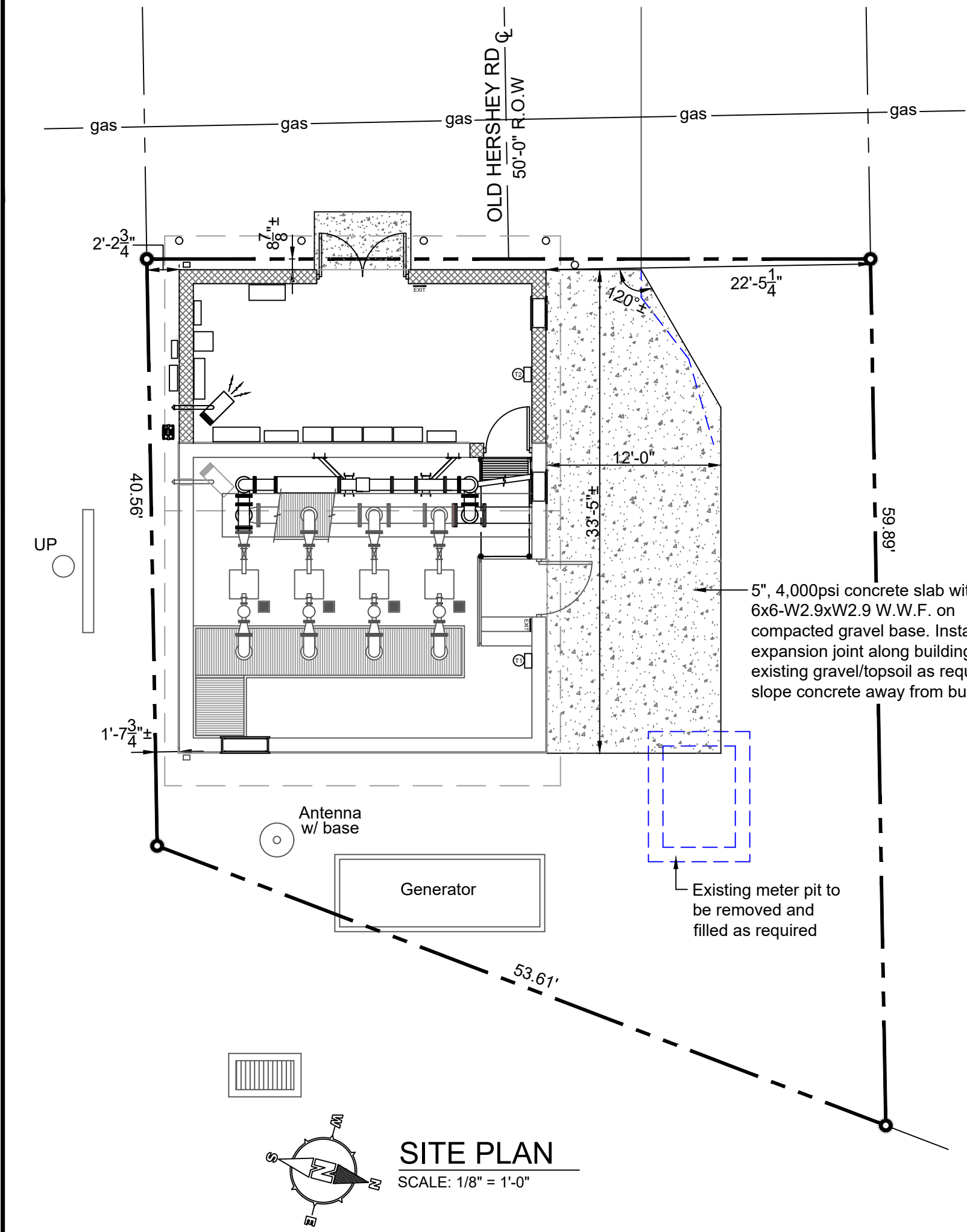


SUMMIT TOWNSHIP CONSTRUCTION DOCUMENTS: BIU PLAN FILE CN25-223

NOTE: THESE PLANS HAVE BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT.



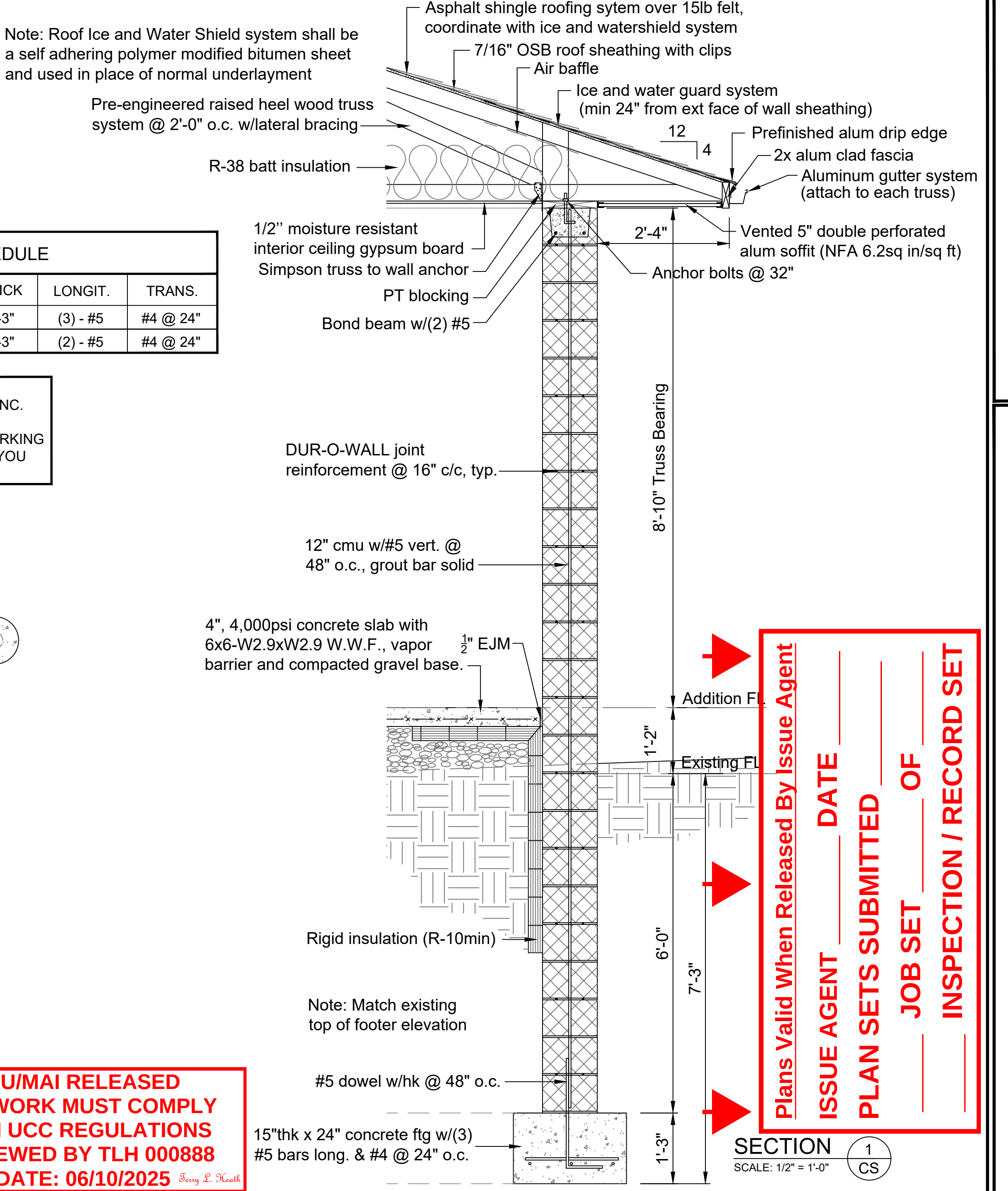
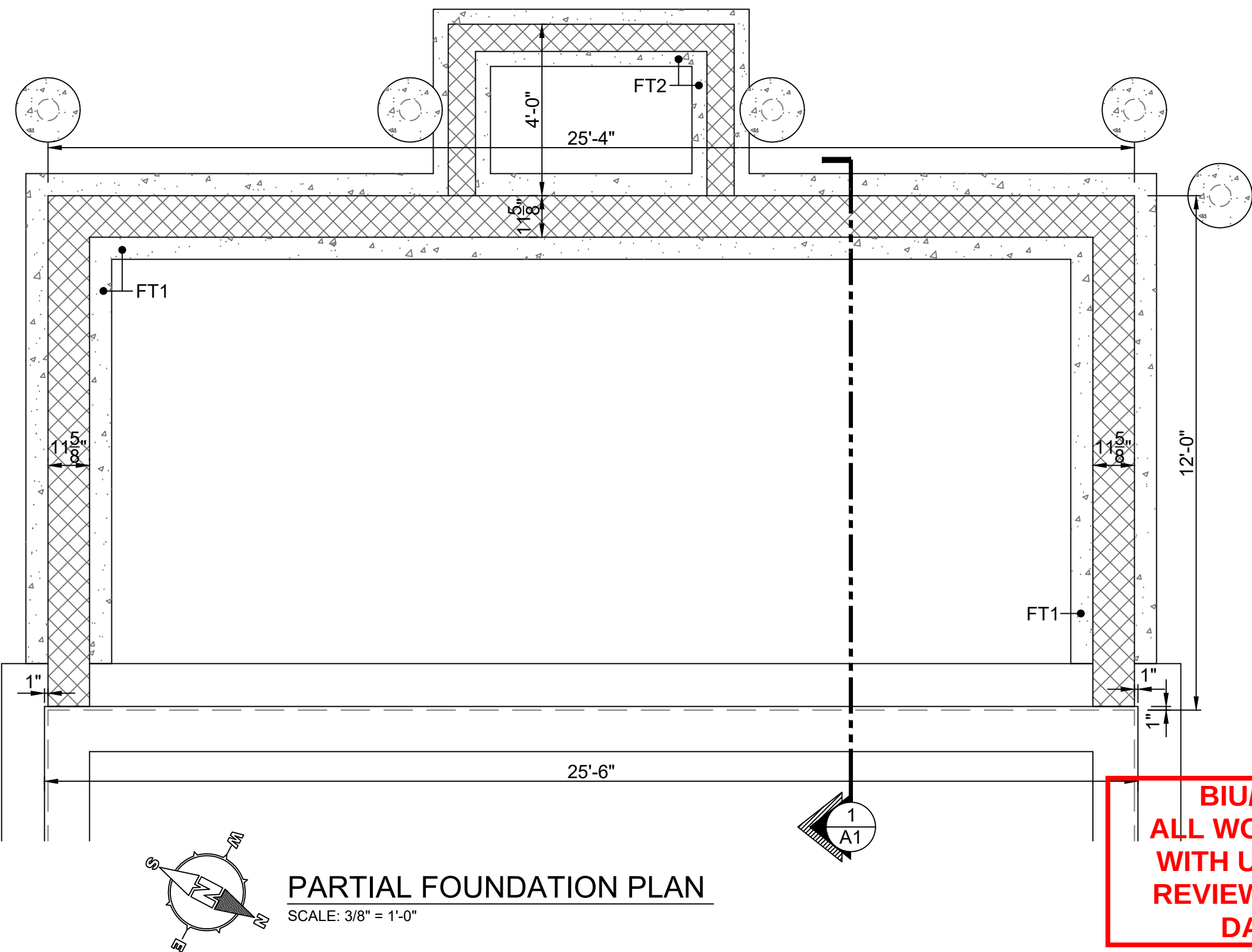
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CONCRETE SCHEDULE					
LOCATION	FINISH	f'c @ 28 DAYS	MAX W/C	SLUMP	AIR-ENTRAINMENT
BELOW GRADE-INTERIOR	ROUGH FORM & SCREED	3000 PSI	0.65	2" - 4"	0%
BELOW GRADE-EXTERIOR	ROUGH FORM & SCREED	3000 PSI	0.50	2" - 4"	5.5% ; 1.5%
SIDEWALKS, EXT. STAIRS	NON-SLIP STANDARD BROOM	4000 PSI	0.50	4" - 6"	5.5% ; 1.5%
SLAB ON GRADE-INTERIOR	STEEL TROWEL	4000 PSI	0.55	4" - 6"	0%
SLAB ON GRADE-EXTERIOR	NON-SLIP STANDARD BROOM	4000 PSI	0.50	4" - 6"	5.5% - 1.5%

STRUCTURAL DESIGN INFORMATION			
Building Occupancy Category	II	Design Wind Load	115mph
Design Live Loads		Basic Wind Speed, V	
Roof Live Load	20 psf	Importance Factor, I	1.0
Design Snow Loads		Wind Exposure Category	B
Ground Snow Load, pg	40 psf	Seismic Design Category	B
Exposure Factor	1.0	Importance Factor	1.0
Importance Factor	1.0	Site Soils	
Thermal Factor	1.0	Site Class (Assumed Soil Characteristics)	D
		Allowable Foundation Pressure	1,500 psf

FOOTING SCHEDULE					
MARK	T.O.F. ELEV	SIZE	THICK	LONGIT.	TRANS.
WF1	94'-0"	2'-0" x CONT.	1'-3"	(3) - #5	#4 @ 24"
WF2	94'-0"	1'-4" x CONT.	1'-3"	(2) - #5	#4 @ 24"

CALL BEFORE YOU DIG
PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776, www.paonecall.org
PA. ACT287(1974) REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR BLAST



Plans Valid When Released By Issue Agent
ISSUE AGENT DATE
PLAN SETS SUBMITTED
JOB SET OF
INSPECTION / RECORD SET

Abbreviations

AC	AIR CONDITIONING	HT	HEIGHT
A.C.T.	ACOUSTICAL CEILING TILE	HORIZ.	HORIZONTAL
AFF	ABOVE FINISHED FLOOR	HWR	HOT WATER RETURN
ALUM	ALUMINUM	HWS	HOT WATER SUPPLY
APT	APARTMENT	INSUL	INSULATION
B&B	BALLED AND BURLAP	JAMB	JAMB
BD	BOARD	L.P.	LAMINATED PLASTIC
BLDG	BUILDING	LAM	LAMINATE
BLK'G	BLOCKING	MAS.	MASONRY
CB	CATCH BASIN	MECH	MECHANICAL
CJ	CONTROL JOINT	MAX	MAXIMUM
CL	CENTERLINE	MIN	MINIMUM
CLR	CLEAR	M.H.	MANHOLE
CLG	CEILING	MTL	METAL
CMT	CERAMIC MOSAIC TILE	MK	MARK
CMU	CONCRETE MASONRY UNIT	N	NORTH
CPT	CARPET	NIC	NOT IN CONTRACT
CT	CERAMIC TILE	NTS	NOT TO SCALE
DN	DOWN	O.C.	ON CENTER
DS	DOWN SPOUT	P.C.	PLUMBING CONTRACTOR
DWG	DRAWING	PLAS	PLASTIC
EXIST.	EXISTING	PL or P.LAM	PLASTIC LAMINATE
ELEC	ELECTRIC	PLUMB.	PLUMBING
E.C.	ELECTRICAL CONTRACTOR	PP	PEAT POT
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	P.V.C.	POLYVINYL CHLORIDE
E.J.	EXPANSION JOINT	QT	QUARRY TILE
ELEV	ELEVATION	QUA.	QUANTITY
EQ	EQUAL	RC	ROOT CUTTING
EXT	EXTERIOR	RD	ROOF DRAIN
FD	FLOOR DRAIN	REQ'D	REQUIRED
FIN	FINISH	SIM	SIMILAR
FLR	FLOOR	TB	TOWEL BAR
FLUOR	FLUORESCENT	TTD	TOILET TISSUE DISPENSER
FE	FIRE EXTINGUISHER	TYP	TYPICAL
FT	FOOT/FEET	V	VINYL
G	GAS LINE	VCT	VINYL COMPOSITION TILE
GAL	GALLON	VERT	VERTICAL
GWB	GYPSUM WALL BOARD	VWC	VINYL WALL COVERING
GYP	GYPSUM	W	WOOD
H	HEAD	W/	WITH
H.C.	HEATING CONTRACTOR	WWF	WELDED WIRE FABRIC
HM	HOLLOW METAL		

Drawing Symbols

WALL SECTION MARKER

SECTION IDENTIFICATION
DRAWING NUMBER

DETAIL MARKER

DETAIL IDENTIFICATION
DRAWING NUMBER

INTERIOR ELEVATION MARKER

ELEVATION DIRECTION
ELEVATION IDENTIFICATION
ELEVATION DRAWING IDENTIFICATION

ROOM IDENTIFICATION

ROOM NAME
ROOM NUMBER
ANY ADD. INFO.

DOOR IDENTIFICATION

ROOM NUMBER
DOOR NUMBER

WINDOW IDENTIFICATION

WINDOW MARK

PLAN NOTE

PLAN NOTE NUMBER

REVISION

REVISION NUMBER

WALL TYPE MARKER

WALL TYPE NUMBER

ELEVATION MARKER

Project Data

The building alteration shall be in compliance with the 2018 International Existing Building Code
2018 International Building Code
2018 International Fire Code
2018 International Mechanical Code
2018 International Plumbing Code
2018 International Energy Conservation Code
NFPA 70-2017, National Electric Code.
ICC/ANSI A117.1-2009

Parcel No: 33-188-592.0-005.00
Site Area: 0.0588 Acres
Parking Spaces: Existing

Occupancy Classification: Business, Group B
No. of Stories: One Story, Slab on Grade

Building Area:
Existing 540± sf
Addition 304 sf
Total Building Area: 844± sf

Building Perimeter: 118± lft.

Type of Construction: Type 3B
Max. Allowable Area: 19,000 sq.ft. (Table 506.2)
Max. Allowable Height: 55'-0", 3 Story (Tables 504.3/504.4)

Egress Units:
(1) 44" doors 44 in
Total Egress Width 44 in

Max egress width can accommodate up to 220 occupants
0.2 in / occupant per IBC 1005.3.2

Project Data

Building Element	Fire Resistance Rating Required	Fire Resistance Rating Provided	Table
Structural Frame:	0	0	601
Bearing Walls:			
Exterior	2	2	601
Interior	0	0	
Non Bearing Walls/Partitions:			
Exterior	0	0	602
Interior	0	0	601
Floor Construction			
Support Beams and Joists	0	0	601
Roof Construction			
Support Beams and Joists	0	0	601

Calculated Occupant Load:

	Sf/Occ	Area	Occupants
Pump Area / Elec	300	844 sf	3

Total Occupants: 3

Notes:
1. A presumptive allowable bearing pressure of 1,500 psf was used. This office assumes no liability as to the validity or correctness of this assumption as the owner did not perform a subsurface soil investigation.
2. All electrical material, devices, appliances and equipment shall be labeled and listed by a certified testing laboratory or agency.
3. Contractor to verify all dimensions and conditions prior to any demolition, construction or fabrication. Architect to be notified of any discrepancies prior to start of work in question.
4. Locate existing underground utilities in areas of construction - contact PA One-Call before you dig. Coordinate w/utility companies for shut off requirements of active lines

Location Map

Drawing Index

CS	Site Plan, Project Data, Foundation Plan, Section, Schedules
A1	Floor Plan, Elevations, Section, Schedules
A2	Piping Support Details, Section, Schedule
ME1	Mech/Elec Plans, Schedules, General Notes

GARY MATCZAK ARCHITECTS

4509 WEST RIDGE ROAD

ERIE, PA 16506

814-836-8500

ADDITION to:

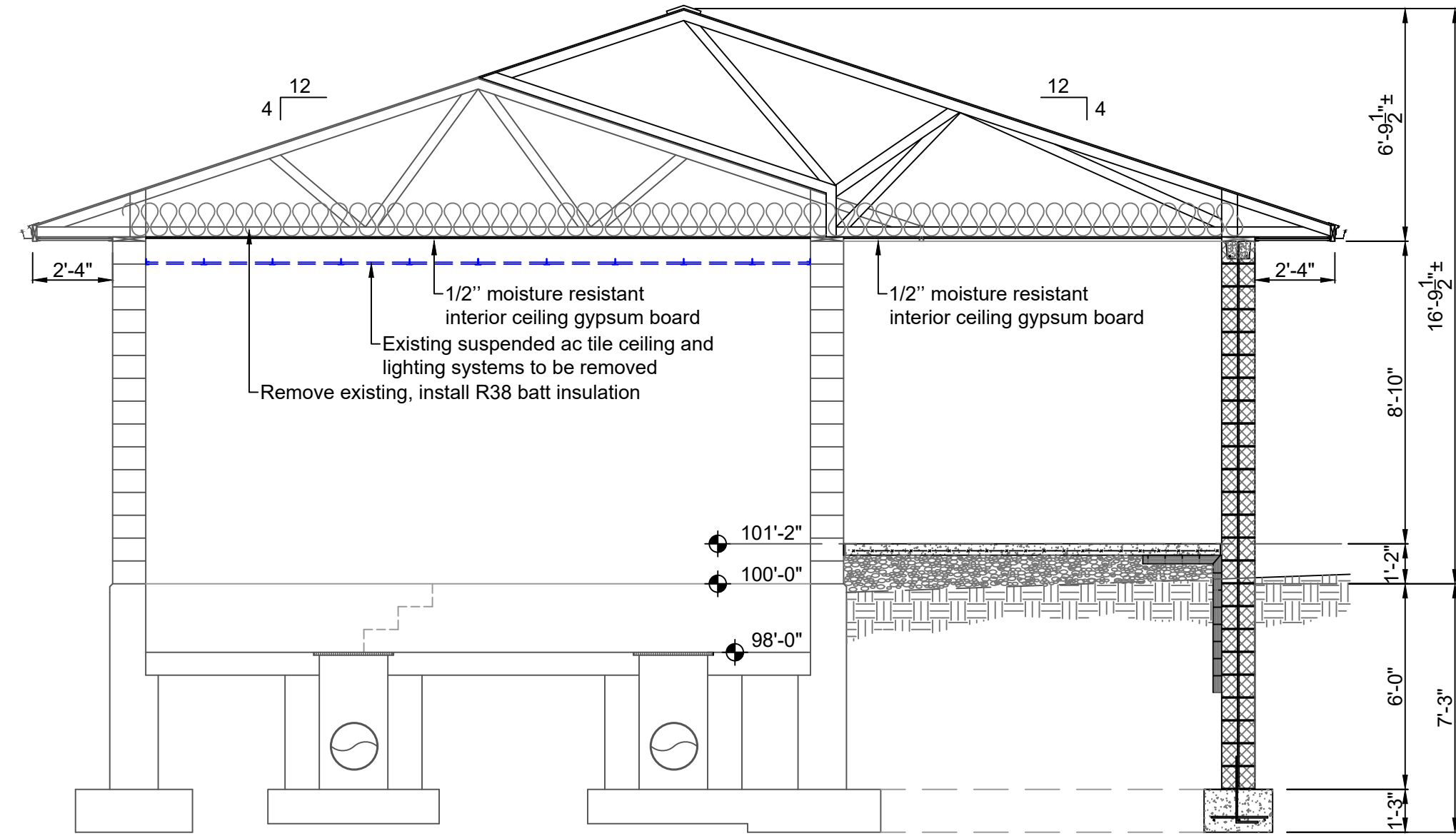
ROUTE 19 WATER SYSTEM PUMP STATION

ERIE, PENNSYLVANIA 16428

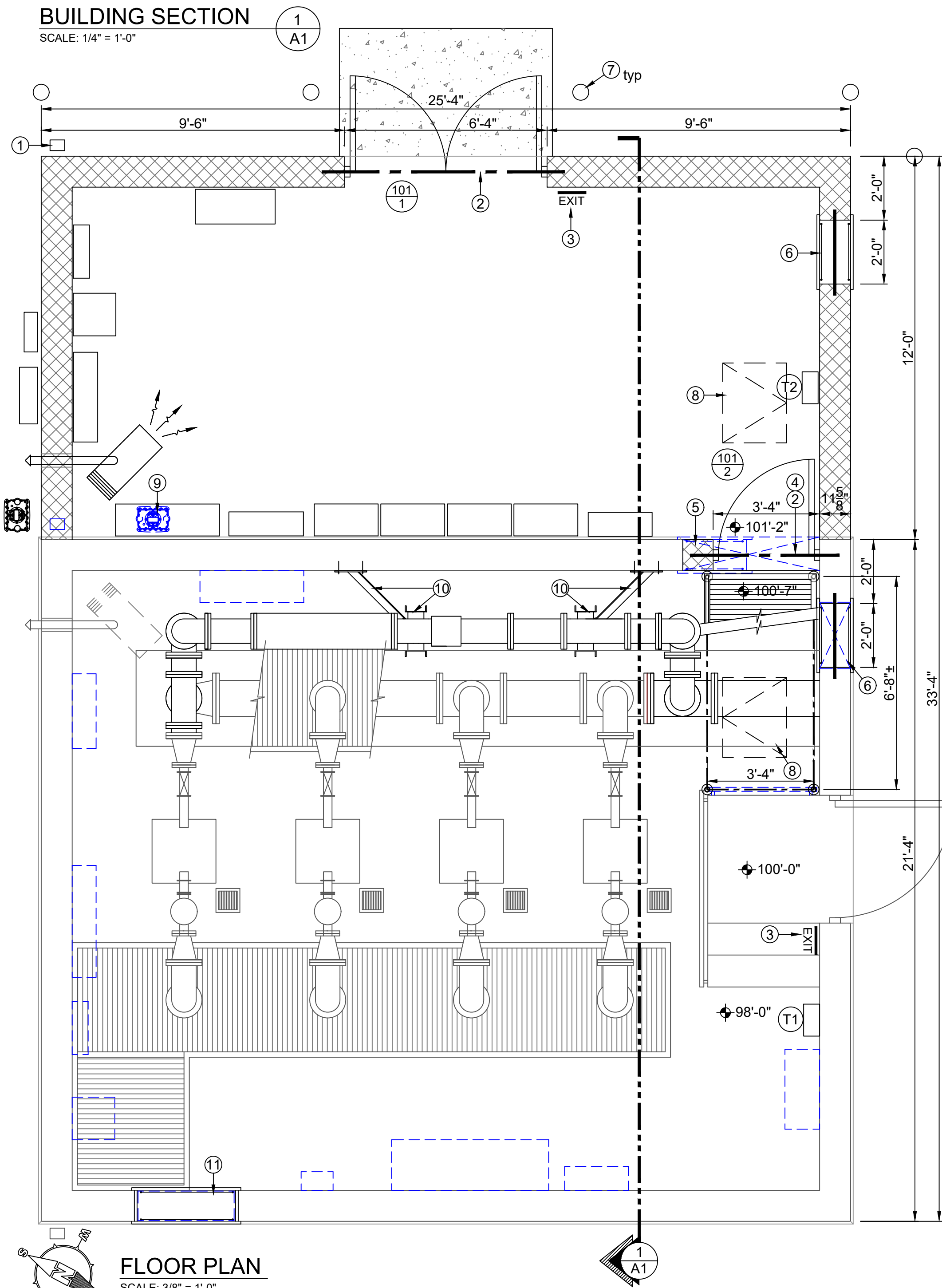
PROJECT NO. 2337

DATE APRIL 2025

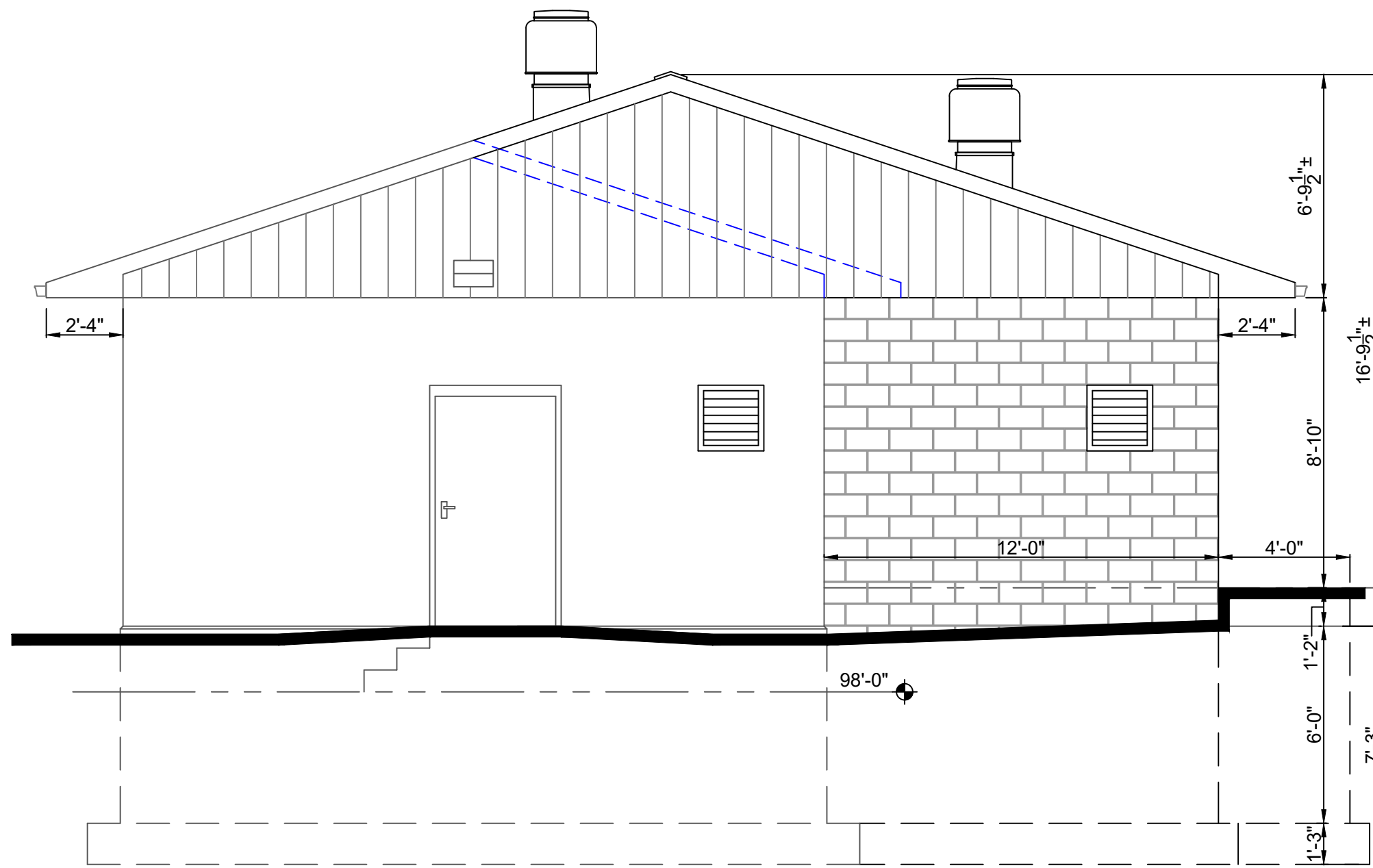
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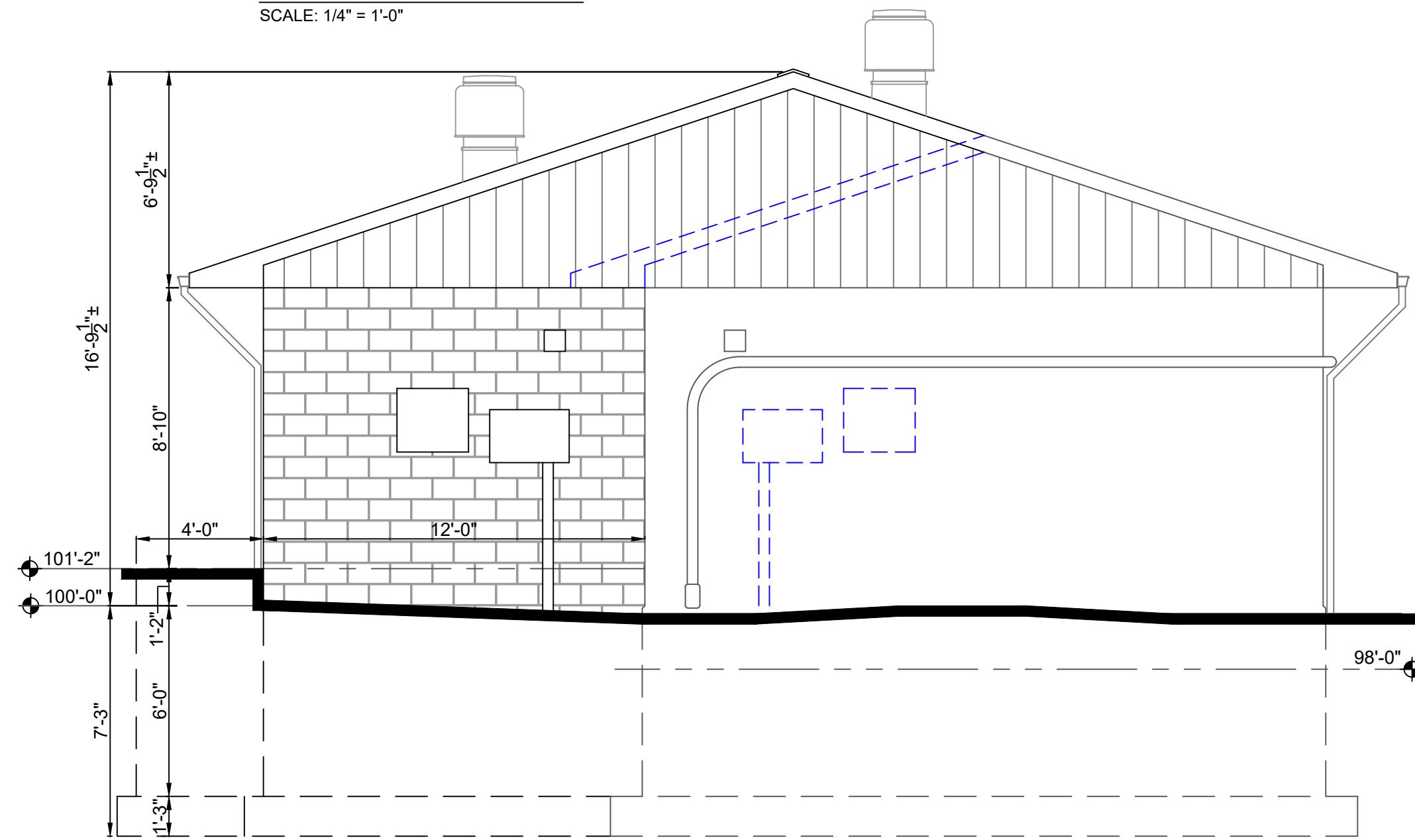
BUILDING SECTION
SCALE: 1/4" = 1'-0"



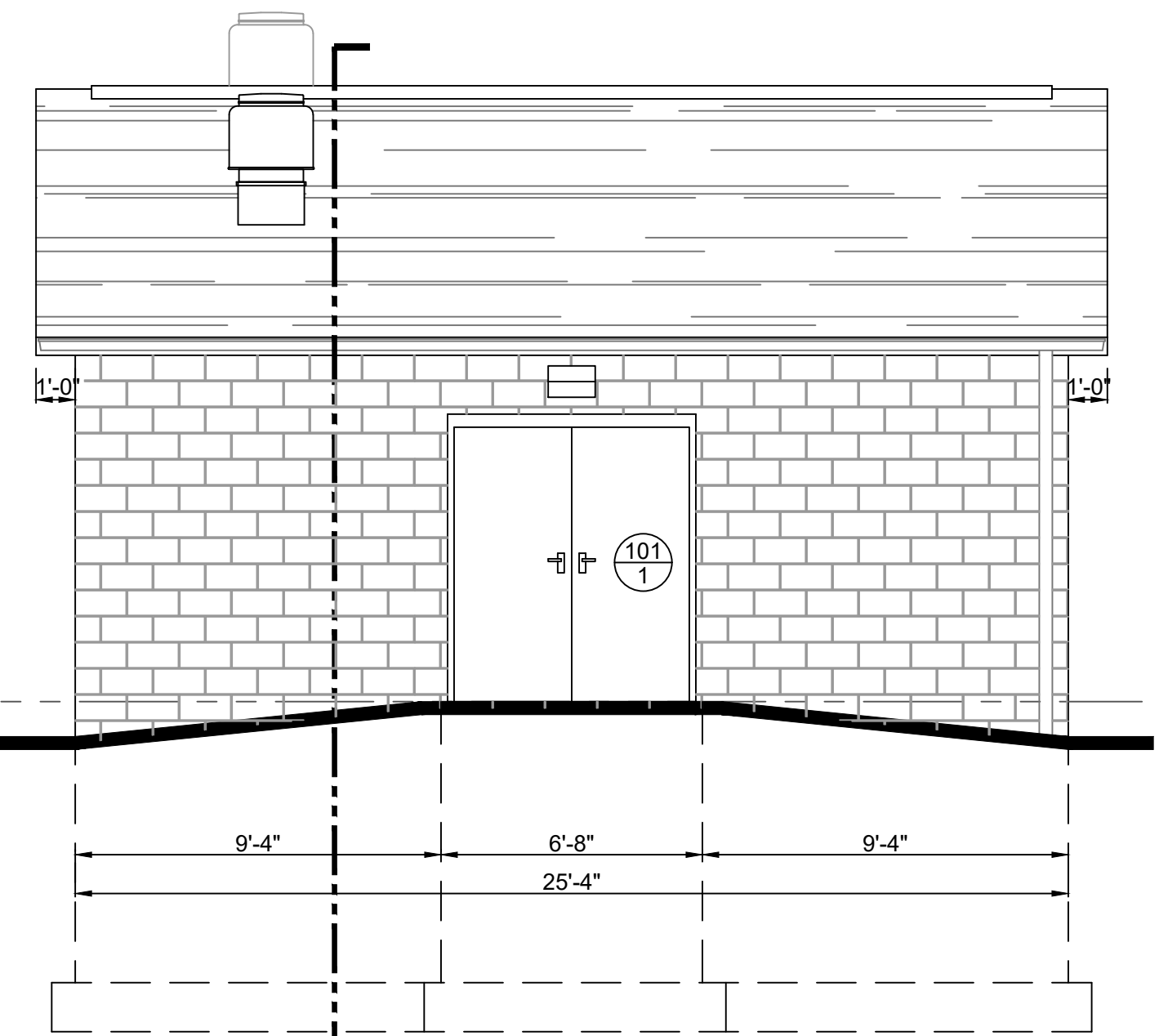
FLOOR PLAN
SCALE: 3/8" = 1'-0"



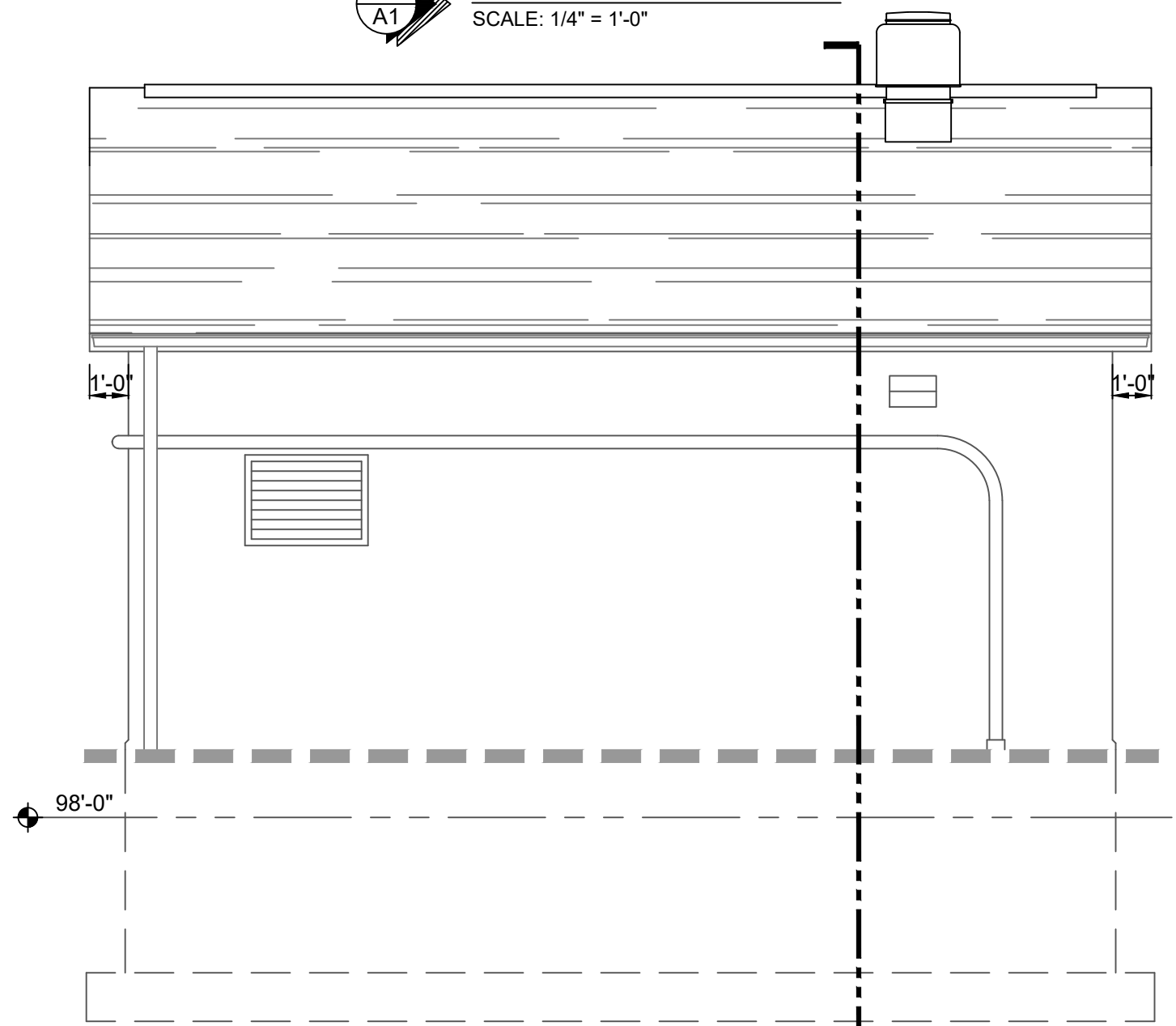
NORTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

DOOR & FRAME SCHEDULE									
NO.	DOOR					FRAME			REMARKS
	SIZE	THK	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	
101/1	(2) 36"x84"	1 1/2"	A	HM	PAINTED	A	HM	PAINT	- PANIC CLOSERS, INSUL, GALV
101/2	36"x84"	1 1/2"	A	HM	PAINTED	A	HM	PAINT	- PASSAGE CLOSER, GALV

LOOSE LINTEL SCHEDULE			
UP TO 6'-0" CLR. OP'NG.			
12" WALL	8" DEEP CMU	GROUT SOLID W/ (2) - #5 BARS	8" END BRG.

Note: Grout lintel end bearing solid

KEY NOTES - FLOOR PLAN	
1	Connect downspouts to existing storm water piping system
2	Install hollow metal door and frame. Install precast concrete lintel as required, grout adjacent masonry opening cells solid. See Loose Lintel Schedule.
3	Install tactile exit signage
4	Sawcut and remove existing cmu for hm door and frame
5	Existing louver to be removed, patch masonry as required
6	Louver w/motorized damper to be installed, install precast concrete lintel as required, grout adjacent masonry opening cells solid. See Loose Lintel Schedule
7	Install 6" concrete filled steel bollard, typ of 4. See Foundation Plan
8	Install ceiling access panel, coordinate with truss layout.
9	Existing gas meter/service to be removed / relocated. Coordinate with utility company
10	Water piping support bracing. See details drawing A2
11	Existing louver w/motorized damper to be removed and replaced

LEGEND	
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	MASONRY CONSTRUCTION
	TACTILE "EXIT" SIGNAGE
	FIRE EXTINGUISHER

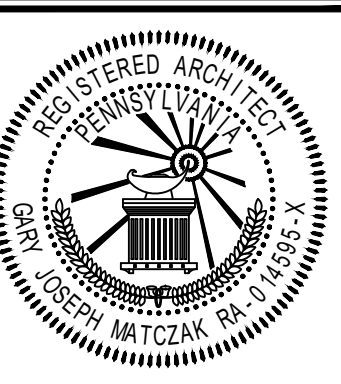
BIU/MAI RELEASED
ALL WORK MUST COMPLY
WITH UCC REGULATIONS
REVIEWED BY TLH 000888
DATE: 06/10/2025 *Beny E. Kozak*

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GARY MATCZAK ARCHITECTS
4509 WEST RIDGE ROAD
ERIE, PA 16506

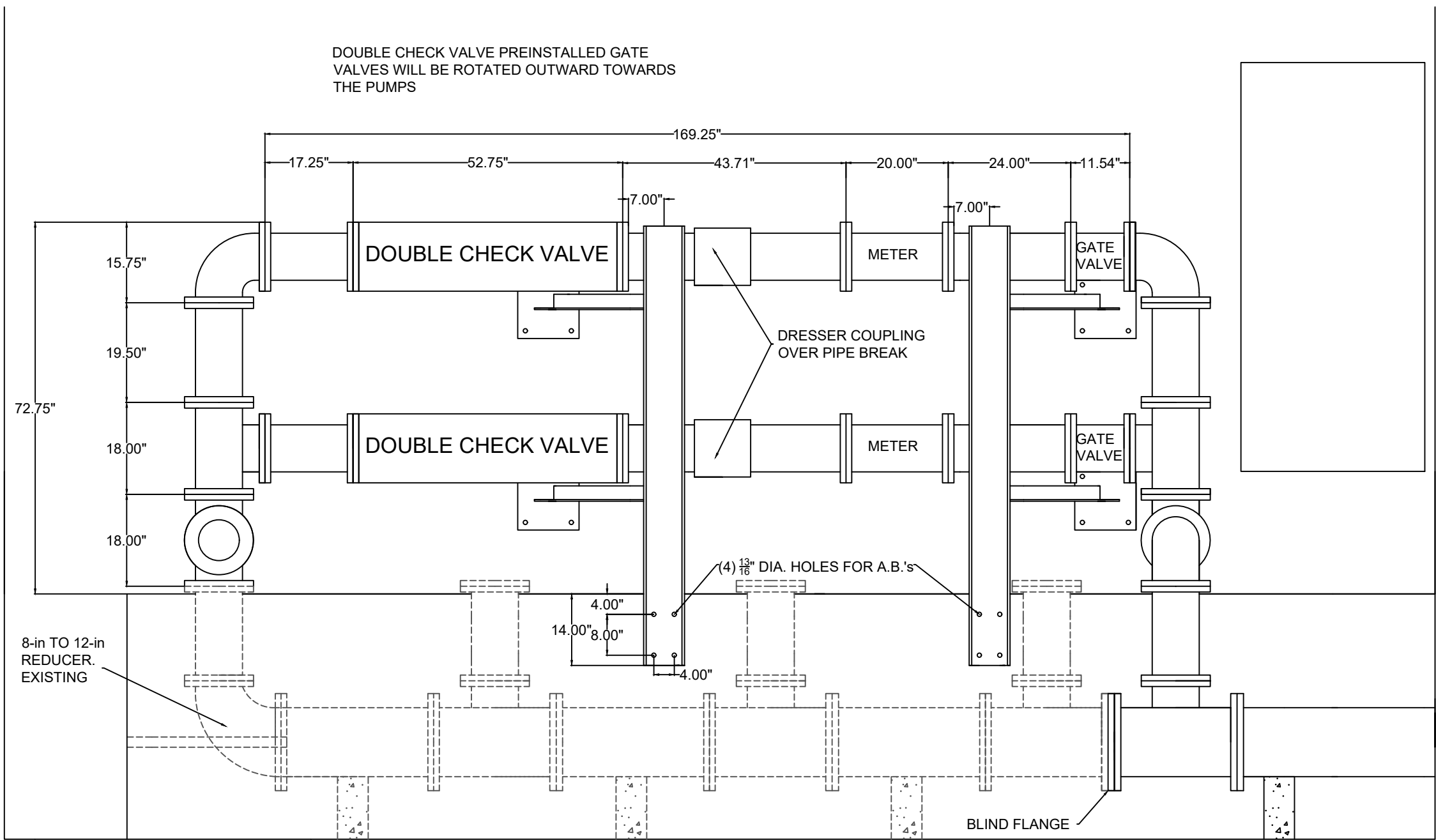
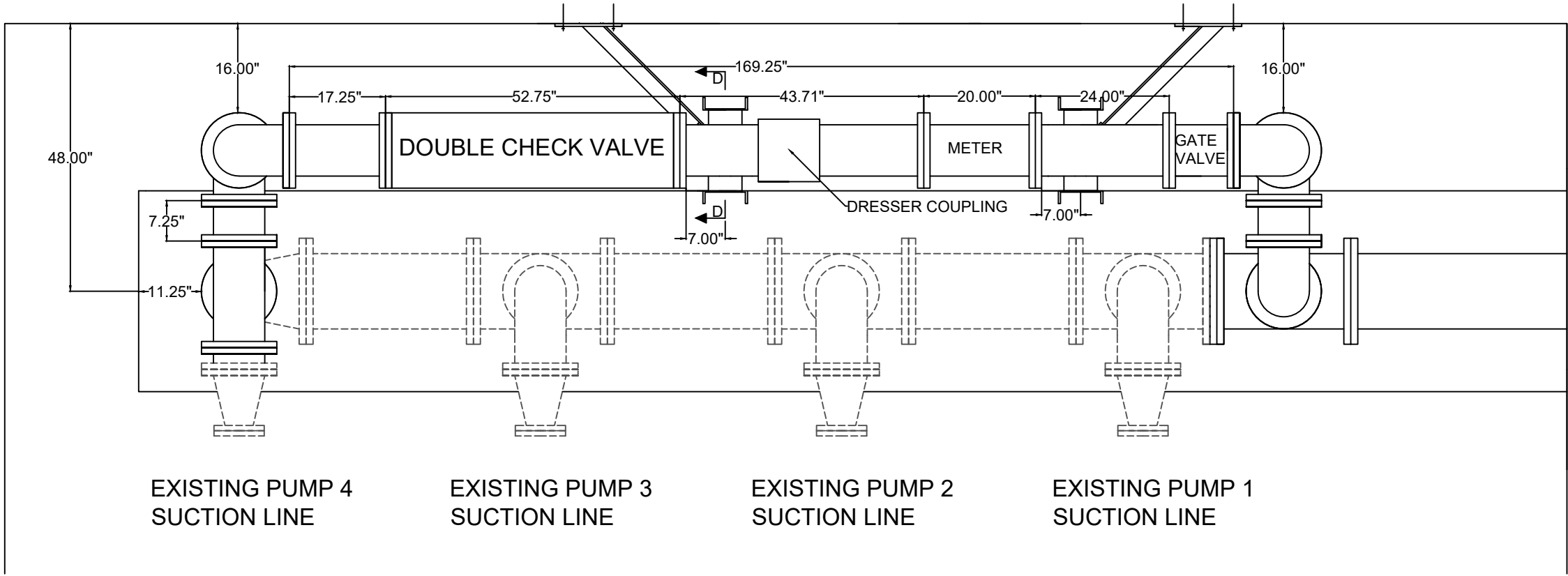
814-836-8500

ADDITION to:
ROUTE 19 WATER SYSTEM PUMP STATION
ERIE, PENNSYLVANIA 16428

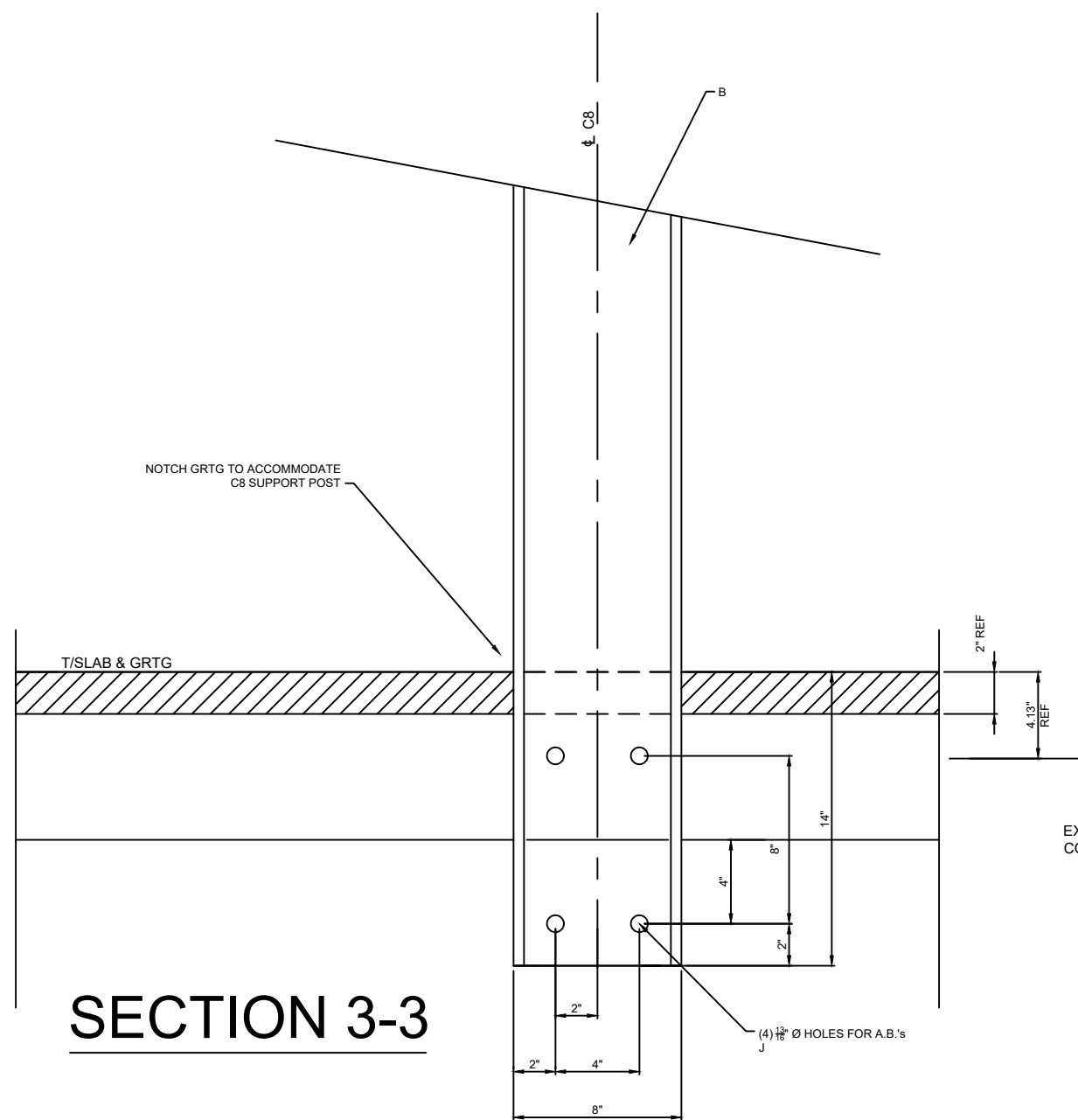


FLOOR PLAN ELEVATIONS SECTION SCHEDULES		
NO.	DATE	REVISION
A		1
PROJECT NO.		2337
DATE		APRIL 2025

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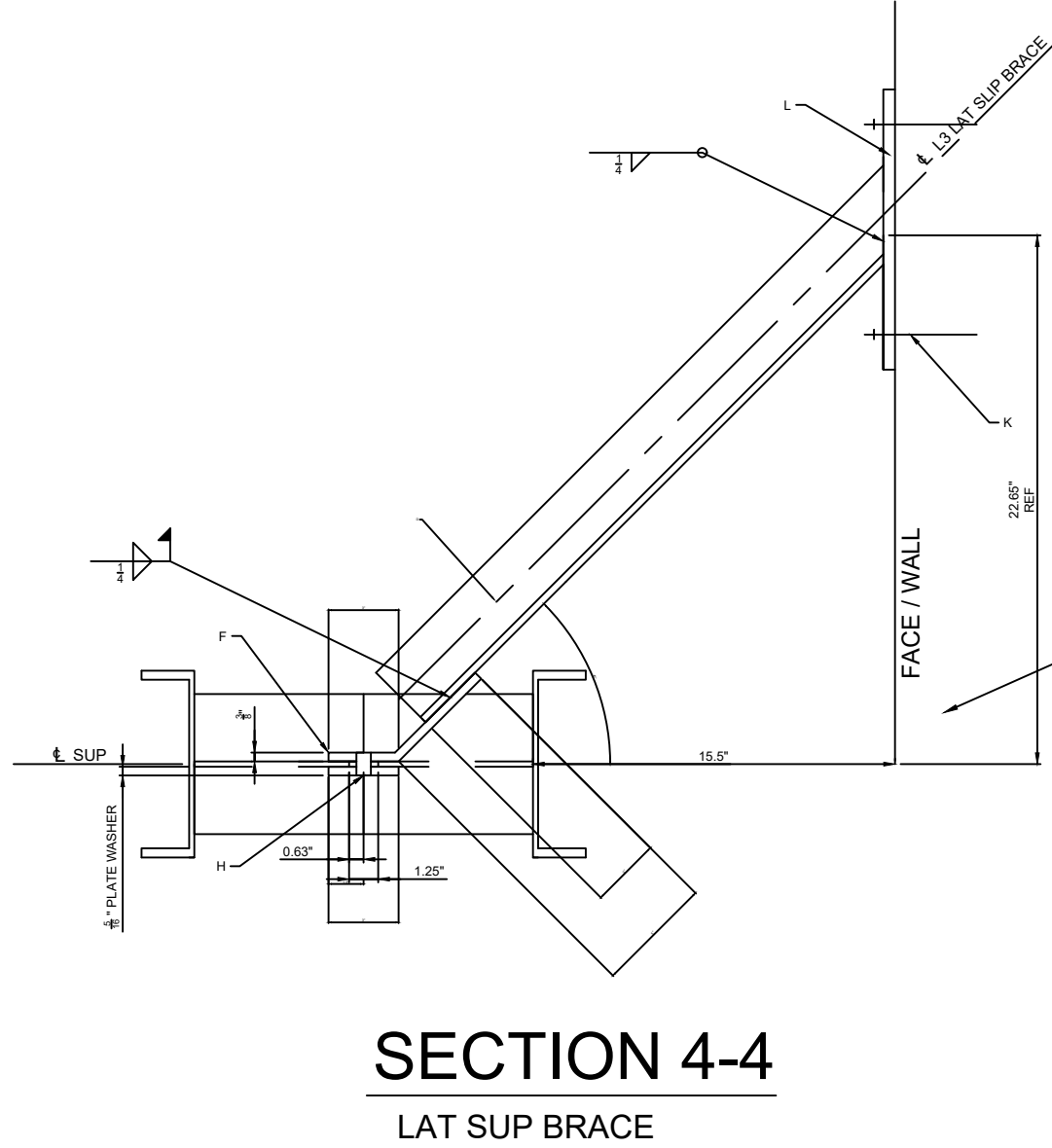


SECTION VIEW C
SCALE: 1/2" = 1'-0"

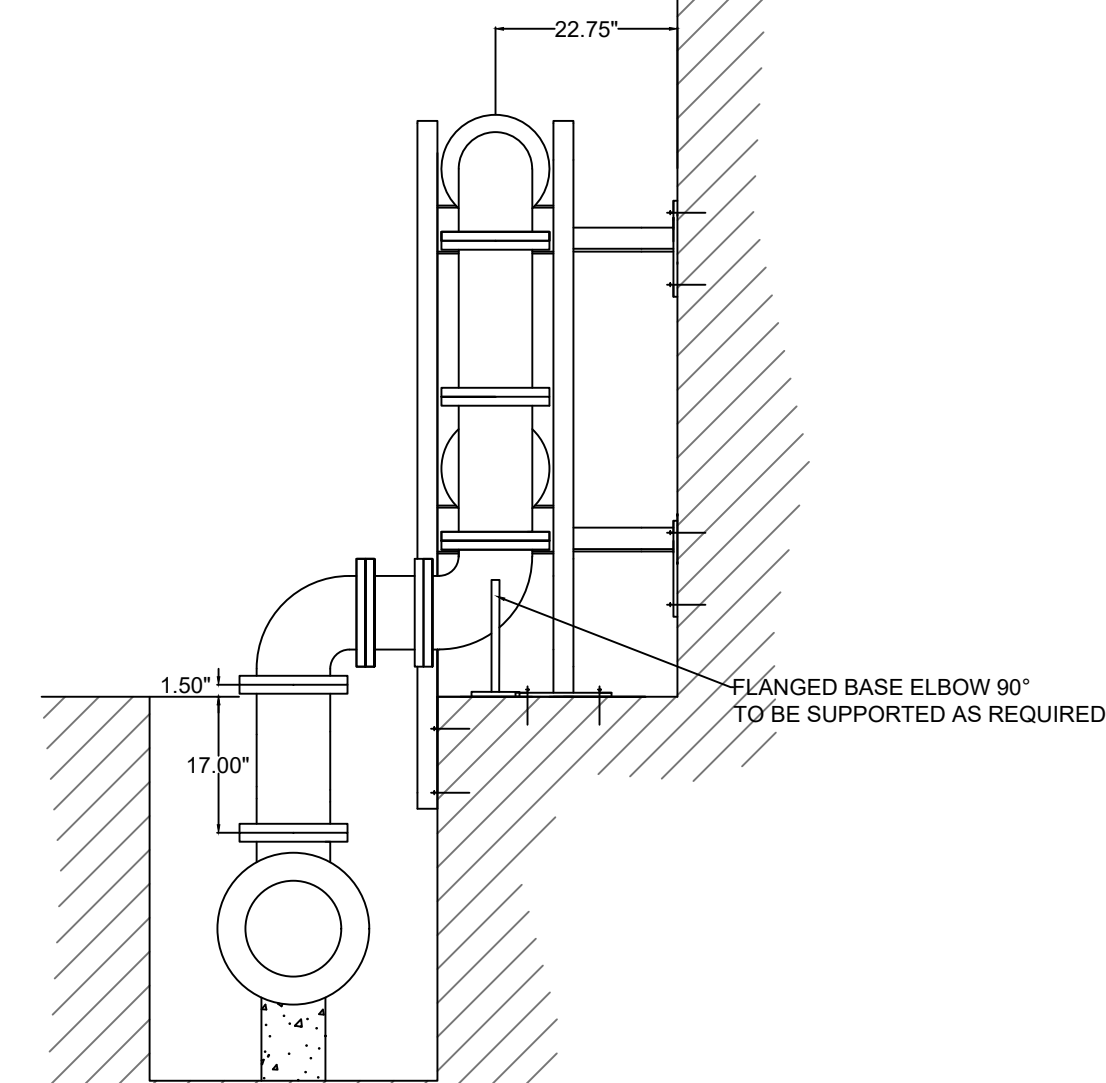


CONTRACTOR TO FIELD VERIFY MEASUREMENTS AND LOCATIONS OF ALL EXISTING PIPE WORK, IN ADDITION TO ALL TRENCH DIMENSIONS.

ALL DRAWINGS REFERENCE 1988 ROUTE 19 WATER SYSTEM PUMP STATION DRAWING PAGE 12 FOR EXISTING CONDITIONS. ADDITIONAL INFORMATION WAS GATHERED FROM IN FIELD MEASUREMENTS AND STANDARD PIPE SIZING.

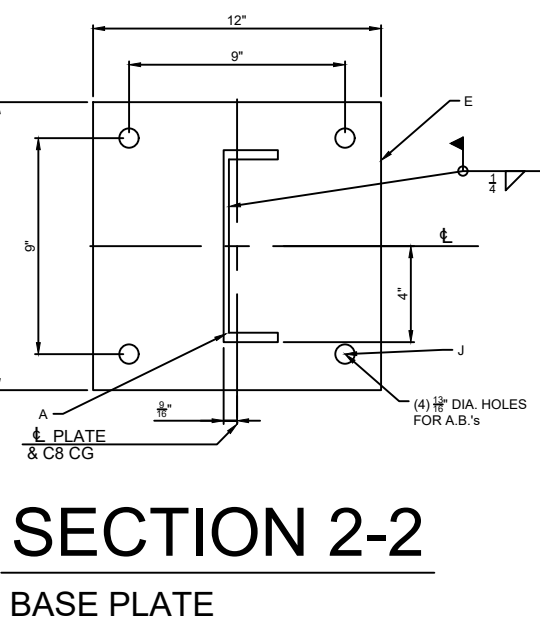


SECTION 4-4
LAT SUP BRACE

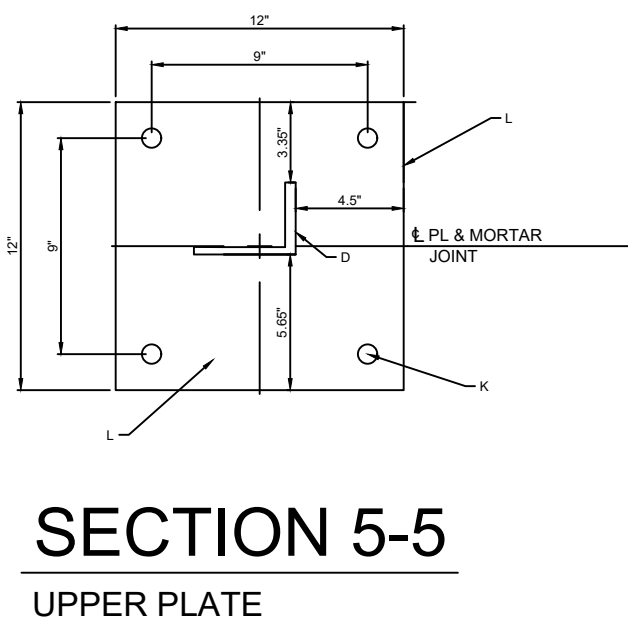


SECTION VIEW B
SCALE: 1/2" = 1'-0"

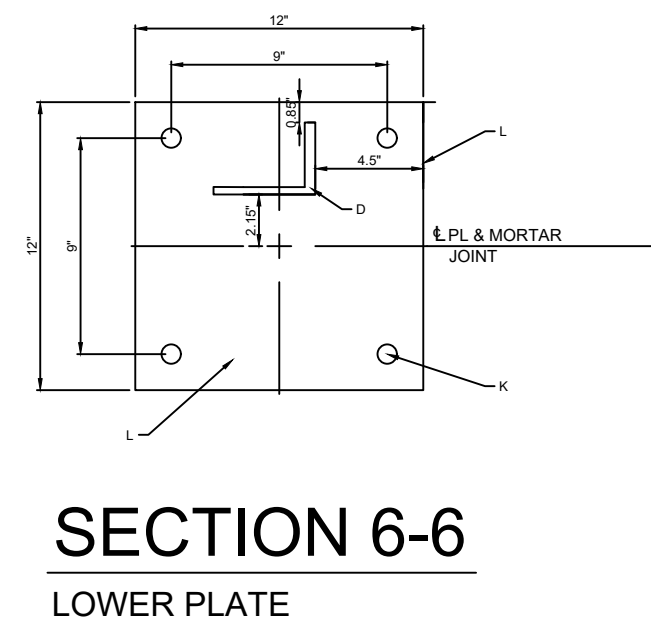
- NOTES:
1. TWO PIPE SUPPORT ASSEMBLIES REQUIRED
 2. QUANTITIES SHOWN ARE PER PIPE SUPPORT ASSEMBLY
 3. ITEM (I) INTENTIONALLY OMITTED
 4. REFER TO ASSOCIATED DESIGN DETAILS FOR ITEM DESIGNATIONS



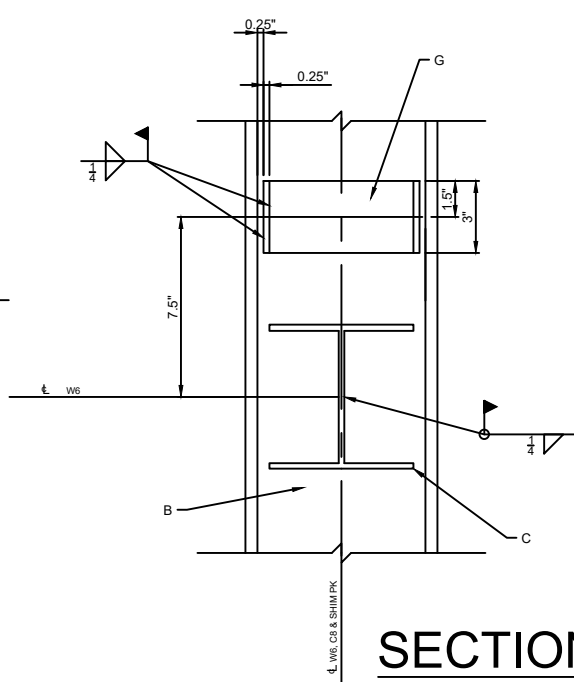
SECTION 2-2
BASE PLATE



SECTION 5-5
UPPER PLATE

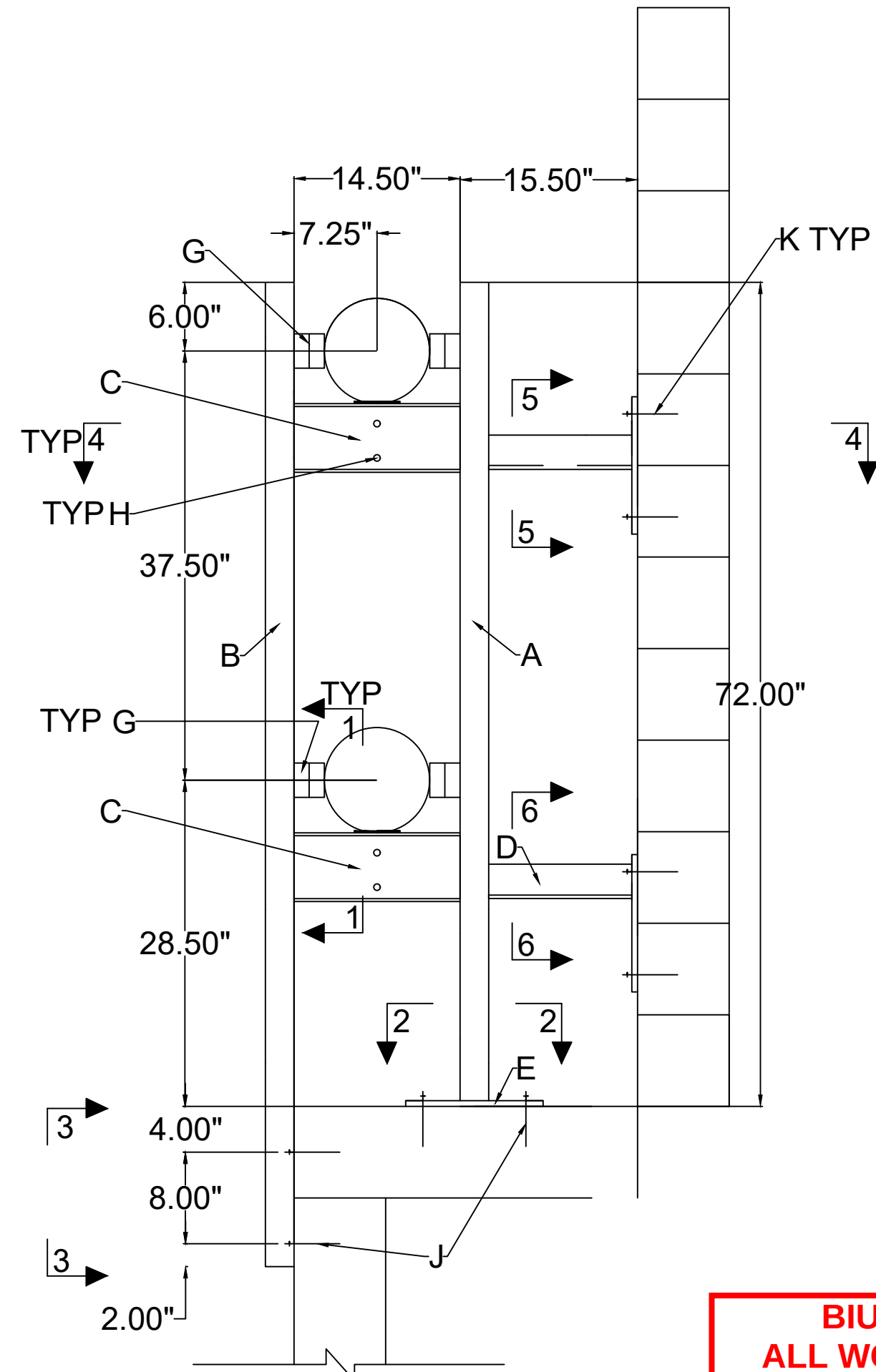


SECTION 6-6
LOWER PLATE



SECTION 1-1

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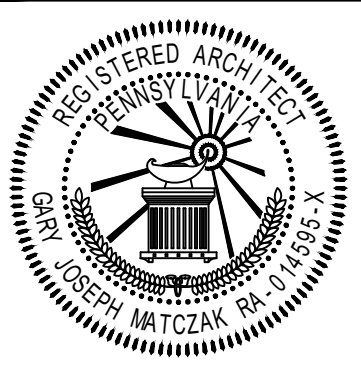
SUPPORT DETAIL D
ELEVATION VIEW

BIU/MAI RELEASED
ALL WORK MUST COMPLY
WITH UCC REGULATIONS
REVIEWED BY TLH 000888
DATE: 06/10/2025 *Erin L. Keith*

Item	Qty	Description & Requirements	Material	ASTM	Finish
a	1	C8x11.5 x 5-11 1/2" lg	Steel	A36	Galvanized
b	1	C8x11.5 x 7'-2" lg with (4) 1/2" dia. bolt holes bottom end for bolts (j)	Steel	A36	Galvanized
c	2	W6x15 x 0'-14 1/2" lg with (2) 5/8" x 1 1/2" lg horz slotted bolt holes (centered in web @ 3" ga) for bolts (h). 5/8" thick continuous hardened plate washer of sufficient width to completely cover the slot(s) shall be provided. PTFE slide plate on top flange at pipe contact area.	Steel	A36 (W6) F436 (PL WASHER)	Galvanized
d	2	L3x3x1/2 x Length as required, 45 deg mitre one end	Steel	A36	Galvanized
e	1	PL 1/2" x 12 x 12 lg with (4) 1/2" dia. bolt holes for bolts (j)	Steel	A36	Galvanized
f	2	Bent PL 3/4" x 4 1/2" x 0'-8" lg w/3" & 5" legs and (2) 5/8" dia. bolt holes short leg (3" ga & 1/2" edge dist). See Detail	Steel	A36	Galvanized
g	As Required	PL 3/4" wide x 0'-7 1/2" lg Shim Pack, thickness as required. PTFE surface on outer ply	Steel	A36	Galvanized
h	4	1/2" dia. x 0'-2 1/2" long framing bolts (centered in horz slots of item (c) installed finger tight with Lockite Threadlocker Red 271)	Steel	A325	Galvanized
j	8	1/2" dia. x 0'-7" lg Hilti adhesive anchor HAS-B-105 HDG + HIT-HY-200 V3 (4" min embedment)	Steel	F1554 Gr 105	Galvanized
k	8	1/2" dia. x 0'-4" lg Hilti adhesive anchor HIT-SC Threaded Rod 5.8 + HIT 270 w/sieve sleeve (2" min embedment - hollow CMU)	5.8 Carbon Steel	F568	Galvanized
l	2	PL 1/2" x 12 x 12 lg with (4) 1/2" dia. bolt holes for bolts (k)	Steel	A36	Galvanized

GARY MATCZAK ARCHITECTS
4509 WEST RIDGE ROAD
ERIE, PA 16506
814-836-8500

ADDITION TO:
ROUTE 19 WATER SYSTEM PUMP STATION
ERIE, PENNSYLVANIA 16428
6152 PEACH STREET



SUPPORT DETAILS
SECTIONS
SCHEDULE

NO.	DATE	REVISION

A 2

PROJECT NO. 2337
DATE APRIL 2025

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LIGHTING FIXTURE SCHEDULE						
	LAMP(S)			FIXTURE DESCRIPTION	CATALOG SERIES	NOTES
TAG	TYPE	WATTS	QTY			
A	LED	65	1	4' LED VAPOR TIGHT, WHITE, 5000K, 120-277V, 8580 LUMENS	PLT-80066	1
B	LED	76	1	LED WALL PACK. 5000K. 7700 LUMENS	ULINE H-9996	1
					-	1
				EXIT SIGN w/EMRGNCY LIGHTING, WHITE, RED LETTERS, INTERNAL BATTERY, LED	MOBERN LEDCXTEU2RWRC	1
				EMERGENCY LIGHTING REMOTE HEAD, WHITE, LED	MOBERN RHLED	1

1 PROVIDE PROPER MOUNTING ACCESSORIES.

UNIT HEATER DATA											
TAG	CFM	NATURAL GAS HEATING			UNIT ELECTRICAL				UNIT WEIGHT (LBS)	MANUFACTURER/MODEL	NOTES
		MBH INPUT	MBH OUTPUT	THERMAL EFFICIENCY	V/Ø/Hz	AMPS	HP	MOCP			
REZ-1	456	30	24.6	82	115/1/60	1.9	0.06	15	55	REZNOR V3 TCORE2	1, 2

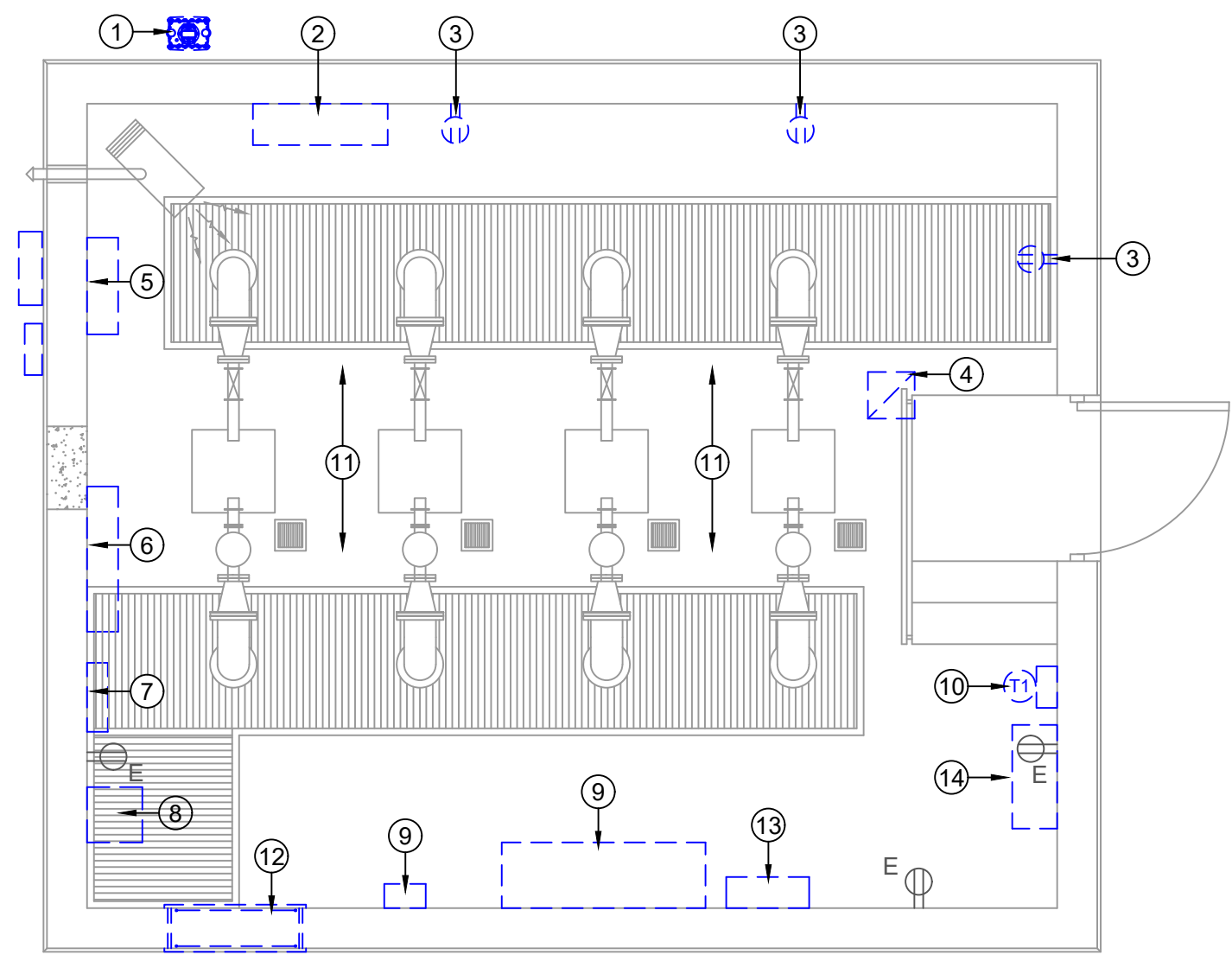
1. CONCENTRIC VENT KIT, WIRED TO PROGRAMMABLE T-STAT
2. CEILING SUSPENSION KIT

ELECTRIC PANEL 'A'					
480V 3Ø 400A 4W					
SPARE		1	2		SPARE
SPARE		3	4		SPARE
SPARE		5	6		SPARE
SPARE		7	8		SPARE
VFD CABINET	300	9	10		SPARE
		11	12		SPARE
15KVA TRANSFORMER FEED	30	13	14		SPARE
		15	16		SPARE
SPARE		17	18		SPARE
SPARE		19	20		SPARE
SPARE		21	22		SPARE
SPARE		23	24		SPARE

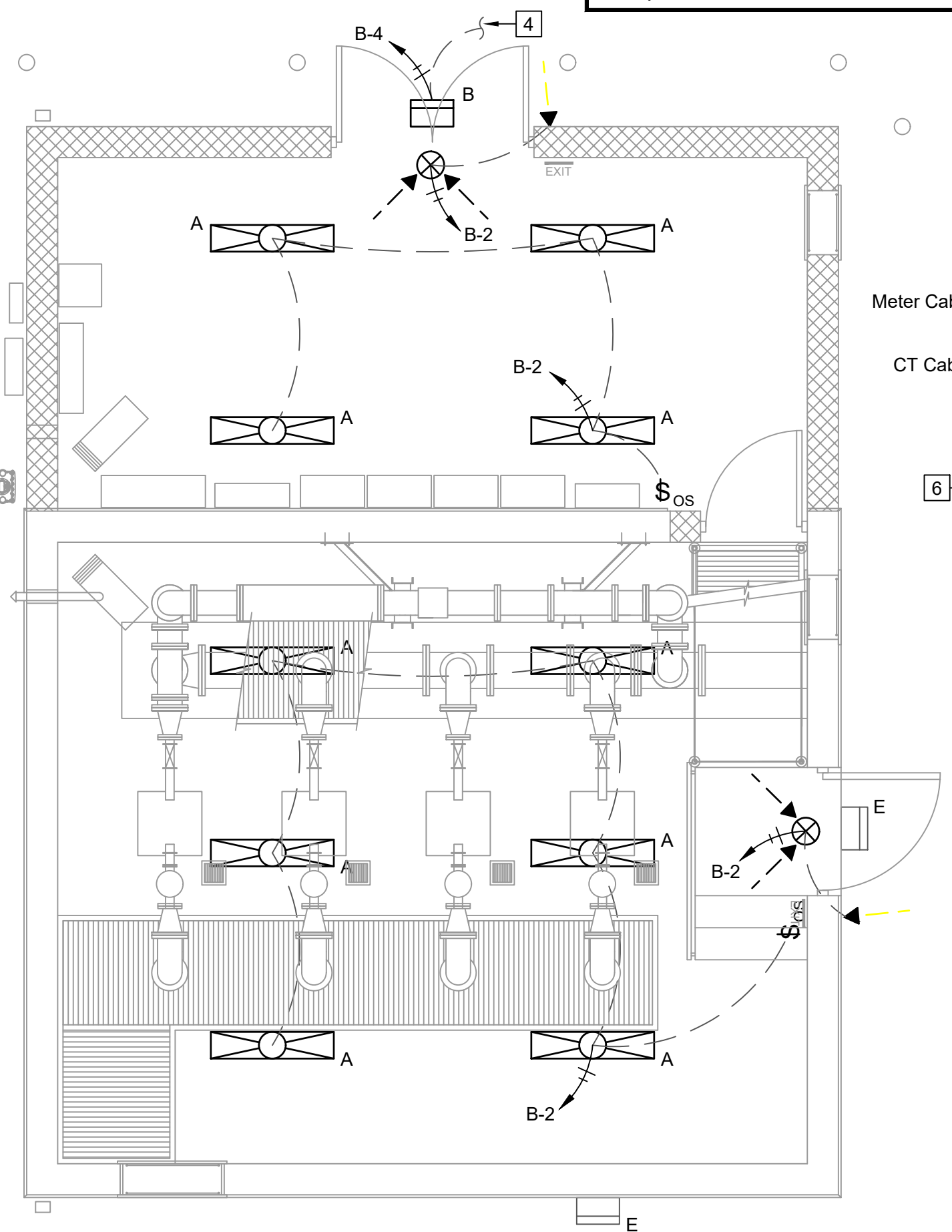
ELECTRIC PANEL 'B'					
120/240V 1Ø 100A 4W					
GENERATOR BLOCK HEATER	20	1	2	20	LIGHTS - INTERIOR
VFD PANEL FANS	20	3	4	20	LIGHTS - EXTERIOR
STWA HERSHEY TP-METERING	20	5	6	20	EXHAUST FAN / LOUVERS
GENERATOR BATTERY CHARGER	20	7	8	20	REZNOR - EXIST
TANK LEVEL RECORDER	20	9	10	20	METER PIT
RECEPTACLES - EAST/NORTH WALLS	20	11	12	20	METER PIT LIGHT
RECEPTACLES - SOUTH/WEST WALLS	20	13	14	15	DP CONTROL PANEL
SUMP PUMP	20	15	16	15	DP CONTROL PANEL
SPARE		17	18	15	REZNOR (REZ-1)
SPARE		19	20	20	EXHAUST FAN / LOUVER
SPARE		21	22		SPARE
SPARE		23	24		SPARE
SPARE		25	26		SPARE
SPARE		27	28		SPARE
SPARE		29	30		SPARE
SPARE		31	32		SPARE

□ = DENOTES GFCI BREAKER

- ### KEY NOTES - DEMOLITION
- Existing gas meter and service to be relocated. Coordinate with utility company
 - Relocate and reconnect existing 400A transfer switch
 - Existing power device and circuit to be removed, coordinate in field
 - Existing roof mounted exhaust fan system to be removed and replaced
 - Existing 3P 400A 480V fusible disconnect switch to be removed
 - Existing 3P 400A 480V electrical main lug panel to be removed
 - Existing 1P 60A 120/240V electrical panel to be removed
 - Existing 15KVA 480V to 240V wall mount transformer to be removed
 - Existing pump motor panel system to be removed
 - Existing exhaust fan control/thermostat to be removed and replaced
 - Existing ceiling light fixtures/circuits to be removed this area
 - Existing louver/damper system to be removed and replaced
 - Existing IT cabinet to be relocated
 - Existing water metering cabinet to be relocated



MECH/ELEC DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

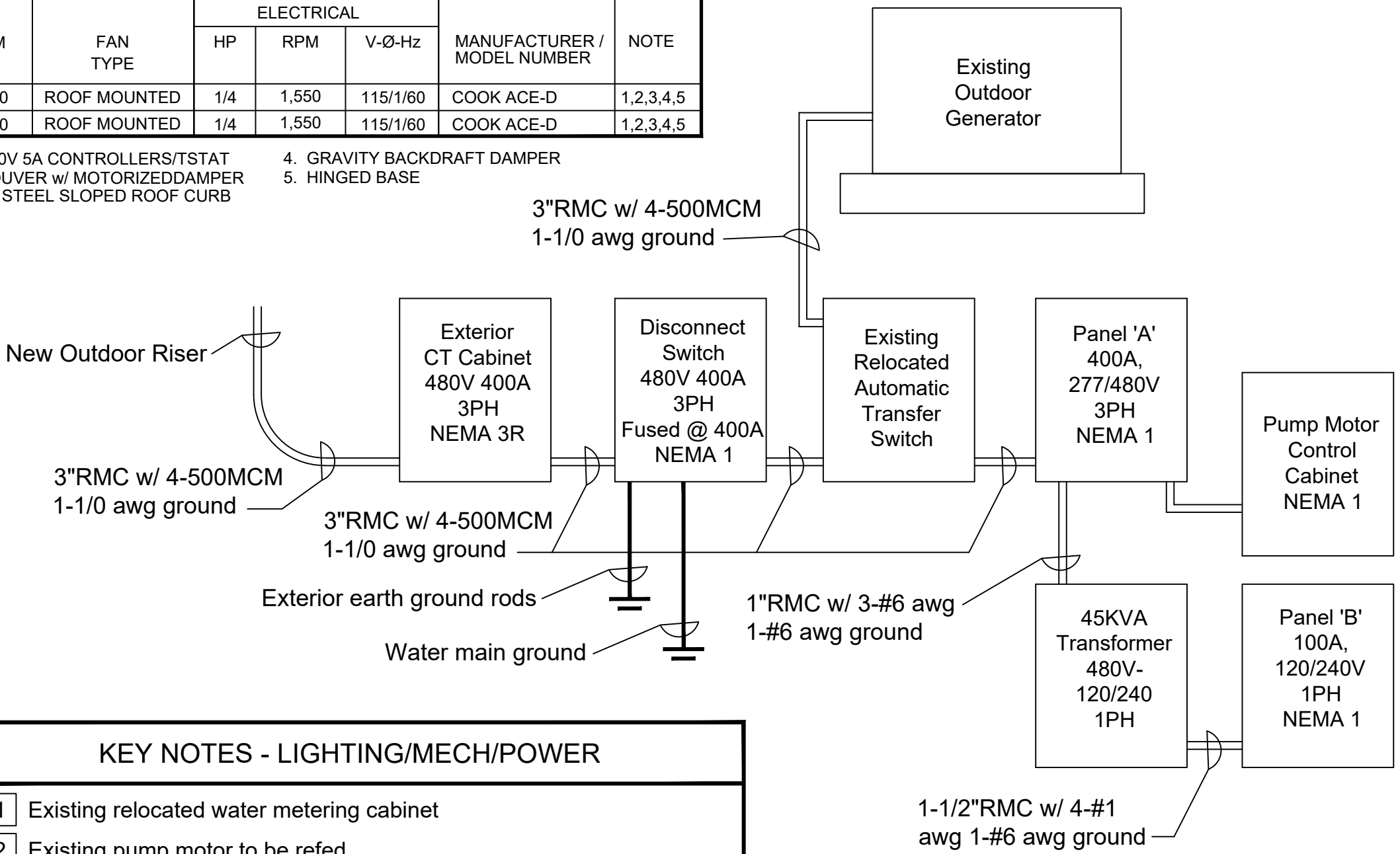


LIGHTING PLAN
SCALE: 1/4" = 1'-0"

EXHAUST FAN DATA							
TAG	CFM	FAN TYPE	ELECTRICAL			MANUFACTURER / MODEL NUMBER	NOTE
			HP	RPM	V-Ø-Hz		
EF-1	1,000	ROOF MOUNTED	1/4	1,550	115/1/60	COOK ACE-D	1,2,3,4,5
EF-2	1,000	ROOF MOUNTED	1/4	1,550	115/1/60	COOK ACE-D	1,2,3,4,5

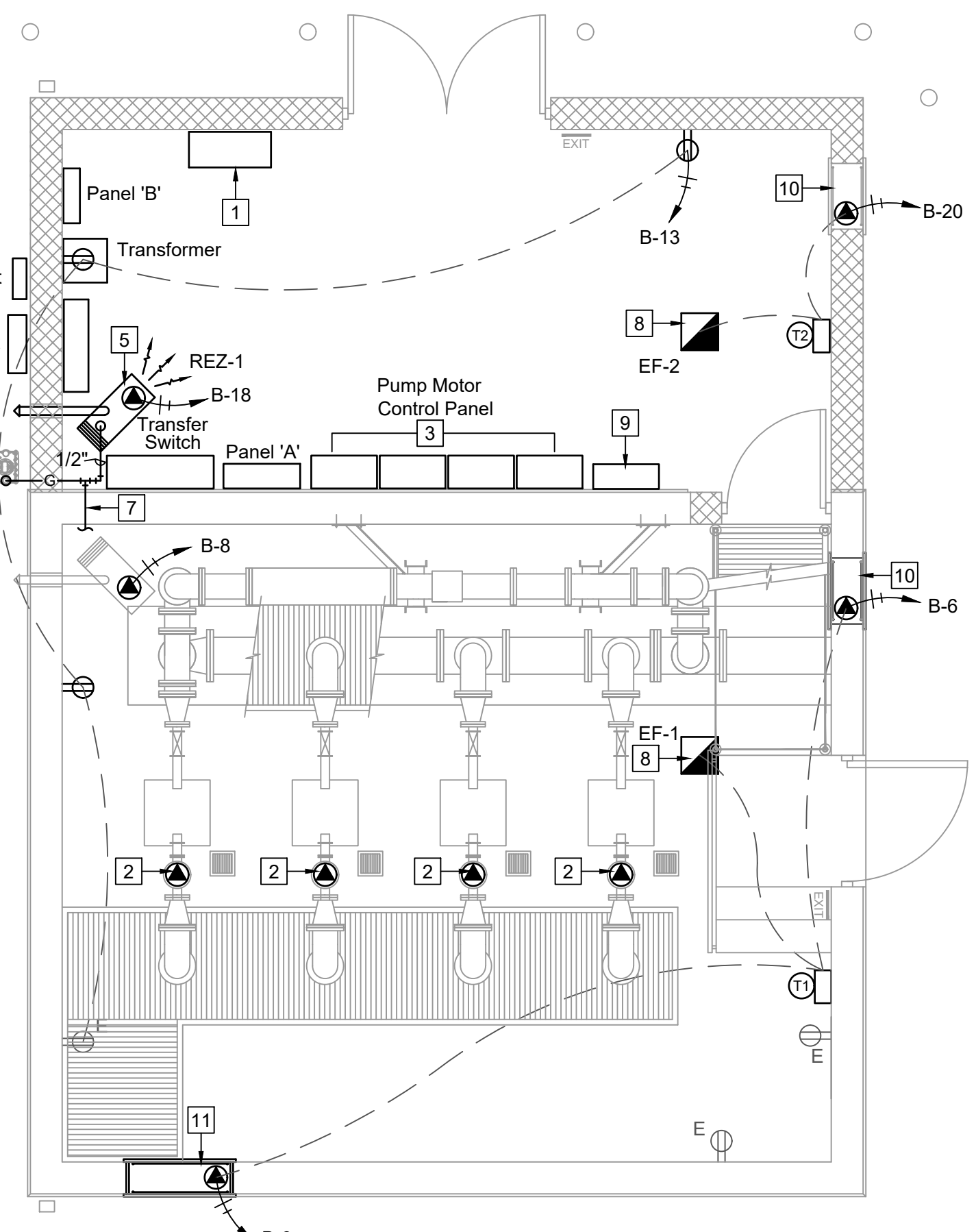
1. WIRED TO 120V 5A CONTROLLERS/TSTAT
2. WIRED TO LOUVER w/ MOTORIZED DAMPER
3. GALVANIZED STEEL SLOPED ROOF CURB

4. GRAVITY BACKDRAFT DAMPER
5. HINGED BASE



- ### KEY NOTES - LIGHTING/MECH/POWER
- Existing relocated water metering cabinet
 - Existing pump motor to be refed
 - (4) Pump motor control cabinets provided by pump supplier, EC to wire
 - Connect new light fixture to existing exterior lighting circuit
 - Reznor unit heater with manufacturer ceiling suspension system kit, install blocking as required. Install 4"Ø concentric vent thru wall per manf'r recommendations a minimum of 10'-0" from any air inlets.
 - Relocated gas meter / service, coordinate with utility company
 - Branch gas piping to existing reznor unit heater
 - Roof mounted exhaust fan system
 - Relocated IT cabinet
 - Pottorff #BD-150 24"x24" louver w/motorized damper system, EC to wire to exhaust fan and controller/stat per manufacturer recommendations
 - Pottorff #BD-150 louver w/motorized damper system, field verify existing opening size. EC to wire to exhaust fan and controller/stat per manufacturer recommendations

LEGEND	
	EXISTING TO BE REMOVED
	LED LINEAR FIXTURE
	EMERGENCY LIGHTING REMOTE HEAD
	ILLUMINATED EXIT SIGN w/EMERG HEADS
	EXHAUST FAN - ROOF MOUNTED
	SWITCH - OCCUPANCY SENSOR
	DUPLEX RECEPTACLE
	POWER CONNECTION
	GAS PIPING



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

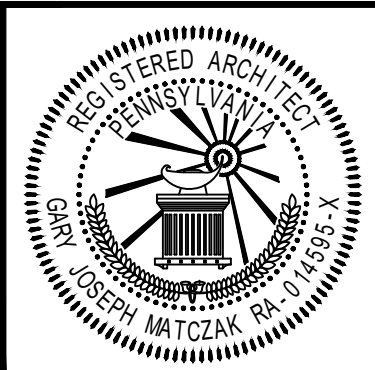
ALL ELECTRICAL MATERIAL, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABELED AND LISTED BY A CERTIFIED TESTING LABORATORY OR AGENCY.

- ### ELEC / MECH GENERAL NOTES
- #### GENERAL NOTES
- The drawings are partly diagrammatic and are not intended to show in detail all features of the work. All work shall be done in accordance with these specifications, the drawings & local governing codes.
 - All work shall be executed and inspected in strict accordance with all local codes and/or state codes, laws, ordinances, rules and regulations applicable to this particular class of work, and each contractor shall include in his price all applicable service charges, fees, permits, royalties, taxes and other similar costs in connection therewith.
- #### MECHANICAL NOTES
- This contractor shall examine al other specifications, drawings, and all features of building construction, which may affect his work and shall be governed by these other specifications, including the general conditions and particular instructions to all bidders and suppliers.
 - All work shall be executed and inspected in strict accordance with all local codes and/or state codes, laws, ordinances, rules and regulations applicable to this particular class of work, and each contractor shall include in his price all applicable service charges, fees, permits, royalties, taxes and other similar costs in connection therewith.
 - Prior to fabrication of ductwork, contractor shall examine and verify all conditions above and below the ceiling, which may interfere with the duct system and notify the Architect of any conflict encountered. Contractor shall provide all offsets etc., which may be required, without additional cost to the Owner.
 - All sheet metal duct construction shall be in strict accordance with "SMACNA" low-pressure duct construction standards.
 - All ducts shall be supported with 1" wide, 22-gauge galvanized steel bands at 8' to 10' spacing and at all fittings.
 - Contractor shall coordinate location of all supply and return air registers, ducts, grilles, and diffusers with lighting and ceiling patterns.
 - Thermostats to be mounted at 48" maximum above the floor.
- #### PIPING INSTALLATION
- All piping shall be run concealed in the finished portions and exposed in the unfinished portions as required.
 - All pipes shall be cut accurately to measurements established at the building and shall be placed without springing, forcing, excessive cutting or weakening of the building structure. All pipes shall be installed in a manner permitting proper drainage and free expansion and contraction. All burrs in pipes shall be removed by reaming. All changes in direction shall be made with fittings. Cap or plug all open ends of piping and equipment during construction to keep dirt and foreign material out of the systems. Clean all piping before erection and if necessary, clean after erection to remove dirt and foreign material.
 - Hangers, anchors and supports shall be of metal or other material of sufficient strength to support the piping and its contents.
- #### FLASHING
- All pipe penetrations thru floor shall be sealed to be watertight.
- #### GAS PIPING
- Gas piping shall be schedule 40 black steel conforming to ASTM A120 of the sizes indicated, with black malleable screwed fittings conforming to AGA B16.3. Install brass gas shutoff cocks (Lunkenhiemer #456 flat head #150) where shown or required.
- #### ELECTRICAL NOTES
- #### WIRING DEVICES
- Local light switches shall be 20A, 120V, AC specification grade, with grounding terminal.
 - Duplex receptacles shall be 20A, 125V, 2 pole, 3 wire grounding.
 - Special purpose receptacles, if required, to be verified prior to installation. Coordinate the proper NEMA configuration with the equipment to be served.
 - Outdoor weatherproof duplex receptacles shall have integral ground fault circuit interrupter (GFCI) protection and be 20A, 125V, 2 pole, 3 wire grounding. Covers shall be single gang, latching type, die cast aluminum, vertical mounting and UL listed for wet locations while in use.
- #### WIRE & CABLE
- Wire and cable for branch circuits and feeders, 600 volt and below shall be 90°C, 600V, Type THHN/THWN, Copper only.
 - Where wire size is not indicated, ampacity ratings of 60°C for wire 100A and below, and 75°C for wire above 100A to be used.
 - Wiring for power and lighting branch circuits shall be #12 minimum for circuits less than 125 feet and size #10 minimum shall be used for circuits 125 feet or greater.
 - Wire sizes #10 and smaller shall be solid or stranded. Wire sizes #8 or larger shall be stranded.
 - Control wiring shall be #14 stranded THWN copper. All control wiring to be terminated with fork type "Sta-Kon" type connectors.
- #### CONDUIT - EMT
- Conduits shall be continuous and secured to all boxes in such a manner that each conduit system shall be electrically continuous from the point of service to all device boxes. Conduits shall be supported in accordance with the National Electrical Code. Terminals of all conduits shall be furnished with locknuts and bushings. Plug ends of each conduit with an approved cap to prevent the entrance of foreign materials during construction.
 - Conduits shall be 3/4" Trade size, minimum, unless noted on the drawings. Where sizes are not shown, conduits shall be as required to accommodate the number and type of conductors in accordance with the National Electrical Code wiring tables, but shall not be smaller than 3/4".
 - Cold-rolled steel double set screw fittings shall be used for all EMT conduits.
 - Actual routing of conduits shall be installed to suit the various field conditions. Any field changes necessary to conceal conduit or to avoid work of other trades shall be made without additional expense to the Owner.
 - A separation of 6" minimum is required between conduits and hot water piping, steam piping and similar system piping.
 - Contractor shall utilize boxes, fittings and mounting accessories appropriate for the specific conduit system(s) installed as recommended by the conduit manufacturer.
 - Install exposed conduits parallel to, or at right angles to building structural members. vertical runs shall be plumb.
 - Empty conduits shall have #12 pullwires installed, with labels identifying the conduit's origin and destination.

BIU/MAI RELEASED
ALL WORK MUST COMPLY
WITH UCC REGULATIONS
REVIEWED BY TLH 000888
DATE: 06/10/2025 *Angie S. Kuntz*

NOTE: THESE PLANS HAVE BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT.

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MECH/ELEC PLANS NOTES SCHEDULES RISER DIAGRAM		
NO.	DATE	REVISION
ME		1
PROJECT NO.	2337	
DATE	APRIL 2025	