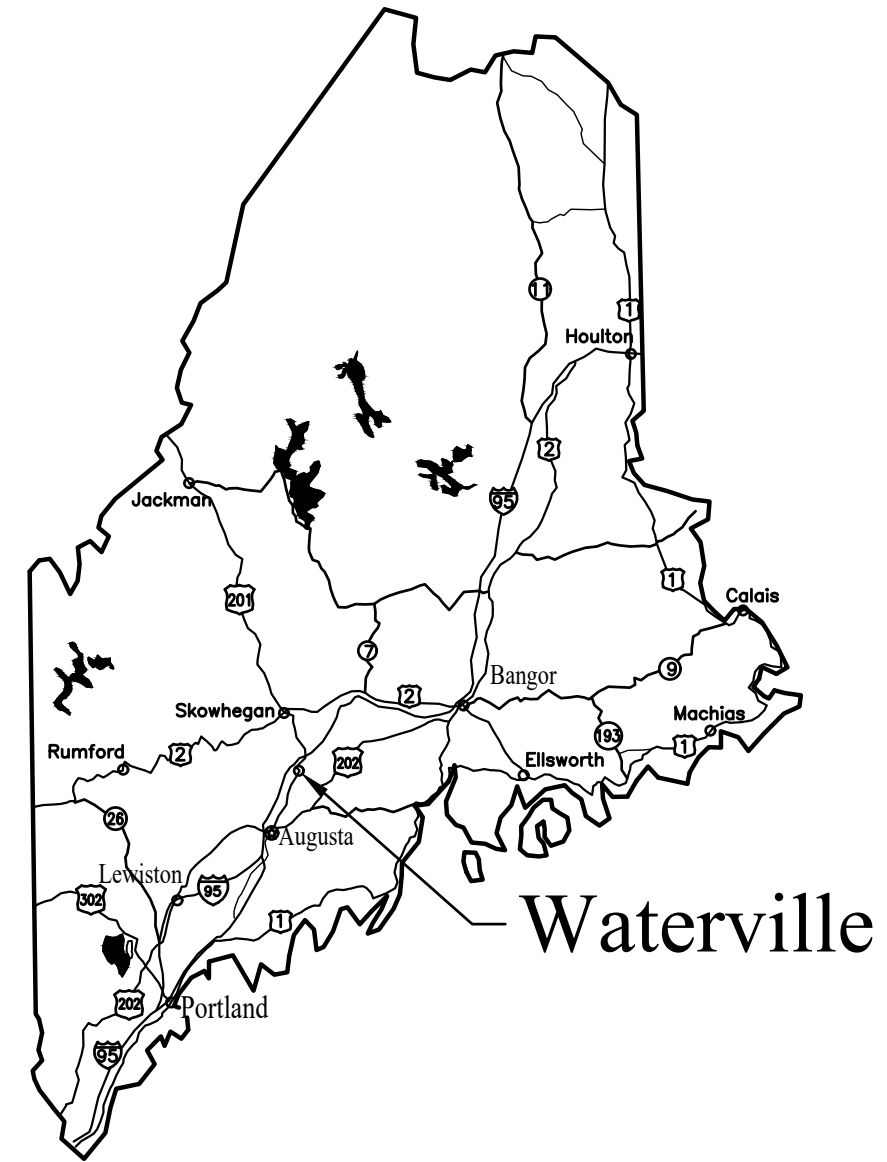
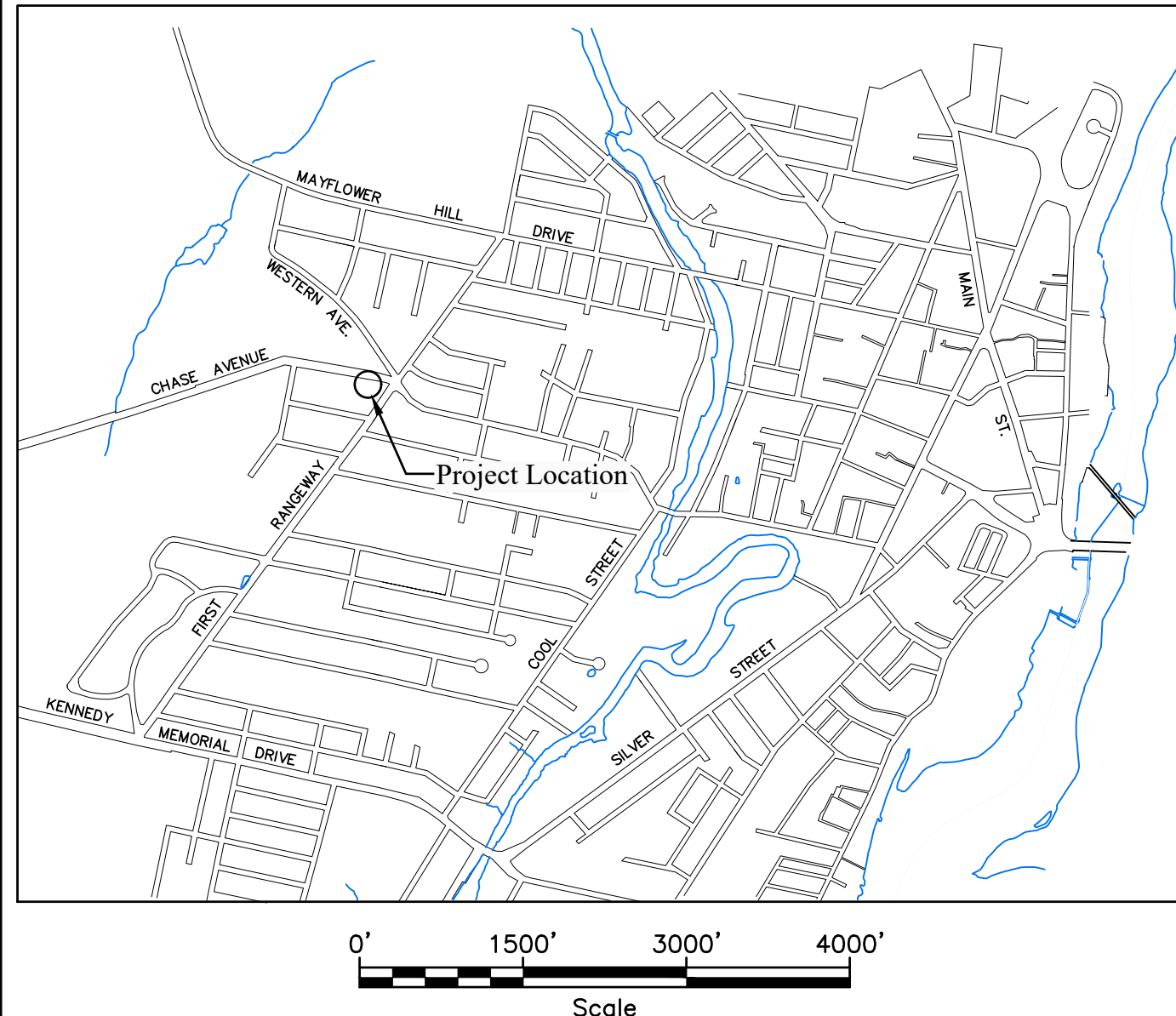


Project Location



Site Location



Drawing Index

- 1 C1 SITE PLANS & DETAILS
- 2 B1 BUILDING PLAN & DETAILS
- 3 B2 ALUMINUM PLATE & EXHAUST FAN DETAILS
- 4 P1 PIPING PLAN & DETAILS
- 5 E1 ELECTRICAL PLANS & DETAILS
- 6 E2 CONTROL PANEL SCHEMATICS

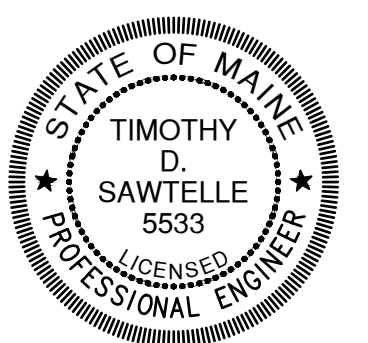


KWD Project #28210
DWSRF Project #2026-21

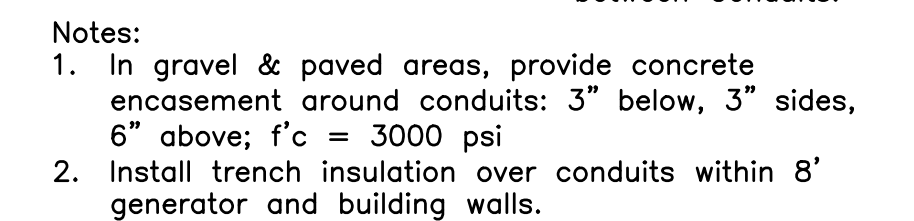
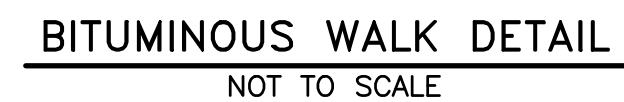
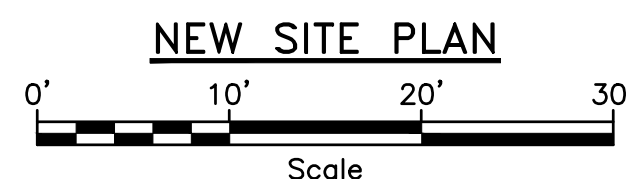
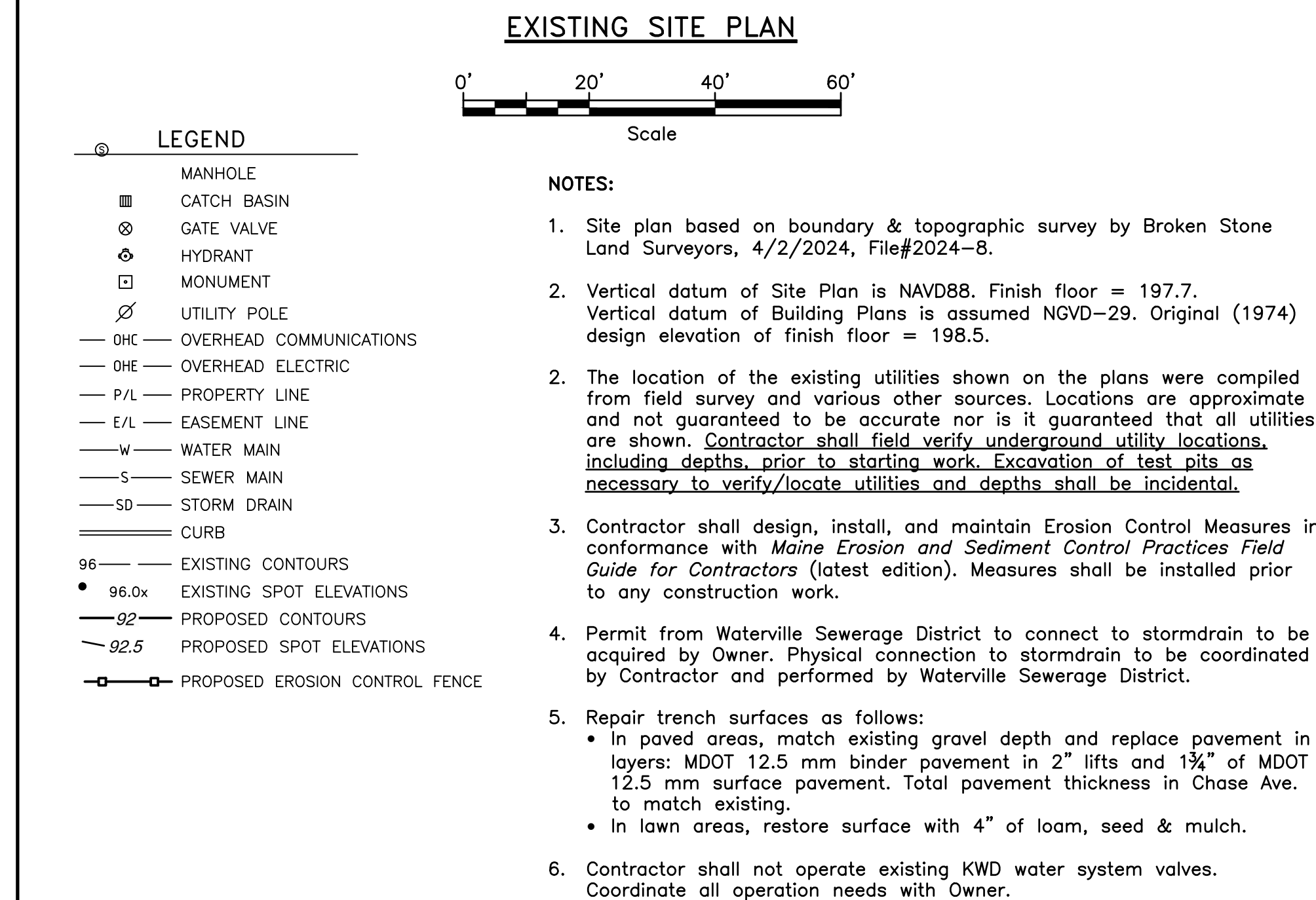
Project Drawings for the Chase Avenue Pump Station Upgrades Project for the Kennebec Water District Waterville, Maine

DIRIGO ENGINEERING

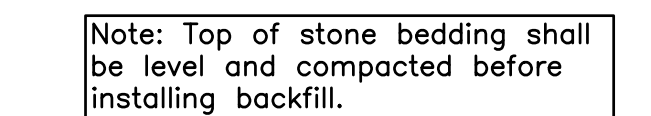
2 Dirigo Drive Fairfield, Maine 04937



DIRIGO ENGINEERING
Timothy D. Sawtelle
Project Engineer Date 1/26/26

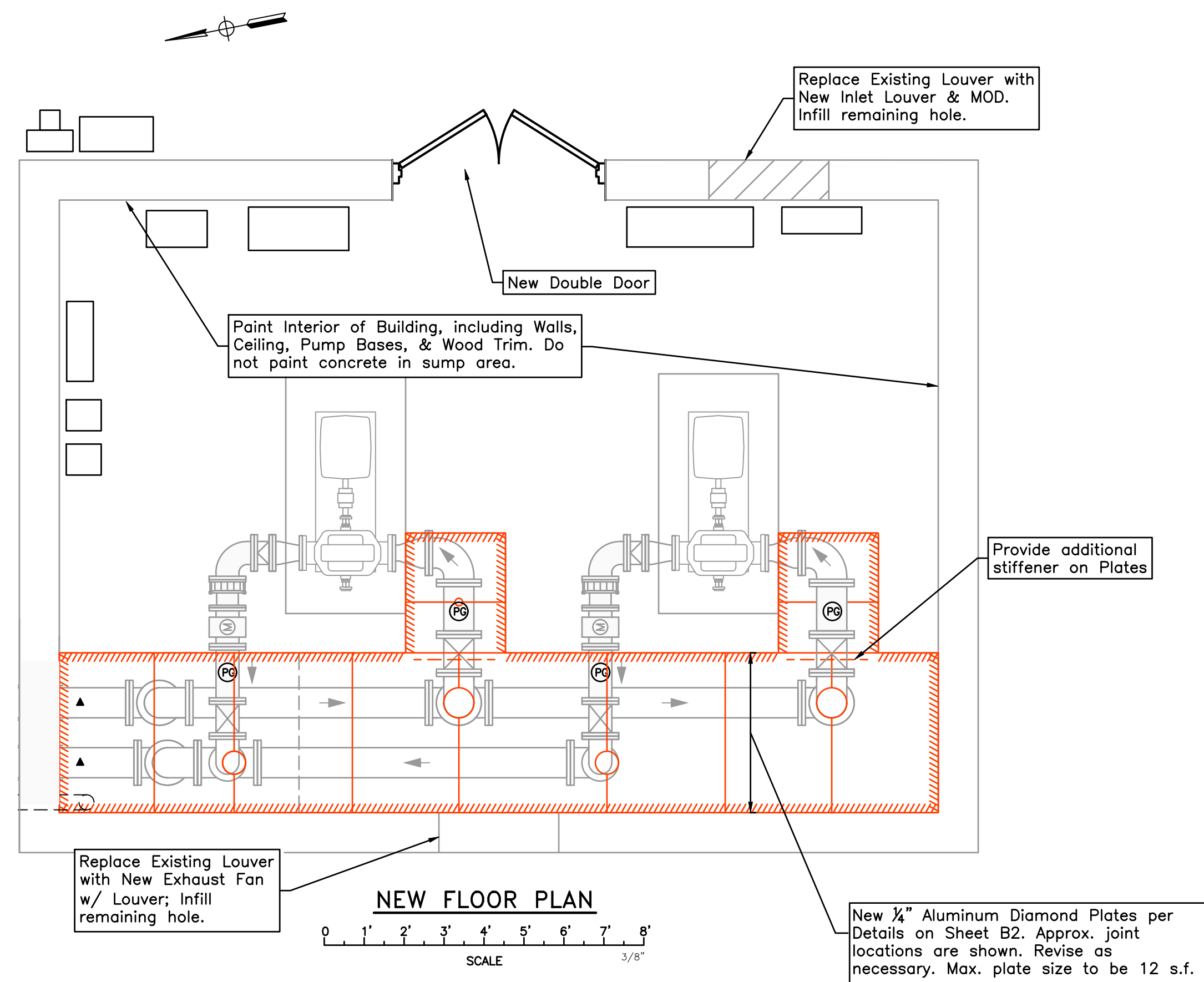
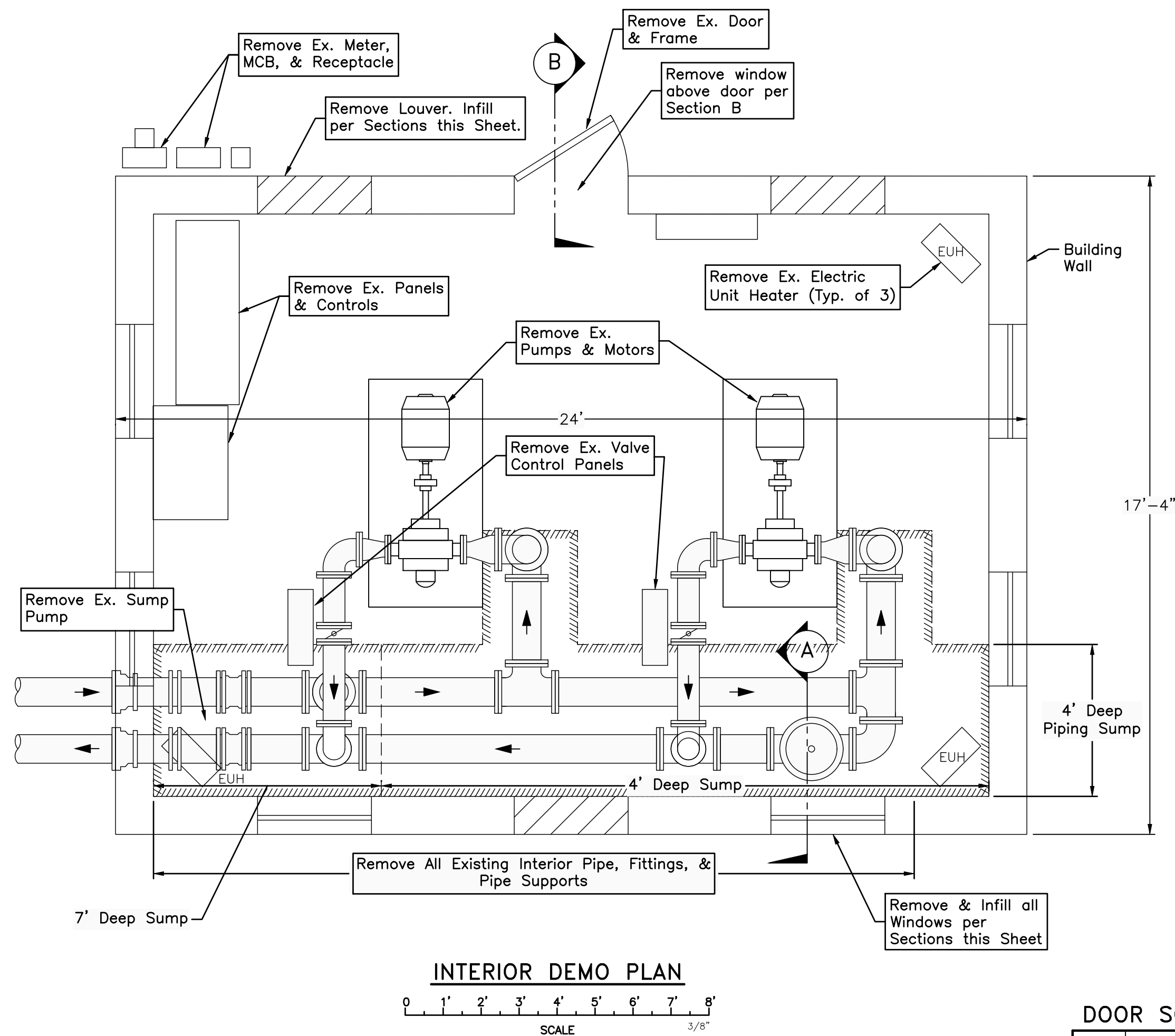


ELECTRICAL CONDUIT TRENCH DETAIL
NOT TO SCALE



SUMP DRAIN TRENCH DETAIL
NOT TO SCALE

				KENNEBEC WATER DISTRICT WATERVILLE, MAINE	
NO.	REVISIONS	DATE			
BID SET	VERT. DATUM	See Notes		CHASE AVE. PUMP STATION UPGRADES PROJECT	
	DATE:	1/26/26			
	DRAWN BY:	RJB		SITE PLANS & DETAILS	
	CHECKED:				
	APPROVED:				
	FIELD BK:	#			
FILE:	A Chase Ave Booster Site		SHEET 1 OF 6		
PROJECT:	#29706		C1		



DOOR SCHEDULE

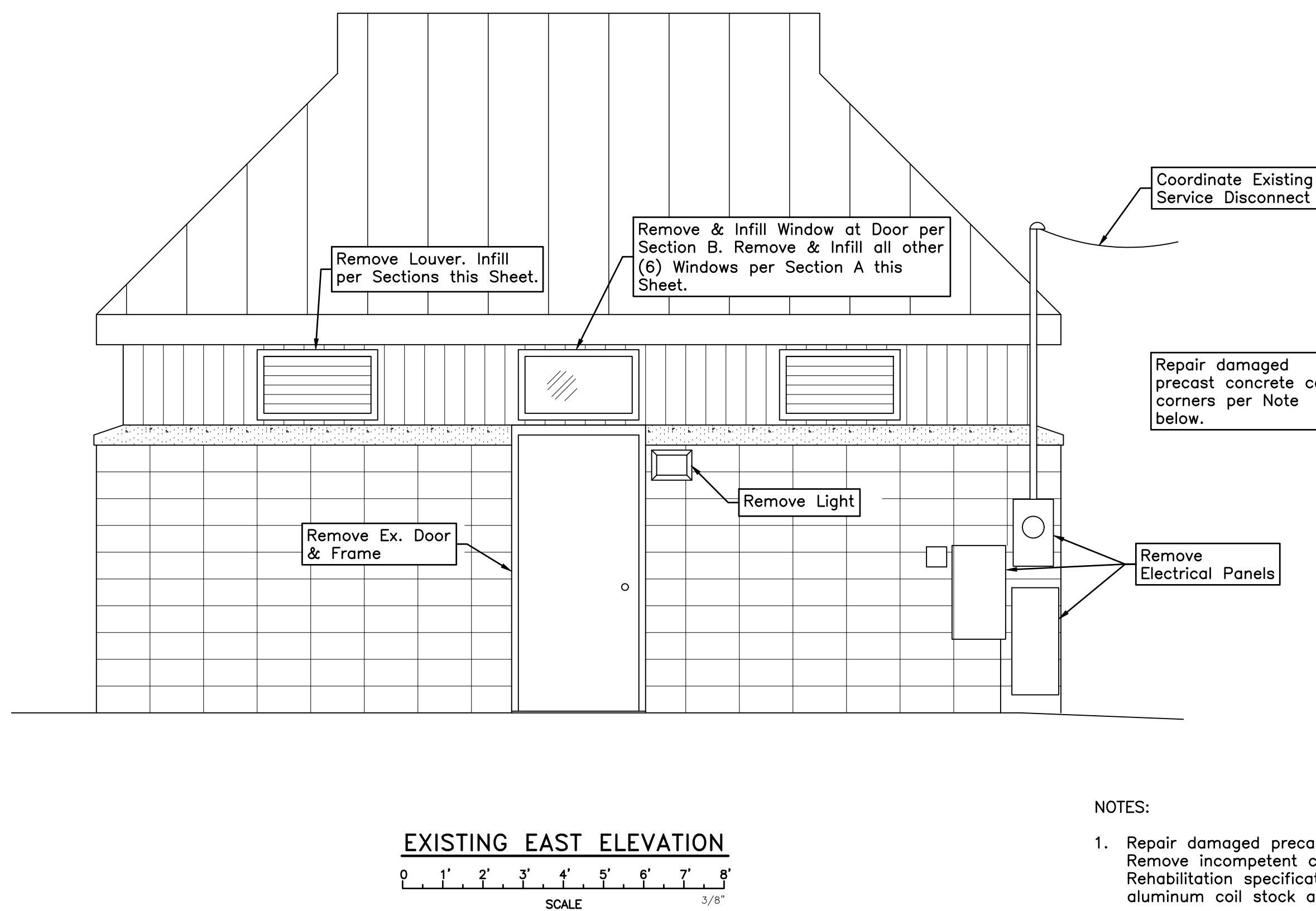
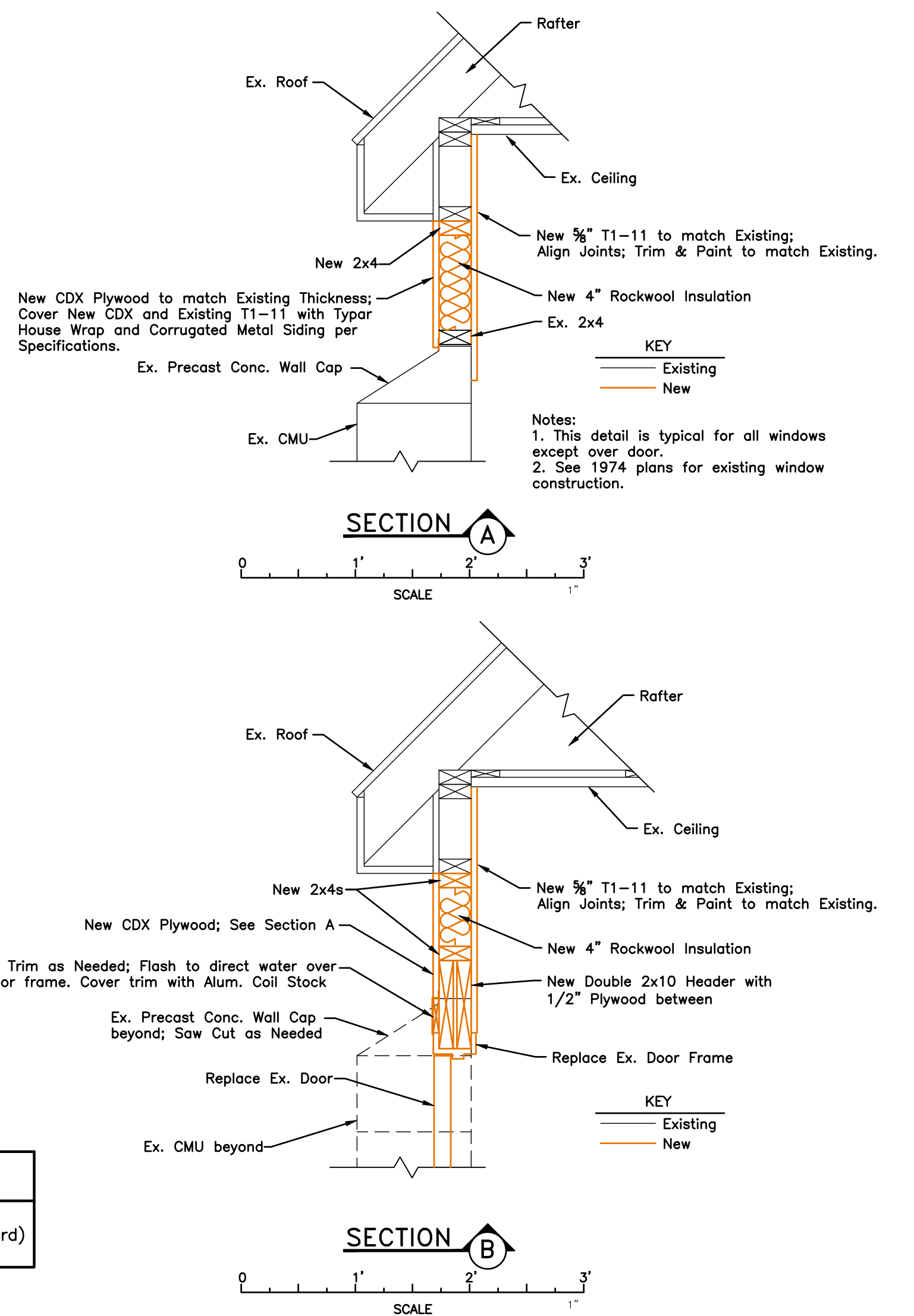
ITEM	NO.	SIZE	CONSTRUCTION	NOTES	WEATHER-STRIPPING	THRESHOLD	LOCKSET
D1	1	5'-0" x 6'-8" Double Door	1 3/4" Thick Steel Flush Insulated	KP, CSO	YES	YES-ADA	Mortised Lockset with Lever Handles; Deadbolt Lock (Key Outside, Thumb Latch Inside, Match Owner's Key Standard) 2nd Door shall have Sliding Lock Rods at Jamb & Sill

DOOR NOTES:

- Door shall have wrap-around steel frame appropriate for wall thickness.
- Provide heavy duty latch guard.
- Provide door contacts for intrusion alarm.

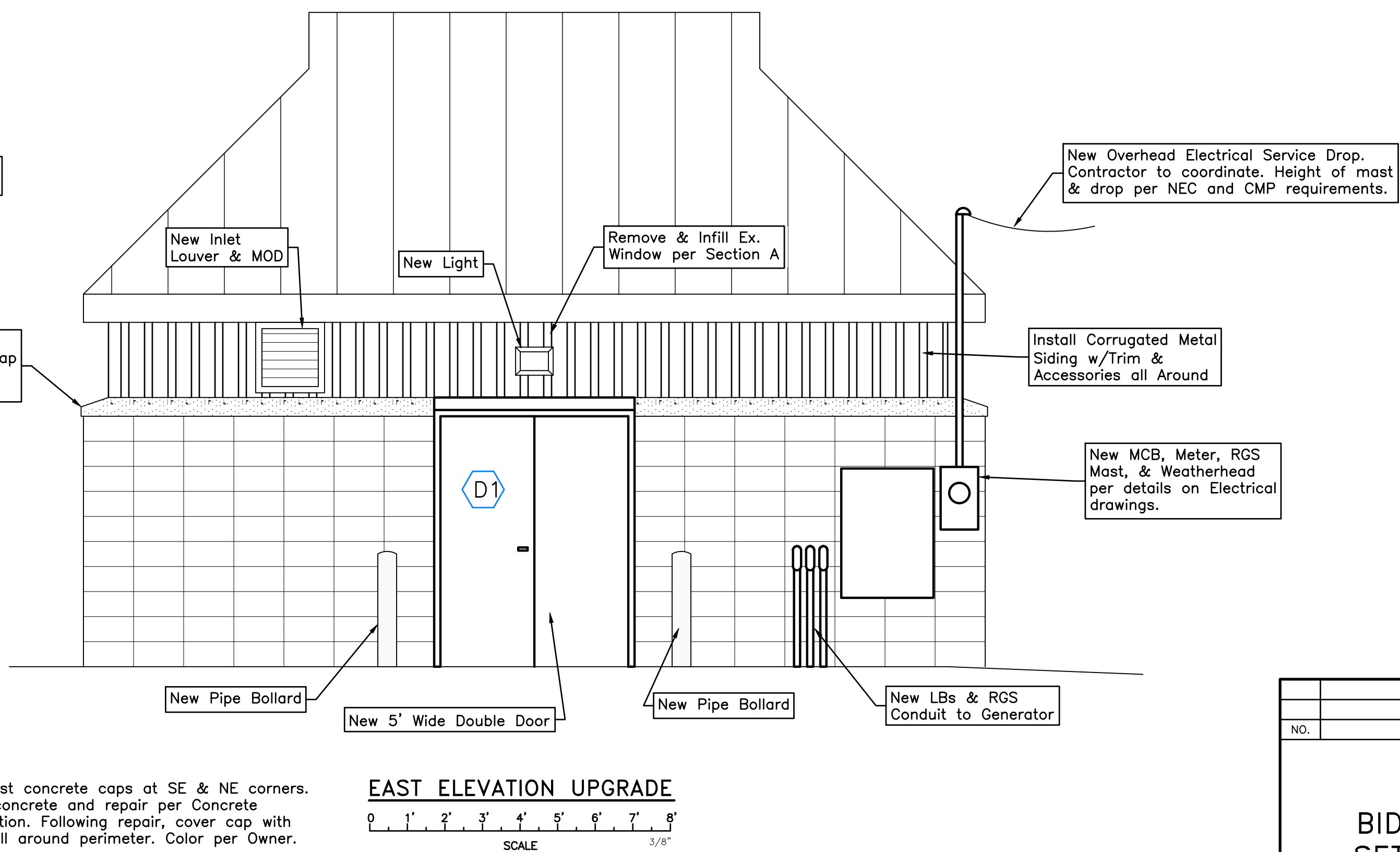
DOOR NOTES KEY:

- CSO Closer w/Stay-Open Feature
KP Kickplate (Satin Chrome)



NOTES:

- Repair damaged precast concrete caps at SE & NE corners. Remove incompetent concrete and repair per Concrete Rehabilitation specification. Following repair, cover cap with aluminum coil stock all around perimeter. Color per Owner.
- Where equipment is removed or relocated, patch old holes in blocks.



Note: On the original full size drawing, this dimension is 6"

REVISIONS				DATE	
NO.	DESCRIPTION	DATE	BY	DATE	BY
1	VERT. DATUM	See Note on Sheet 1			
2	DATE:	1/26/26			
3	DRAWN BY:	RJB			
4	CHECKED:				
5	APPROVED:				
6	FIELD BK:	#			
7	FILE:	B Chase Ave Booster Bldg			
8	PROJECT:	#29706			

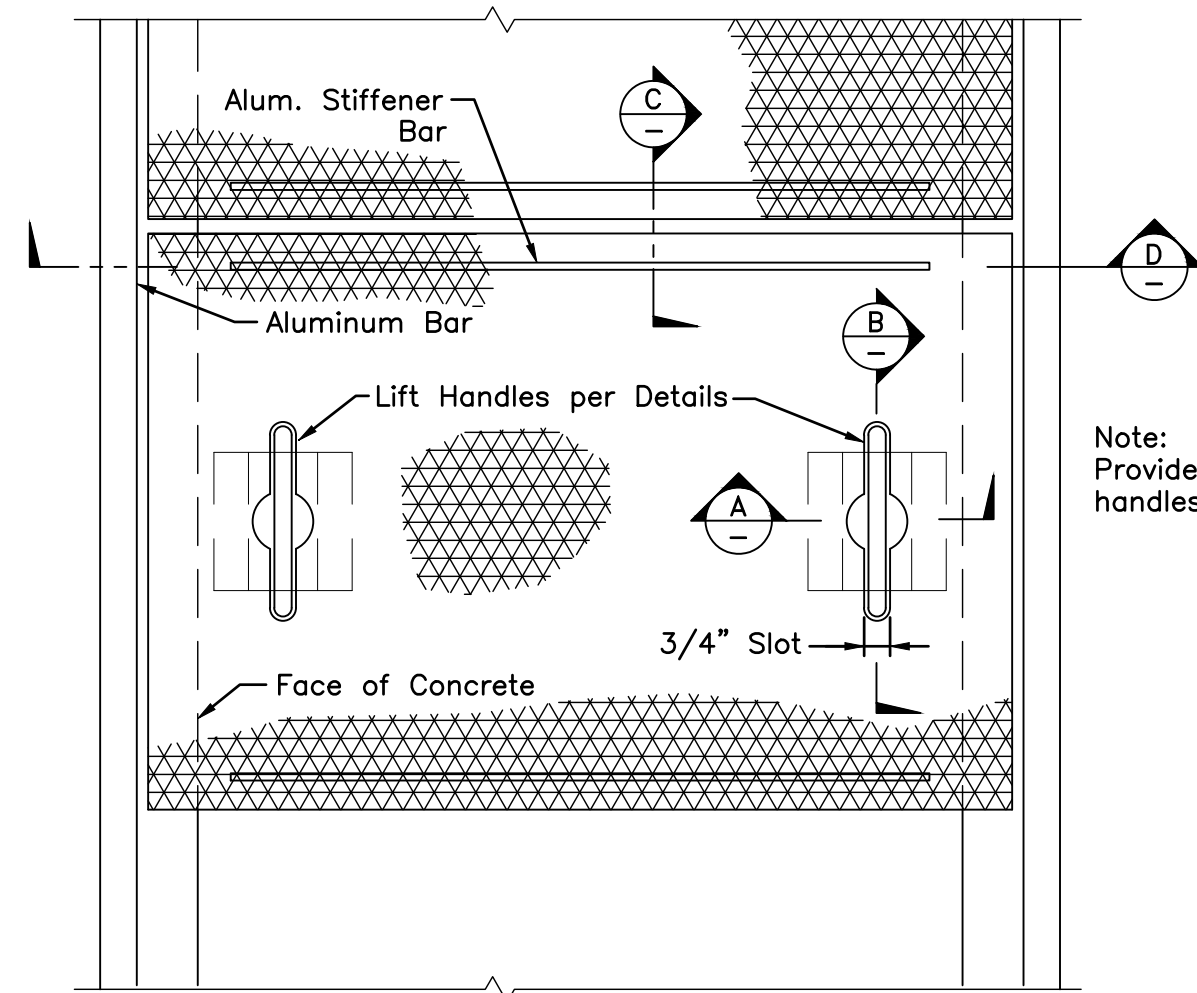
KENNEBEC WATER DISTRICT
WATERVILLE, MAINE

CHASE AVE. PUMP STATION
UPGRADES PROJECT

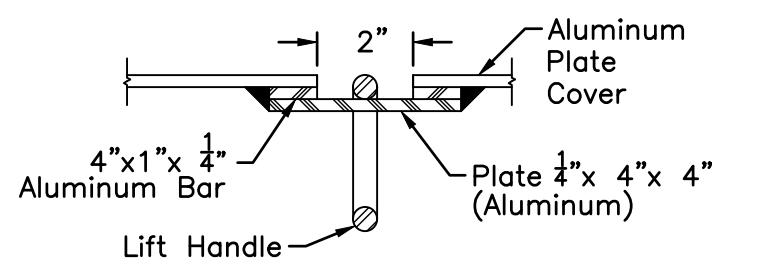
INTERIOR DEMO PLAN, FLOOR PLAN,
& DETAILS

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

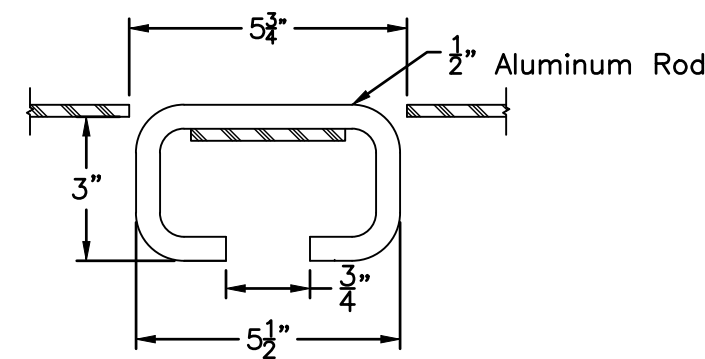
SHEET
2 OF 6
B1



TYPICAL ALUMINUM PLATE – PLAN VIEW
NOT TO SCALE



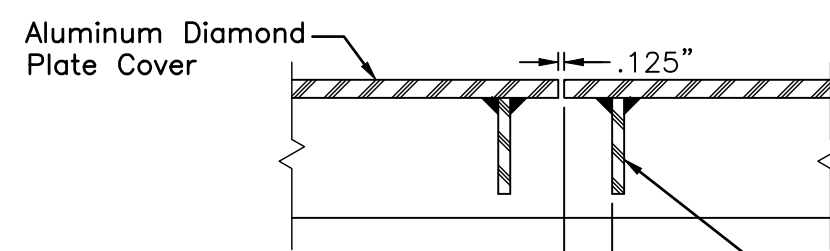
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

LIFT HANDLE DETAILS
NOT TO SCALE

Note:
Provide minimum of 2 lift
handles for each plate section.

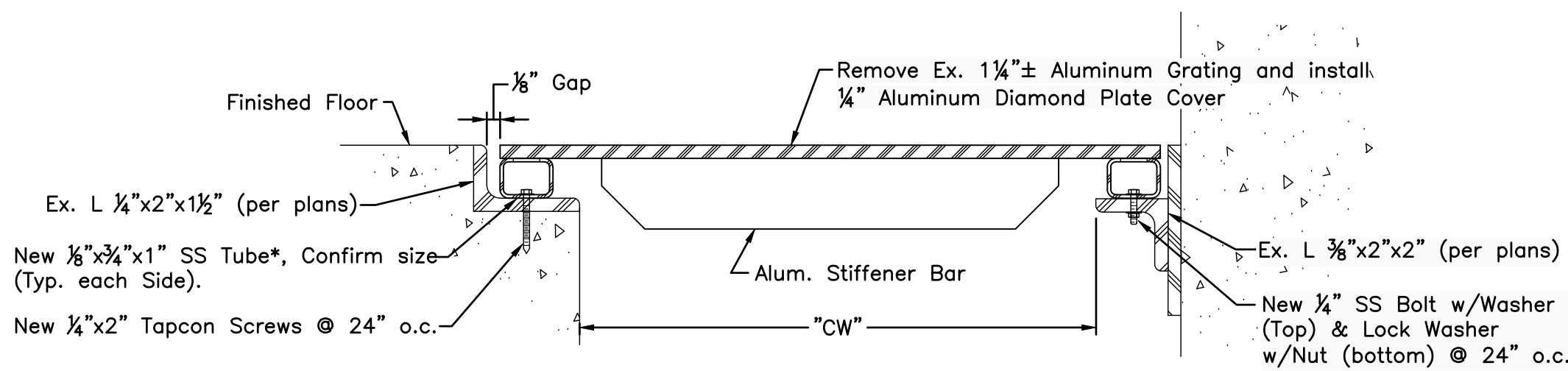


DETAIL AT JOINT C-C
NOT TO SCALE

Channel Width "CW"	Stiffener Bar Size (UNO)
Less Than 2'-0"	1/4" x 1"
2'-0" To 4'-0"	1/4" x 2 1/2"

1" Typ.; Wider at Penetrations to avoid Pipes

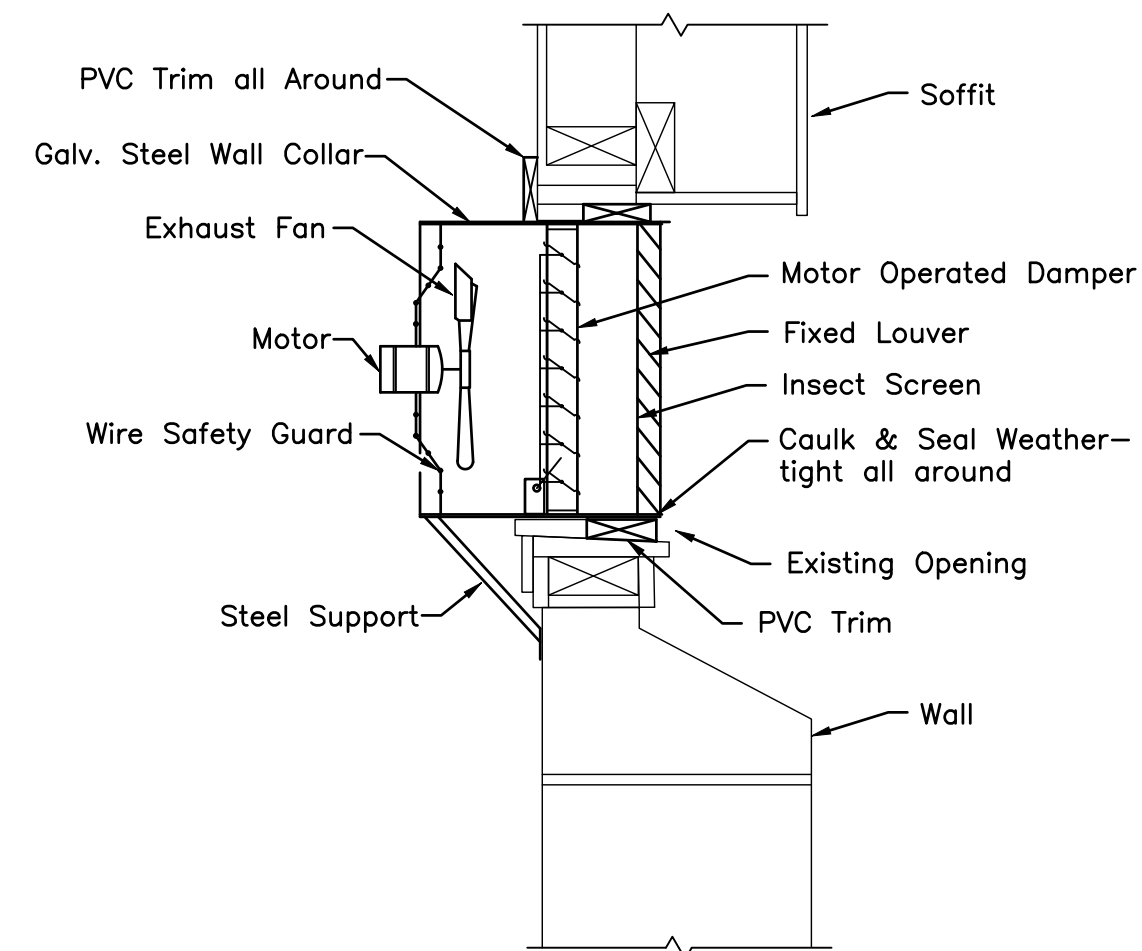
Aluminum Stiffener Bar at Unsupported Edges of
Plates and at 2'-4" o.c. (Welded) see table below.
(Not required on end of runs)



SECTION D-D
NOT TO SCALE

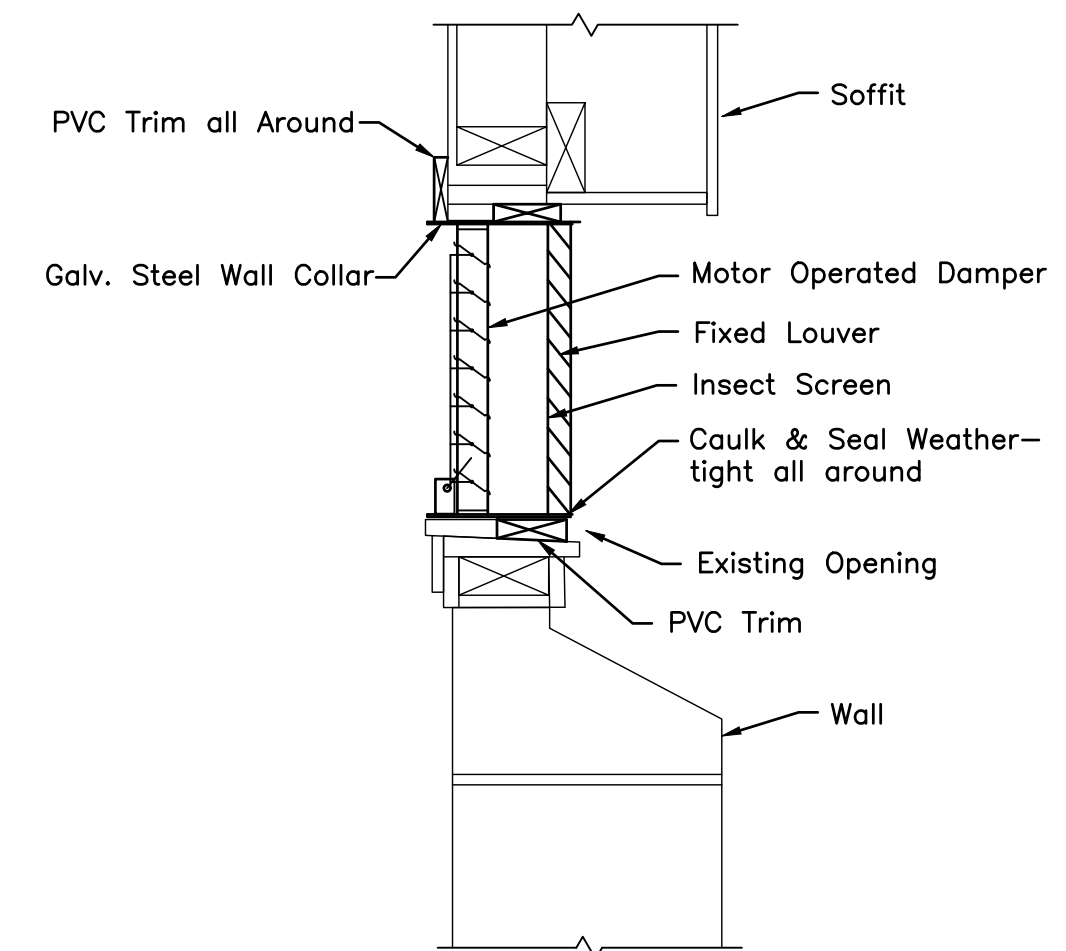
ALUMINUM PLATE DETAILS
NOT TO SCALE

*In lieu of new SS Tube, Contractor
may weld aluminum spacers to
bottom of grating. Submit design to
Engineer for approval.



EXHAUST FAN DETAIL
NOT TO SCALE

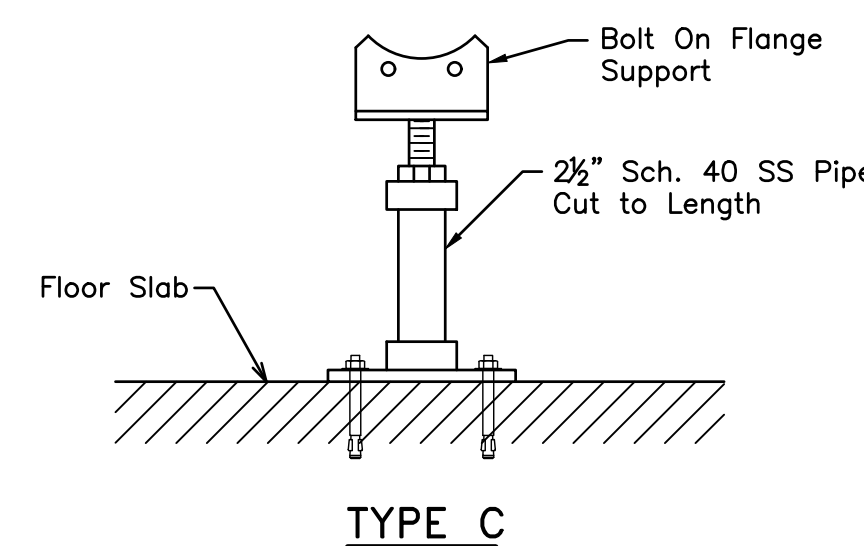
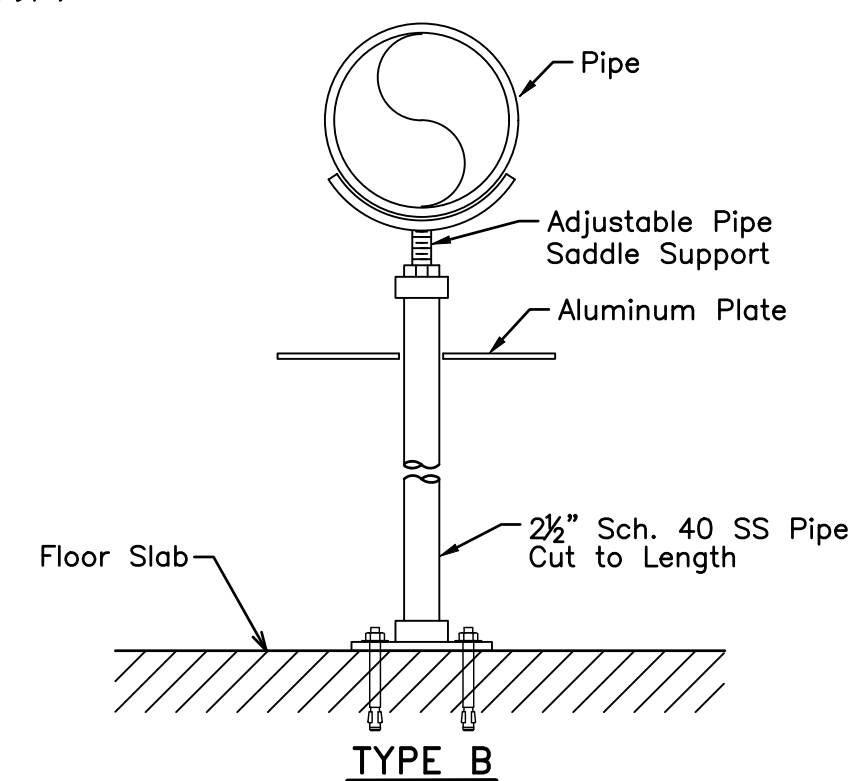
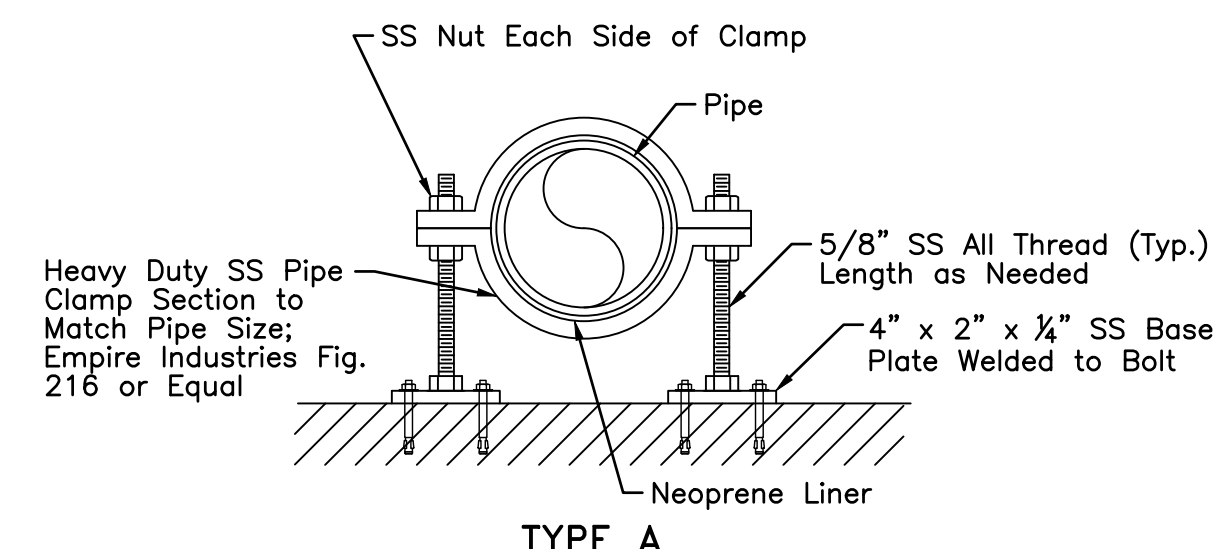
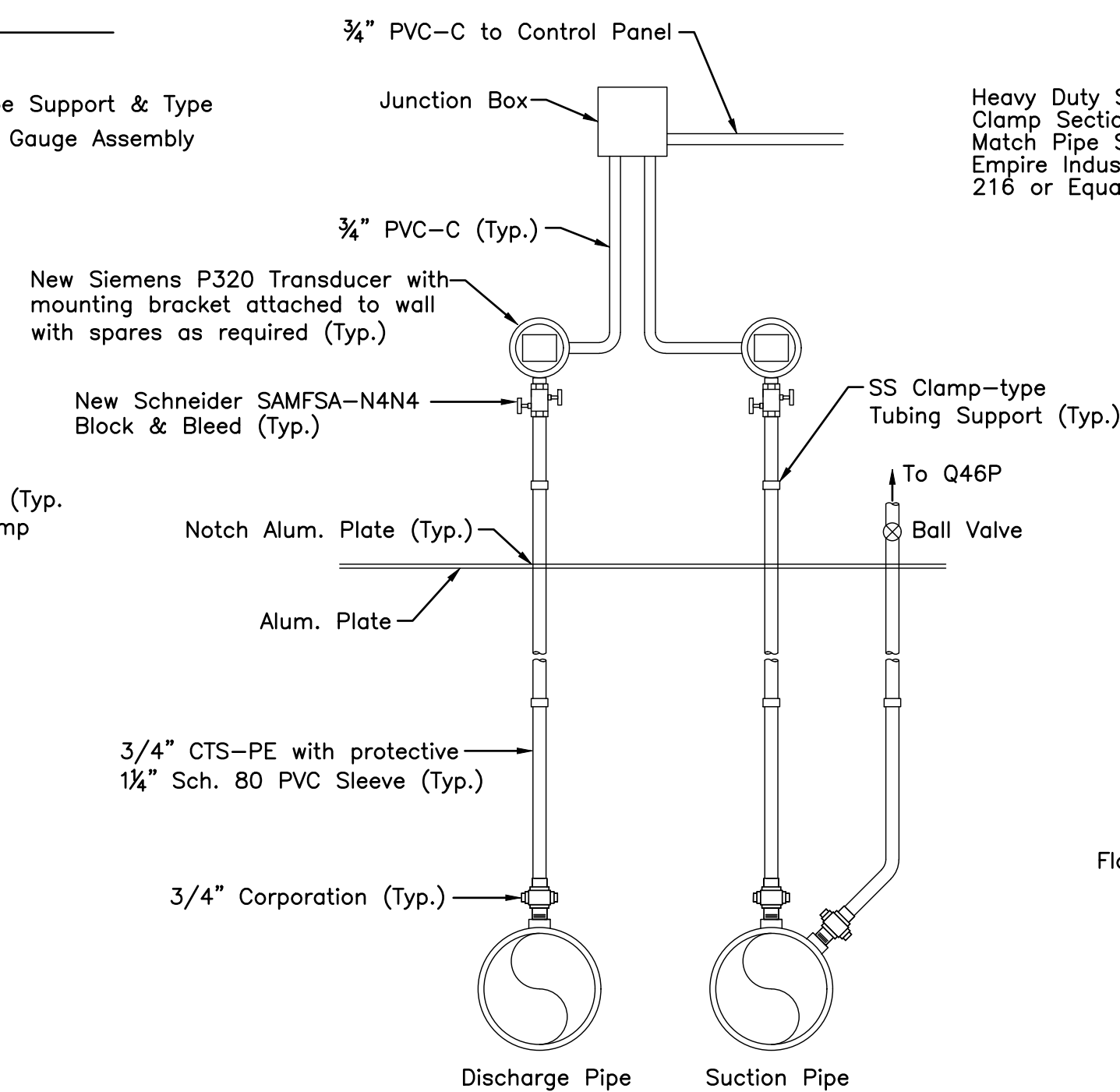
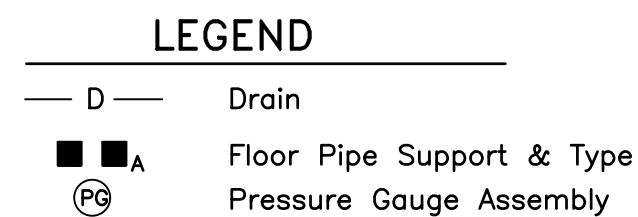
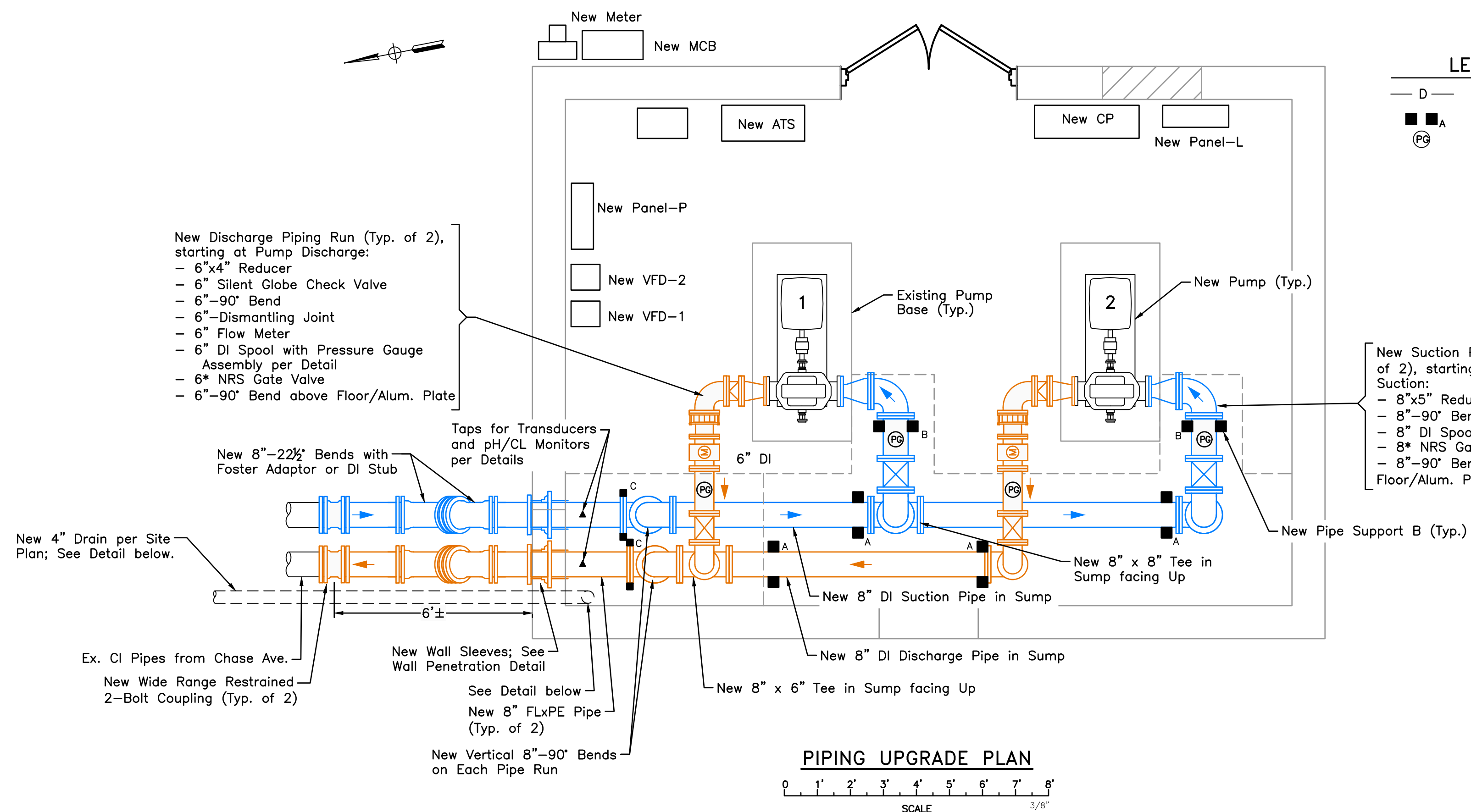
Note:
Remove existing Fan/Louver assembly and install New Exhaust
Fan/Louver assembly. Confirm opening sizes prior to ordering.
Provide trim and caulk as needed for weathertight seal.



INLET LOUVER DETAIL
NOT TO SCALE

Note: On the original full size drawing, this dimension is 6"

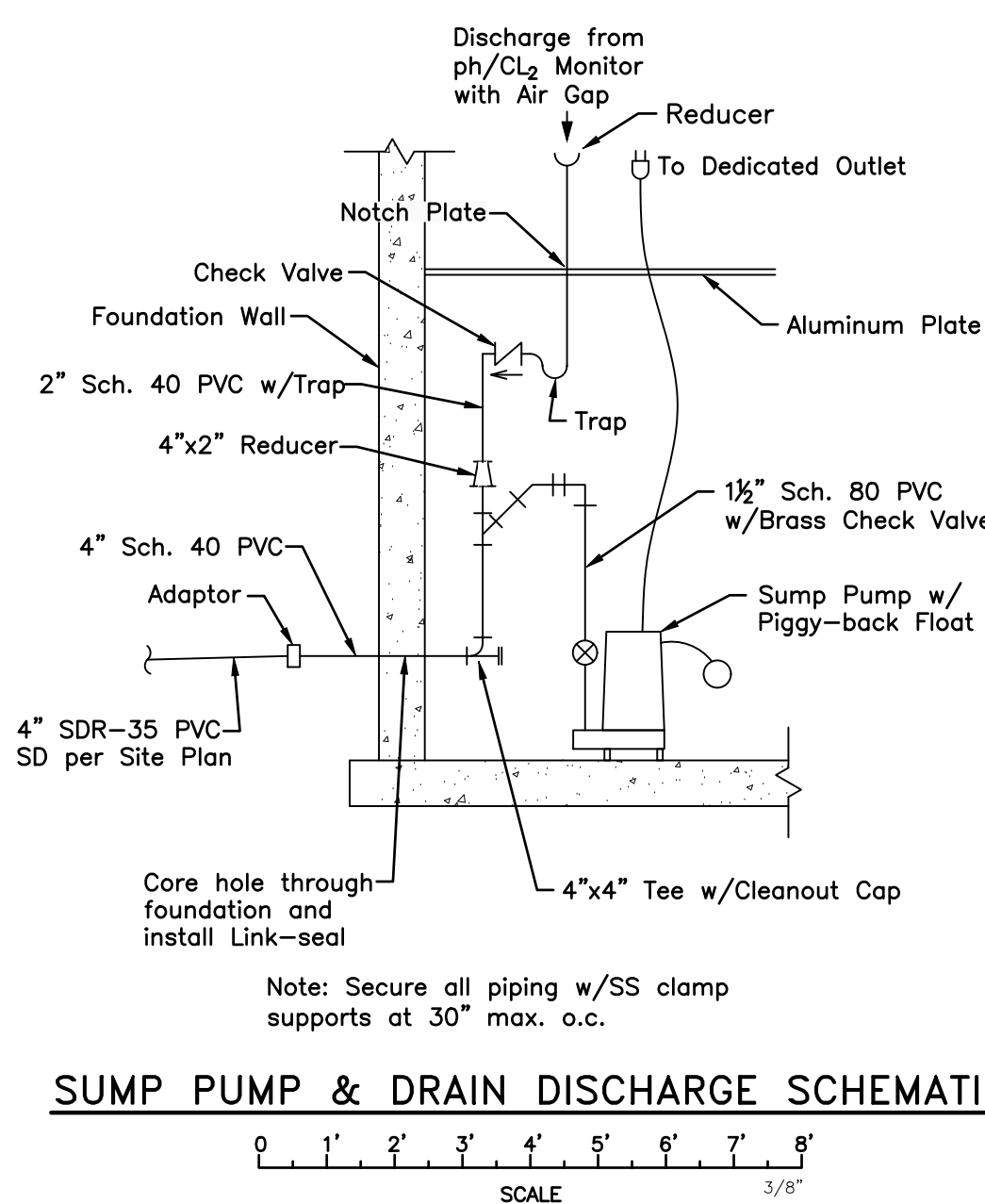
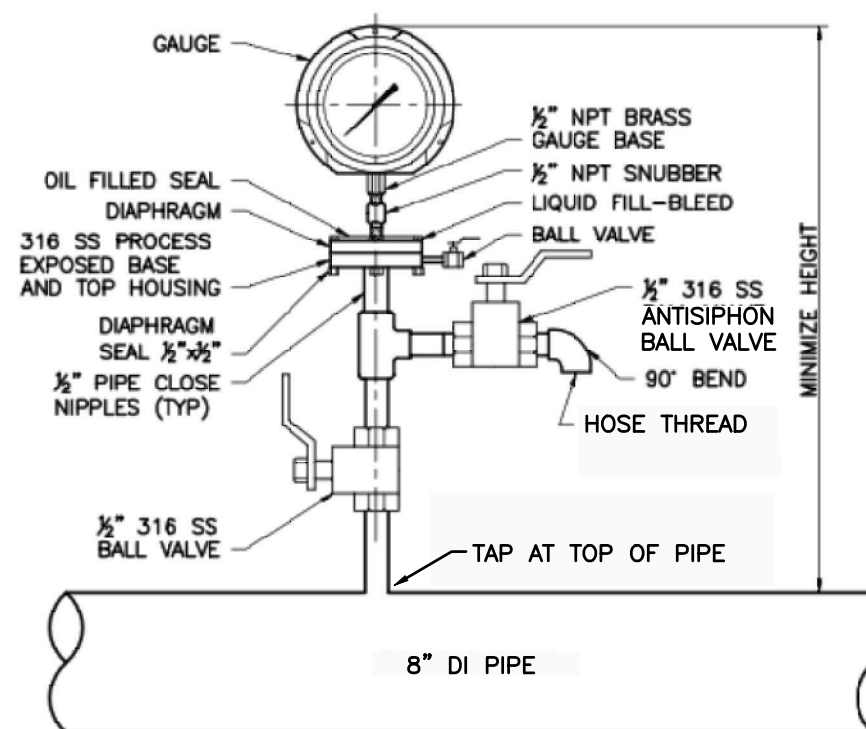
				KENNEBEC WATER DISTRICT WATERVILLE, MAINE	
BID SET	NO.	REVISIONS		DATE	CHASE AVE. PUMP STATION UPGRADES PROJECT
		VERT. DATUM	See Note on Sheet 1		
		DATE:	1/26/26		
		DRAWN BY:	RJB		
		CHECKED:			
		APPROVED:			
		FIELD BK:	#		
		FILE:	B Chase Ave Booster Bldg		
		PROJECT:	#29706		
DIRIGO ENGINEERING 2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401					SHEET 3 OF 6 B2



- Notes:**
1. Install Pipe Supports as Shown on Plans.
 2. All support components shall be SS.
 3. Secure Base Plates to Floor/Wall with (2) 1/2" x 4" L SS Wedge-Lock Anchors each.

PIPE SUPPORT DETAILS

NOT TO SCALE

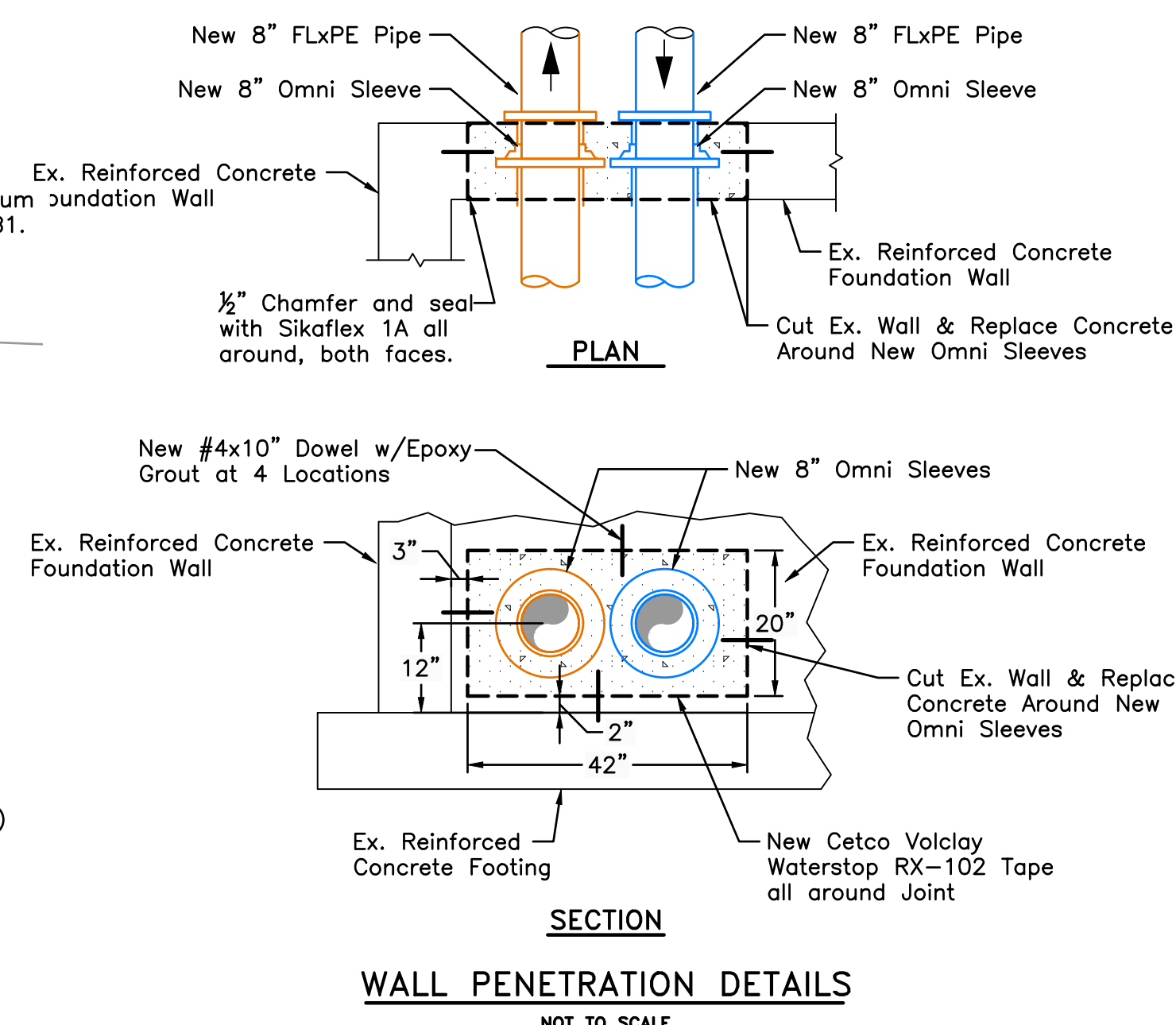
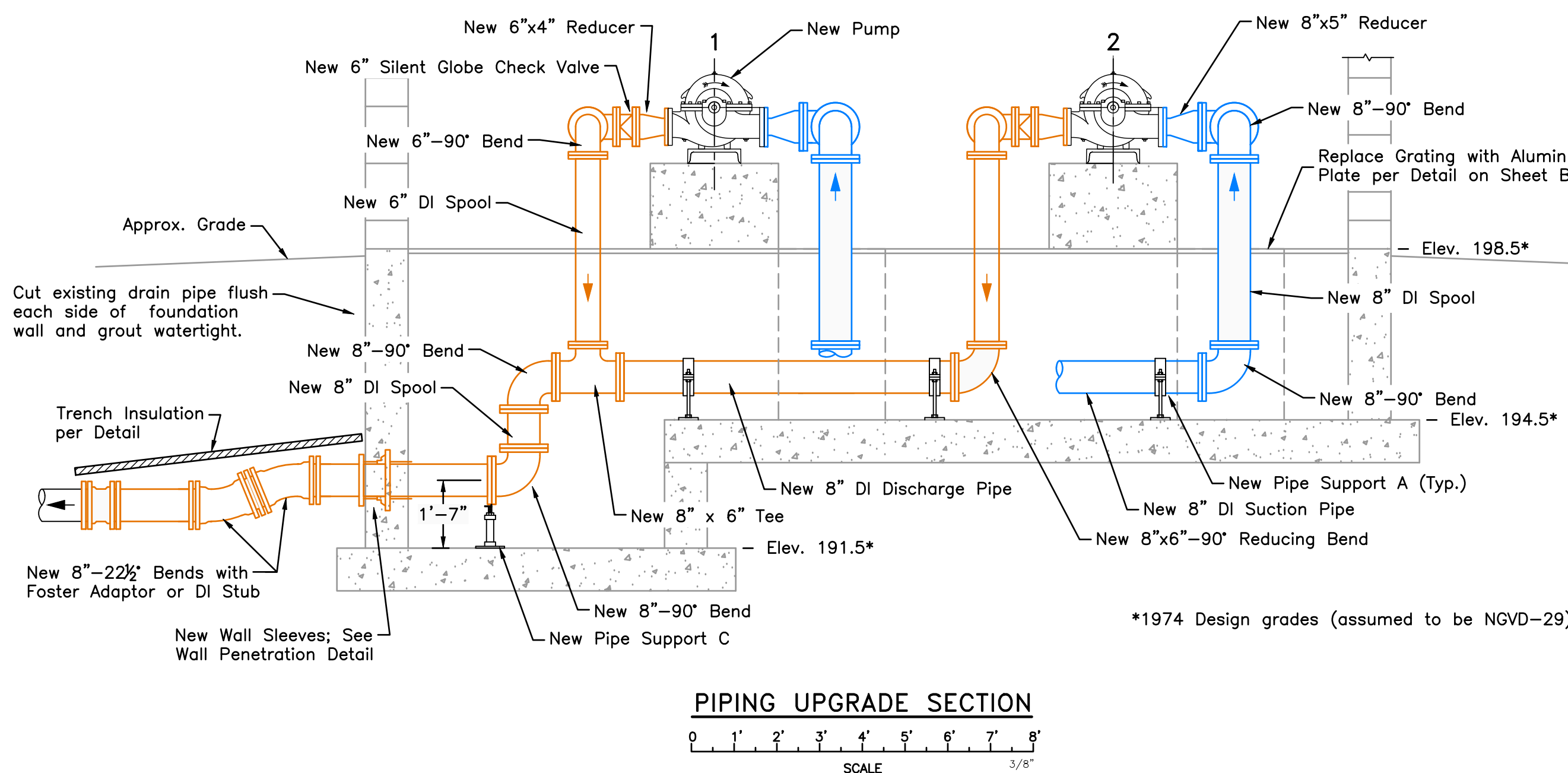


GENERAL NOTES:

1. Confirm dimensions and space requirements of all fittings and equipment prior to installation of pipes, conduits, etc. through foundations & walls.
2. Locations shown are conceptual; coordinate locations of all electrical, mechanical, plumbing, structural, etc. and verify with owner/engineer.
3. Coordinate power supply for all equipment.

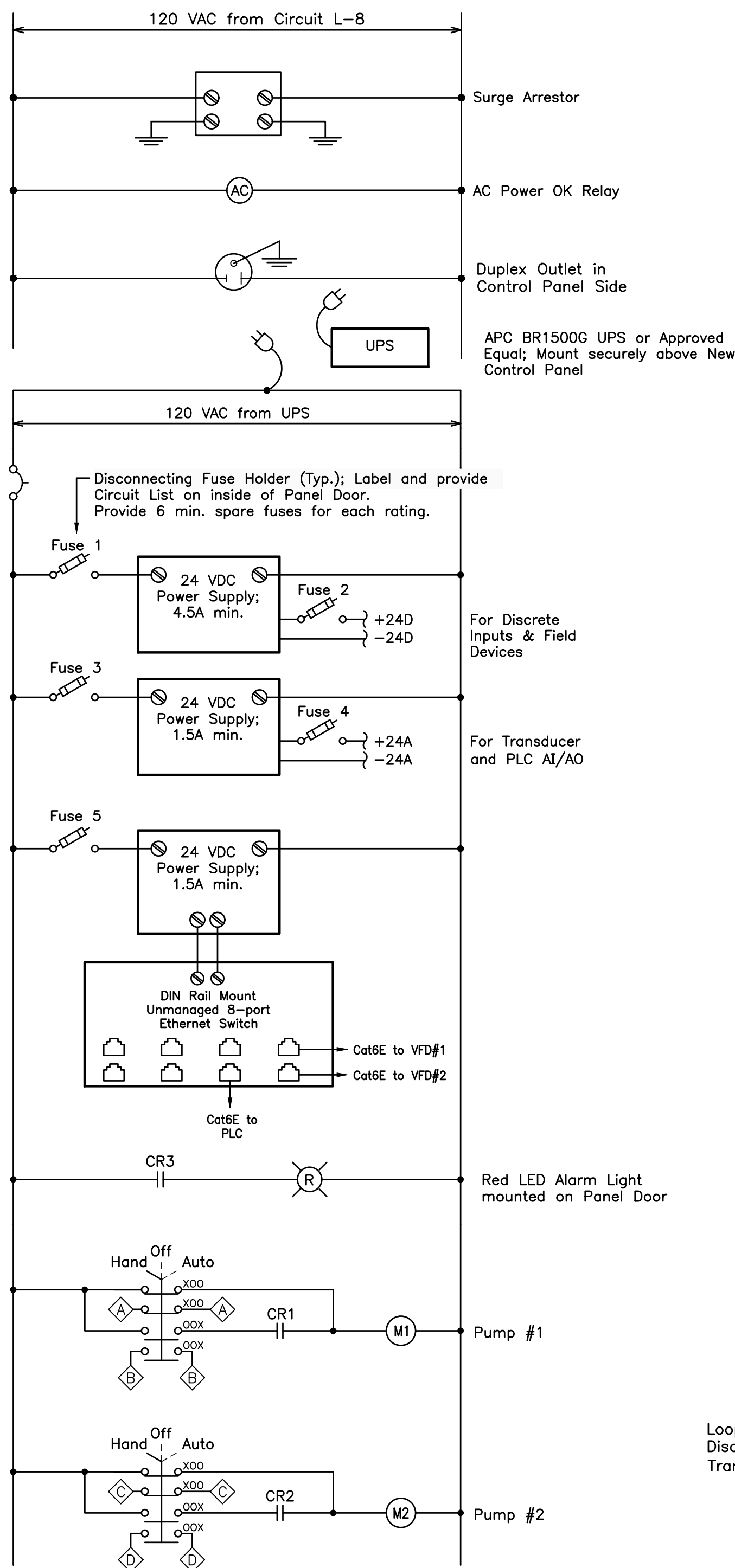
PIPING NOTES:

1. All Flange Piping shall use foundry-installed flanges. All Flange Bolts shall be 316 Stainless Steel. All Flange Nuts shall be 304 Stainless Steel. Lubricate Threads with "Never-Sieze" or Equal.
2. Flanged Pipe shall be Shop-Primed, not tar-coated.
3. Run Chlorine monitor drain to sump pump with 2" CTS-PE.
4. Plans are based on using DI Pipe. Add Alternate is to change DI Pipe to welded Sch. 40 SS.

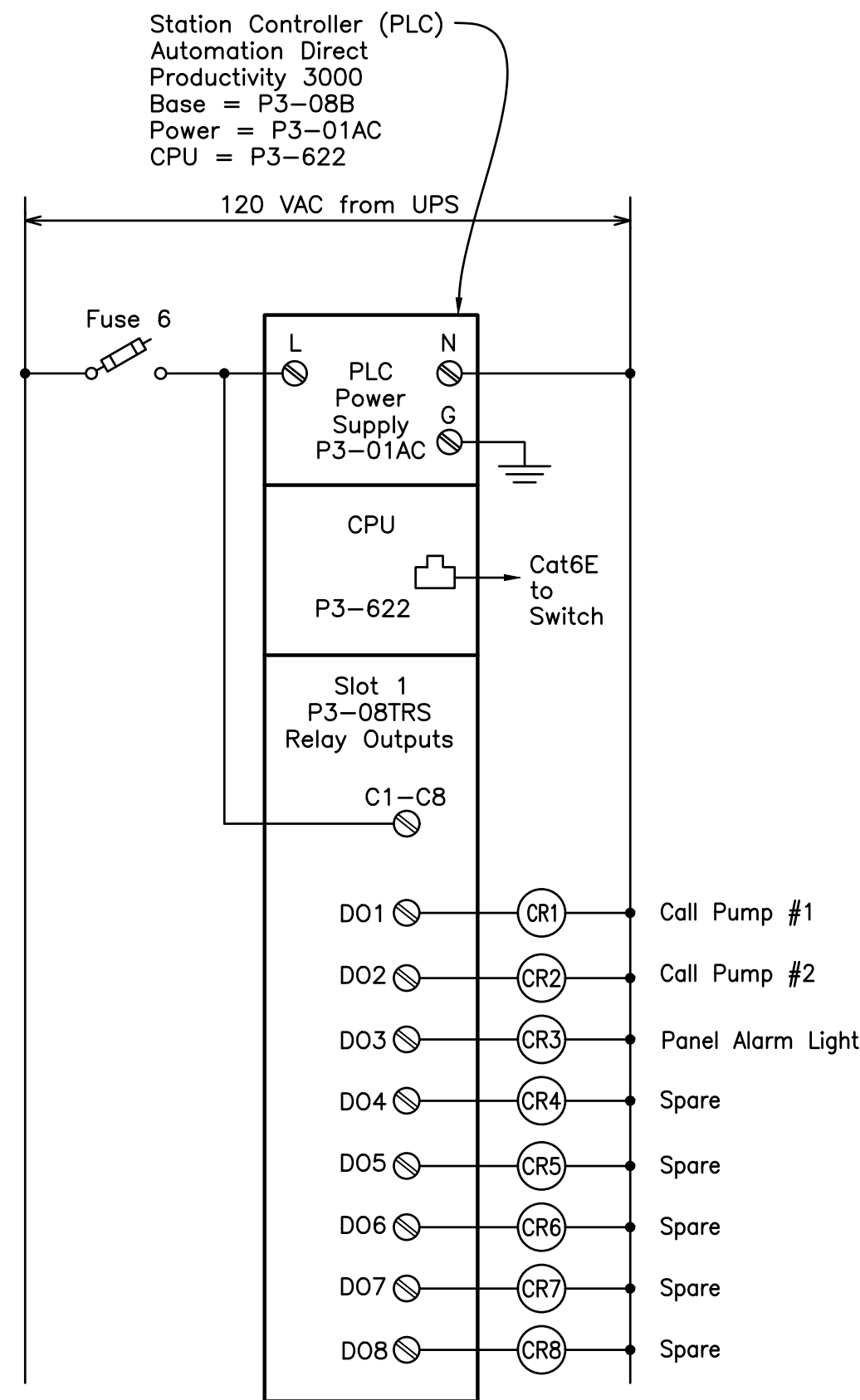


				KENNEBEC WATER DISTRICT WATERVILLE, MAINE	
NO.	REVISIONS			DATE	CHASE AVE. PUMP STATION UPGRADES PROJECT
BID SET	VERT. DATUM	See Note on Sheet 1			
	DATE:	1/26/26			
	DRAWN BY:	RJB		PIPING PLANS & DETAILS	
	CHECKED:				
	APPROVED:				
	FIELD BK:	#			
	FILE: B Chase Ave Booster Bldg				
PROJECT: #29706					
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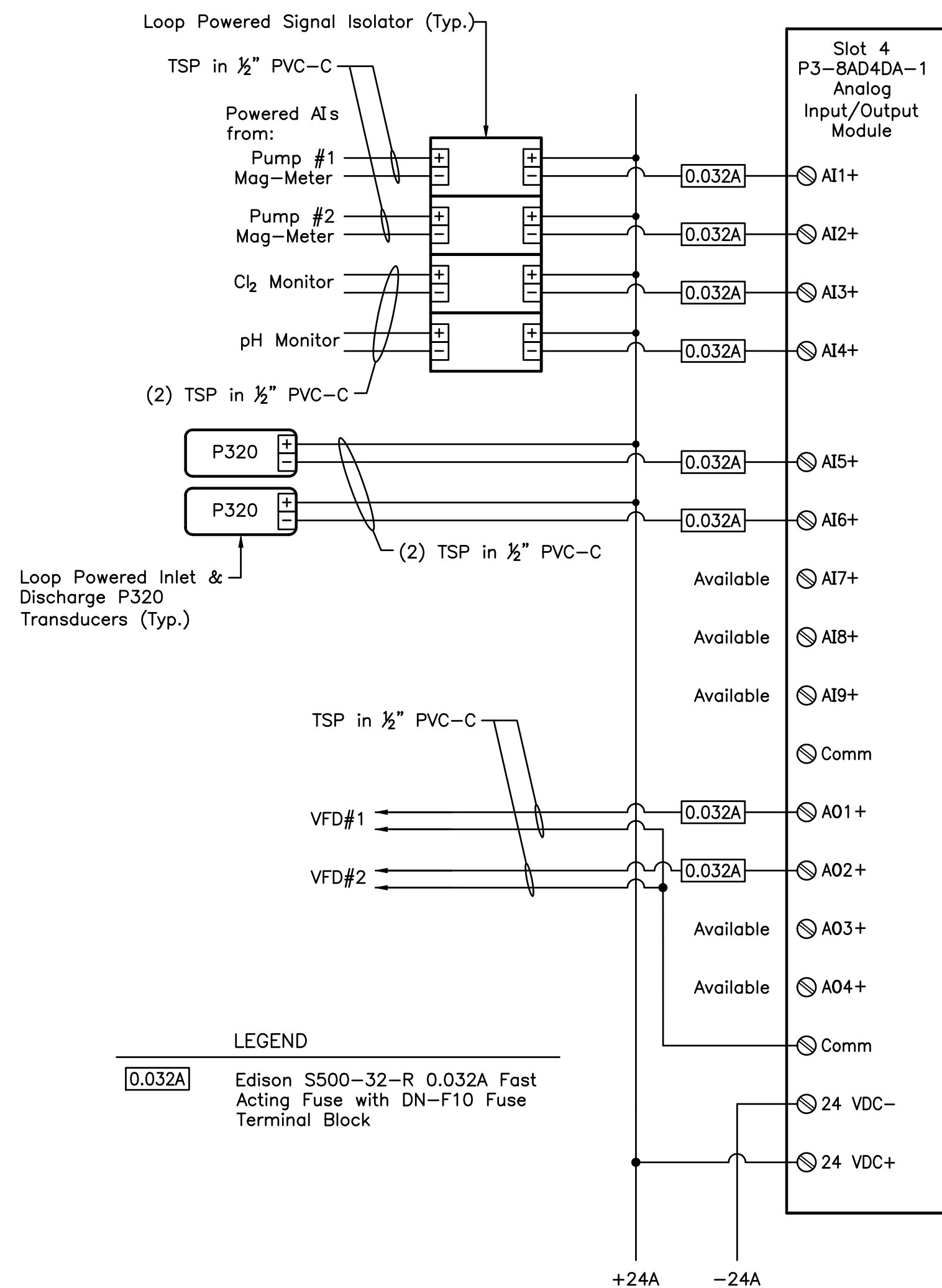
Note: On the original full size drawing, this dimension is 6"



CONTROL PANEL SCHEMATIC



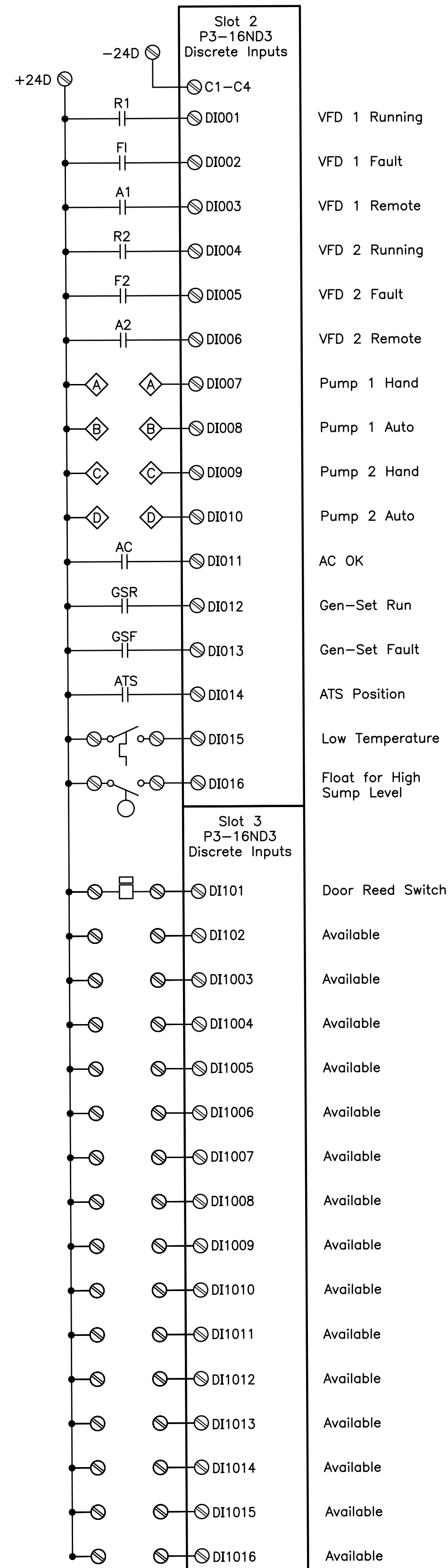
PLC SCHEMATIC



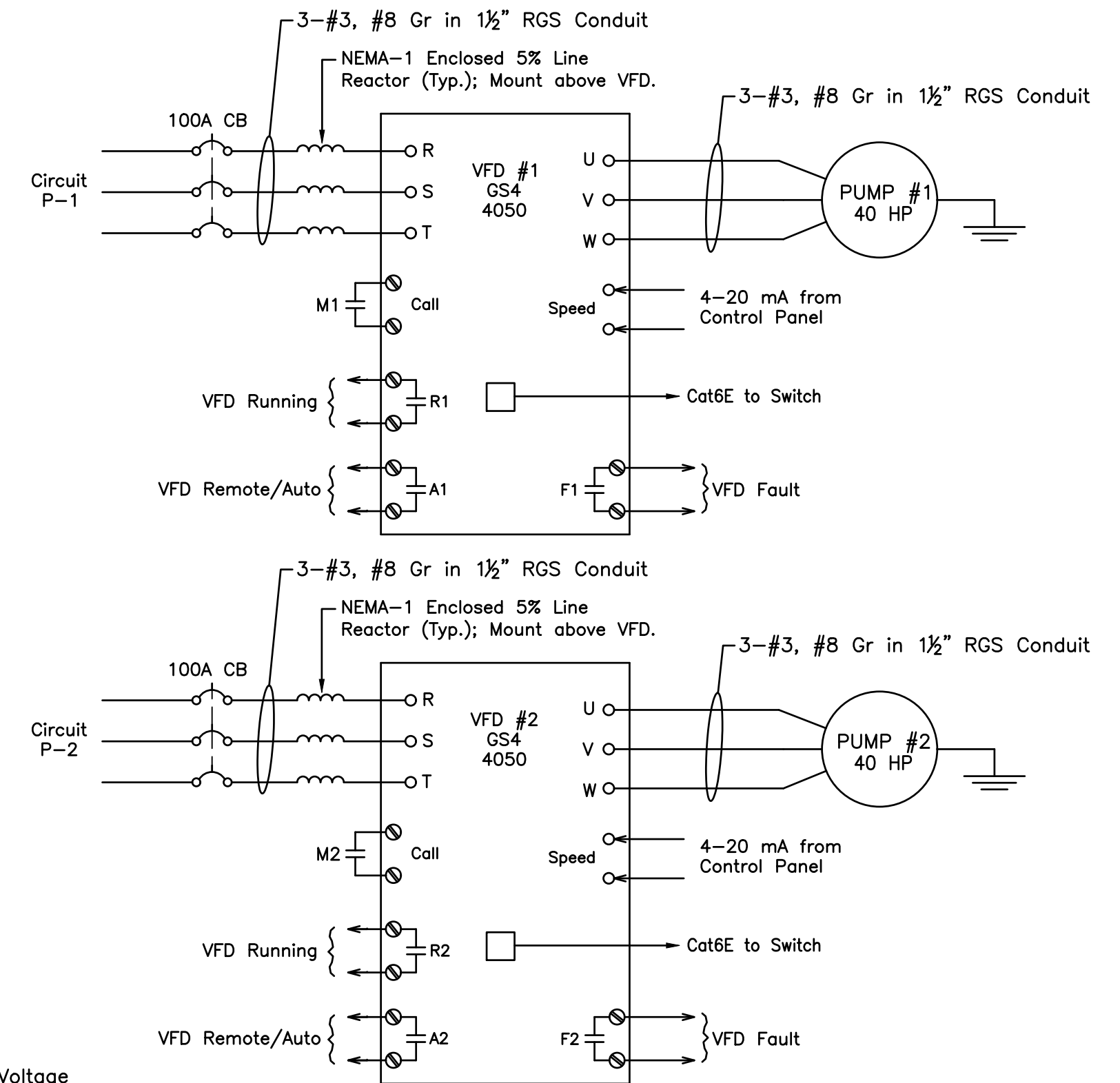
LEGEND

0.032A Edison S500-32-R 0.032A Fast Acting Fuse with DN-F10 Fuse Terminal Block

PLC SCHEMATIC (CONT'D)



PLC SCHEMATIC (CONT'D)

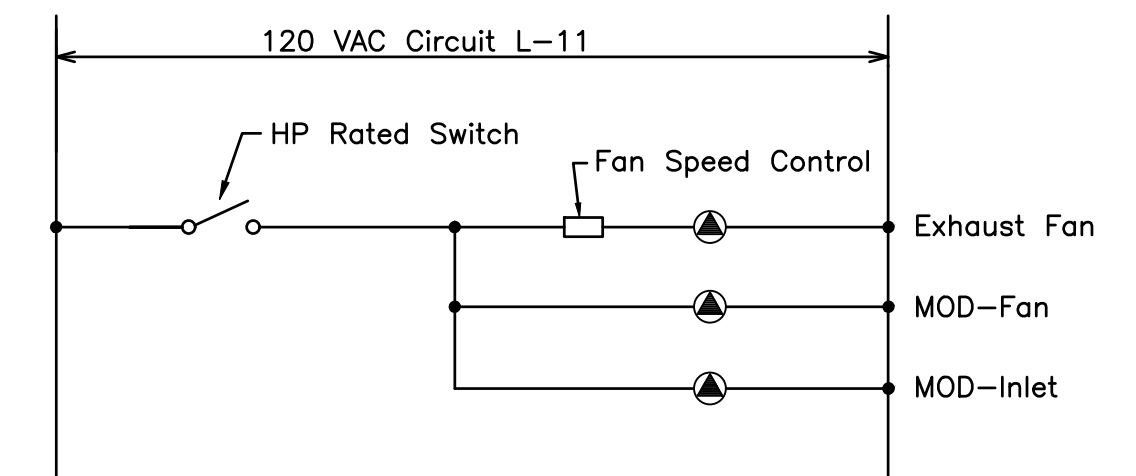


VFD SCHEMATICS

NOT TO SCALE

CONTROL PANEL NOTES:

1. New SCADA Panel to be built by KWD SCADA contractor. Installation and connection of all I/O is in this Contract. Coordinate with KWD SCADA contractor.
2. New SCADA Panel will be NEMA-12 enclosed and will house all required equipment. KWD will provide the internet hardware (firewall, VPN, ONT, etc.)
3. Communication with KWD SCADA system is via static IP addresses and a VPN over a fiber optic internet connection. The SCADA system will write the Oakland tank level to the local (Chase Ave.) PLC for control purposes. The SCADA system will read all desired data (analog and discrete) etc. from the local PLC to the remote master PLC.



EXHAUST FAN, LOUVER, & MOD SCHEMATIC

REVISIONS				DATE	
NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
BID SET	1/26/26	DATE:	RUB		
		DRAWN BY:			
		CHECKED:			
		APPROVED:			
		FIELD BK:			
FILE: 8 Chase Ave Booster Bldg				PROJECT: #29706	
KENNEBEC WATER DISTRICT WATERVILLE, MAINE				CHASE AVE. PUMP STATION UPGRADES PROJECT	
CONTROL PANEL SCHEMATICS				SHEET 6 OF 6 E2	

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

Note: On the original full size drawing, this dimension is 6"