FIN TUBE TYPE DX COIL FOR USE WITH R-410A. FINS SHALL BE COPPER WITH A MINIMUM THICKNESS OF 0.006". TUBES SHALL BE 3/8" OD, 0.020" TUBE WALL SEAMLESS COPPER TUBE MECHANICALLY EXPANDED INTO FINS. COIL SHALL HAVE INTERLACED CIRCUITS TO MATCH REMOTE CONDENSING UNIT WHEN REQUIRED. COIL CASINGS SHALL BE GALVANIZED STEEL. COILS SHALL INCLUDE EXTERNAL DRAIN AND VENT CONNECTIONS. COIL SHALL BE MOUNTED IN A RACK OVER A STAINLESS-STEEL DOUBLE SLOPED CONDENSATE PAN. COIL SHALL BE SHIPPED WITH NITROGEN HOLDING CHARGE AND TESTED TO 700 PSI.
- B. WHEN VRV INTEGRATION IS USED, THE AHU INTEGRATION CONTROLLER (EKEQ) MUST BE FACTORY MOUNTED AND WIRED TO EKEXV EXPANSION VALVE KIT.
- C. LIQUID AND GAS THERMISTORS ARE TO BE MOUNTED TO COIL AND WIRED TO EKEQ KIT IN THE FACTORY.
- D. EKEXV EXPANSION VALVE KIT WILL BE MOUNTED, AND CONNECTIONS WILL BE BRAZED TO COIL. LIQUID AND GAS LINES TO BE CAPPED AT OUTSIDE OF AHU. COIL AND EKEXV KIT MUST BE TESTED TO 400 PSI, AND THEN NITROGEN CHARGED FOR SHIPMENT TO SITE.

CONTROLS

- A. UNIT SHALL INCLUDE AN INTEGRATED MICROPROCESSOR-BASED UNIT CONTROLLER. THE CONTROLS SHALL BE LOCATED IN THE INTEGRAL CONTROL'S CABINET. ALL UNIT CONTROLS SHALL OPERATE OFF A TRANSFORMER FROM THE MAIN POWER SUPPLY FOR SINGLE POINT POWER CONNECTION. ALL INTERNAL CONTROLS AND SENSORS SHALL BE FACTORY PREWIRED AND TESTED.
- B. INCLUDE WITH EACH UNIT TOUCH PAD TYPE HUMAN INTERFACE THAT ALLOWS MONITORING AND CONTROL OF ALL UNIT FUNCTIONS. HUMAN INTERFACE SHALL COMMUNICATE WITH UNIT CONTROLLER BY HARDWIRE CONNECTION. HUMAN INTERFACE SHALL BE UNIT MOUNTED.
- C. THE CONTROL SYSTEM WILL REGULATE TEMPERATURES, AIRFLOWS AND OTHER FUNCTIONS AS REQUIRED. UNIT CONTROLLER SHALL BE PRE-PROGRAMMED WITH FACTORY TESTED SOFTWARE FOR ALL POSSIBLE FUNCTIONS.
- D. THE CONTROLLER SHALL PROVIDE THE FOLLOWING, REFER TO SEQUENCE OF OPERATION FOR SPECIFIC UNIT CONTROL SEQUENCES:
 - CONTROL OF FANS CORRECTING FOR BOTH CHANGES IN TOTAL STATIC PRESSURE AND AIR DENSITY IN BOTH VAV AND CONSTANT AIRFLOW APPLICATIONS.
 - FAN PERFORMANCE MONITORING.
 - VENTILATION AIRFLOW MONITORING AND CONTROL.
 - AIRFLOW DENSITY CORRECTION FOR WINTER AND SUMMER CONDITIONS.
 - ENERGY RECOVERY OPTIMIZATION INCLUDING OPERATION OF ROTARY ENERGY RECOVERY DEVICE.
 - SUPPLEMENTAL HEATING AND COOLING WHEN INCLUDED.
 - FROST PROTECTION.
 - MONITORING ALARMS, FAULTS AND MAINTENANCE POINTS INCLUDING FILTER CHANGEOUT.
 - TIME AND DATE SCHEDULES.
 - HUMIDITY CONTROL.
 - DATA LOGGING AND TRENDING.

V - HVAC SYSTEMS (CONT'D.)

- E. CONTROLLER SHALL BE BACNET IP, BTL CERTIFIED AND INCLUDE MODBUS COMMUNICATION. COMMUNICATION SHALL INCLUDE MONITORING, CONTROL, ALARMS, FAULTS AND MAINTENANCE INFORMATION.
- F. PROVIDE FACTORY INSTALLED AND TESTED CONTACTORS, OVERLOADS, FUSING, STARTERS MOTOR SPEED CONTROLLERS FOR SUPPLY AND EXHAUST. INCLUDE ALL NECESSARY CONTROL TRANSFORMERS.
- G. PROVIDE UNIT MOUNTED NON-FUSED DISCONNECT SWITCH WITH SINGLE POINT POWER CONNECTION.
- H. SUPPLY ALL NECESSARY TEMPERATURE AND PRESSURE SENSORS COMPLETE WITH PLUG IN WIRING HARNESSSES FOR PROPER OPTION OF UNIT.
- I. WHEN VRV INTEGRATION IS USED, THE AHU INTEGRATION CONTROLLER (EKEQ) MUST BE FACTORY MOUNTED AND WIRED TO EKEXV EXPANSION VALVE KIT.
- J. LIQUID AND GAS THERMISTORS ARE TO BE MOUNTED TO COIL AND WIRED TO EKEQ KIT IN THE FACTORY.

PLASTIC COMPONENTS

- A. ALL PLASTIC COMPONENTS THAT ARE IN THE AIRSTREAM, MUST BE OF A UL94 RATED MATERIAL.
- B. IF GASKETING IS USED TO JOIN UNIT SECTIONS TOGETHER, GASKETING MUCH BE A UL94 APPROVED COMPOUND.

INSTALLATION

- A. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS, THESE SPECIFICATION, BEST PRACTICES AND ALL APPLICABLE BUILDING CODES.

START UP SERVICE

- A. ENGAGE FACTORY AUTHORIZED SERVICE TECHNICIAN TO START UP AND COMMISSION UNITS. PROVIDE START UP REPORT TO OWNER.

VI - TESTING, ADJUSTING AND BALANCING FOR HVAC

DESCRIPTION

- A. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO AIR SYSTEMS TESTING AND BALANCING.
- B. TESTING AND BALANCING SHALL NOT BEGIN UNTIL THE SYSTEMS HAVE BEEN COMPLETED AND ARE IN FULL WORKING ORDER.
- C. CONTRACTOR IS CAUTIONED THAT TEST AND BALANCE REPORT SHALL INCLUDE BOTH GRILLE COUNTS, AND SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCT TRAVERSES SO THAT DUCT LEAKAGE CAN BE CALCULATED AND PROVIDED.

REFERENCES

- A. AABC - NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE.
- B. NEBB - PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING.

SUBMITTALS

- A. SUBMIT NAME OF TESTING, ADJUSTING AND BALANCING AGENCY FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
- B. FIELD REPORTS SHALL BE PROVIDED THAT INDICATE DEFICIENCIES IN SYSTEMS THAT WOULD PREVENT PROPER TESTING, ADJUSTING, AND BALANCING OF SYSTEMS AND EQUIPMENT TO ACHIEVE SPECIFIED PERFORMANCE.

QUALITY ASSURANCE

PERFORM TOTAL SYSTEM BALANCE IN ACCORDANCE WITH AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, TOTAL SYSTEM BALANCE OR NEBB STANDARDS - PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS OR TESTING ADJUSTING AND BALANCING BUREAU (TABB)-NATIONAL STANDARDS FOR ENVIRONMENTAL SYSTEMS BALANCE.

QUALIFICATIONS

THE TESTING AGENCY SHALL BE A COMPANY SPECIALIZING IN THE TESTING, ADJUSTING, AND BALANCING OF SYSTEMS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS EXPERIENCE.

ADJUSTMENT DEVICES

REPLACEMENT OF ADJUSTABLE PULLEYS, ADDITIONAL BALANCING DAMPERS, ADDITIONAL FAN BELTS, PRESSURE TAPS AND FITTING, AND ANY OTHER DEVICES OR EQUIPMENT REQUIRED TO EFFECT PROPER TESTING, ADJUSTING AND BALANCING SHALL BE PROVIDED SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

EXAMINATION

- A. VERIFY THAT SYSTEMS ARE COMPLETE AND OPERABLE BEFORE COMMENCING WORK.
- B. BEGINNING OF WORK MEANS ACCEPTANCE OF INSTALLED HVAC CONDITIONS.

INSTALLATION TOLERANCES

- A. AIR HANDLING SYSTEMS: ADJUST TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN FOR SUPPLY SYSTEMS AND PLUS OR MINUS 10 PERCENT OF DESIGN FOR RETURN AND EXHAUST SYSTEMS.
- B. AIR OUTLETS AND INLETS: ADJUST TOTALS OF EACH SPACE TO WITHIN PLUS 10 PERCENT AND MINUS 10 PERCENT OF DESIGN TO SPACE. ADJUST OUTLETS AND INLETS IN EACH SPACE TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN.

ADJUSTING - GENERAL

- A. ENSURE RECORDED DATA REPRESENTS ACTUAL MEASURED OR OBSERVED CONDITIONS.
- B. PERMANENTLY MARK SETTING OF VALVES, DAMPERS, AND OTHER ADJUSTMENT DEVICES ALLOWING SETTING TO BE RESTORED. SET AND LOCK MEMORY STOPS.
- C. AFTER ADJUSTMENT, TAKE MEASUREMENT TO VERIFY BALANCE HAS NOT BEEN DISRUPTED OR THAT SUCH DISRUPTION HAS BEEN RECTIFIED.
- D. LEAVE SYSTEMS IN PROPER WORKING ORDER, REPLACING BELT GUARDS, CLOSING ACCESS DOORS, CLOSING DOORS TO ELECTRICAL SWITCH BOXES, AND RESTORING THERMOSTATS TO SPECIFIED SETTINGS.
- E. AT FINAL INSPECTION, RECHECK RANDOM SELECTIONS OF DATA RECORDED IN REPORT. RECHECK POINTS OR AREAS AS SELECTED AND WITNESSED BY THE ARCHITECT.

AIR SYSTEMS PROCEDURE (MINIMUM REQUIREMENTS)

- A. TEST AND ADJUST FAN RPM TO PROVIDE THE AIR QUANTITIES DESIGN REQUIREMENTS, AS SHOWN ON THE DRAWINGS.
- B. TEST AND RECORD MOTOR FULL LOAD NAMEPLATE RATING AND ACTUAL AMPERE DRAW.
- C. TEST AND RECORD SYSTEM STATIC PRESSURES, FAN SUCTION AND DISCHARGE.
- D. ADJUST ALL MAIN SUPPLY AND RETURN AIR DUCT TO PROPER DESIGN CFM, TO PROVIDE THE AIR QUANTITIES DESIGN REQUIREMENTS, AS SHOWN ON THE DRAWINGS.
- E. TEST AND ADJUST EACH DIFFUSER, GRILLE AND REGISTER. READING AND TESTS OF DIFFUSERS, GRILLES AND REGISTERS SHALL INCLUDE DESIGN VELOCITY (FPM) AND AS ADJUSTED VELOCITY, DESIGN CFM AND ADJUSTED CFM.
- F. TEST AND RECORD OUTSIDE, MIXED AIR AND DISCHARGE TEMPERATURES (D.B. FOR HEATING CYCLE, D.B. AND W.B. FOR COOLING CYCLE).
- G. IN COORDINATION WITH THE MECHANICAL CONTRACTOR, SET ADJUSTMENTS OF AUTOMATICALLY OPERATED DAMPERS TO OPERATE AS SPECIFIED, INDICATED AND/OR NOTED.

VI - TESTING, ADJUSTING AND BALANCING FOR HVAC (CONT'D.)

- H. TEST AND ADJUST AIR HANDLING AND DISTRIBUTION SYSTEMS TO PROVIDE REQUIRED OR DESIGN SUPPLY AND RETURN AIR QUANTITIES, AS SHOWN ON THE DRAWINGS.
- I. MAKE AIR QUANTITY MEASUREMENTS IN DUCTS BY PITOT TUBE TRAVERSE OF ENTIRE CROSS SECTIONAL AREA OF DUCT.
- J. MEASURE AIR QUANTITIES AT AIR INLETS AND OUTLETS.
- K. ADJUST DISTRIBUTION SYSTEM TO OBTAIN UNIFORM SPACE TEMPERATURES FREE FROM OBJECTIONABLE DRAFTS AND NOISE.
- L. USE VOLUME CONTROL DEVICES TO REGULATE AIR QUANTITIES ONLY TO EXTEND THAT ADJUSTMENTS DO NOT CREATE OBJECTIONABLE AIR MOTION OR SOUND LEVELS. EFFECT VOLUME CONTROL BY DUCT INTERNAL DEVICES SUCH AS DAMPERS AND SPLITTERS.
- M. VARY TOTAL SYSTEM AIR QUANTITIES BY ADJUSTMENT OF FAN SPEEDS. PROVIDE DRIVE CHANGES REQUIRED. VARY BRANCH AIR QUANTITIES BY DAMPER REGULATION.
- N. PROVIDE SYSTEM SCHEMATIC WITH REQUIRED AND ACTUAL AIR QUANTITIES RECORDED AT EACH OUTLET OR INLET
- O. MEASURE STATIC AIR PRESSURE CONDITIONS ON AIR SUPPLY UNITS, INCLUDING FILTER AND COIL PRESSURE DROPS, AND TOTAL PRESSURE ACROSS THE FAN. MAKE ALLOWANCES FOR 50 PERCENT LOADING OF FILTERS.
- P. ADJUST RETURN AIR AND EXHAUST DAMPERS FOR DESIGN CONDITIONS.

- Q. MEASURE TEMPERATURE CONDITIONS ACROSS AIR, RETURN AIR, AND EXHAUST DAMPERS TO CHECK LEAKAGE.
- R. WHERE MODULATING DAMPERS ARE PROVIDED, TAKE MEASUREMENT AND BALANCE AT EXTREME CONDITIONS.

WATER SYSTEM PROCEDURE (MINIMUM REQUIREMENTS)

- A. PREPARE ITEMIZED EQUIPMENT SCHEDULES, LISTING ALL HEATING AND/OR COOLING ELEMENTS AND EQUIPMENT IN THE SYSTEMS TO BE BALANCED. LIST IN ORDER ON EQUIPMENT SCHEDULES, BY PUMP OR ZONE ACCORDING TO THE DESIGN, ALL HEATING OR COOLING ELEMENTS ALL ZONE BALANCING VALVES CIRCUIT PUMP AND ENDING WITH THE LAST ITEMS OF EQUIPMENT OR TRANSFER ELEMENT IN THE RESPECTIVE ZONE OR CIRCUIT. INCLUDE ON SCHEDULE SHEET COLUMN TITLES LISTING THE LOCATION, TYPE OF ELEMENT OR APPARATUS, DESIGN CONDITIONS AND MEASURED CONDITIONS. PREPARE INDIVIDUAL REPORT SHEETS FOR EACH ZONE OR CIRCUIT.
- B. ADJUST WATER SYSTEMS (NEW AND EXISTING AS INDICATED ON DRAWINGS) TO PROVIDE REQUIRED OR DESIGN QUANTITIES.
- C. ADJUST SYSTEMS TO PROVIDE SPECIFIED PRESSURE DROPS AND FLOWS THROUGH HEAT TRANSFER ELEMENTS PRIOR TO THERMAL TESTING. PERFORM BALANCING BY MEASUREMENT OF TEMPERATURE DIFFERENTIAL IN CONJUNCTION WITH AIR BALANCING.
- D. EFFECT SYSTEM BALANCE WITH AUTOMATIC CONTROL VALVES FULLY OPEN TO HEAT TRANSFER ELEMENTS.
- E. EFFECT ADJUSTMENT OF WATER DISTRIBUTION SYSTEMS BY MEANS OF BALANCING COCKS, VALVES, AND FITTINGS. DO NOT USE SERVICE OR SHUT-OFF VALVES FOR BALANCING UNLESS INDEXED FOR BALANCE POINT.

REQUIRED REPORTS TO BE SUBMITTED

THE FOLLOWING REPORTS SHALL BE SUBMITTED, AS A MINIMUM, WITH A COMPLETE TITLE PAGE, SUMMARY , AND INSTRUMENT LIST. ALL DATA AND NOMENCLATURE SHALL BE PROVIDED, AS REQUIRED BY AABC AND/OR NEBB PROCEDURE MANUALS, FOR EACH DEVICE TESTED AND BALANCED.

- 1. ELECTRIC MOTORS.
- 2. V-BELT MOTORS.
- 3. VFD DRIVES.
- 4. PUMP DATA.
- 5. HEATING AND COOLING COILS DATA.
- 6. AIR MOVING EQUIPMENT.
- 7. RETURN AIR/ OUTSIDE AIR DATA.
- 8. EXHAUST AIR DATA.
- 9. DUCT TRAVERSES.
- 10. AIR DISTRIBUTION TEST SHEETS.

COMMISSIONING

BALANCING AGENCY SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR THE COMMISSIONING REQUIREMENTS AS HERE-IN-BEFORE SPECIFIED.

VII - VALVES AND FITTINGS FOR PLUMBING AND HVAC

SUMMARY

- A. THE WORK UNDER THIS HEADING INCLUDES THE FURNISHING AND INSTALLING OF ALL REQUIRED APPURTENANCES INCIDENTAL TO THE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS.
- B. REFER TO MECHANICAL GENERAL, WHICH SHALL APPLY TO ALL WORK IN THIS SECTION.

COMPONENTS

- A. PROVIDE FACTORY-FABRICATED VALVES FOR USE IN SERVICE INDICTED. PROVIDE VALVES OF TYPES AND PRESSURE RATINGS INDICATED; PROVIDE PROPER SELECTION TO COMPLY WITH INSTALLATION REQUIREMENTS. PROVIDE SIZES AS INDICATED, AND CONNECTIONS, WHICH PROPERLY MATE WITH PIPE, TUBE, AND EQUIPMENT CONNECTIONS. WHERE MORE THAN ONE TYPE IS INDICATED, SELECTION IS INSTALLER'S OPTION. VALVES SHALL BE OF SAME MAKE FOR ALL THESE SERVICES.
- B. VALVES SHALL COMPLY WITH THE FOLLOWING:
 - BALL - MSS SP-110
 - CHECK - CAST IRON - MSS SP-71
 - CHECK - BRONZE - MSS SP-80
- C. SUBJECT TO COMPLIANCES WITH THE REQUIREMENTS THE FOLLOWING MANUFACTURERS ARE CONSIDERED AS ACCEPTABLE:
 - HAMMOND VALVE CORPORATION
 - STOCKHAM VALVE
 - NIBCO
 - MILWAUKEE VALVE COMPANY
- D. BALL VALVES SHALL HAVE FULL PORT OPENING BLOW-OUT PROOF STEM: HARD CHROME PLATED FORGED BRASS BALL, RATED NOT LESS THAN 600# W.O.G.
- E. PROVIDE VALVES WITH FEATURES INDICATED AND WHERE NOT OTHERWISE INDICATED, PROVIDE PROPER VALVE FEATURES AS OUTLINED IN THIS SPECIFICATION. COMPLY WITH ANSI B31.1.
- F. VALVE FLANGES SHALL COMPLY WITH ANSI B16.1 (CAST IRON), ANSI B16.5(STEEL), ANSI B16.24 (BRONZE).
- G. THREADED VALVE ENDS SHALL COMPLY WITH ANSI B2.1.
- H. BUTT-WELD VALVE ENDS SHALL COMPLY WITH ANSI B16.25.
- I. SOLDER JOINT VALVE ENDS SHALL COMPLY WITH ANSI B16.18.
- J. ALL MATERIAL SHALL BE NEW, OF THE BEST QUALITY, WITH SAME BRAND OF MANUFACTURER FOR ALL SIMILAR INSTALLATIONS.
- K. USE FULL FLOW ECCENTRIC NON-LUBRICATED VALVES ON ALL CHILLED WATER AND HEATING WATER PIPING SYSTEMS 2-1/2" AND LARGER. NO GATE VALVES OR BUTTERFLY VALVES WILL BE ALLOWED.
- L. USE BALL VALVES IN ALL PLUMBING PIPING SYSTEMS AND FOR MANUAL AIR VENTING AND DRAINS IN AIR CONDITIONING AND HEATING PIPING SYSTEMS. NO GLOBE VALVES, GATE VALVES OR BUTTERFLY VALVES WILL BE ALLOWED. USE FULL PORT BRONZE BALL VALVES AT SUPPLY AND RETURN PIPING CONNECTIONS AT A/C UNIT CHILL WATER AND HEATING WATER COILS, SIZE 2-1/2" AND SMALLER, AND HYDRONIC PIPING MAINS AND BRANCHES 2" AND SMALLER.



SEPTEMBER 9, 2022

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JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
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N-Y Proj No: 21008.01
Date: SEPTEMBER 9, 2022
Revised:
MECHANICAL -
SPECIFICATIONS

DRAWN BY: LAR
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VII - VALVES AND FITTINGS FOR PLUMBING AND HVAC (CONT'D)

ECCENTRIC FULL FLOW NON LUBRICATED VALVES

- A. VALVES IN THE IRON PIPING SYSTEMS OF CHILLED WATER SYSTEM 3" IN SIZE AND LARGER SHALL BE ECCENTRIC FULL FLOW NON-LUBRICATED TYPE. VALVES SHALL BE FLANGED TYPE.
- B. VALVE BODY ASTM A126, CLASS B, WELDED NICKEL CORROSION RESISTANT SEATS, PLUGFACING MATERIAL SUITABLE FOR USE WITH WATER TEMPERATURES TO 250 DEGREES FAHRENHEIT. VALVES SHAFT SEALS SHALL BE EXTERNALLY ADJUSTABLE AND REPLACEABLE WITH VALVE UNDER LINE PRESSURE (STEM SEALED WITH MULTIPLE PACKING RINGS). DEZURIK CO. SERIES 100, OR APPROVED EQUAL.
- C. VALVES SHALL HAVE GEAR DRIVE WHEEL HANDLE. VALVES SHALL CLOSE AGAINST DIFFERENTIAL PRESSURE OF PUMPING SYSTEM - VERIFY. DESIGNED FOR A MINIMUM OF 175 PSI., PRESSURE DIFFERENTIAL.

BALL VALVES

- A. GENERAL - FULL PORT OPENING BLOW-OUT PROOF STEM: HARD CHROME PLATED FORGED BRASS BALL, RATED NOT LESS THAN 600# W.O.G. (WHERE CV FACTOR IS CRITICAL USE FULL PORT OPENING).
- B. FOR DOMESTIC WATER SERVICE - THREADED ENDS 4" AND SMALLER: 600# W.O.G., FORGED BRASS TWO PIECE BODY, HARD CHROME PLATED FORGED BRASS BALL, TRUE ADJUSTABLE PACKING NUT ("O"- RING ONLY TYPE STEM SEAL NOT ACCEPTABLE), BLOW-OUT PROOF STEM: RED-WHITE 5044F, NIBCO T-585-70, STOCKHAM S216-BR-RT, APOLLO 70-SERIES. SOLDERED ENDS 3" AND SMALLER: 600# W.O.G., FORGED BRASS TWO PIECE BODY, HARD CHROME PLATED FORGED BRASS BALL, TRUE ADJUSTABLE PACKING NUT ("O"-RING ONLY TYPE STEM SEAL NOT ACCEPTABLE), BLOW-OUT PROOF STEM: RED-WHITE 5049F, NIBCO S-585-70, STOCKHAM S216-BR-RS, APOLLO 70-SERIES.
- C. FOR HVAC CHILLED WATER SERVICE - THREADED ENDS 4" AND SMALLER AND SUPPLY AND RETURN PIPING CONNECTIONS AT ALL AIR HANDLING UNITS, CHILL WATER AND HEATING HOT WATER COIL CONNECTIONS: 600# W.O.G., FORGED BRASS TWO PIECE BODY, HARD CHROME PLATED FORGED FULL PORT BRASS BALL, TRUE ADJUSTABLE PACKING NUT ("O"-RING ONLY TYPE STEM SEAL NOT ACCEPTABLE), BLOW-OUT PROOF STEM: RED-WHITE 5044F, NIBCO T-585-70, STOCKHAM S216-BR-RT, APOLLO 70-SERIES. SOLDERED ENDS 3" AND SMALLER: 600# W.O.G., FORGED BRASS TWO PIECE BODY, HARD CHROME PLATED FORGED BRASS BALL, TRUE ADJUSTABLE PACKING NUT ("O"-RING ONLY TYPE STEM SEAL NOT ACCEPTABLE), BLOW-OUT PROOF STEM: RED-WHITE 5049F, NIBCO S-585-70, STOCKHAM S216-BR-RS, APOLLO 70-SERIES.

LUBRICATED PARALLEL PLUG VALVES

- A. LUBRICATED PARALLEL PLUG VALVES SHALL BE INSTALLED AT ALL LOCATIONS SHOWN ON THE DRAWINGS FOR GAS VALVES AND SHALL BE THE SAME SIZES AS THE ENTERING PIPE. VALVES SHALL HAVE A PRESSURE RATING OF 125 PSI AT 450 DEGREES F AND 200 PSI FROM -20 DEGREES F TO 150 DEGREES F.
- B. VALVES SHALL BE OF THE LUBRICATED PARALLELED (CYLINDRICAL) PLUG TYPE WITH CLEARANCE BETWEEN PLUG AND BODY SEALING SURFACES EQUAL TO, OR LESS THAN .002 INCH. THE BODY, PLUG AND BOTTOM COVER SHALL BE CAST IRON (ASTM A126 C1B).
- C. VALVES SHALL BE FLANGED WITH FACE TO FACE DIMENSIONS IN ACCORDANCE WITH ANSI B16.10 SHORT PATTERN.
- D. THE PLUG SHALL HAVE A RECTANGULAR PORT, REDUCED BORE, HAVING A FLOW AREA EQUAL TO, OR GREATER THAN, 60% OF THE SAME SIZE OF THE PIPE. THE BODY/PLUG JUNCTURE SHALL HAVE A REINFORCED TFE THRUST WASHER TO MINIMIZE OPERATING TORQUE. THE VALVE BODY SHALL HAVE A SURFACE PENETRATING HOT PHOSPHATE PROTECTIVE TREATMENT. EACH VALVE SHALL HAVE AN OPERATING WRENCH HANDLE PERMANENTLY ATTACHED TO THE VALVE OPERATING STEM.
- E. THE VALVE LUBRICATING SYSTEMS SHALL HAVE A LUBRICATING SCREW WITH BUTTONHEAD FITTING, AND A TIGHT SEALING LUBRICATED CHECK VALVE IN THE VALVE STEM, AND SHALL BE SO CONSTRUCTED AS TO ENSURE COMPLETE LUBRICATION OF ALL SEALING SURFACES. LUBRICANT EXTRUDING AROUND THE VALVE STEM SHALL INDICATE THAT THE SYSTEM IS FILLED TO CAPACITY. THE SEALING COMPOUND SHALL HAVE A TEMPERATURE RANGING FROM -20 DEGREES F TO 400 DEGREES F.
- F. VALVES SHALL BE MILLIKEN MODEL 171M OR HOMESTEAD MODEL 612, OR APPROVED EQUAL.

SWING CHECK VALVE IN COPPER PIPING

THROUGH 3" HAMMOND 912; 4" AND ABOVE HAMMOND IR-1124, SWING TYPE, WITH DIELECTRIC GASKET AND INSULATED BOLTS.

CHECK VALVES IN STEEL PIPING

- A. THROUGH 3" HAMMOND 904; 4" AND ABOVE HAMMOND IR-1124, SWING TYPE.
- B. CHECK VALVES AT PUMP DISCHARGE SHALL BE GLOBE STYLE SILENT CHECK TYPE WITH FLANGE CONNECTIONS. METRAFLEX STYLE 900 OR APPROVED EQUAL.

UNIONS IN COPPER LINES

NIBCO #733 CAST BRONZE UNIONS.

UNIONS IN CONNECTION BETWEEN COPPER AND STEEL OR IRON PIPING

DIELECTRICALLY ISOLATION UNION ON 2" SIZE AND SMALLER AND DIELECTRICALLY ISOLATED GASKETED FLANGES OR 2-1/2" SIZE AND LARGER.

UNIONS IN BLACK STEEL, WROUGHT IRON OR GALVANIZED STEEL PIPING

GROUND JOINT MALLEABLE IRON GALVANIZED FOR 2-1/2" NOMINAL PIPE SIZES OR SMALLER. FOR PIPE SIZES 3" AND LARGER USE FORGED STEEL WELDING FLANGES (GALVANIZED FOR GALVANIZED PIPING).

STRAINERS

THROUGH 2" SIZE METRAFLEX STYLE S OR MUELLER SERIES 11 - SCREWED, 400 PSI WATER 1/8" PERFORATED BRASS OR MONEL STRAINER CORE HAVING 40% OPEN FREE AREA; ON 2-1/2" AND LARGER STRAINERS METRAFLEX STYLE MI OR MUELLER SERIES NO. 751 FLANGED, 175 PSI WATER TO HAVE 5/32" PERFORATED BRASS OR MONEL STRAINER CORE HAVING 62% OPEN FREE AREA.

BRASS NIPPLES

USE BRASS PIPE NIPPLES WHERE CONNECTING TO IRON PIPING SYSTEM TO INSTALL MANUAL AIR VENTS, GAUGES, ETC.

GAGE COCK

CRANE NO. 744, ALL BRONZE.

AIR VENTS - MANUAL

PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS OF THE CHILLED WATER AND HEATING HOT WATER PIPING SYSTEM. MANUAL VALVE TO BE BALL VALVE.

INSTALLATION

- A. ALL VALVES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE FOR CLEANING, INSPECTION, MAINTENANCE, AND OPERATION.
- B. INSTALL VALVES WITH STEMS POINTED UP, IN VERTICAL POSITION WHERE POSSIBLE, BUT IN NO CASE WITH STEMS POINTED DOWNWARD FROM HORIZONTAL PLANE UNLESS SPECIFICALLY APPROVED.
- C. INSTALL SWING CHECK VALVES IN HORIZONTAL POSITION, UNLESS OTHERWISE SHOWN ON DRAWINGS, WITH HINGE PIN HORIZONTALLY PERPENDICULAR TO CENTERLINE OF PIPE. INSTALL FOR PROPER DIRECTION OF FLOW.
- D. PROVIDE ACCESS PANELS AT ALL CONCEALED VALVES.
- E. MAJOR CONTROL AND SECTIONALIZING VALVES THROUGHOUT BUILDING SHALL BE IDENTIFIED BY MEANS OF A BRASS VALVE TAG BRACKETED TO VALVE HANDLE. CONTRACTOR SHALL PREPARE SCHEDULE OF SUCH IDENTIFYING PLATES AND FRAME UNDER GLASS FOR INSTALLATION IN MAIN EQUIPMENT ROOM.

VII - VALVES AND FITTINGS FOR PLUMBING AND HVAC (CONT'D.)

- F. ALL WELDED PIPING TO BE WELDED BY CERTIFIED WELDERS SKILLED IN THE WORK TO BE DONE.
- G. NO PIPING OF DISSIMILAR METALS PLACED IN CONTACT OR IN CLOSE PROXIMITY WITH EACH OTHER. PROVIDE INSULATING UNIONS WHEREVER PIPING OF DISSIMILAR METALS IS JOINED.
- H. RUN ALL PIPING CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE, MAKING ALL NECESSARY OFFSETS, TURNS, ETC., NECESSARY TO CONCEAL PIPING FROM VIEW.
- I. PROVIDE ALL NECESSARY STEEL FRAME SUPPORTS, ANCHOR BOLTS, SLEEVES, ETC., REQUIRED FOR SAFE SUPPORT OF EQUIPMENT AND PIPING INSTALLED UNDER THIS CONTRACT. THE MECHANICAL CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE ACCURATE POSITION AND DIMENSIONS OF ALL FOUNDATIONS AND SUPPORT ITEMS.
- J. ALL VALVES, FITTINGS AND UNIONS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED TIGHTENING SEQUENCE. THIS INCLUDES PROPER TORQUING; BOLTS, NUTS AND WASHERS SELECTED FOR SERVICE CONDITIONS AND GASKET MATERIAL SELECTED FOR SERVICE CONDITIONS.

VIII - TEMPERATURE CONTROLS FOR HVAC

TEMPERATURE CONTROLS FOR HVAC SYSTEMS

- A. EACH AIR CONDITIONING SYSTEM SHALL BE CONTROLLED BY A LOW VOLTAGE PROGRAMMABLE WALL MOUNTED HEATING-COOLING THERMOSTAT WITH NIGHT SET-BACK AND FAN "ON-OFF" SWITCH, AS SHOWN ON THE DRAWINGS. THE SUPPLY FAN SHALL BE STARTED IN ACCORDANCE WITH THE TIME OF DAY SCHEDULE. ONCE STARTED THE MOTORIZED OUTSIDE AIR DAMPER SHALL OPEN TO THE PRESET BALANCE POSITION AND THE UNIT CONTROL SEQUENCES SHALL BE ENABLED.
- B. IN THE "OCCUPIED MODE" THE SPACE THERMOSTAT SHALL VARY THE LEAVING AIR TEMPERATURE OF THE UNIT BY OPERATING THE COOLING OR STAGES OF ELECTRIC HEAT TO MAINTAIN THE SPACE TEMPERATURE SET POINTS, 74 DEG. F COOLING(ADJ.) AND 70 DEG. F HEATING (ADJ.). THE UNIT FAN SHALL OPERATE AT ALL TIMES TO PROVIDE FULL OUTSIDE AIR TO THE SYSTEM.
- C. IN THE "UNOCCUPIED, OR NIGHT SET BACK, MODE" THE FAN SHALL CYCLE AROUND THE SPACE SET POINTS, 78 DEG. F COOLING (ADJ.)AND 60 DEG .F HEATING (ADJ.), THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE COOLING COMPRESSOR AND THE ELECTRIC HEATING COIL SHALL OPERATE TO MAINTAIN SET POINT LIMITS.
- D. SMOKE DETECTORS IN THE SUPPLY AIR AND RETURN AIR STREAMS SHALL SHUT OFF THE UNIT FAN, CLOSE THE O/A DAMPER AND NOTIFY THE FIRE ALARM SYSTEM OF THE ACTIVATION. FIRESTAT AND DETECTORS SHALL BE MANUALLY RESET TYPE AND SHALL INTERRUPT FAN SERVICE IF ACTIVATED.
- E. FURNISH AND INSTALL A 125 DEGREE F. FIRESTAT IN THE RETURN AIR INLET OF ALL FANS AND BLOWERS OVER 600 CFM.
- F. WHEN THE UNIT IS SHUT DOWN EITHER BY A STOP COMMAND FROM THE SCHEDULE, OR A SYSTEM SAFETY, THE UNIT SUPPLY FAN SHALL BE OFF, THE DX COOLING AND ELECTRIC HEATING SHALL BE OFF.



JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

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Date: SEPTEMBER 9, 2022
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CHECKED BY: DEV
DESIGNED BY: MDT

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Date: SEPTEMBER 9, 2022
Revised:
**FLOOR PLAN -
HVAC**

DRAWN BY: LAR
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DESIGNED BY: MDT

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Sheet 6 of 7



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

- A. DUCT SIZES SHOWN ARE FREE AREA SIZES, SEE SPECIFICATIONS FOR DUCT MATERIALS AND INSULATION REQUIRED. INSULATE DIFFUSER BACK PANS WITH 2" FOIL FACE FIBERGLASS INSULATION SEAL AND SECURE TO ENSURE VAPOR SEAL. SEE SHEET M2.10 FOR DETAILS.
- B. COORDINATE EXACT ROUTING OF ALL DUCTWORK SO AS NOT TO CONFLICT WITH OTHER TRADES. COORDINATE EXACT LOCATION OF ALL CEILING GRILLES WITH GRID, LIGHTS, ETC. ALL DUCTWORK SHALL BE ROUTED TIGHT TO STRUCTURE.
- C. CONTRACTOR IS CAUTIONED NOT TO FABRICATE OR INSTALL ANY DUCTWORK UNTIL DUCTWORK SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY ARCHITECT. REPRODUCTION OF CONTRACT DOCUMENTS NOT ACCEPTABLE.
- D. FLEX DUCT RUN OUTS TO SUPPLY AIR CEILING DIFFUSERS SHALL MATCH DIFFUSER NECK SIZES. MAXIMUM FLEX DUCT RUN OUTS SHALL BE LIMITED TO 5'-0". SUBSTITUTE RIGID METAL ROUND DUCT IN LIEU THEREOF.
- E. FLEXIBLE DUCT CONNECTIONS SHALL BE MECHANICALLY FASTENED AND SEALED TO PREVENT LEAKAGE.
- F. PROVIDE FIRE DAMPERS IN ALL RATED PARTITIONING WHERE DUCTWORK PENETRATES. SEE SHEET M2.10 FOR INSTALLATION DETAILS.
- G. SEE SHEET M2.10 FOR ALL DUCT BRANCH CONNECTION REQUIREMENTS.
- H. PROVIDE MINIMUM 3' CLEARANCE BETWEEN HVAC EQUIPMENT ACCESS AND PIPING, LIGHTS, AND DUCTWORK. COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION.

- (1) 12/12 DUCT UP TO EQUIPMENT PLATFORM.
- (2) 8/12 DUCT UP TO EQUIPMENT PLATFORM.
- (3) 8/8 DUCT UP TO EQUIPMENT PLATFORM.
- (4) TRANSFER GRILLE.
- (5) 16/16 DUCT DOWN FROM EQUIPMENT PLATFORM.
- (6) 12/12 DUCT UP FROM BELOW.
- (7) 8/12 DUCT UP FROM BELOW.
- (8) 8/8 DUCT UP FROM BELOW.
- (9) 16/16 DUCT DOWN.
- (10) SET CONDENSING UNIT ON SUPPORT FRAME AS MANUFACTURED BY BIG FOOT SYSTEM. FRAME SHALL BE SIZED ACCORDING TO UNIT SIZE AND WEIGHT. COORDINATE FINAL LOCATION WITH OTHER EXISTING DEVICES ON WALL.
- (11) PROVIDE RUNNING TRAP AND PROPERLY SLOPED CONDENSATE DRAIN LINE.
- (12) 2" DRAIN BELOW GRADE.



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

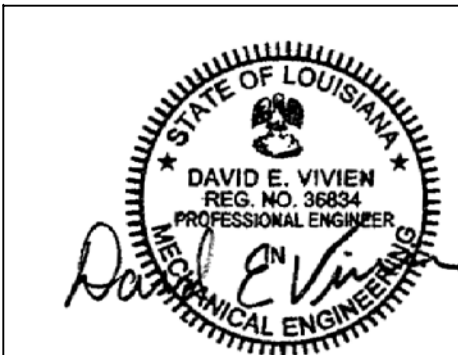
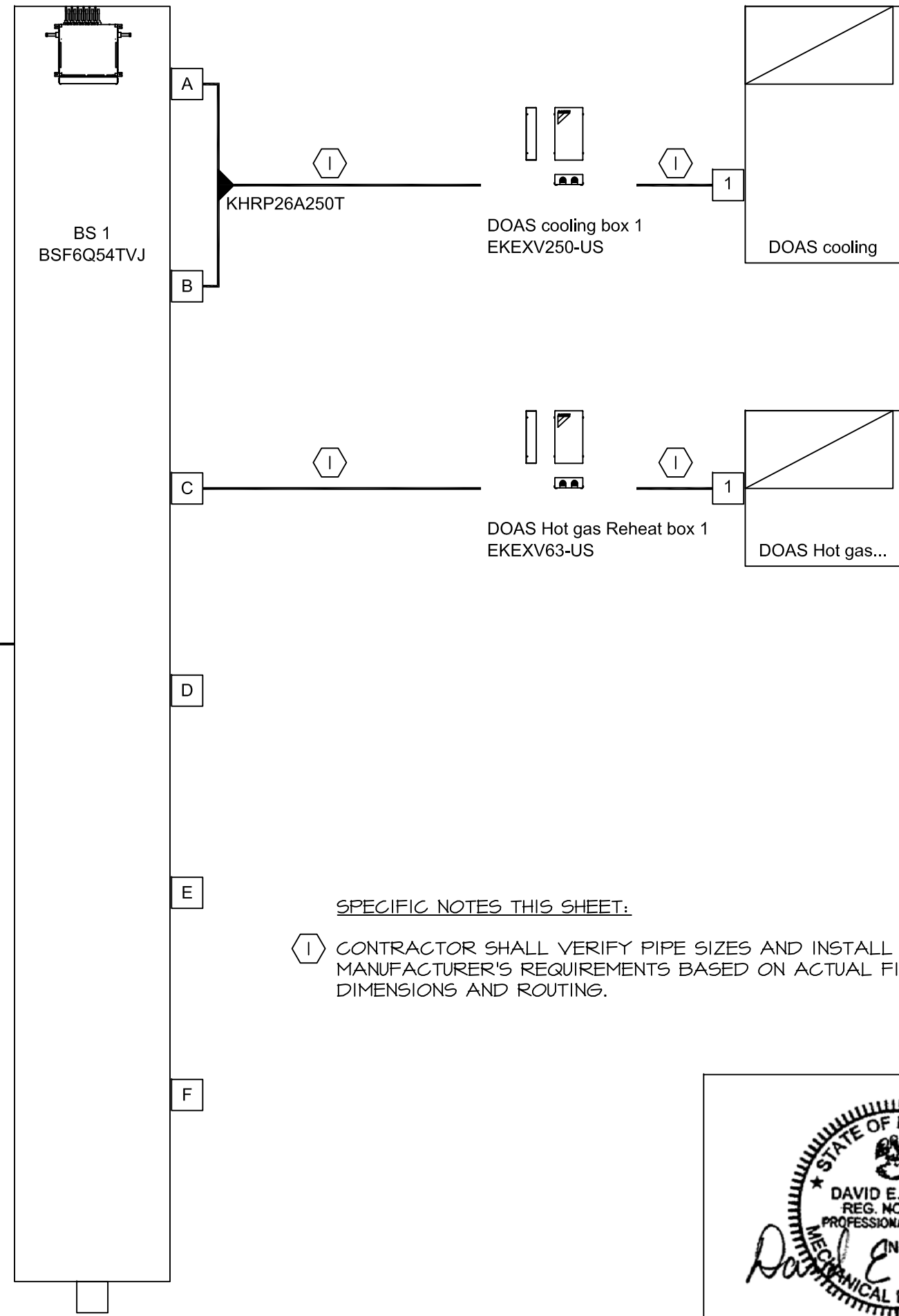
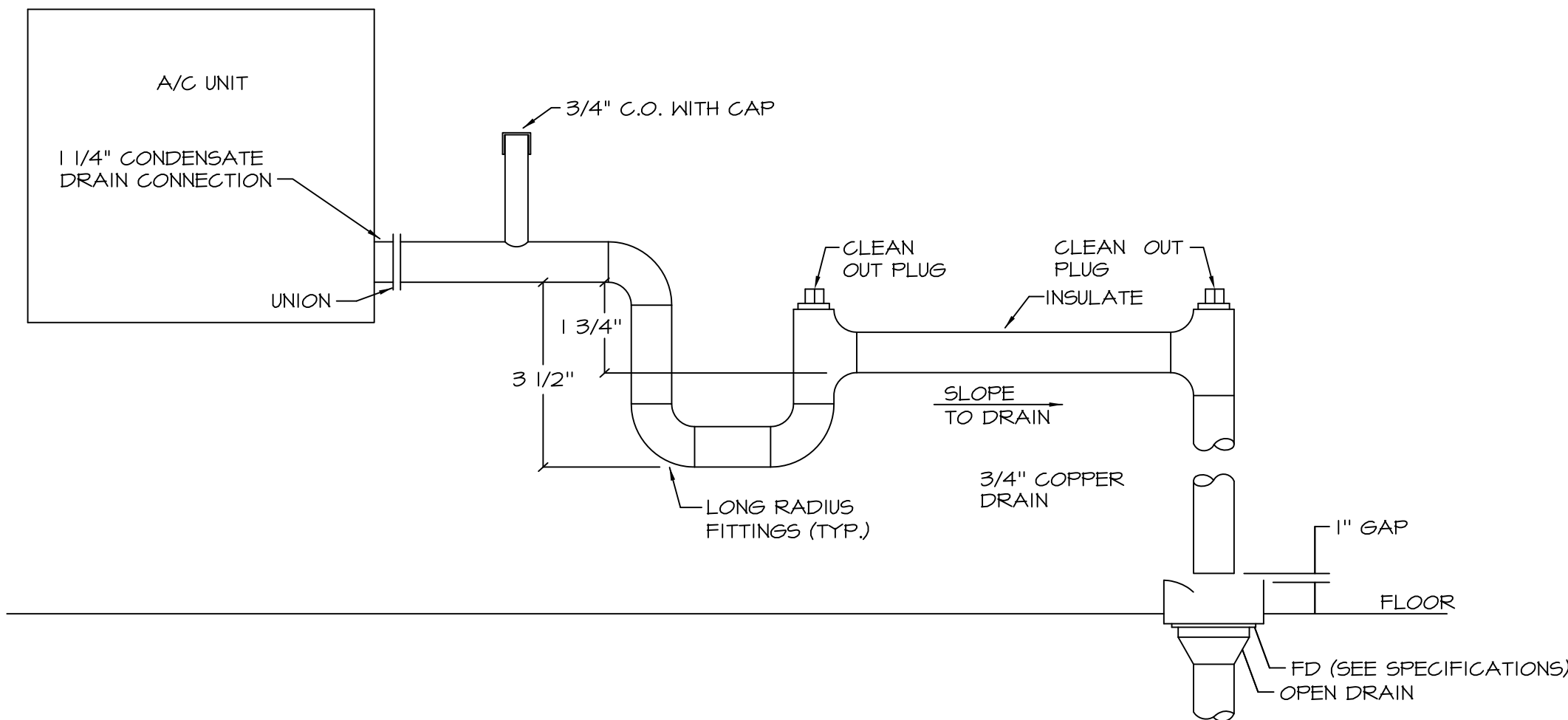
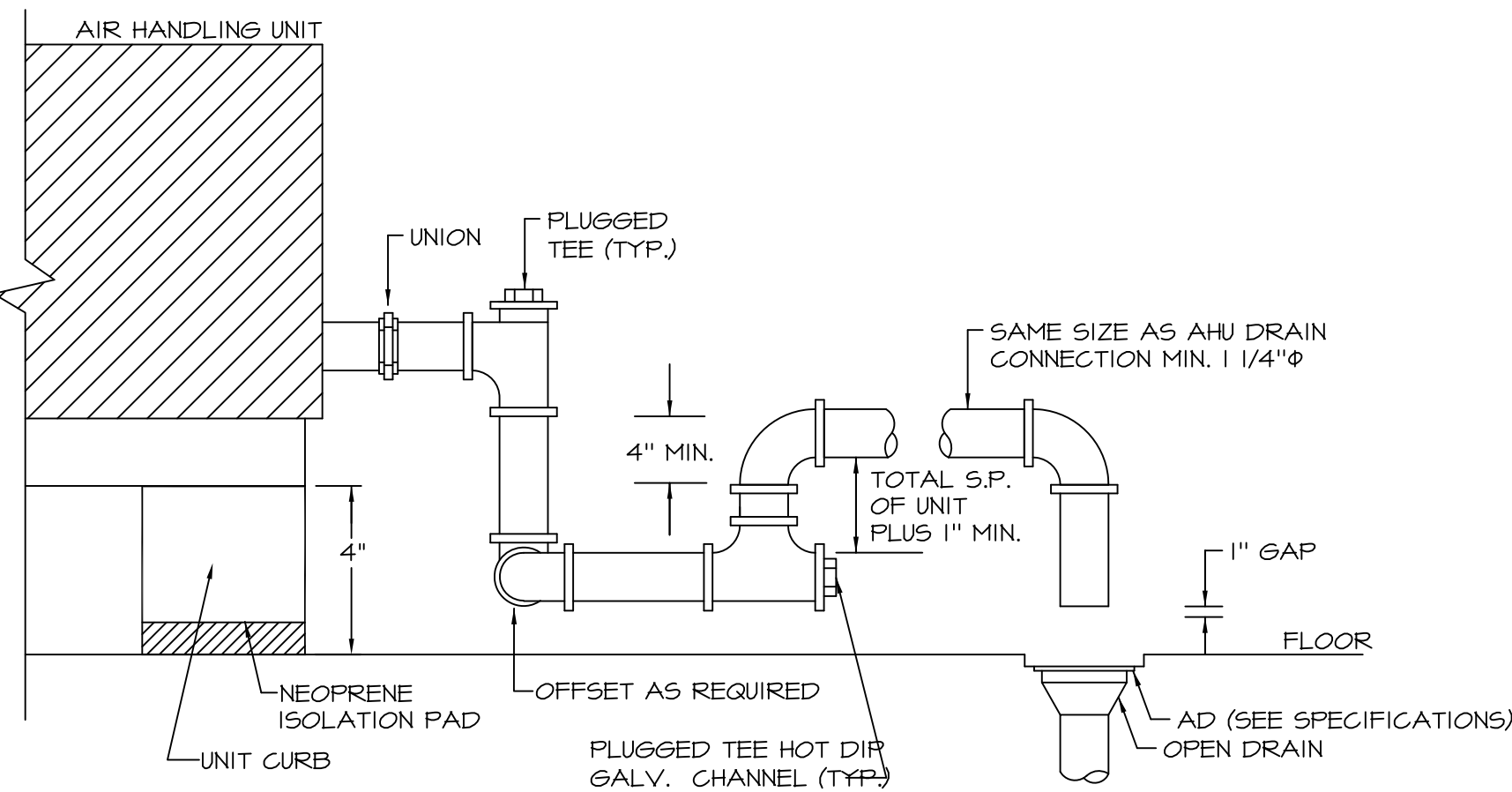
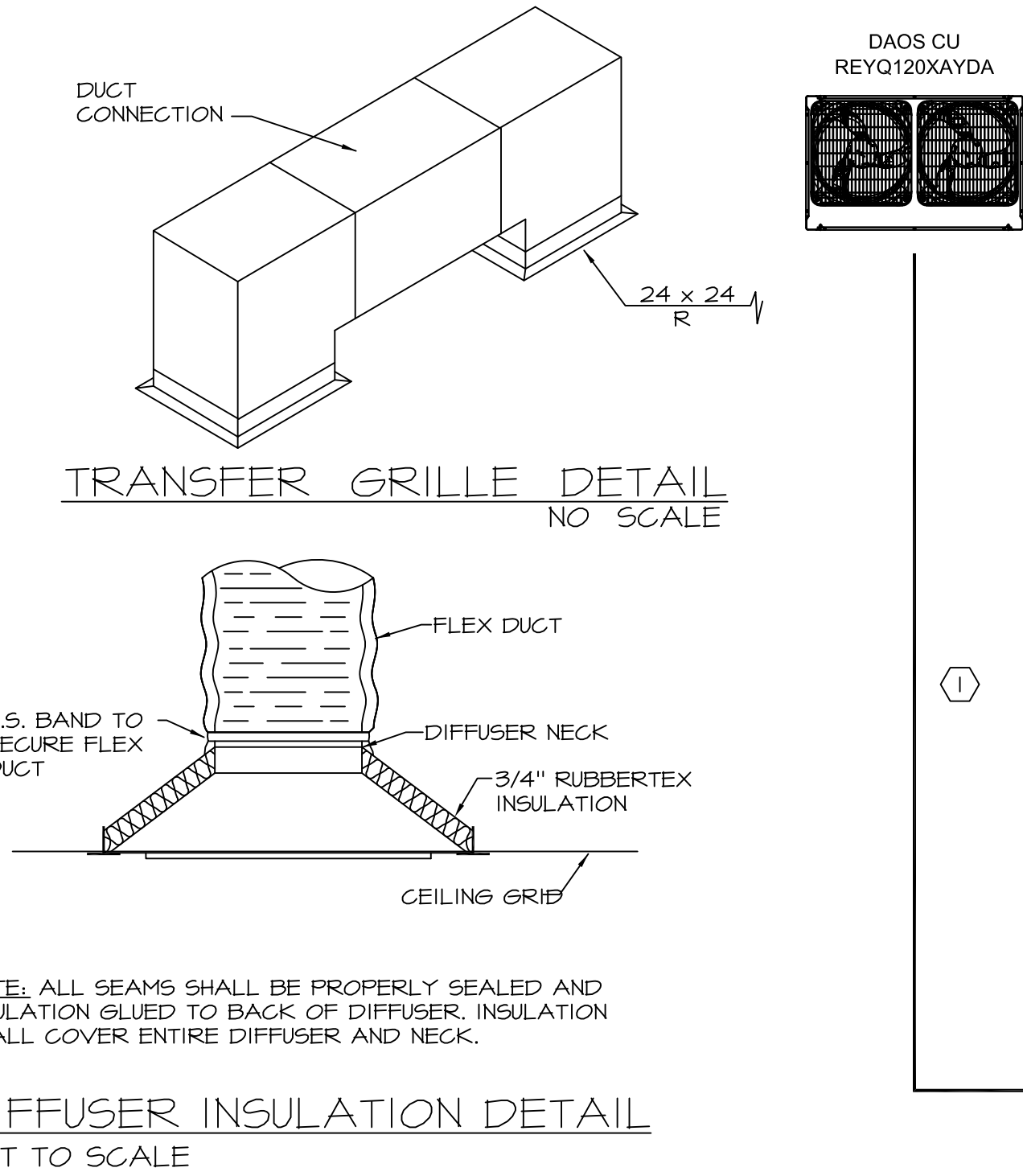
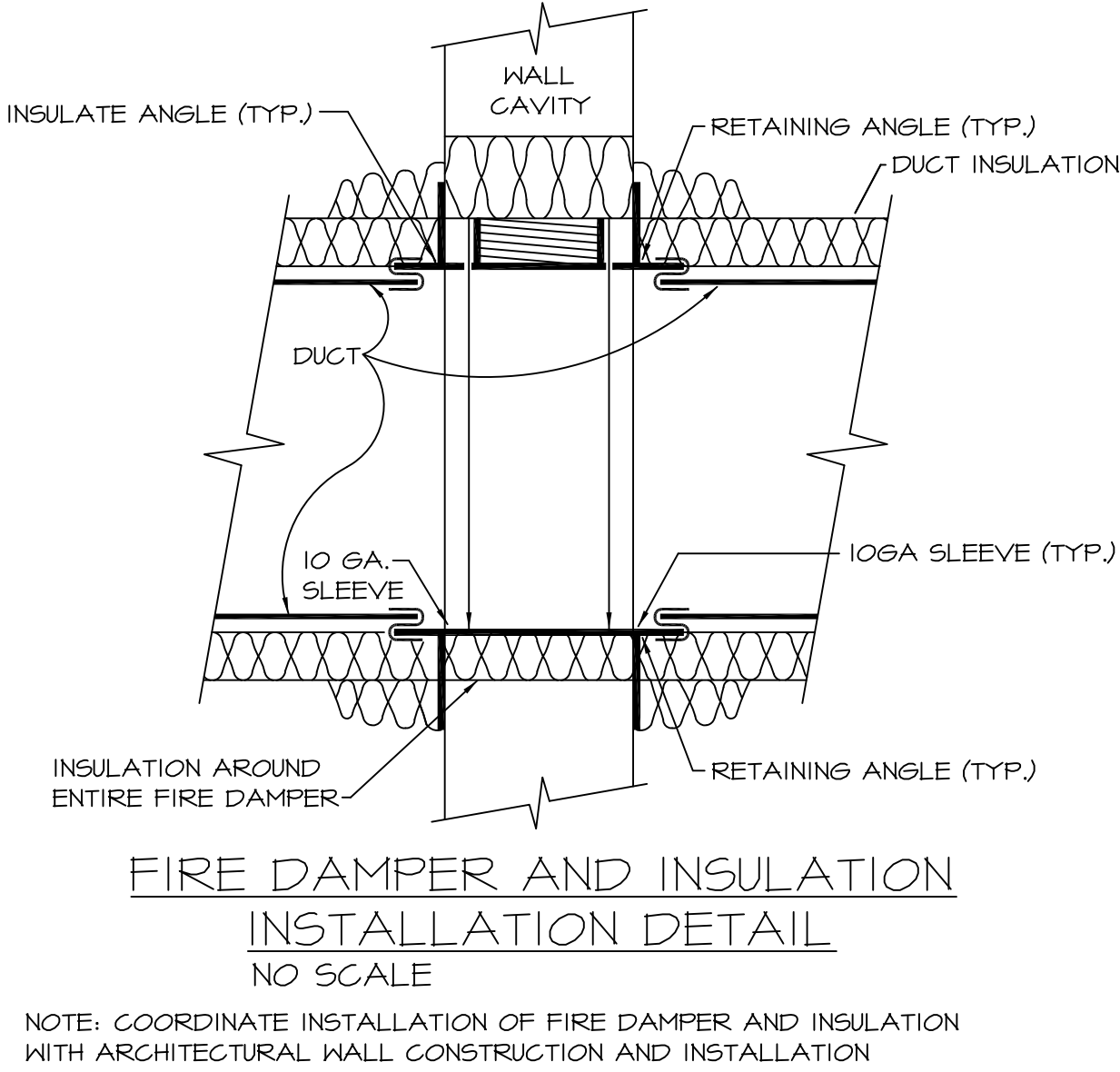
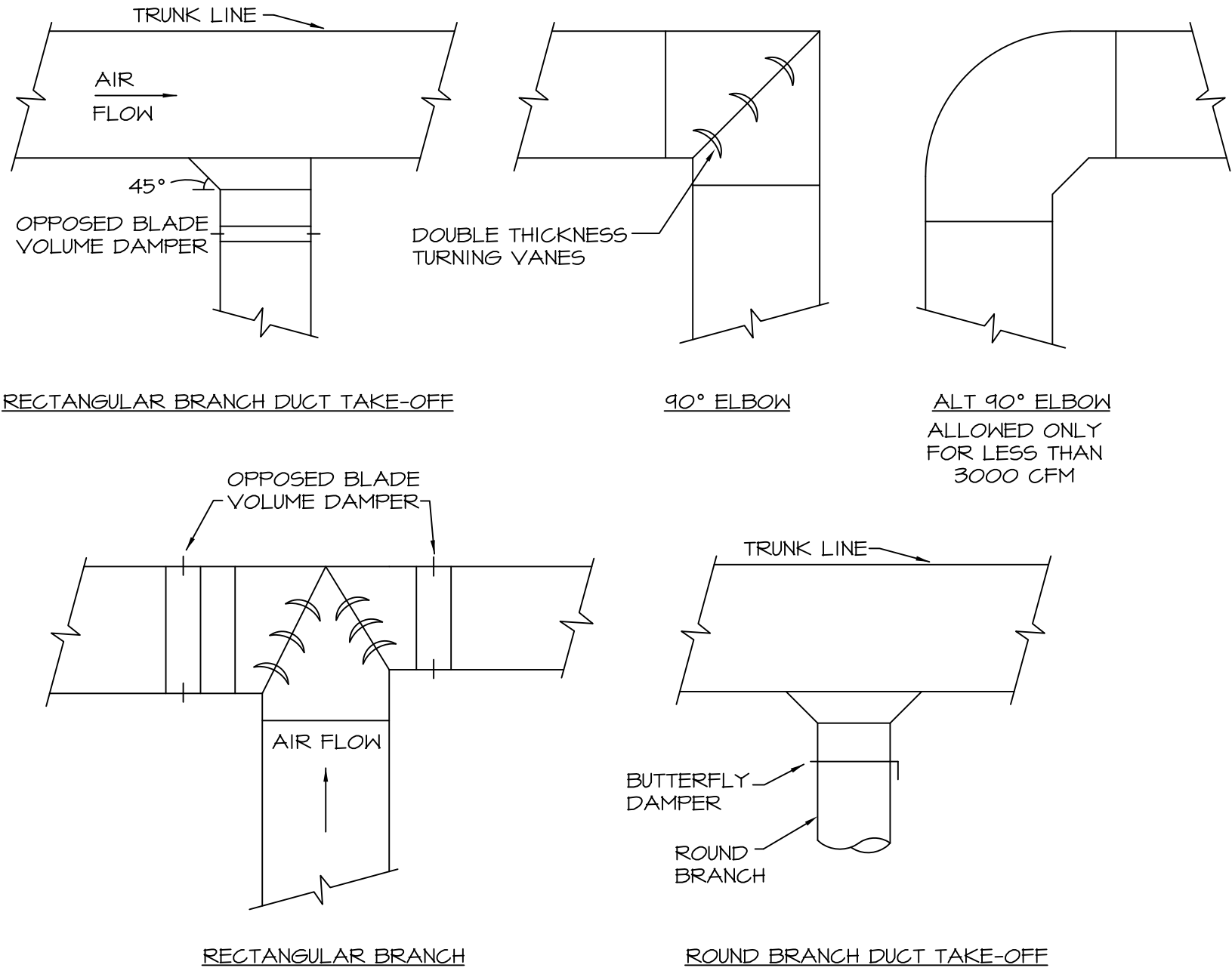


DIFFUSER	GRILLE	&	REGISTER	SCHEDULE
MARK	DESCRIPTION			
D	SUPPLY AIR CEILING DIFFUSER, ALL ALUMINUM CONSTRUCTION; 12X12 SQUARE PLAQUE FACE; ROUND NECK; LAY-IN, BAKED OFF-WHITE FINISH; NECK SIZE NOTED ON DRAWINGS.			
	PRICE MODEL: ASPD			
DI	SAME AS MARK "D" EXCEPT 12X12 SURFACE MOUNT.			
	PRICE MODEL: ASPD			
L	6" DEEP EXTRUDED MIAMI-DADE COUNTY APPROVED HIND DRIVEN RAIN LOUVER, ALL ALUMINUM LOUVER WITH DRAINABLE BLADES; SLEEVED BOX FRAME CONSTRUCTION; BIRD SCREEN; CLEAR ANODIZED FINISH. SIZE NOTED ON DRAWINGS.			
	GREENHECK MODEL: EHH-601D			
R	EGG CRATE RETURN GRILLE; ALL ALUMINUM CONSTRUCTION ; 24X24 LAY-IN; BAKED OFF-WHITE FINISH.			
	PRICE MODEL: 80			
RI	SAME AS MARK "R" EXCEPT 12X12 SURFACE MOUNT.			
	PRICE MODEL: 80			

MECHANICAL		LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CFM	CUBIC FEET PER MINUTE	RAS	RETURN AIR GRILLE
CLS.	CEILING	(TYP)	TYPICAL
CONN.	CONNECTION	VD	VOLUME DAMPER
DN	DOWN	VTR	VENT THRU ROOF
FID	FIRE DAMPER	⊕	TEMPERATURE SENSOR
O/A	OUTSIDE AIR	⊕	HUMIDITY SENSOR
RA	RETURN AIR		1 1/2 HOUR UL 555 FIRE DAMPER
T	AIR CHAMBER (10" HIGH PIPE)		FLEX DUCT

100%		OUTSIDE				AIR				ROOF				TOP			UNIT				WITH				ENERGY				RECOVERY				WHEEL		SCHEDULE				
MARK	SERVICE	LOCATION	O/A CFM	EXT. S.P. IN W.G.	TOTAL COOLING BTU/H	SENSIBLE COOLING BTU/H	COOLING		COIL		HEATING		COIL		SUPPLY FAN MOTOR DATA			ENERGY				RECOVERY				WHEEL				DATA				CONDENSING UNIT ELECTRICAL DATA			DESCRIPTION		
							ENT. AIR °F	LVG. AIR °F	ENT. AIR °F	LVG. AIR °F	MAIN COIL HEATING BTU/H	REHEAT COIL HEATING BTU/H	MCA	VOLTS	PHASE	CFM	EXT. S.P. IN W.G.	WATTS	VOLTS	PHASE	EXHAUST		FAN		DATA	HXR DATA (SUMMER)		HXR DATA (WINTER)		OUTSIDE AIR	EXHAUST AIR	VOLTS	PHASE	TOTAL MCA					
																					DB	WB	DB	WB		ENT.	LVG.	ENT.	LVG.						ENT.	LVG.		ENT.	LVG.
ERV-1	RESTROOMS / SHOWERS / LAUNDRY ROOM	EQUIPMENT PLATFORM (INDOOR)	1630	1	41,900	49,800	82.9	72.1	55	54	52.2	80	49,600	32,250	0.6	208	1	1475	1	250	460	3	45	82.9	75	90.1	25	52.2	70	36	480	3	21.1	NOVA SERIES WITH DAIKIN VRV INTEGRATION PACKAGE, VARIABLE AIR VOLUME, UNIT TO HAVE INTEGRAL ENERGY RECOVERY SECTION INCLUDING EXHAUST FAN, HEAT WHEEL AND BYPASS DAMPERS AND HOT GAS REHEAT. PROVIDE VFD FOR UNIT.					
																																		DAIKIN C2QIN*					

- * NOTES:
- ERV PACKAGE MUST INCLUDE THE FOLLOWING ITEMS:
 - CONDENSING UNIT, DAIKIN MODEL REYQ12XAYDA
 - BRANCH SELECTOR UNIT, DAIKIN MODEL BSF6Q54TVJ
 - AHU INTEGRATION VALVE KIT, DAIKIN MODEL EKEXV63-US
 - AHU INTEGRATION VALVE KIT, DAIKIN MODEL EKEXV250-US
 - AHU INTEGRATION KIT Z-CONTROL BOXES, DAIKIN MODEL EKEGMCBAV3-US, 208V 1 PH, MCA 0.3
 - NAVIGATION REMOTE CONTROLLERS, DAIKIN MODEL BRJCT3
 - BRANCH SELECTOR CLOSED PIPE KITS, DAIKIN MODEL KHFP26100C
 - BRANCH SELECTOR 2-PORTS JOINT KIT, DAIKIN MODEL KHRP26250T



SEPTEMBER 9, 2022

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MECHANICAL - SCHEDULES AND DETAILS



JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

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N-Y Proj No: 21008.01
Date: SEPTEMBER 9, 2022
Revised:
MECHANICAL -
SCHD. & DETL.

DRAWN BY: LAR
CHECKED BY: DEV
DESIGNED BY: MDT

M-2.0

Sheet 7 of 7



JEFFERSON PARISH SHERIFF'S OFFICE
EMERGENCY WASHROOM BLDG.
JEFFERSON PARISH, LOUISIANA

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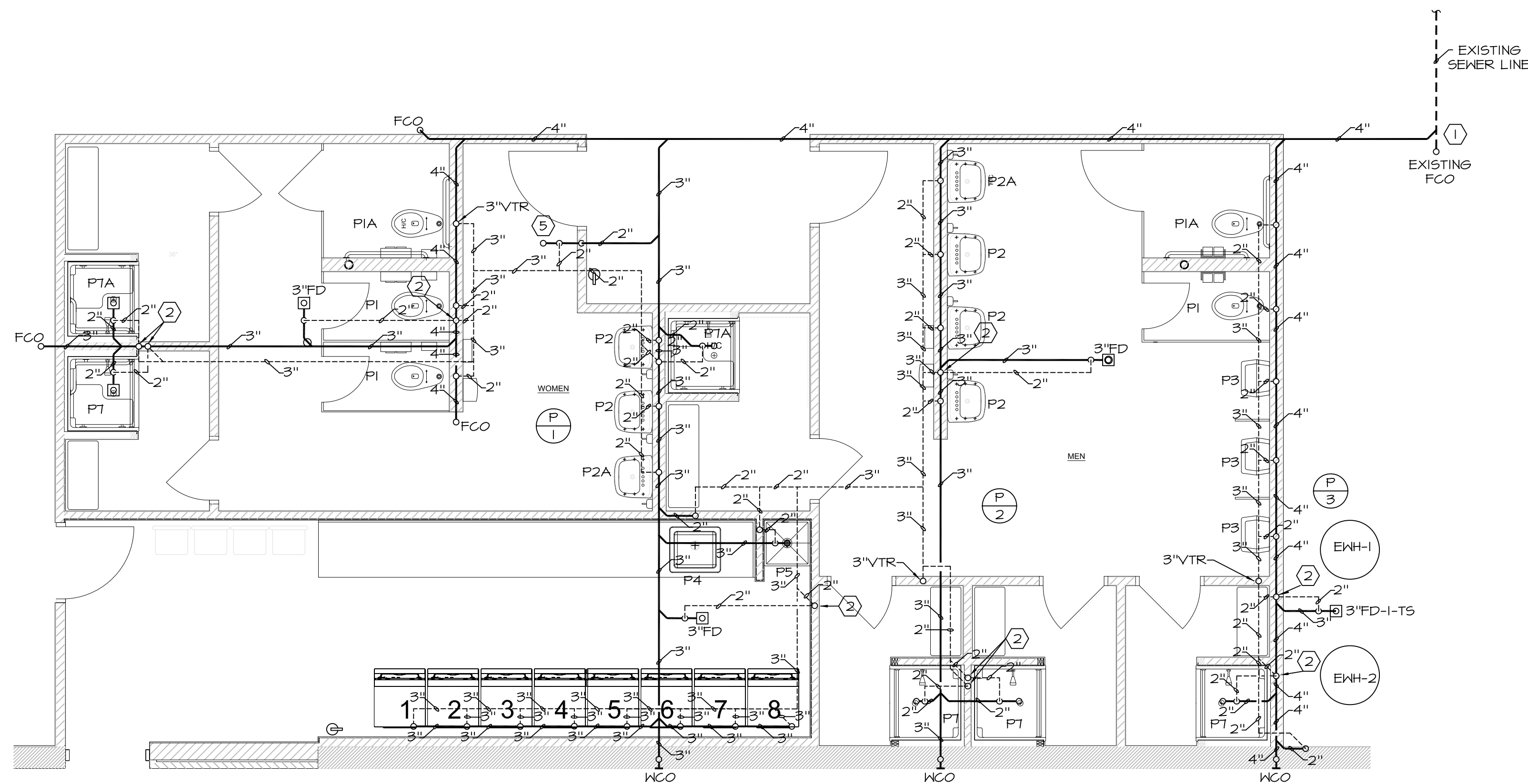
N-Y Proj No: 21008.01
Date: JUNE 9, 2023

FLOOR PLAN - PLUMBING

DRAWN BY: LAR
CHECKED BY: DEV
DESIGNED BY: MDT

P-1.0

Sheet 1 of 3



FLOOR PLAN - PLUMBING

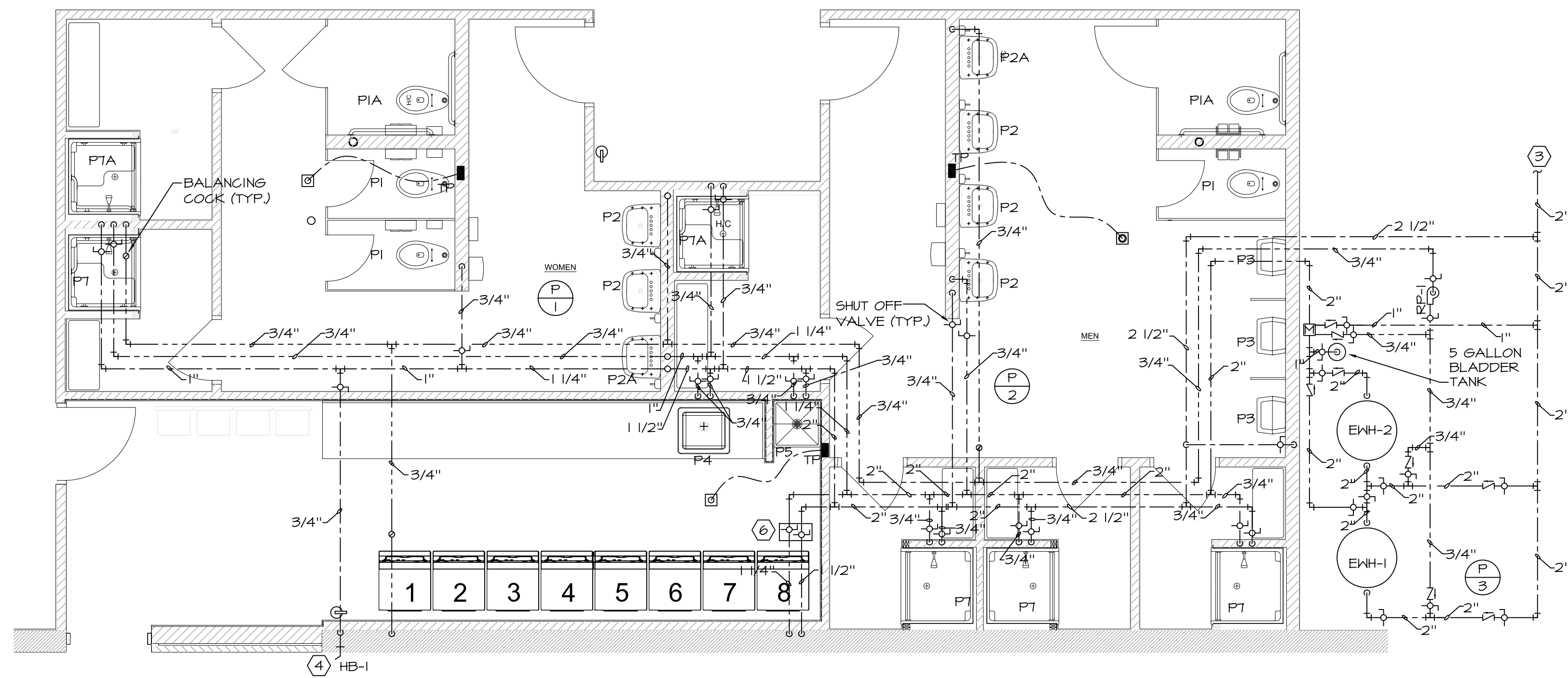
SCALE: 1/4"=1'-0"

- GENERAL NOTES THIS SHEET:

- A. ALL HW, CW AND VENT PIPING SHALL BE RUN ABOVE CEILING UNLESS NOTED OTHERWISE. ROUTE ALL PIPING TIGHT TO STRUCTURE. OFFSET UNDER BEAMS AS REQUIRED. SEE SPECIFICATIONS FOR PIPING INSULATION REQUIREMENTS.
- B. ALL WASTE PIPING SHALL BE RUN BELOW SLAB UNLESS NOTED OTHERWISE.
- C. SEE PLUMBING RISERS FOR PIPE SIZES AND SHUT OFF VALVES NOT SHOWN ON PLANS.
- D. COORDINATE EXACT ROUTING OF ALL PIPING SO AS NOT TO CONFLICT WITH OTHER TRADES INCLUDING DUCTWORK AND ELECTRICAL. ROUTE ALL PIPING TIGHT TO STRUCTURE. PROVIDE OFFSETS AROUND BEAMS AS NECESSARY.
- E. HANG ALL UNDERGROUND PIPING FROM SLAB. SEE DETAIL ON SHEET P-2.0.
- F. EXISTING FULLY AUTOMATIC SPRINKLER SYSTEM SHALL BE MODIFIED TO SERVICE NEW WASHROOM AND BATHROOM AREAS. CONTRACTOR SHALL NOT FABRICATE OR INSTALL MODIFIED SPRINKLER SYSTEM UNTIL APPROVAL OF SHOP DRAWING HAS BEEN OBTAINED BY THE ENGINEER AND STATE FIRE MARSHAL. CONTRACTOR SHALL PROVIDE A SYSTEM THAT MEETS ALL REQUIREMENTS OF NFPA 101, 13, 14, 20 AND 24. SEE SPECIFICATIONS SECTION 211313.
- G. PROVIDE ADDITIONAL HEADS ABOVE EQUIPMENT PLATFORM AS REQUIRED TO PROVIDE PROPER COVERAGE AROUND DUCTWORK.

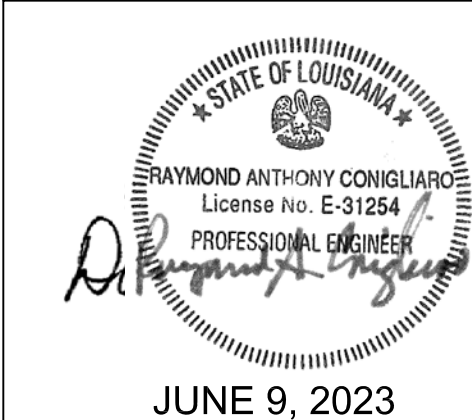
SPECIFIC NOTES THIS SHEET:

- ① CONNECT NEW SEWER TO EXISTING SEWER LINE. CONTRACTOR SHALL CONFIRM EXISTING SEWER LINE IS CLEAR OF ANY OBSTRUCTIONS.
- ② 2" UP FROM BELOW.
- ③ LOCATE CLOSEST 2 1/2" OR GREATER EXISTING DOMESTIC WATER LINE AND TIE-IN NEW 2 1/2" COLD WATER LINE TO SERVICE NEW AREA.
- ④ REPLACE EXISTING HOSE BIBB AND RE-PIPING WITH NEW HOSE BIBB.
- ⑤ 2" DRAIN DOWN FROM EQUIPMENT PLATFORM. SEE SHEET M-1.0.
- ⑥ HOT AND COLD WATER SHUT OFF VALVE WITH ACCESS PANEL.



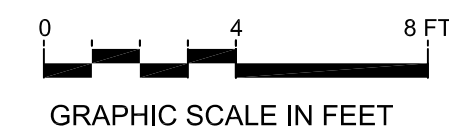
FLOOR PLAN - PLUMBING

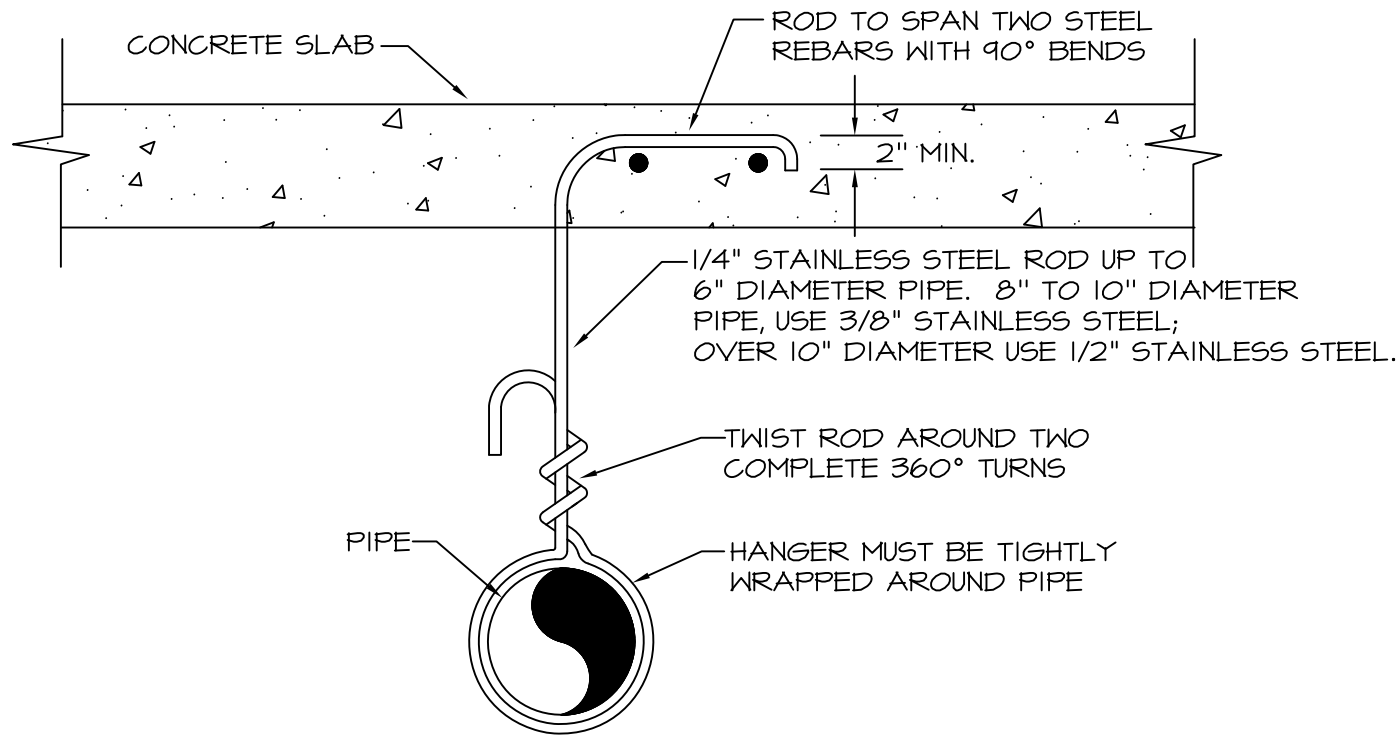
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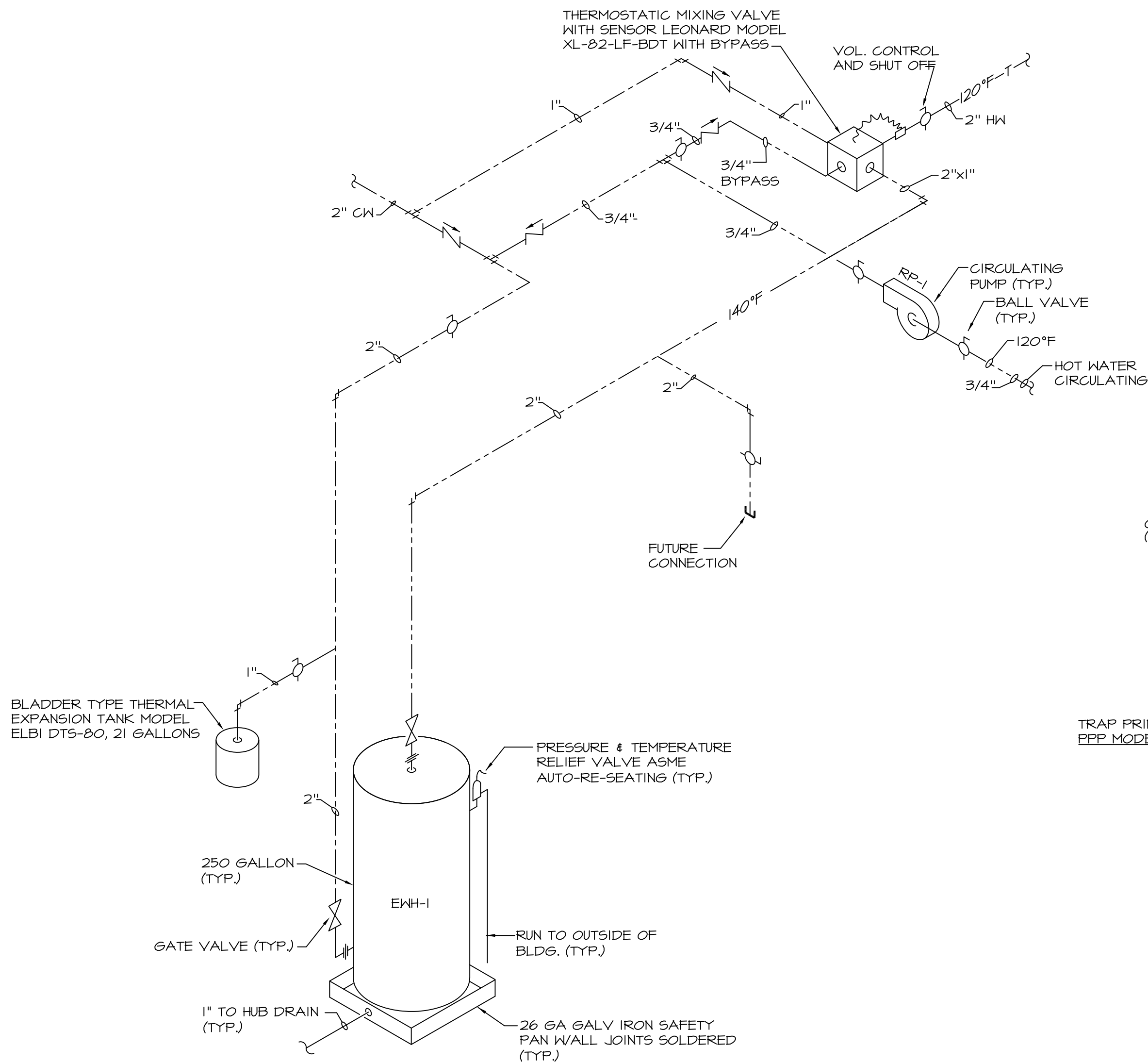
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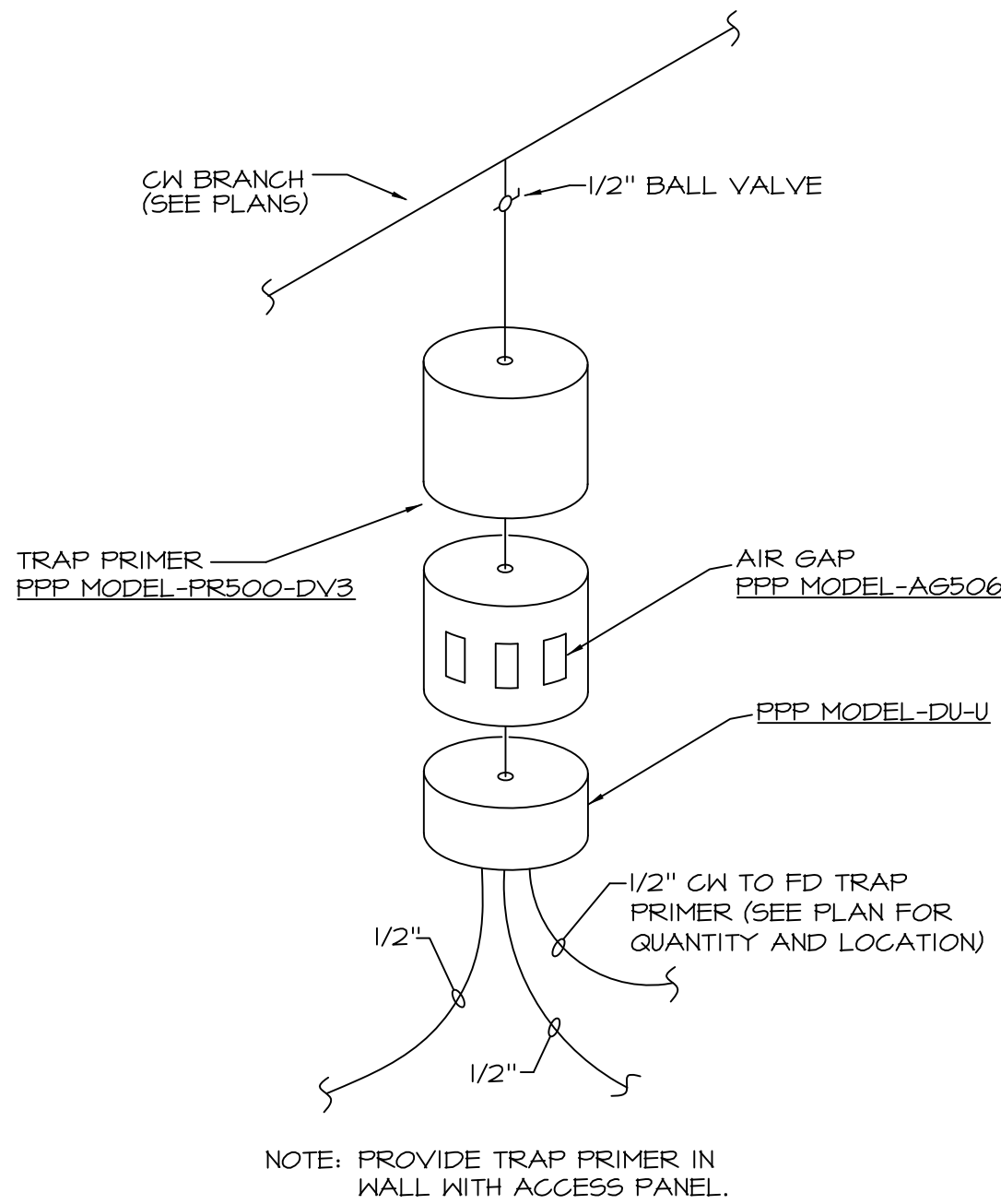


NOTE: HANGER SPACING SHALL NOT EXCEED 4' AND A HANGER SHALL BE AT EVERY FITTING.

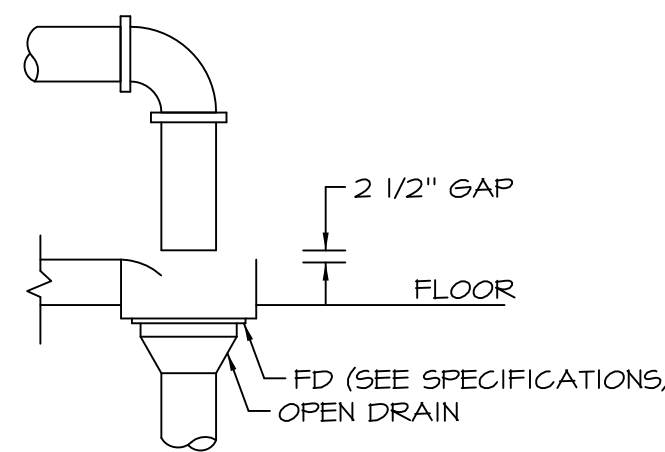
PIPE HANGER UNDER SLAB DETAIL
NOT TO SCALE



ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



TYPICAL TRAP PRIMER PIPING DETAIL
NO SCALE



TYPICAL INDIRECT WASTE/DRAIN
TERMINATION DETAIL
NOT TO SCALE

ELECTRIC			WATER			HEATER			SCHEDULE
MARK	LOCATION	GAL.	RECOVERY 100°F RISE	KW	VOLTS	PH	AMPS	PIPE SIZE	DESCRIPTION
EWH-1	WAREHOUSE AREA	250	100	126	480	3	152	2"	HIGH EFFICIENCY CONDENSING WATER HEATER. SEE SPECIFICATION SECTION 22 0400 PART 2.10 FOR FULL REQUIREMENTS. DURANATT ELECTRIC MODEL: 65QL250A-VE

PLUMBING			PUMP			SCHEDULE		
MARK	SERVICE	GPM	FT. HEAD H ₂ O	ELECTRICAL WATTS	VOLTS	PH.	RPM	DESCRIPTION
PPM-1	HOT WATER CIR. EWH-1	5	10	75	120	1	-	IN LINE CIRCULATING PUMP. ALL BRONZE WITH AQUASTAT AND TIMER. B & G NRF-22U

PLUMBING				LEGEND			
SYMBOL	DESCRIPTION			SYMBOL	DESCRIPTION		
----	COLD WATER			HB	HOSE BIBB		
----	HOT WATER			HW	HOT WATER		
----	HOT WATER CIRCULATING			RD	ROOF DRAIN		
----	VENT			TD	TRENCH DRAIN		
— SS —	SANITARY SEWER			TP	TRAP PRIMER		
— SD —	STORM DRAIN			(TYP)	TYPICAL		
— ED —	EMERGENCY DRAIN			— —	BALL VALVE		
— F —	FIREWATER			—(P)—	PLUMBING RISER DIAGRAM		
CLG.	CEILING			— X—	GATE VALVE		
CO	CLEAN OUT			— Z—	CHECK VALVE		
CONN.	CONNECTION			— V—	VALVE IN VERTICAL RISE		
GW	COLD WATER			— I —	UNION		
DF	DRINKING FOUNTAIN			— T —	AIR CHAMBER (10" HIGH PIPE)		
DN	DOWN			FCO	FLOOR CLEAN OUT		
FD	FLOOR DRAIN			TS	TRAP SEAL		
				M	THERMOSTATIC MIXING VALVE		

PLUMBING FIXTURE SCHEDULE						DESCRIPTION					
MARK	FIXTURE	WASTE	H.W.	C.W.		DESCRIPTION					
P1	WC	3"	-	1"		FLOOR MOUNTED WATER CLOSET WITH ELONGATED BOWL AND MANUAL FLUSH VALVE.					
PIA	WC	3"	-	1"		FLOOR MOUNTED WATER CLOSET WITH ELONGATED BOWL AND MANUAL FLUSH VALVE; ADA COMPLIANT.					
P2	LAV	1 1/2"	1/2"	1/2"		WALL MOUNTED LAVATORY WITH MANUAL FAUCET.					
P2A	LAV	1 1/2"	1/2"	1/2"		WALL MOUNTED LAVATORY WITH MANUAL FAUCET; ADA COMPLIANT.					
P3	UR	2"	-	3/4"		WALL HUNG URINAL WITH MANUAL FLUSH VALVE; ADA COMPLIANT.					
P4	SINK	1 1/2"	1/2"	1/2"		S.S. DROP-IN, UNDERMOUNT TYPE SINGLE COMPARTMENT SINK WITH MANUAL FAUCET.					
P5	SS	3"	1/2"	1/2"		ONE-PIECE MOLDED, HIGH IMPACT RESISTANT FIBERGLASS MOP BASIN.					
PT	SHOWER	2"	3/4"	3/4"		SHOWER					
PTA	SHOWER	2"	3/4"	3/4"		ADA COMPLIANT SHOWER					
TP	TRAP PRIMER	-	-	1/2"		SEE DETAIL.					
FD	FLOOR DRAIN	3"	-	-		CAST IRON FLOOR DRAIN WITH SQUARE TOP.					
FD-I	FLOOR DRAIN	3"	-	-		CAST IRON FLOOR DRAIN WITH RECESSED ROUND TOP.					
HB-I	HOSE BIBB	-	-	3/4"		NON-FREEZE EXTERIOR HYDRANT WITH VACUUM BREAKER.					
TS	TRAP SEAL	-	-	-		SEE SPECIFICATIONS FOR REQUIREMENTS.					
WM	WASHER BOX	1 1/2"	3/4"	3/4"		WASHING MACHINE BOX WITH DRAIN, HOT AND COLD WATER CONNECTIONS AND VALVES.					

NOTE: SEE SPECIFICATIONS FOR COMPLETE FIXTURE DESCRIPTION.

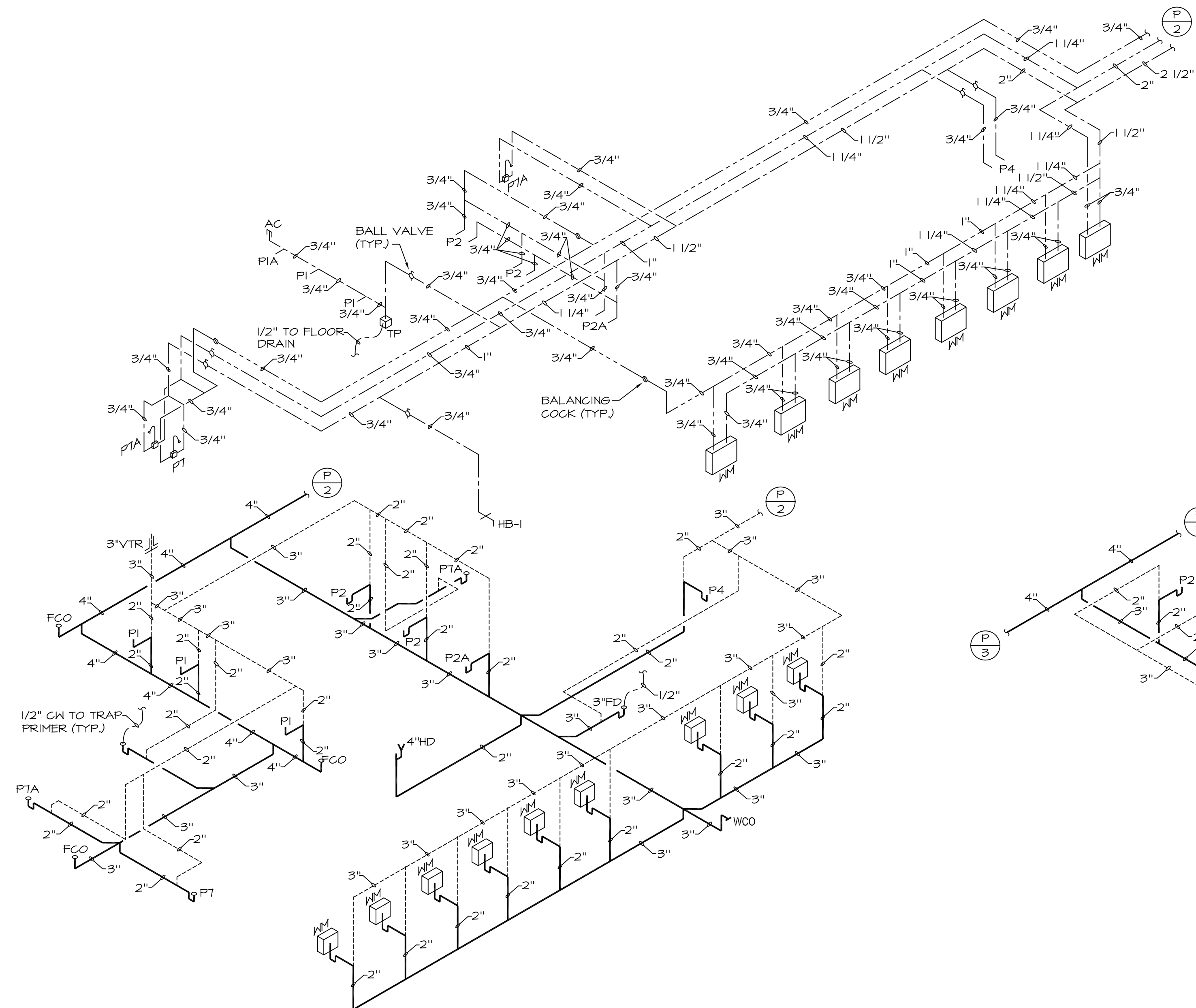
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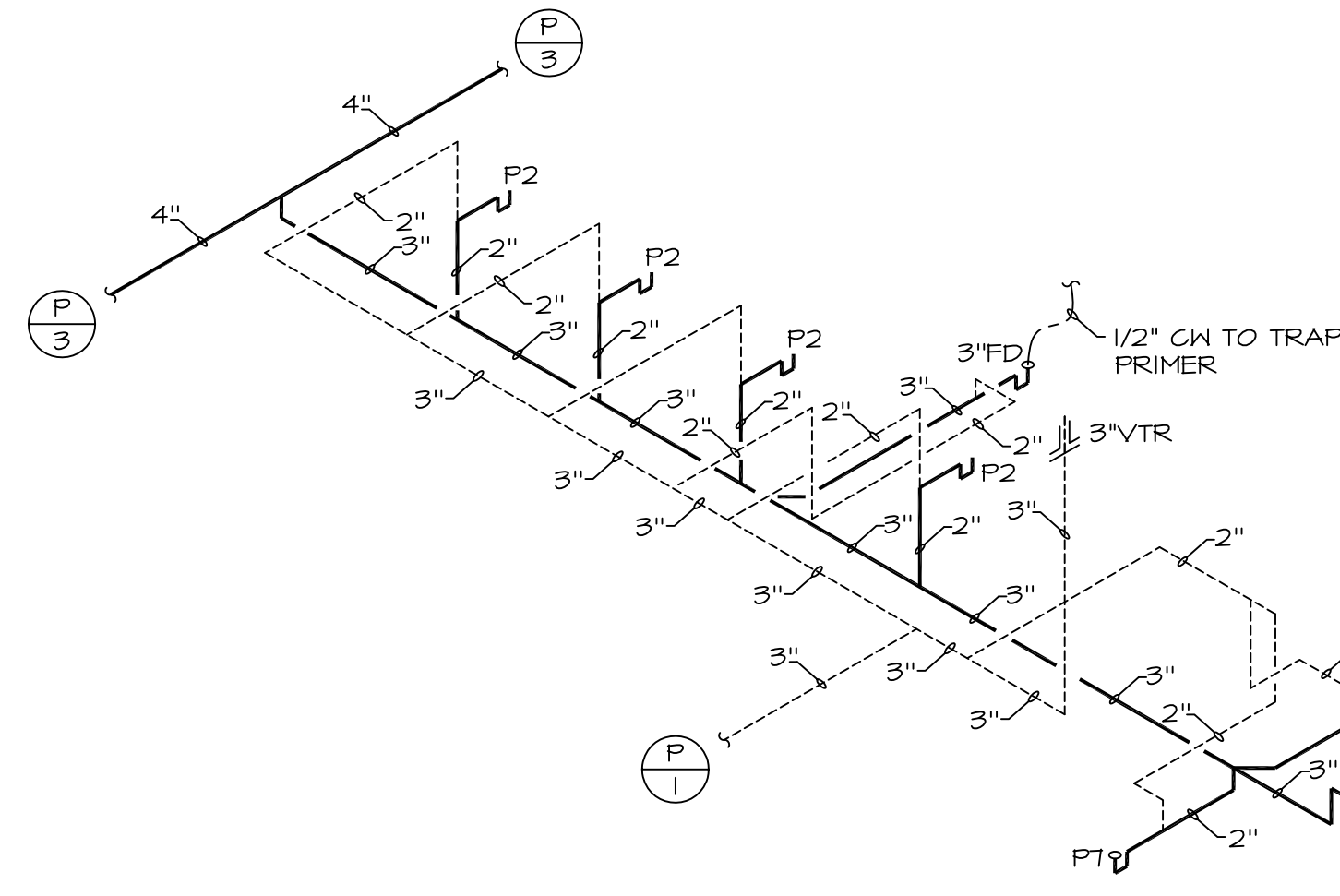
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RISERS

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DESIGNED BY: MDT

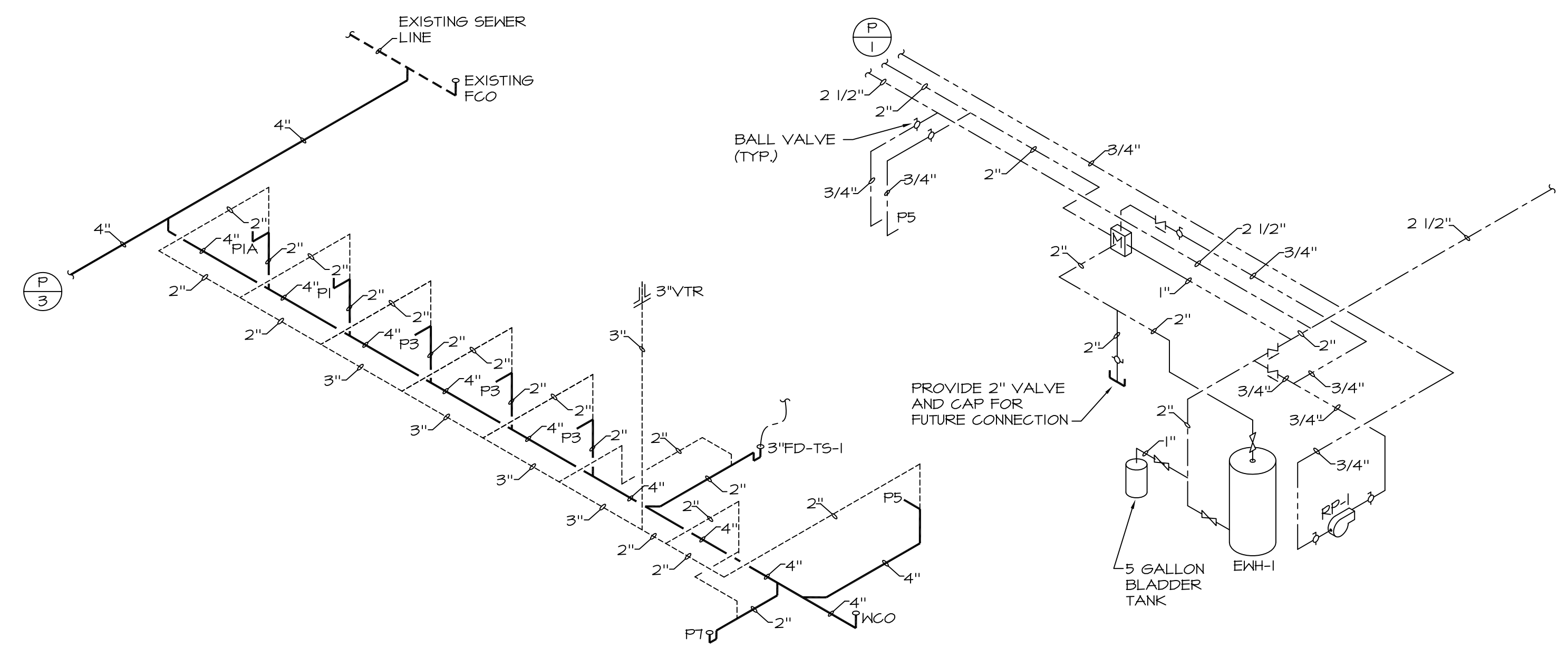
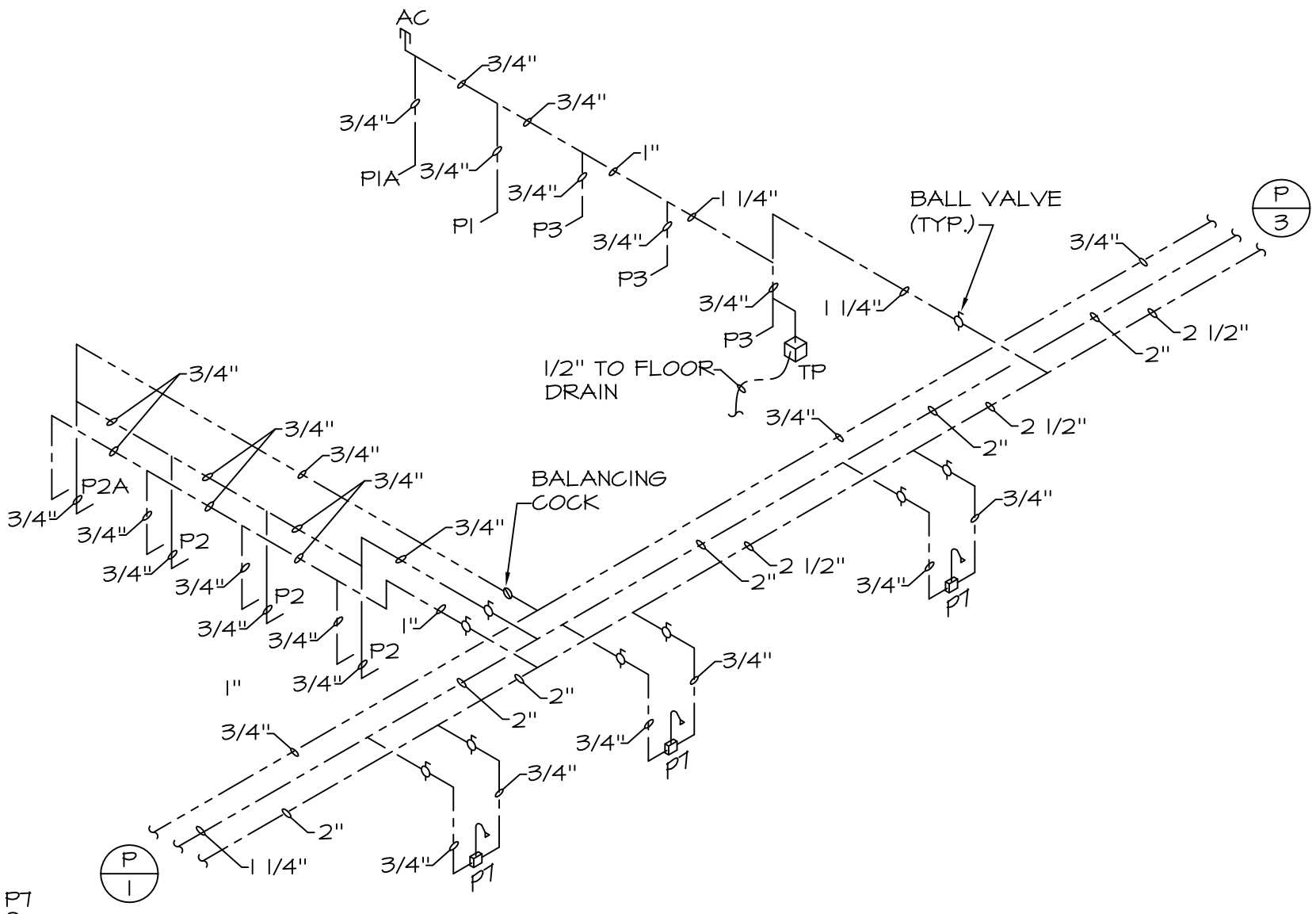
P-3.0
Sheet 3 of 3



WASTE AND VENT PIPING **P 1** HOT AND COLD WATER PIPING



WASTE AND VENT PIPING **P 2** HOT AND COLD WATER PIPING



WASTE AND VENT PIPING **P 3** HOT AND COLD WATER PIPING

STATE OF LOUISIANA
DAVID E. VIVIEN
REG. NO. 56624
PROFESSIONAL ENGINEER

SEPTEMBER 9, 2022

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