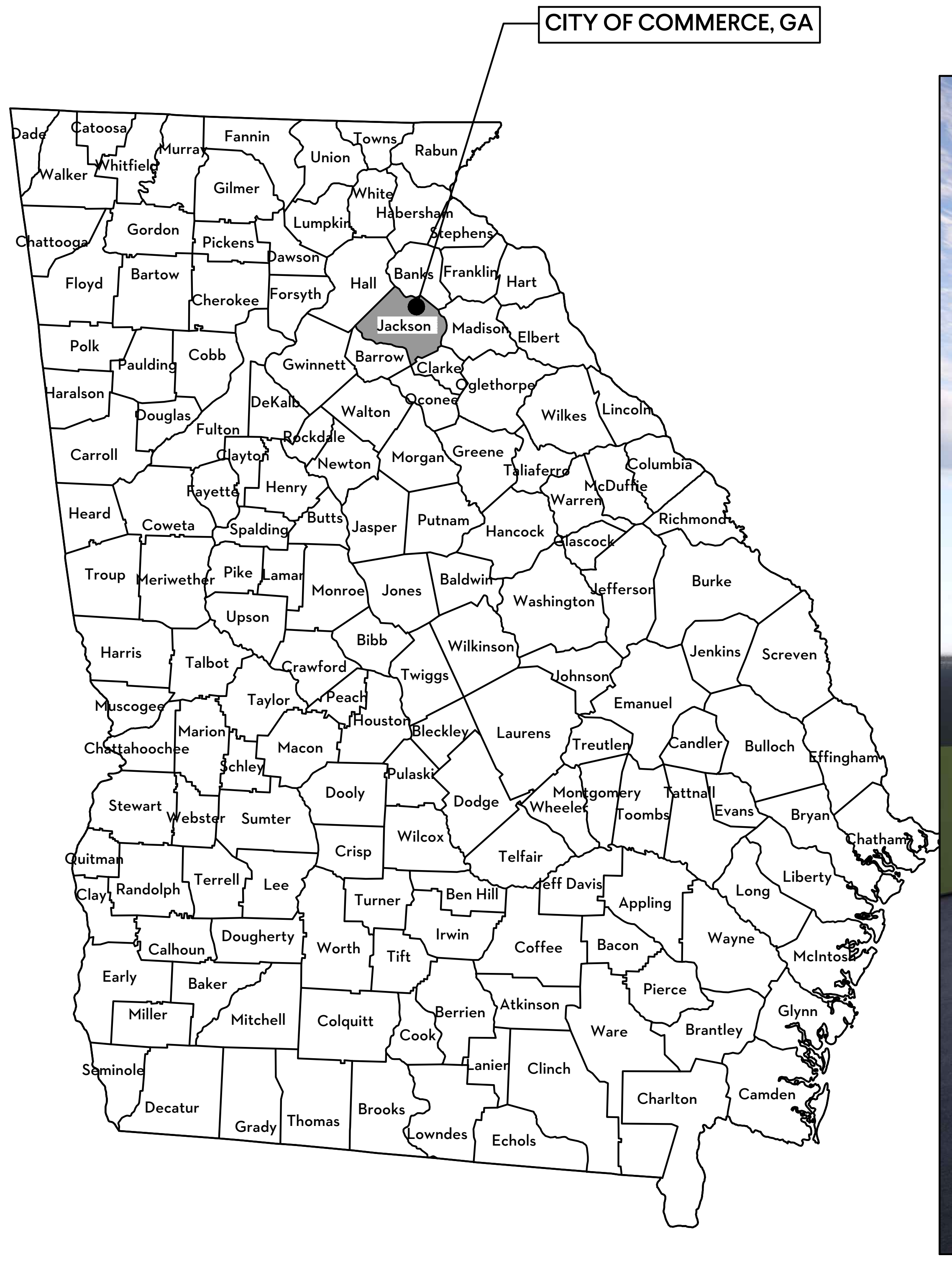
GROVE CREEK WPCP

CITY OF COMMERCE, GA
GMC PROJECT # CATL230033

CITY OF COMMERCE

CITY OF COMMERCE, GA



LOCATION MAP

MARCH 2025

BID SET

GEORGIA811
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CLIENT PROJECT TEAM

DR. J. CLARK HILL, III	MAYOR
KEITH BURCHETT	MAYOR PRO-TEM
MATTHEW HAILEY	CITY MANAGER
JOSH ALLISON	WATER & SEWER SUPERINTENDENT
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GOODWYN MILLS CAWOOD, LLC	CIVIL, PROCESS, ARCHITECTURAL
BFIELD ENGINEERING	ELECTRICAL, MECHANICAL, PLUMBING
DAY STRUCTURES	STRUCTURAL

I CERTIFY THAT I HAVE BEEN IN RESPONSIBLE CHARGE OF THE DESIGN OF THIS PROJECT IN ACCORDANCE WITH THE RULES OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS. I FURTHER CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THESE PLANS AND SPECIFICATION WERE PREPARED IN ACCORDANCE WITH CURRENT STANDARD ENGINEERING PRACTICES AND ACCURATELY REFLECT THE DESIGN DEVELOPMENT REPORT (DDR) PREVIOUSLY REVIEWED AND CONCURRED IN BY EPD. I FURTHER CERTIFY THAT THE SYSTEM AS DESIGNED CAN REASONABLY BE EXPECTED TO CONSISTENTLY MEET ALL CURRENTLY APPLICABLE PERMIT LIMITS, CONDITIONS, AND REGULATORY REQUIREMENTS, PROVIDED THE FACILITY IS CONSTRUCTED AS DESIGNED AND PROPERLY OPERATED AND MAINTAINED.

ENGINEER'S SIGNATURE Graham Sizemore

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6120 Powers Ferry Road NW, Suite 200
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GOODWYN MILLS CAWOOD, LLC
No.PEF007898
Exp.06.30.2026

1" .5" 0"

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Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
OMMERCE, GA

CATL230033

No. PE051452
03.19.2025
GRAHAM S. SIZEMORE

TITLE SHEET

G-001

GENERAL

SHT #	SHEET TITLE
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G-002	DRAWING INDEX
G-003	DRAWING INDEX
G-004	ABBREVIATIONS
G-005	GENERAL NOTES, LEGENDS, & SYMBOLS
G-006	PROCESS FLOW DIAGRAM
G-007	HYDRAULIC PROFILE (1 OF 2)
G-008	HYDRAULIC PROFILE (2 OF 2)
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SHT #	SHEET TITLE
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B-012	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
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B-014	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
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C-607	ES & PC STANDARD DETAILS
C-608	ES & PC STANDARD DETAILS
C-609	ES & PC STANDARD DETAILS
C-610	ES & PC STANDARD DETAILS
C-611	ES & PC STANDARD DETAILS
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CU-321	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 74+50 TO 85+50
CU-322	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 85+50 TO 96+50
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CU-608	ES & PC STANDARD DETAILS
CU-609	ES & PC STANDARD DETAILS
CU-610	ES & PC STANDARD DETAILS
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DRAWING INDEX

G-002

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E-004	ELECTRICAL DETAILS
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E-302	AERATION BASIN ELECTRICAL SCHEMATIC
E-401	CLARIFIERS ELECTRICAL PLAN
E-402	CLARIFIERS ELECTRICAL SCHEMATIC
E-403	RAS/WAS PUMP STATION ELECTRICAL PLAN
E-404	RAS/WAS PUMP STATION ELECTRICAL SCHEMATIC
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E-603	UV DISINFECTION ELECTRICAL SCHEMATICS
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E-712	BLOWER BUILDING ELECTRICAL PLAN
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E-801	YARD DRAIN PUMP STATION ELECTRICAL PLAN
E-802	CHEMICAL TANK FARM ELECTRICAL PLAN
E-803	CHEMICAL TANK FARM ELECTRICAL SCHEMATIC
E-901	ADMIN BUILDING LIGHTING PLAN
E-902	ADMIN BUILDING ELECTRICLA PLAN
E-903	ADMIN BUILDING ELECTRICAL SCHEMATIC

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DRAWING INDEX

G-003

COMMON ABBREVIATIONS

A	AIR
AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACP	ASPHALTIC CONCRETE PAVING
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFS	AIR FLOW SWITCH
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ARV	AIR RELIEF VALVE
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS
ASPH	ASPHALT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATM	ATMOSPHERE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AVS	AUTOMATIC VALVE STATION
AWG	AMERICAN WIRE GAGE
BE	BELL END
BF	BOTTOM FACE
BFD	BUTTERFLY DAMPER
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BLK	BLOCK
BLM	BUREAU OF LAND MANAGEMENT
BM	BENCH MARK
BOD	BIOCHEMICAL OXYGEN DEMAND
BOT	BOTTOM
BU	BELL UP
BV	BALL VALVE
C/C	CENTER TO CENTER
CCP	CONCRETE CYLINDER PIPE
CCW	COUNTER CLOCKWISE
CFM	CUBIC FEET PER MINUTE
CHKV	CHECK VALVE
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE OR CHAIN LINK
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS(ATION)
COR	CORNER
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTR	CENTER
CV	CHECK VALVE
CW	COLD WATER
CY	CUBIC YARDS
DBIO	DEWATERED BIOSOLIDS
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISTR	DISTRIBUTION
DL	DEAD LOAD
DMJ	DUCTILE MECHANICAL JOINT
DN	DOWN
DWG	DRAWING
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE OR ELECTRICAL FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ENGR	ENGINEER
EOA	EDGE OF ASPHALT
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESMT	EASEMENT
EST	ESTIMATE
EUH	ELECTRIC UNIT HEATER
EW	EACH WAY
EWS	EQUIPMENT WATER STATION
EXP JT	EXPANSION JOINT
EXST	EXISTING
EXST GR	EXISTING GRADE
EXT	EXTERIOR
F/F	FACE TO FACE
FA	FOUL AIR
FAD	FOUL AIR DUCT
FCA	FLANGE COUPLING ADAPTER
FCS	FLUSH CONTROL STATION
FD	FLOOR DRAIN
FDN	FOUNDATION
FES	FLARED END SECTION
FF EL	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FIN	FINISH
FIN FL	FINISH FLOOR
FIN GR	FINISH GRADE
FL	FLANGE
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
FTG	FOOTING OR FITTING
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GND	GROUND
GPD	GALLONS PER DAY
GPM	GALONS PER MINUTE
GR	GRIT
GRC	GALVANIZED RIGID CONDUIT
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GW	GROUNDWATER
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIBB
HDWL	HEADWALL
HNDRL	HAND RAIL
HNDWL	HAND WHEEL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HS	HIGH STRENGTH
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCL	INCLUDED
INCR	INCREASER
INF	INFLUENT
INSTL	INSTALLATION
INSTR	INSTRUMENT
INSUL	INSULATION
INV	INVERT
INT	INTERIOR
INV EL	INVERT ELEVATION
ISA	INSTRUMENT SOCIETY OF AMERICA
JST	JOIST
JTS	JOINTS
KO	KNOCKOUT
KWY	KEYWAY
L	LEFT OR LITER
LAB	LABORATORY
LAV	LAVATORY
LB(S)	POUND(S)
LEL	LOW EXPLOSIVE LIMIT
LF	LINEAR FOOT
LL	LIVE LOAD OR LOOSE LINTEL
LOC	LOCATION
LP	LOW PRESSURE OR LIGHT POLE
LR	LONG RADIUS
LS	LICENSED SURVEYOR
LT	LIGHT
LT WT	LIGHTWEIGHT
LWL	LOW WATER LEVEL
MAINT	MAINTENANCE
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MED	MEDIUM
MFM	MAGNETIC FLOW METER
MFR	MANUFACTURER
MG	MILLION GALLONS OR MILLIGRAMS
MGD	MILLION GALLONS PER DAY
MGMT	MANAGEMENT
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MNPT	MALE NATIONAL PIPE THREAD
MO	MASONRY OPENING
MRGB	MOISTURE RESISTANT GYPSUM WALL BOARD
MTG	MOUNTING
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NPL	NAMEPLATE
NPT	NATIONAL PIPE THREAD
NRS	NON-RISING STEM
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE OR OVERFLOW
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
PC	POINT OF CURVE OF PORTLAND CEMENT
P&C	PIN AND CAP
PCO	PRESSURE CLEAN OUT
PCP	PROGRESSIVE CAVITY PUMP
PCR	POINT OF CURVE RETURN
PE	PLAIN END
PERM	PERMANENT
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PL	PLATE OR PROPERTY LINE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNT	PAINT
POC	POINT ON VERTICAL CURVE
POLY	POLYETHYLENE
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARATION
PROJ	PROJECT
PROP	PROPERTY
PRS	PRESSURE REDUCING STATION
PRV	PRESS. REDUCING VALVE OR PRESS. RELIEF VALVE
PS	PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PSV	PRESSURE SUSTAINING VALVE
PT	POINT OR POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE
PVG	PAVING
PVI	POINT OF VERTICAL CURVE INTERSECTION
PVMT	PAVEMENT
Q AVG	AVERAGE DAILY FLOW
Q MAX	MAXIMUM DAILY FLOW
Q PEAK	PEAK HOUR FLOW
QTR	QUARTER
QTY	QUANTITY
RAD	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECT	RECTANGULAR
RED	REDUCER
RE:	REFER TO
REF	REFERENCE
REHAB	REHABILITATION
REINF	REINFORCE (D) (ING) (MENT)
REQD	REQUIRED
RESIL	RESILIENT
RFCA	RESTRAINED FLANGED COUPLING ADAPTER
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RTN	RETURN
SALV	SALVAGE
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SCN	SCREENINGS
SDR	STANDARD DIMENSION RATIO
SECT	SECTION
SHLDR	SHOULDER
SHT	SHEET
SIM	SIMILAR
SOTE	STANDARD OXYGEN TRANSFER EFFICIENCY
SP	SPACE (ING)
SPEC	SPECIFICATION
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SRT	SOLIDS RETENTION TIME
SST	STAINLESS STEEL
SST BT	STAINLESS STEEL BOLT
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STL PL	STEEL PLATE
STRUCT	STRUCTURAL
SV	SOLENOID VALVE
SVC	SERVICE
SWD	SIDE WATER DEPTH
SYMM	SYMMETRICAL
SYS	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T&P	TEMPERATURE AND PRESSURE
T	TEE
TB	TOP OF BEAM
TBM	TEMPORARY BENCH MARK
TE	TOP ELEVATION
TEMP	TEMPORARY
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TFF	TOP OF FINISH FLOOW
TH	TEST HOLE
THD	THREAD (ED)
THK	THICK
TJ	TOP OF JOIST
TOA	TOP OF ASPHALT
TOC	TOP OF CONCRETE OR TOP OF CURB
TOE	THREADED ONE END
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TSL	TOP OF SLAB
TSS	TOTAL SUSPENDED SOLIDS
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UGE	UNDERGROUND ELECTRIC
ULT	ULTIMATE
UN	UNION
UNGD	UNDERGROUND
VB	VALVE BOX
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VP	VENT PIPE
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WIDTH OR WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WALL HYDRANT
WL	WIND LOAD
WP	WEIR PLATE
WS	WETTED SURFACE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWTP	WASTEWATER TREATMENT PLANT
X SECT	CROSS SECTION
XMR	TRANSFORMER
YCO	YARD CLEANOUT
YH	YARD HYDRANT

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COMMERCE, GA

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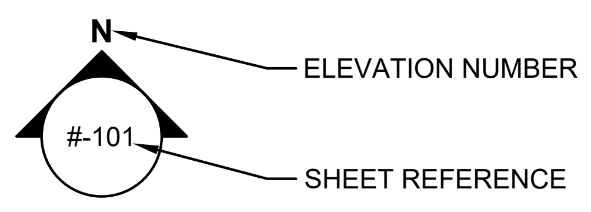
No. PE051452
Graham Sizemore
03.19.2025
GRAHAM S. SIZEMORE

ABBREVIATIONS

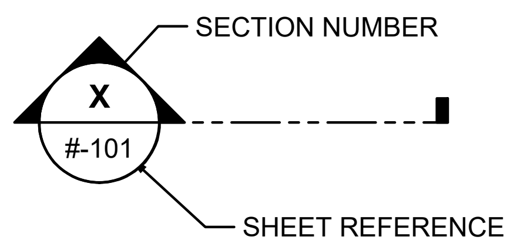
G-004

GRAPHICS LEGEND

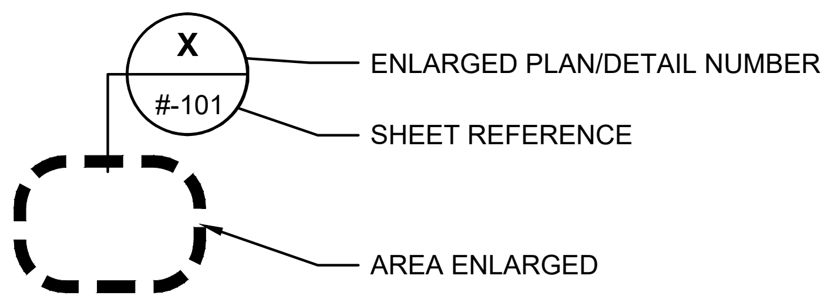
ELEVATION INDICATOR



SECTION INDICATOR



ENLARGED PLAN/DETAIL INDICATOR



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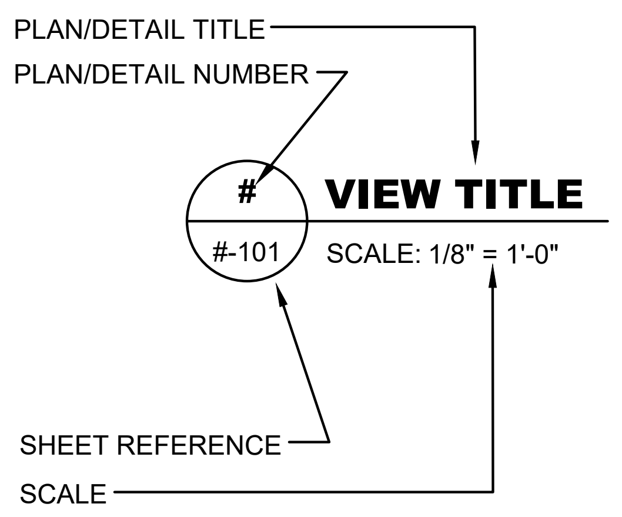
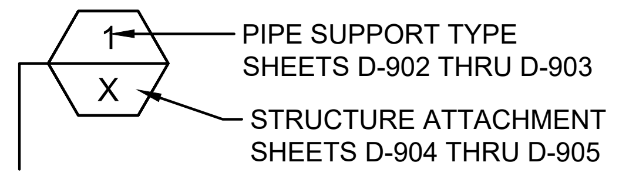
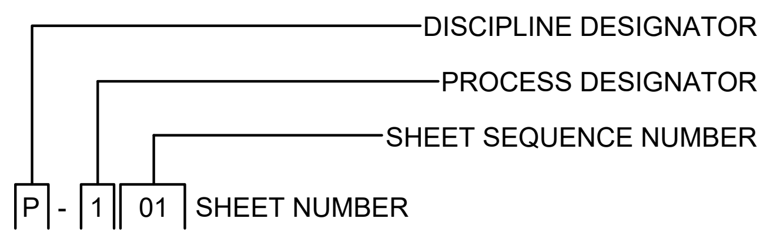


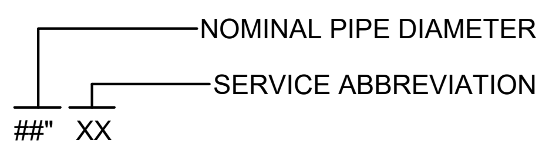
PIPE SUPPORT INDICATOR



SHEET NUMBERING



PIPE LINE IDENTIFICATION



PROCESS DESIGNATORS

PROCESS SHEETS (WASTEWATER)	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
PRELIMINARY TREATMENT	1
PRIMARY TREATMENT	2
BIOLOGICAL TREATMENT	3
SECONDARY TREATMENT	4
TERTIARY TREATMENT	5
DISINFECTION AND EFFLUENT PUMPING	6
SLUDGE STORAGE AND PROCESSING	7
MISCELLANEOUS SYSTEMS	8
DETAILS / SCHEDULES	9

CIVIL DESIGNATORS

CIVIL	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
SITE PLAN AND GEOMETRIC CONTROLS	1
GRADING AND DRAINAGE	2
UTILITIES/YARD PIPING	3
ROAD PLAN AND PROFILES (IF REQUIRED)	4
ROAD CROSS SECTIONS (IF REQUIRED)	5
SEDIMENT AND EROSION CONTROL	6
RESERVED	7
RESERVED	8
DETAILS / SCHEDULES	9

OWNER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
CITY MANAGER	MATTHEW HAILEY	706.423.5125	MHAILEY@COMMERCEGA.GOV
WWTP SUPERINTENDENT	TAD EDMONSON	770.374.3288	TEDMONSON@COMMERCEGA.GOV

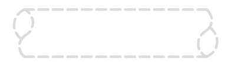
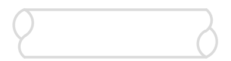
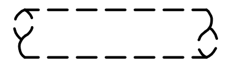
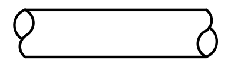
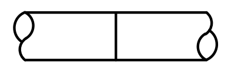
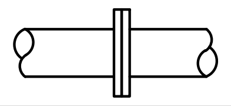
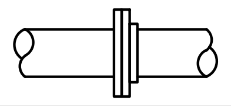
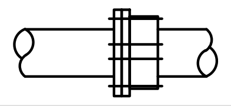
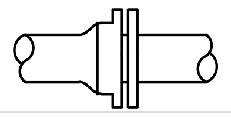
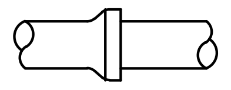
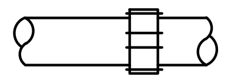
CONTRACTOR

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	TBD		
SUPERINTENDENT	TBD		

ENGINEER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	CHARLES WELCH	770.952.2481 EXT. 103	CHARLES.WELCH@GMCNETWORK.COM
ENGINEER	GRAHAM SIZEMORE, PE	770.952.2481 EXT. 143	GRAHAM.SIZEMORE@GMCNETWORK.COM
INSPECTOR	TONY VAN DE RYT	770.952.2481 EXT. 110	TONY.VANDERYT@GMCNETWORK.COM

PIPE SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
EXISTING BURIED PIPE	┈┈┈	
EXISTING ABOVE GRADE PIPE	───	
NEW BURIED PIPE	– – – – –	
NEW ABOVE GRADE PIPE	───	
WELDED JOINT	╳	
FLANGED JOINT	╳	
FLANGED ADAPTOR	╳	
FLANGED COUPLING	╳	
MECHANICAL JOINT	╳	
JOINT	╳	
EXPANSION JOINT	╳	

HATCHING LEGEND

DESCRIPTION	EXISTING	PROPOSED
ASPHALT PAVING (PLAN)	▨	■
ALUMINUM GRATING	▦	▦
CONCRETE (ELEVATION)	░	▓
CONCRETE (PLAN)	░	▓
CONCRETE (SECTION)	▨	▓
CRUSHED STONE (SECTION)	╳	▩
EARTH OR BACKFILL (SECTION)	╳	▩
GRAVEL DRIVE (PLAN)	▩	▩
GROUT FILL (PLAN & SECTION)	░	▒
LAKE, RIVER OR POND (PLAN)	≈	╳
REMOVAL OR DEMOLITION (PLAN & SECTION)	╳	▩
UNPAVED DRIVE (PLAN)	░	▓

DISCIPLINE DESIGNATORS

DISCIPLINE	DESIGNATOR
GENERAL	G
HAZARDOUS MATERIALS	H
INSTRUMENTATION	I
DEMOLITION	X
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL	C
LANDSCAPE	L
STRUCTURAL	S
ARCHITECTURAL	A
FIRE PROTECTION	F
MECHANICAL	M
PLUMBING	P
PROCESS	D
ELECTRICAL	E

GENERAL NOTES

1. THE CONTRACTOR IS EXPECTED TO CAREFULLY EXAMINE THE PLANS, PROPOSAL AND SITE OF THE WORK. THEREFORE, IT WILL BE ASSUMED THAT THE BIDDER HAS SATISFIED HIMSELF AS TO THE CONDITIONS TO BE ENCOUNTERED IN REGARDS TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND CONTRACT. THE SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.

2. THE CONTRACTOR IS REQUIRED TO MAINTAIN AN AS-BUILT SET OF DRAWINGS DURING PROJECT CONSTRUCTION. THE COMPLETE AS-BUILT MAP WILL CONTAIN ALL INSTALLED ELECTRICAL, STRUCTURAL ENTITIES, LINES, VALVES, METERS, AND CONNECTIONS WITH REFERENCE DISTANCES TO PERMANENT ABOVE GROUND STRUCTURES.

3. ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE, LOCATION, AND DEPTH OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED BY CONTRACTOR FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER PER SPECIFICATION 1030.

5. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE CIVIL DRAWINGS AND THE ARCHITECTURAL/STRUCTURAL DRAWINGS, THE ARCHITECTURAL/STRUCTURAL DRAWINGS SHALL HAVE PRECEDENCE. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY CONFLICT IN THE PLANS/SPECS FOR CLARIFICATION PRIOR TO BID. SHOULD CONFLICTING DOCUMENTS NOT BE CLARIFIED AT THE REQUEST OF THE BIDDING CONTRACTOR, THE MORE COSTLY ALTERNATIVE AS IDENTIFIED IN THE PLAN & SPECS SHALL BE INCLUDED IN THE PRICE BID.

6. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT, INCLUDING, BUT NOT LIMITED TO, PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS SHALL BE STORED IN ACCORDANCE WITH "SPILL PREVENTION, CONTROL & COUNTERMEASURE" REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH STATE & FEDERAL AGENCY REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY TRASH OR OTHER POLLUTANTS FROM ENTERING STORM DRAINS & WATERS OF THE STATE.

GMC

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No.PEF007898
Exp.06.30.2026

1" .5" 0" 1"

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Project Manager: CW
Engineer: GS
Designer: GS
Drawn By:

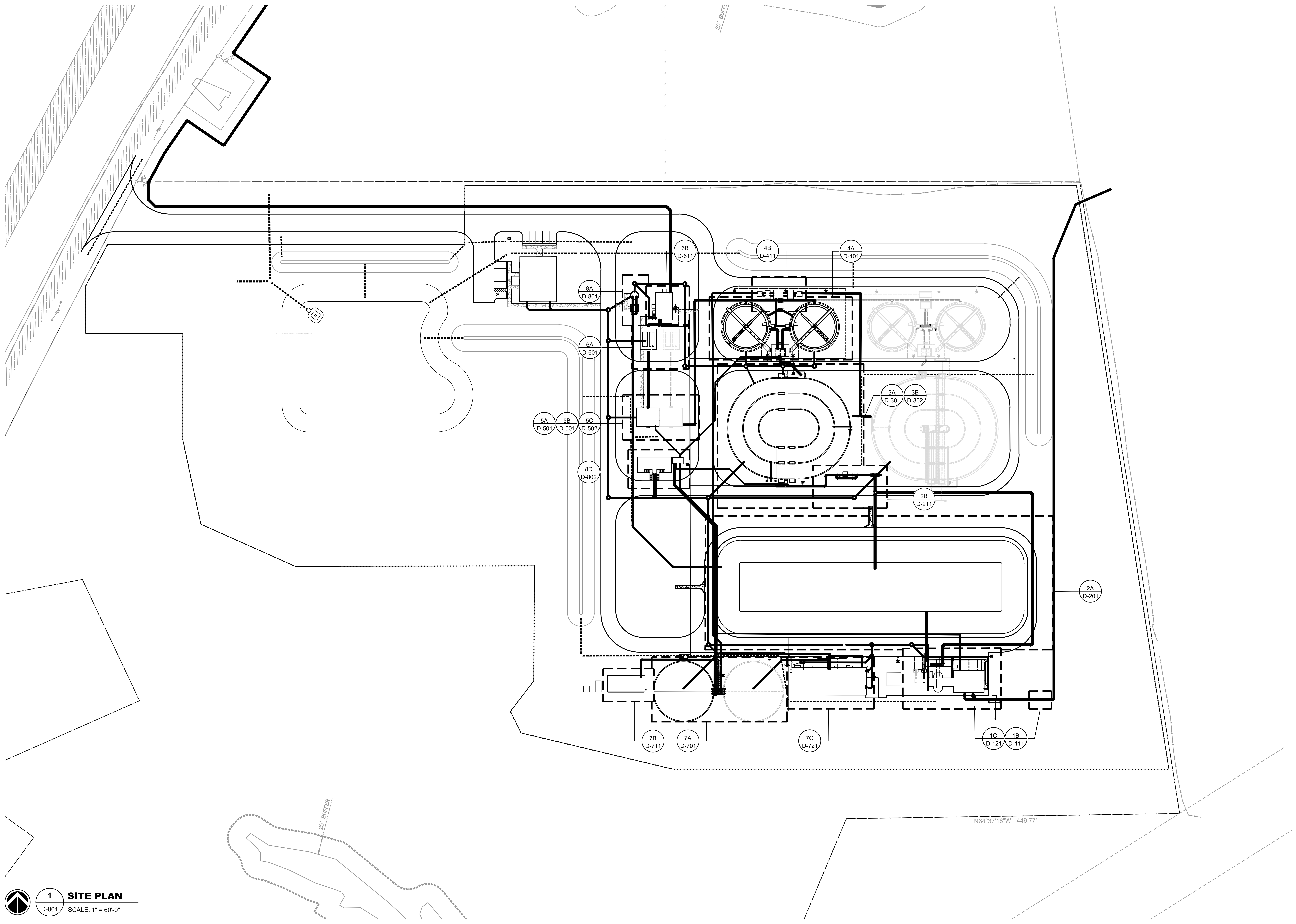
COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

No. PE051452
Graham Sizemore
03.19.2025
GRAHAM S. SIZEMORE

GENERAL NOTES,
LEGENDS, & SYMBOLS

G-005



1
D-001
SITE PLAN
SCALE: 1" = 60'-0"

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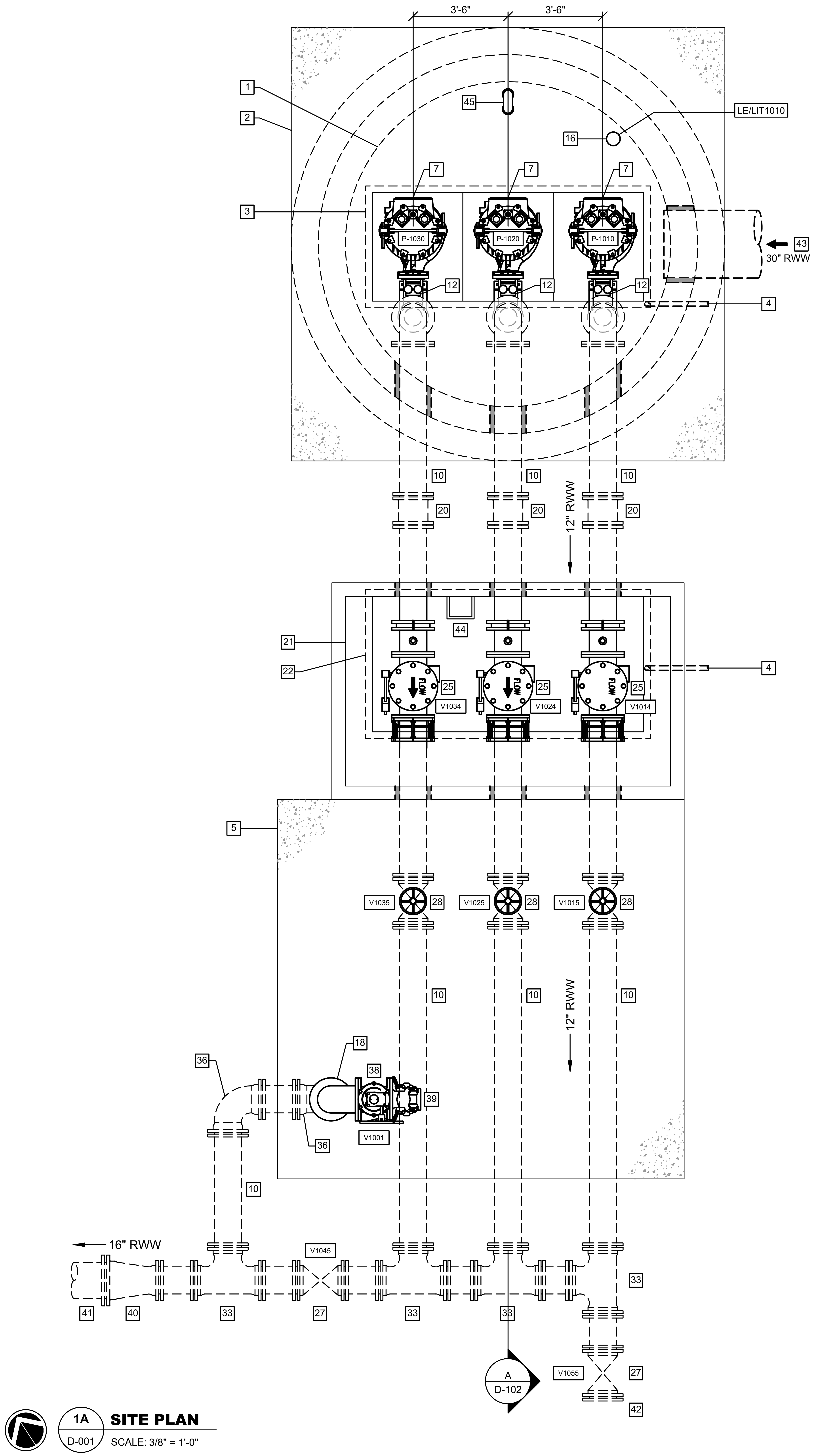
PROCESS KEY SITE PLAN

D-001



1A SITE PLAN
D-001
SCALE: 3/8" = 1'-0"

KEY NOTES: #

ALL PROCESS PIPE CONNECTIONS SHALL BE RESTRAINED.

1. 12' - 0" Ø PRECAST CONCRETE WETWELL, MIN 9" WALL THICKNESS
2. 12" TOP SLAB
3. (3) 40" x 48" ALUMINUM ACCESS HATCHES WITH SAFE HATCH ACCESS IN A SINGLE DRAINABLE FRAME.
4. HATCH DRAIN TO DAYLIGHT
5. 4" FIBERMESH CONCRETE SLAB WITH 1 MAT OF W2.9 X W2.9 WELDED WIRE REINFORCEMENT (15'-0" x 14'-0")
6. PUMP BASE AND DISCONNECT
7. SUBMERSIBLE PUMP
8. GROUT FILL
9. 8" x 12" FJ ECCENTRIC INCREASER
10. 12" DIP
11. INTERMEDIATE SSTL GUIDE BAR BRACKET
12. 3" SCH 40 304 SST GUIDE PIPES AND GUIDE BAR BRACKET
13. CONTROL AND POWER CABLES FROM CONTROL PANEL
14. CABLE HOLDER
15. CABLE HOOK
16. 6" SCH 40 PVC STILLING WELL
17. PRESSURE TRANSDUCER LEVEL SENSOR AND CABLE
18. 12" FJ 90° BEND
19. 12" ANNULAR SEAL
20. 12" MJ SLEEVE (RESTRAINED)
21. 12' x 7' PRECAST CONCRETE VALVE VAULT.
22. 120" x 60" ALUMINUM ACCESS HATCH
23. 12" FLANGE COUPLING ADAPTER (RESTRAINED)
24. PRESSURE GAUGE
25. 12" CHECK VALVE
26. PIPE SUPPORT
27. 12" MJ PLUG VALVE
28. HAND WHEEL OPERATING FLOOR STAND
29. 4" Ø VALVE VAULT DRAIN WITH P-TRAP
30. 4" DIP
31. 4" RED VALVE TIDEFLEX DUCKBILL CHECK VALVE
32. GROUT VALVE VAULT FLOOR TO DRAIN TO 4" DRAIN
33. 12" x 12" MJ TEE
34. AIR RELEASE VALVE FOR WASTEWATER
35. 2" BALL VALVE
36. 12" MJ 90° BEND
37. 12" FL 90° BEND
38. 12" FL PLUG VALVE
39. QUICK CONNECT COUPLING FOR EMERGENCY BYPASS
40. 12" x 16" MJ INCREASER
41. 16" DIP
42. 12" PLUG
43. 30" DIP INFLUENT FROM EXISTING PUMP STATION WET WELL
44. MH STEPS @ 12"
45. 4"Ø DIP VENT PIPE W/S.S. INSECT VENT SCREEN

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1" .5" 0" 1"

ISSUE	DATE
30% Submittal	05.30.2024
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Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

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03.19.2025
GRAHAM S. SIZEMORE

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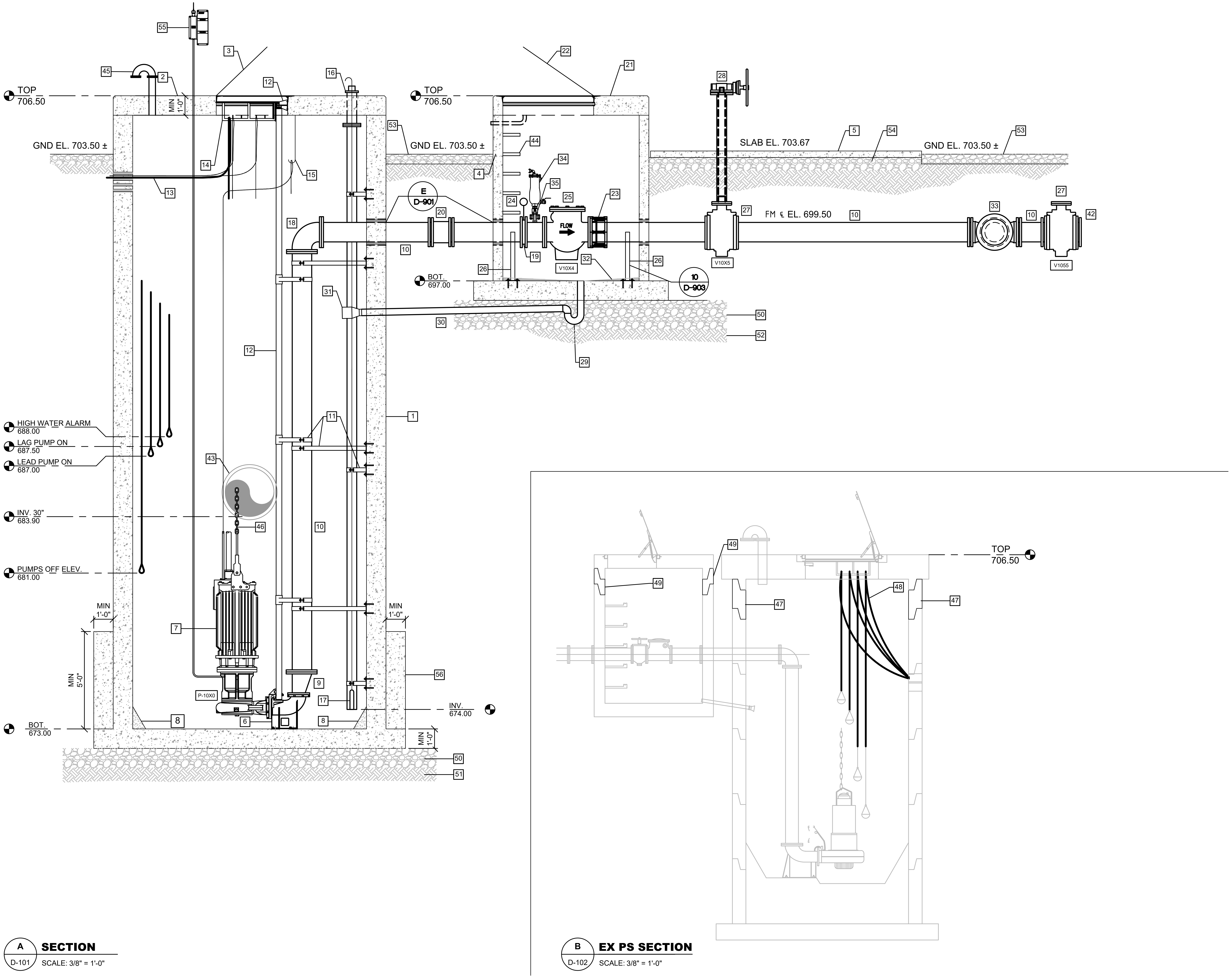
INFLUENT PUMPING
STATION PLAN

D-101



A SECTION
D-101 SCALE: 3/8" = 1'-0"

B EX PS SECTION
D-102 SCALE: 3/8" = 1'-0"

KEY NOTES: #

ALL PROCESS PIPE CONNECTIONS SHALL BE RESTRAINED.

1. 12' - 0" Ø PRECAST CONCRETE WETWELL, MIN 9" WALL THICKNESS
2. 12" TOP SLAB
3. (3) 40" x 48" ALUMINUM ACCESS HATCHES WITH SAFE HATCH ACCESS IN A SINGLE DRAINABLE FRAME.
4. DRAIN TO DAYLIGHT
5. 4" FIBERMESH CONCRETE SLAB WITH 1 MAT OF W2.9 X W2.9 WELDED WIRE REINFORCEMENT (15'-0" x 14'-0")
6. PUMP BASE AND DISCONNECT
7. SUBMERSIBLE PUMP
8. GROUT FILL
9. 8" x 12" FJ ECCENTRIC INCREASER
10. 12" DIP
11. INTERMEDIATE SSTL GUIDE BAR BRACKET
12. 3" SCH 40 304 SSTL GUIDE PIPES AND GUIDE BAR BRACKET
13. CONTROL AND POWER CABLES FROM CONTROL PANEL
14. CABLE HOLDER
15. CABLE HOOK
16. 6" SCH 40 PVC STILLING WELL
17. PRESSURE TRANSDUCER LEVEL SENSOR AND CABLE
18. 12" FJ 90° BEND
19. 12" ANNULAR SEAL
20. 12" SOLID SLEEVE
21. 12' x 7' PRECAST CONCRETE VALVE VAULT.
22. 120" x 60" ALUMINUM ACCESS HATCH
23. 12" FLANGE COUPLING ADAPTER (RESTRAINED)
24. PRESSURE GAUGE
25. 12" CHECK VALVE
26. PIPE SUPPORT
27. 12" MJ PLUG VALVE
28. EXTENDED BONNET TYPE W/ GEAR ACTUATOR ABOVE GROUND
29. 4" Ø VALVE VAULT DRAIN WITH P-TRAP
30. 4" DIP
31. 4" RED VALVE TIDEFLEX DUCKBILL CHECK VALVE
32. GROUT VALVE VAULT FLOOR TO DRAIN TO 4" DRAIN
33. 12" x 12" MJ TEE
34. AIR RELEASE VALVE FOR WASTEWATER
35. 2" BALL VALVE
36. 12" MJ 90° BEND
37. 12" FL 90° BEND
38. 12" FL PLUG VALVE
39. QUICK CONNECT COUPLING FOR EMERGENCY BYPASS
40. 12" x 16" MJ INCREASER
41. 16" DIP
42. 12" MJ PLUG
43. 30" DIP INFLUENT FROM EXISTING PUMP STATION WET WELL
44. MH STEPS @ 12"
45. 4"Ø DIP VENT PIPE W/S.S. INSECT VENT SCREEN
46. SUBMERSIBLE PUMP LIFTING CHAIN
47. ADD CIRCULAR RISER SECTION W/ SEALANT - 10' INTERNAL Ø PRECAST WETWELL. RAISE TOP SLAB OF EXISTING WET WELL TO ELEVATION OF 706.50
48. READJUST SWITCHES AND CHAIN.
49. ADD RECTANGULAR RISER SECTION W/ SEALANT - 6' x 8' INTERNAL PRECAST VAULT. RAISE TOP SLAB OF EXISTING VAULT TO ELEVATION OF 706.50
50. 12" MIN. #57 STONE BASE TO EXTEND 12" MIN. FROM FOOTING
51. COMPACTED SUBGRADE TO 98% STANDARD PROCTOR. REQUIRED SOIL BEARING = 2250 PSF
52. COMPACTED SUBGRADE TO 98% STANDARD PROCTOR. REQUIRED SOIL BEARING = 1350 PSF
53. 6" GAB OR #57 STONE BASE REQUIRED INSIDE FENCED AREA
54. 8" GAB OR #57 STONE BASE REQUIRED UNDER 4" SLAB
55. HARDWIRED AUTOMATIC OIL MONITORING SYSTEM. LOCATE NEAR CONTROL PANEL.
56. ANTI-FLOATATION CONCRETE COLLAR

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1" 0" .5" 1"

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Designer:	GS
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03.19.2025
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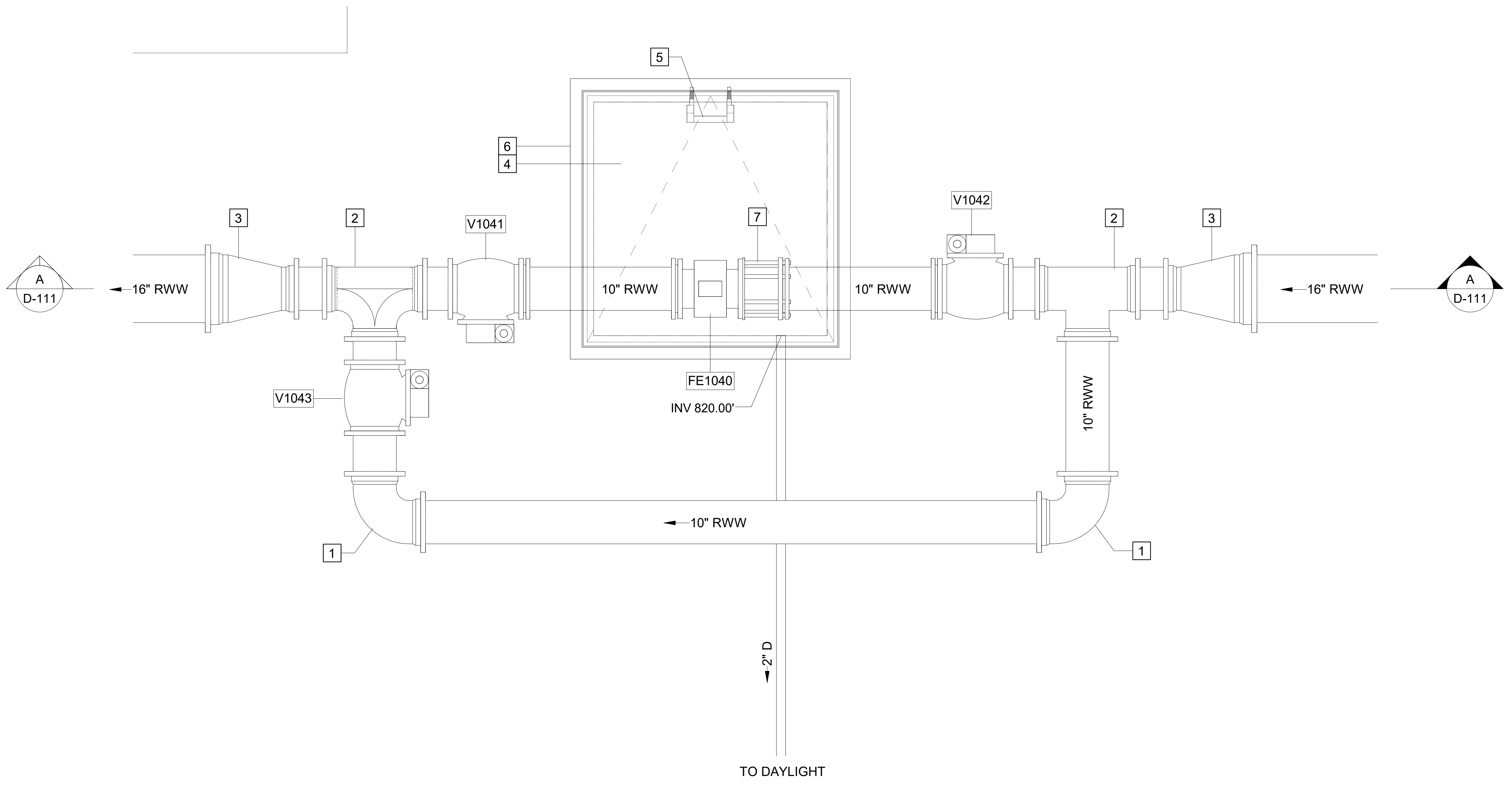
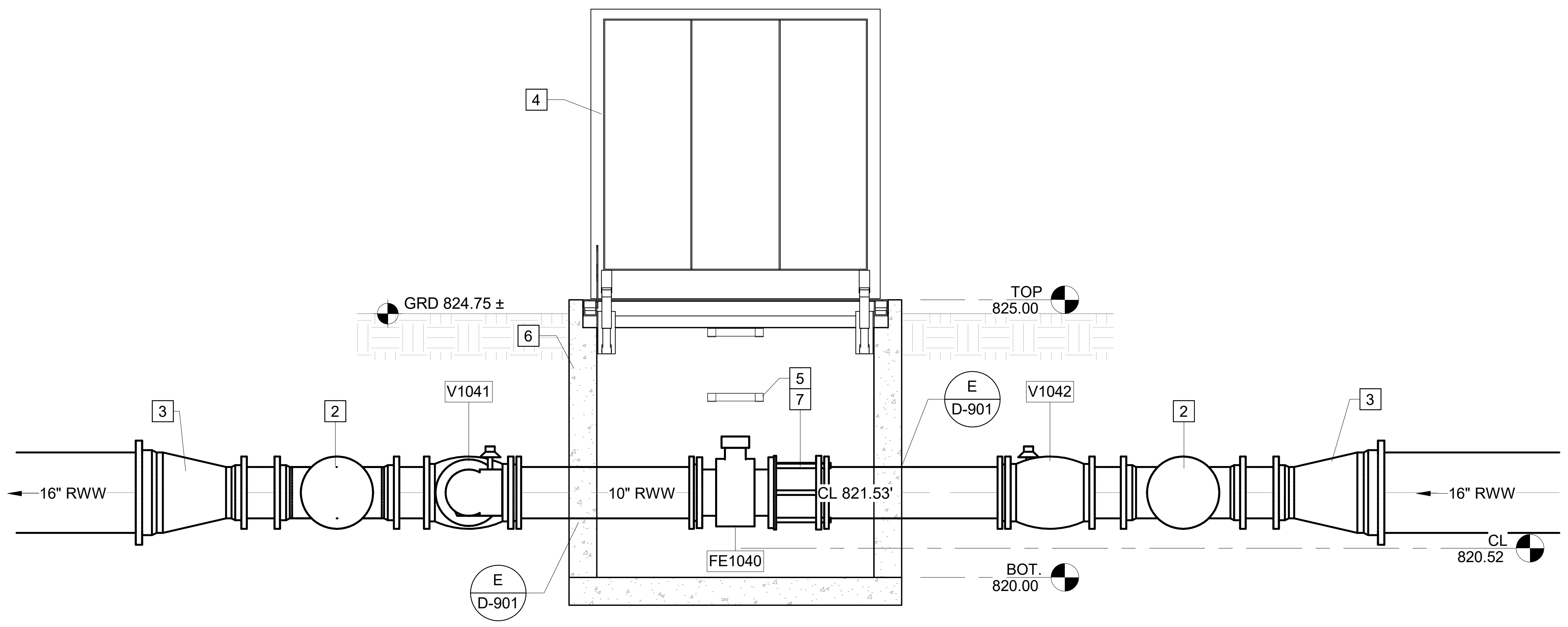
INFLUENT PUMPING STATION SECTION & DETAILS

D-102



1B
D-111
PLAN
SCALE: 1/2" = 1'-0"



A
D-111
SECTION
SCALE: 1/2" = 1'-0"

KEY NOTES: #

1. 10" 90 MJ BEND
2. 10" MJ TEE
3. 16"X10" MJ REDUCER
4. SINGLE LEAF 5' X 5' ACCESS HATCH
5. ACCESS STEPS
6. PRECAST CONCRETE VAULT
7. 10" FLANGE COUPLING ADAPTER (RESTRAINED)

NOTE:

1. ALL PROCESS PIPE CONNECTIONS SHOW SHALL BE RESTRAINED

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INFLUENT FLOW METER VAULT - PLAN & SECTION

D-111

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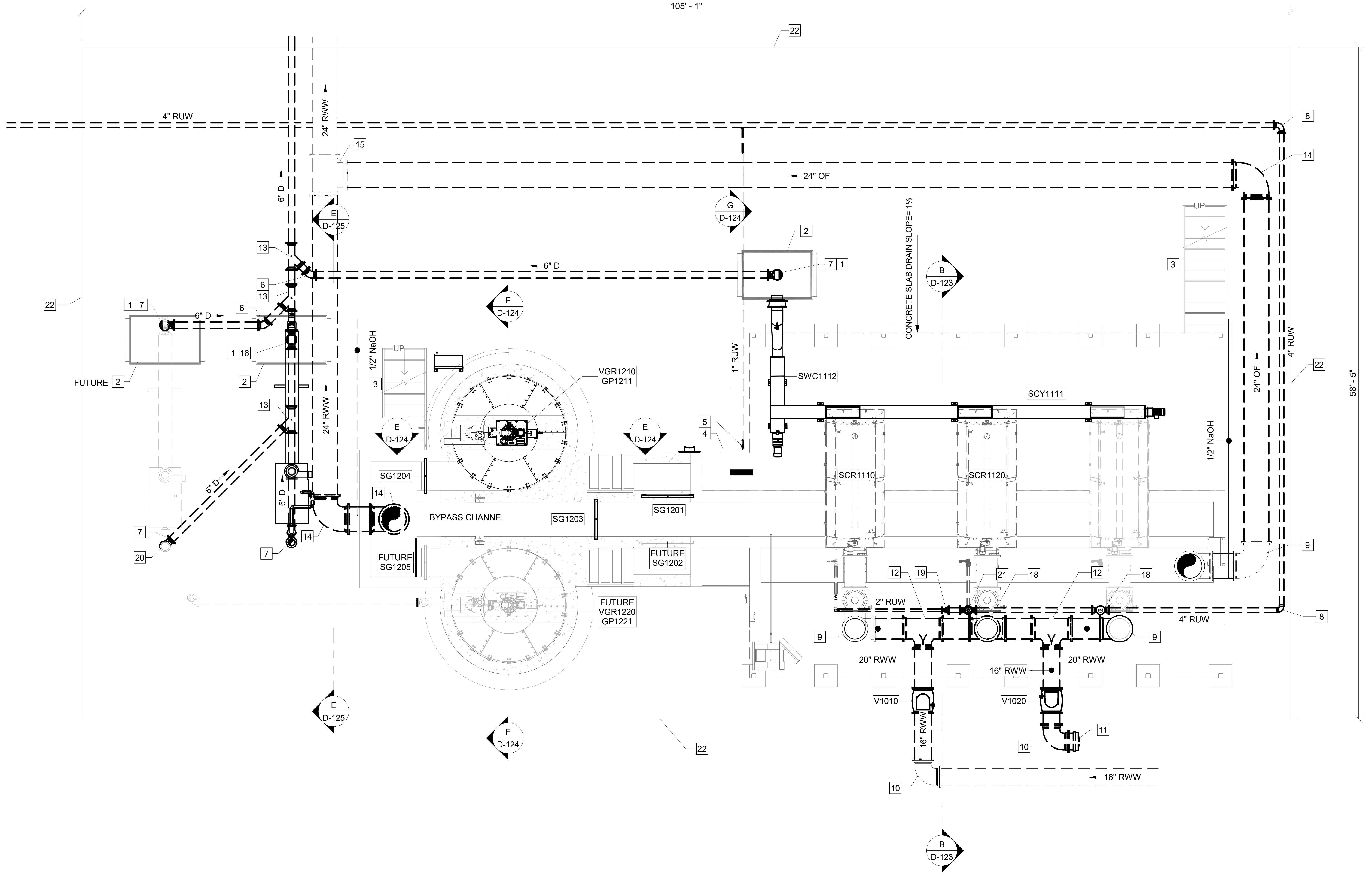

1C D-121 **PLAN**

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

KEY NOTES: #

1. GRATE DRAIN
2. DUMPSTER BY OWNER
3. METAL STAIRS W/ STAIR HAND RAILING
4. HOSE RACK
5. FROST PROOF YARD HYDRANT
6. 6" 45° MJ BEND
7. 6" 90° MJ BEND
8. 4" 90° FL BEND
9. 20" 90° MJ BEND
10. 16" 90° MJ BEND
11. 16" MJ PLUG (RESTRAINED)
12. 20" X 16" MJ TEE
13. 6" MJ WYE
14. 24" 90° MJ BEND
15. 24" MJ TEE
16. 6" MJ TEE
17. 24" 90° FL BEND
18. 20" MJ TEE
19. COUPLING/ADAPTER. TRANSITION FROM 4" D.I. TO 2" PVC.
20. BLIND FLANGE SET 6" ABOVE GRADE
21. 4" MJ TEE WITH PLUG , TAPPED 2" FOR RUW FEED TO SCREEN
22. EDGE OF 6" CONCRETE SLAB

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HEADWORKS - LOWER PLAN

D-121

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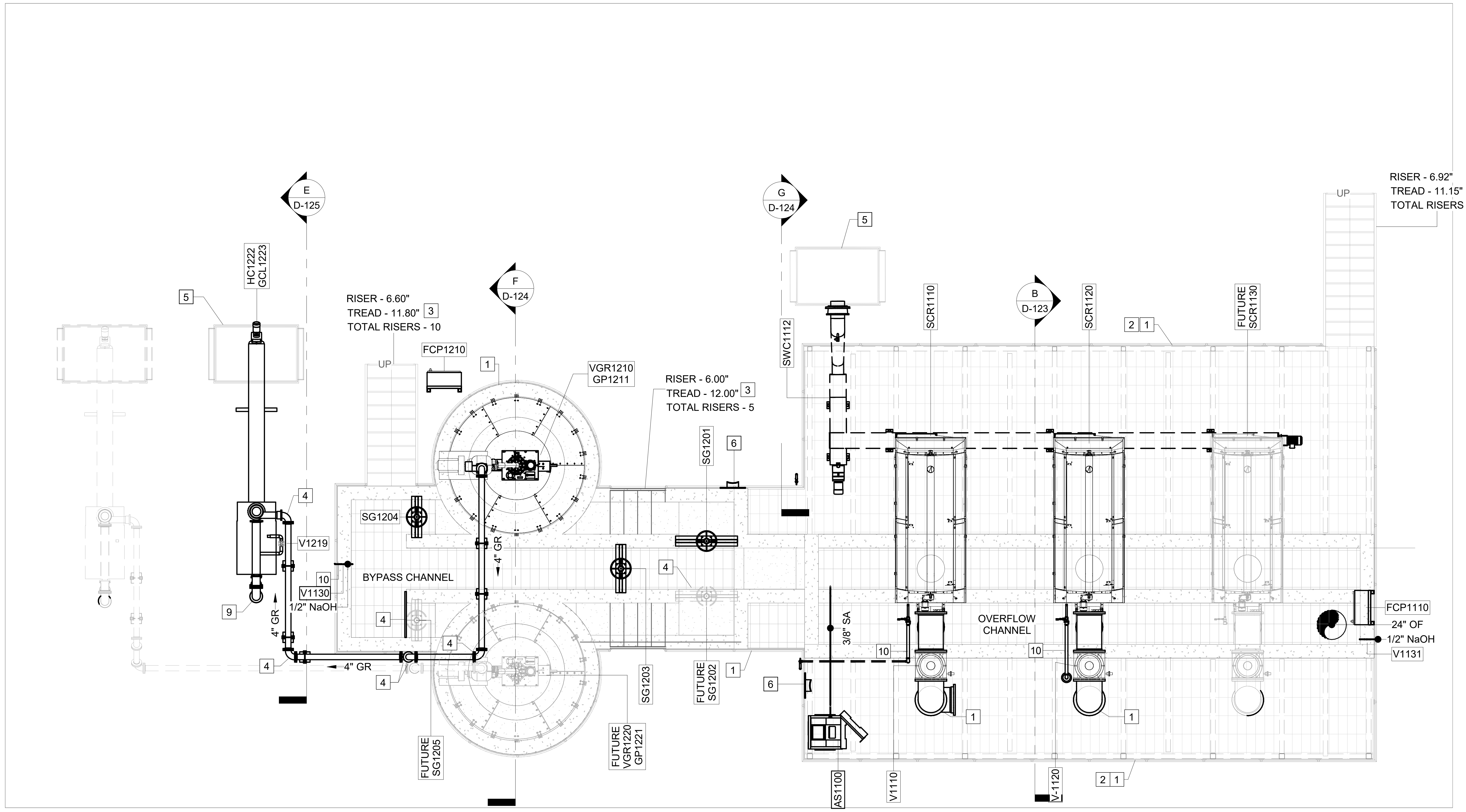
KEY NOTES: #

1. 3'-6" ALUMINUM DOUBLE HANDRAIL W/ KICK PLATE
2. ELEVATED PLATFORM. SEE STRUCTURAL
3. METAL STAIRS W/ STAIR HAND RAILING
4. BULKHEAD PLATE. SEE STRUCTURAL
5. DUMPSTER BY OWNER
6. HOSE RACK
7. FROST PROOF YARD HYDRANT
8. 4" FL 90° BEND
9. 6" FL 90° BEND
10. INSULATE AND HEAT TRACE ABOVE GROUND NaOH AND RUW PIPING



1D
D-122
PLAN
SCALE: 3/16" = 1'-0"

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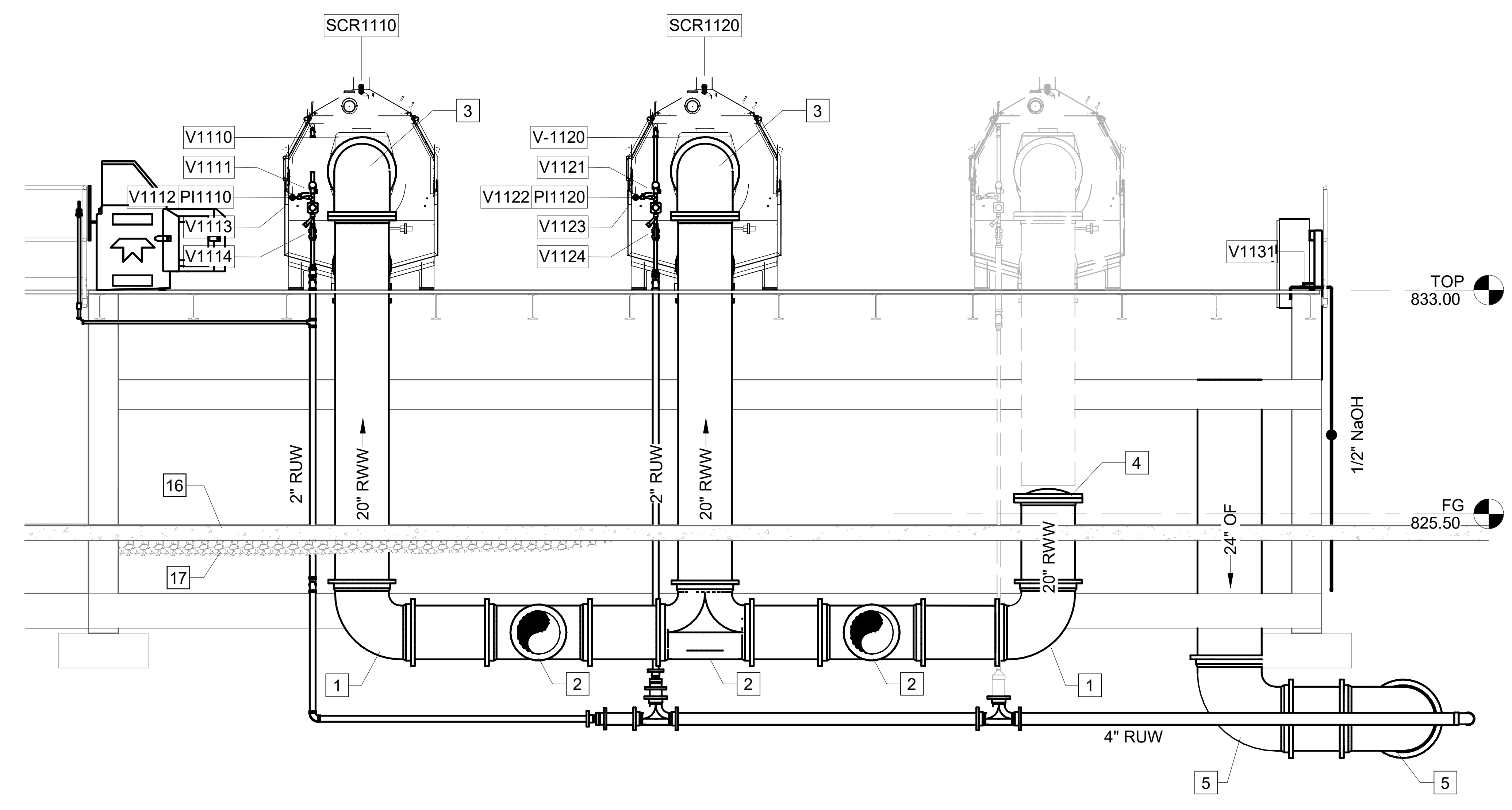
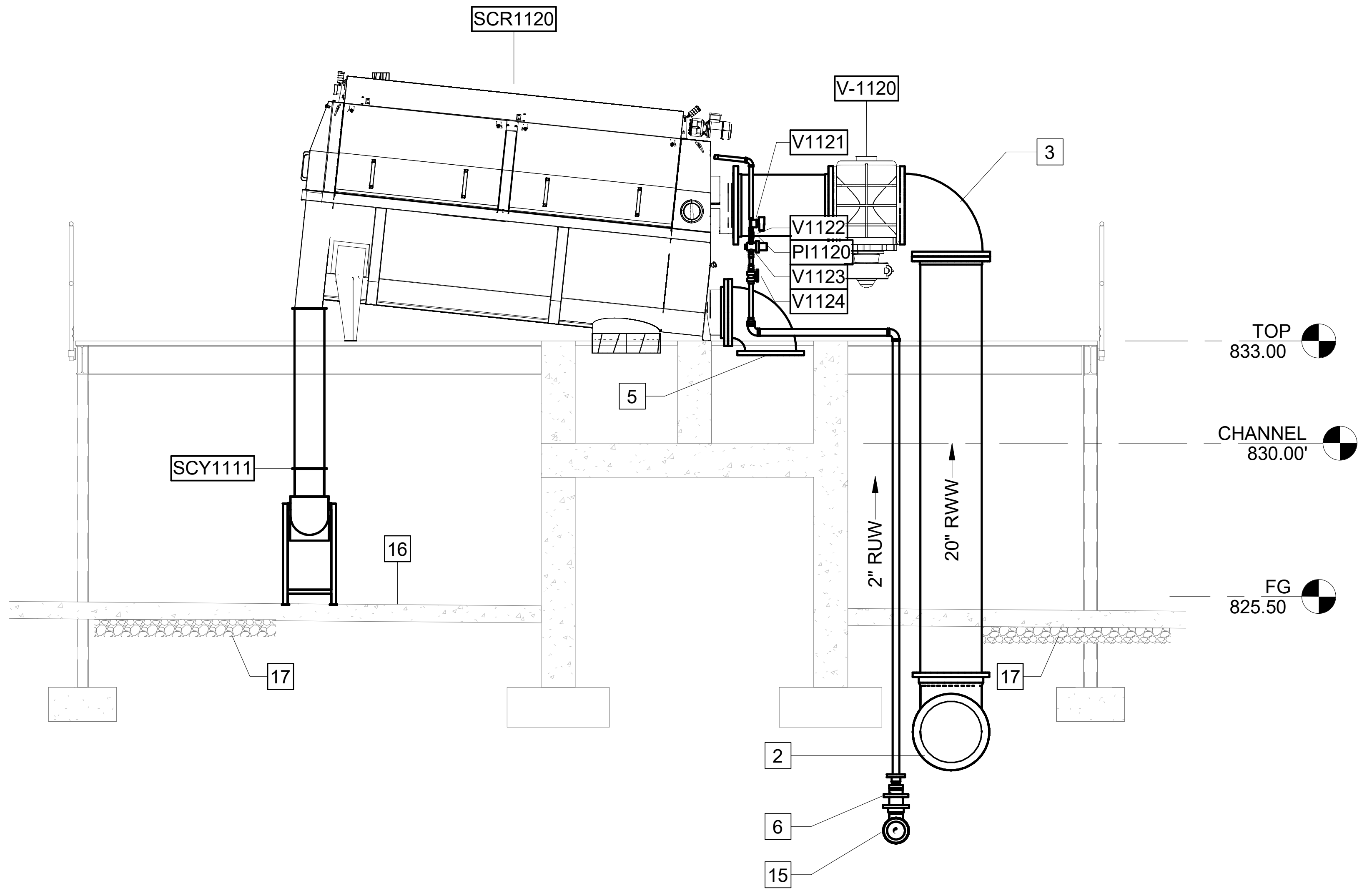
03.19.2025
GRAHAM S. SIZEMORE

HEADWORKS - UPPER PLAN

D-122



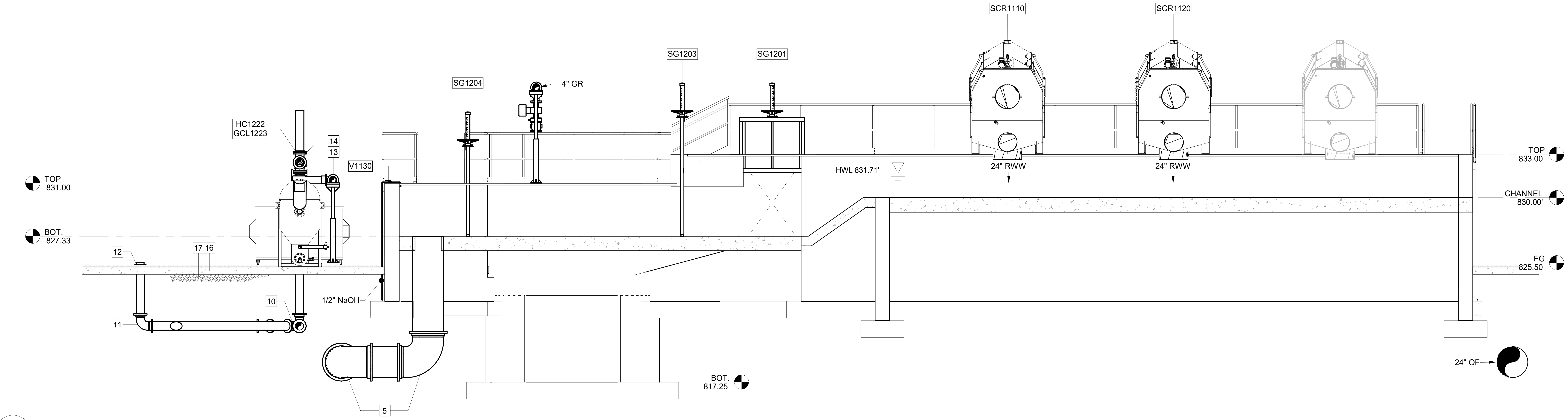
A **SECTION**
SCALE: 1/4" = 1'-0"



B **SECTION**
D-121
SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. 20" MJ 90° BEND
2. 20" MJ TEE
3. 20" FL 90° BEND
4. 20" FL BLIND
5. 24" MJ 90° BEND
6. 4" MJ TEE WITH PLUG, TAPPED 2" FOR RUW FEED TO SCREEN
7. 4" x 2" MJ REDUCER
8. 4" MJ TEE
9. 6" MJ TEE
10. 6" MJ WYE
11. 6" MJ 90° BEND
12. GRATE DRAIN STANDARD
13. 4" FL 90° BEND
14. 6" FL TEE
15. COUPLING/ADAPTER. TRANSITION FROM 4" D.I. TO 2" PVC
16. 6" CONCRETE PAVEMENT, #4 REBAR @ 12" O.C. EACH WAY, 3" CLEARANCE AT BOTTOM
17. 6" #57 STONE.



C **SECTION**
SCALE: 1/4" = 1'-0"

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Conformed Set	
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	HKD/CE

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PROFESSIONAL
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GRAHAM S. SIZEMORE

HEADWORKS - SECTIONS

D-123

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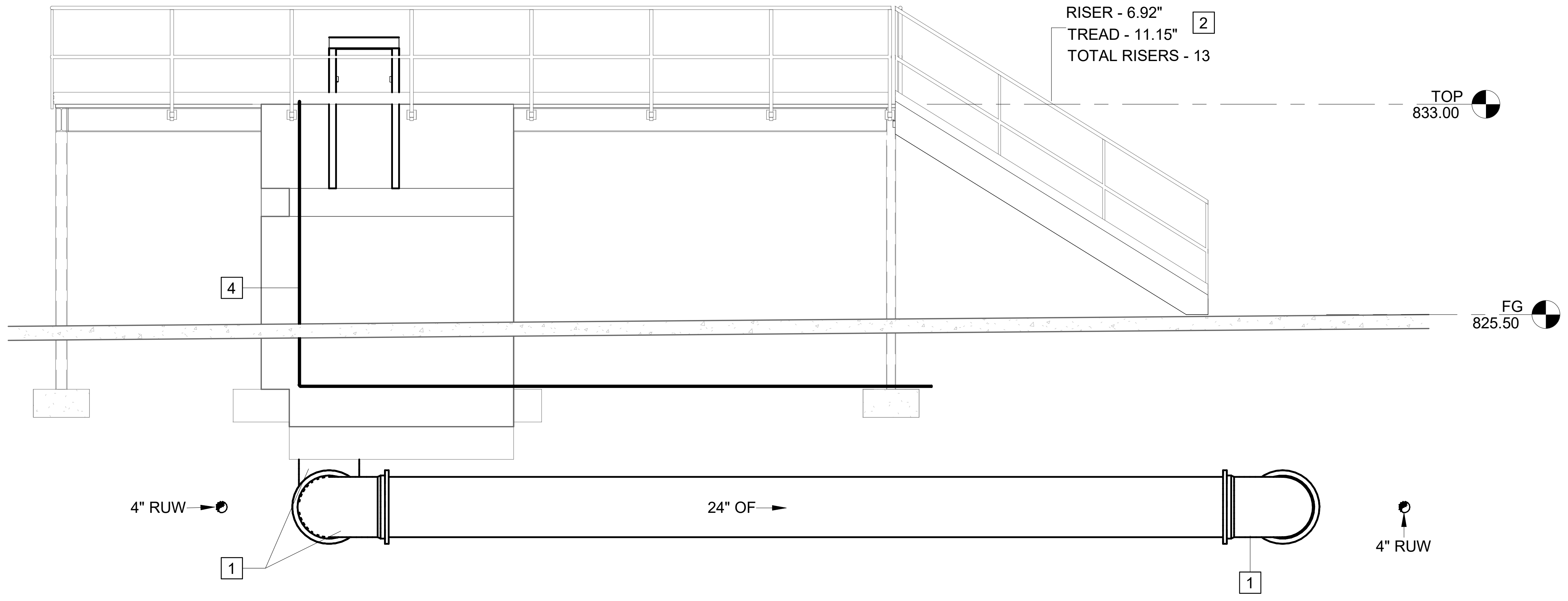
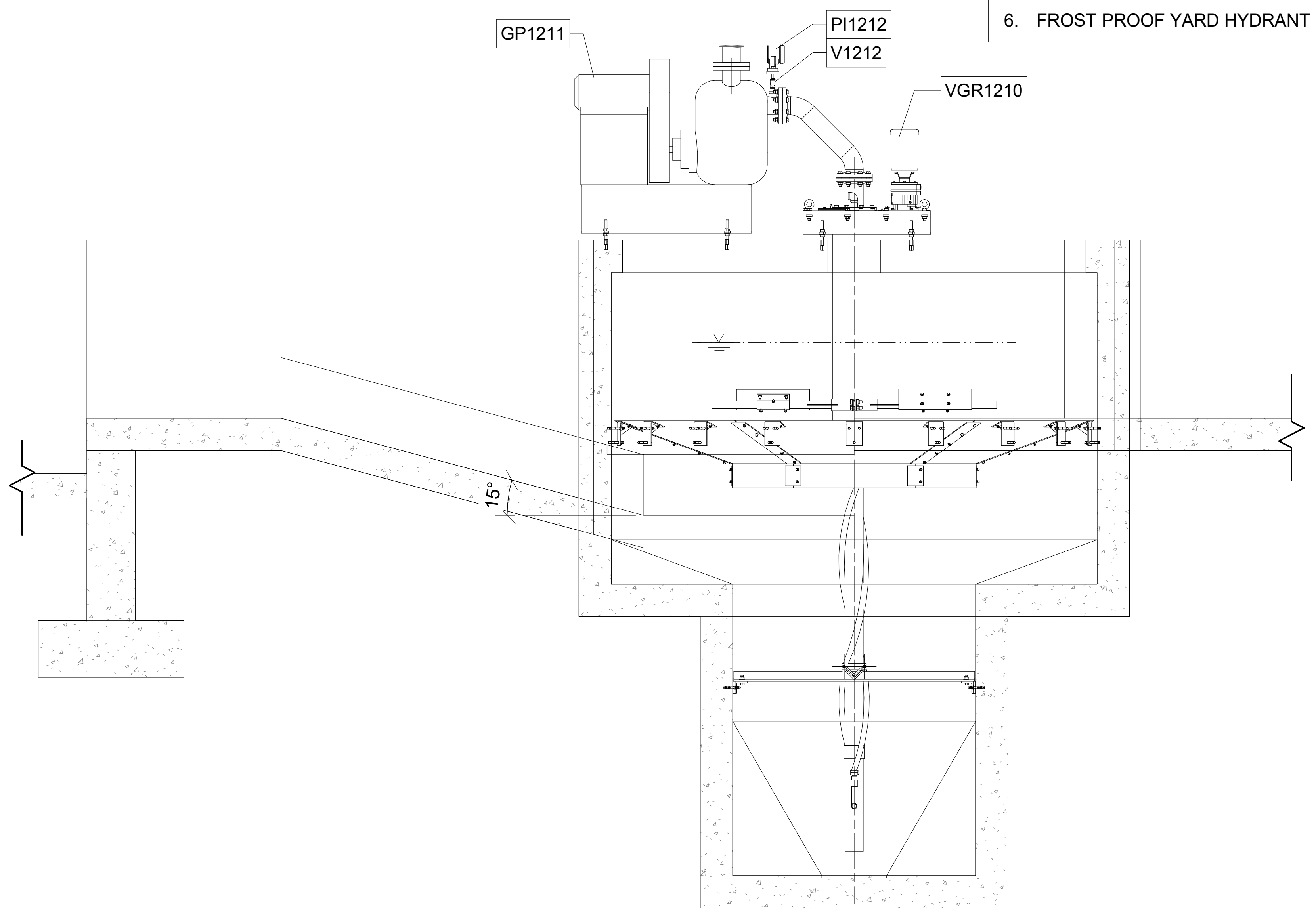
KEY NOTES: #

1. 24" MJ 90° BEND
2. METAL STAIRS W/ STAIR HAND RAILING
3. 4" FL 90° BEND
4. INSULATE AND HEAT TRACE ABOVE GROUND NaOH PIPING
5. DUMPSTER BY OWNER
6. FROST PROOF YARD HYDRANT



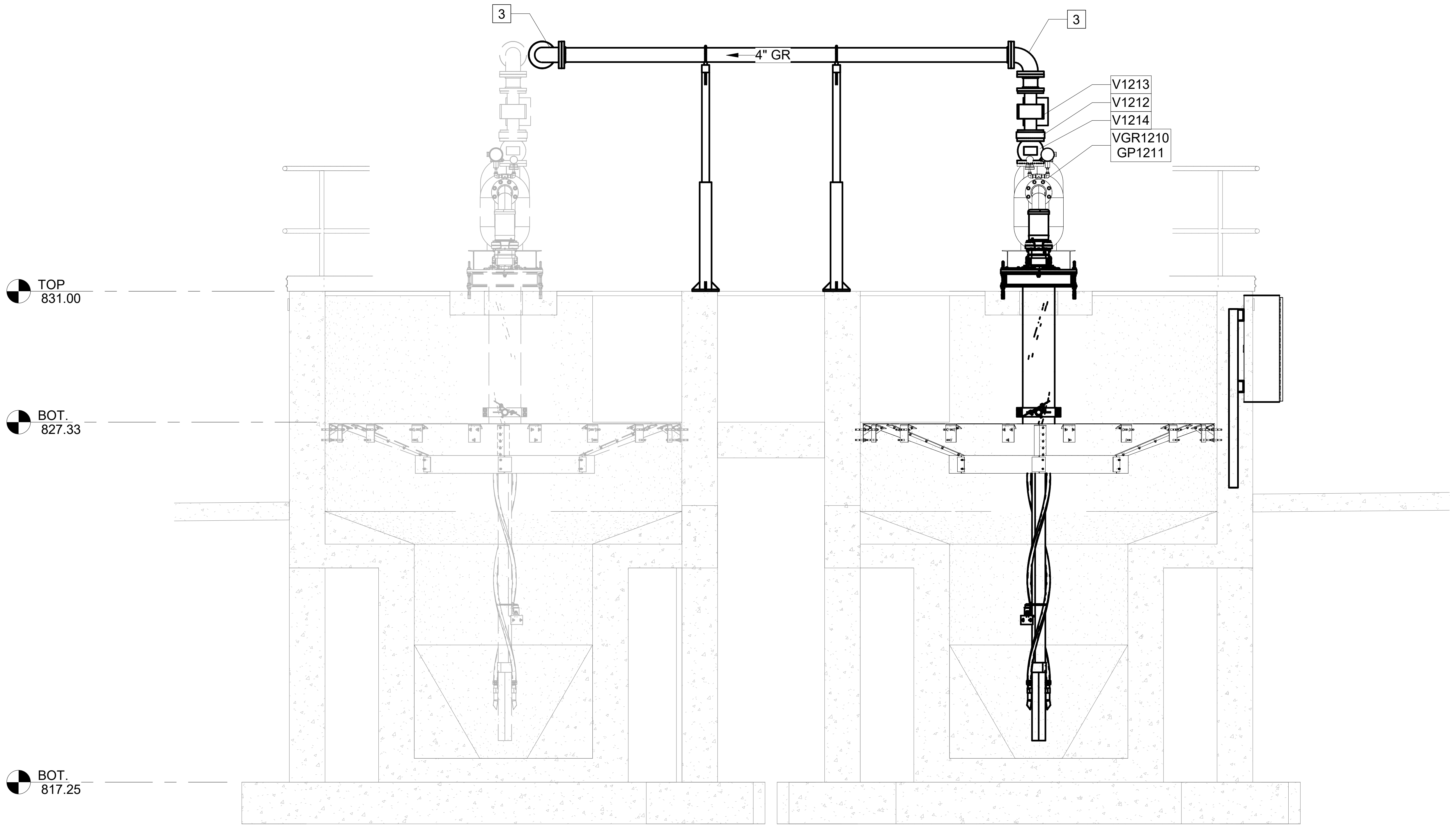
D **SECTION**

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



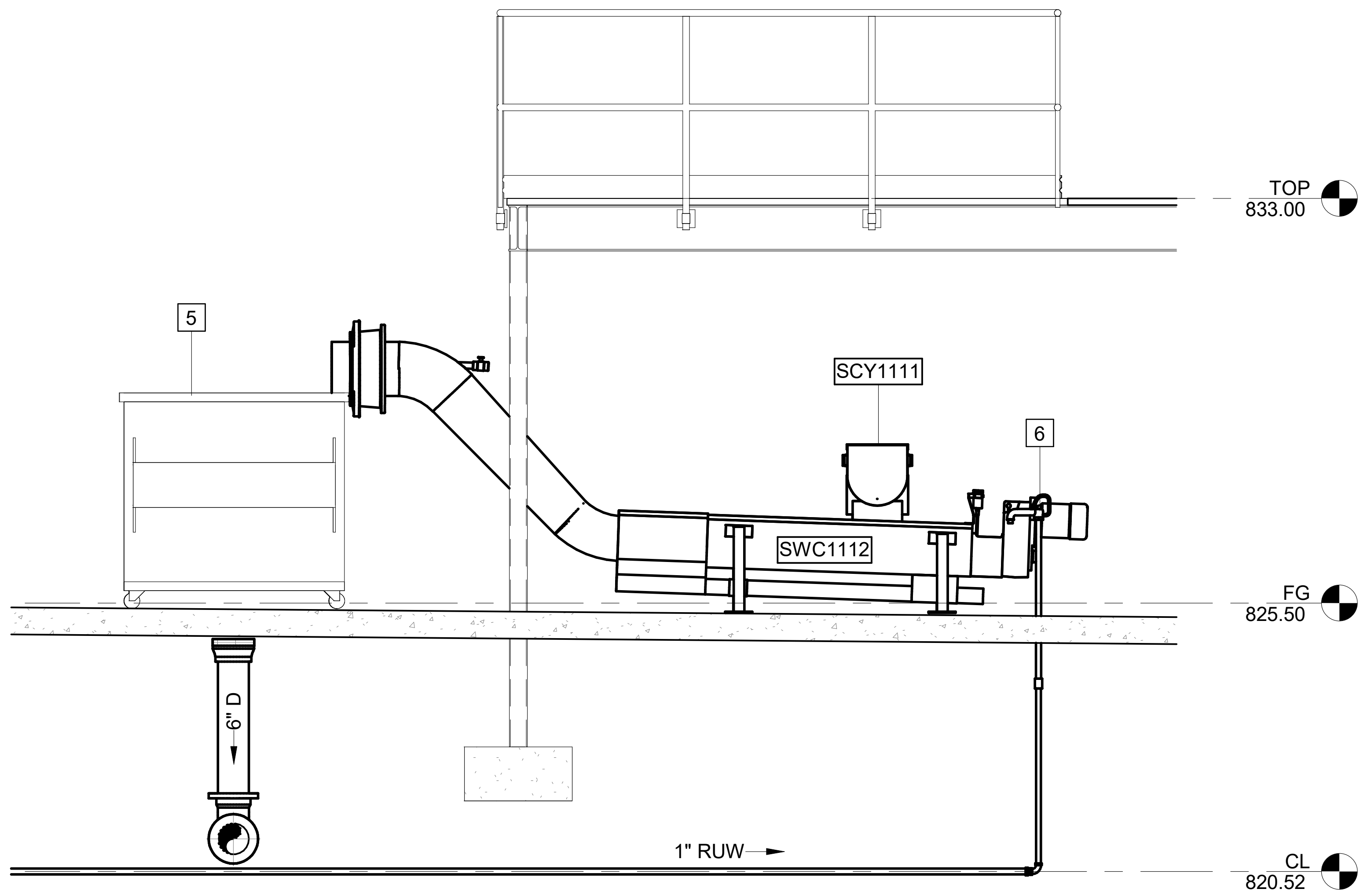
E D-121 **SECTION**

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



F D-121 **SECTION**

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



G D-121 **Section 123**

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

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Designer:	GS
Drawn By:	HKD/CE

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ROVE CREEK WPCP
OMMERCE, GA

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No. PE051452
Graham S. Sizemore
03.19.2025

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HEADWORKS - SECTIONS

D-124

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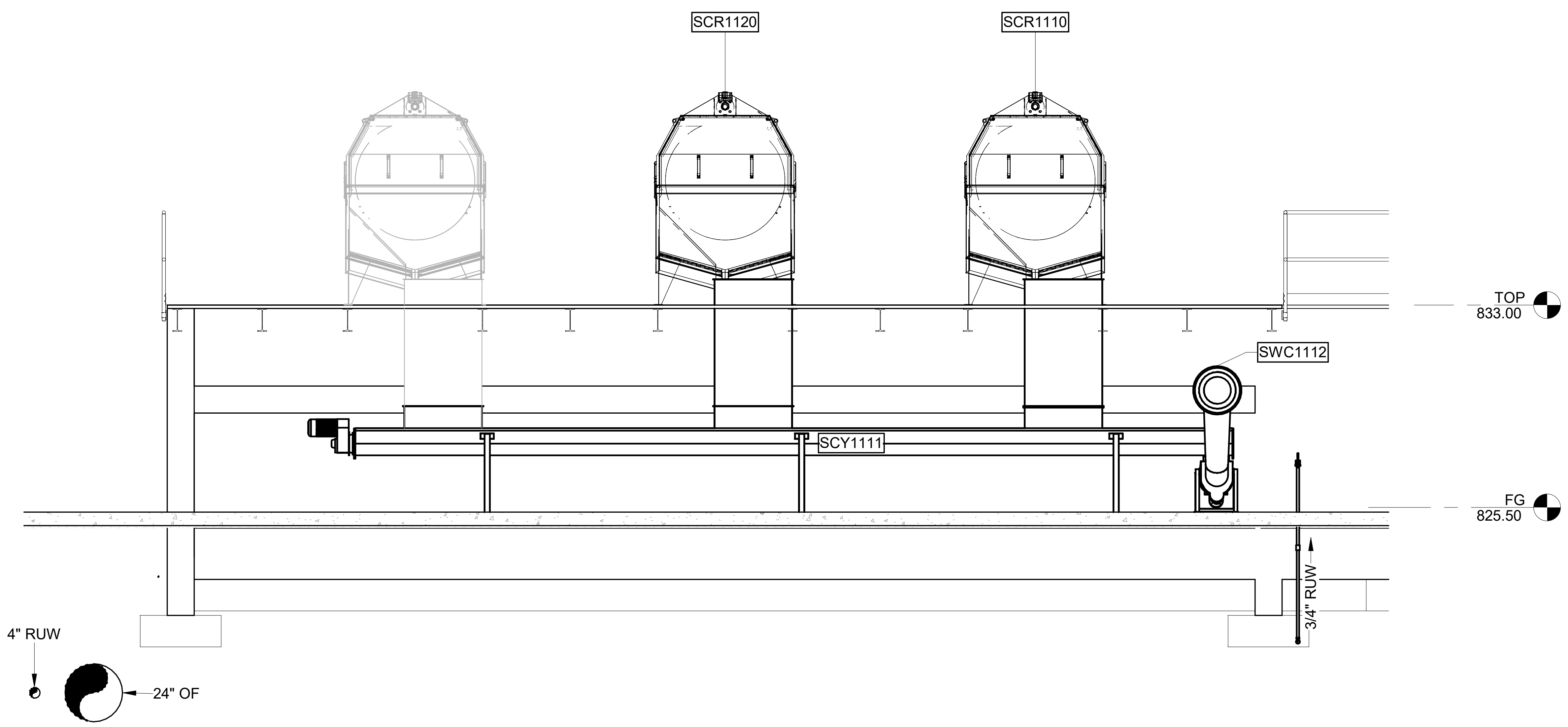
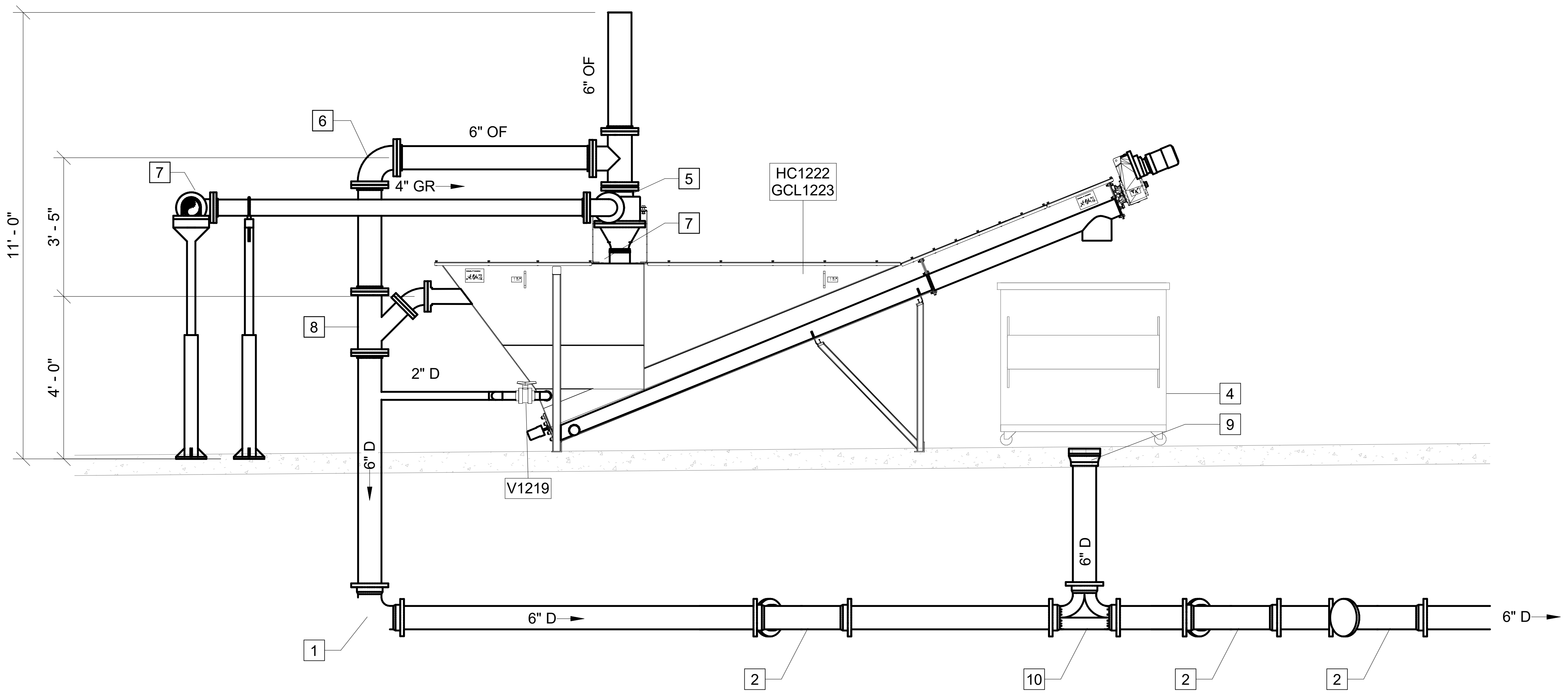


G SECTION

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



E SECTION

D-121

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

KEY NOTES: #

1. 6" MJ 90° BEND
2. 6" MJ WYE
3. 6" MJ TEE
4. DUMPSTER
5. 6" FL TEE
6. 6" FL 90° BEND
7. 4" FL 90° BEND
8. 4" FL WYE
9. STANDARD GRATE DRAIN

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Designer:	GS
Drawn By:	HKD/CE

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HEADWORKS - SECTIONS

D-125

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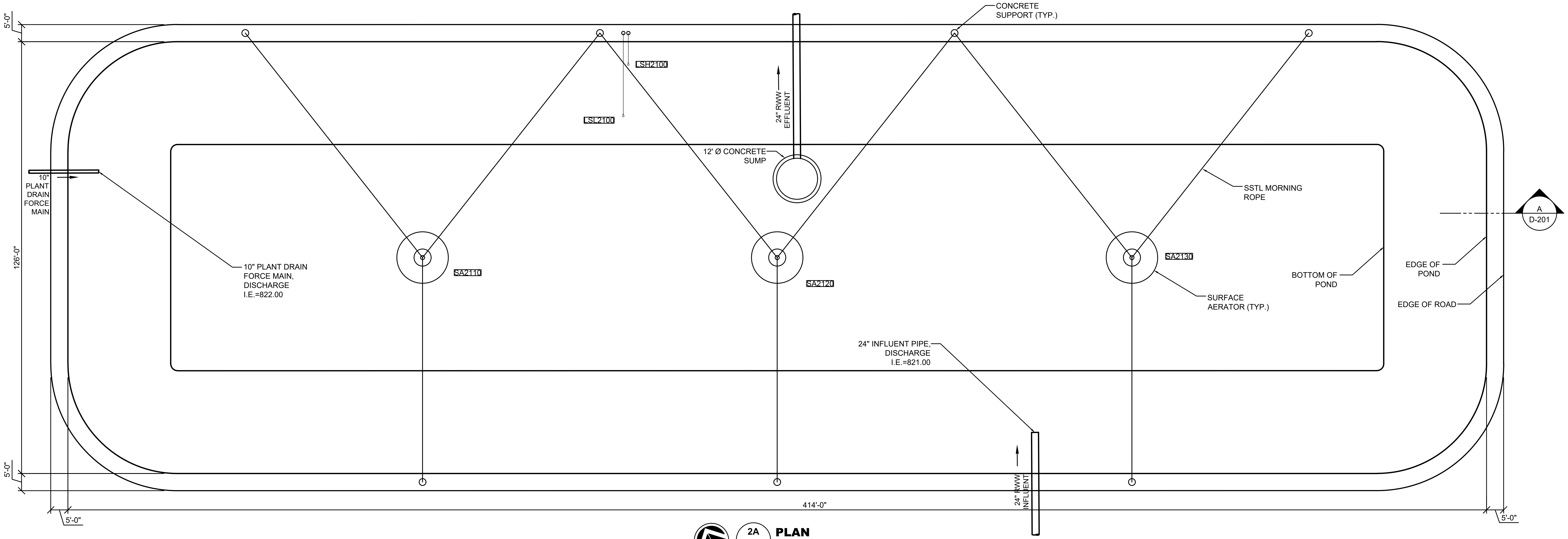
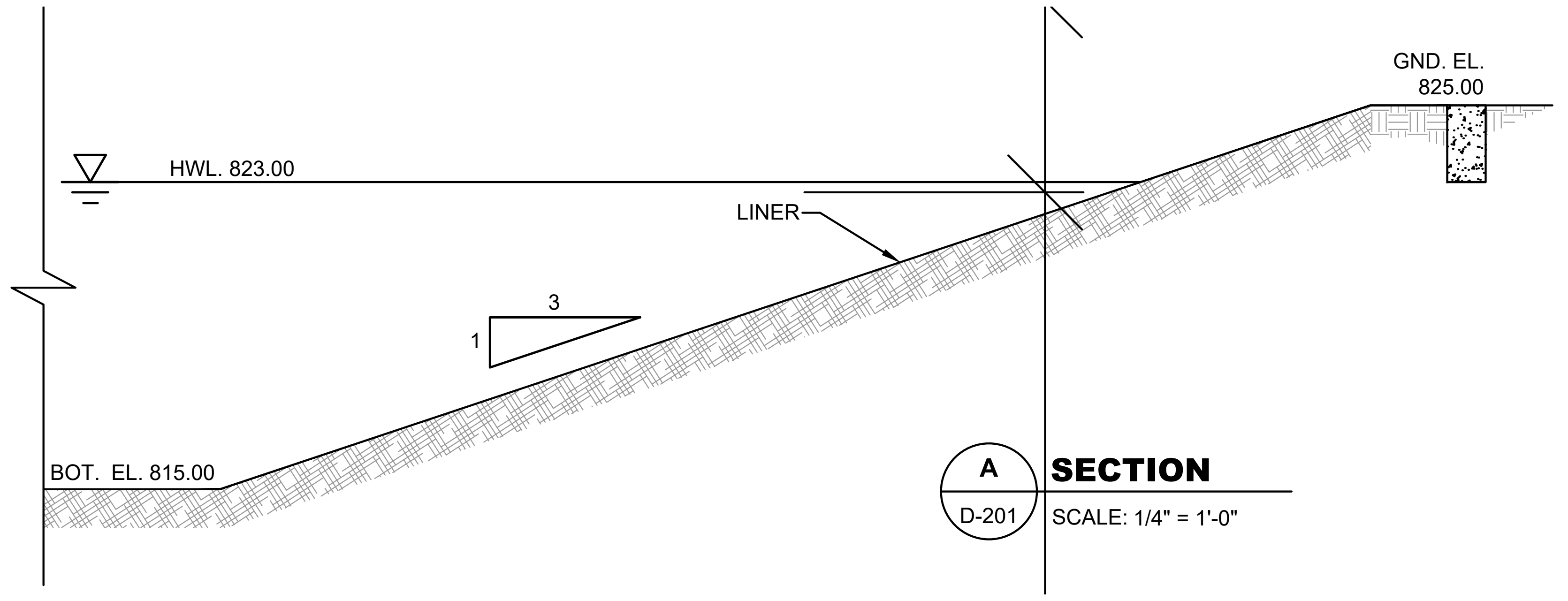


2A
D-201
PLAN
SCALE: 1/16" = 1'-0"



A
D-201
SECTION
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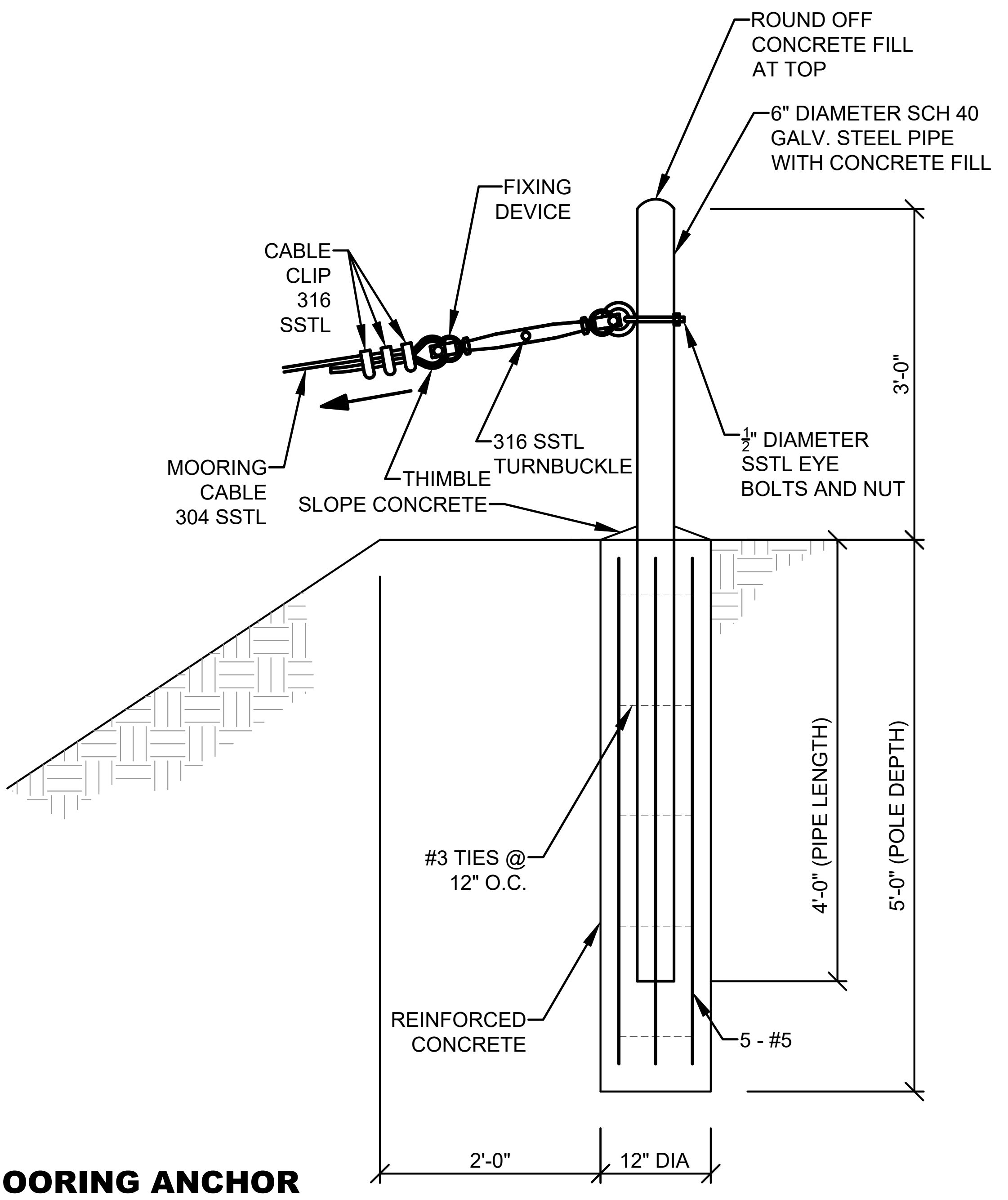
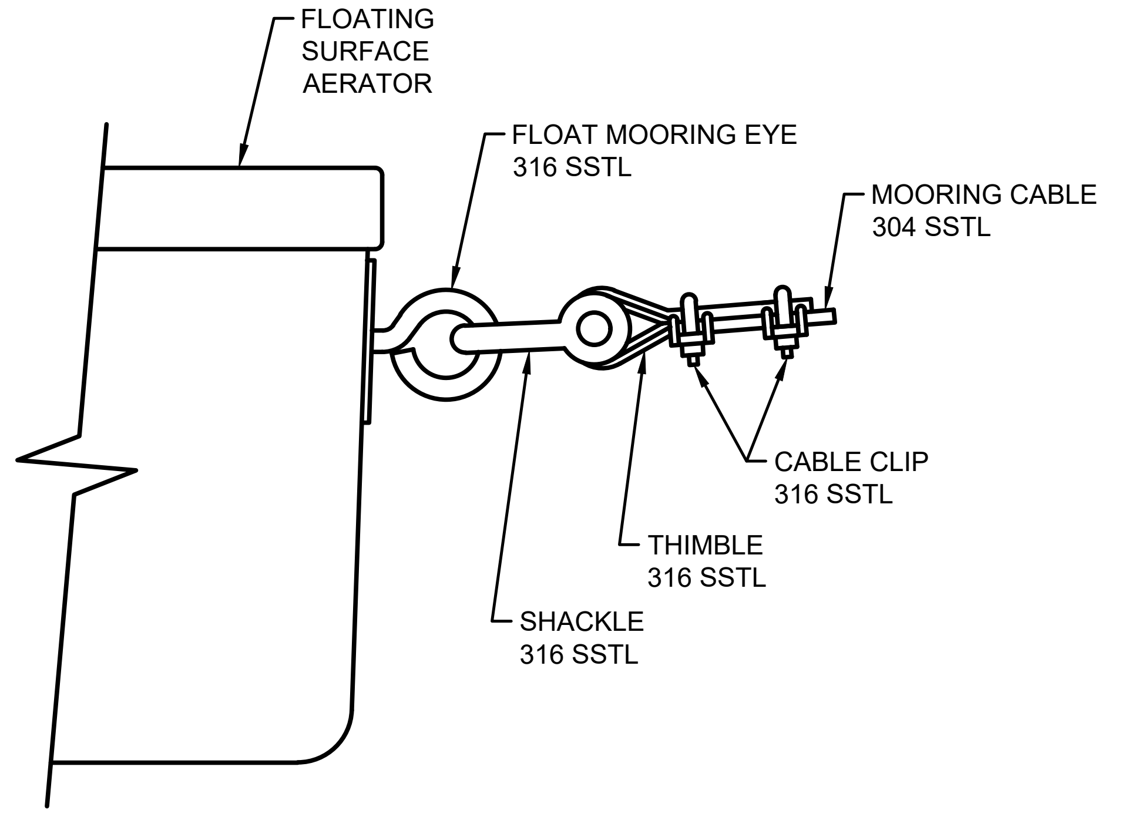
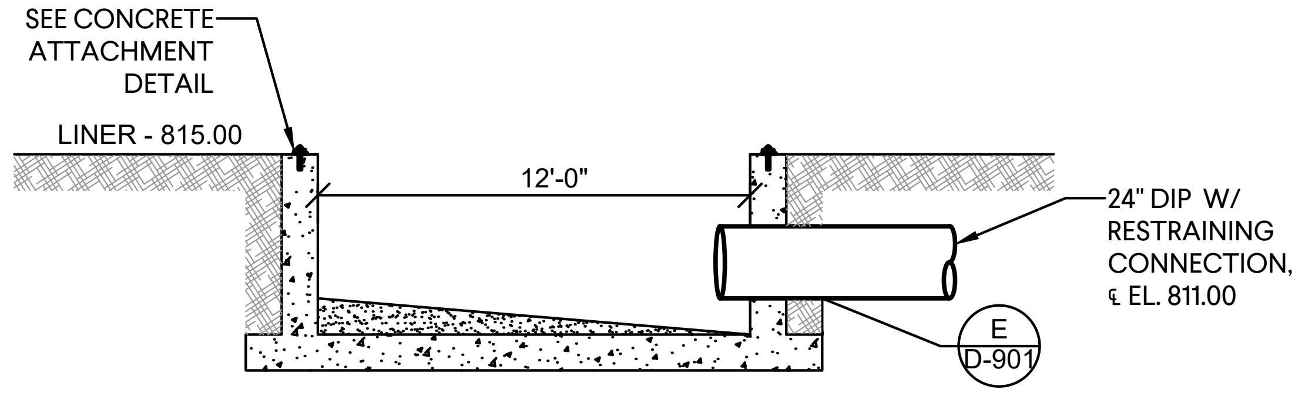




04
D-201
DETAIL - FLOAT MOORING DETAIL
SCALE: NOT TO SCALE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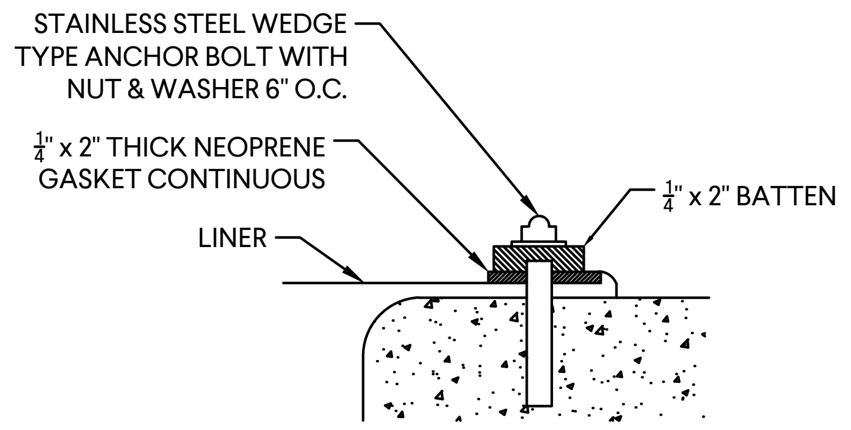
12'-0"
24" DIP W/ RESTRAINING CONNECTION, ℄ EL. 811.00
E
D-901


STAINLESS STEEL WEDGE TYPE ANCHOR BOLT WITH NUT & WASHER 6" O.C.
¼" x 2" THICK NEOPRENE GASKET CONTINUOUS
¼" x 2" BATTEN
LINER

01
D-201
CONCRETE SUMP DETAIL
SCALE: 3/16" = 1'-0"

02
D-201
CONCRETE ATTACHMENT
SCALE: N.T.S.

03
D-201
MOORING ANCHOR
SCALE: 3/4" = 1'-0"

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Drawn By:

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GROVE CREEK WPCP
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Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

EQUALIZATION BASIN PLAN, SECTION, & DETAILS

D-201

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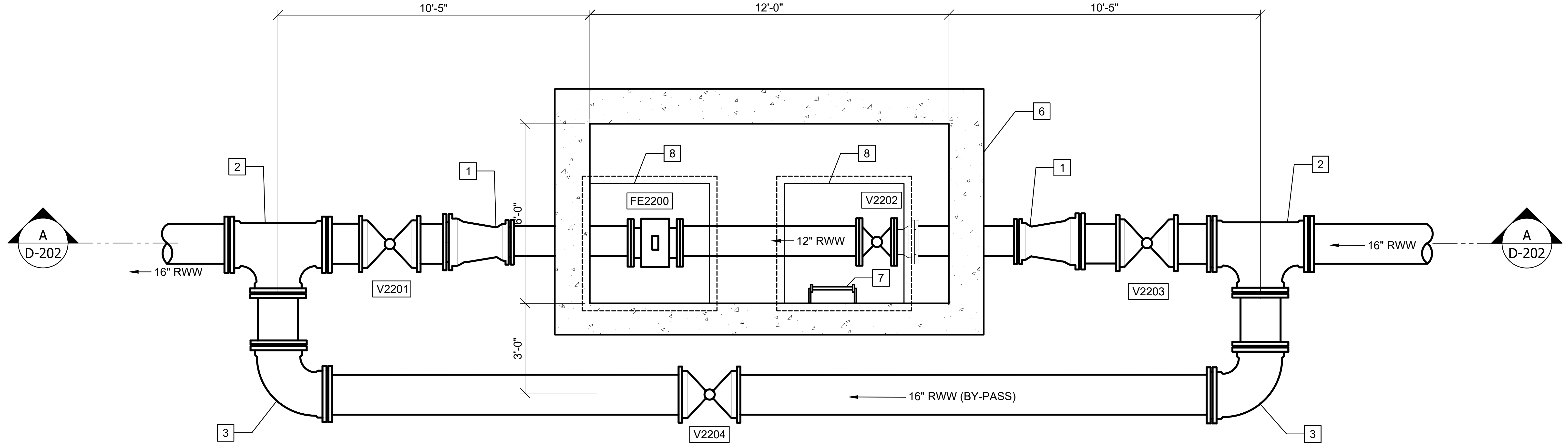
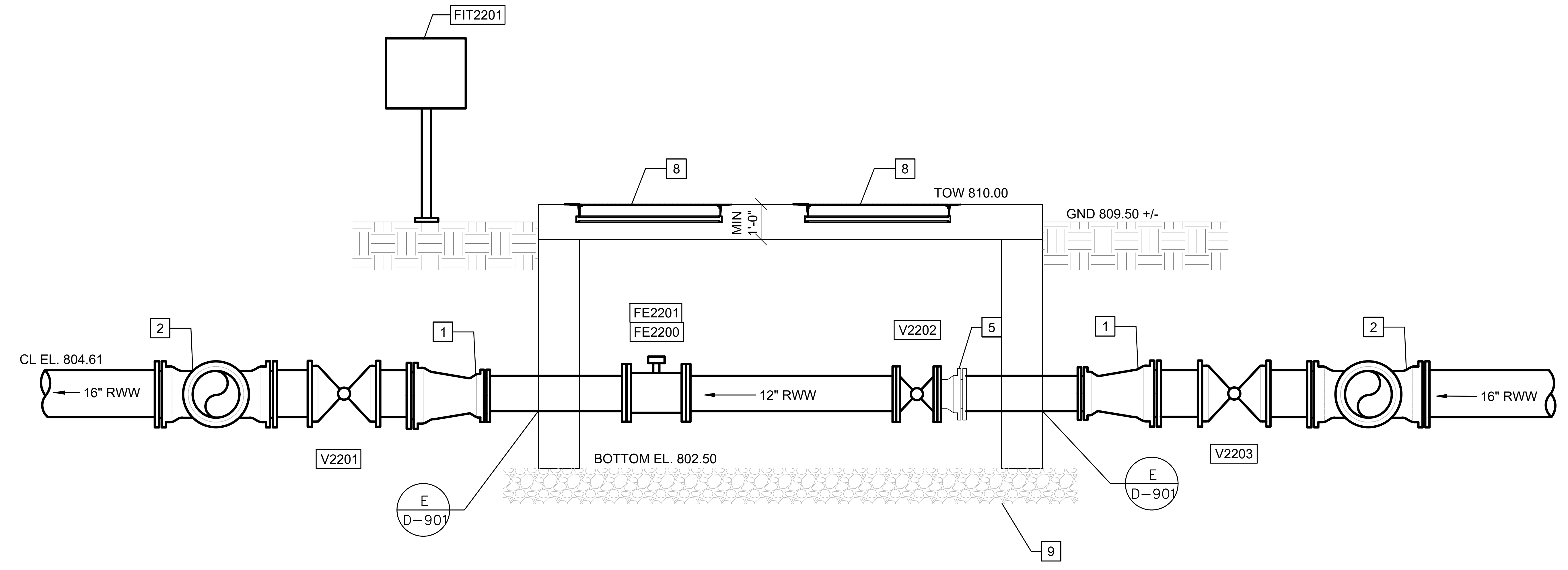


2B
D-211

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



A
D-211

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

KEY NOTES: #

ALL CONNECTIONS SHALL BE RESTRAINED

1. 12" X 16" MJ REDUCER
2. 16" MJ TEE
3. 16" MJ 90° BEND
4. FLEXIBLE COUPLING W/ TIE RODS
5. 12" COUPLING JOINT
6. 12'-0" X 6'-0" PRE-CAST CONCRETE VALVE VAULT
7. ACCESS STEPS
8. 48" X 48" ALUMINUM HATCH
9. MIN 6" #57 STONE BASE

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1" .5" 0" 1"

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
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Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

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03.19.2025
GRAHAM S. SIZEMORE

CATL230033

FLOW CONTROL VALVE PLAN & SECTION

D-211

DRAWING FILE: C:\Users\GSIZEM~1\AppData\Local\Temp\AcPublish_29044\D-211 Flow Control Vault.dwg
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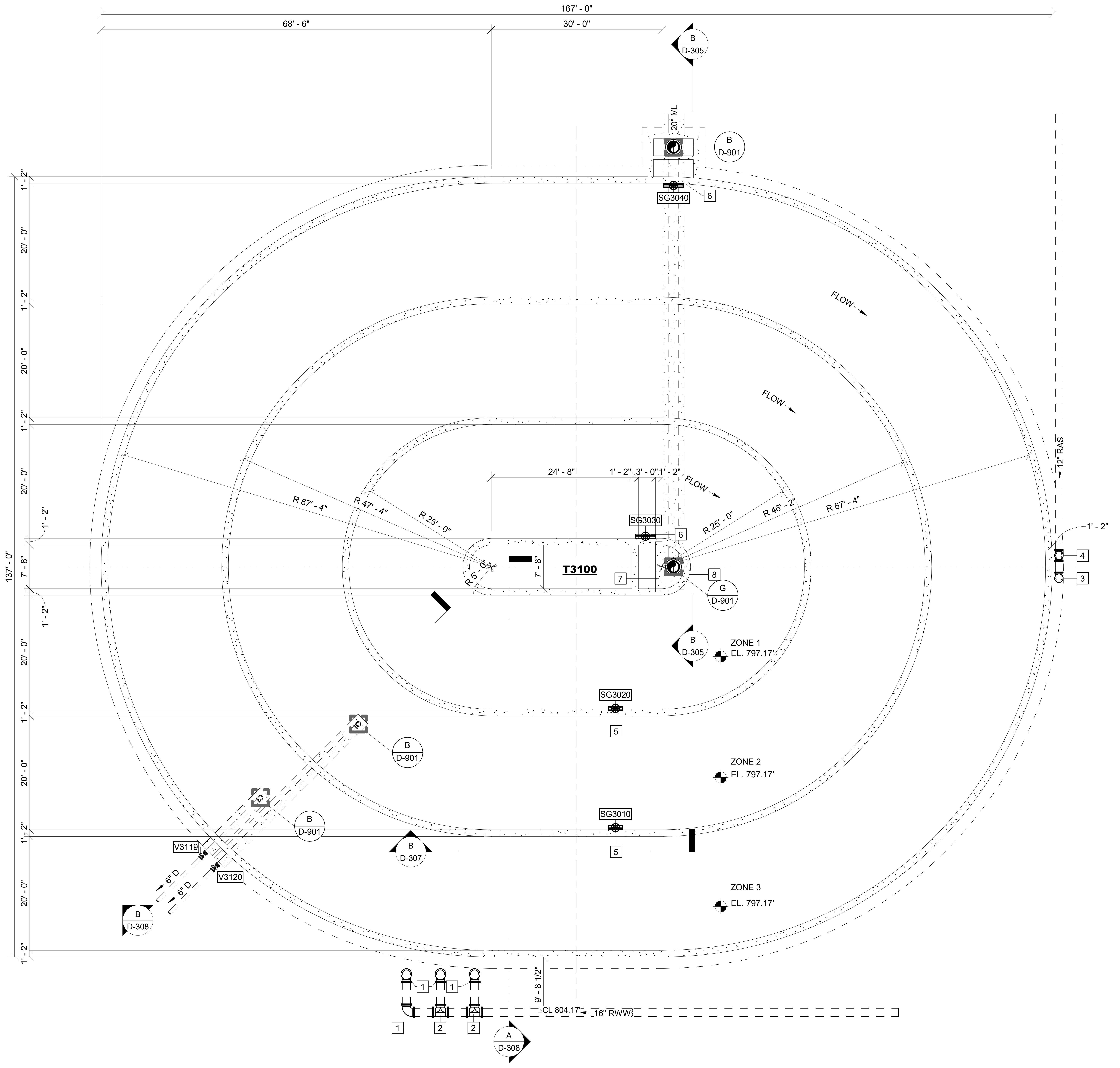
KEY NOTES: #

1. 16" MJ 90° BEND
2. 16" MJ TEE
3. 12" MJ 90° BEND
4. 12" MJ TEE
5. 54" X 24" TRANSFER PORT
6. 36" SQ. TRANSFER PORT
7. LOW WEIR
8. OVERFLOW WEIR



3A
D-301

LOWER PLAN

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

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STATE OF GEORGIA
GOODWYN MILLS CAWOOD, LLC
No. PEF007898
Exp.06.30.2026
CERTIFICATE OF AUTHORIZATION

1" 0" .5" 1"

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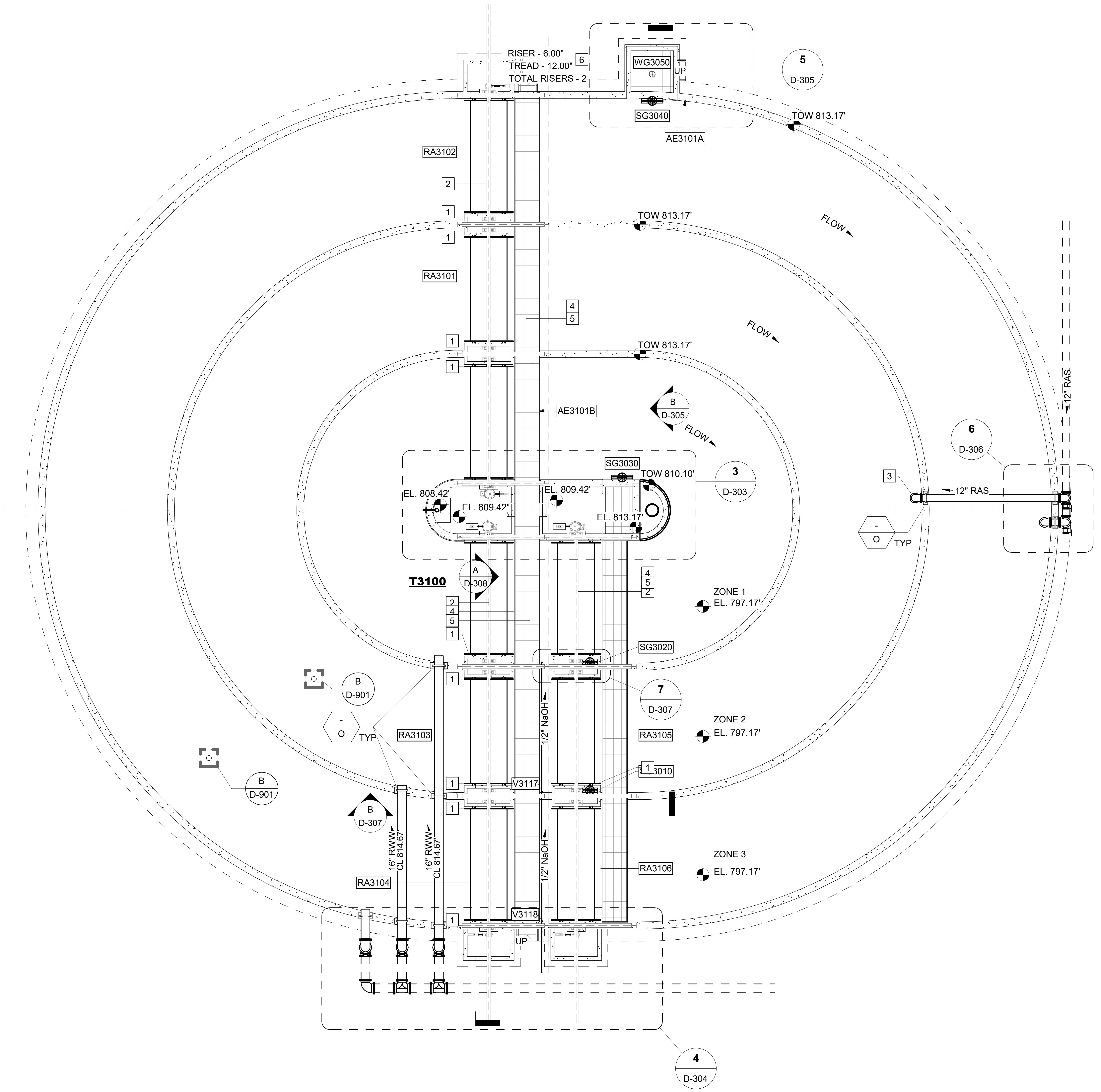
03.19.2025
ENGINEER
GRAHAM S. SIZEMORE

ORBAL AERATION -
LOWER PLAN

D-301

KEY NOTES: #

1. SPLASH SHIELD
2. TROLLEY BEAM. SEE STRUCTURAL
3. 12" 90° FL BEND
4. 3' -6" ALUMINUM HANDRAILS W/ TOE PLATES
5. GRATING WALKWAY
6. PRECAST STAIRS W/ ALUMINUM HANDRAILS



3B
D-302

UPPER PLAN

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

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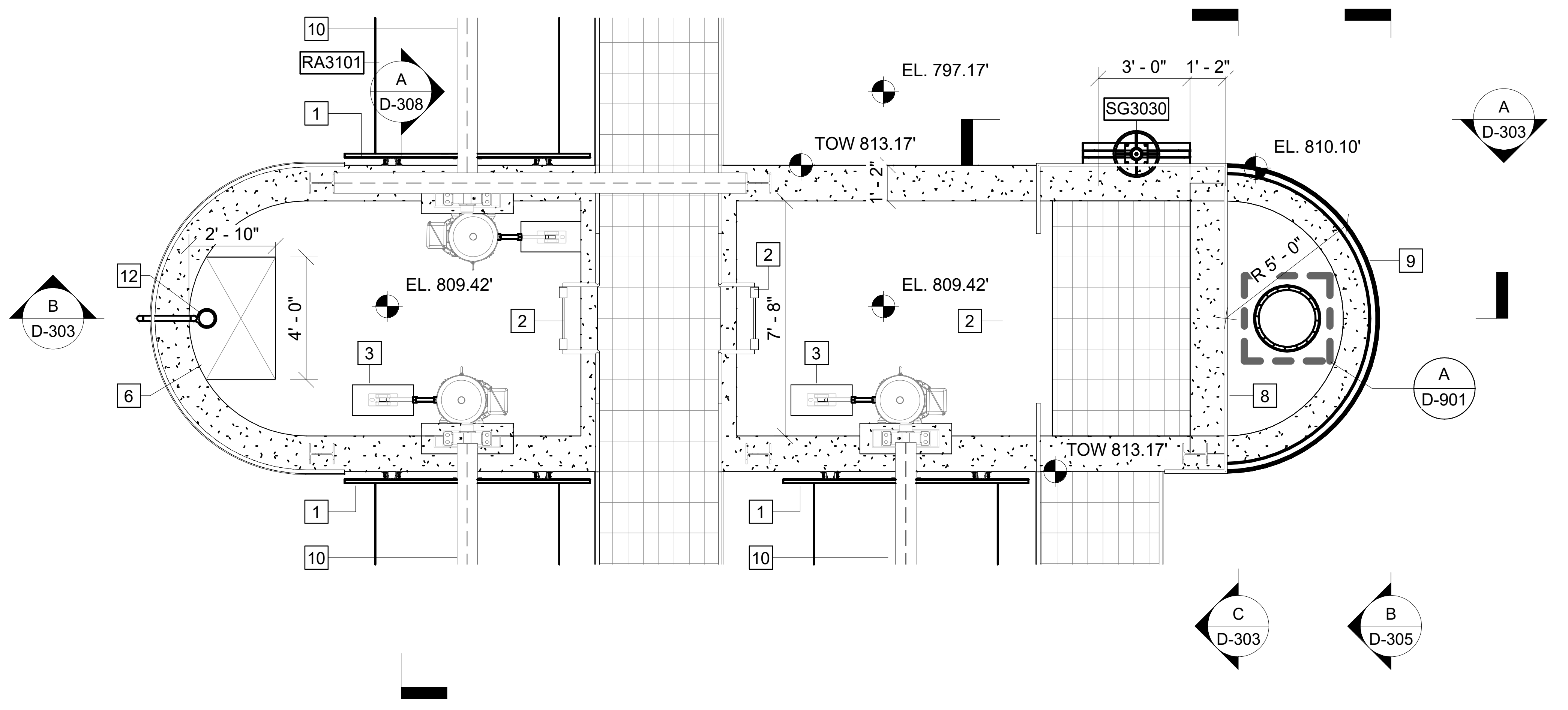
03.19.2025
GRAHAM S. SIZEMORE

ORBAL AERATION - UPPER PLAN

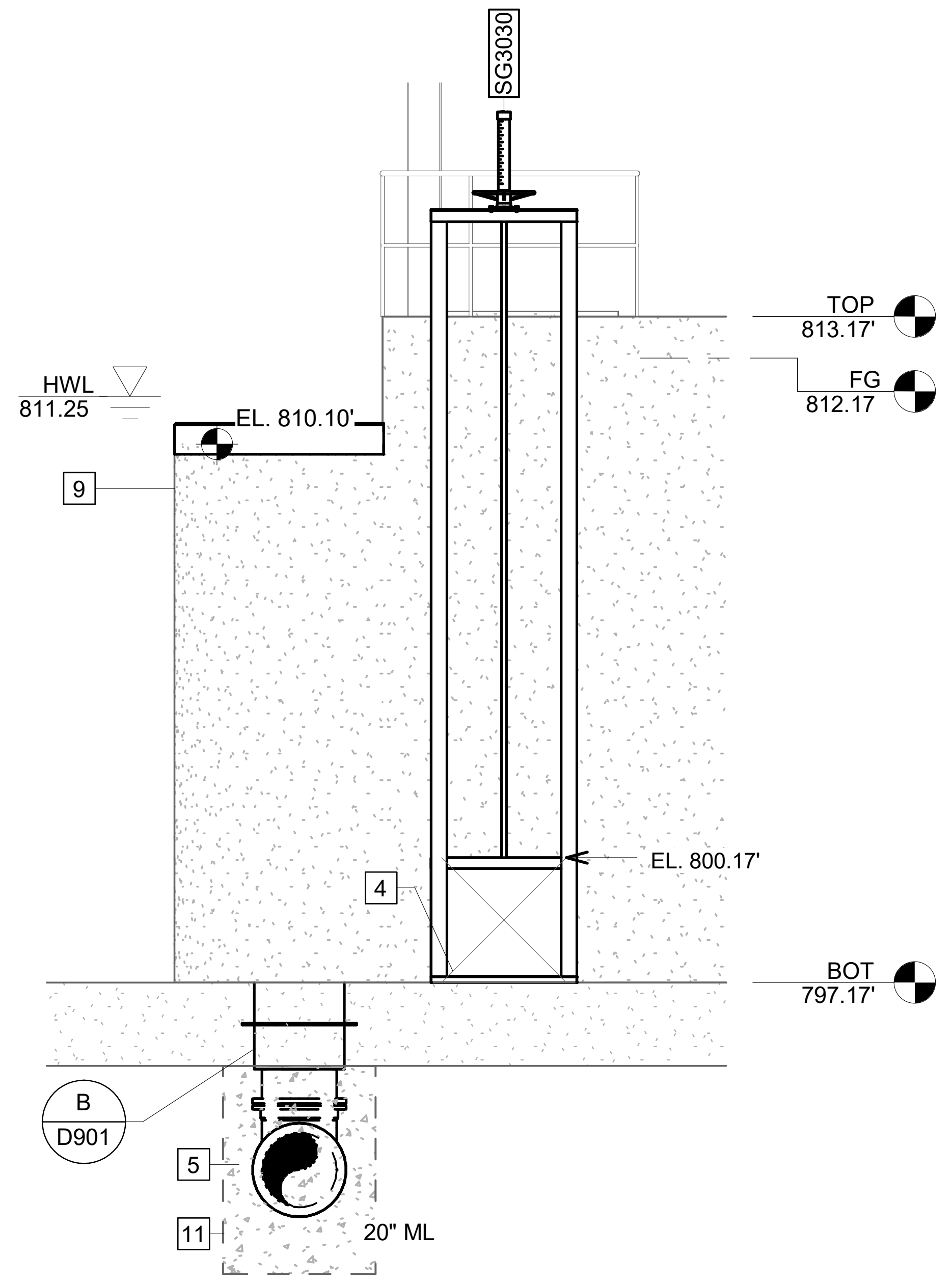
D-302

KEY NOTES: #

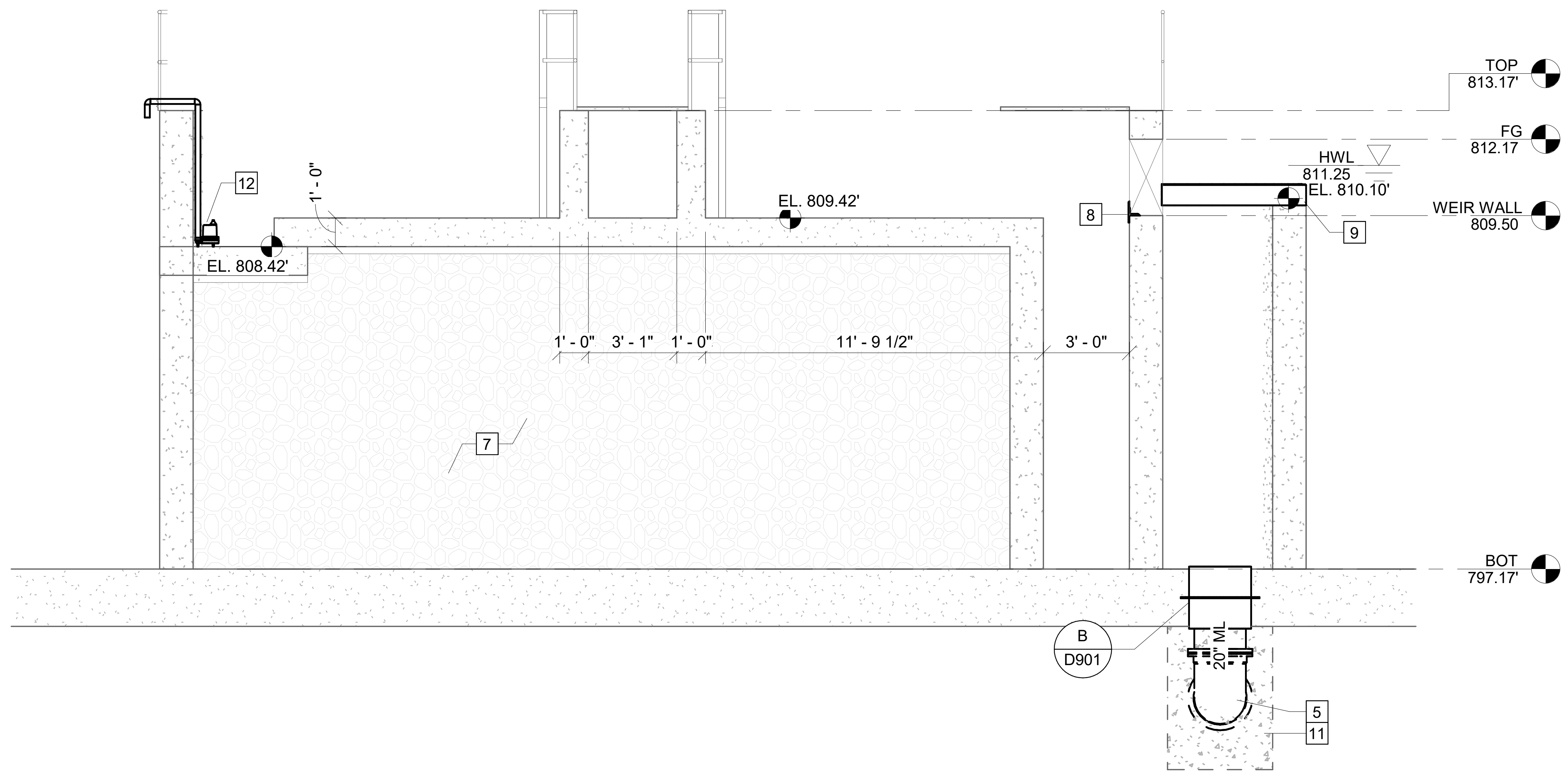
1. SPLASH SHIELD
2. 4' LADDER
3. 24" X 12" X 15" CONCRETE PEDESTAL FOR DRIVE SUPPORT
4. 36" SQ. TRANSFER PORT
5. 20" MJ 90° BEND
6. SUMP
7. FILL WITH #57 STONE
8. LOW WEIR
9. OVERFLOW WEIR
10. TROLLEY BEAM. SEE STRUCTURAL
11. CONCRETE ENCASEMENT
12. SUMP PUMP W/ ON/OFF FLOW SWITCH



3 CENTER ISLAND
D-302
SCALE: 1/4" = 1'-0"



A SECTION
D-303
SCALE: 1/4" = 1'-0"



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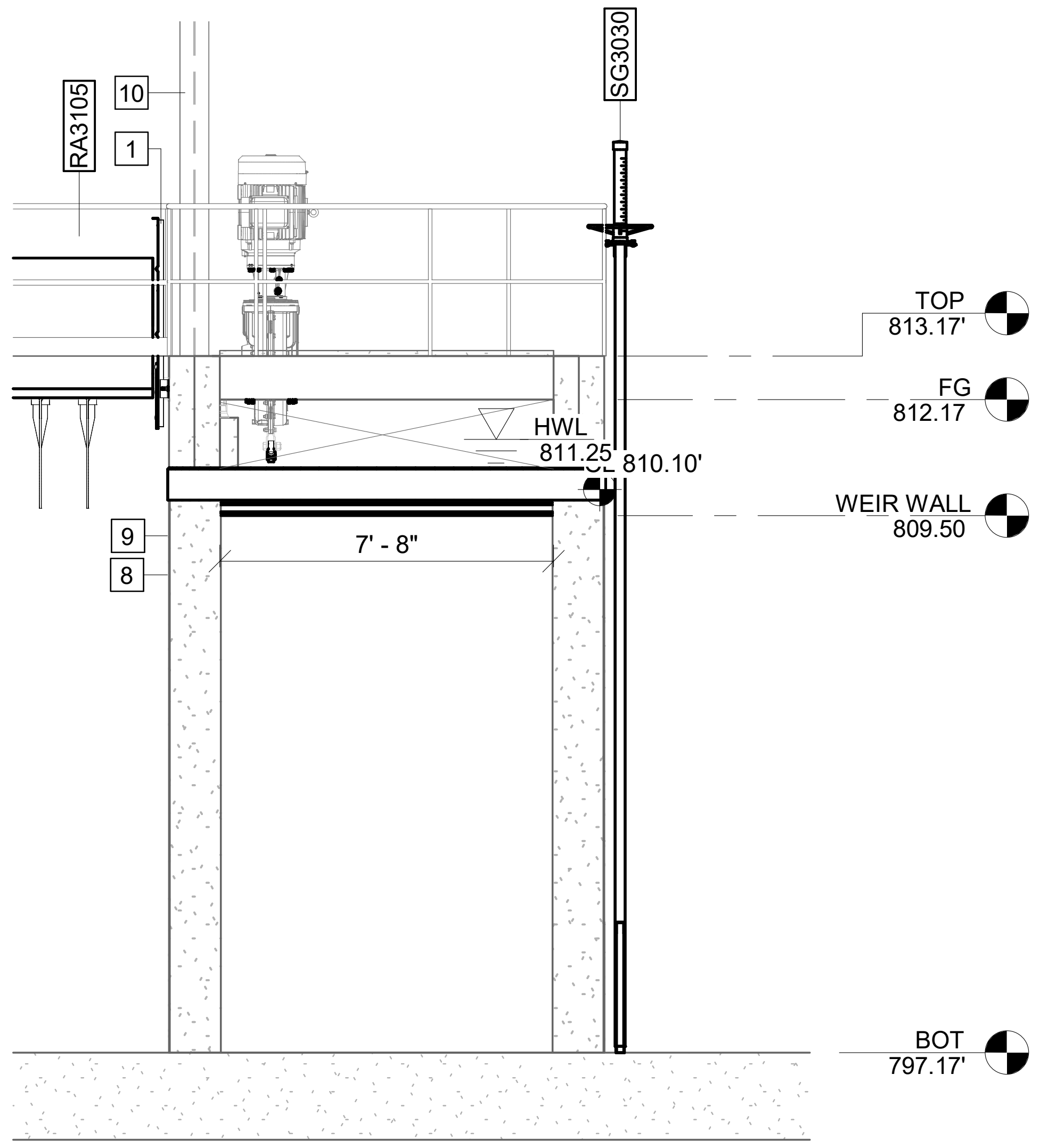
D-303
SCALE: 1/4" = 1'-0"



C SECTION
D-303
SCALE: 1/4" = 1'-0"

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1"
.5"
0"
1"

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ORBAL AERATION - CENTER ISLAND PLAN AND SECTIONS

D-303

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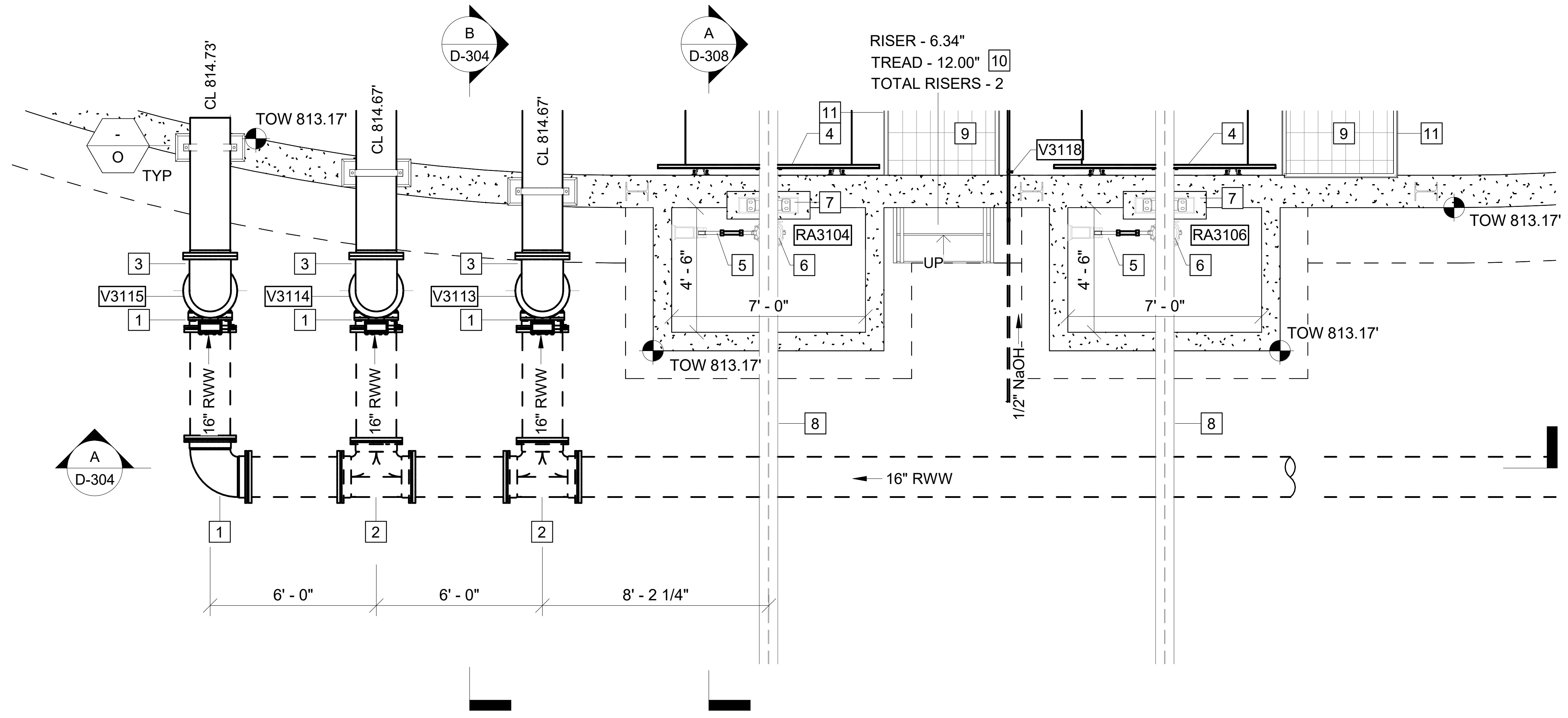
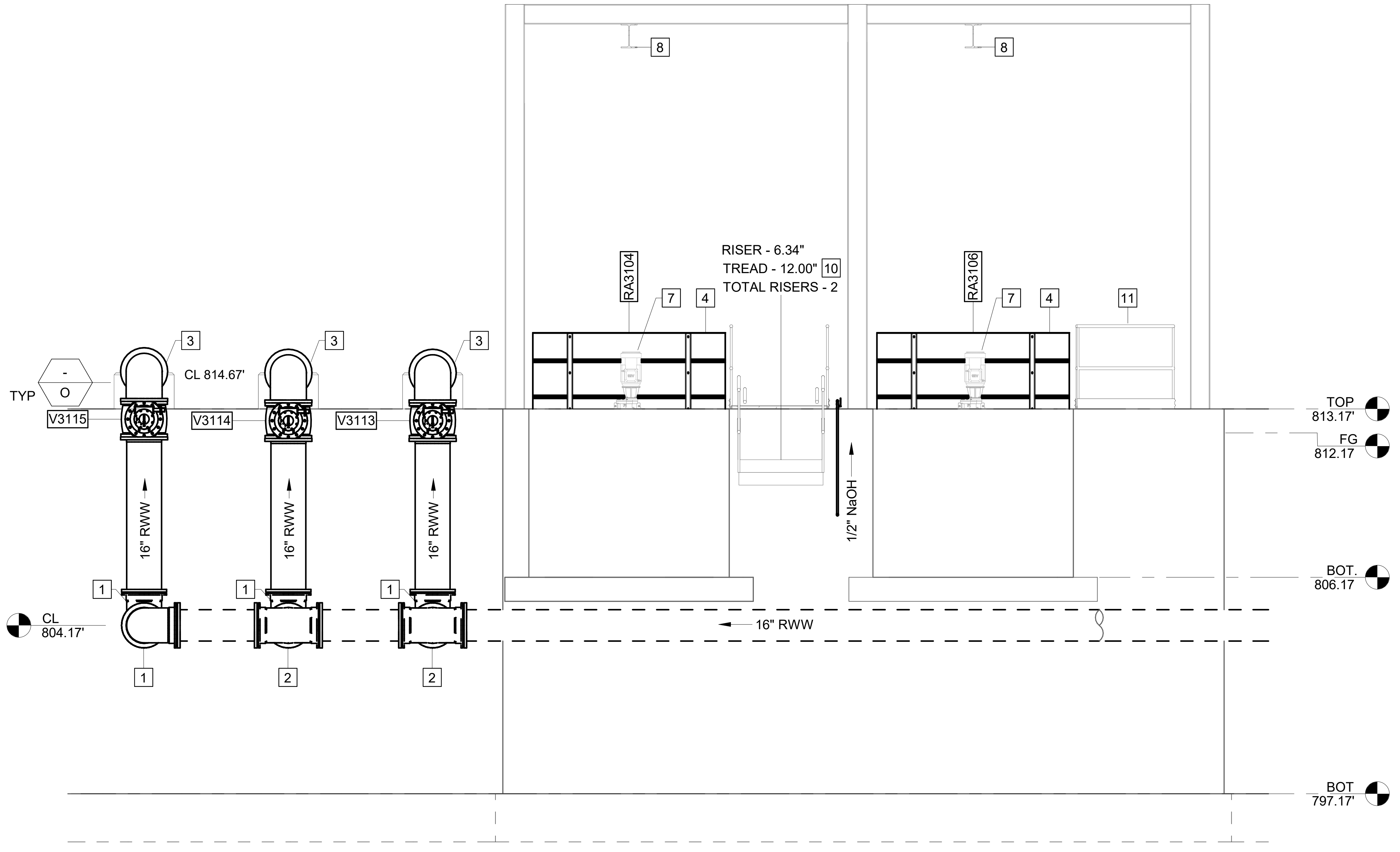


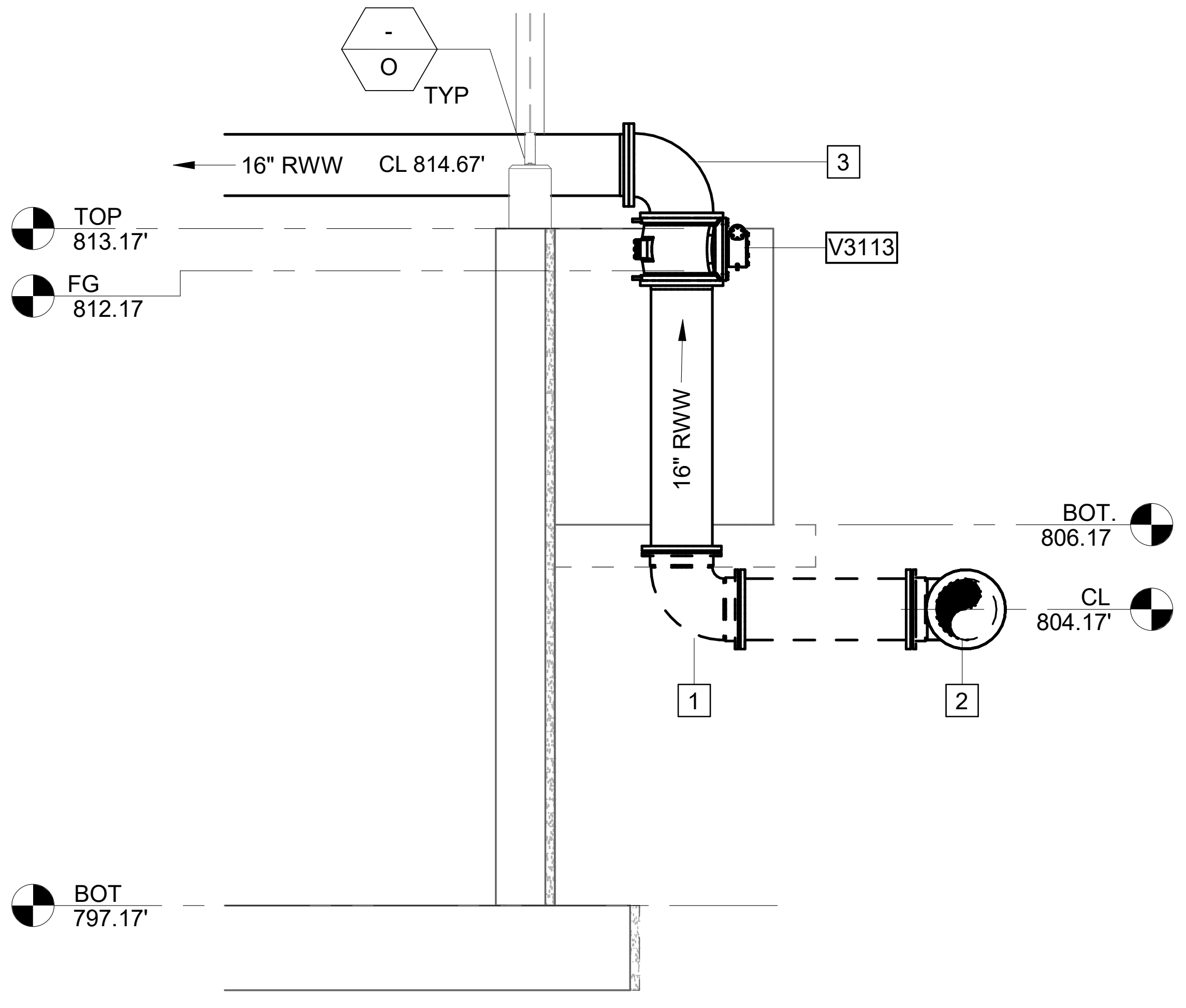
4 INFLUENT PIPING
D-302
SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. 16" MJ 90° BEND
2. 16" MJ TEE
3. 16" FL 90° BEND
4. SPLASH SHIELD
5. TORQUE ARM
6. DRIVE ASSEMBLY
7. 30HP DRIVE MOTOR
8. TROLLEY BEAM. SEE STRUCTURAL
9. GRATING
10. PRECAST STAIRS W/ ALUMINUM HANDRAILS
11. 3'-6" ALUMINUM HANDRAILS W/ TOE PLATES



A SECTION
D-304
SCALE: 1/4" = 1'-0"



B SECTION
D-304
SCALE: 1/4" = 1'-0"

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1"
.5"
0"
1"

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ORBAL AERATION - INFLUENT PIPING PLAN AND SECTIONS

D-304

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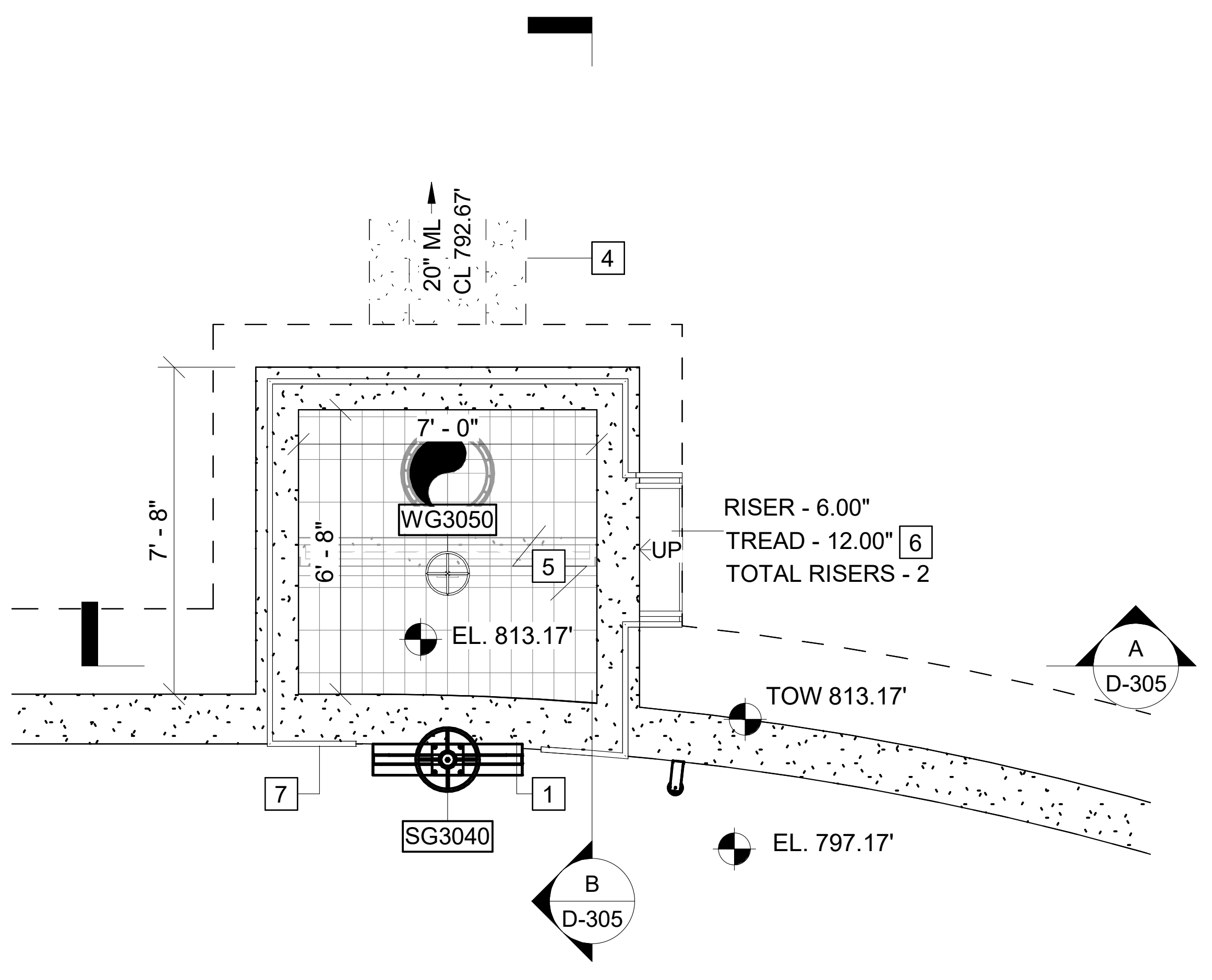
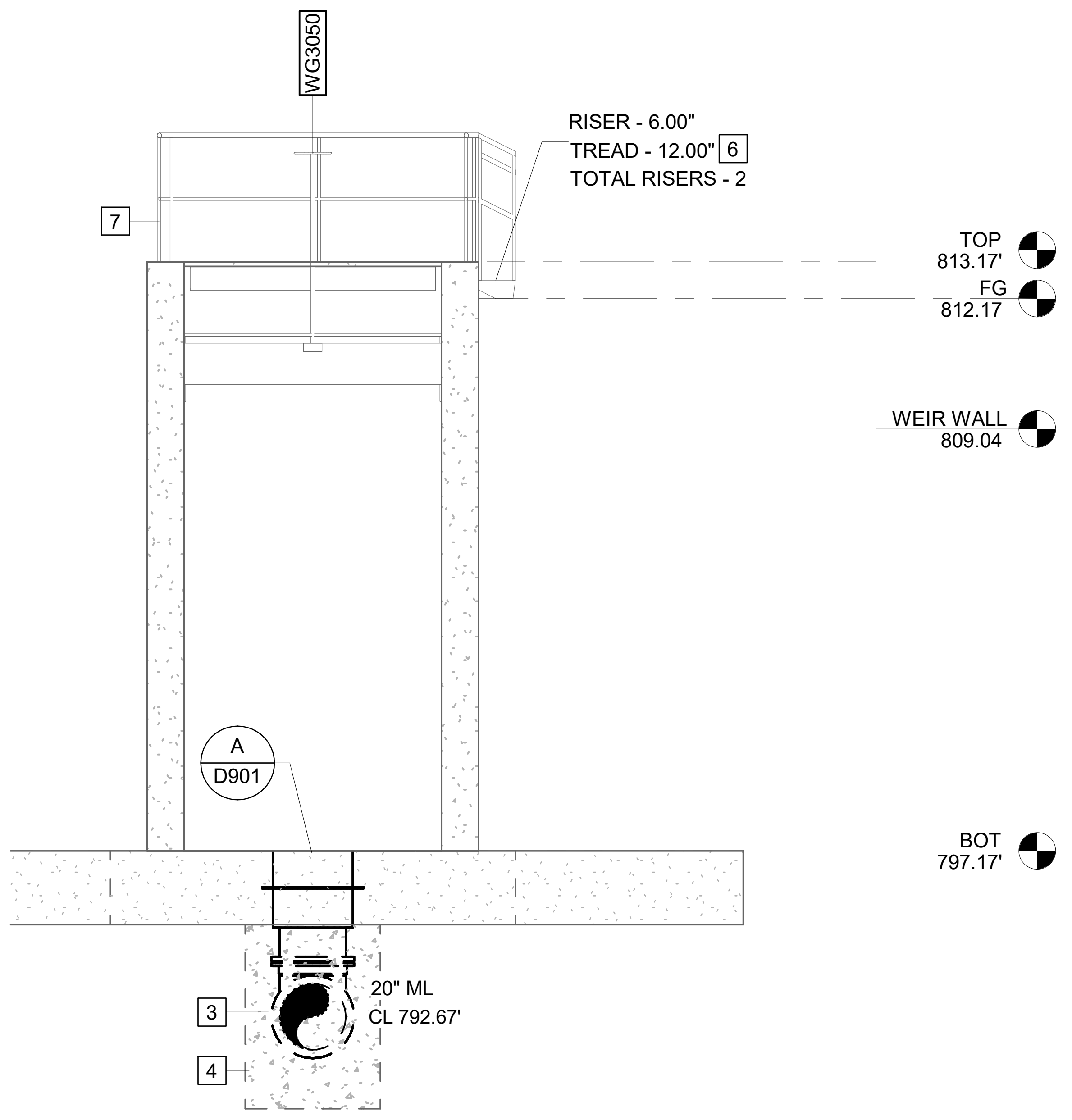
KEY NOTES: #

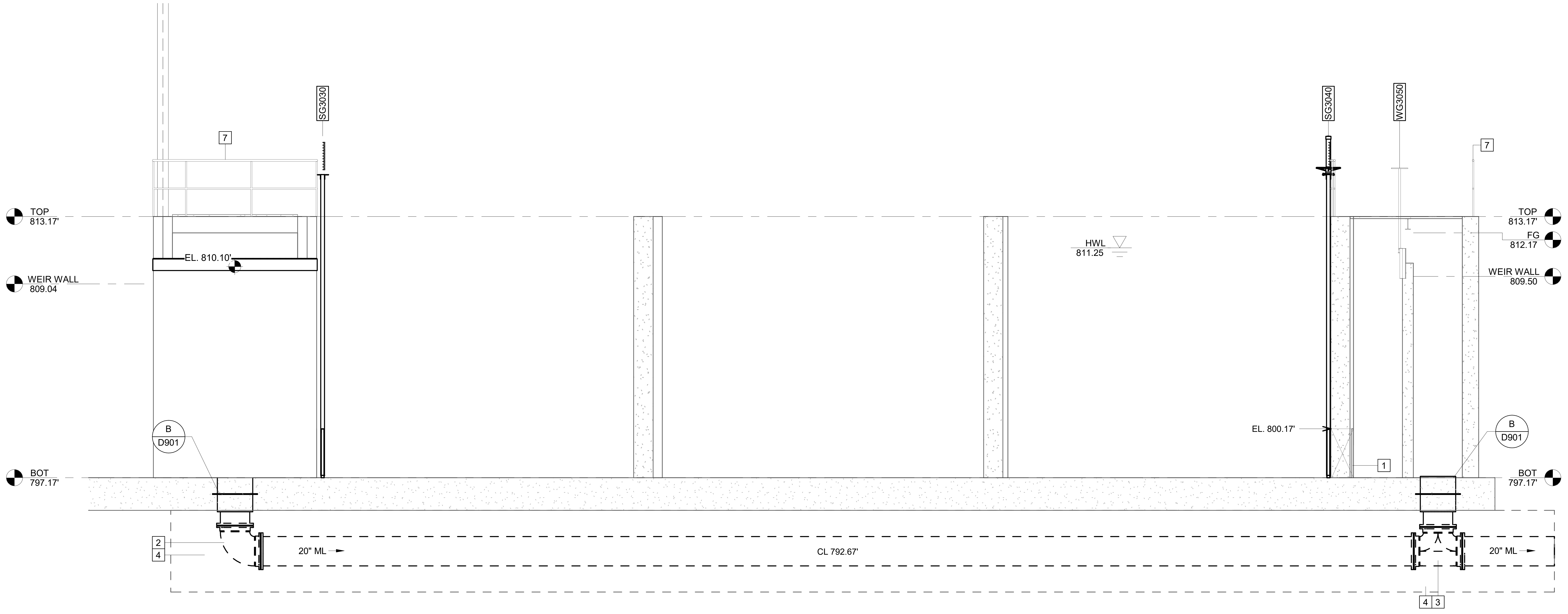
1. 36" SQ. TRANSFER PORT
2. 20" MJ 90° BEND
3. 20" MJ TEE
4. CONCRETE ENCASEMENT
5. GRATING
6. PRECAST STAIRS W/ ALUMINUM HANDRAILS
7. 3'-6" ALUMINUM HANDRAILS W/ TOE PLATES



5 **EFFLUENT PIPING**
D-302 SCALE: 1/4" = 1'-0"



A **SECTION**
D-305 SCALE: 1/4" = 1'-0"



B **SECTION**
D-301 SCALE: 1/4" = 1'-0"

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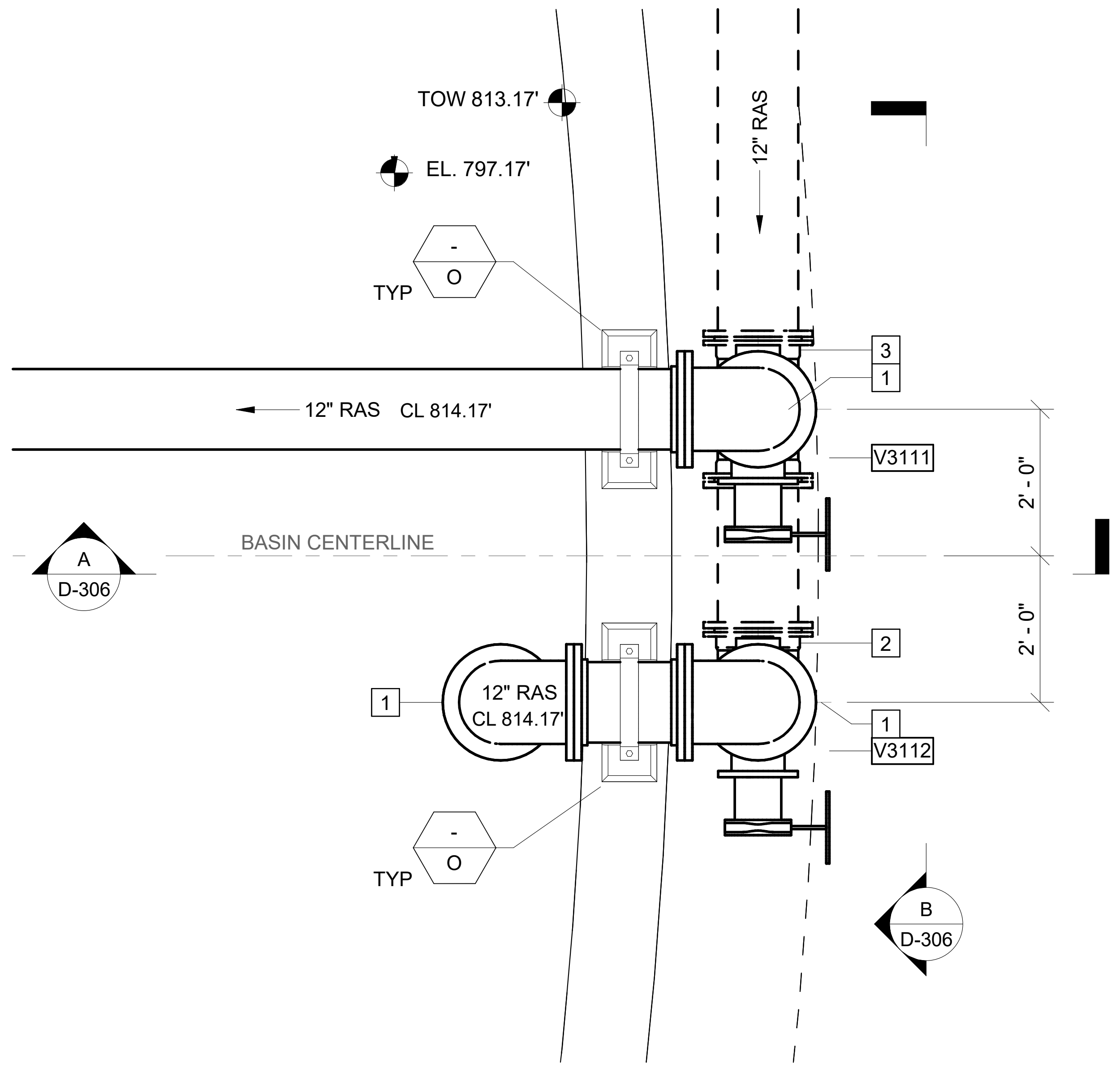
03.19.2025
GRAHAM S. SIZEMORE

ORBAL AERATION -
EFFLUENT PIPING
PLAN AND SECTIONS

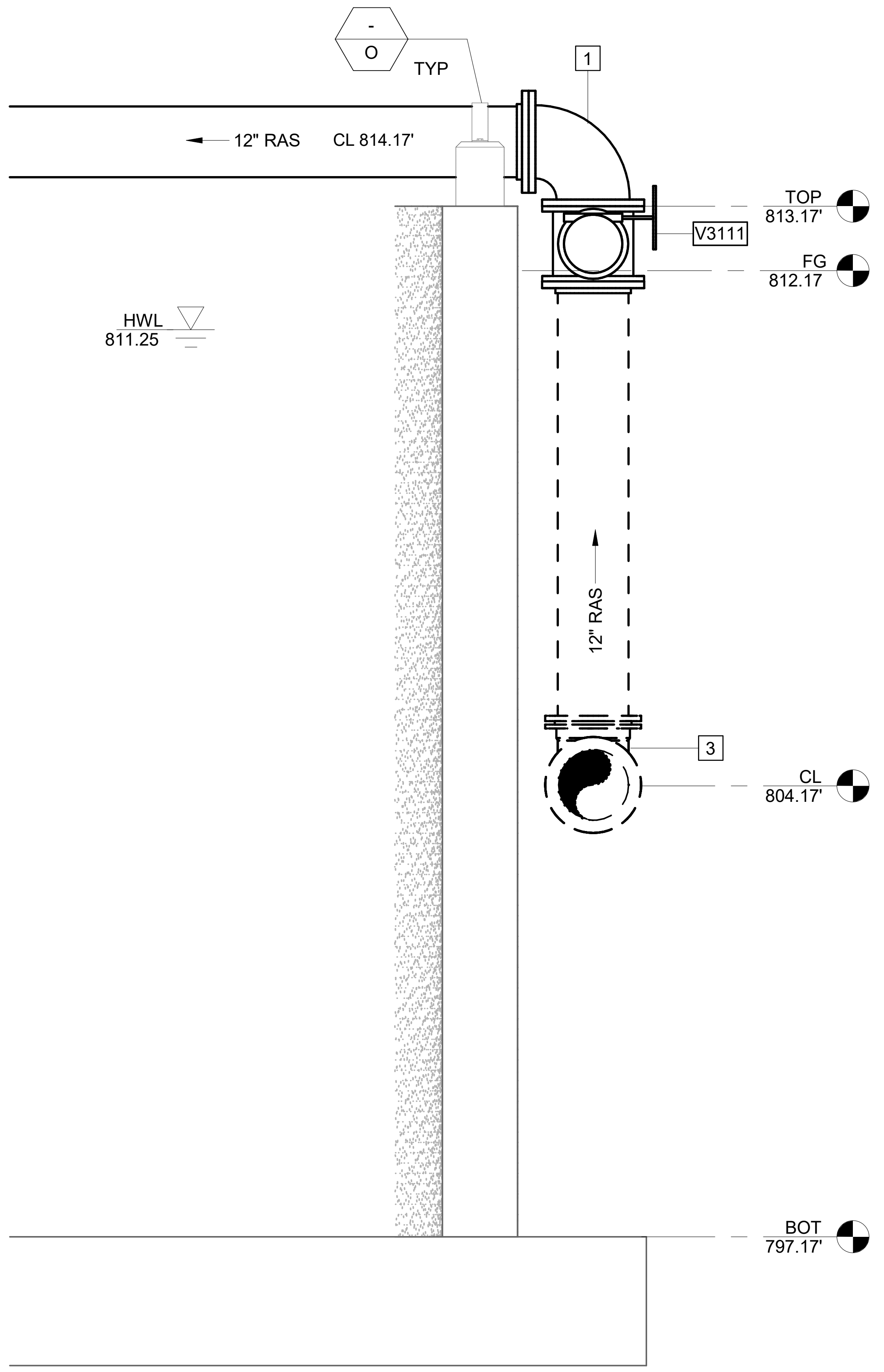
D-305

KEY NOTES: #

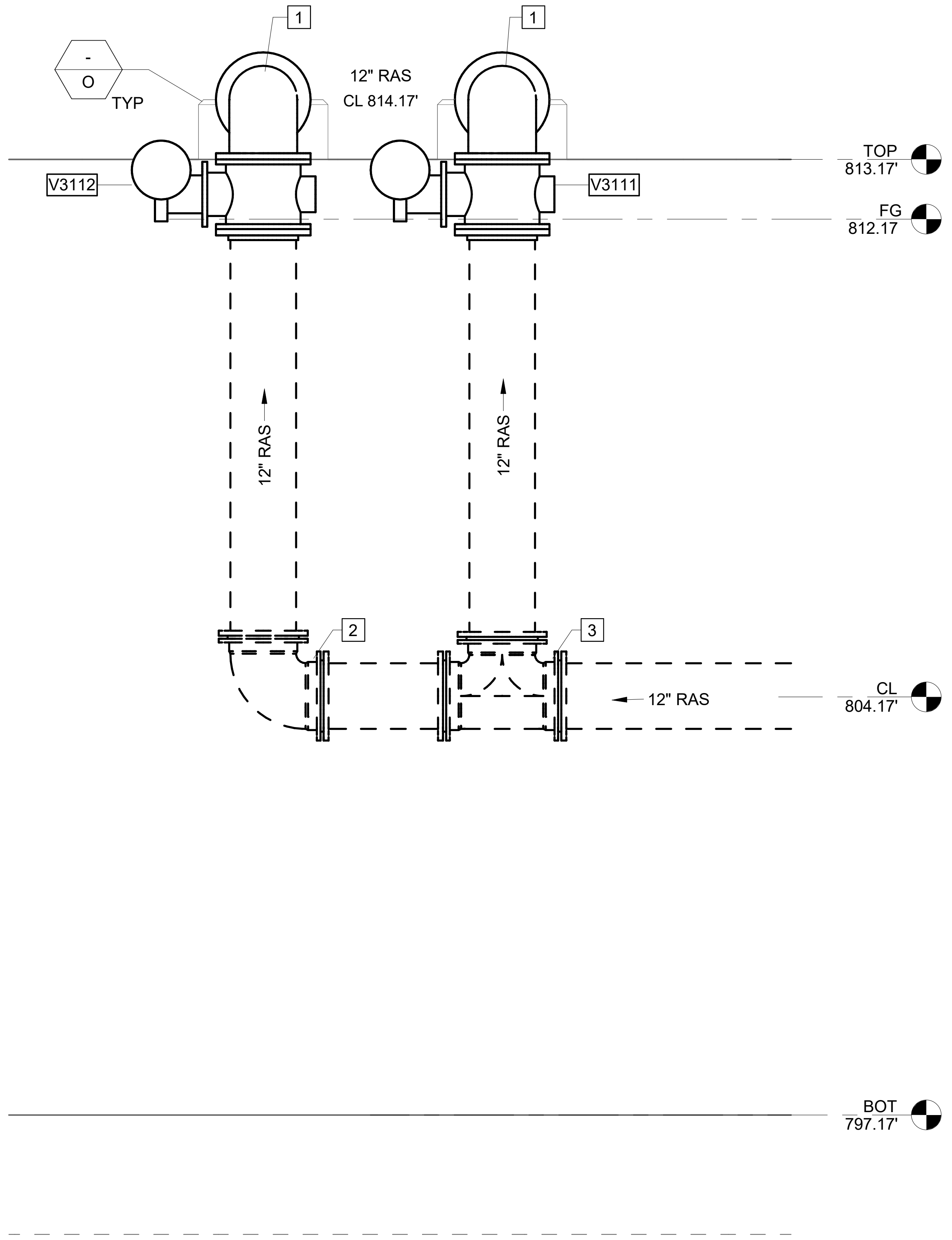
1. 12" 90° FL BEND
2. 12" 90° MJ BEND
3. 12" MJ TEE



6 **PLAN**
D-302 SCALE: 1/2" = 1'-0"



A **SECTION**
D-306 SCALE: 1/2" = 1'-0"



B **SECTION**
D-306 SCALE: 1/2" = 1'-0"

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Designer:	GS
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ORBAL AERATION -
RETURN SLUDGE PLAN
AND SECTIONS

D-306

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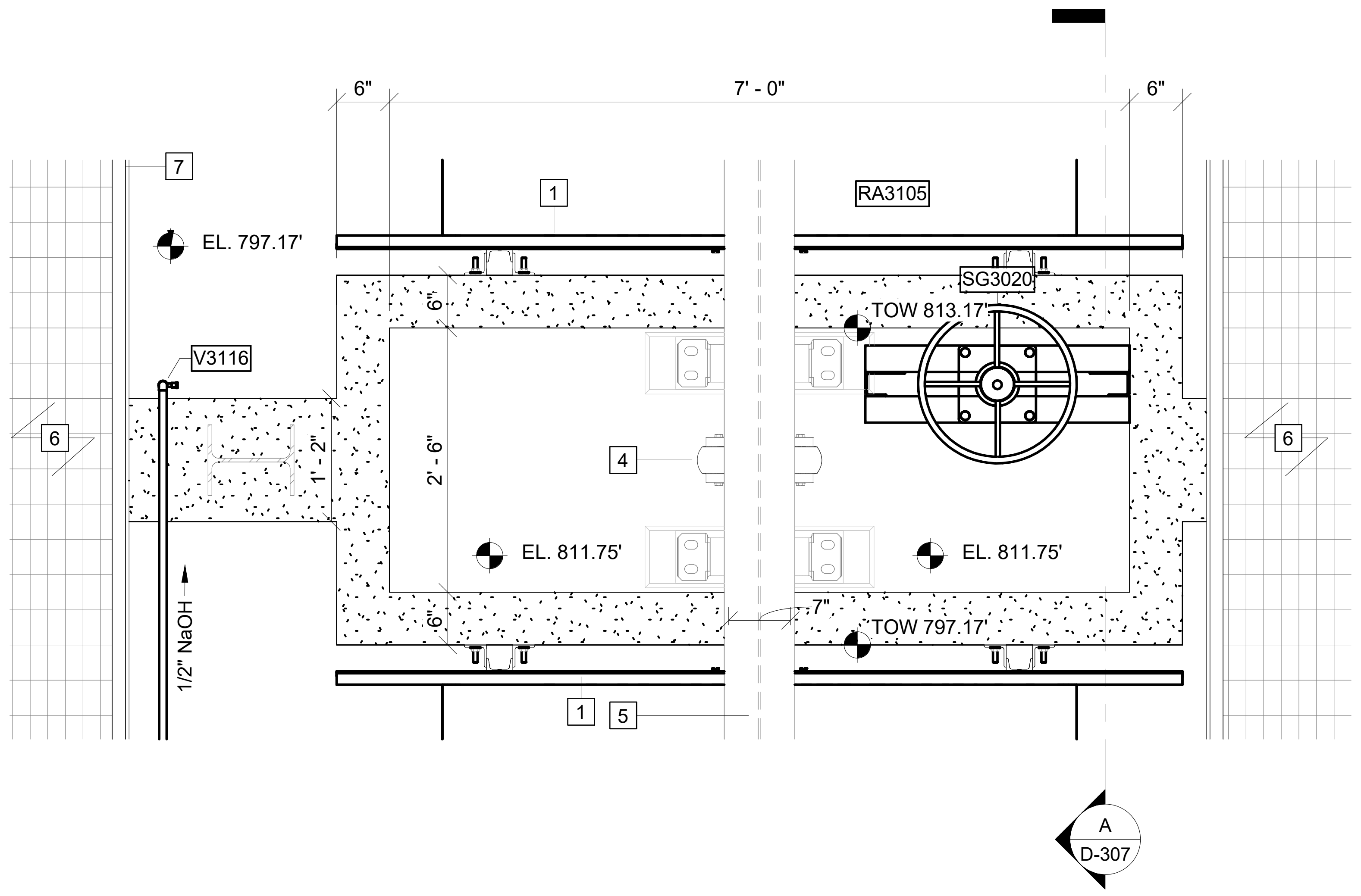
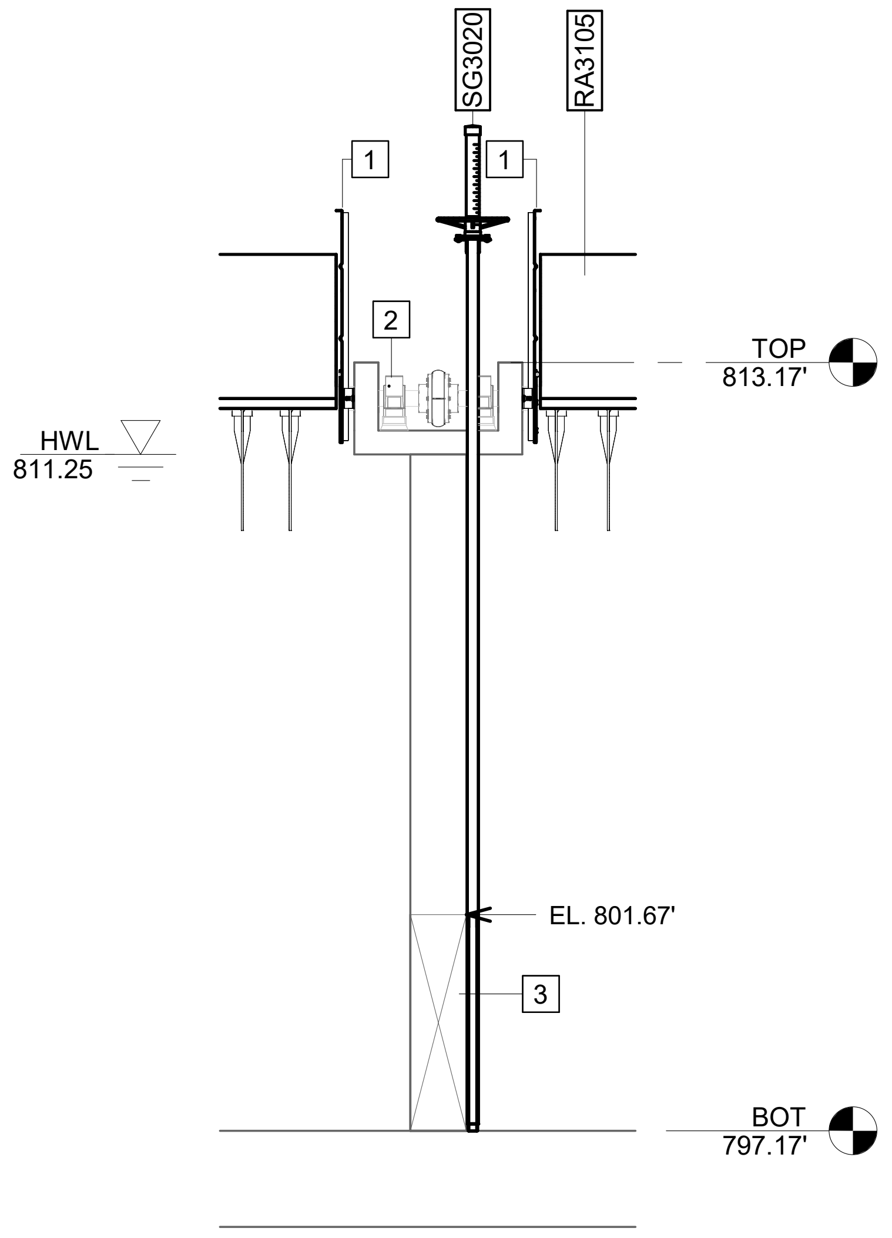


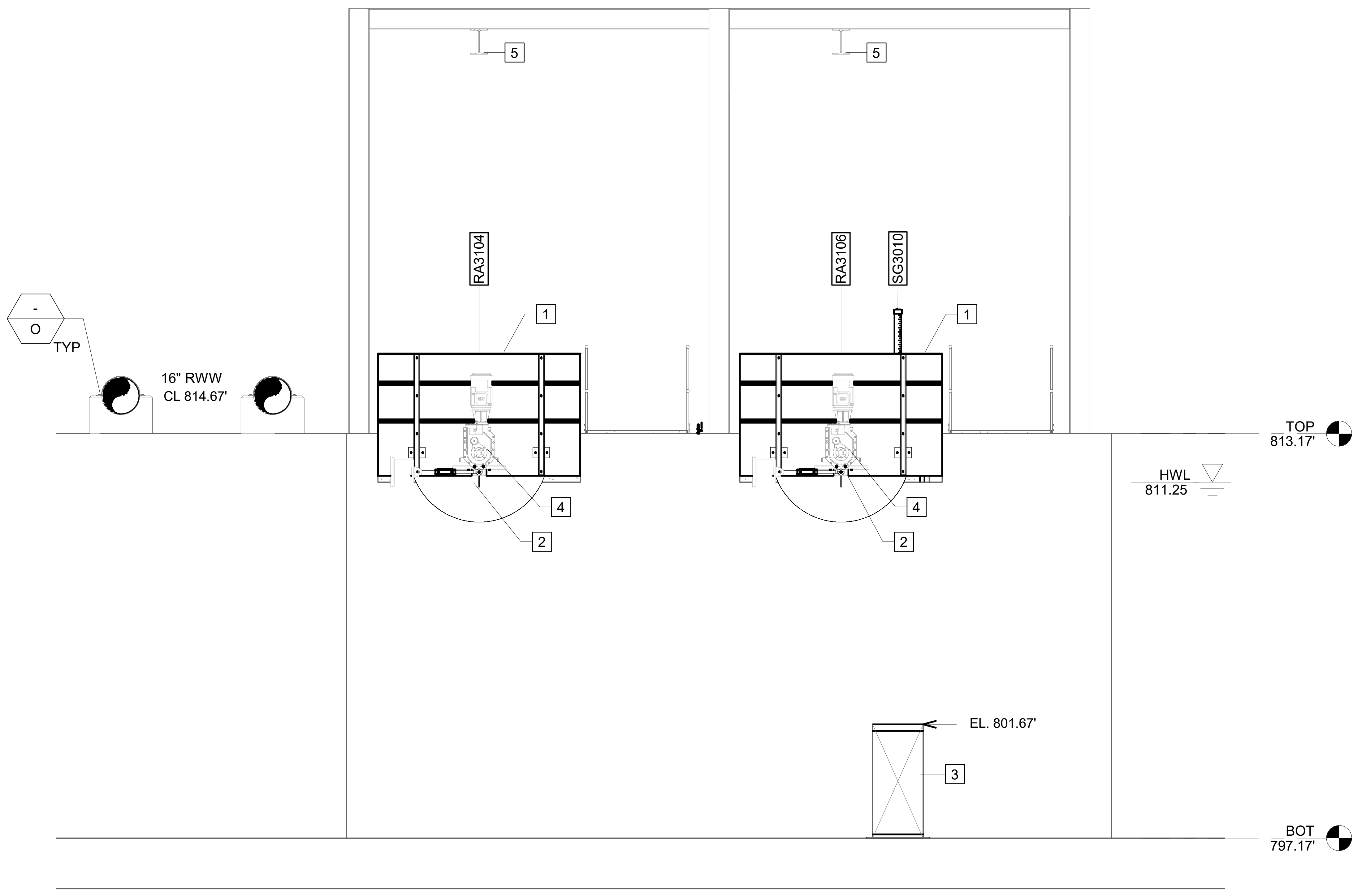
7 DRIVE SUPPORT

D-302 SCALE: 3/4" = 1'-0"



A SECTION

D-307 SCALE: 1/4" = 1'-0"



B SECTION

D-301 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. SPLASH SHIELD
2. DRIVE ASSEMBLY
3. 54" X 24" TRANSFER PORT
4. 30HP DRIVE MOTOR
5. TROLLEY BEAM. SEE STRUCTURAL
6. GRATING WALKWAY
7. 3'-6" ALUMINUM HANDRAILS W/ TOE PLATES

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ORBAL AERATION - DRIVE PLAN AND SECTIONS

D-307

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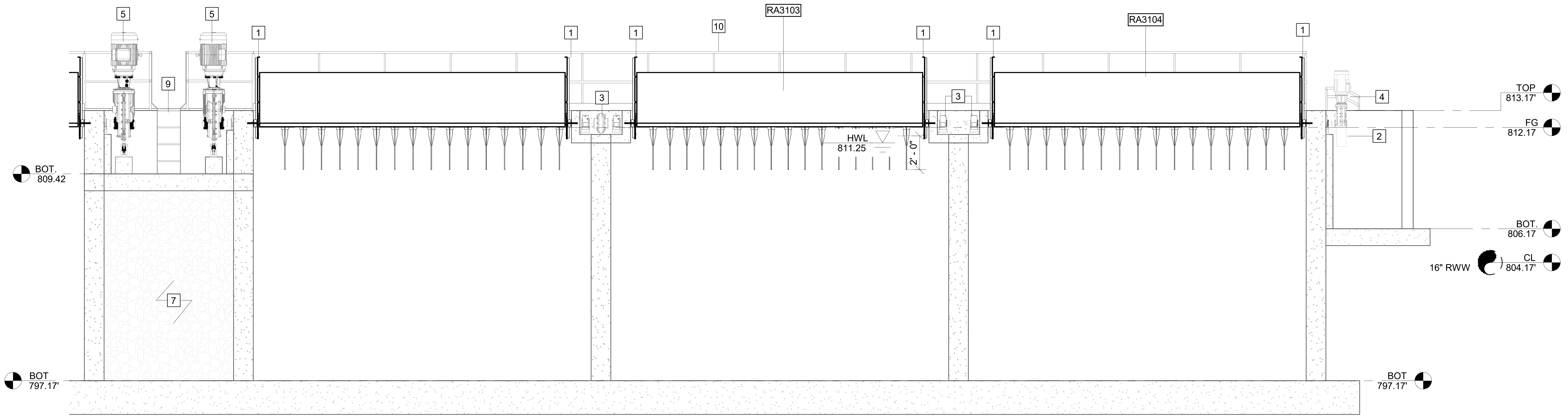
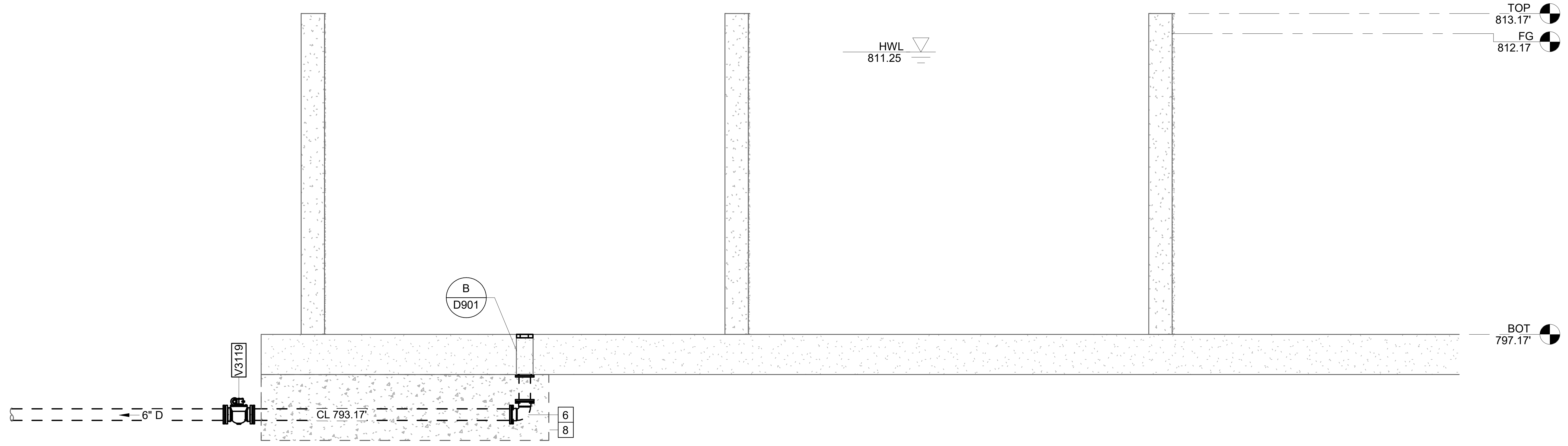


A SECTION
D-301 SCALE: 1/4" = 1'-0"



B SECTION
D-301 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. SPLASH SHIELD
2. TORQUE ARM
3. DRIVE ASSEMBLY
4. 30HP DRIVE MOTOR
5. 60HP DRIVE MOTOR
6. 6" 90° MJ BEND
7. FILL WITH #57 STONE
8. CONCRETE ENCASEMENT
9. 4' LADDER
10. 3' 6" ALUMINUM HANDRAILS WITH TOE PLATES

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ORBAL AERATION - SECTIONS

D-308

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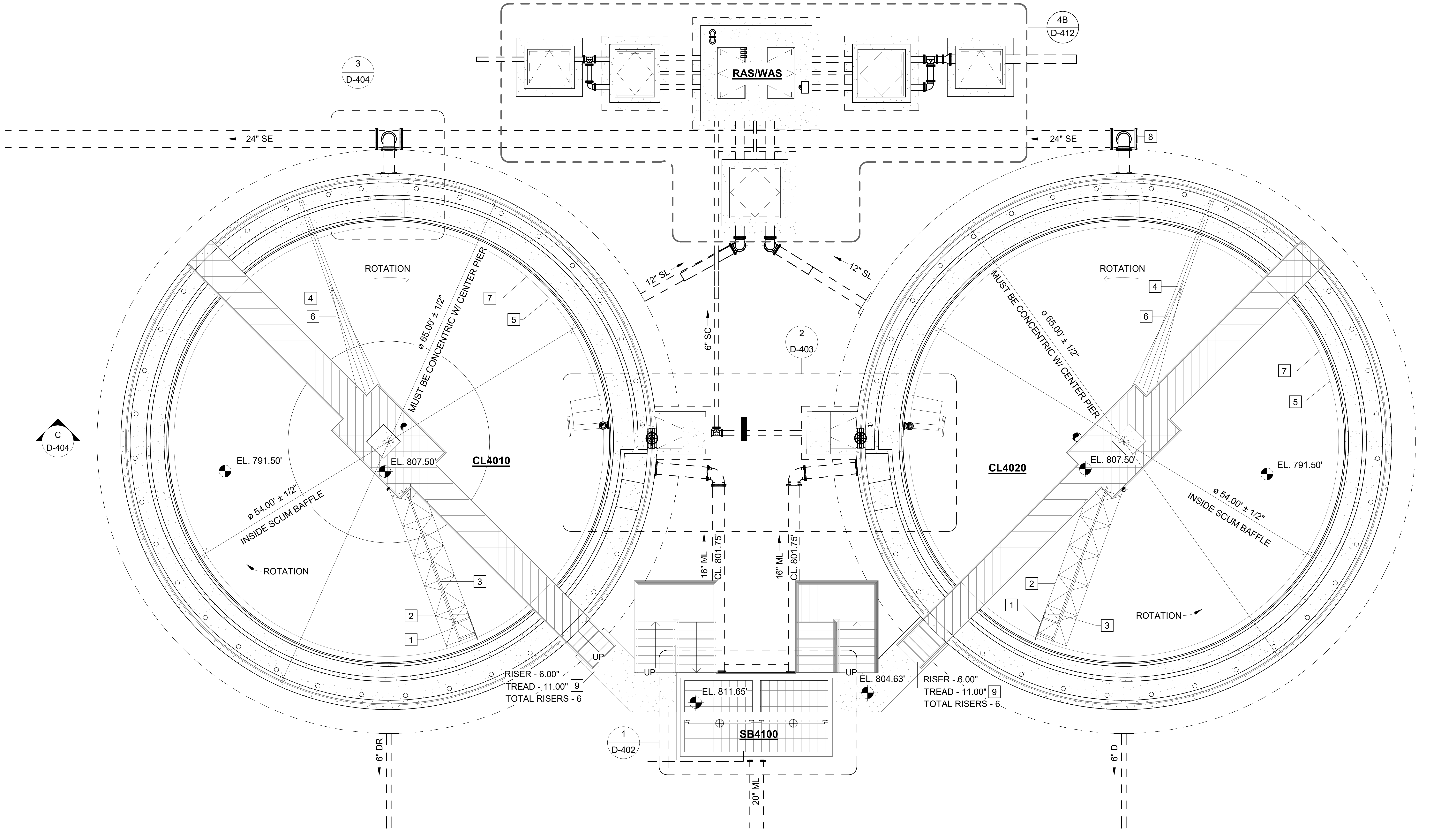

4A D-401 **UPPER PLAN**

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

KEY NOTES: #

1. RACEWAY SKIMMER ASSEMBLY
2. TRUSS
3. SCUM BLADE
4. UNITUBE HEADER
5. SCUM BAFFLE
6. STEEL TIE BARS W/ CLEVIS ASSEMBLY
7. V-NOTCH WEIR
8. 24" MJ PLUG
9. METAL STAIRS W/ ALUMINUM HANDRAILS

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Designer:	GS
Drawn By:	HKD/CE

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CLARIFIERS - PLAN

D-401

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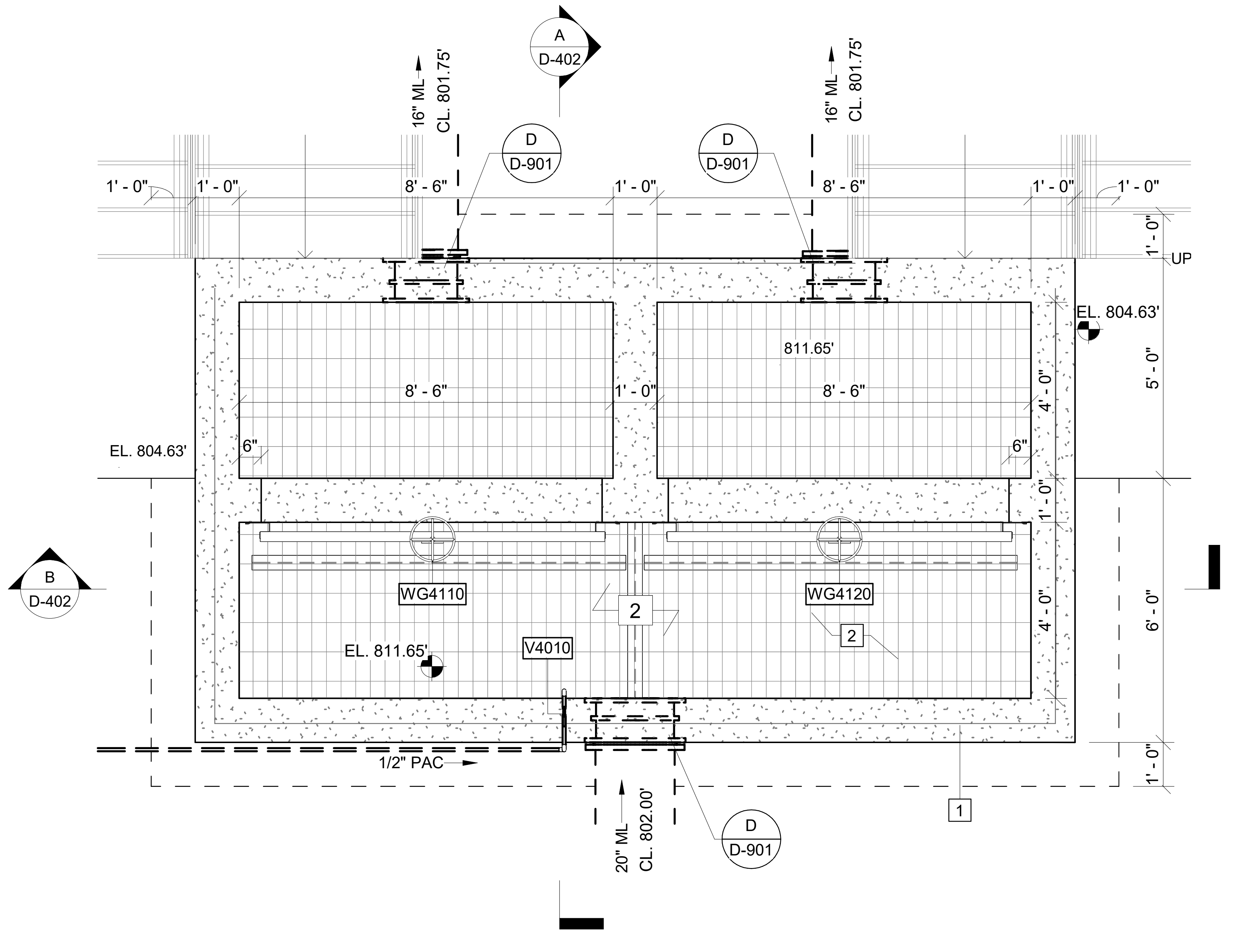
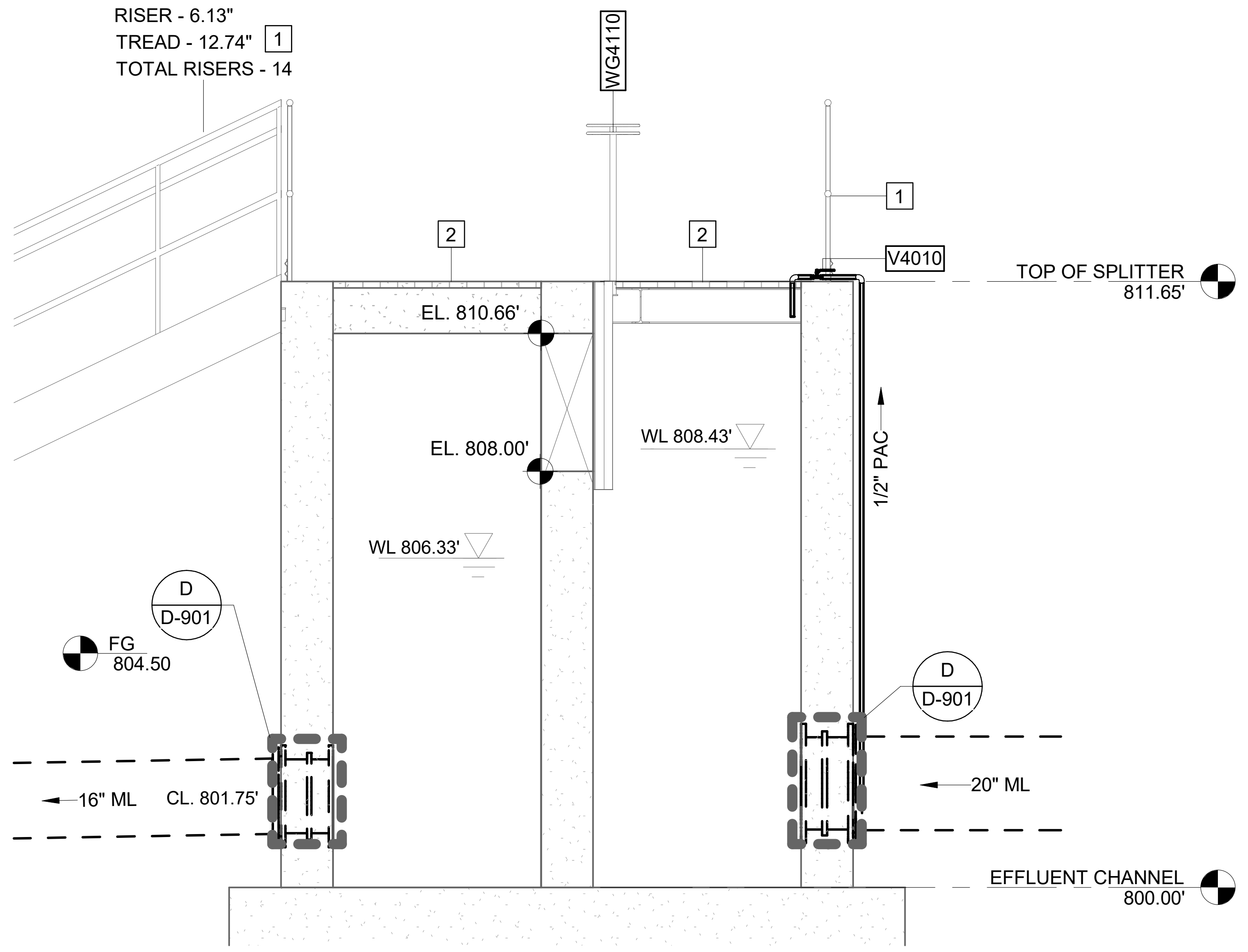
KEY NOTES: #

1. ALUMINUM HANDRAIL
2. GRATED FLOOR



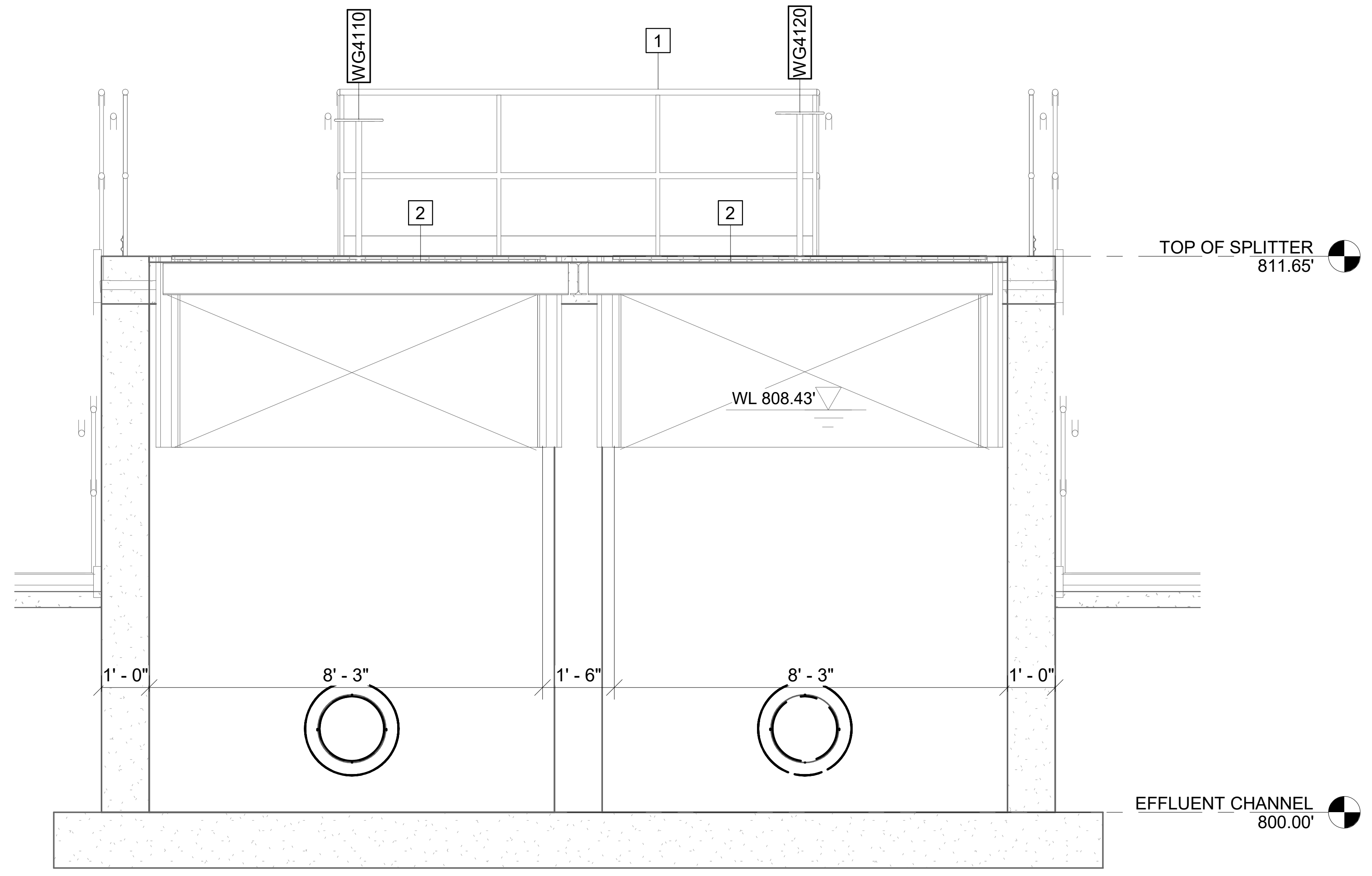
1 D-401 **SPLITTER BOX PLAN**

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



A D-402 **SECTION**

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



B D-402 **SECTION**

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

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Designer:	GS
Drawn By:	HKD/CE

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GRAHAM S. SIZEMORE

CLARIFIERS - SPLITTER
BOX DETAIL

D-402

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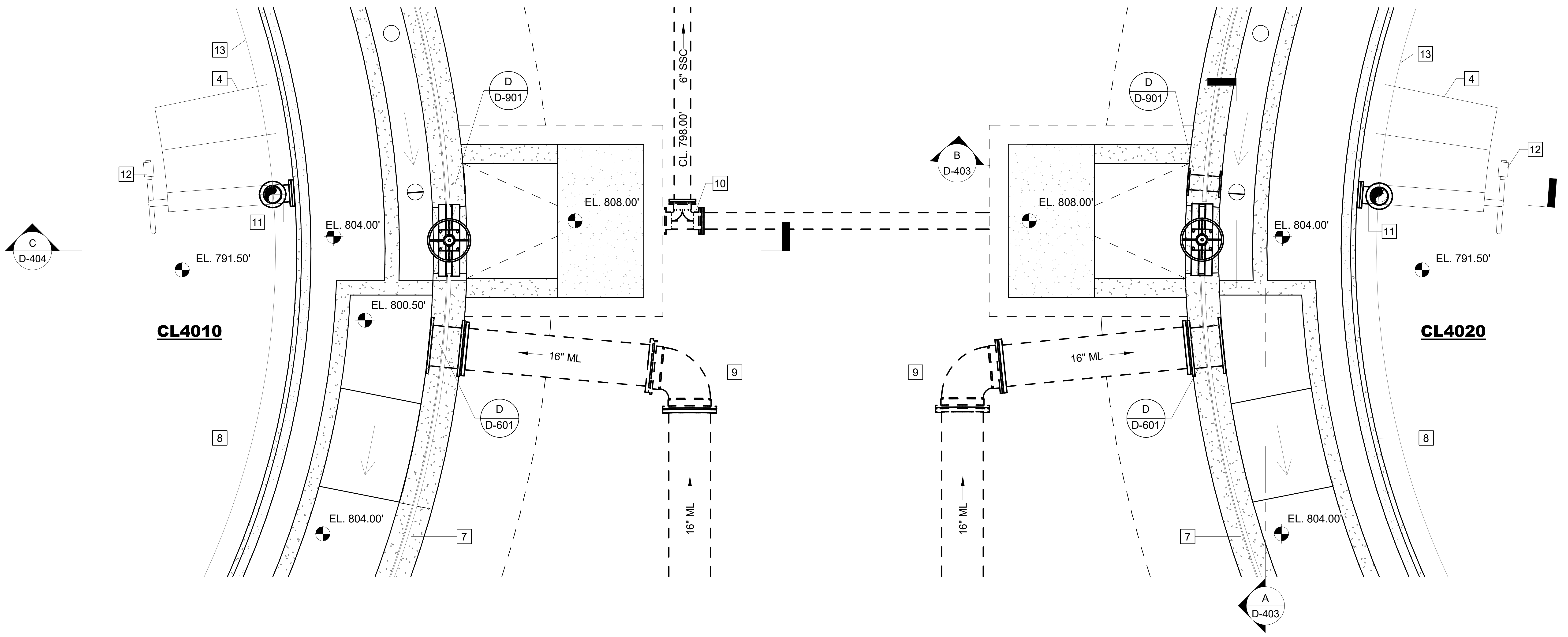


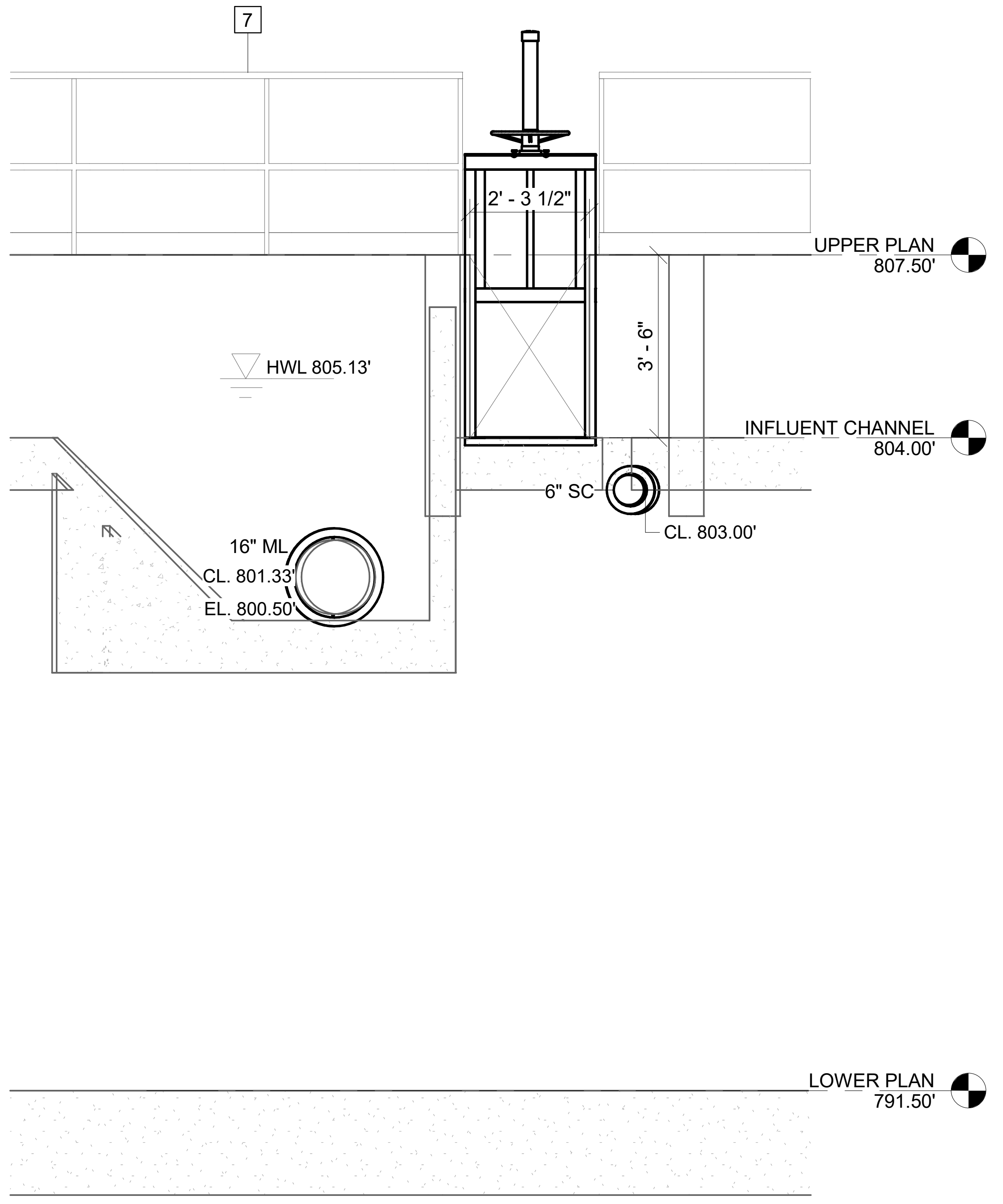
2 INFLUENT DETAIL

D-401

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

KEY NOTES: #

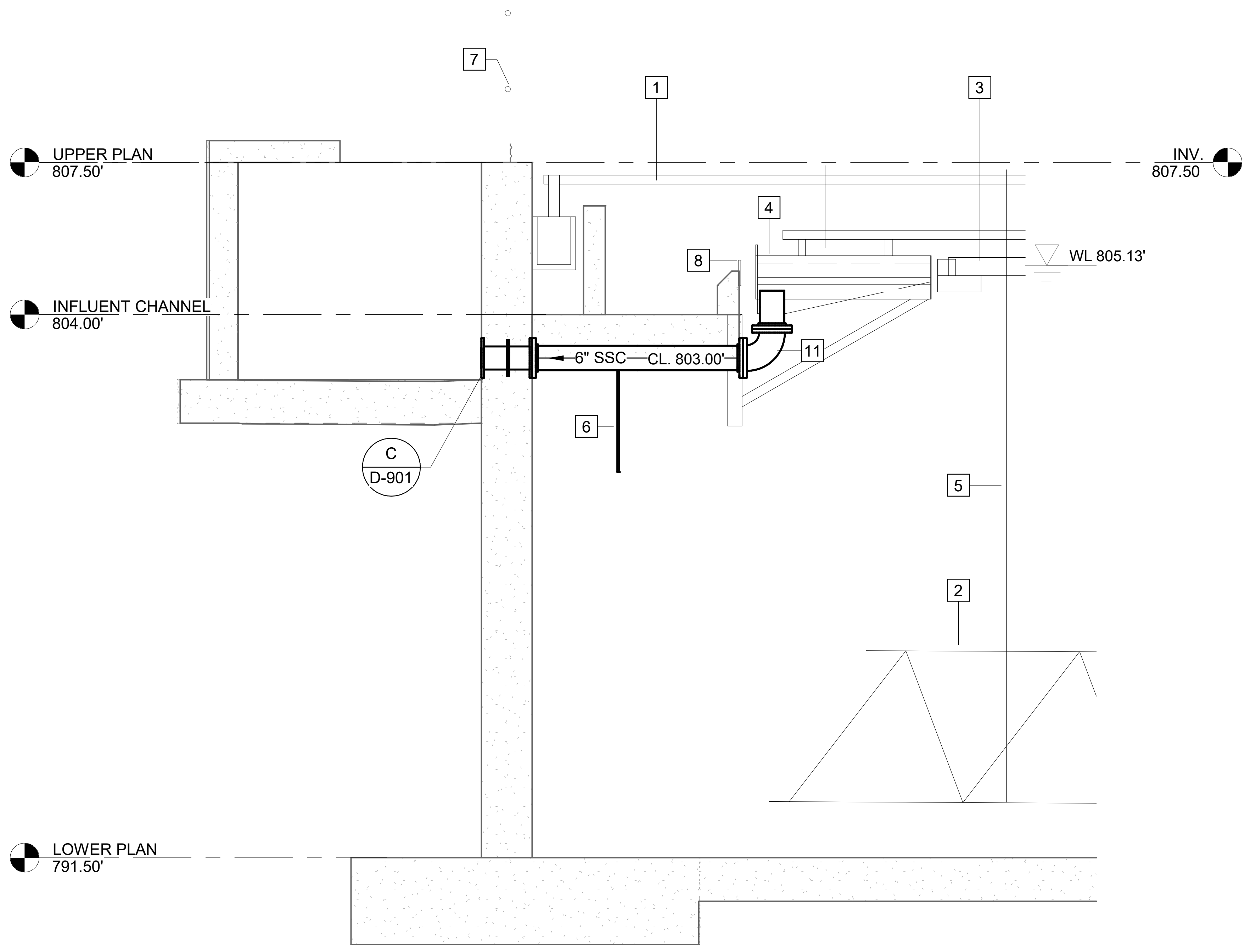
1. RACEWAY SKIMMER ASSEMBLY
2. TRUSS
3. SCUM BLADE
4. SCUM TROUGH
5. A-FRAME SUPPORT
6. SKIRT BAFFLE
7. ALUMINUM HANDRAIL
8. V-NOTCH WEIR
9. 16" MJ 90° BEND
10. 6" MJ TEE
11. 4" FL 90° BEND
12. FLUSHING DEVICE
13. SCUM BAFFLE



A SECTION

D-403

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



B SECTION

D-403

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

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Engineer:	GS
Designer:	GS
Drawn By:	HKD/CE

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CLARIFIERS - INFLUENT DETAIL

D-403

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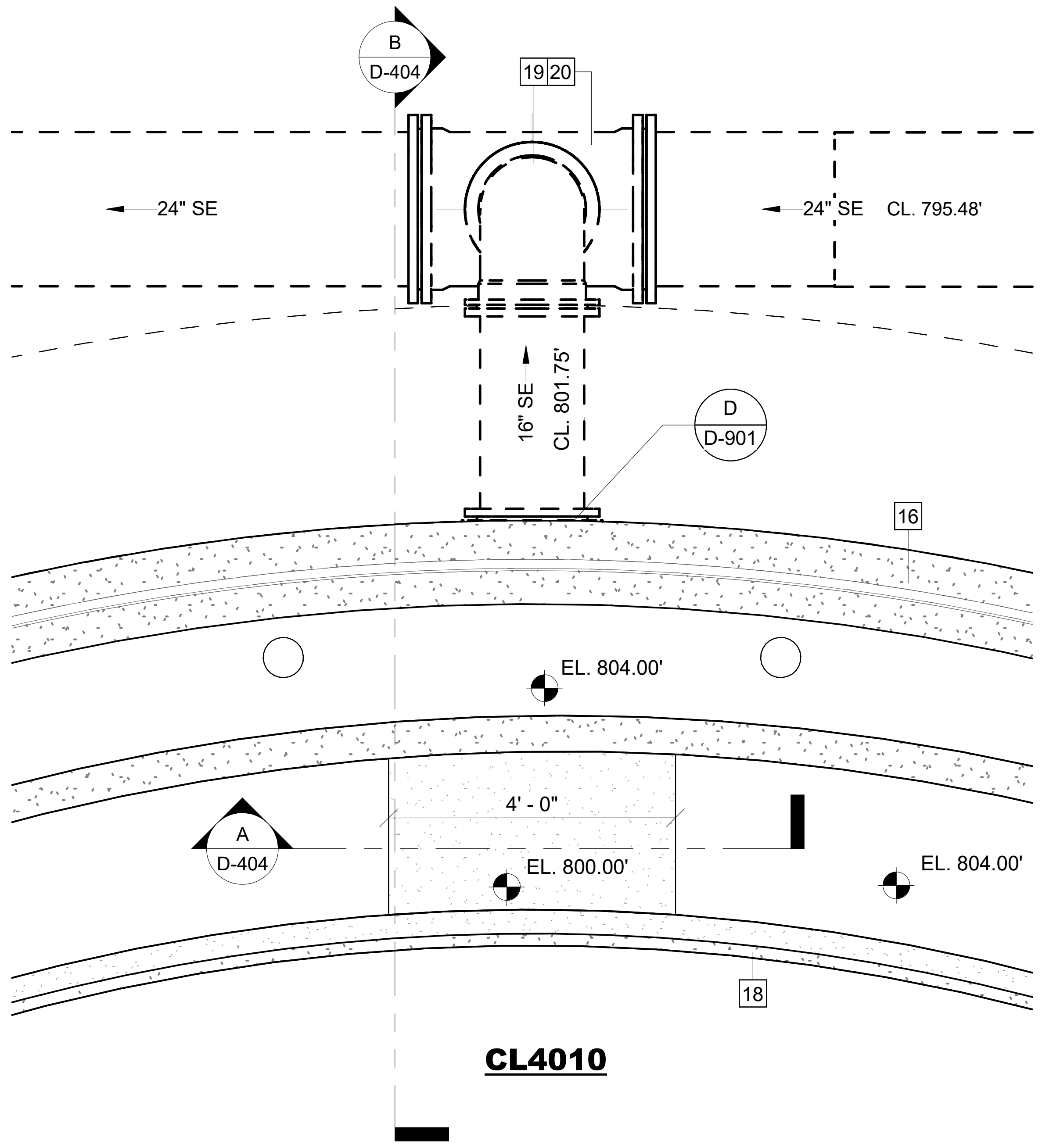
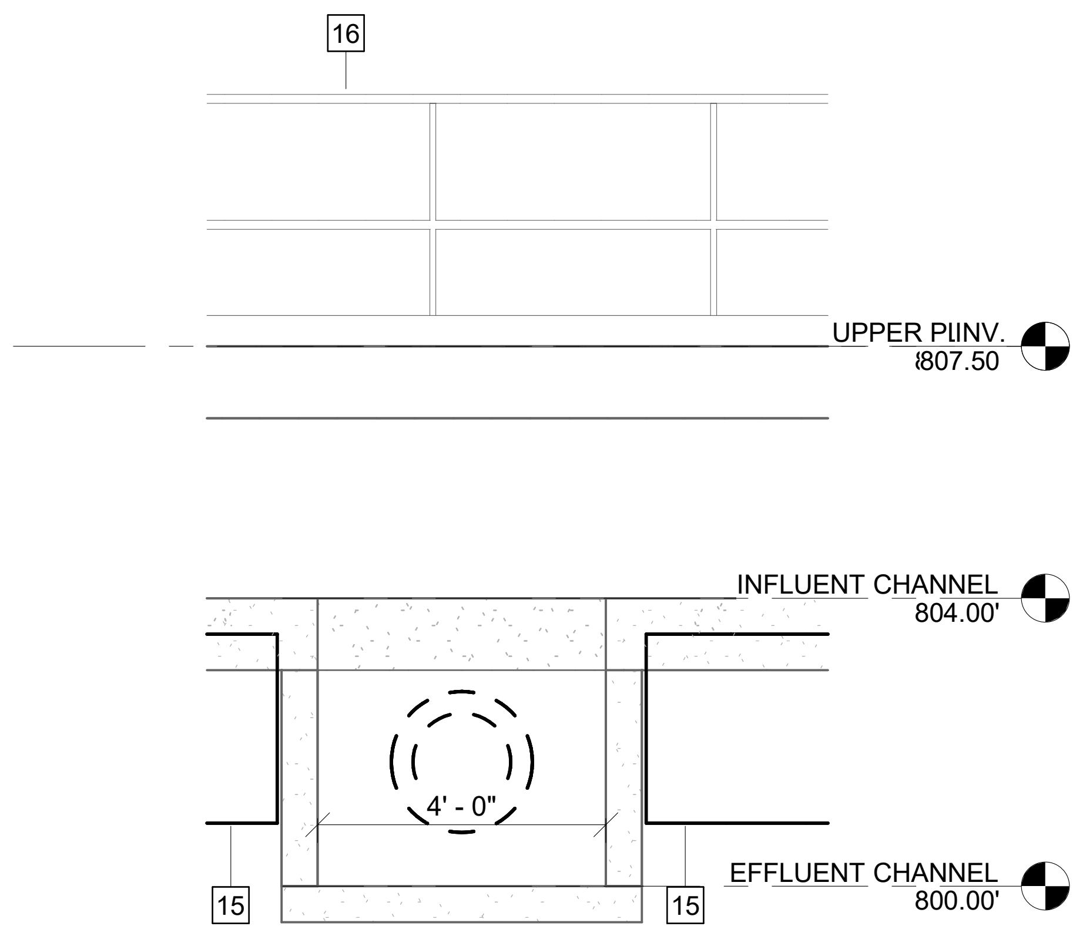


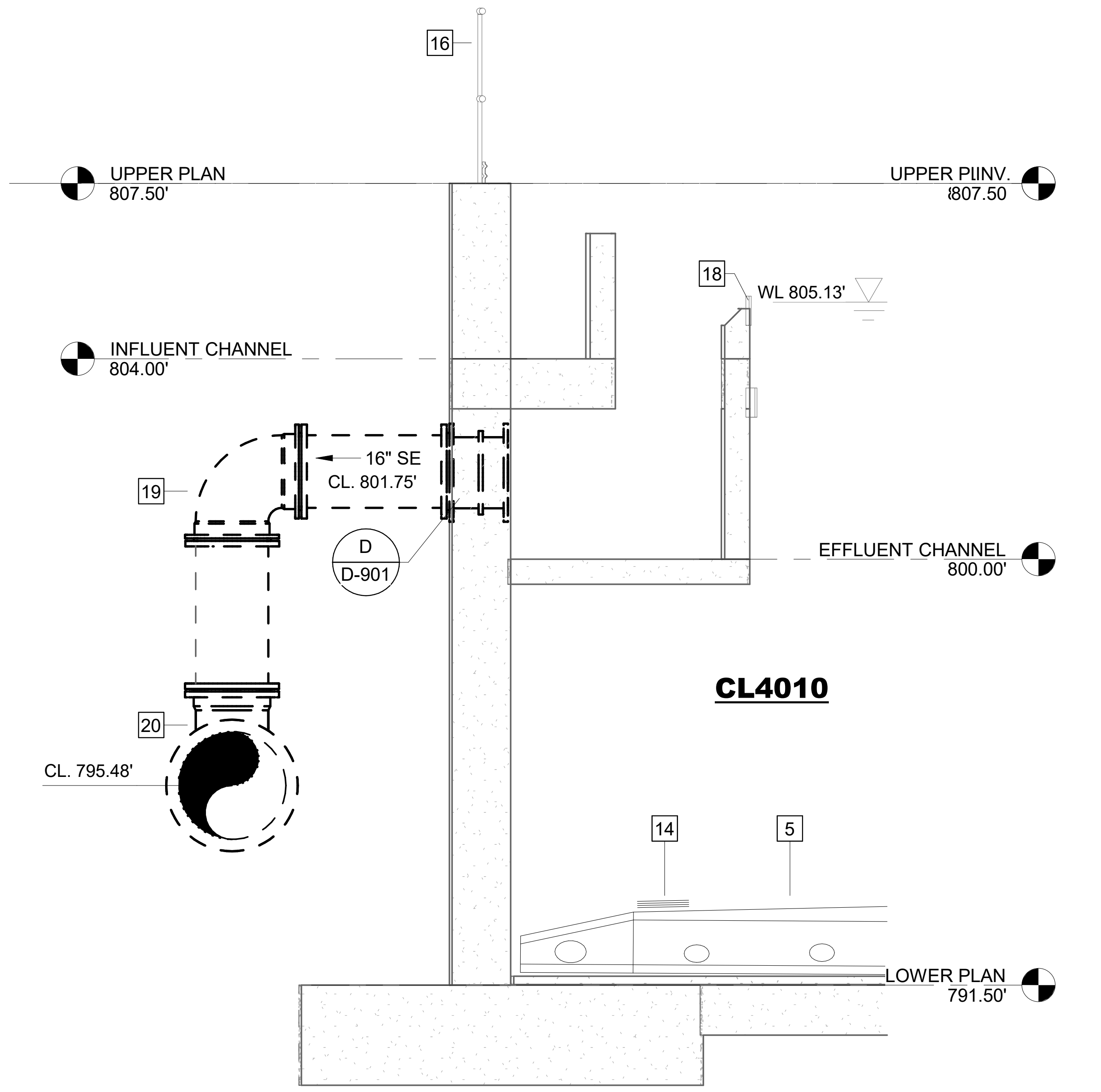
3 D-401 **EFFLUENT DETAIL**

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



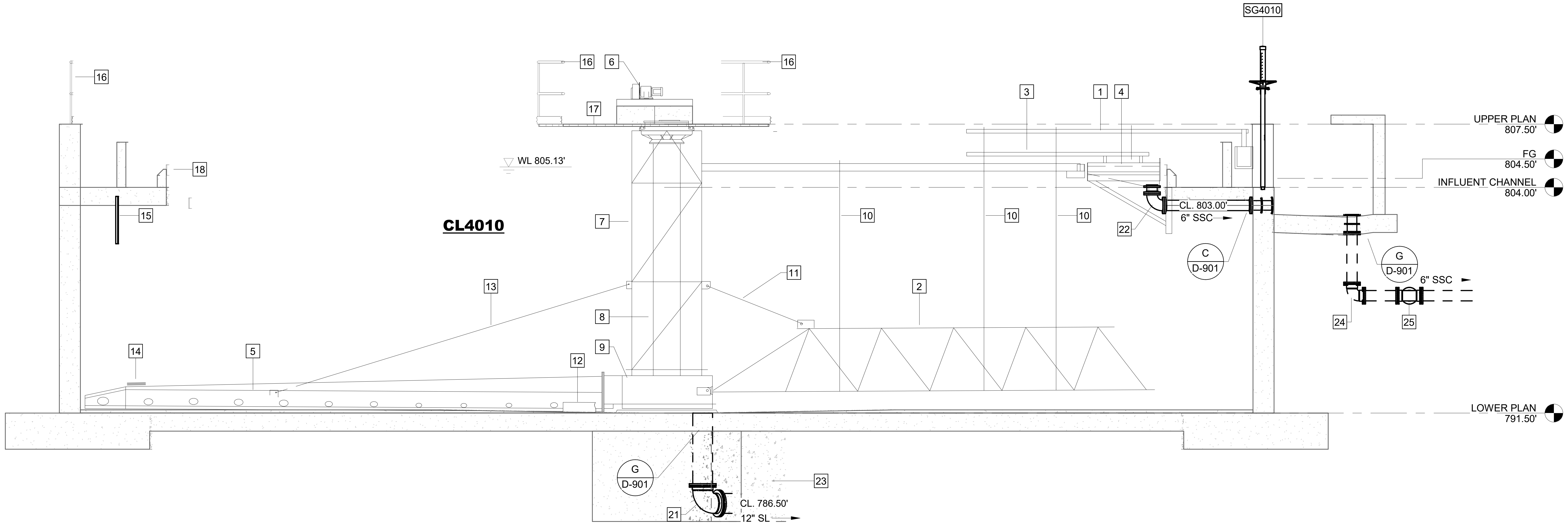
A D-404 **SECTION**

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



B D-404 **SECTION**

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



C D-401 **SECTION**

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

KEY NOTES: #

1. RACEWAY SKIMMER ASSEMBLY
2. TRUSS
3. SCUM BLADE
4. SCUM TROUGH
5. UNITUBE HEADER
6. DRIVE ASSEMBLY
7. CENTER CAGE
8. 18" DIA CENTER PIER
9. SUCTION MANIFOLD
10. A-FRAME SUPPORT
11. TIE CHORD A-FRAME
12. DEFLECTOR BLADE W/ NEOPRENE WIPER
13. STEEL TIE BARS W/ CLEVIS ASSEMBLY
14. COUNTERWEIGHTS
15. SKIRT BAFFLE
16. ALUMINUM HANDRAIL
17. GRATED FLOOR
18. V-NOTCH WEIR @ EL. 805.00' BOT. OF V-NOTCH
19. 16" MJ 90° BEND
20. 24" X 24" X 16" MJ TEE
21. 12" MJ 90° BEND
22. 4" FL 90° BEND
23. CONCRETE ENCASEMENT
24. 6" MJ 90° BEND
25. 6" MJ TEE

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1"
.5"
0"
1"

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CLARIFIERS - EFFLUENT DETAIL

D-404

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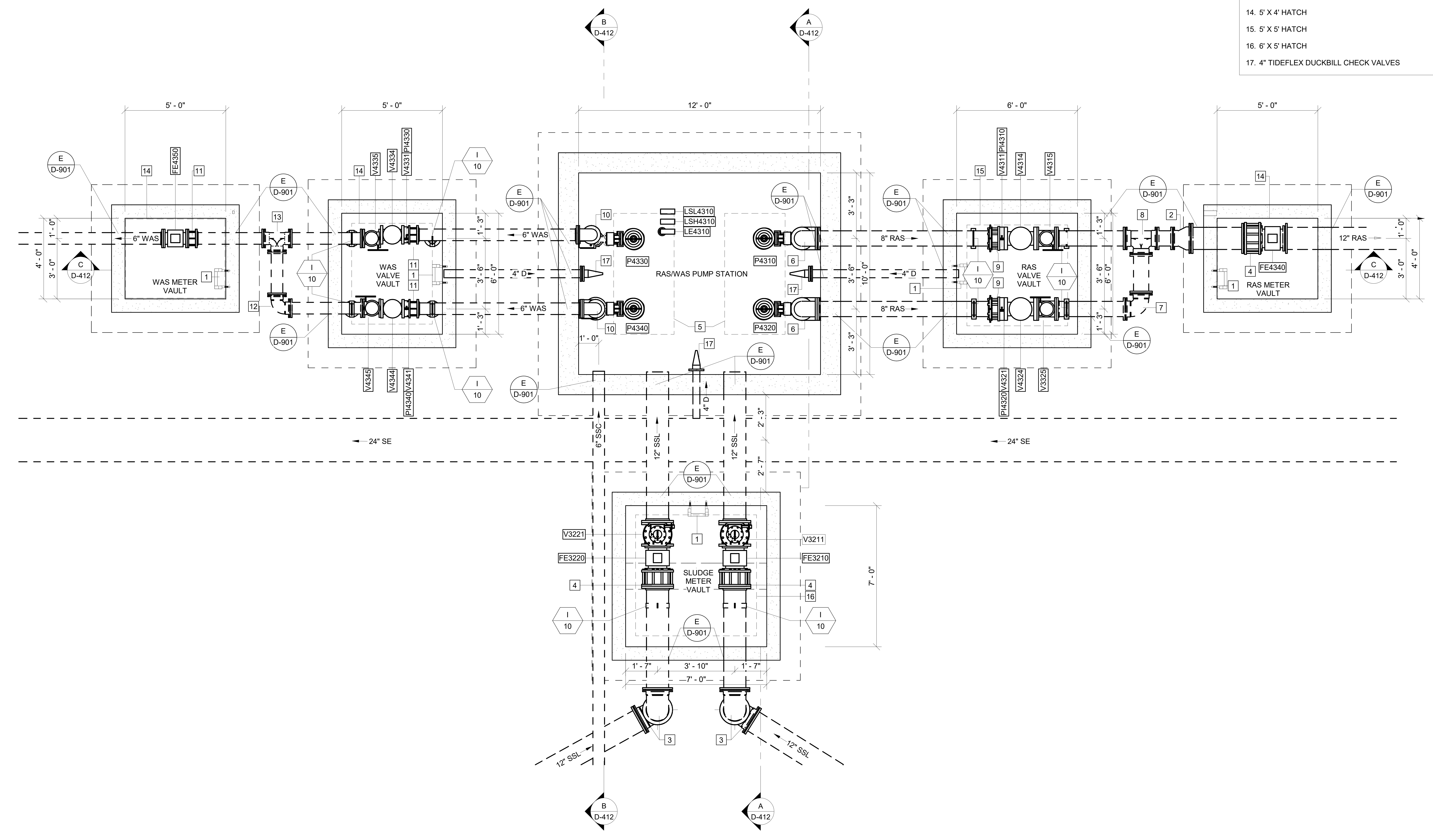
KEY NOTES: #

1. MANHOLE STEPS
2. 12" X 8" MJ REDUCER (RESTRAINED)
3. 10" MJ 90° BEND (RESTRAINED)
4. 12" FL COUPLING ADAPTER (RESTRAINED)
5. 6' X 3' HATCH (TYP 2)
6. 8" FL 90° BEND (RESTRAINED)
7. 8" MJ 90° BEND (RESTRAINED)
8. 8" MJ TEE (RESTRAINED)
9. 8" FL COUPLING ADAPTER (RESTRAINED)
10. 6" FL 90° BEND (RESTRAINED)
11. 6" FL COUPLING ADAPTER (RESTRAINED)
12. 6" MJ 90° BEND (RESTRAINED)
13. 6" MJ TEE (RESTRAINED)
14. 5' X 4' HATCH
15. 5' X 5' HATCH
16. 6' X 5' HATCH
17. 4" TIDEFLEX DUCKBILL CHECK VALVES



4B
D-411

PLAN

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

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1" .5" 0" 1"

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RAS WAS PUMP
STATION - PLAN

D-411

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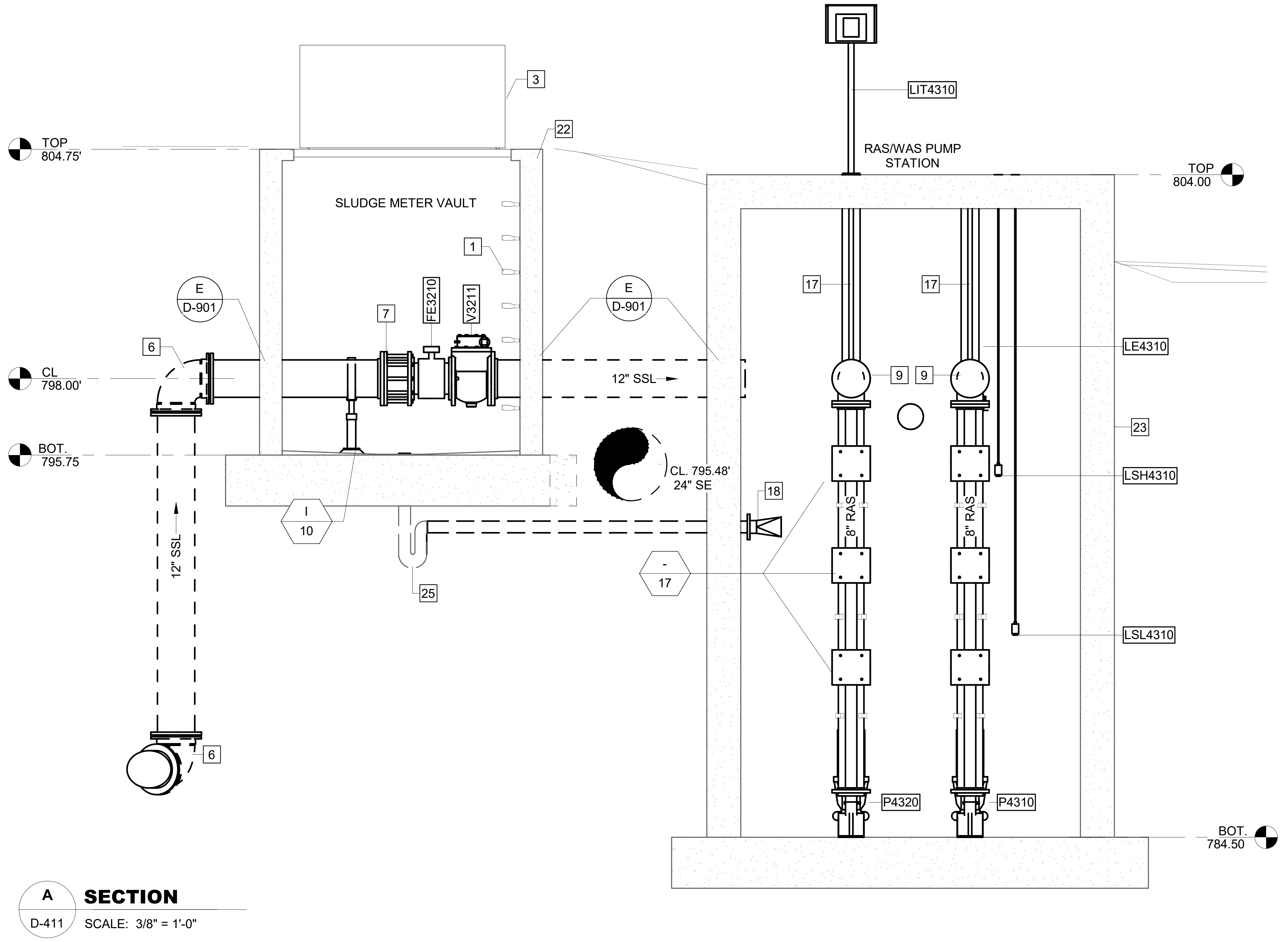
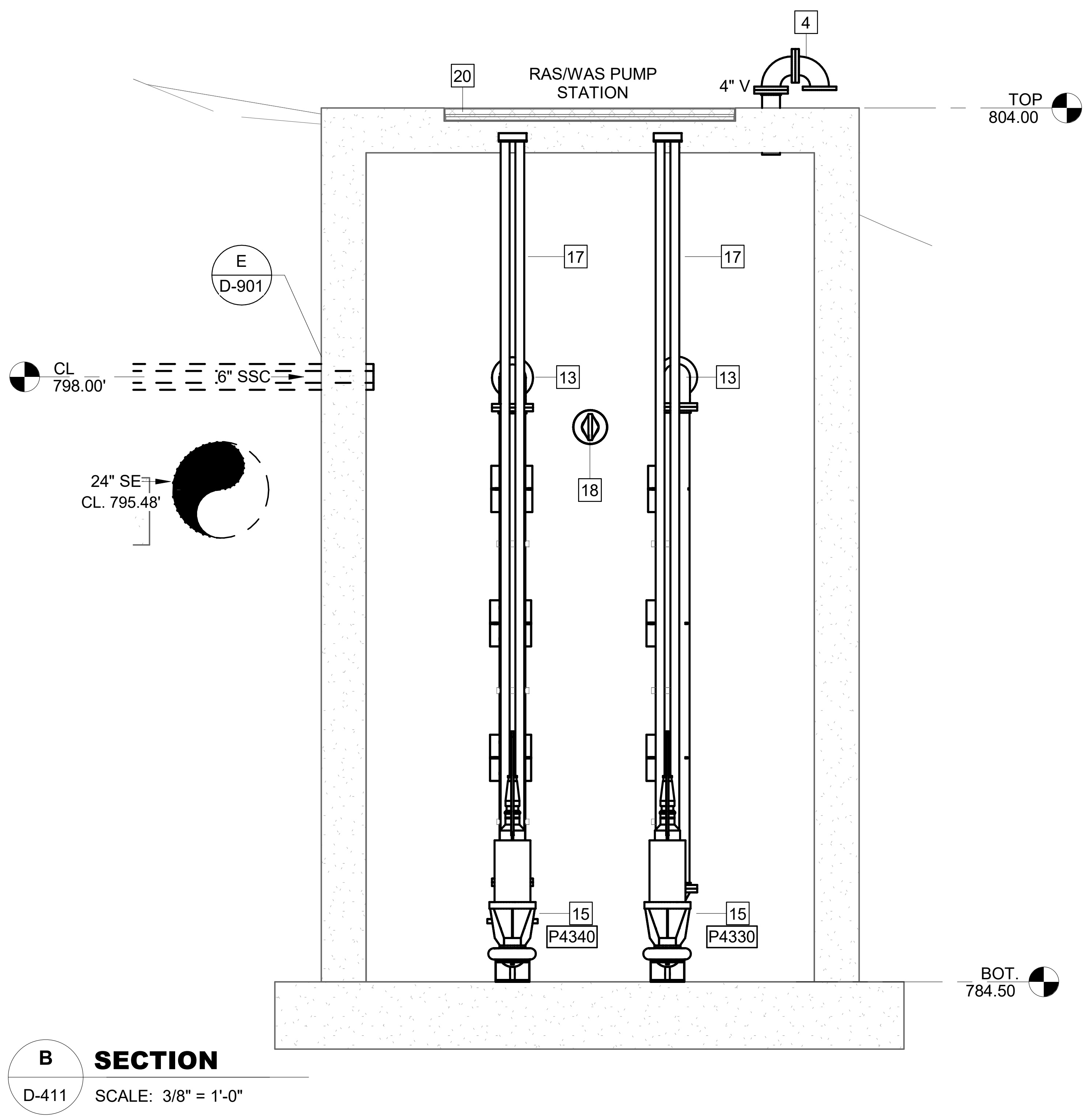


A SECTION

D-411

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



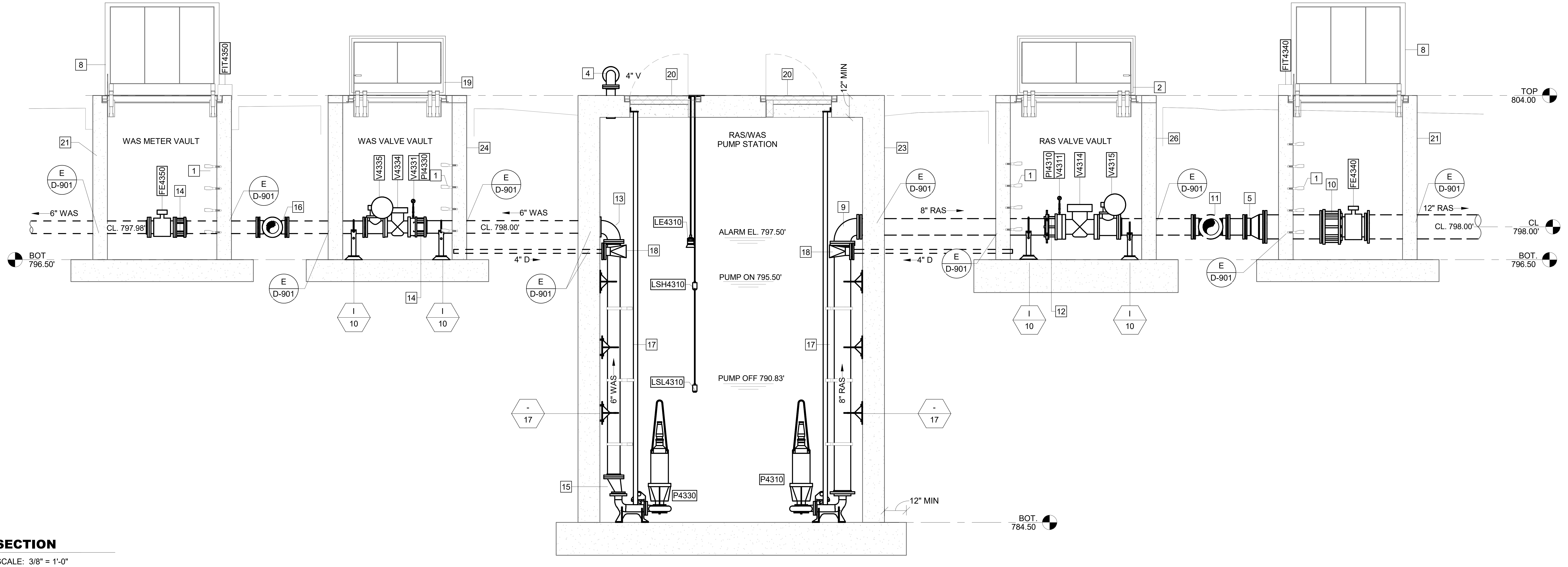
B SECTION

D-411

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

KEY NOTES: #

1. MANHOLE STEPS
2. 5' X 5' DOUBLE LEAF HATCH W/ FALL PROTECTION
3. 6' X 5' DOUBLE LEAF HATCH W/ FALL PROTECTION
4. 4" VENT W/ SS INSECT VENT SCREEN
5. 12" X 8" MJ REDUCER (RESTRAINED)
6. 12" MJ 90° BEND (RESTRAINED)
7. 12" FL COUPLING ADAPTER
8. 5' X 4' SINGLE LEAF HATCH W/ FALL PROTECTION
9. 8" FL 90° BEND
10. 12" FL COUPLING ADAPTER
11. 8" MJ TEE (RESTRAINED)
12. 8" FL COUPLING ADAPTER
13. 6" FL 90° BEND
14. 6" FL COUPLING ADAPTER
15. ECCENTRIC 6" X 3" REDUCER
16. 6" MJ TEE (RESTRAINED)
17. TWO (2) - 2" SCH40 304 SSTL GUIDE RAIL
18. 4" TIDEFLEX DUCKBILL CHECK VALVE (TYP.)
19. 5' X 4' DOUBLE HATCH W/ FALL PROTECTION
20. 6' X 3' SINGLE HATCH W/ FALL PROTECTION (TYP. 2)
21. 4' X 5' PRECAST METER VAULT (TYP.)
22. 7' X 7' PRECAST VALVE VAULT
23. 12' X 10' PRECAST WET WELL
24. 5' X 6' PRECAST VALVE VAULT
25. 4" VALVE VAULT DRAIN W/ P-TRAP
26. 6' X 6' PRECAST VALVE VAULT



C SECTION

D-411

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

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RAS WAS PUMP STATION - SECTIONS

D-412

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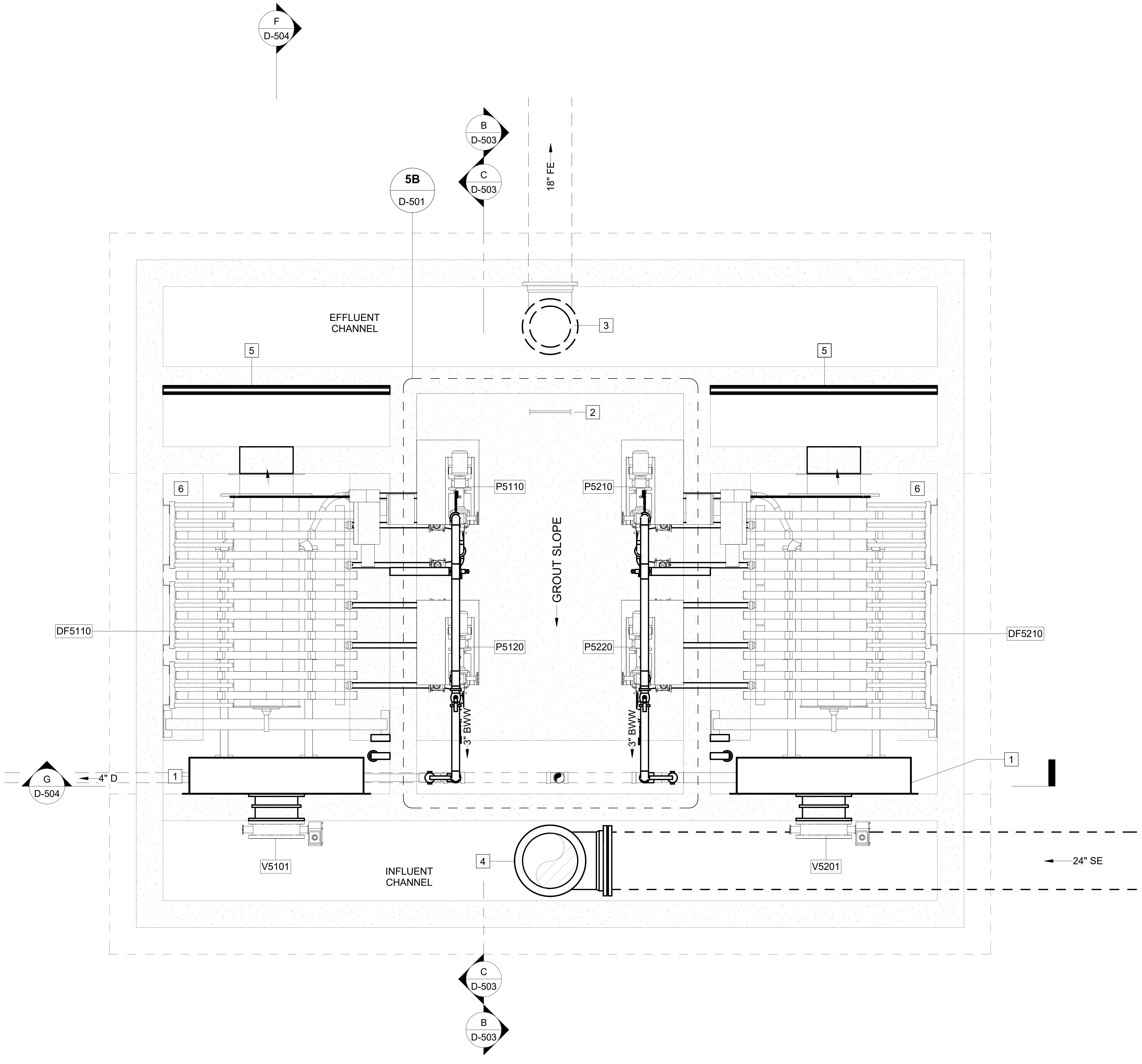
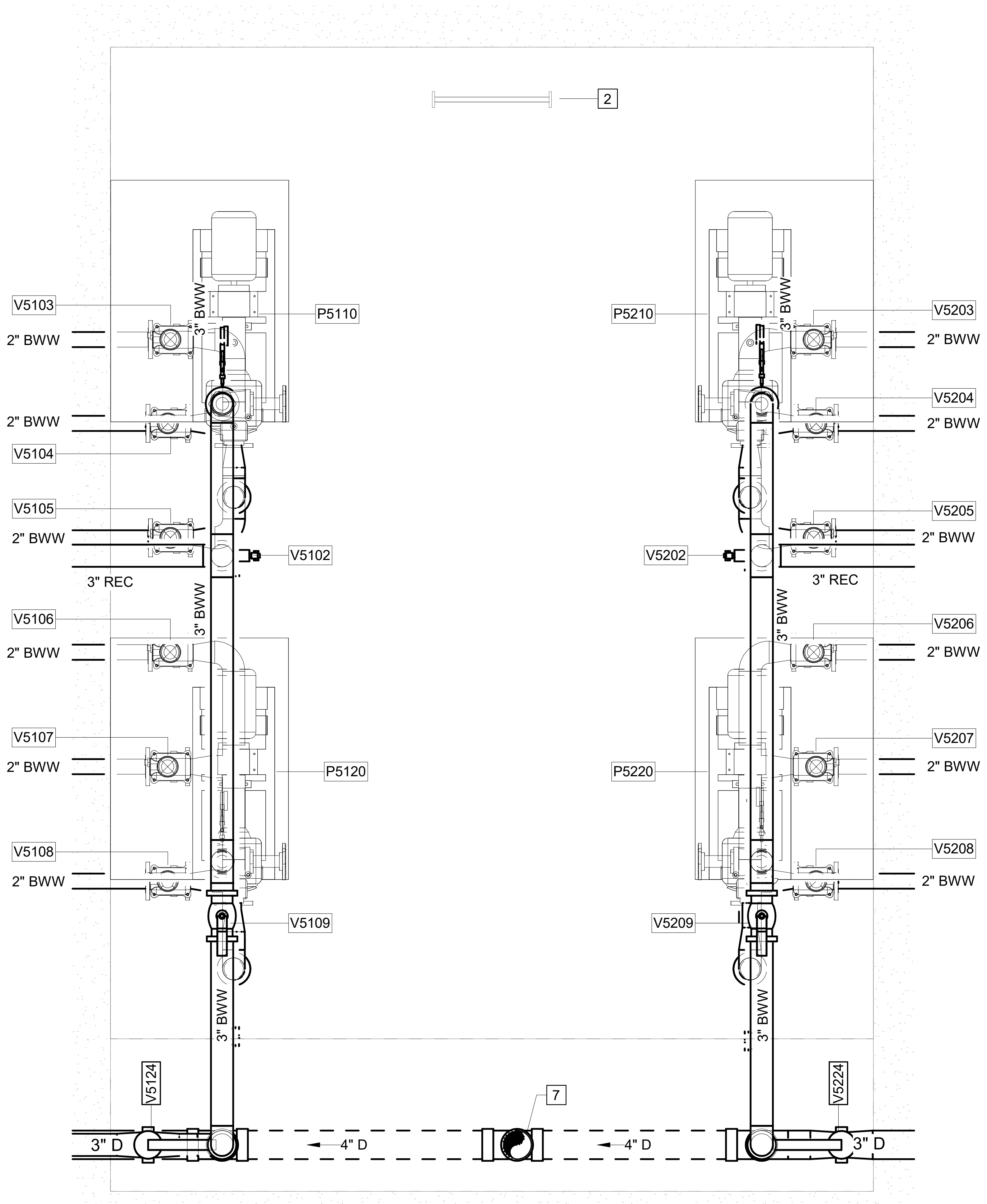
KEY NOTES: #

1. PREFABRICATED INFLUENT WEIR BOX
2. ALUMINUM LADDER
3. 18" 90° MJ BEND
4. 24" 90° MJ BEND
5. EFFLUENT WEIR
6. SLOPED GROUT
7. 4" TEE



5A D-501 **LOWER PLAN**
SCALE: 3/8" = 1'-0"



5B D-501 **ENLARGED PLAN**
SCALE: 3/4" = 1'-0"

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TERTIARY FILTERS - LOWER PLAN & ENLARGED PLAN

D-501

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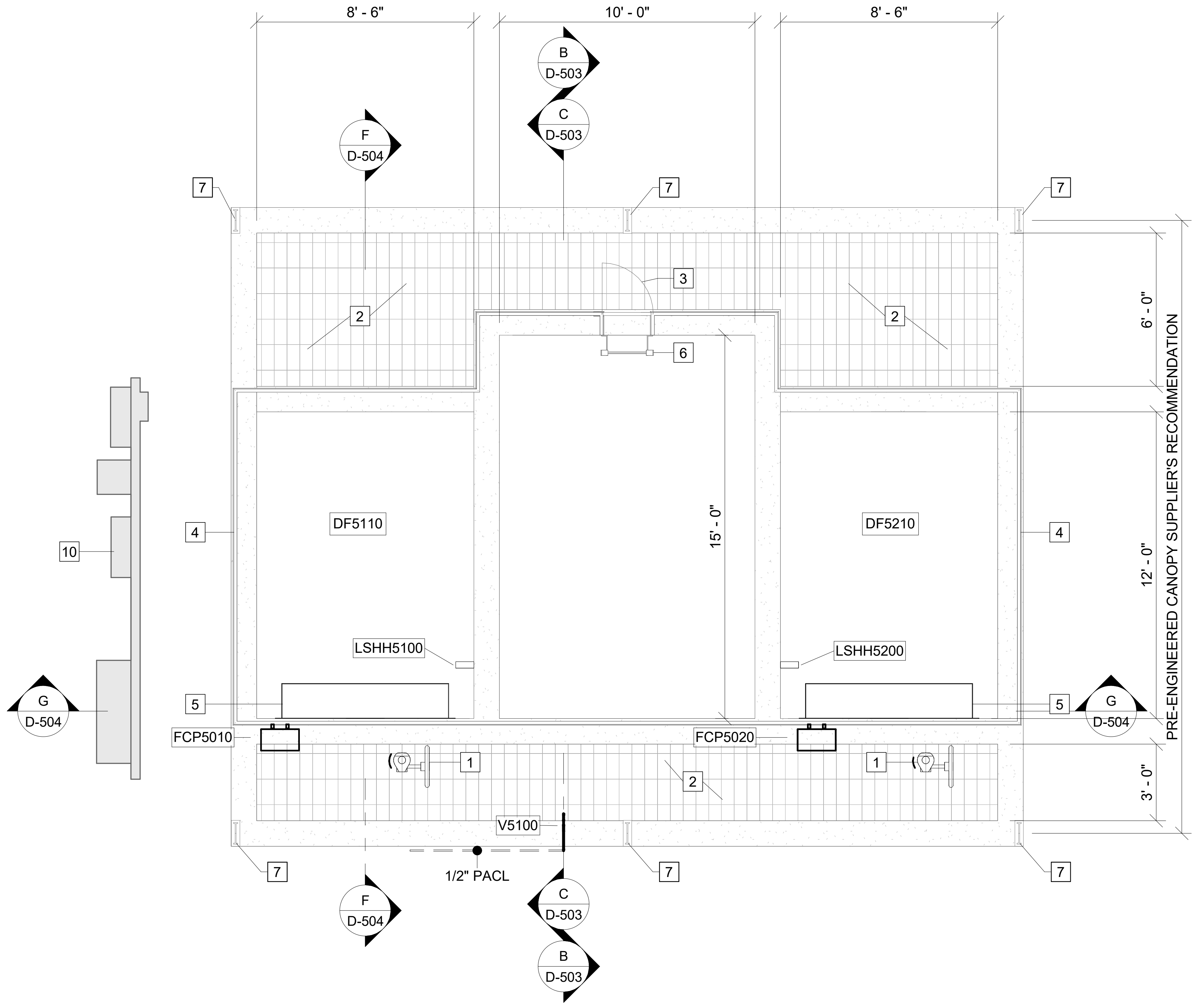
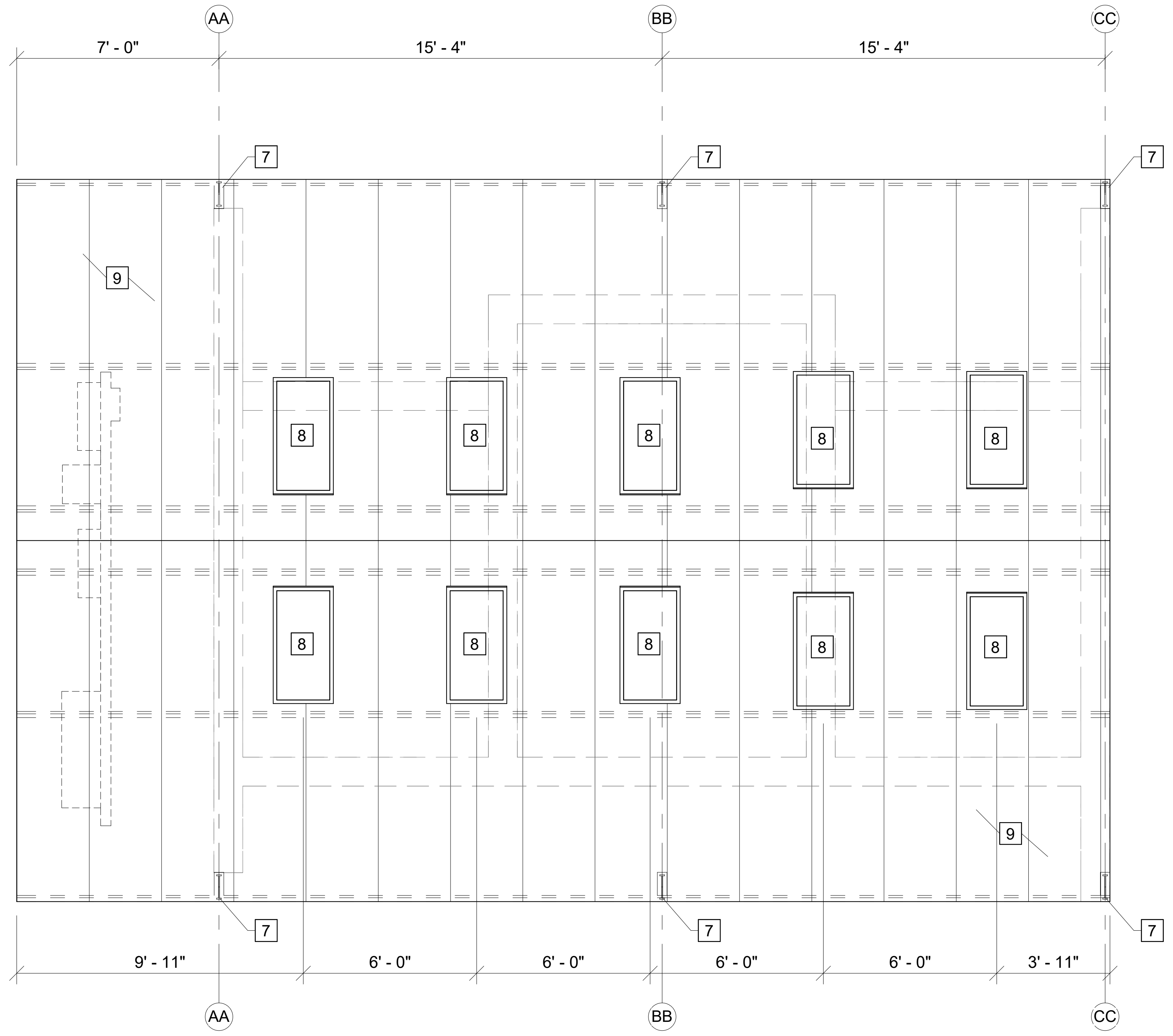
KEY NOTES: #

1. EXTENDED BONNET W/ MANUAL HAND-WHEEL
2. REMOVABLE I-BAR ALUMINUM GRATING
3. ALUMINUM SAFETY GATE
4. 3'-6" ALUMINUM HANDRAIL W/ KICK PLATE
5. PREFABRICATED INFLUENT WEIR BOX
6. ALUMINUM LADDER
7. PRE-ENGINEERED CANOPY ASSEMBLY
8. TRANSLUCENT SKYLIGHT PANEL
9. STANDING SEAM METAL ROOF PANELS
10. ELECTRICAL EQUIPMENT - SEE ELECTRICAL



5C
D-502
UPPER PLAN
SCALE: 1/4" = 1'-0"



5D
D-502
ROOF PLAN
SCALE: 1/4" = 1'-0"

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1" .5" 0" 1"

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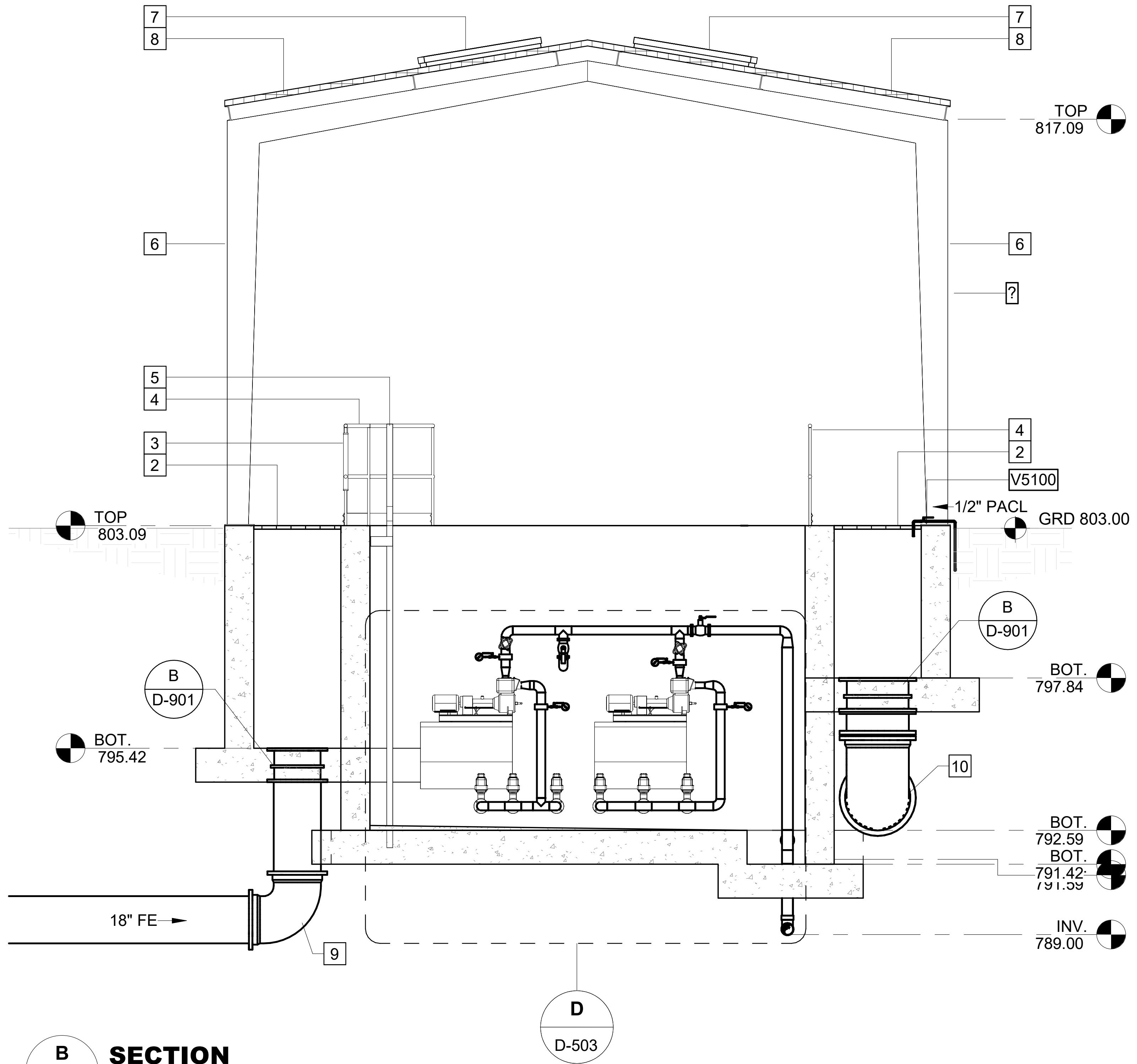
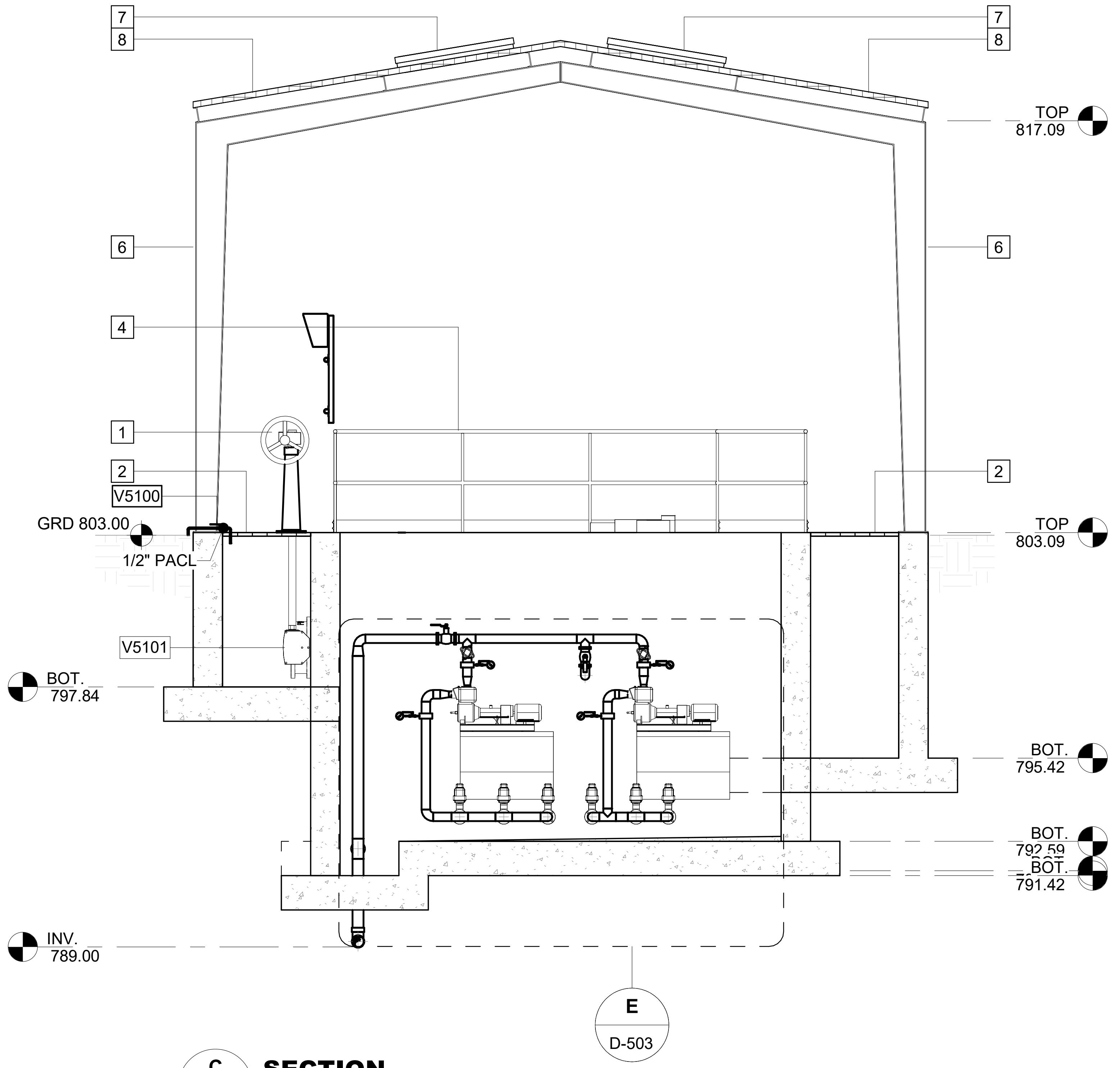
TERTIARY FILTERS - UPPER PLAN & ROOF PLAN

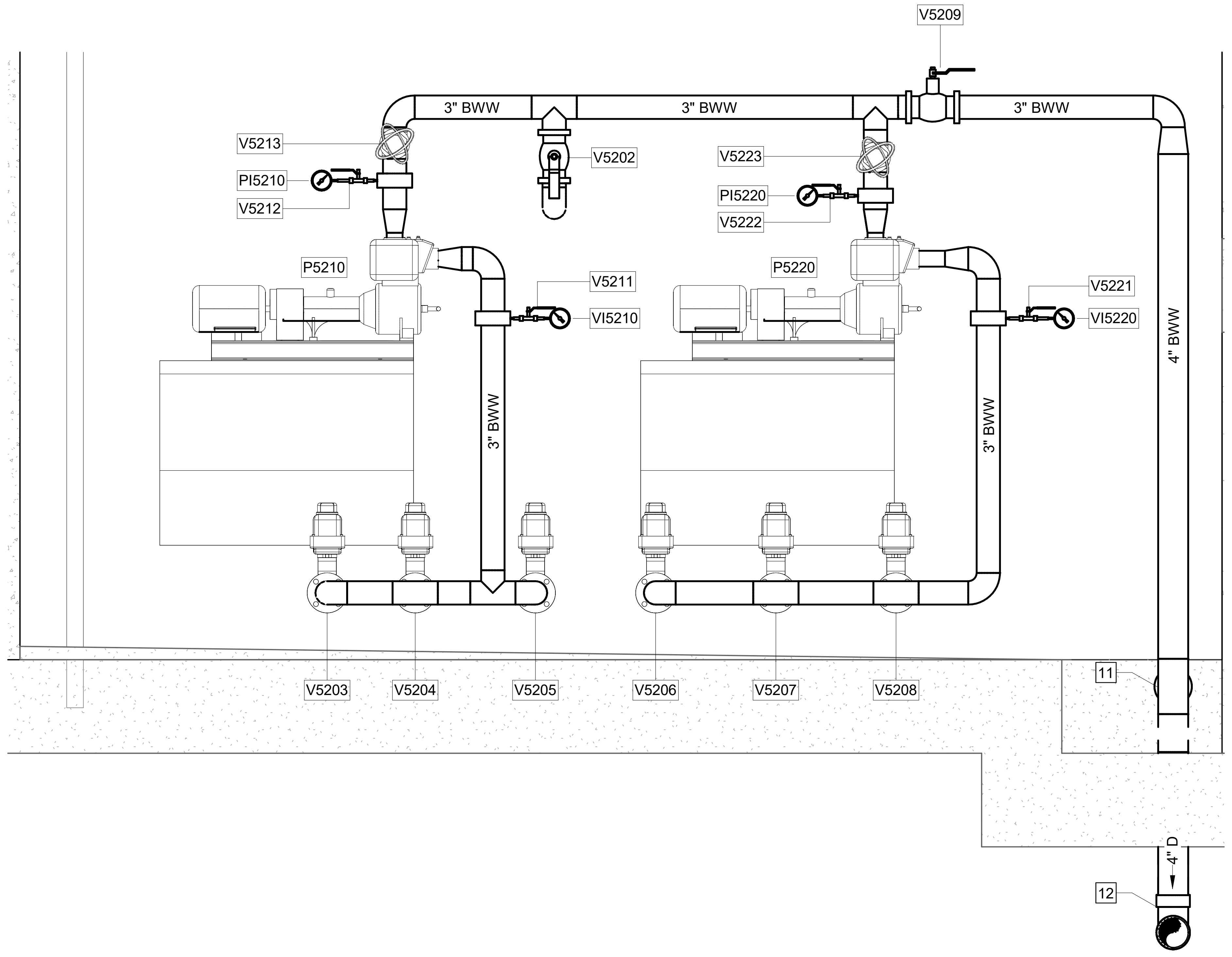
D-502



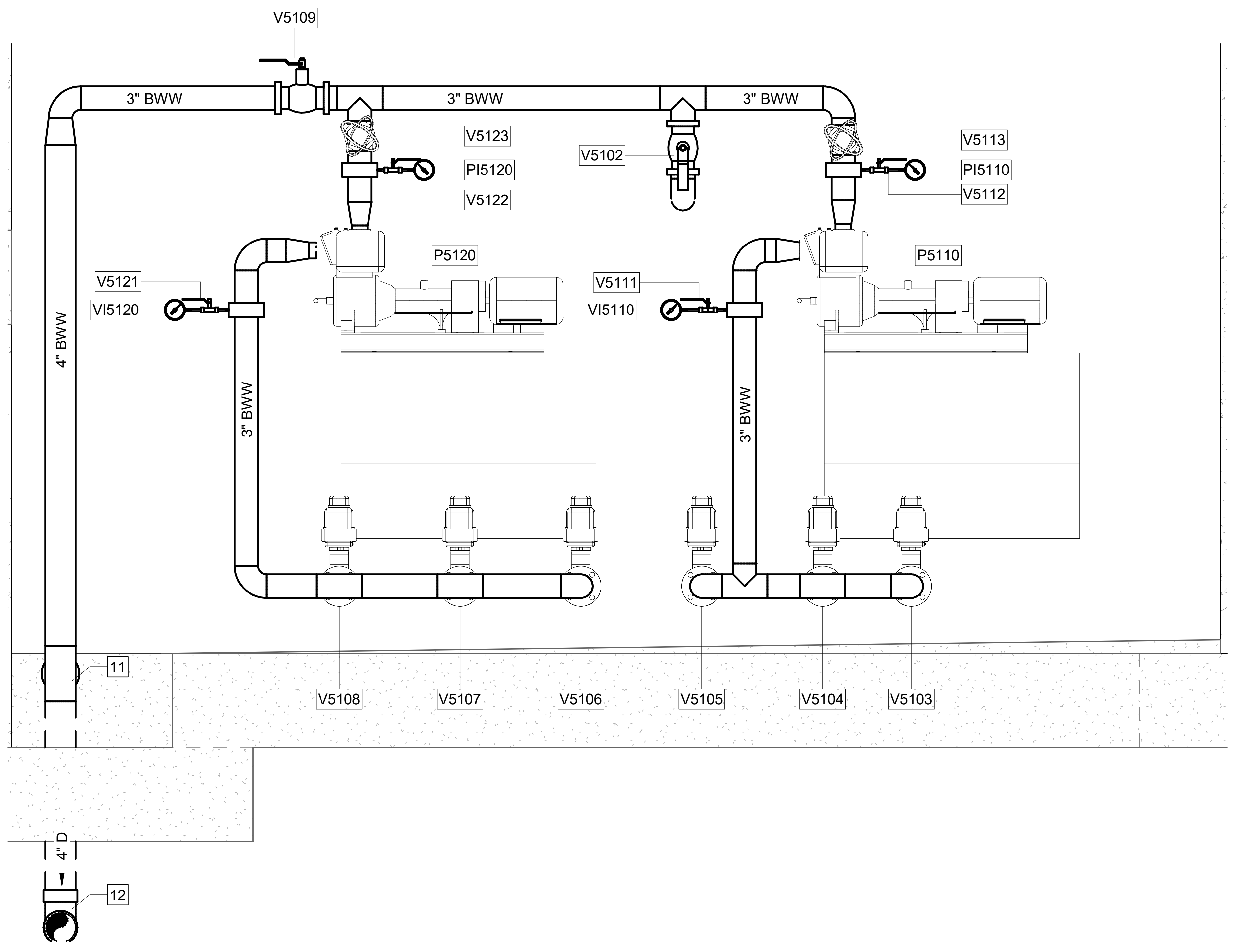
B
D-501
SECTION
SCALE: 1/4" = 1'-0"



C
D-501
SECTION
SCALE: 1/4" = 1'-0"



D
D-503
DETAILED SECTION
SCALE: 3/4" = 1'-0"



E
D-503
DETAILED SECTION
SCALE: 3/4" = 1'-0"

KEY NOTES: #

1. EXTENDED BONNET W/ MANUAL HAND-WHEEL
2. REMOVABLE I-BAR ALUMINUM GRATING
3. ALUMINUM SAFETY GATE
4. 3'-6" ALUMINUM HANDRAIL W/ KICK PLATE
5. ALUMINUM LADDER
6. PRE-ENGINEERED CANOPY ASSEMBLY
7. TRANSLUCENT SKYLIGHT PANEL
8. STANDING SEAM METAL ROOF PANELS
9. 18" 90° MJ BEND
10. 24" 90° MJ BEND
11. 4" X 3" TEE
12. 4" TEE

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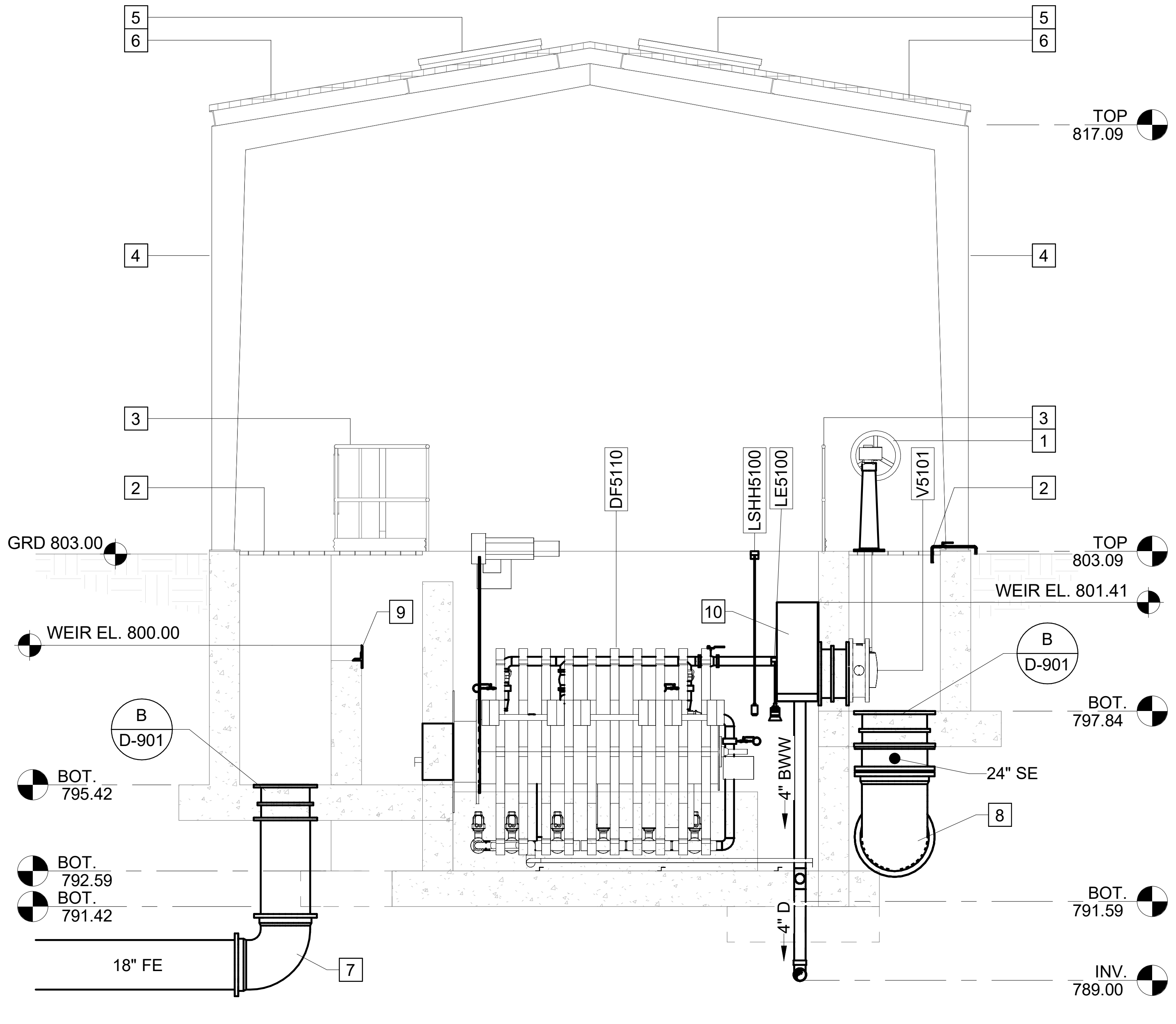
TERTIARY FILTERS - SECTIONS

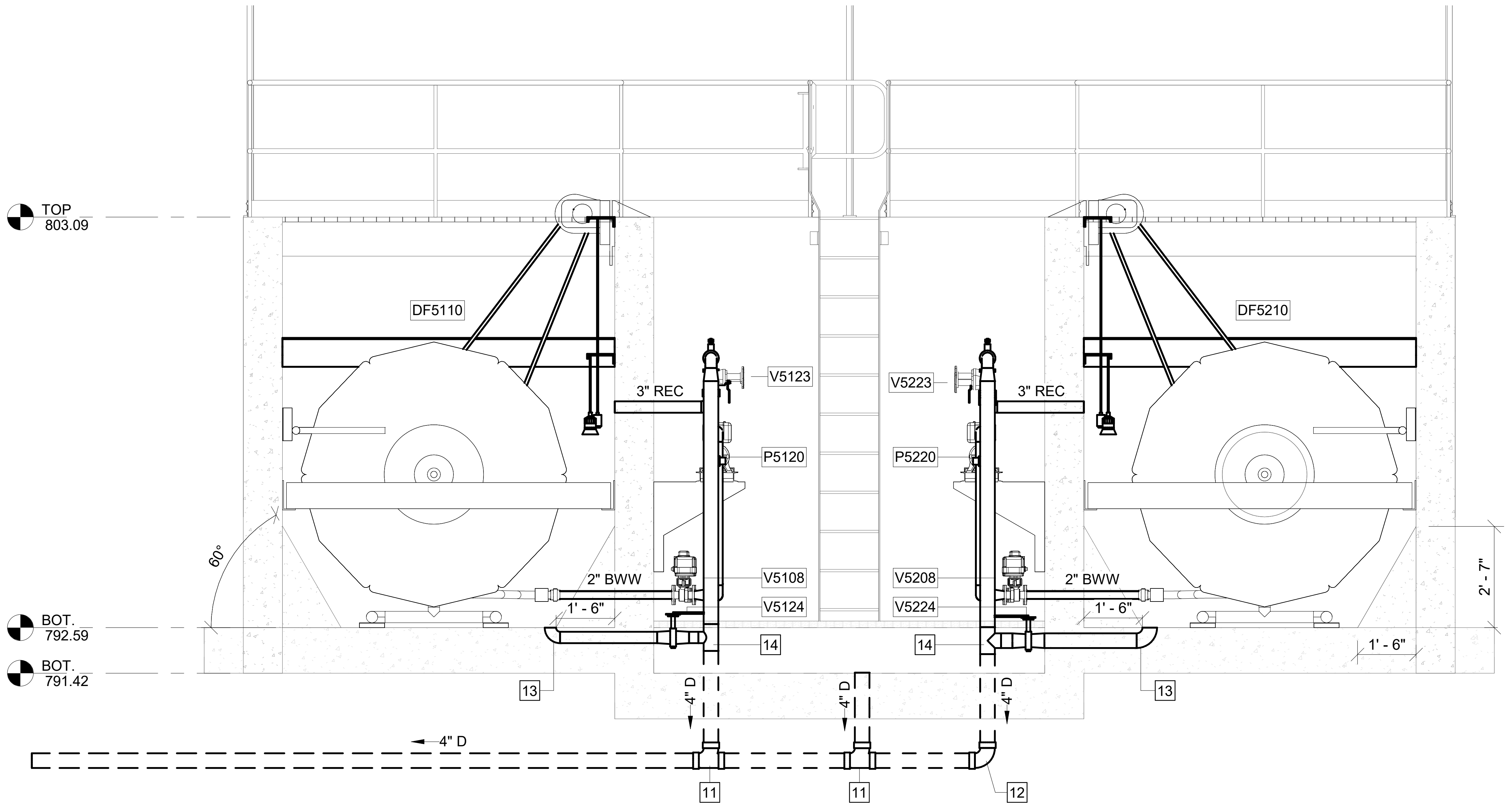
D-503



F
D-501
SECTION
SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. EXTENDED BONNET W/ MANUAL HAND-WHEEL
2. REMOVABLE I-BAR ALUMINUM GRATING
3. 3'-6" ALUMINUM HANDRAIL W/ KICK PLATE
4. PRE-ENGINEERED CANOPY ASSEMBLY
5. TRANSLUCENT SKYLIGHT PANEL
6. STANDING SEAM METAL ROOF PANELS
7. 18" 90° MJ BEND
8. 24" 90° MJ BEND
9. EFFLUENT WEIR
10. PREFABRICATED INFLUENT WEIR BOX
11. 4" TEE
12. 4" 90° BEND
13. 3" 90 BEND
14. 4" X 3" TEE



G
D-501
SECTION
SCALE: 3/8" = 1'-0"

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TERTIARY FILTERS - SECTIONS

D-504

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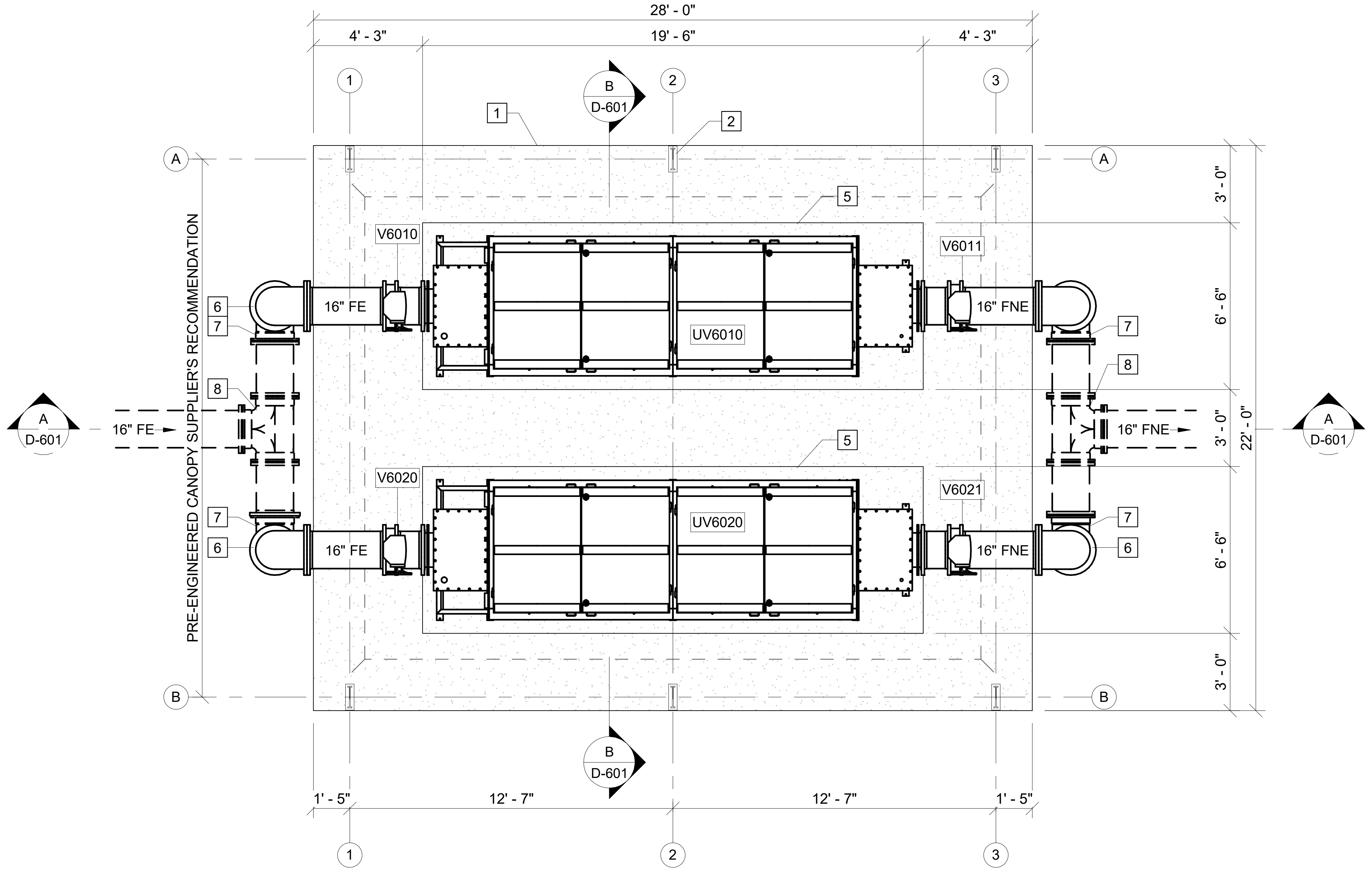
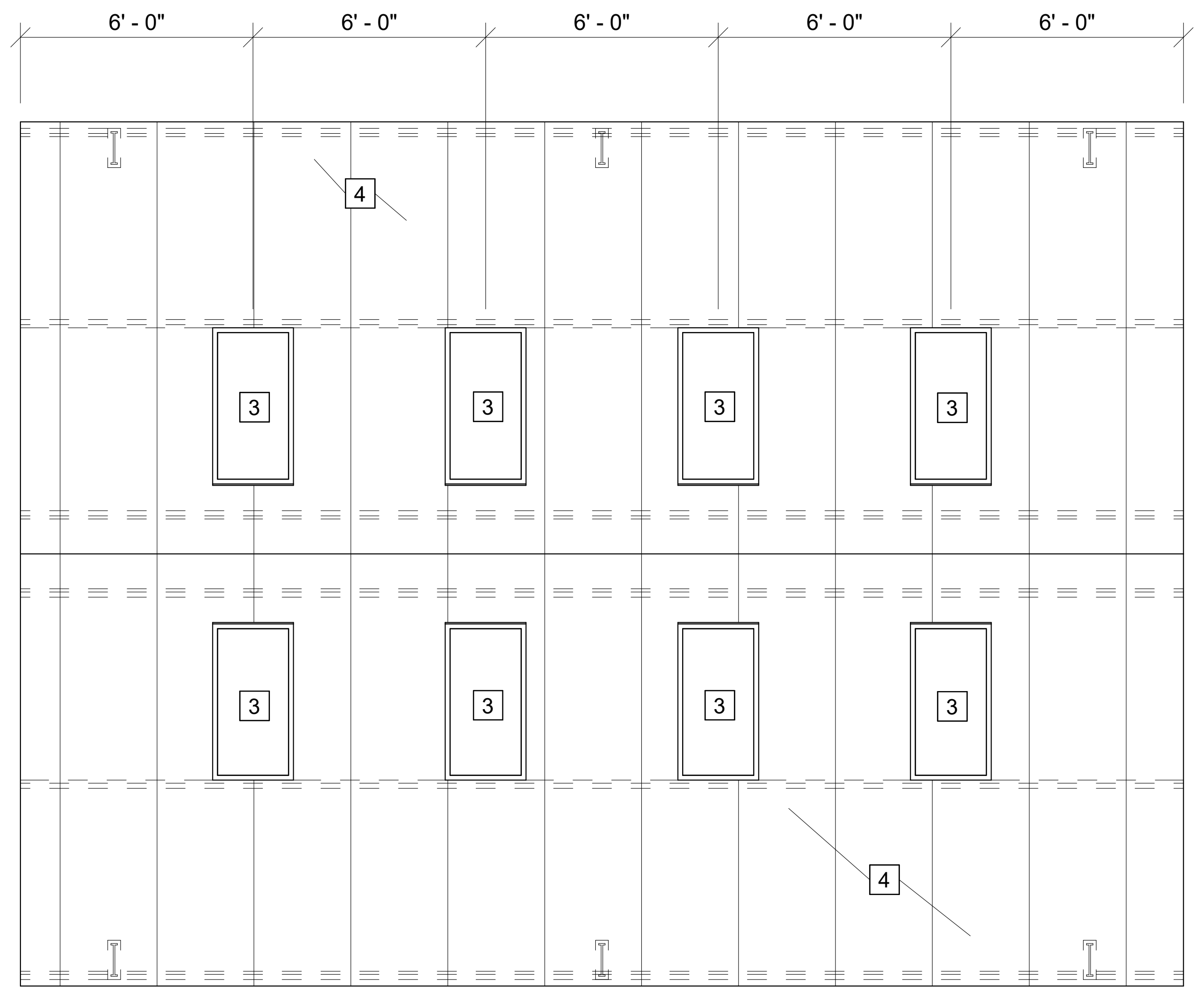


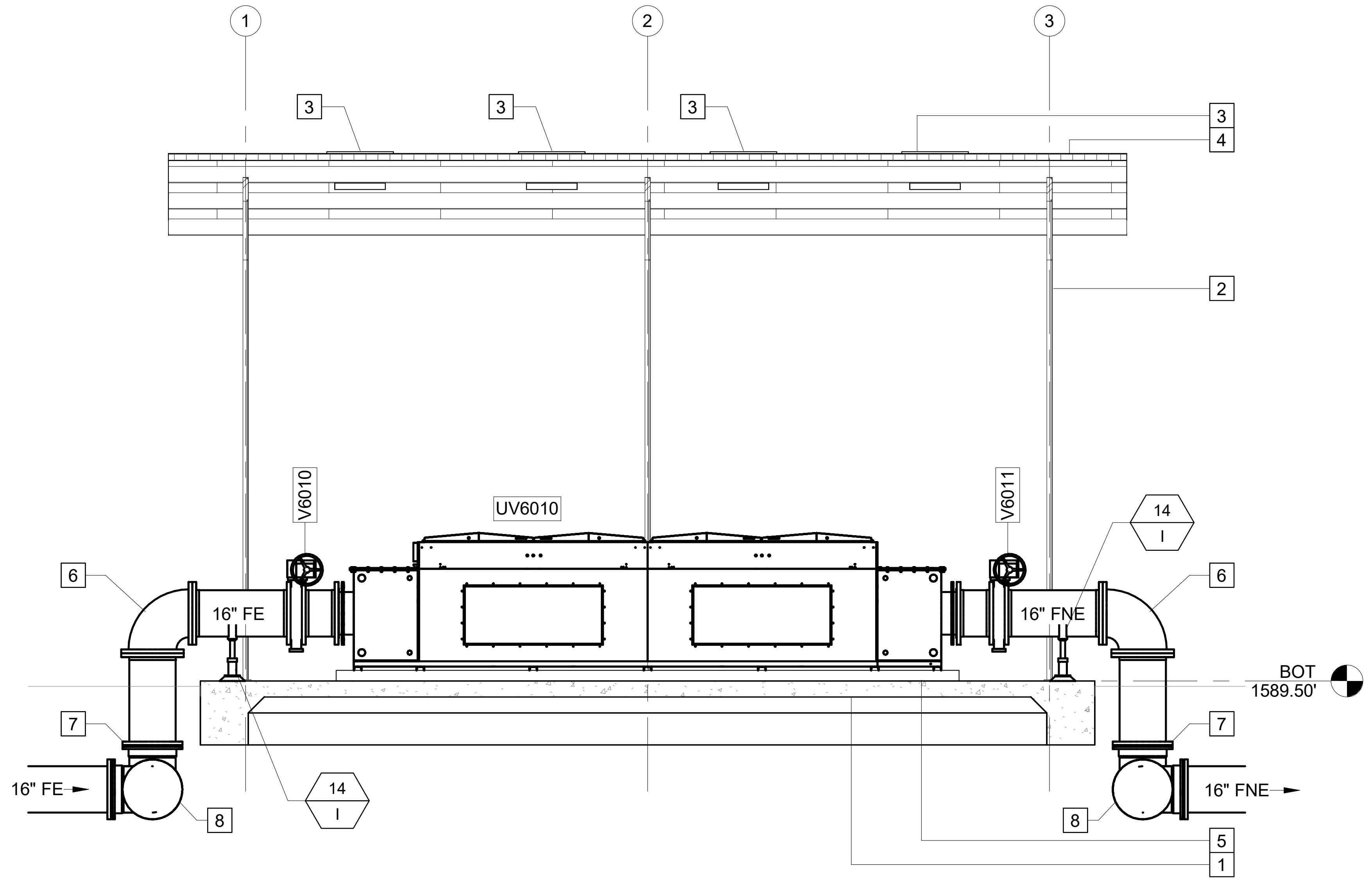
6A **PLAN**
D-601 SCALE: 1/4" = 1'-0"



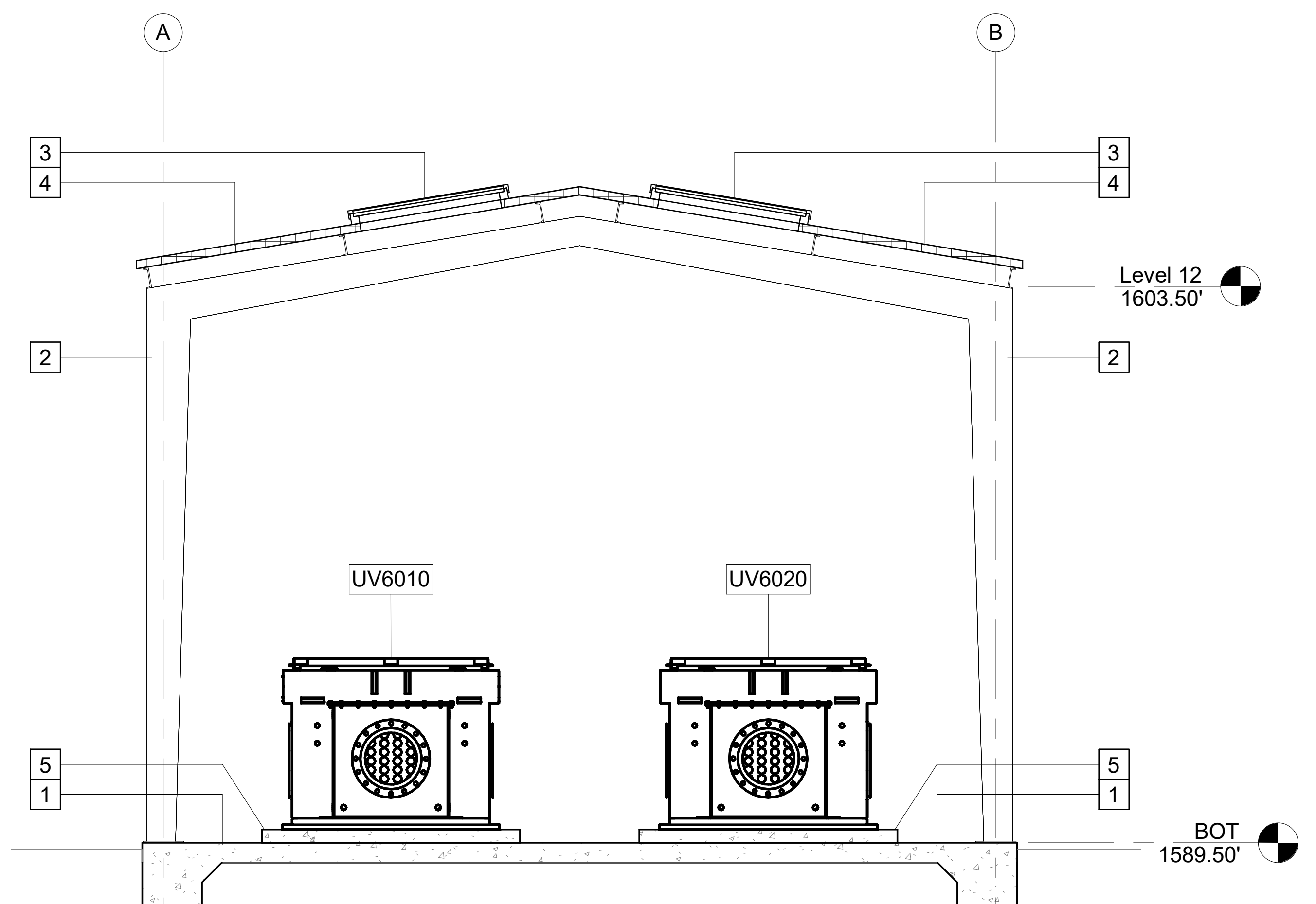
6B **ROOF PLAN**
D-601 SCALE: 1/4" = 1'-0"

KEY NOTES:

1. CONCRETE PAD
2. PRE-ENGINEERED CANOPY ASSEMBLY
3. TRANSLUCENT SKYLIGHT PANEL
4. STANDING SEAM METAL ROOF PANELS
5. 4" TALL CONCRETE EQUIPMENT PAD
6. 16" 90° FL BEND
7. 16" 90° MJ BEND
8. 16" MJ TEE



A **SECTION**
D-601 SCALE: 1/4" = 1'-0"



B **SECTION**
D-601 SCALE: 1/4" = 1'-0"

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ULTRAVIOLET DISINDECTION - PLANS & SECTIONS

D-601

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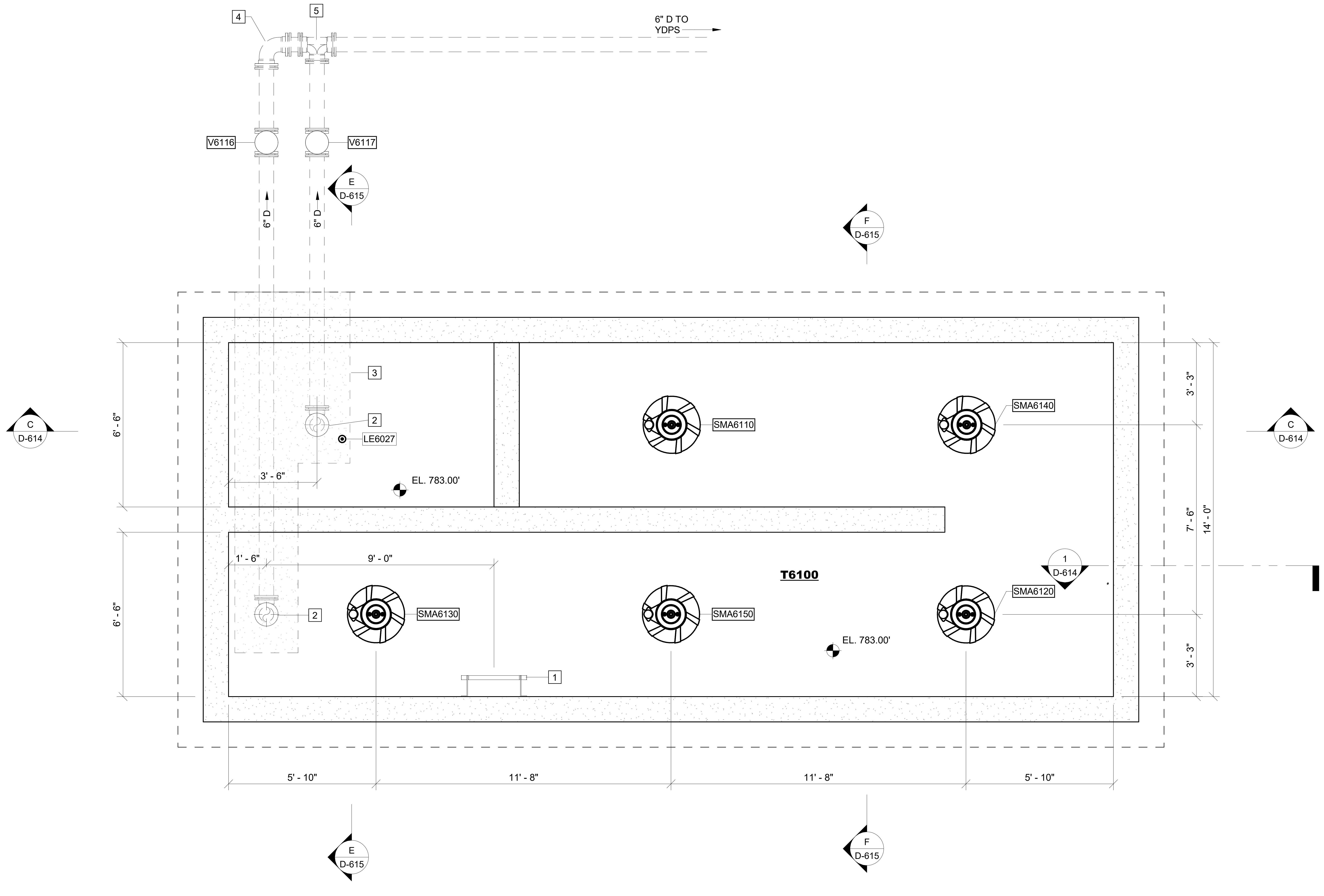
KEY NOTES: #

1. LADDER
2. 6" MJ 90° BEND
3. CONCRETE ENCASEMENT
4. 6" 90° MJ BEND
5. 6" MJ TEE



6B D-611 **LOWER PLAN**

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

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1" .5" 0" 1"

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Designer:	GS
Drawn By:	HKD/CE

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No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

PLANT REUSE WATER PUMP STATION AND POST AERATION - LOWER PLAN

D-611

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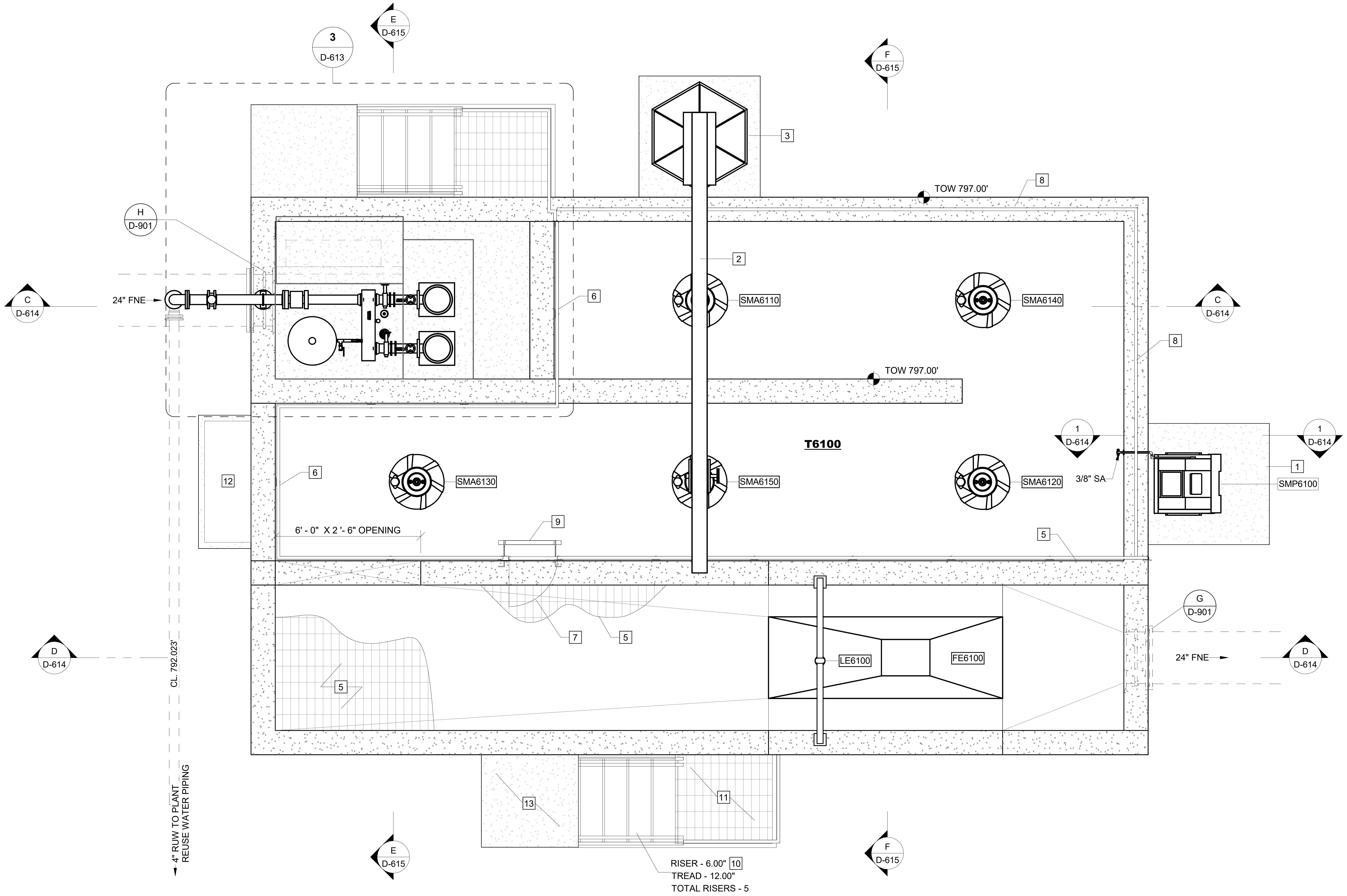

KEY NOTES: #

1. 5' X 5' X 6" THK CONCRETE PAD FOR AUTOMATIC SAMPLER
2. JIB CRANE
3. 5' X 5' X 4' THK CONCRETE PAD FOR JIB CRANE
4. GROUT
5. ALUMINUM I-BAR GRATING (OVER ENTIRE CHANNEL)
6. 3"-6" ALUMINUM HANDRAILS
7. 36"x24" SAFETY GATE
8. 1'-0" ALUMINUM SAFETY RAIL
9. LADDER
10. METAL STAIRS W/ RAILING
11. ELEVATED METAL LANDING
12. ELECTRICAL EQUIPMENT
13. CONCRETE LANDING

6C
D-612

UPPER PLAN

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

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GOODWYN MILLS CAWOOD, LLC
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1" 0" .5" 1"

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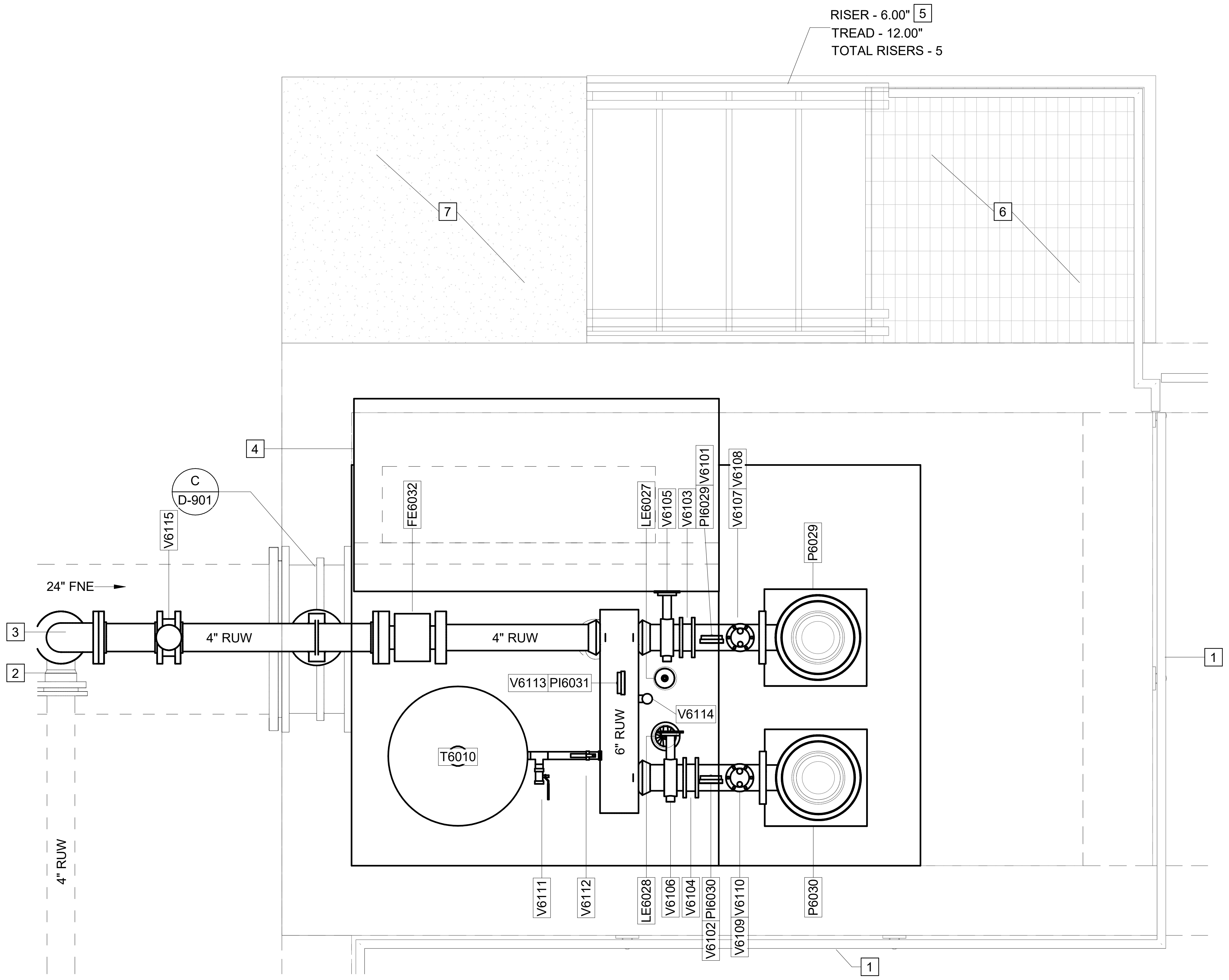
No. PE051452
Graham Sizemore
03.19.2025
GRAHAM S. SIZEMORE

PLANT REUSE WATER PUMP STATION AND POST AERATION - UPPER PLAN

D-612

KEY NOTES: #

1. 3'-6" ALUMINUM HANDRAIL
2. 4" MJ 90° BEND
3. 4" FL 90° BEND
4. VENDOR PACKAGE PUMP SKID
5. METAL STAIRS W/ RAILING
6. ELEVATED METAL LANDING
7. CONCRETE LANDING



3 D-612 **PLAN**
SCALE: 3/4" = 1'-0"

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PLANT REUSE WATER PUMP STATION AND POST AERATION - PIPING DETAIL PLAN

D-613

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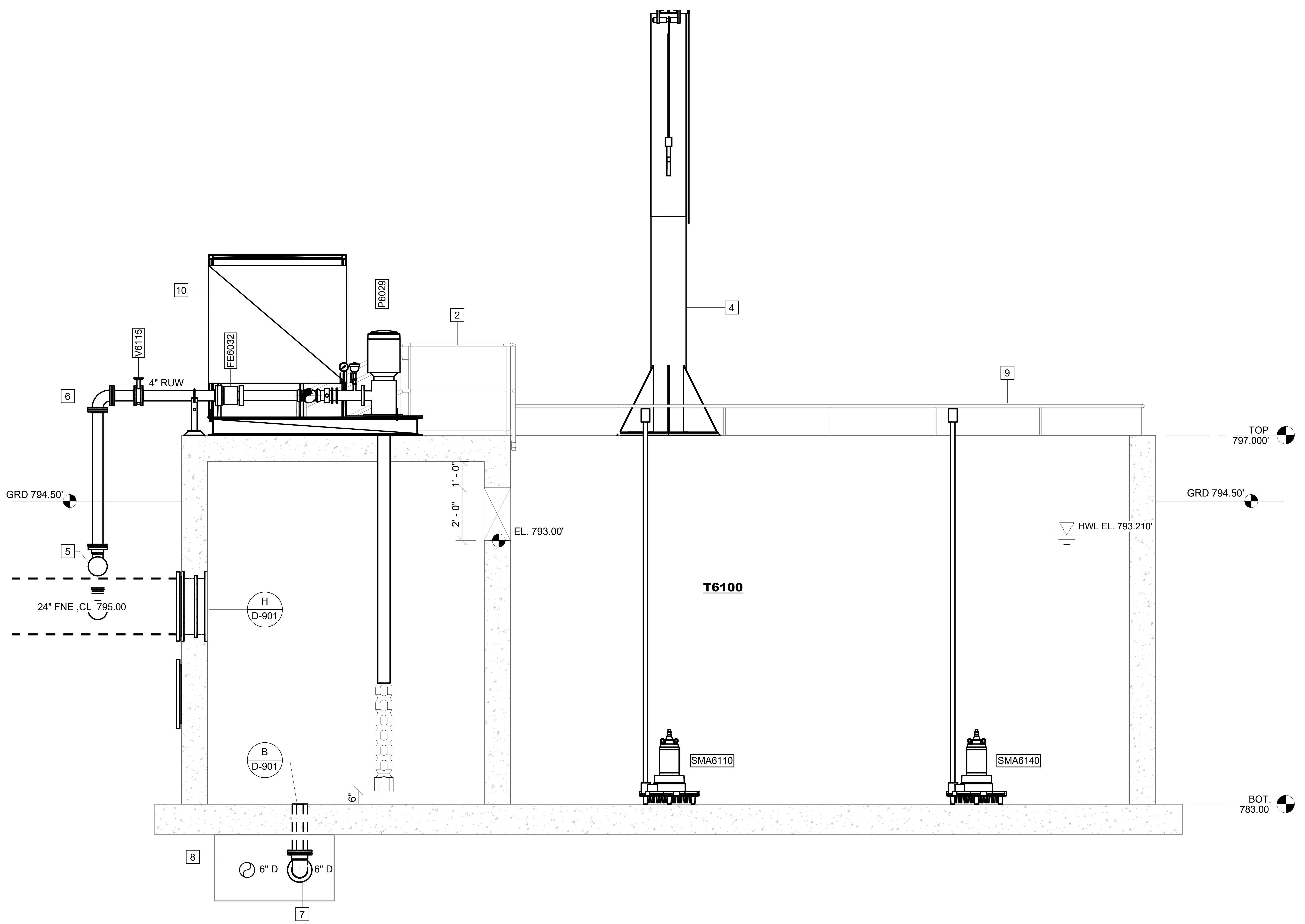
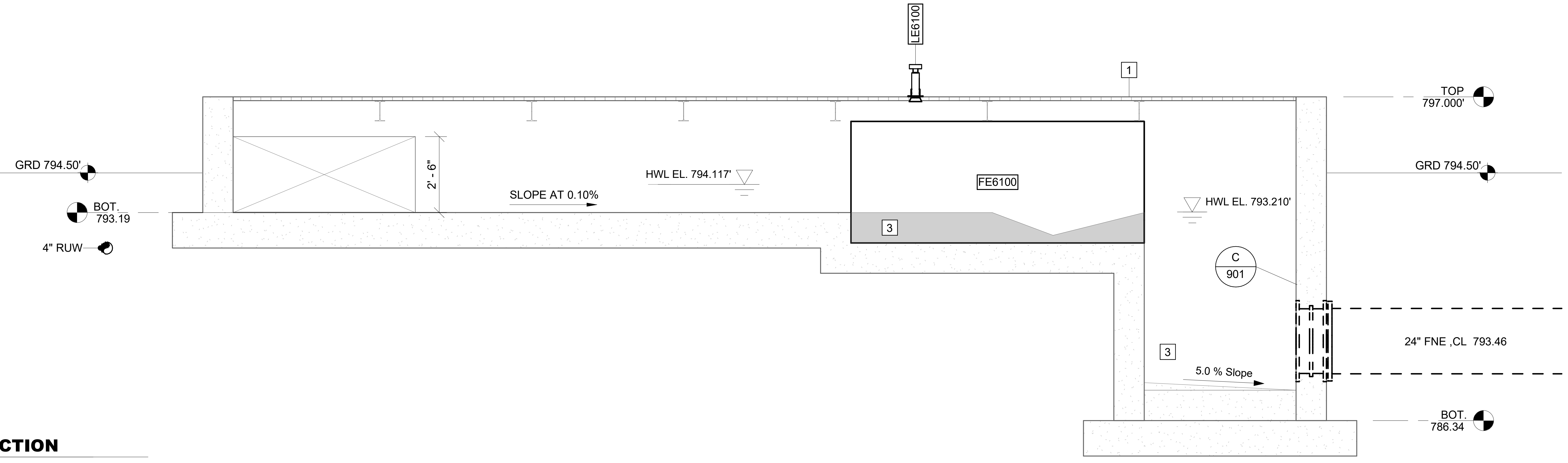
KEY NOTES: #

1. ALUMINUM I-BAR GRATING
2. 3'-6" ALUMINUM HANDRAIL
3. GROUT
4. JIB CRANE
5. 4" MJ 90° BEND
6. 4" FL 90° BEND
7. 6" MJ 90° BEND
8. CONCRETE ENCASEMENT
9. 1'-0" ALUMINUM SAFETY RAIL
10. 5' X 5' X 6" THK CONCRETE PAD FOR AUTOMATIC SAMPLER
11. VENDOR PACKAGE PUMP SKID



C
D-611
SECTION
SCALE: 3/8" = 1'-0"



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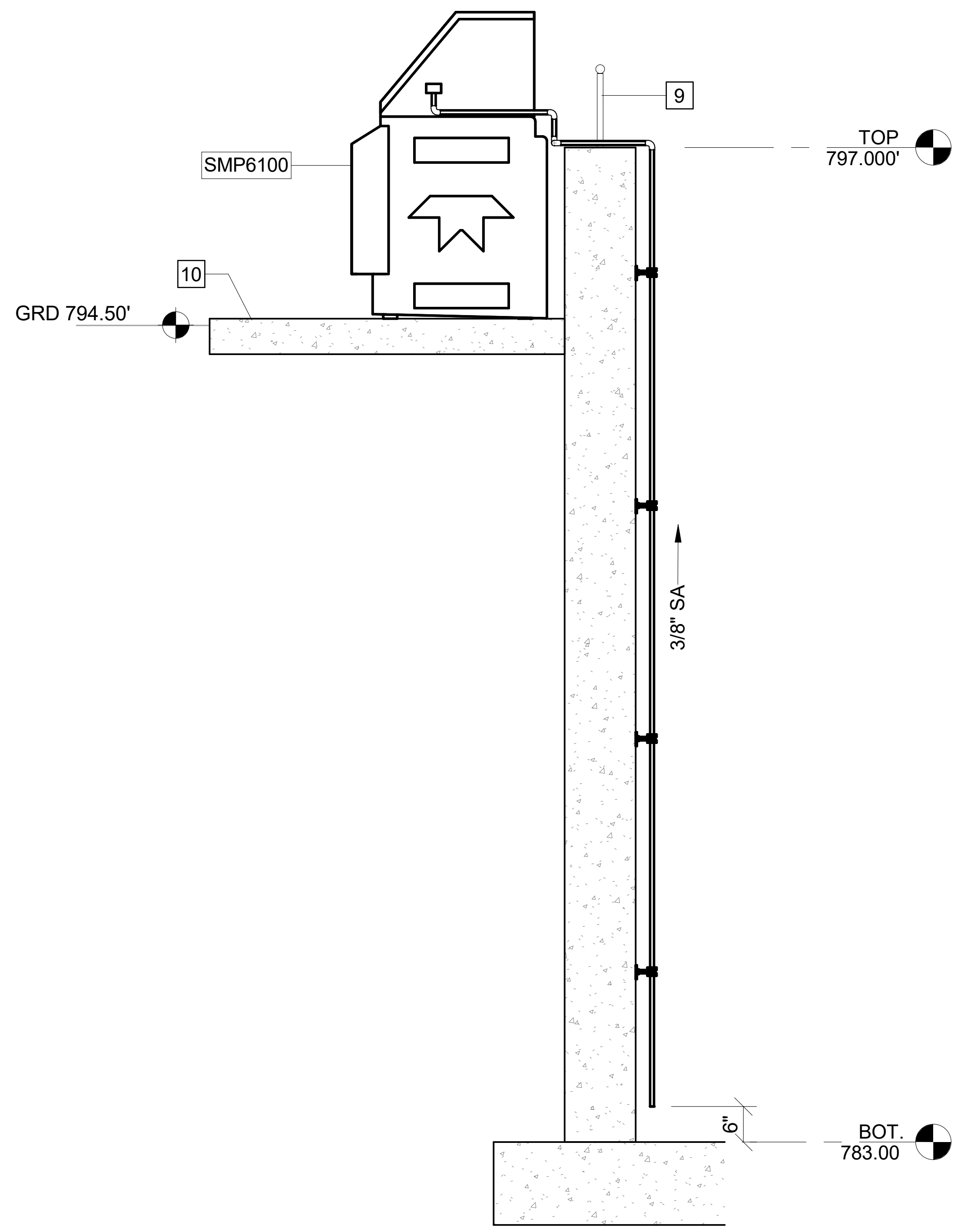
D-612
SECTION
SCALE: 3/8" = 1'-0"



1
D-611
SECTION
SCALE: 1/2" = 1'-0"

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GOODWYN MILLS CAWOOD, LLC
No. PEF007898
Exp. 06.30.2026
CERTIFICATE OF AUTHORIZATION

1" .5" 0"

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No. PE051452
PROFESSIONAL
Graham Sizemore
03.19.2025
ENGINEER
GRAHAM S. SIZEMORE

PLANT REUSE WATER PUMP STATION AND POST AERATION - SECTIONS

D-614

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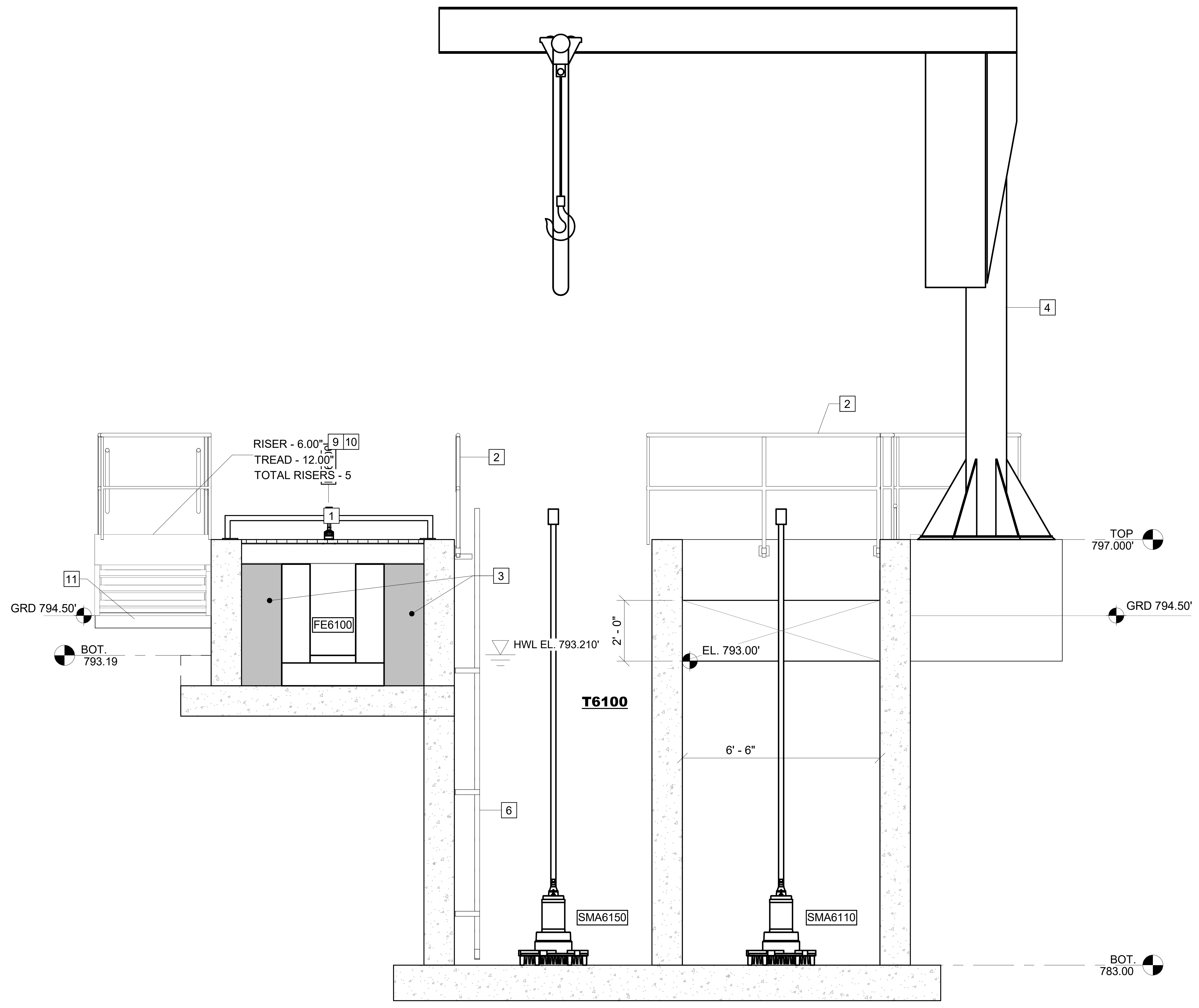
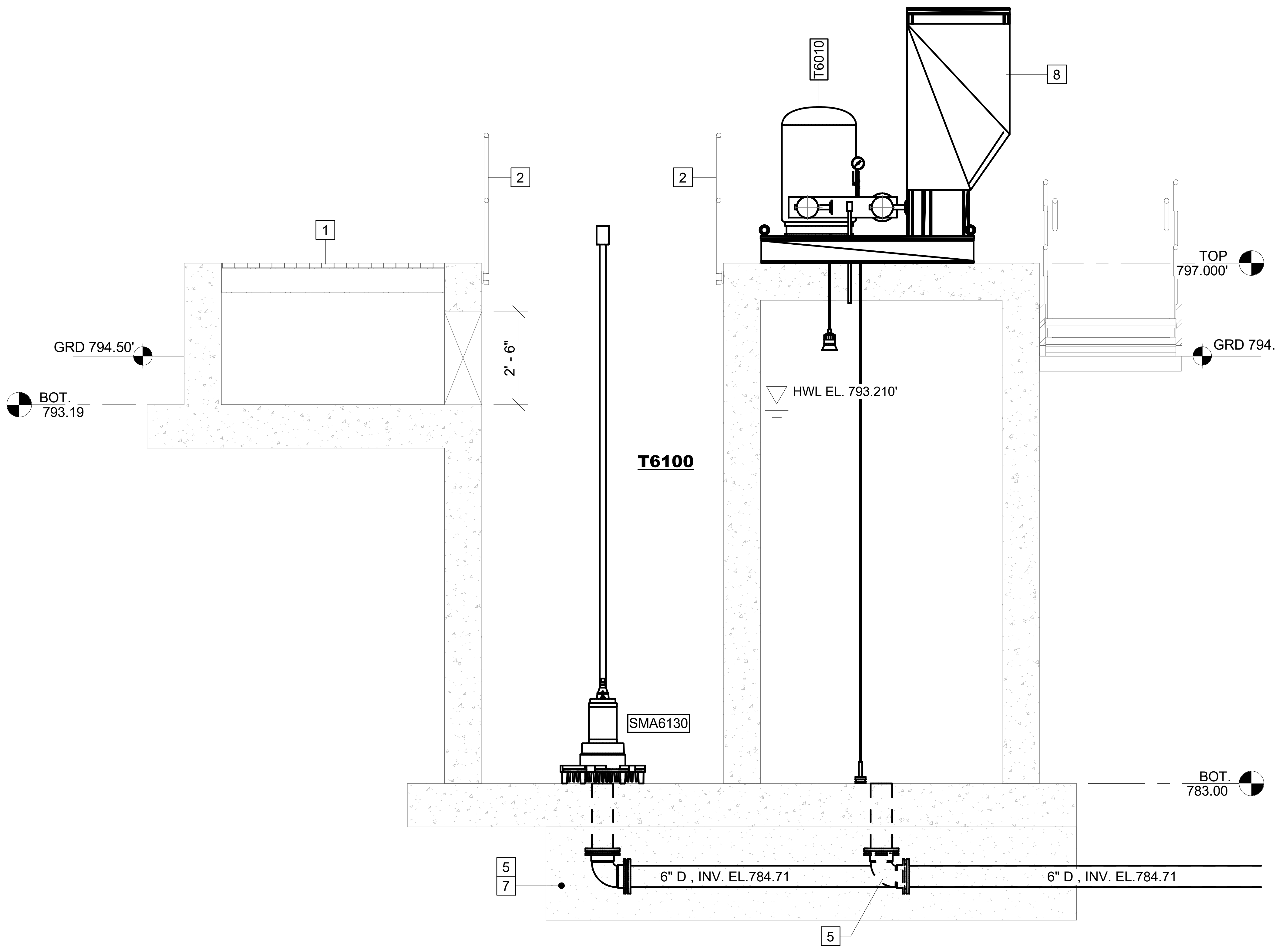
KEY NOTES: #

1. ALUMINUM I-BAR GRATING
2. 3'-6" ALUMINUM HANDRAIL
3. GROUT
4. JIB CRANE W/ 5' X 5' X 4' THK CONCRETE PAD
5. 6" MJ 90° BEND
6. LADDER
7. CONCRETE ENCASEMENT
8. VENDOR PACKAGE PUMP SKID
9. METAL STAIRS W/ RAILING
10. ELEVATED METAL LANDING
11. CONCRETE LANDING



F
D-611
SECTION
SCALE: 3/8" = 1'-0"



E
D-611
SECTION
SCALE: 3/8" = 1'-0"

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PLANT REUSE WATER PUMP STATION AND POST AERATION - SECTIONS

D-615

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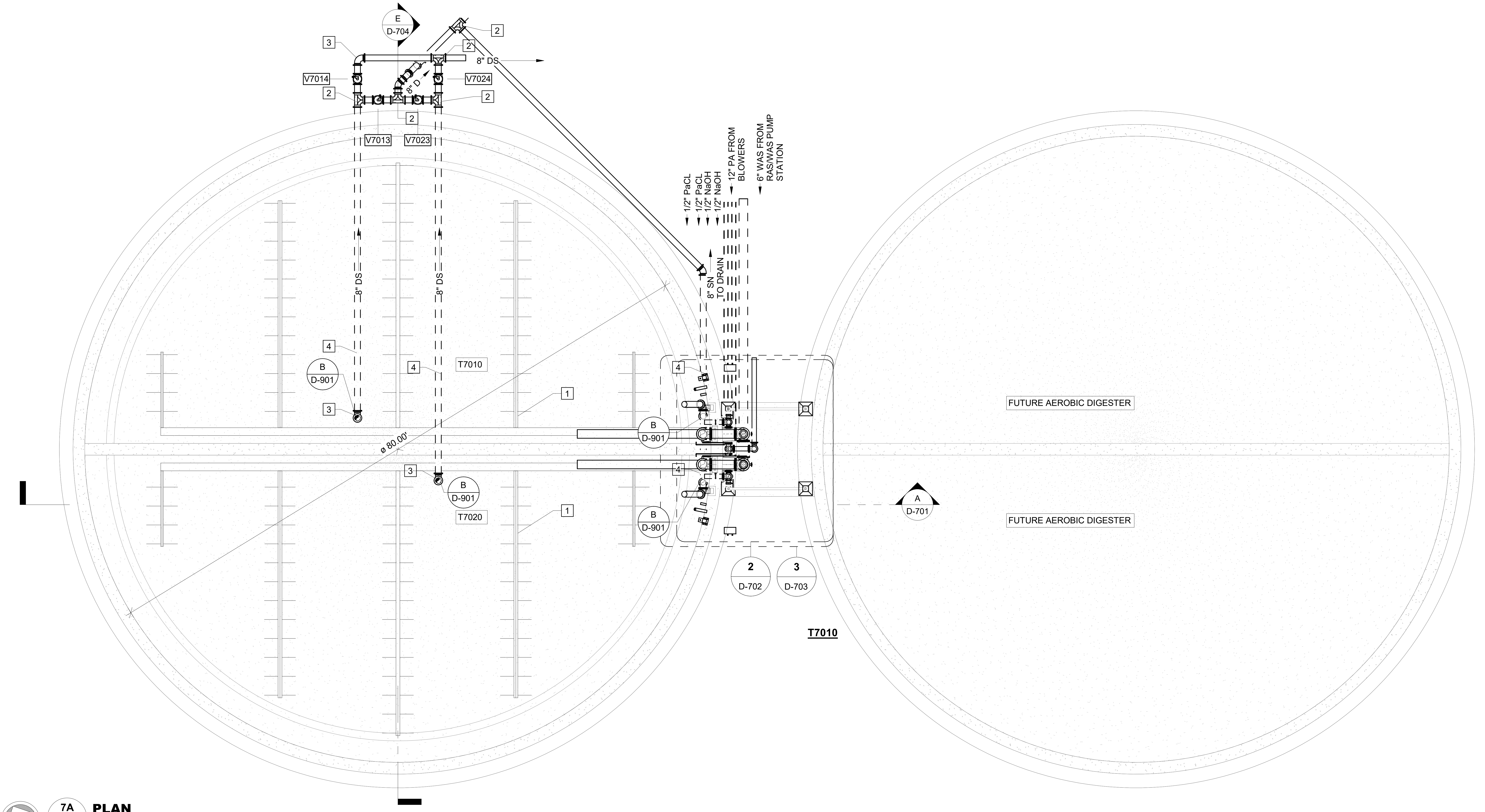
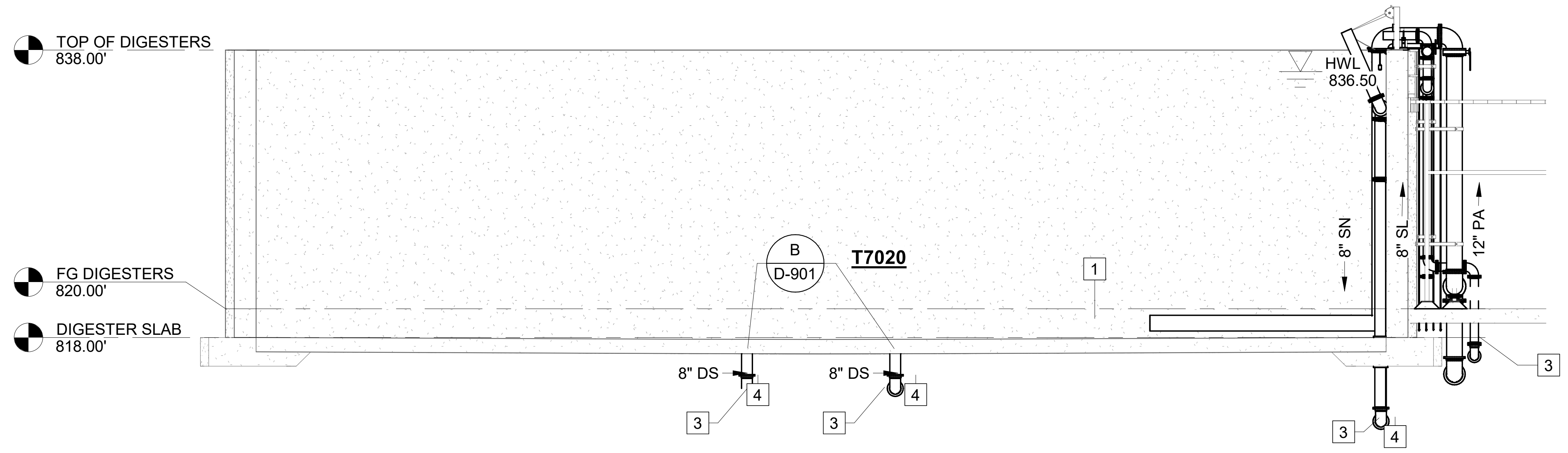


7A
D-701

PLAN

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



A
D-701

SECTION

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

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KEY NOTES: #

1. DIFFUSER ASSEMBLY
2. 8" MJ TEE
3. 8" 90° MJ BEND
4. CONCRETE ENCASEMENT

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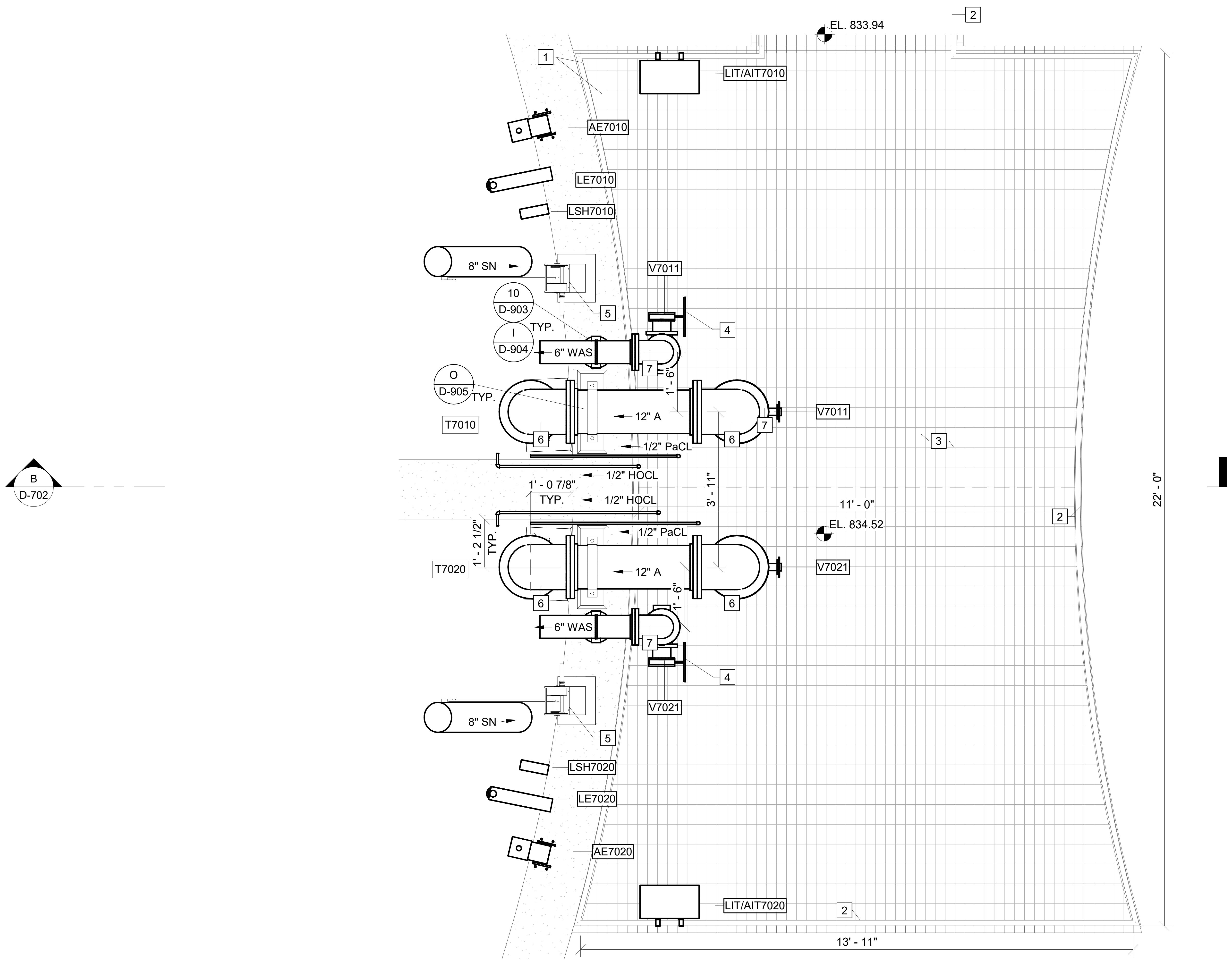
03.19.2025
GRAHAM S. SIZEMORE

AEROBIC DIGESTERS -
PLAN AND SECTION

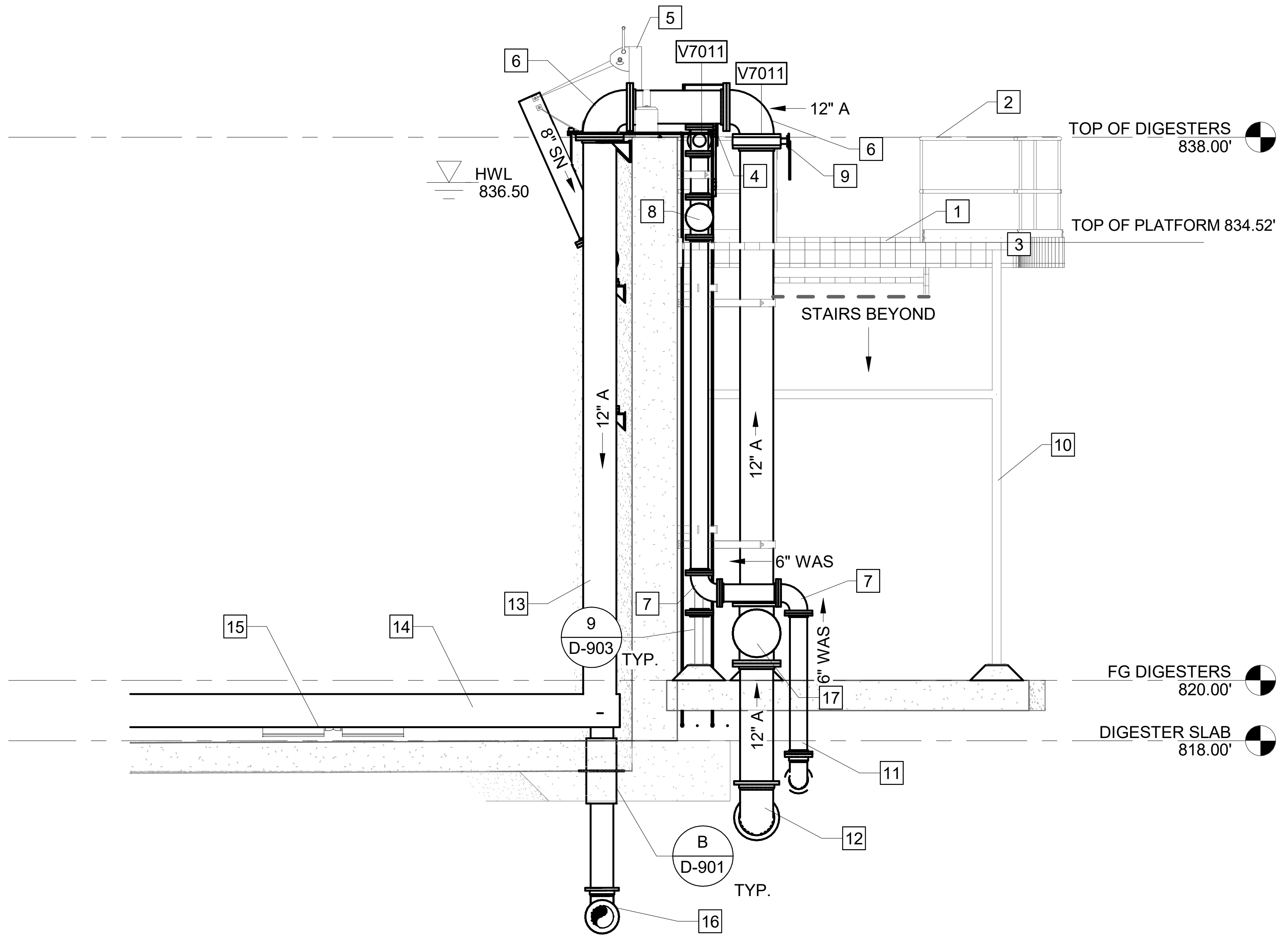
D-701



2 UPPER PLAN

D-701

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



B SECTION

D-702

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

KEY NOTES: #

1. PRE-FABRICATED ALUMINUM STAIRS AND PLATFORM - DELEGATED DESIGN - PROVIDE PROVISIONS FOR PIPE ENTRANCES THROUGH GRATED FLOOR
2. ALUMINUM HANDRAIL
3. GRATED FLOOR
4. HANDWHEEL ACTUATOR
5. HANDWINCH FOR DECANTER
6. 12" 90° FL BEND
7. 6" 90° FL BEND
8. 6" FL TEE
9. LEVER ACTUATOR
10. STAIR AND PLATFORM SUPPORTS BY PRE-FAB VENDOR
11. 6" 90° MJ BEND
12. 12" 90° MJ BEND
13. SST DROP PIPE
14. COARSE BUBBLE DIFFUSER HEADER
15. COARSE BUBBLE LATERAL AND DIFFUSER
16. 8" 90° MJ BEND
17. 12" FL TEE

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AEROBIC DIGESTERS - UPPER PLAN AND SECTION

D-702

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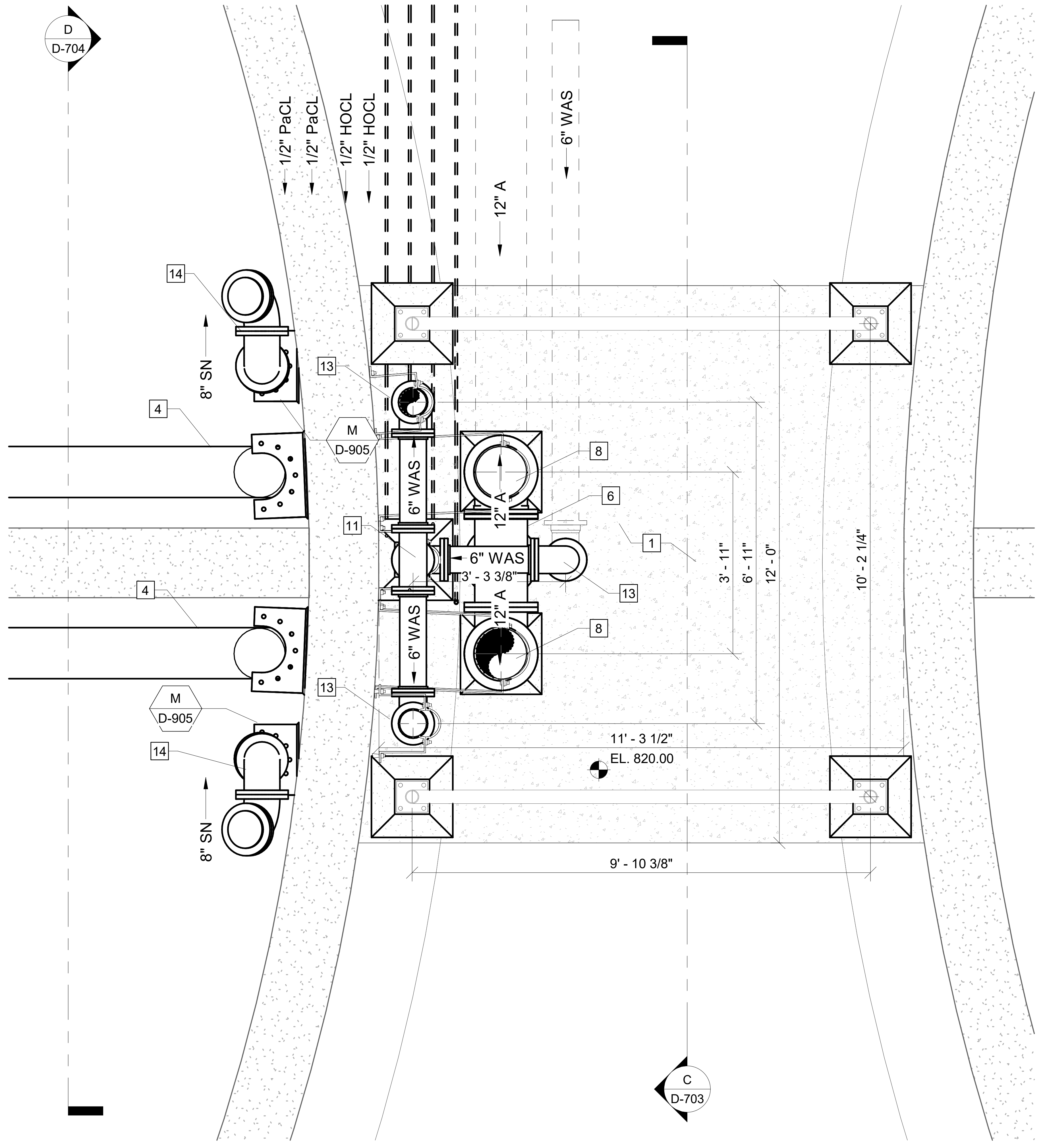
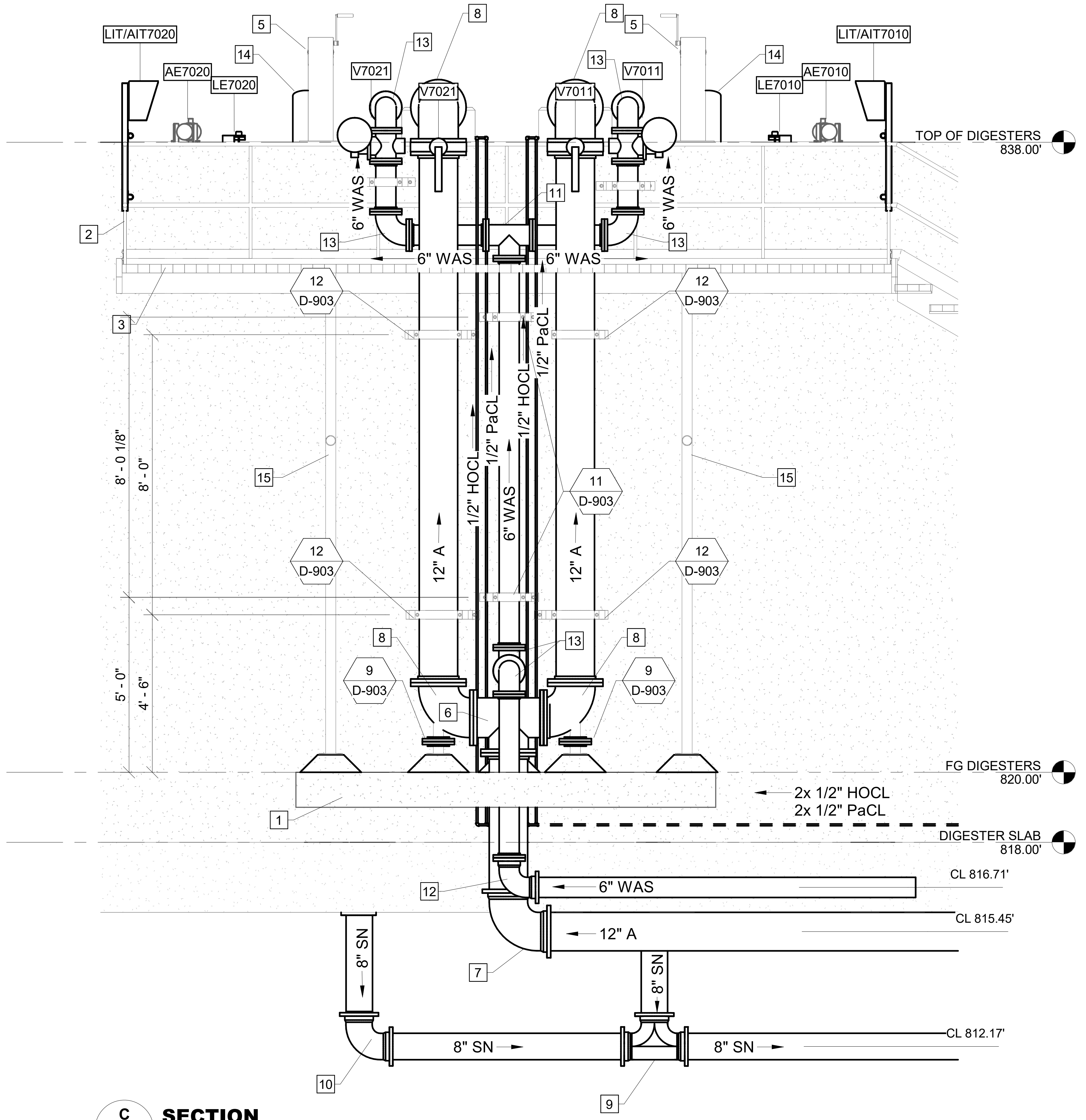


3 PIPING PLAN
D-701 SCALE: 1/2" = 1'-0"



C SECTION
D-703 SCALE: 3/8" = 1'-0"

KEY NOTES: #

1. CONCRETE PAD
2. ALUMINUM HANDRAIL
3. GRATED FLOOR
4. DIFFUSER ASSEMBLY HEADER AND SST DROP PIPE
5. HANDWINCH FOR DECANTER
6. 12" FL TEE
7. 12" 90° MJ BEND
8. 12" 90° FL BEND
9. 8" MJ TEE
10. 8" 90° MJ BEND
11. 6" FL TEE
12. 6" 90° MJ BEND
13. 6" 90° FL BEND
14. 8" DECANTER ASSEMBLY
15. PRE-FABRICATED ALUMINUM STAIRS SUPPORT SYSTEM - BY VENDOR

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AEROBIC DIGESTERS - PIPING PLAN AND SECTION

D-703

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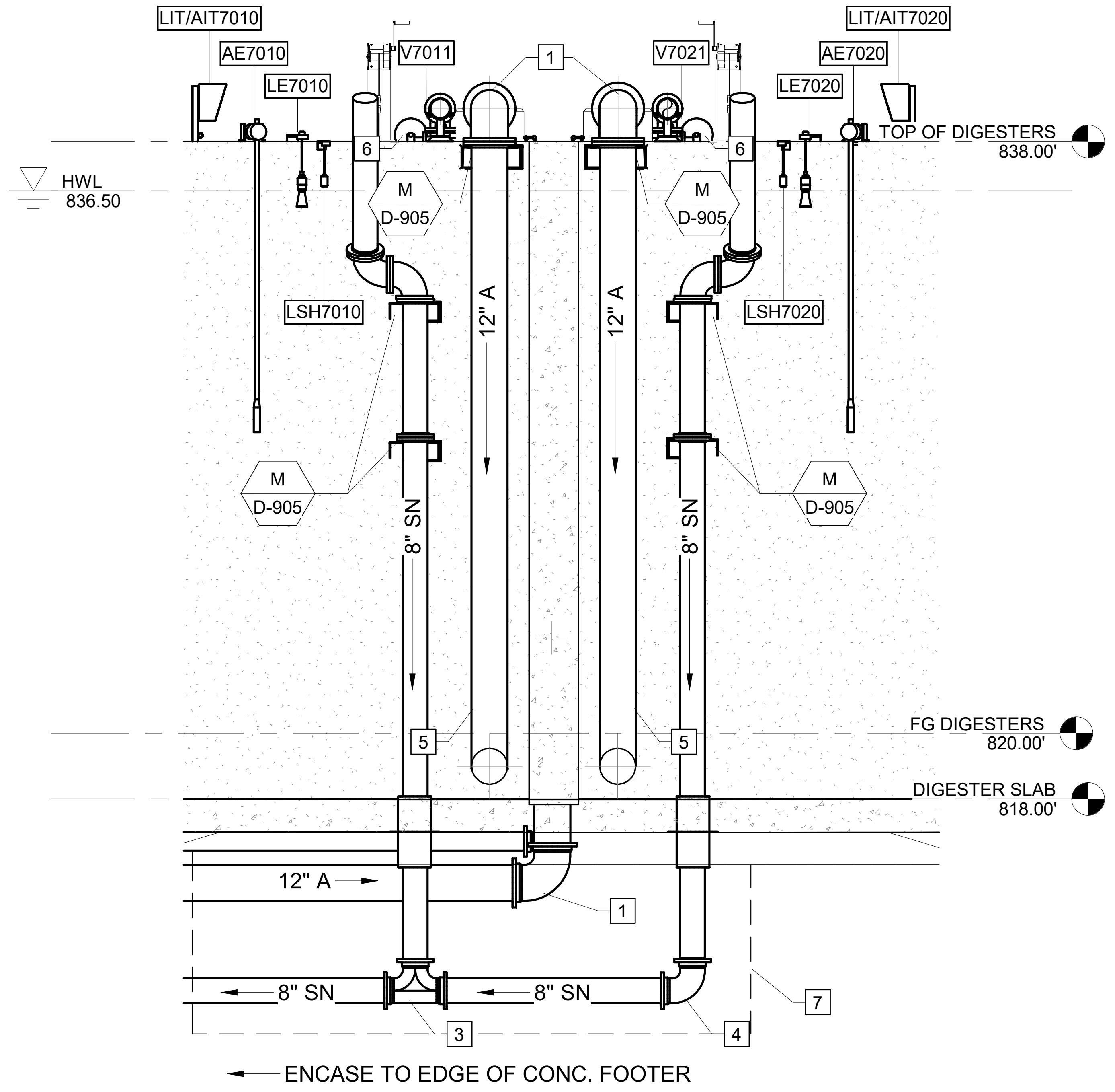
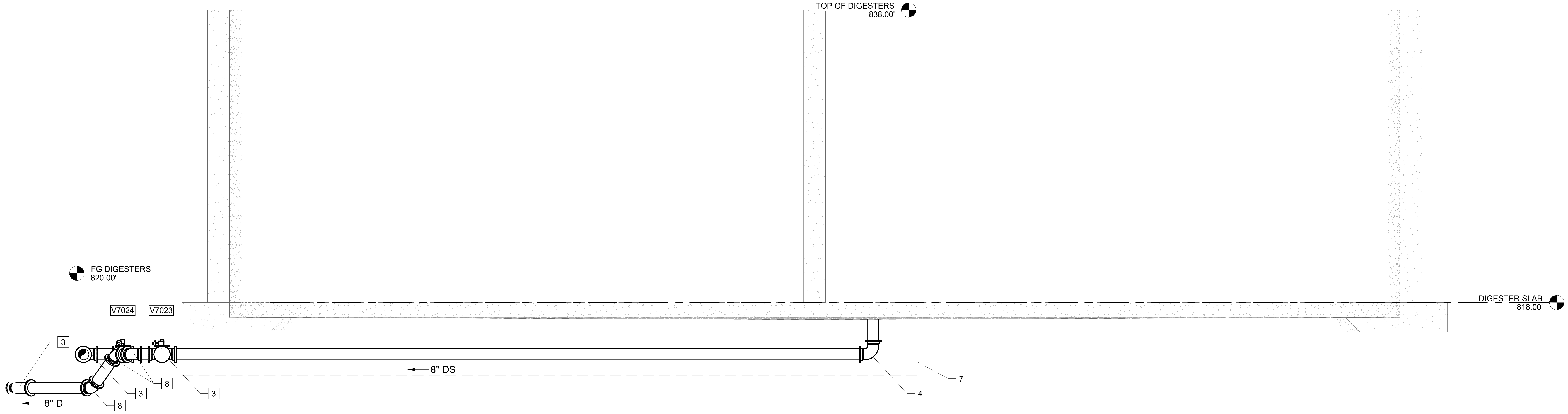


D SECTION

D-703 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. 12" 90° MJ BEND
2. 12" 90° FL BEND
3. 8" MJ TEE
4. 8" MJ 90° BEND
5. METAL TO PVC CONNECTION
6. HANDWHEEL ACTUATOR
7. CONCRETE ENCASEMENT



E SECTION

D-701 SCALE: 1/4" = 1'-0"

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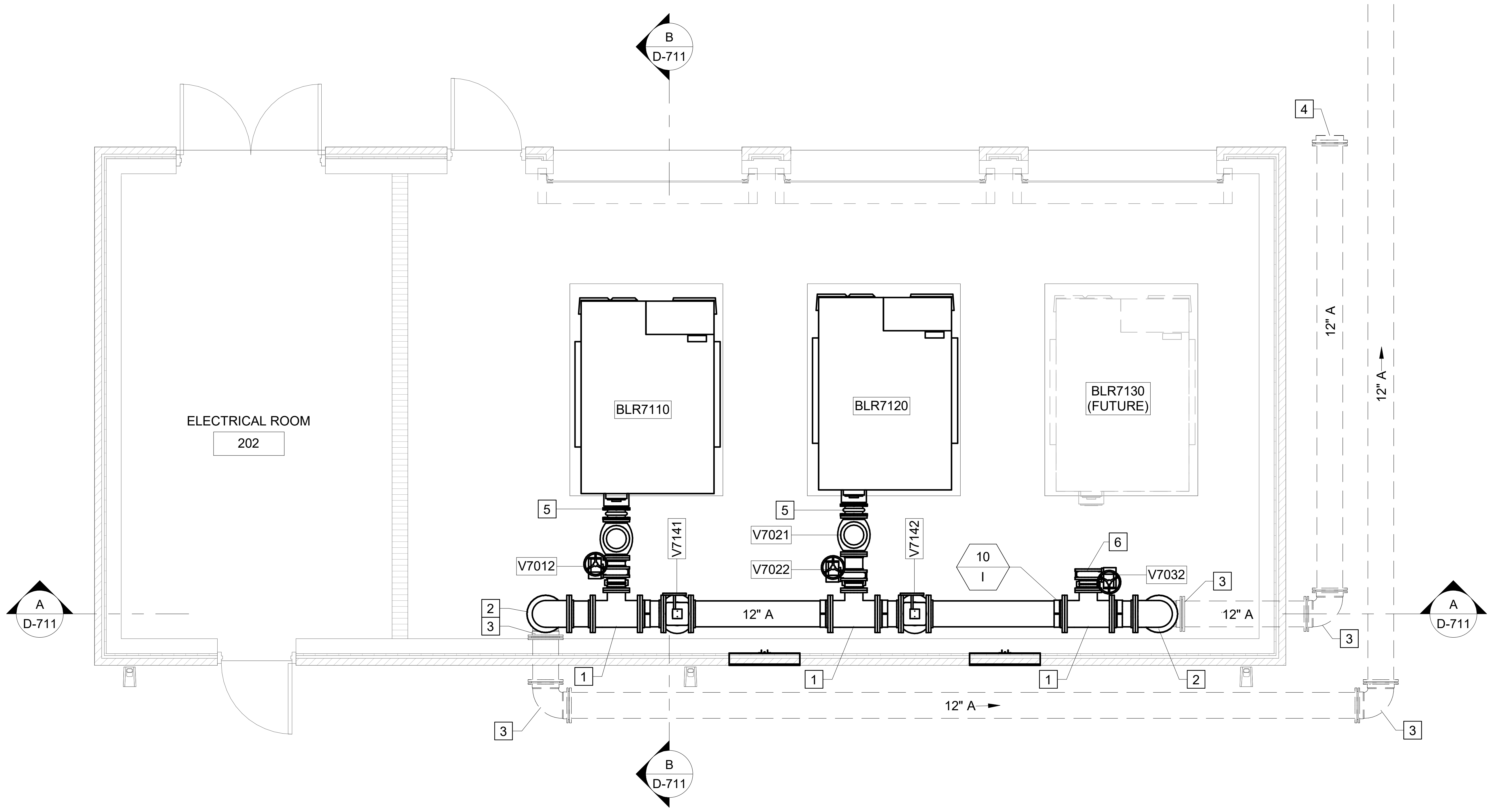
03.19.2025
GRAHAM S. SIZEMORE

AEROBIC DIGESTERS - SECTIONS

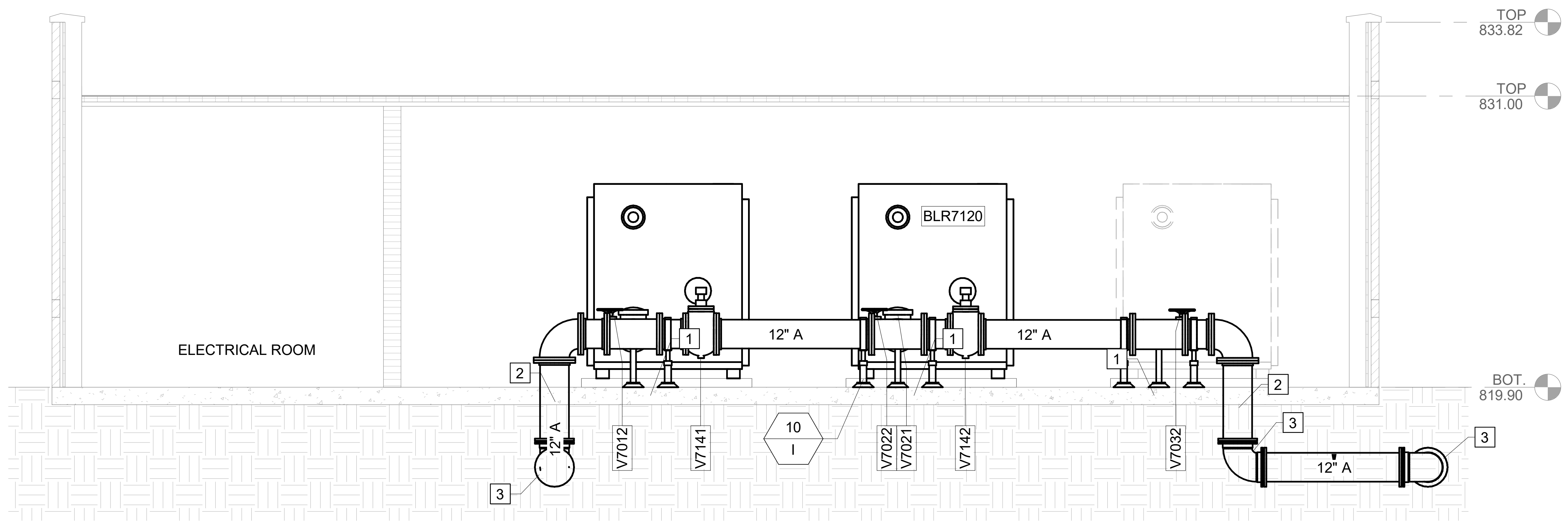
D-704

KEY NOTES: #

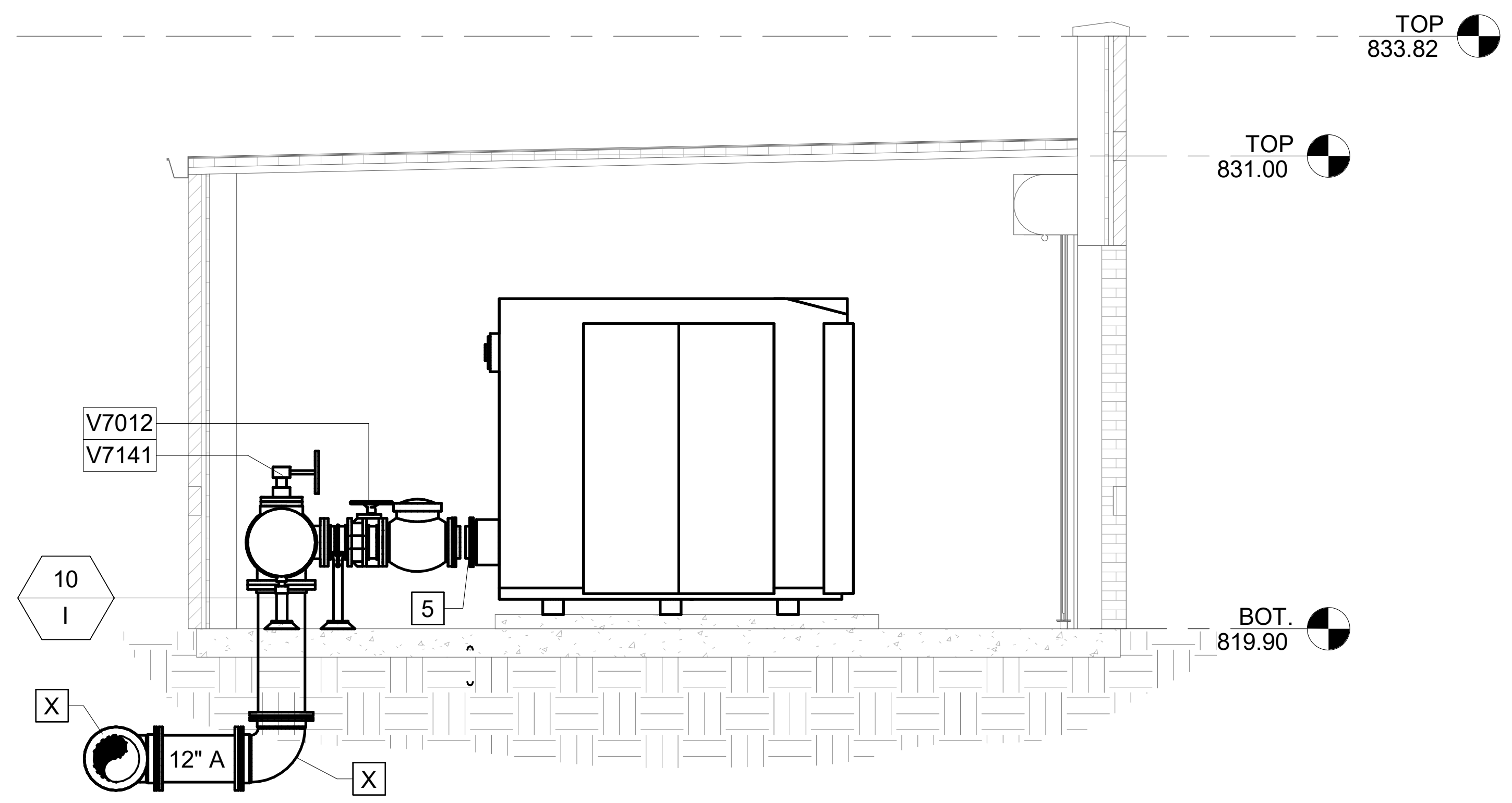
1. 12" X 8" FL TEE
2. 12" 90° FL BEND
3. 12" 90° MJ BEND
4. MJ PLUG
5. SINGLE ARCH EXPANSION JOINT
6. BLIND FLANGE



7B PLAN
D-711 SCALE: 1/4" = 1'-0"



A SECTION
D-711 SCALE: 1/4" = 1'-0"



B SECTION
D-711 SCALE: 1/4" = 1'-0"

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03.19.2025
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BLOWER BUILDING - PLAN

D-711

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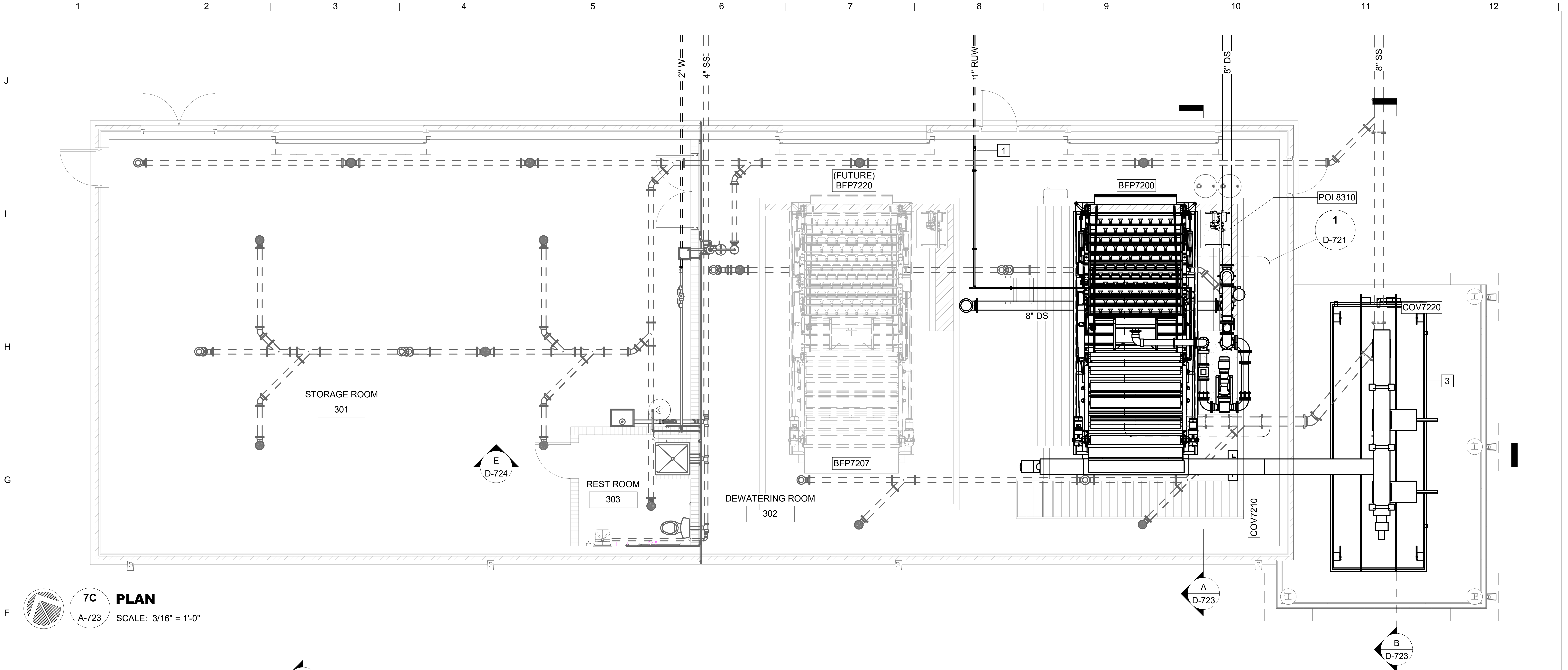
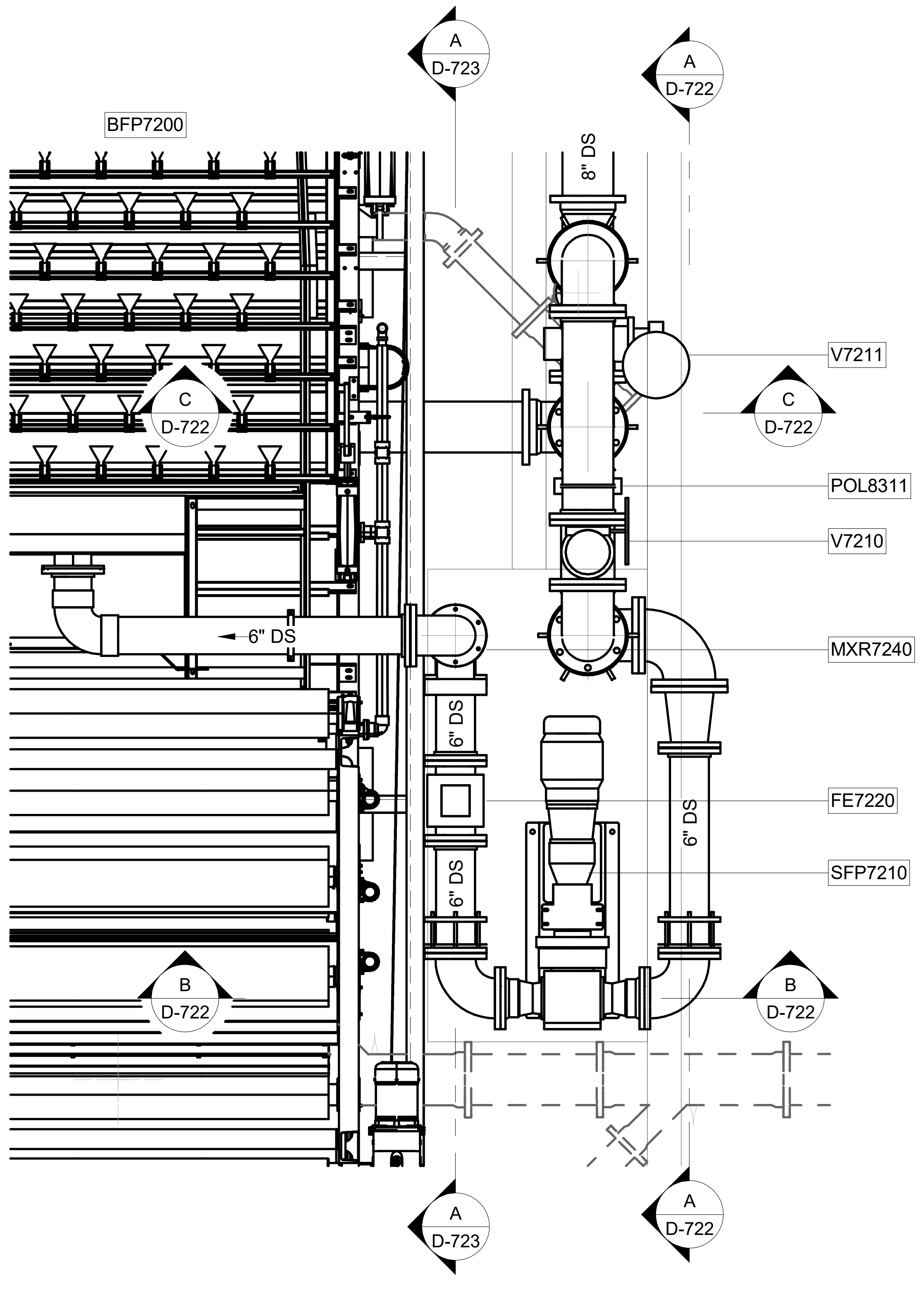
KEY NOTES: #

1. CONTRACTOR TO ROUTE 1" WATERLINE ALONG CEILING. CONNECT TO BELT/WASH BOOSTER PUMP
2. CONTRACTOR SHALL CONNECT POLYMER PIPING TO IN-LINE MIXER MXR7240.
3. 30 CY ROLL-OFF DUMPSTER PROVIDED BY OWNER/CONTRACT HAULER



7C PLAN
A-723
SCALE: 3/16" = 1'-0"



1 ENLARGED PLAN
D-721
SCALE: 1/2" = 1'-0"

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DEWATERING
BUILDING - PLAN

D-721

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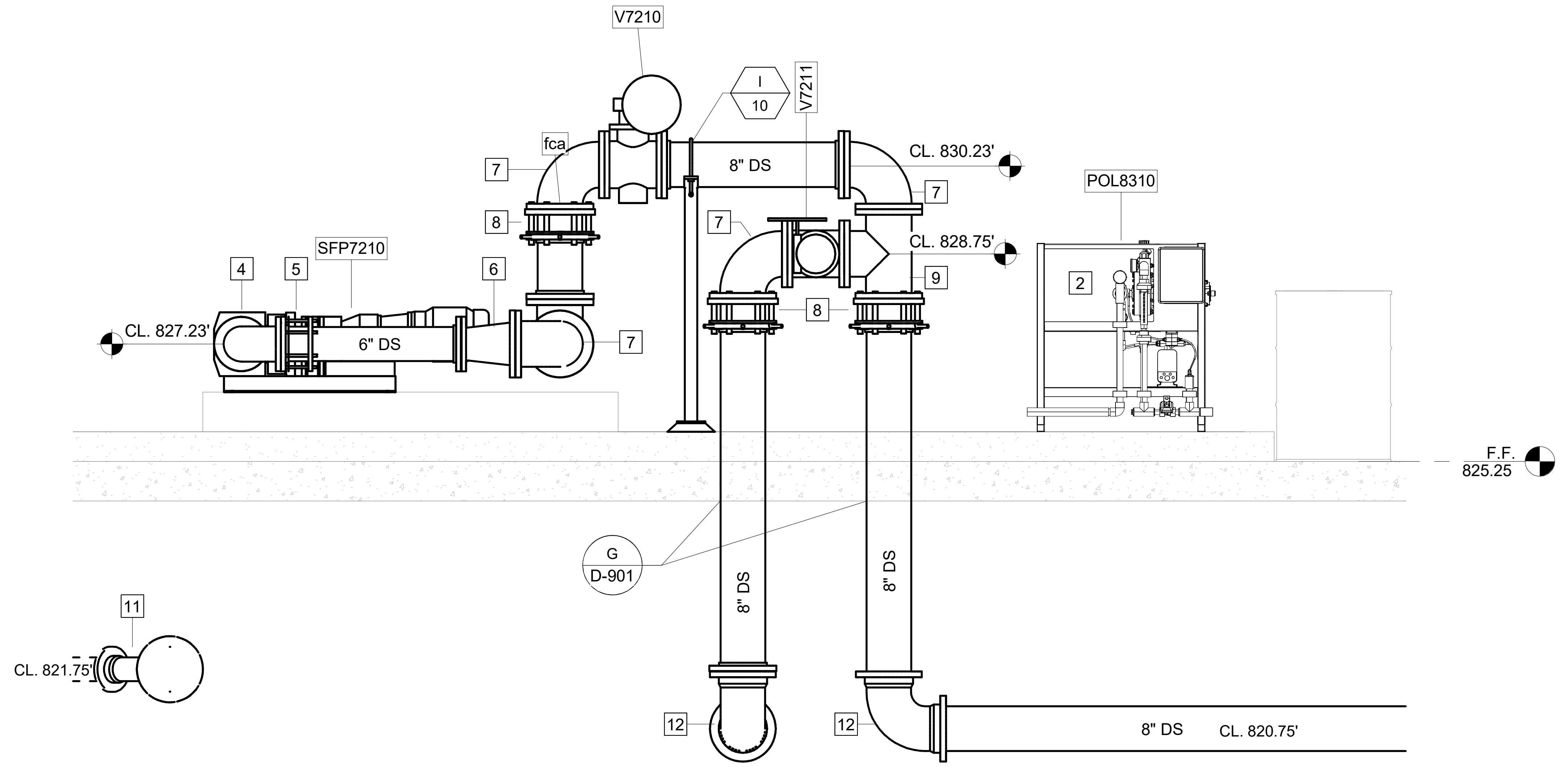
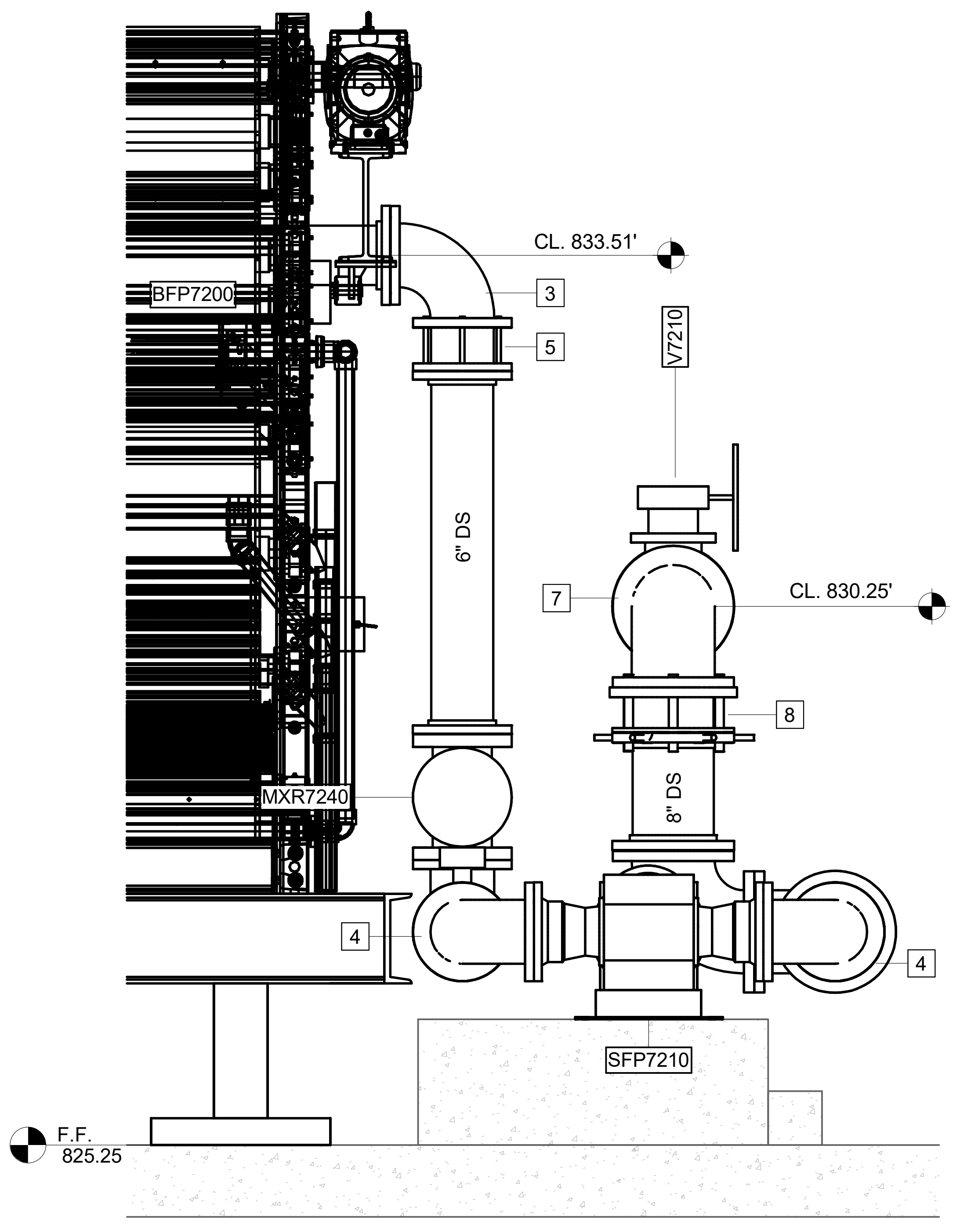
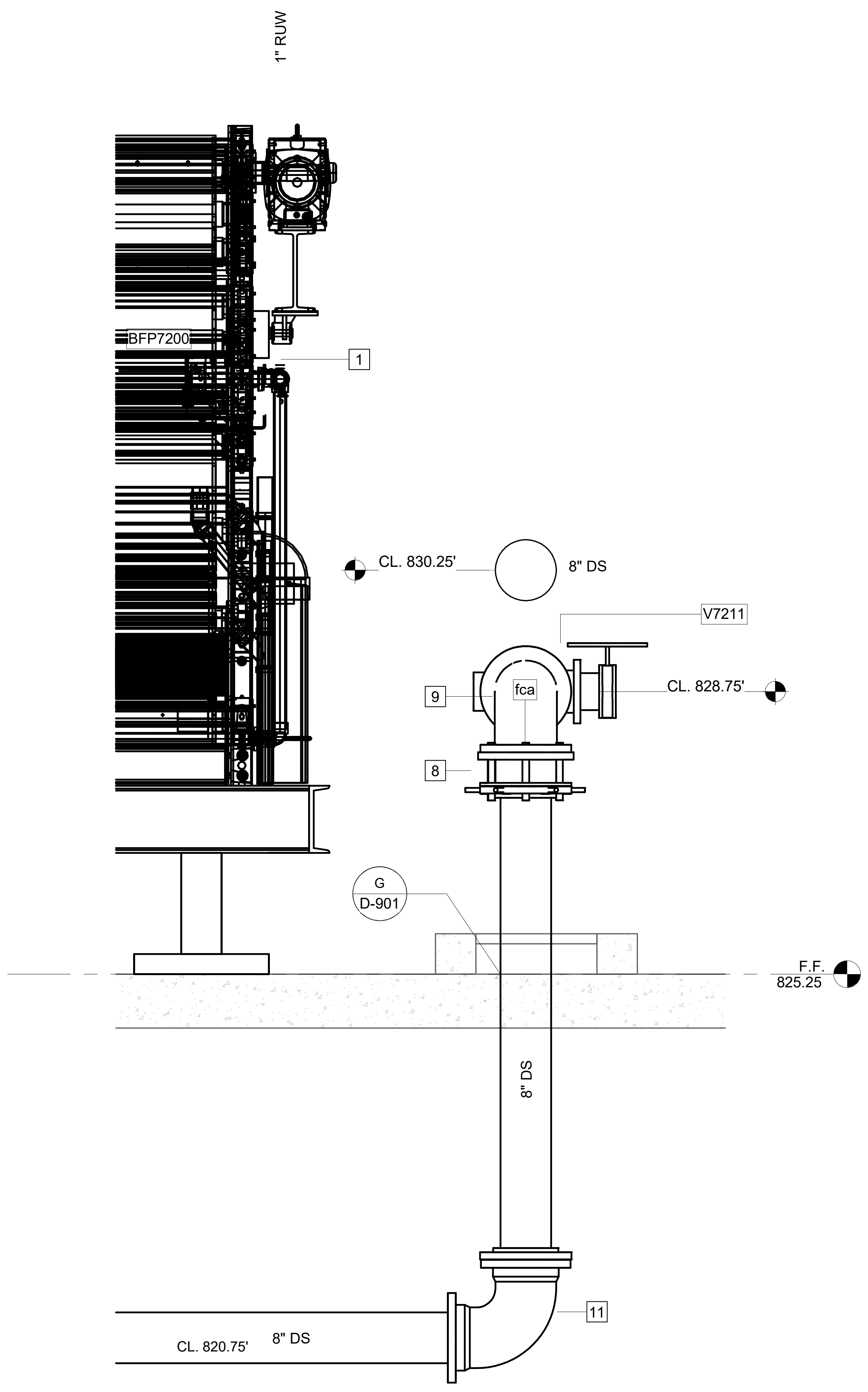


A D-721 **SECTION**
SCALE: 1/2" = 1'-0"



B D-721 **SECTION**
SCALE: 3/4" = 1'-0"



C D-721 **SECTION**
SCALE: 3/4" = 1'-0"

KEY NOTES: #

1. CONTRACTOR TO ROUTE 1" WATERLINE ALONG CEILING. CONNECT TO BELT/WASH BOOSTER PUMP
2. CONTRACTOR SHALL CONNECT POLYMER PIPING TO IN-LINE MIXER MXR7240.
3. 6" PVC 90° BEND
4. 6" FL 90° BEND
5. 6" FL COUPLING ADAPTER
6. 8" X 6" FL REDUCER
7. 8" FL 90° BEND
8. 8" FL COUPLING ADAPTER
9. 8" FL TEE
10. 8" X 4" MJ WYE
11. 8" MJ 90° BEND

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Designer:	GS
Drawn By:	HKD/CE

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

DEWATERING
BUILDING - SECTIONS

D-722

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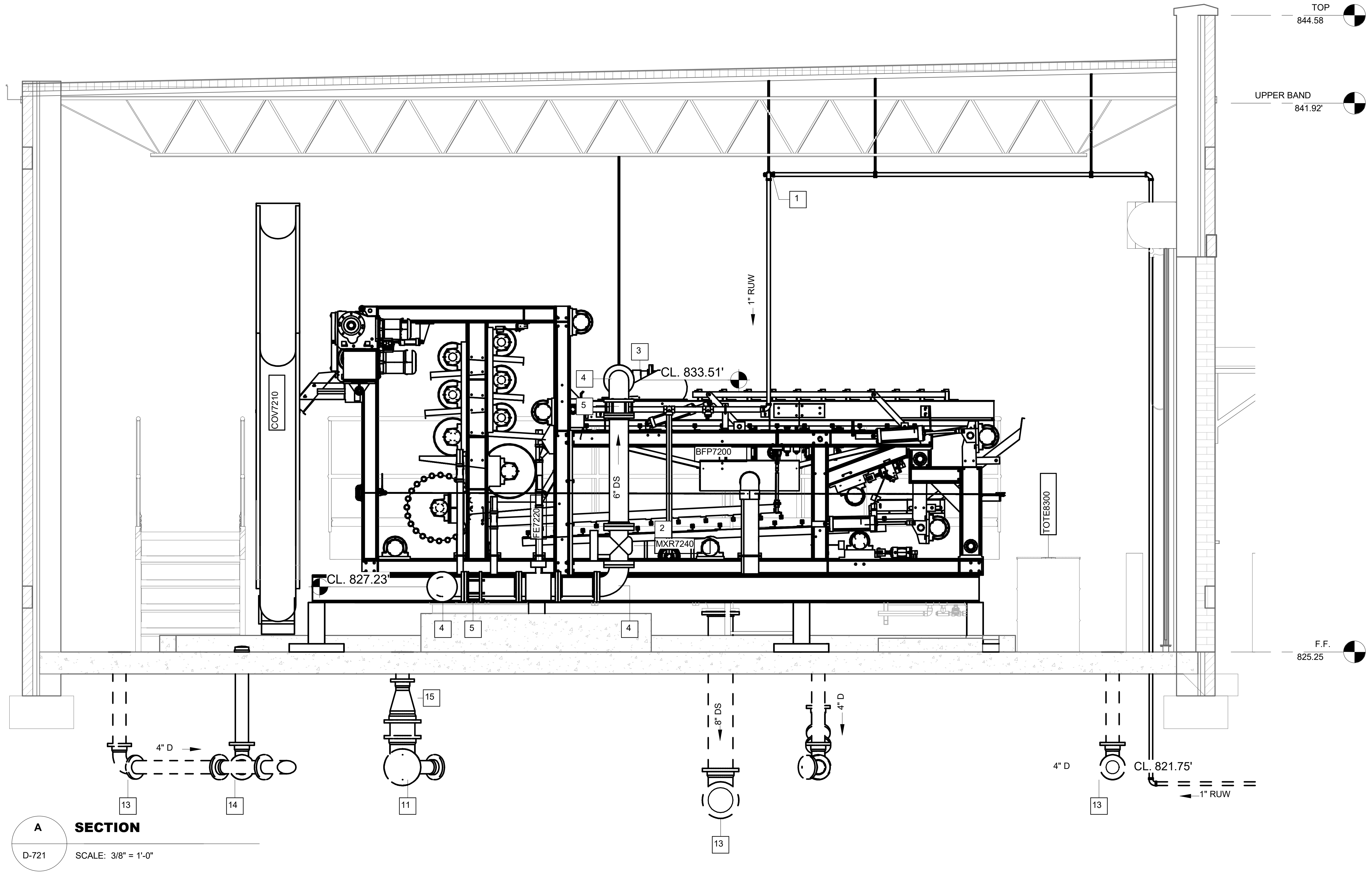
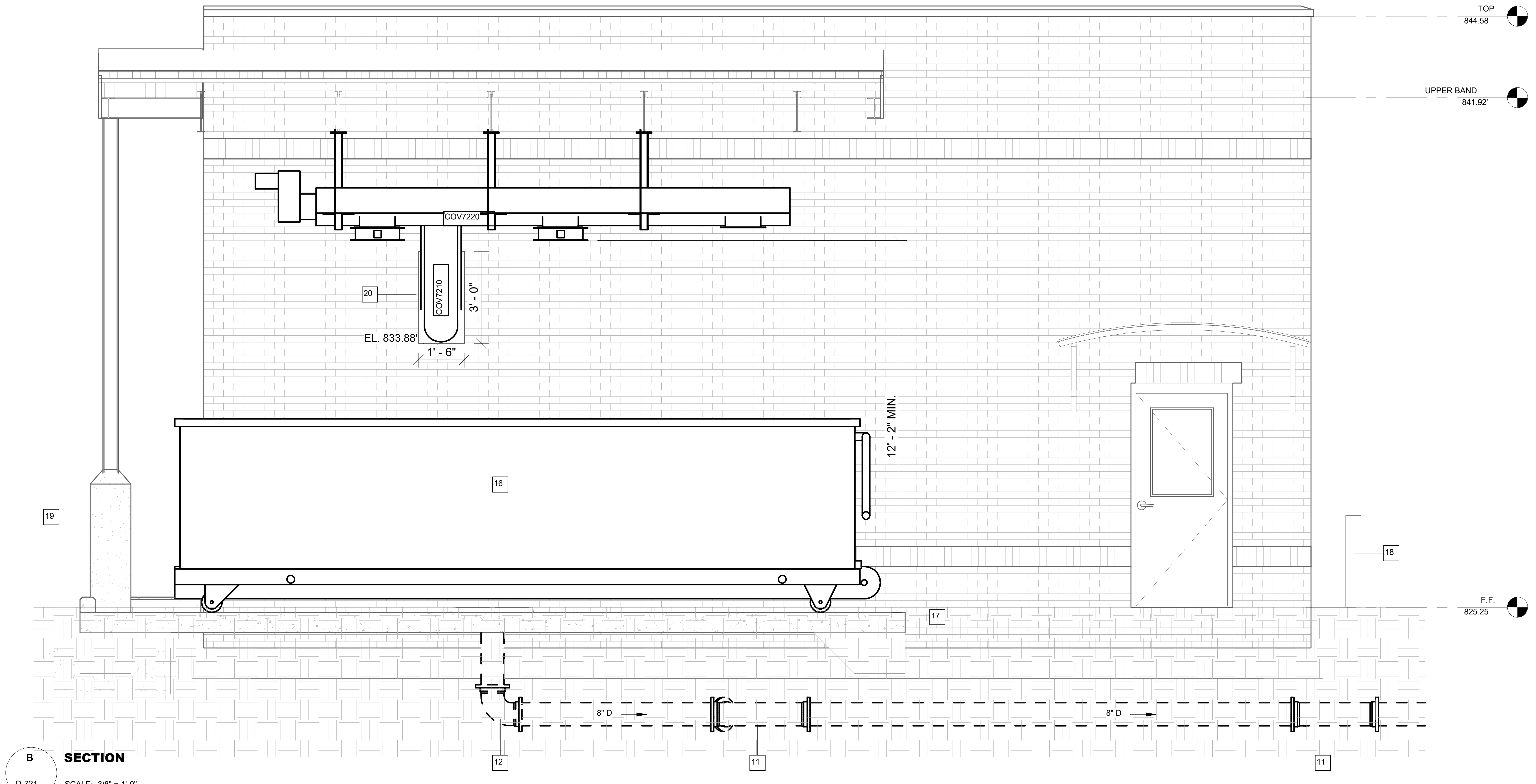


A D-721 **SECTION**

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



B D-721 **SECTION**

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

KEY NOTES: #

1. CONTRACTOR TO ROUTE 1" WATERLINE ALONG CEILING. CONNECT TO BELT/WASH BOOSTER PUMP
2. CONTRACTOR SHALL CONNECT POLYMER PIPING TO IN-LINE MIXER MXR7240.
3. 6" PVC 90° BEND
4. 6" FL 90° BEND
5. 6" FL COUPLING ADAPTER
6. 8" X 6" FL REDUCER
7. 8" FL 90° BEND
8. 8" FL COUPLING ADAPTER
9. 8" FL TEE
10. 8" SADDLE PIPE SUPPORT
11. 8" X 4" MJ WYE
12. 8" MJ 90° BEND
13. 4" MJ 90° BEND
14. 4" MJ WYE
15. 8" X 4" MJ REDUCER
16. DUMPSTER
17. 6" CONCRETE CURB W/ CHAMFER
18. 4" CONCRETE BOLLARD
19. 1'-6" ⌀ X 4'-6" H CONCRETE COLUMN PROTECTION. SLOPE TOP AND PAINT "SAFETY YELLOW"
20. 36" X 18" OPENING

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GOODWYN MILLS CAWOOD, LLC
No.PEF007898
Exp.06.30.2026

1" .5" 0" 1"

ISSUE	DATE
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60% Submittal	08.29.2024
90% Submittal	11.27.2024
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Conformed Set	
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Engineer:	GS
Designer:	GS
Drawn By:	HKD/CE

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**DEWATERING
BUILDING - SECTIONS**

D-723

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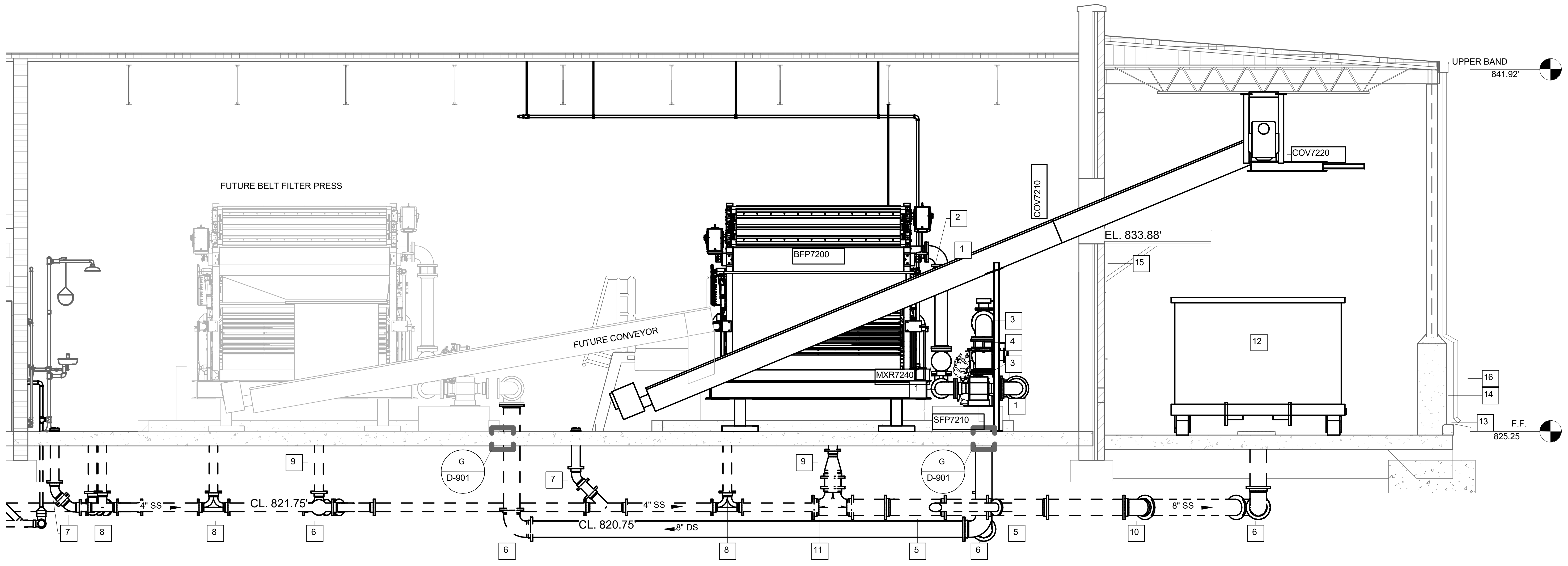

E
D-721

SECTION

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

KEY NOTES: #

1. 6" FL 90° BEND
2. 6" FL COUPLING ADAPTER
3. 8" FL 90° BEND
4. 8" FL COUPLING ADAPTER
5. 8" X 4" MJ WYE
6. 8" MJ 90° BEND
7. 4" MJ 45° BEND
8. 4" MJ WYE
9. 8" X 4" MJ REDUCER
10. 8" MJ 45° BEND
11. 8" MJ WYE
12. DUMPSTER
13. 6" CONCRETE CURB W/ CHAMFER
14. 1'-6" ⌀ X 4'-6" H CONCRETE COLUMN PROTECTION. SLOPE TOP AND PAINT "SAFETY YELLOW"
15. 36" X 18" OPENING
16. DOWNSPOUT

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No. PE051452
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DEWATERING BUILDING - SECTIONS

D-724

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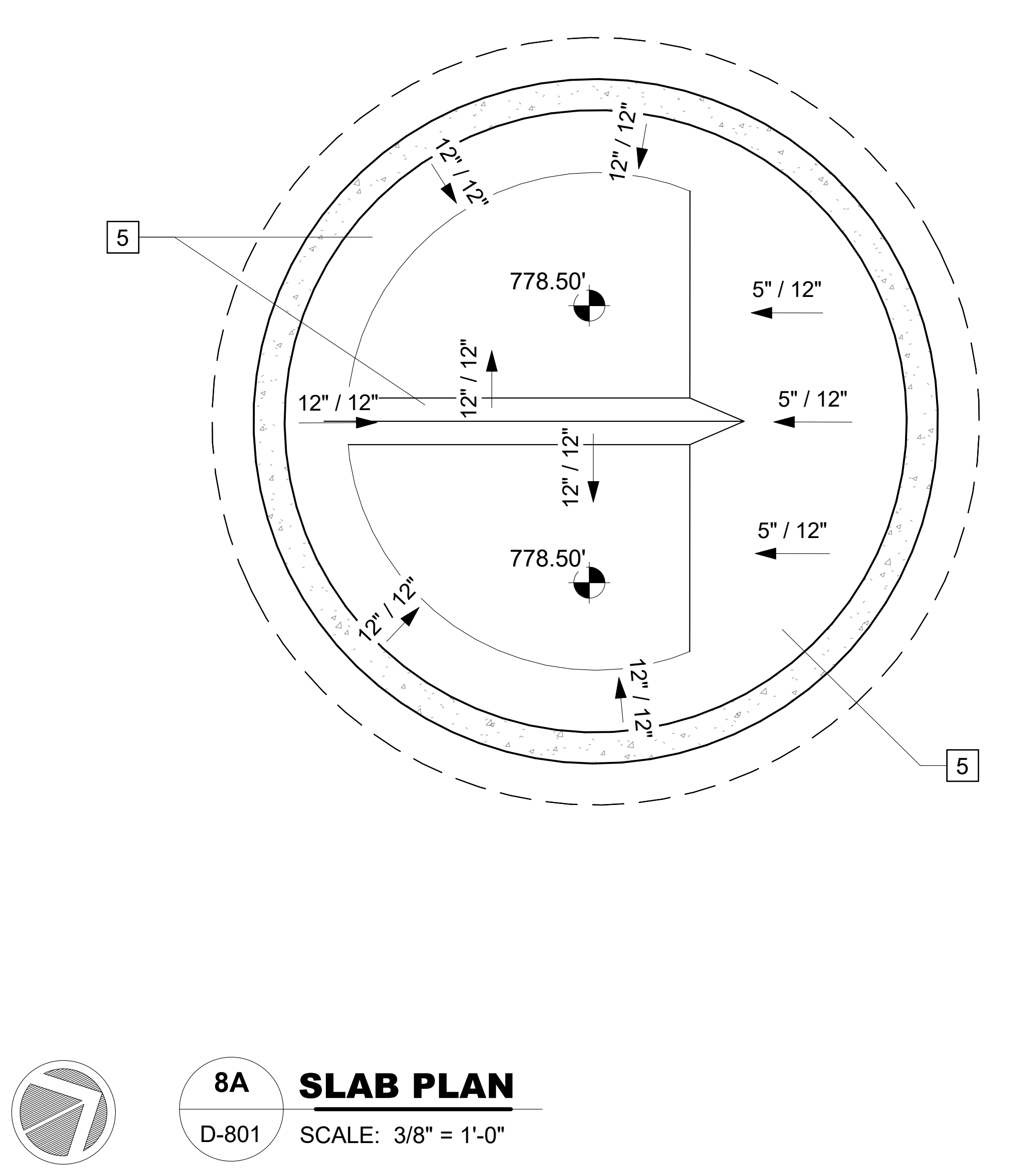
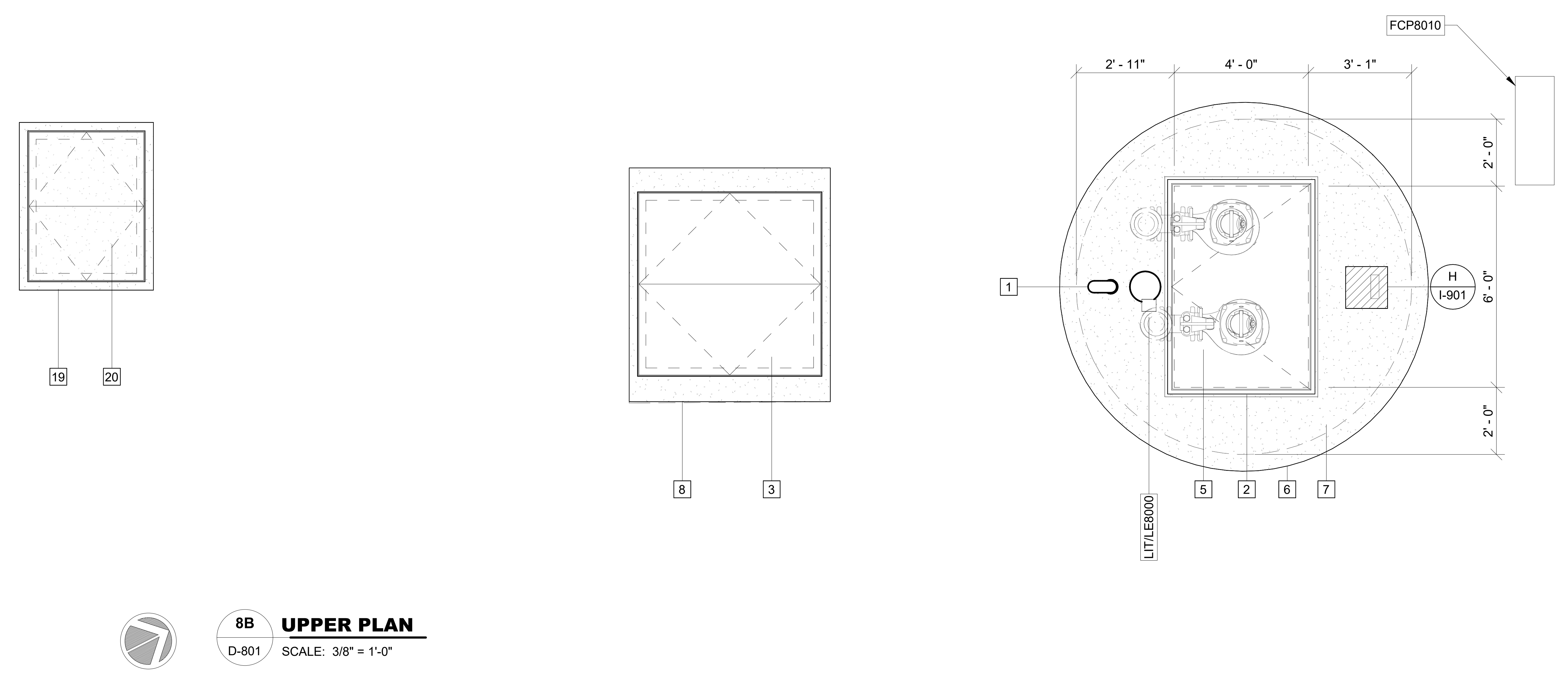
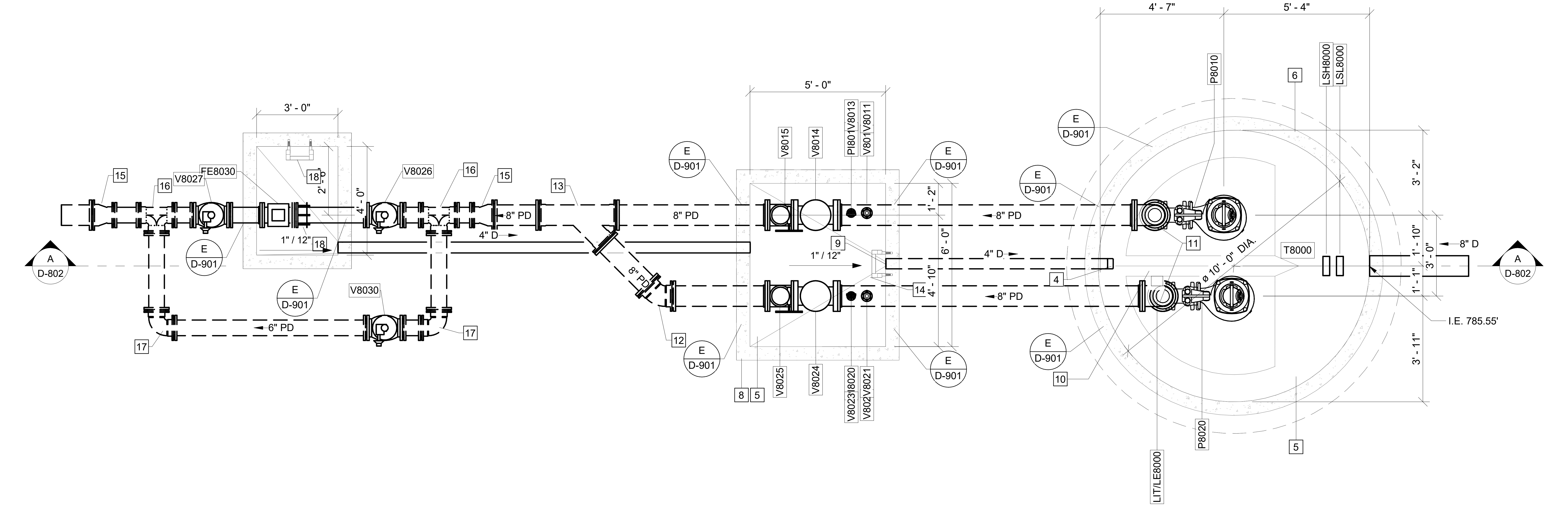


8A
D-801
SLAB PLAN
SCALE: 3/8" = 1'-0"



8B
D-801
UPPER PLAN
SCALE: 3/8" = 1'-0"



8C
D-801
LOWER PLAN
SCALE: 3/8" = 1'-0"

PUMP STATION NOTES:

1. PROPOSED CONCRETE SHALL CLEANLY TRANSITION FROM EXISTING SURROUNDING SURFACES PROVIDING POSITIVE DRAINAGE.
2. PROCESS EQUIPMENT DIMENSIONS, LOCATIONS, AND PIPING SYSTEM LAYOUTS SHOWN ON THE DRAWINGS ARE BASED ON EQUIPMENT SELECTED BY ENGINEER AND INFORMATION AVAILABLE TO ENGINEER. CONTRACTOR SHALL VERIFY FIELD CONDITIONS, ACTUAL EQUIPMENT DIMENSIONS AND INSTALLATION REQUIREMENTS BASED ON SHOP DRAWINGS, AND ALL NECESSARY DETAILS FOR COMPLETE INSTALLATION.
3. EQUIPMENT ARRANGEMENTS ARE BASED ON THE EQUIPMENT BASIS OF DESIGN IN THE SPECIFICATIONS. CHANGES TO THE LISTED BASIS OF DESIGN RESULTING IN DIFFERENCES OF THE SHOWN ARRANGEMENT SHALL BE THE CONTRACTORS RESPONSIBILITY. NO PAYMENT WILL BE ISSUED TO THE CONTRACTOR FOR MODIFICATIONS TO THE LAYING LENGTH, CONCRETE LAYOUT, ELECTRICAL OR MECHANICAL REQUIREMENTS, ETC.
4. VALVES, PIPES, MOTORS, ELECTRICAL PANELS, ETC. SHALL BE POSITIONED SO THAT THEY DO NOT INTERFERE WITH PEDESTRIAN TRAFFIC. WHEN APPLICABLE, MOTORS SHALL BE PROVIDE WITH VERTICAL HELICAL GEAR MOTOR SO THAT MOTOR EXTENDS VERTICALLY AND NOT HORIZONTALLY AND SHOULD BE PROVIDED BY THE MANUFACTURER.
5. ALL ELECTRICAL APPURTENANCES AND EQUIPMENT SHOWN ON THIS SHEET AND EXCLUDED FOR CLARITY SHALL BE COORDINATED WITH THE ELECTRICAL PLANS AND SPECIFICATIONS.
6. CONTROL PANELS PROVIDED BY THE MANUFACTURER SHALL BE SET WHERE SHOWN. PANELS REQUIRED FOR SAFETY TO BE SET ON THE ACCESS PLATFORM SHALL BE MINIMIZED AND WHEN INSTALLED, SHALL NOT RESULT IN OBSTRUCTIONS.
7. ALL STRUCTURAL ENTITIES SHOWN ON THIS SHEET AND EXCLUDED FOR CLARITY SHALL BE COORDINATED WITH THE STRUCTURAL PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL ENSURE THAT ACCESS PANELS FOR OPERATION AND MAINTENANCE OF EQUIPMENT ARE NOT OBSTRUCTED.
9. DRIP PROOF HATCH SHALL DRAIN TO THE WET WELL.
10. CONTRACTOR TO FIELD VERIFY ALL EXISTING DRAIN LINE INVERTS FOR POSITIVE DRAINAGE INTO PROPOSED PUMP STATION.
11. WETWELL PIPING SHALL BE DIP RESTRAINED JOINT PC250.

KEY NOTES:

1. 4" 304 SST GOOSENECK VENT W/ INSECT SCREEN
2. 48" X 72" ALUMINUM SINGLE LEAF ACCESS HATCH WITH SAFE HATCH IN DRAINABLE FRAME
3. 60" x 60" ALUMINUM DOUBLE LEAF ACCESS HATCH IN DRAINABLE FRAME.
4. 4" DUCKBILL CHECK VALVE
5. GROUT FILL
6. 10'-0" ⌀ PRECAST CONCRETE WETWELL
7. 12" TOP SLAB
8. PRECAST CONCRETE VALVE VAULT
9. 4" ⌀ VALVE VAULT DRAIN
10. 6" SCH 40 PVC STILLING WELL
11. 8" FL 90° BEND
12. 8" MJ 45° BEND
13. 8" MJ WYE
14. ACCESS STEPS
15. 8" x 6" MJ REDUCER/INCREASER
16. 6" x 6" MJ TEE
17. 6" 90° MJ BEND
18. 6" FLANGED COUPLING ADAPTER (RESTRAINED)
19. PRECAST METER VAULT
20. 36" x 48" ALUMINUM DOUBLE LEAF ACCESS HATCH IN DRAINABLE FRAME

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CATL230033

No. PE051452
03.19.2025
GRAHAM S. SIZEMORE

YARD DRAIN PUMP STATION - PLANS

D-801

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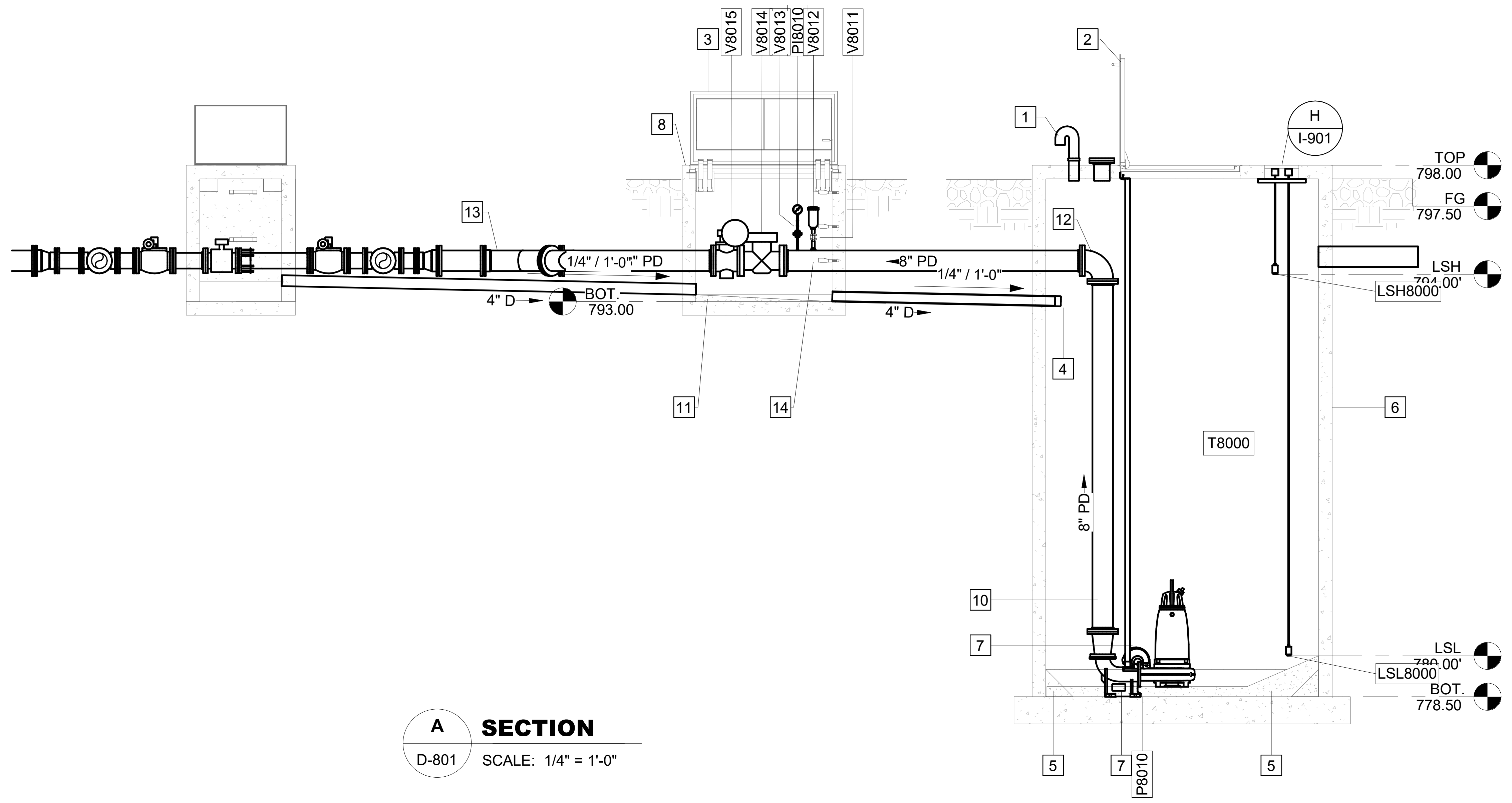
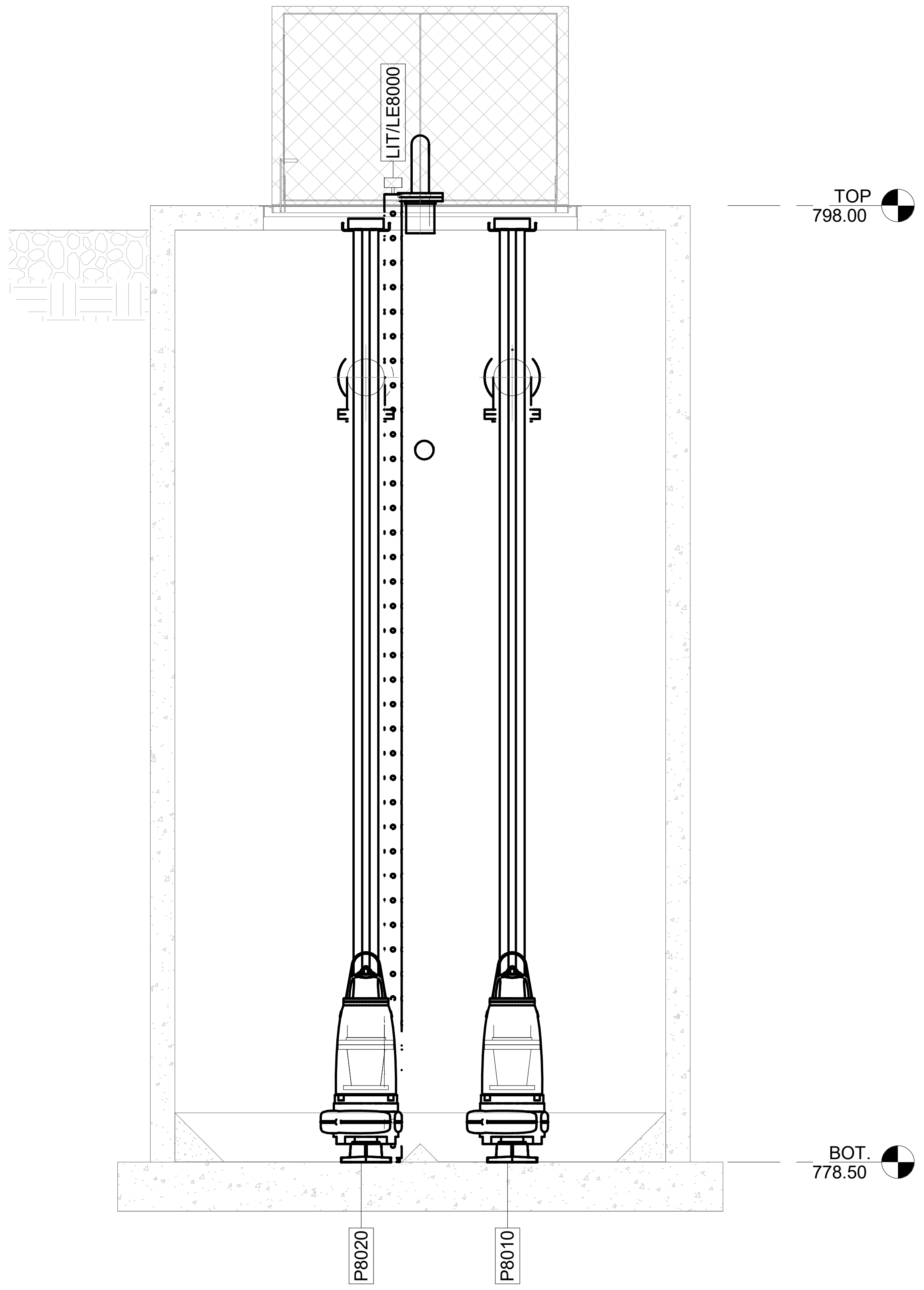


A
D-801
SECTION
SCALE: 1/4" = 1'-0"



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

PUMP STATION NOTES:

1. PROPOSED CONCRETE SHALL CLEANLY TRANSITION FROM EXISTING SURROUNDING SURFACES PROVIDING POSITIVE DRAINAGE.
2. PROCESS EQUIPMENT DIMENSIONS, LOCATIONS, AND PIPING SYSTEM LAYOUTS SHOWN ON THE DRAWINGS ARE BASED ON EQUIPMENT SELECTED BY ENGINEER AND INFORMATION AVAILABLE TO ENGINEER. CONTRACTOR SHALL VERIFY FIELD CONDITIONS, ACTUAL EQUIPMENT DIMENSIONS AND INSTALLATION REQUIREMENTS BASED ON SHOP DRAWINGS, AND ALL NECESSARY DETAILS FOR COMPLETE INSTALLATION.
3. EQUIPMENT ARRANGEMENTS ARE BASED ON THE EQUIPMENT BASIS OF DESIGN IN THE SPECIFICATIONS. CHANGES TO THE LISTED BASIS OF DESIGN RESULTING IN DIFFERENCES OF THE SHOWN ARRANGEMENT SHALL BE THE CONTRACTORS RESPONSIBILITY. NO PAYMENT WILL BE ISSUED TO THE CONTRACTOR FOR MODIFICATIONS TO THE LAYING LENGTH, CONCRETE LAYOUT, ELECTRICAL OR MECHANICAL REQUIREMENTS, ETC.
4. VALVES, PIPES, MOTORS, ELECTRICAL PANELS, ETC. SHALL BE POSITIONED SO THAT THEY DO NOT INTERFERE WITH PEDESTRIAN TRAFFIC. WHEN APPLICABLE, MOTORS SHALL BE PROVIDE WITH VERTICAL HELICAL GEAR MOTOR SO THAT MOTOR EXTENDS VERTICALLY AND NOT HORIZONTALLY AND SHOULD BE PROVIDED BY THE MANUFACTURER.
5. ALL ELECTRICAL APPURTENANCES AND EQUIPMENT SHOWN ON THIS SHEET AND EXCLUDED FOR CLARITY SHALL BE COORDINATED WITH THE ELECTRICAL PLANS AND SPECIFICATIONS.
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7. ALL STRUCTURAL ENTITIES SHOWN ON THIS SHEET AND EXCLUDED FOR CLARITY SHALL BE COORDINATED WITH THE STRUCTURAL PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL ENSURE THAT ACCESS PANELS FOR OPERATION AND MAINTENANCE OF EQUIPMENT ARE NOT OBSTRUCTED.
9. DRIP PROOF HATCH SHALL DRAIN TO THE WET WELL.
10. CONTRACTOR TO FIELD VERIFY ALL EXISTING DRAIN LINE INVERTS FOR POSITIVE DRAINAGE INTO PROPOSED PUMP STATION.
11. WETWELL PIPING SHALL BE DIP RESTRAINED JOINT PC250.

KEY NOTES: #

1. 4" 304 SST GOOSENECK VENT W/ INSECT SCREEN
2. 48" X 72" ALUMINUM SINGLE LEAF ACCESS HATCH WITH SAFE HATCH IN DRAINABLE FRAME.
3. 60" x 60" ALUMINUM DOUBLE LEAF ACCESS HATCH WITH SAFE HATCH IN DRAINABLE FRAME.
4. 2" DUCKBILL CHECK VALVE
5. GROUT FILL
6. 10'-0" ⌀ PRECAST CONCRETE WETWELL
7. PUMP BASE AND DISCONNECT
8. 9' X 5'-6" PRECAST CONCRETE VALVE VAULT
9. 2" ⌀ VALVE VAULT DRAIN
10. 6" SCH 40 PVC STILLING WELL
11. GROUT VALVE VAULT FLOOR TO DRAIN TO 4" DRAIN
12. 8" FL 90° BEND
13. 8" MJ WYE
14. ACCESS STEPS

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ROVE CREEK WPCP
OMMERCE, GA

ATL230033

No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

YARD DRAIN PUMP STATION - SECTIONS

D-802

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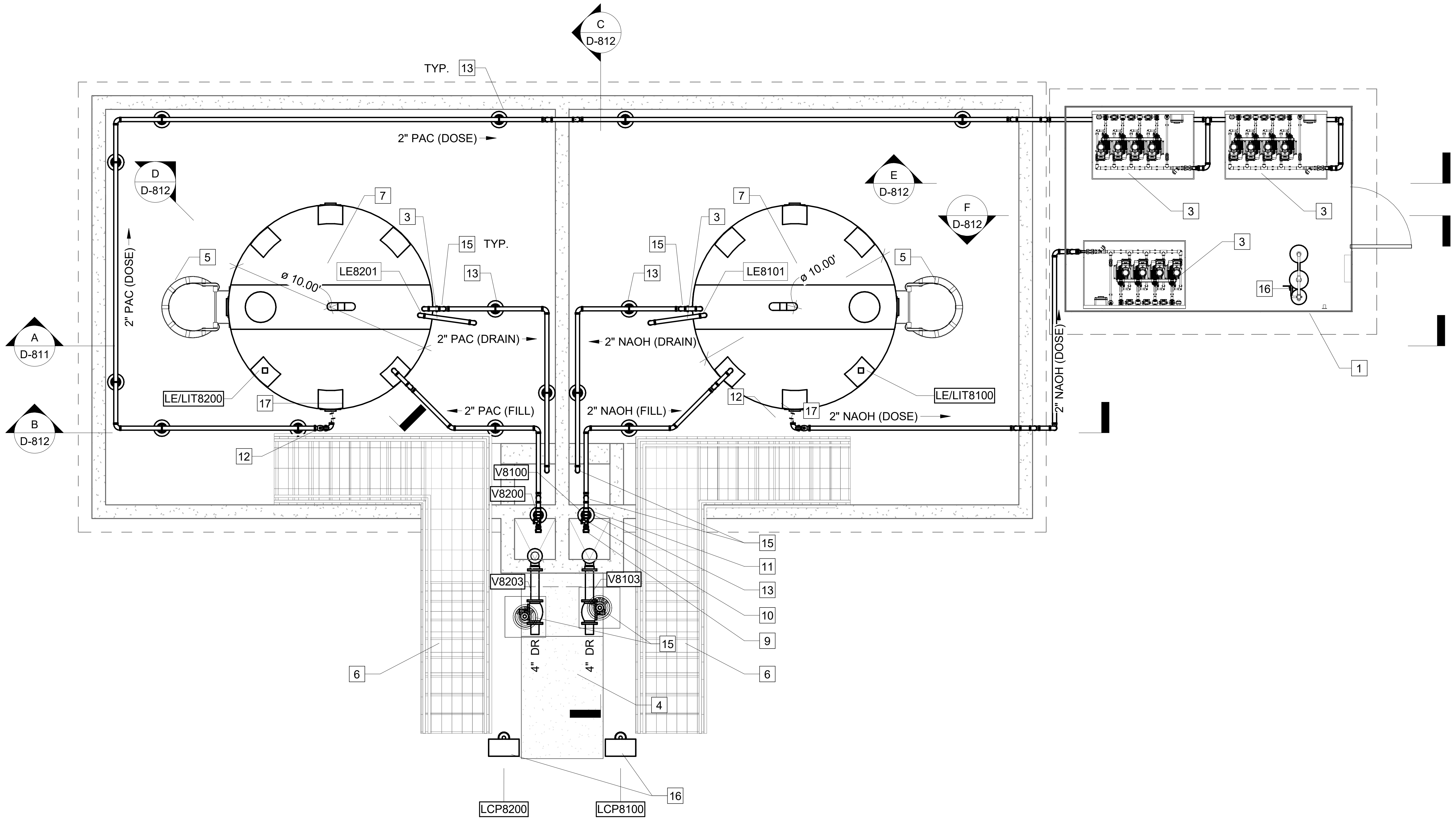
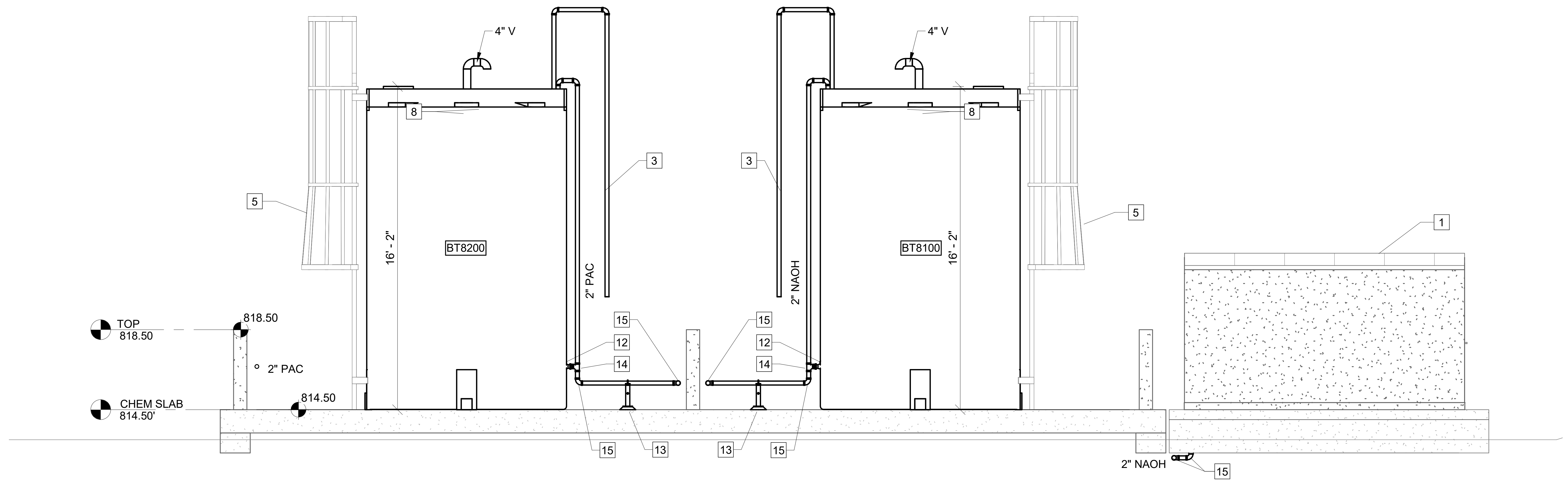


8D **PLAN**
D-811 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. PRE-MANUFACTURED FIBERGLASS BUILDING
2. QUADPLEX CHEMICAL PUMP SKID
3. RAISE AND ORIENT SUCH THAT LEVEL INDICATION IS VISIBLE FROM ROADWAY FOR BULK CHEMICAL TRUCK FILLING
4. 4' SIDEWALK TO ROAD
5. LADDER W/ WALL CAGE
6. ALUMINUM STAIRS
7. 4" 90° BEND
8. 2" QUICK CONNECT
9. 2" COUPLING
10. 2" TEE
11. 2" 90° BEND
12. 2" 45° BEND
13. 2" FLEXIBLE HOSE
14. 4" 90° MJ BEND
15. VALVE BOX
16. EYEWASH STATION



A **SECTION**
D-811 SCALE: 1/4" = 1'-0"

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STATE OF GEORGIA CERTIFICATE OF AUTHORIZATION
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OMMERCE, GA

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CHEMICAL TANK FARM - PLAN AND SECTION

D-811

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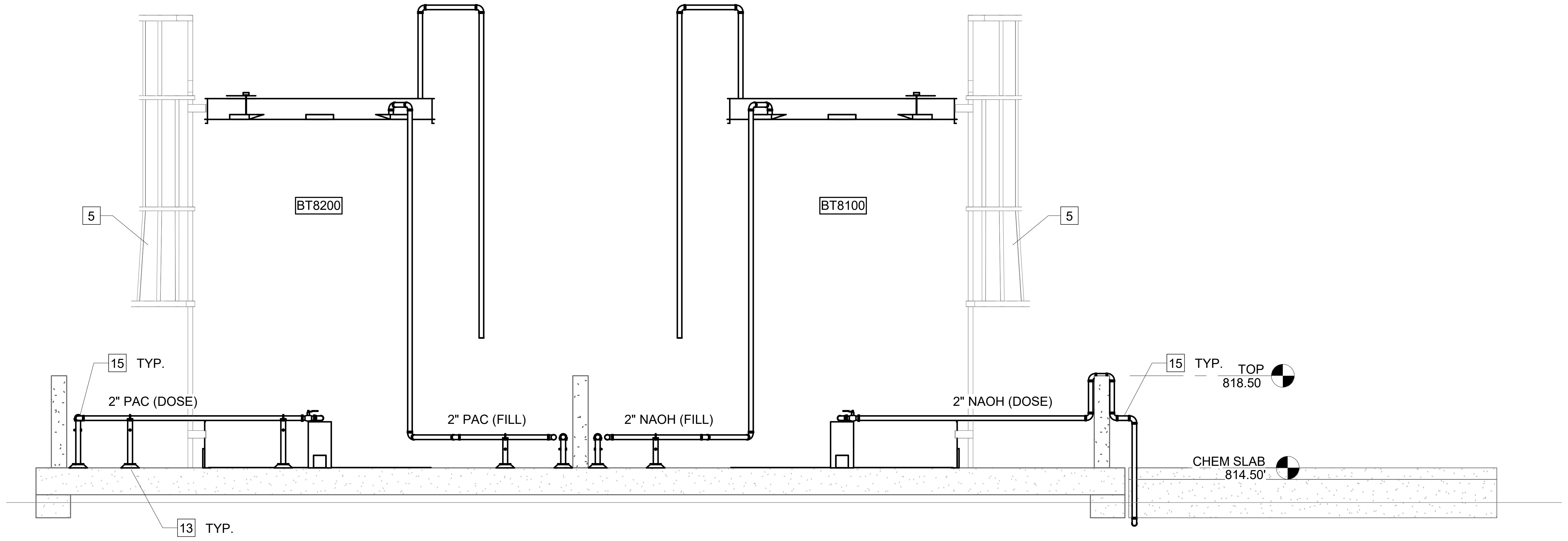
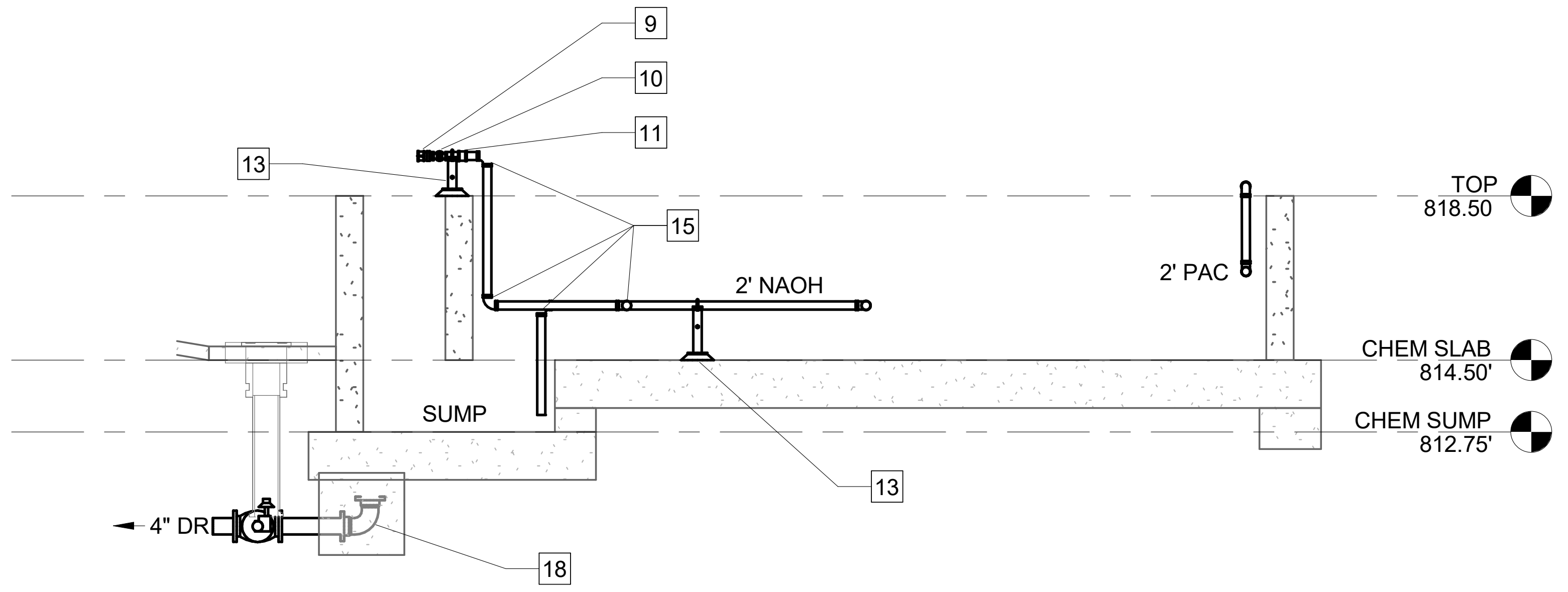
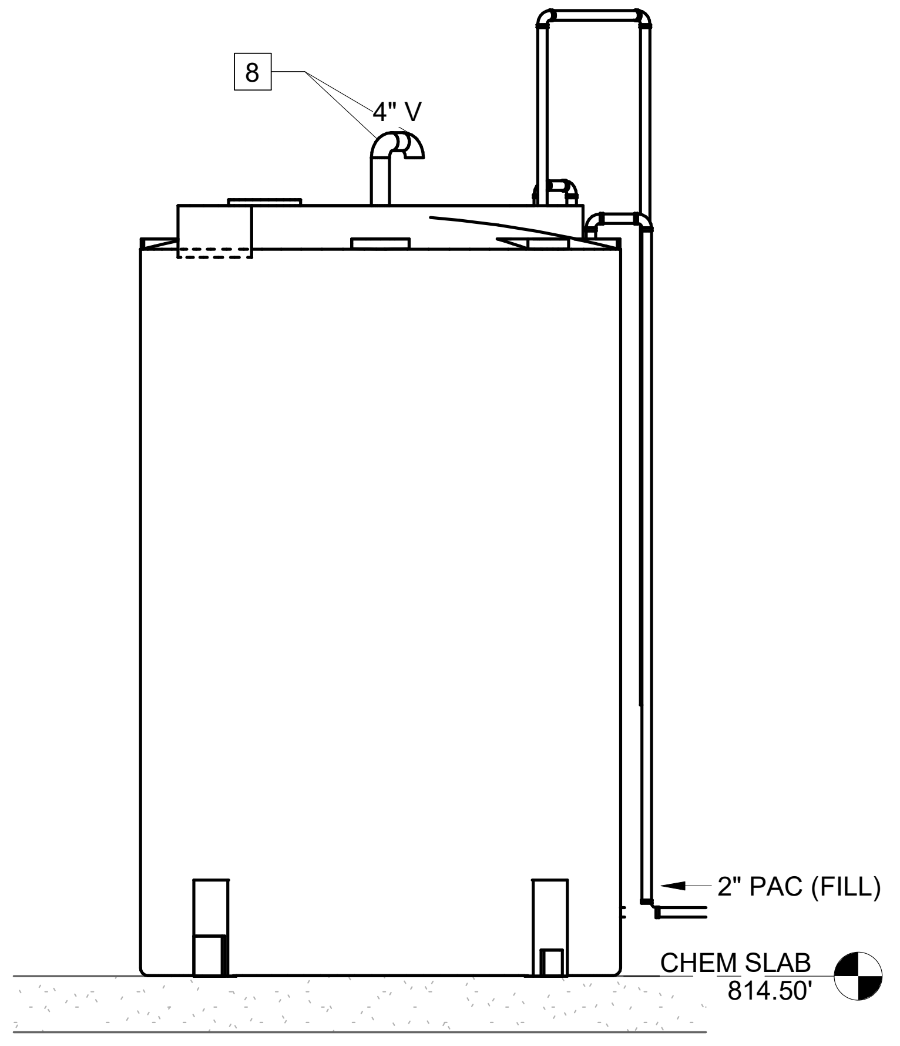


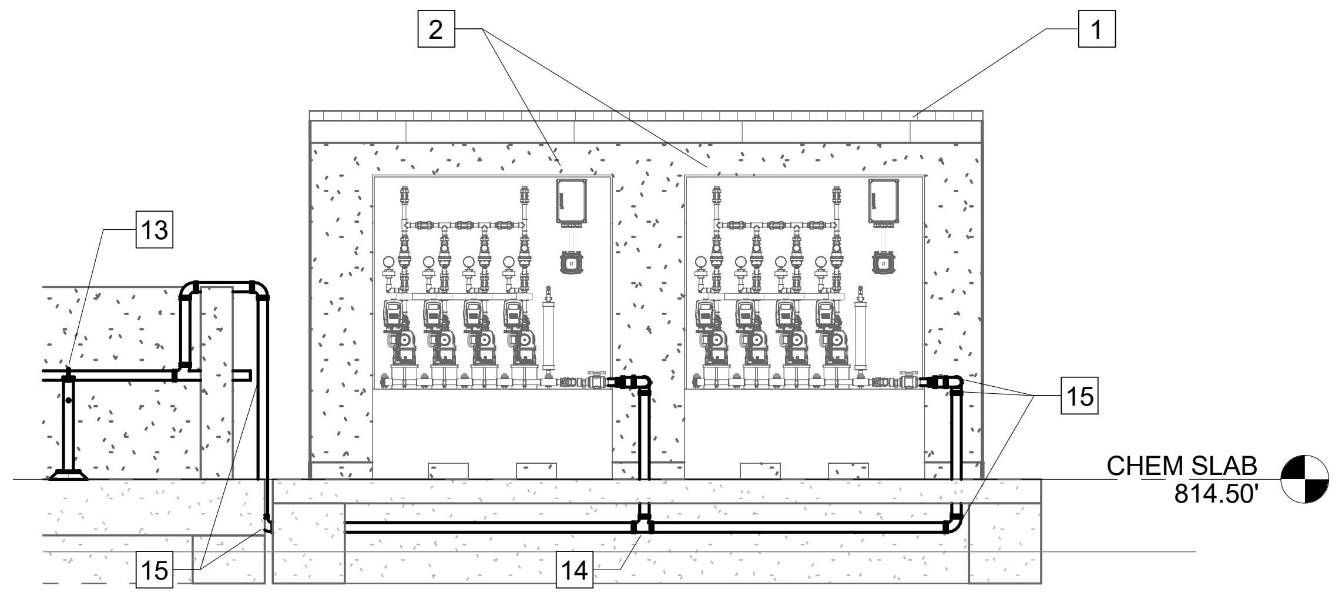
B SECTION
D-811 SCALE: 1/4" = 1'-0"



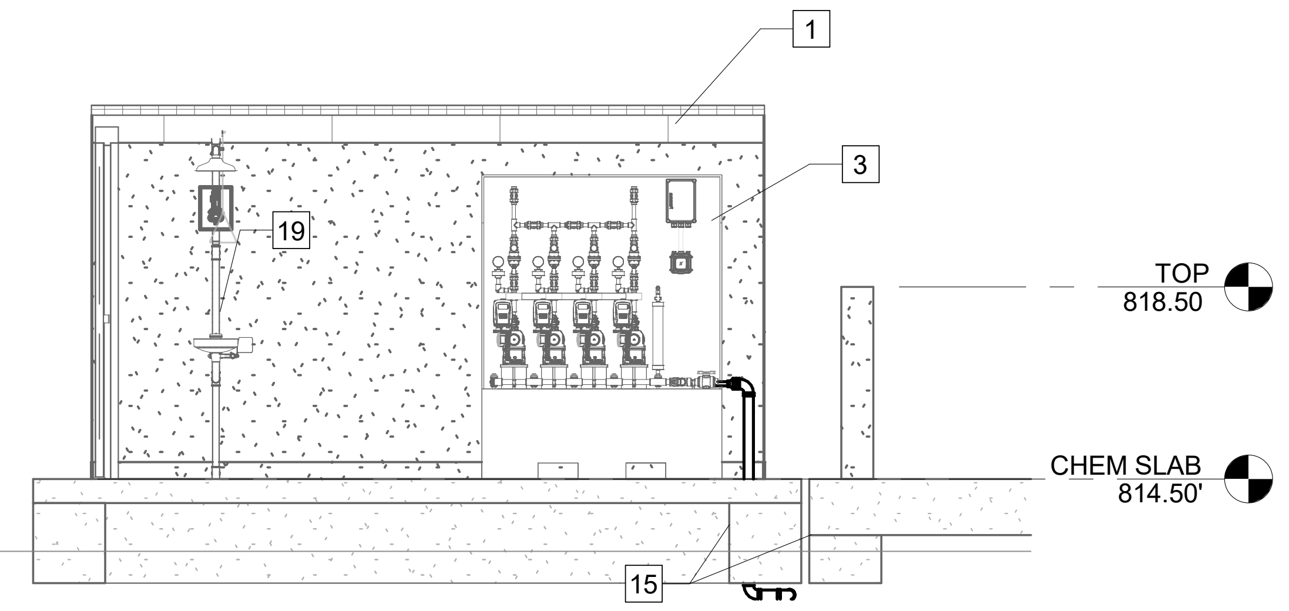
C SECTION
D-811 SCALE: 1/4" = 1'-0"



D SECTION
D-811 SCALE: 1/4" = 1'-0"



E SECTION
D-811 SCALE: 1/4" = 1'-0"



F SECTION
D-811 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. PRE-MANUFACTURED FIBERGLASS BUILDING
2. QUADPLEX CHEMICAL PUMP SKID
3. DUPLEX CHEMICAL PUMP SKID
4. MULTI-INSTRUMENT MONITOR
5. LADDER W/ WALL CAGE
6. ALUMINUM STAIRS
7. ULTRASONIC LEVEL
8. 4" - 90° BEND
9. 2" QUICK CONNECT
10. 2" CHECK VALVE
11. 2" COUPLING
12. 2" BALL VALVE
13. 2" PIPE SUPPORT
14. 2" TEE
15. 2" - 90° BEND
16. 2" - 45° BEND
17. 2" FLEXIBLE HOSE
18. 4" - 90° MJ BEND
19. EYEWASH STATION

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CHEMICAL TANK FARM - SECTIONS

D-812

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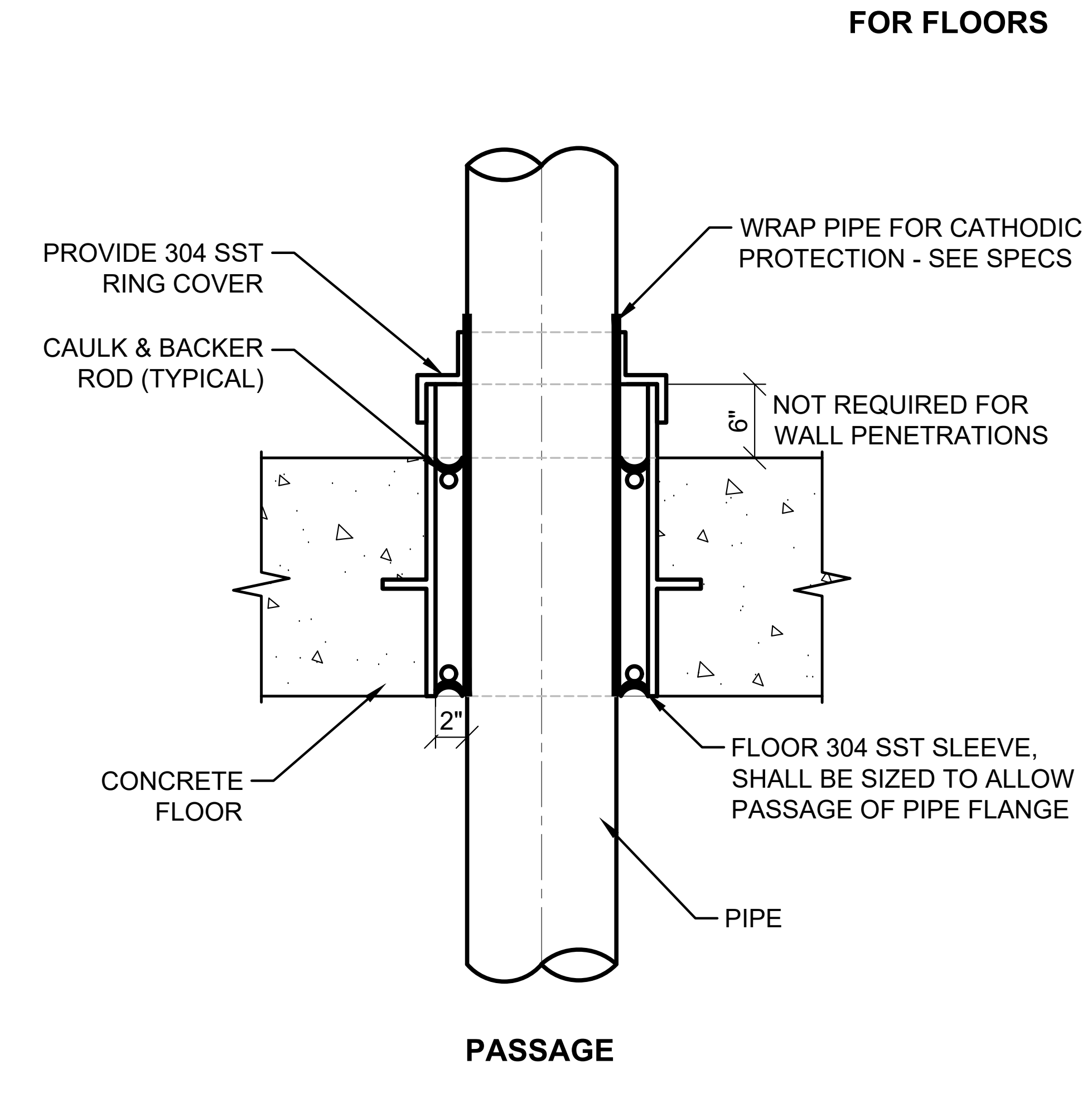
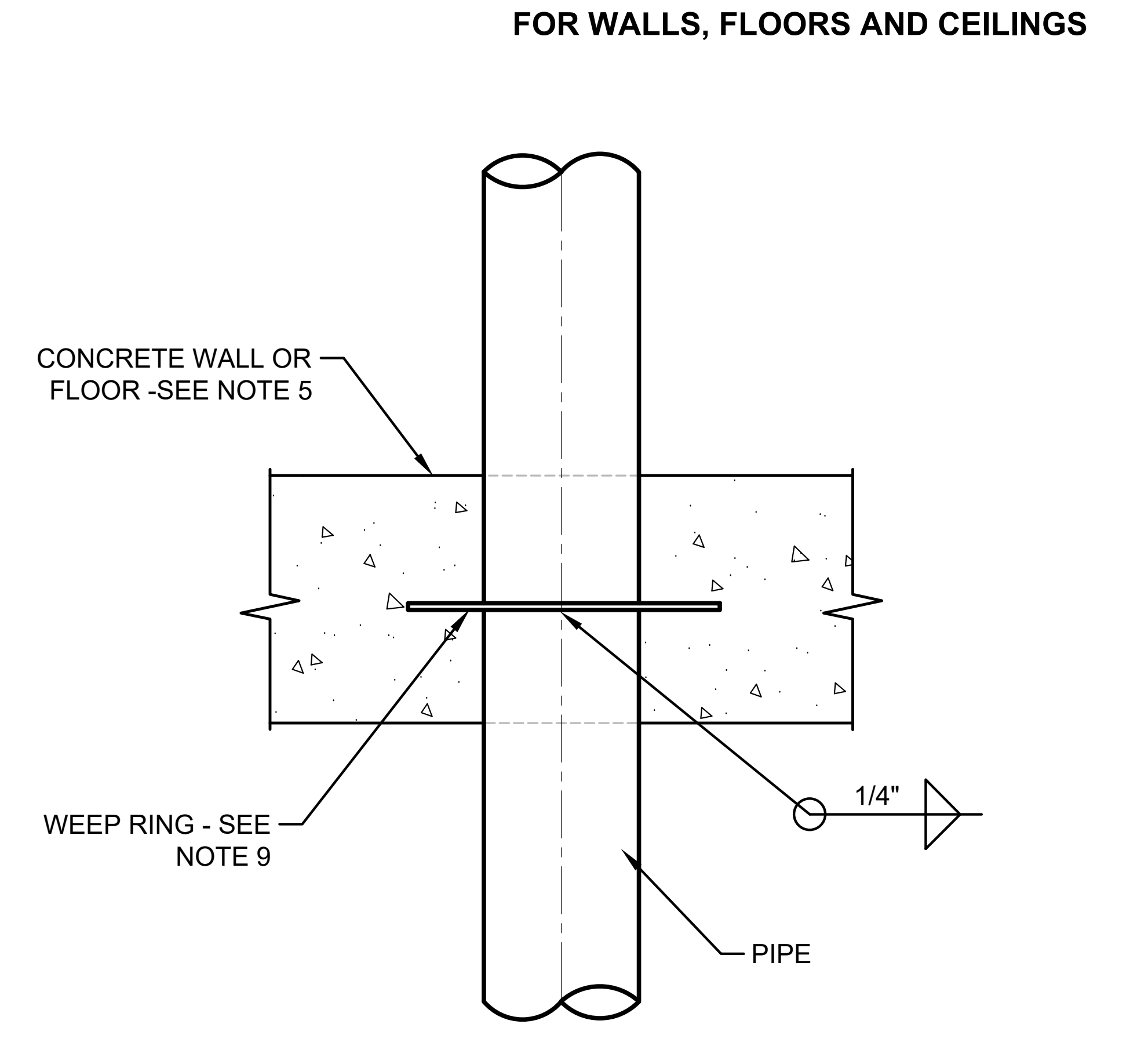
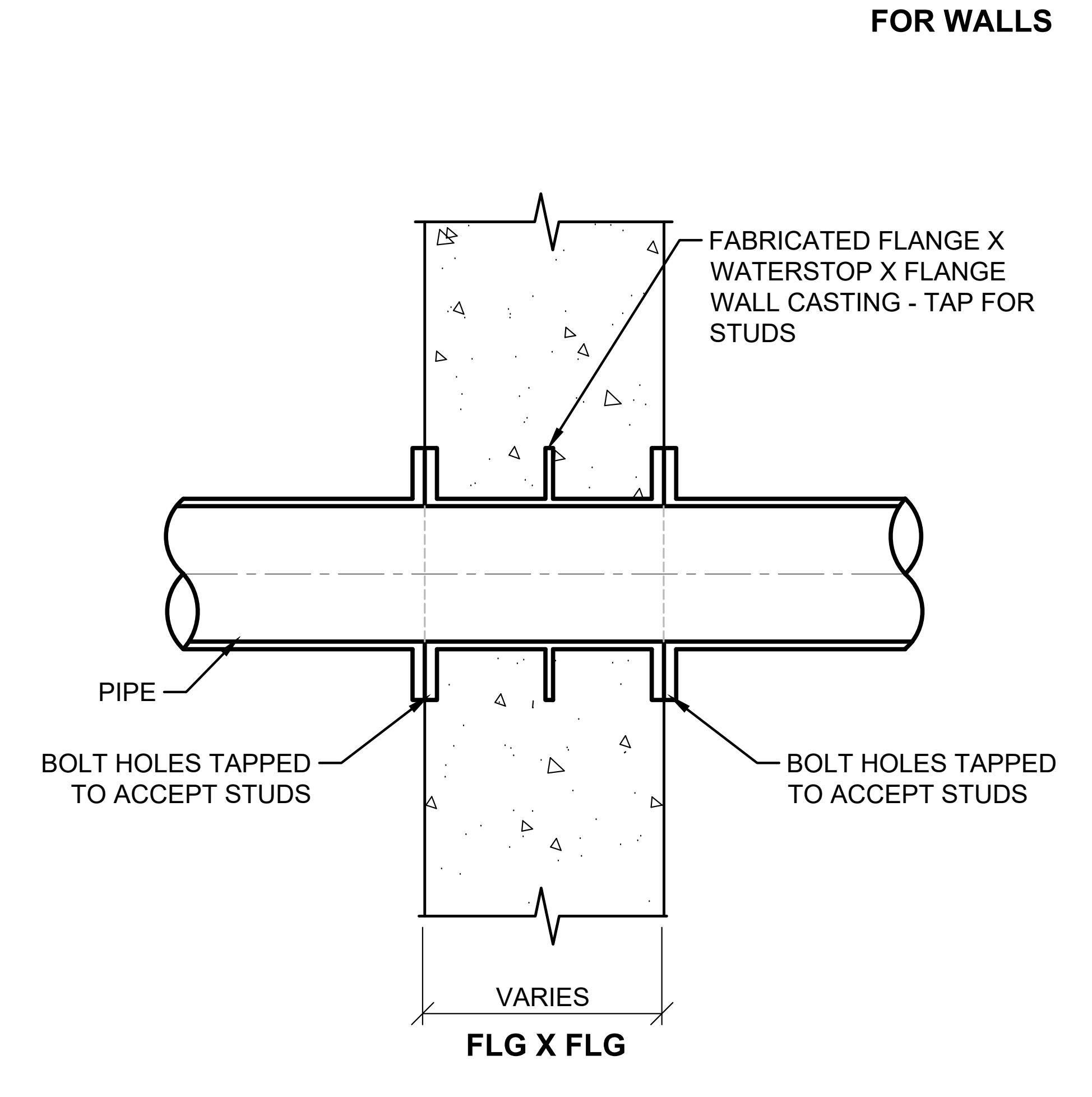

FOR FLOORS
PROVIDE 304 SST RING COVER
CAULK & BACKER ROD (TYPICAL)
WRAP PIPE FOR CATHODIC PROTECTION - SEE SPECS
6"
NOT REQUIRED FOR WALL PENETRATIONS
CONCRETE FLOOR
2"
FLOOR 304 SST SLEEVE, SHALL BE SIZED TO ALLOW PASSAGE OF PIPE FLANGE
PIPE
PASSAGE

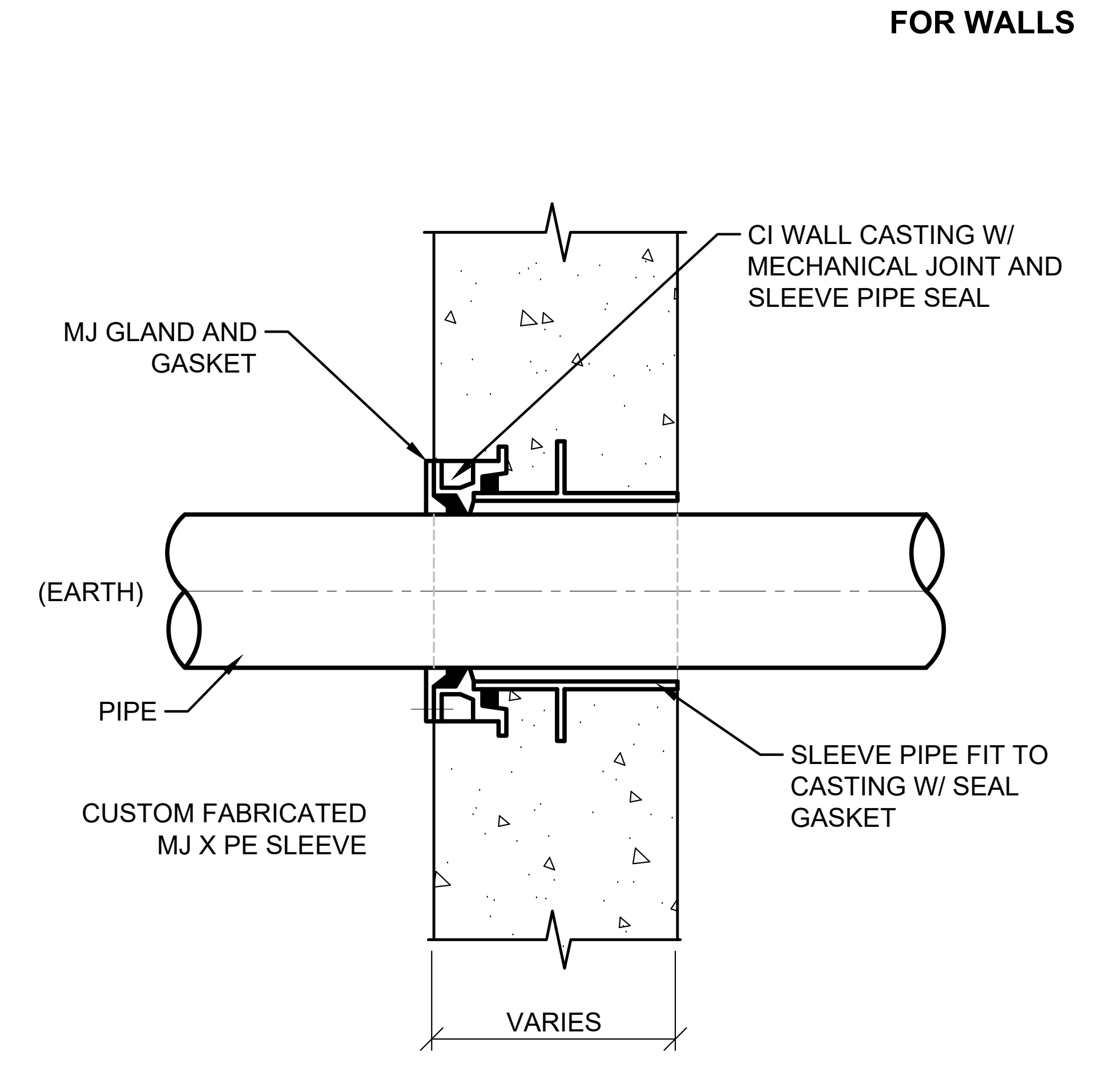
A
D-901
FLOOR SLEEVE W/ RING COVER
SCALE: NOT TO SCALE


FOR WALLS, FLOORS AND CEILINGS
CONCRETE WALL OR FLOOR -SEE NOTE 5
WEEP RING - SEE NOTE 9
1/4"
PIPE

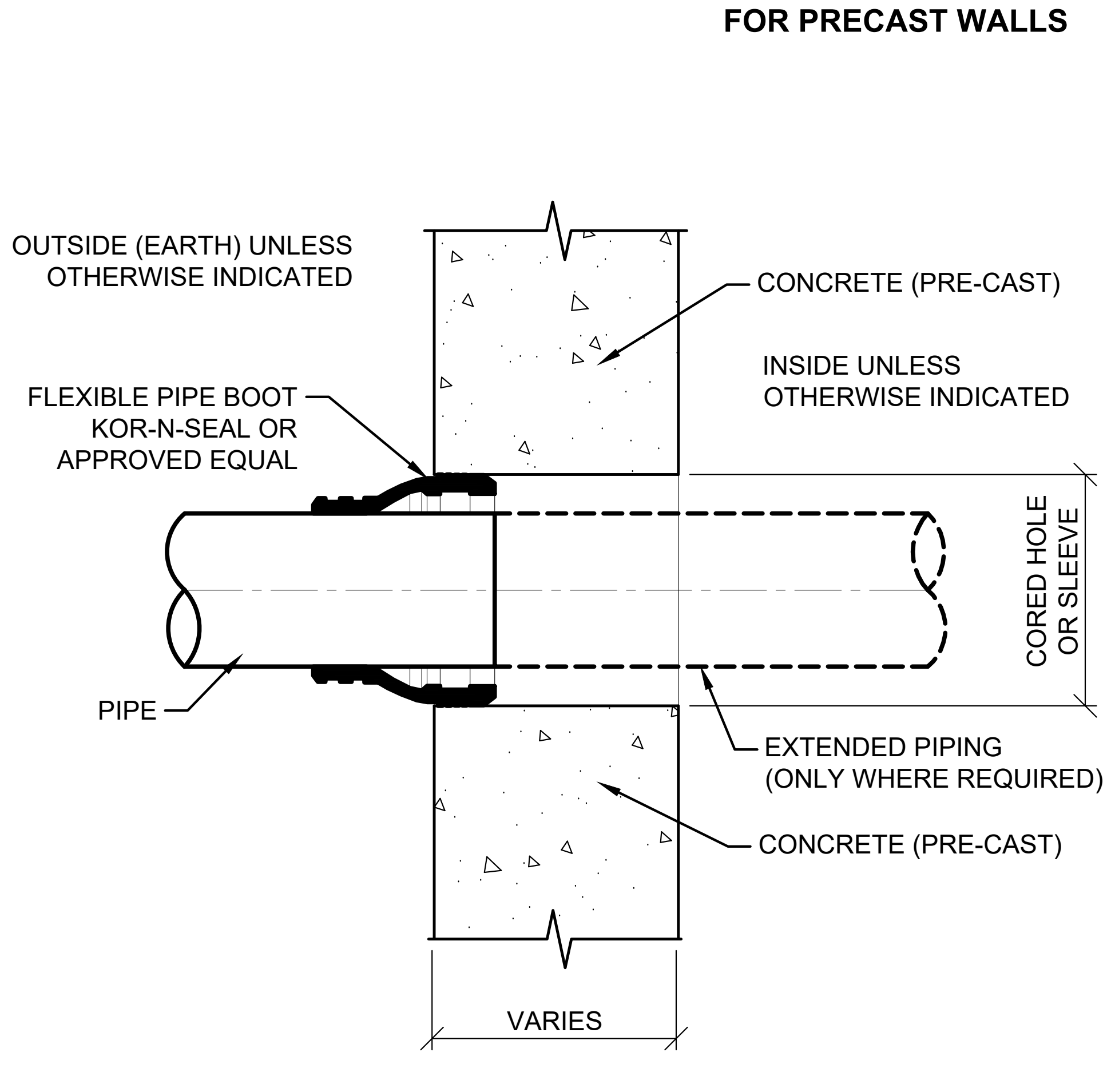
B
D-901
FLOOR/WALL PIPE (WEEP RING)
SCALE: NOT TO SCALE


FOR WALLS
FABRICATED FLANGE X WATERSTOP X FLANGE WALL CASTING - TAP FOR STUDS
PIPE
BOLT HOLES TAPPED TO ACCEPT STUDS
BOLT HOLES TAPPED TO ACCEPT STUDS
VARIES
FLG X FLG

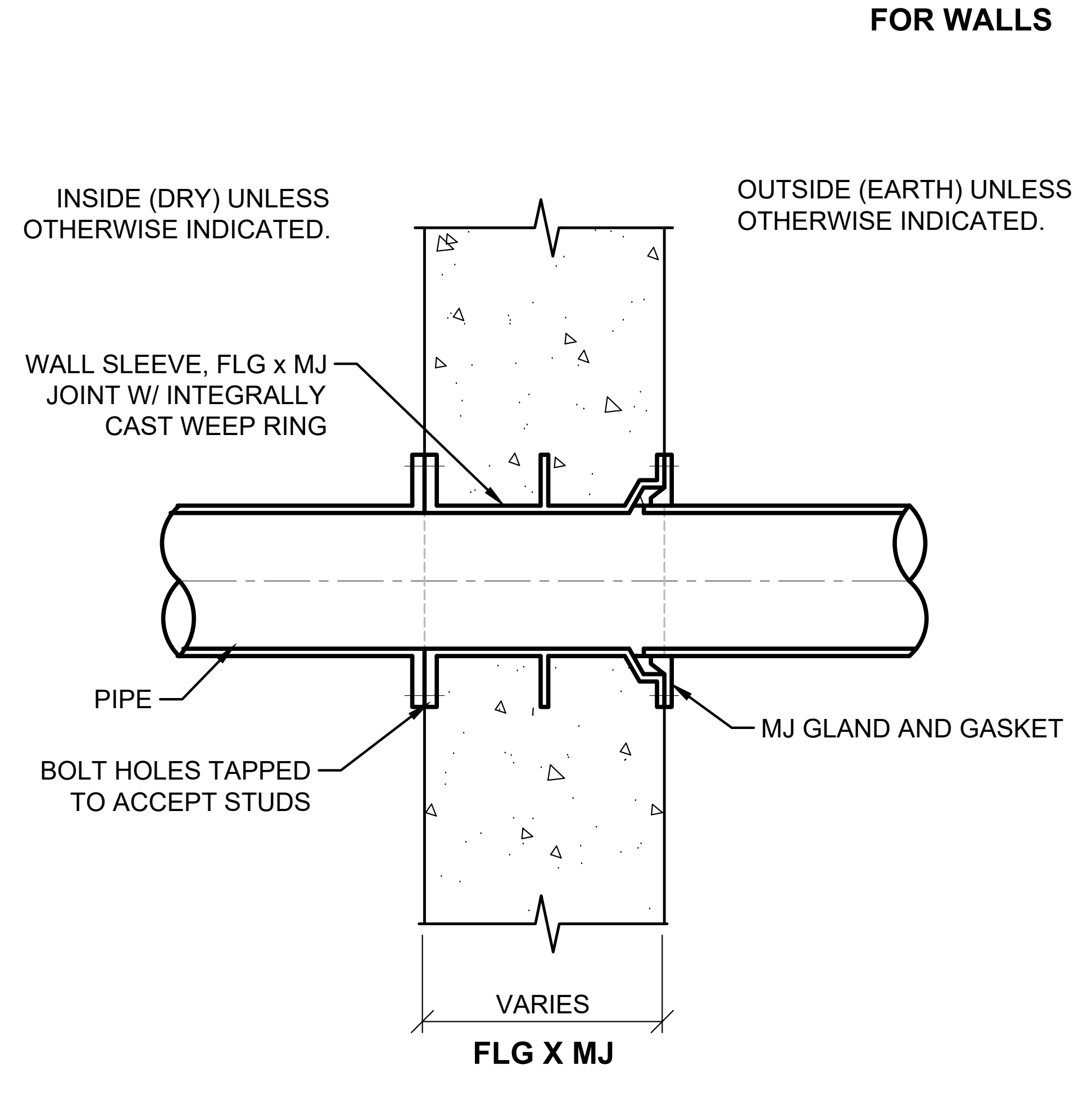
C
D-901
WALL PIPE (FLG X FLG)
SCALE: NOT TO SCALE


FOR WALLS
CI WALL CASTING W/ MECHANICAL JOINT AND SLEEVE PIPE SEAL
MJ GLAND AND GASKET
(EARTH)
PIPE
CUSTOM FABRICATED MJ X PE SLEEVE
SLEEVE PIPE FIT TO CASTING W/ SEAL GASKET
VARIES

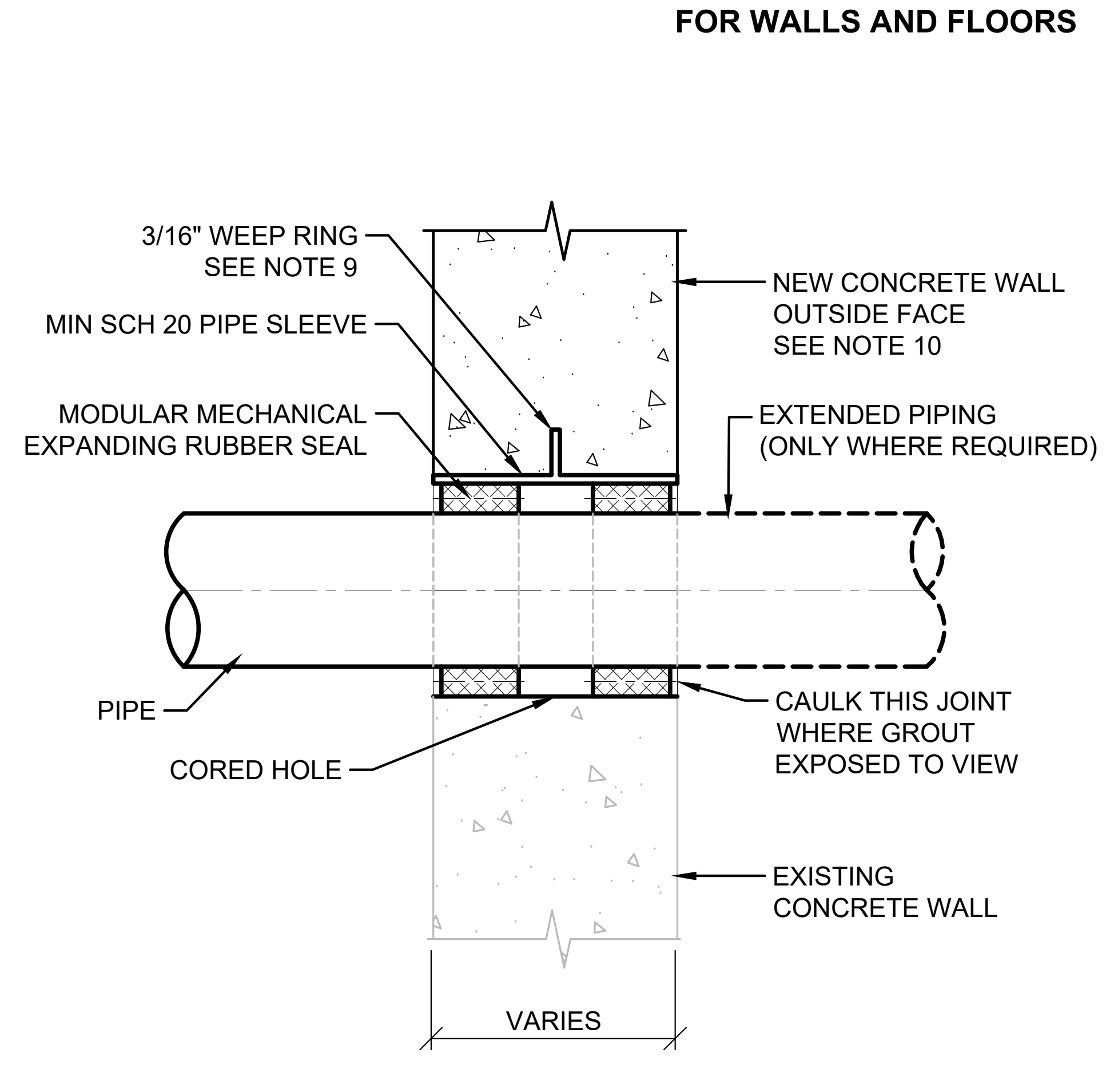
D
D-901
WALL PIPE (MJ GLAND)
SCALE: NOT TO SCALE


FOR PRECAST WALLS
OUTSIDE (EARTH) UNLESS OTHERWISE INDICATED
CONCRETE (PRE-CAST)
INSIDE UNLESS OTHERWISE INDICATED
FLEXIBLE PIPE BOOT KOR-N-SEAL OR APPROVED EQUAL
CORED HOLE OR SLEEVE
PIPE
EXTENDED PIPING (ONLY WHERE REQUIRED)
CONCRETE (PRE-CAST)
VARIES

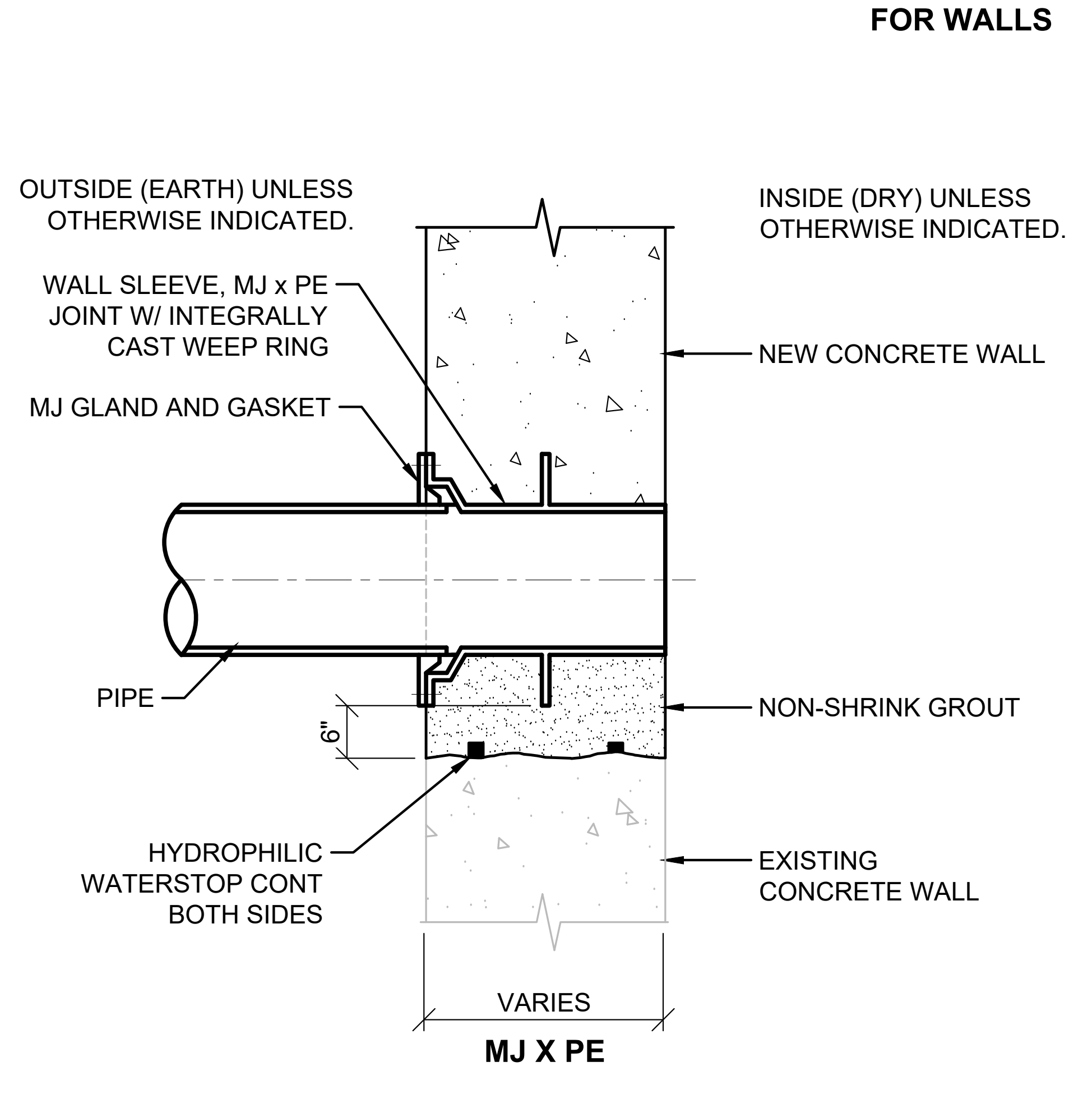
E
D-901
CORED/PRECAST OPENING W/ PIPE BOOT
SCALE: NOT TO SCALE


FOR WALLS
INSIDE (DRY) UNLESS OTHERWISE INDICATED.
OUTSIDE (EARTH) UNLESS OTHERWISE INDICATED.
WALL SLEEVE, FLG x MJ JOINT W/ INTEGRALLY CAST WEEP RING
PIPE
BOLT HOLES TAPPED TO ACCEPT STUDS
MJ GLAND AND GASKET
VARIES
FLG X MJ

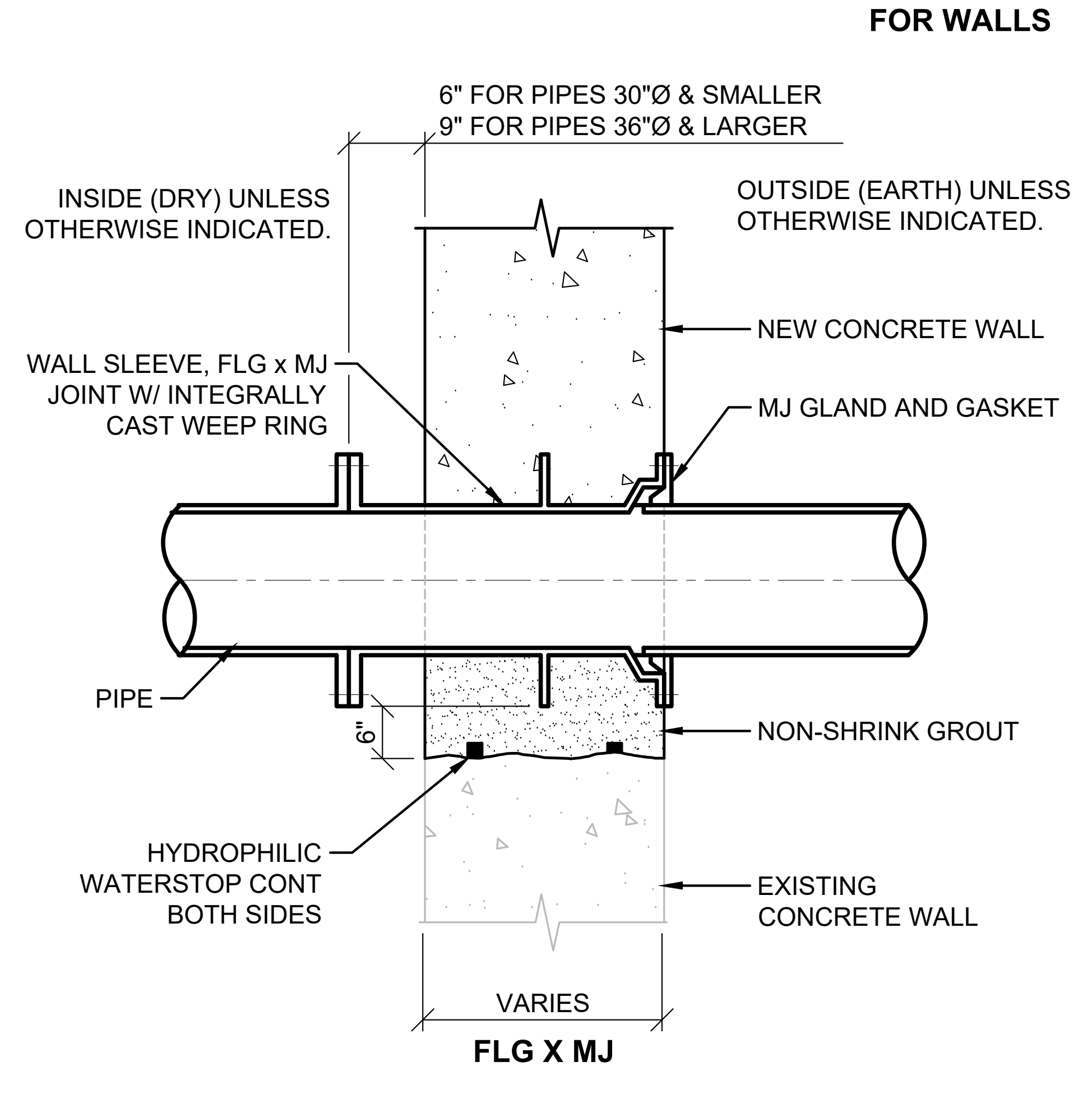
F
D-901
WALL PIPE (FLG X MJ/RJ)
SCALE: NOT TO SCALE


FOR WALLS AND FLOORS
3/16" WEEP RING SEE NOTE 9
MIN SCH 20 PIPE SLEEVE
MODULAR MECHANICAL EXPANDING RUBBER SEAL
NEW CONCRETE WALL OUTSIDE FACE SEE NOTE 10
EXTENDED PIPING (ONLY WHERE REQUIRED)
PIPE
CORED HOLE
CAULK THIS JOINT WHERE GROUT EXPOSED TO VIEW
EXISTING CONCRETE WALL
VARIES

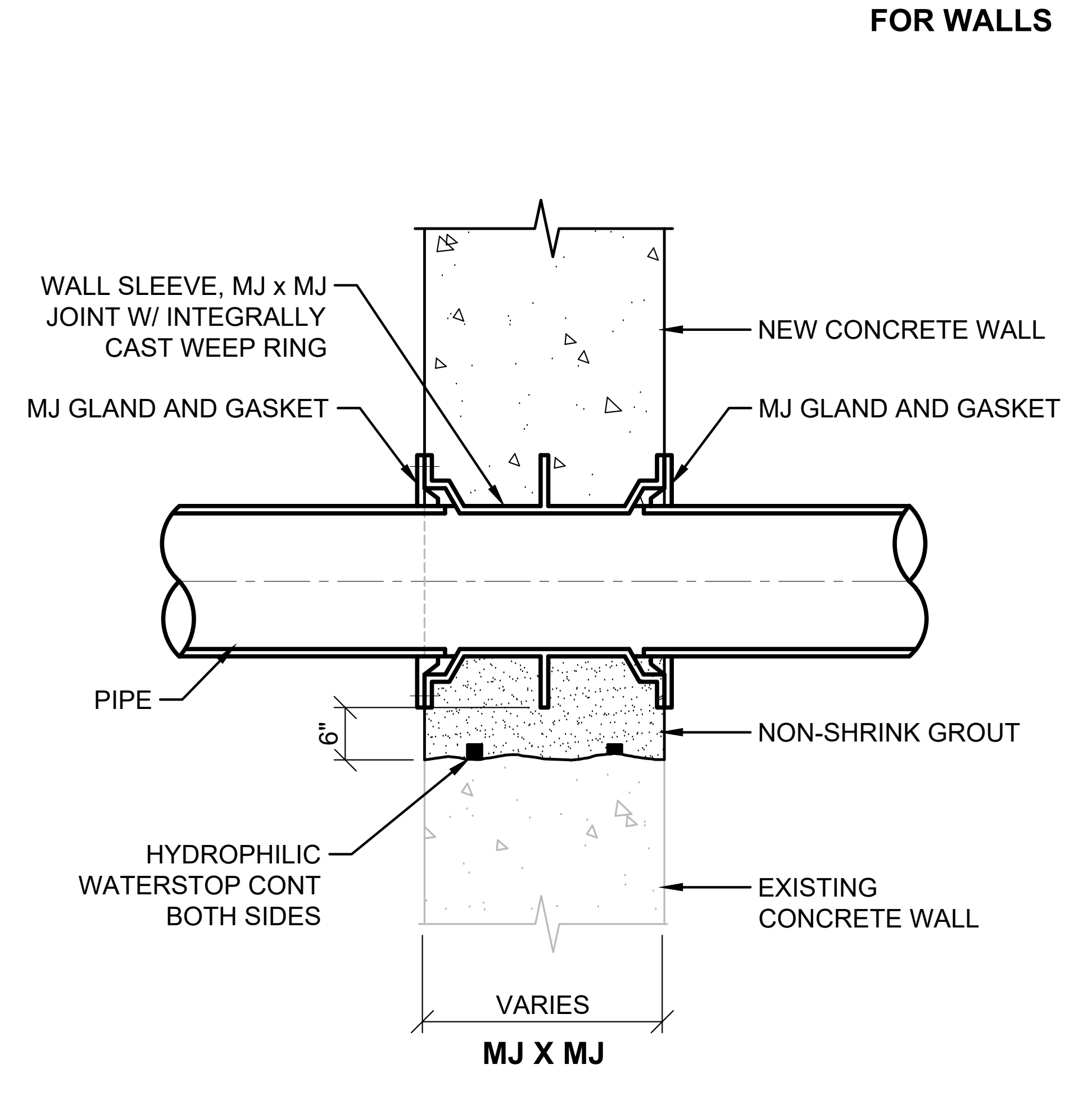
G
D-901
WALL SLEEVE W/ MODULAR LINK TYPE SEAL
SCALE: NOT TO SCALE


FOR WALLS
OUTSIDE (EARTH) UNLESS OTHERWISE INDICATED.
INSIDE (DRY) UNLESS OTHERWISE INDICATED.
WALL SLEEVE, MJ x PE JOINT W/ INTEGRALLY CAST WEEP RING
MJ GLAND AND GASKET
NEW CONCRETE WALL
PIPE
6"
NON-SHRINK GROUT
HYDROPHILIC WATERSTOP CONT BOTH SIDES
EXISTING CONCRETE WALL
VARIES
MJ X PE

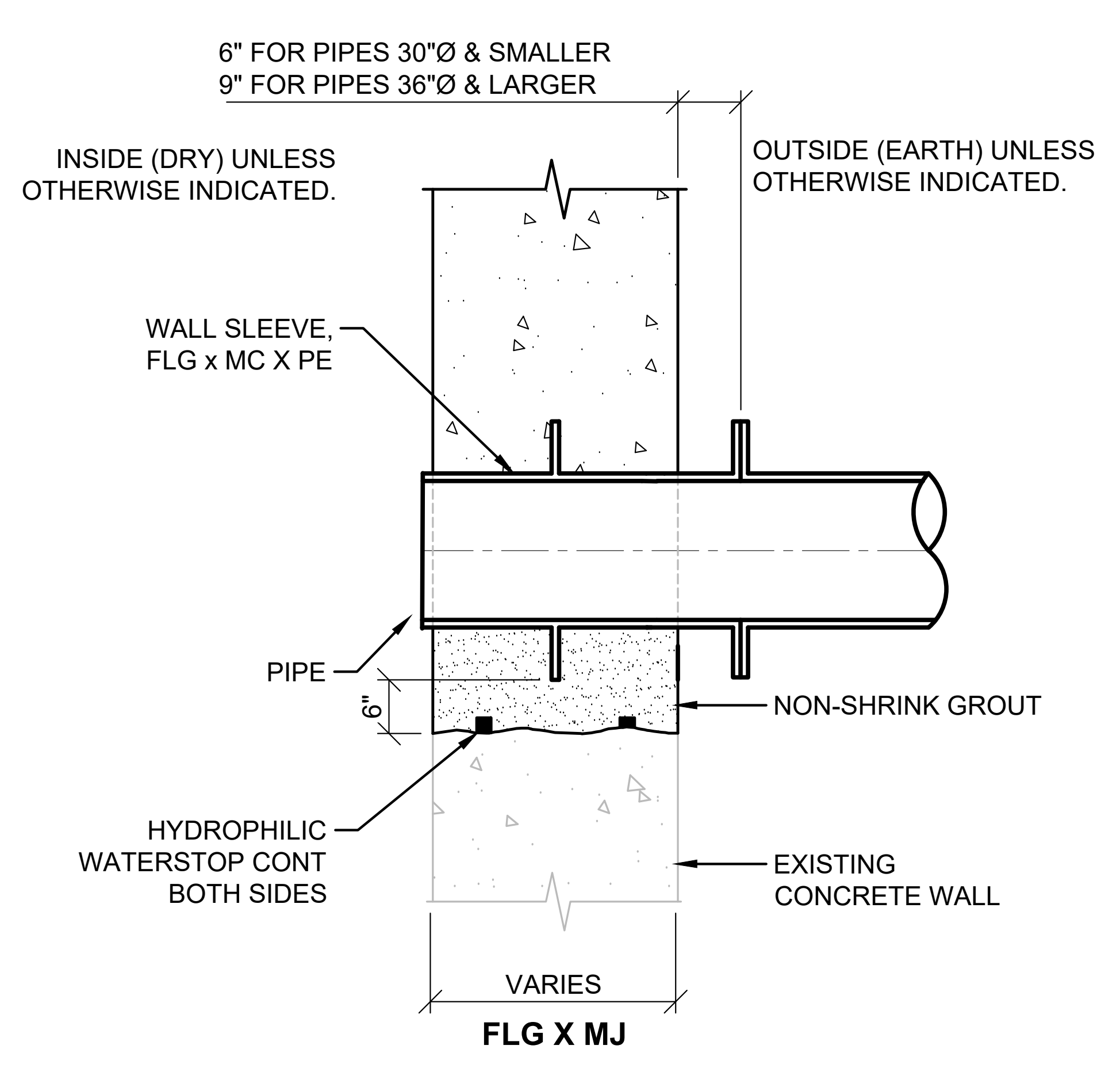
H
D-901
WALL PIPE (MJ X PE)
SCALE: NOT TO SCALE


FOR WALLS
6" FOR PIPES 30"Ø & SMALLER
9" FOR PIPES 36"Ø & LARGER
INSIDE (DRY) UNLESS OTHERWISE INDICATED.
OUTSIDE (EARTH) UNLESS OTHERWISE INDICATED.
NEW CONCRETE WALL
WALL SLEEVE, FLG x MJ JOINT W/ INTEGRALLY CAST WEEP RING
MJ GLAND AND GASKET
PIPE
6"
NON-SHRINK GROUT
HYDROPHILIC WATERSTOP CONT BOTH SIDES
EXISTING CONCRETE WALL
VARIES
FLG X MJ

I
D-901
WALL PIPE (FLG X MJ/RJ)
SCALE: NOT TO SCALE



J
D-901
WALL PIPE (MJ/RJ X MJ/RJ)
SCALE: NOT TO SCALE


6" FOR PIPES 30"Ø & SMALLER
9" FOR PIPES 36"Ø & LARGER
INSIDE (DRY) UNLESS OTHERWISE INDICATED.
OUTSIDE (EARTH) UNLESS OTHERWISE INDICATED.
WALL SLEEVE, FLG x MC X PE
PIPE
6"
NON-SHRINK GROUT
HYDROPHILIC WATERSTOP CONT BOTH SIDES
EXISTING CONCRETE WALL
VARIES
FLG X MJ

K
D-901
WALL PIPE (FLG X MC X PE)
SCALE: NOT TO SCALE

PIPE PENETRATION NOTES:

1. ALL SLEEVES SHALL BE 304 STAINLESS STEEL, SCH 20 UNLESS NOTED OTHERWISE.
2. SEAL FLANGES SHALL BE DRILLED TO 150 POUND STANDARD. EACH JOINT SHALL BE GASKETED.
3. WHERE NOTED, DUCTILE IRON FLANGES MAY BE INSTALLED FLUSH W/ WALL & TAPPED FOR STUDS.
4. PROVIDE CURB WHERE PENETRATING FLOOR EXCEPT FOR PENETRATION TYPE A. CURB SHALL BE 4" HIGH & 3" WIDE.
5. PROVIDE A MINIMUM OF 3" CLEARANCE BETWEEN REINFORCING STEEL & PIPE PENETRATIONS.
6. FLEXIBLE JOINTS SHALL BE PROVIDED FOR UNDERGROUND PIPING AS SPECIFIED.
7. RESTRAINED FLEXIBLE COUPLINGS FOR STEEL PIPE SHALL BE DESIGNED FOR 100 PSI LINE PRESSURE IN ACCORDANCE W/ AWWA MANUAL M11. FIGURES 19.15 & 19.16 & TABLE 19.17 SHALL BE UTILIZED.
8. INSULATION SHALL NOT EXTEND THROUGH SLEEVES UNLESS OTHERWISE NOTED.
9. WEEP RINGS SHALL HAVE A MINIMUM DIAMETER EQUAL TO THE PIPE DIAMETER PLUS 3 INCHES.
10. SLEEVED DIAMETER SHALL BE AS RECOMMENDED BY THE MECHANICAL SEAL MANUFACTURER.
11. ALL WALL PIPE SHALL BE CAST UNLESS OTHERWISE NOTED.
12. PROVIDE PIPE JOINT WITHIN TWO (2) FEET OF EXTERIOR WALL FACE OF WALL AT CONNECTION TO ALL NEW & EXISTING STRUCTURES OR MANHOLES.
13. DETAIL NUMBERS G, H, I, & J REPRESENT MODIFICATIONS TO EXISTING STRUCTURES & NEW CONSTRUCTION.

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Exp.06.30.2026

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
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Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

CATL230033

PROCESS PIPING
PIPE PENETRATION
DETAILS

D-901

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PLOTTED: Mar 19, 2025 - 2:05pm

TABLE A

NOMINAL PIPE SIZE (INCHES)	SUPPORT ROD SIZE AND MAXIMUM LOAD PER ROD SEE NOTES 2 AND 3				MAXIMUM PIPE SPAN (FEET) SEE NOTE 4			
	ONE ROD SUPPORT SYSTEM		TWO ROD SUPPORT SYSTEM					
	ROD SIZE (INCHES)	MAX LOAD (POUNDS)	ROD SIZE (INCHES)	MAX LOAD (POUNDS)	STEEL SEE NOTE 3	COPPER	PLASTIC SEE NOTE 5	CAST IRON SEE NOTE 6
3/8 TO 3/4	3/8	610	3/8	610	5	5	CONTINUOUS	- - -
1	3/8	610	3/8	610	5	5	5	- - -
1 1/4	3/8	610	3/8	610	5	5	5	- - -
1 1/2	3/8	610	3/8	610	5	5	5	- - -
2	3/8	610	3/8	610	10	5	5	12 FEET FOR DUCTILE IRON 10 FEET FOR CAST IRON
2 1/2	3/8	610	3/8	610	10	10	5	
3	3/8	610	3/8	610	10	20	5	
4	1/2	1130	3/8	610	10	20	10	
6	3/4	1810	1/2	1130	15	20	20	
8	3/4	2710	1/2 (5/8)	1130 (1810)	15	20	20	
10	3/4 (1)	2710 (4960)	5/8 (3/4)	1810 (2710)	20	- - -	20	
12	7/8 (1 1/4)	3770 (8000)	3/4 (7/8)	2710 (3370)	20	- - -	20	
14	1	4960	- - -	- - -	20	- - -	- - -	
16	1	4960	- - -	- - -	20	- - -	- - -	
18	1	4960	- - -	- - -	20	- - -	- - -	
20	1 1/4	8000	- - -	- - -	20	- - -	- - -	
24	1 1/4	8000	- - -	- - -	20	- - -	- - -	
30	1 1/2	12,000	1 1/2	24,000	20	- - -	- - -	

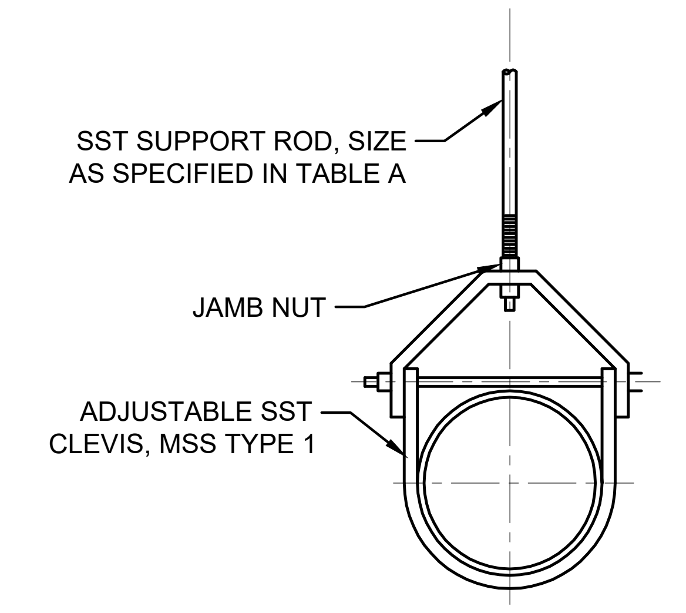
TABLE B

X INDICATES PIPE HANGERS SUITABLE FOR CONDITIONS LISTED BELOW:		PIPE HANGER TYPE						
		1	2	3	4	5	6	7
SERVICE TEMPERATURE								
33° F - 59° F	INSULATED	-	-	X	X	X	-	-
120° F - 450° F	UNINSULATED	X	X	X	X	X	X	X
60° F - 119° F		X	X	X	-	-	X	X
PIPING MATERIALS								
STEEL		X	X	X	X	X	X	X
COPPER		-	X	-	X	-	X	X
PLASTIC		X	X	-	X	X	X	X
CAST IRON		X	X	-	X	X	X	X

TABLE C

SUPPORTED PIPE	SUPPORTING PIPE/FL
4	2
6	2 1/2
8	4
10	4
12	6
14	6

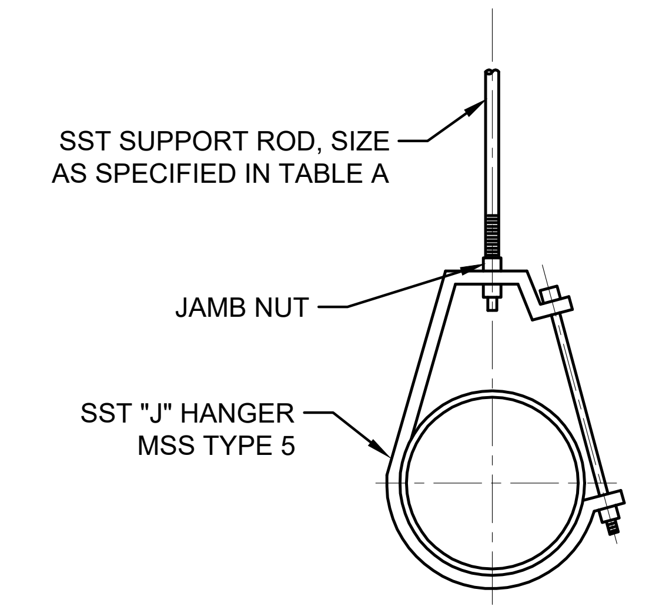
1/2" THROUGH 12" PIPE


SST SUPPORT ROD, SIZE AS SPECIFIED IN TABLE A
JAMB NUT
ADJUSTABLE SST CLEVIS, MSS TYPE 1

1 D-902 **TYPE 1 PIPE HANGER**

SCALE: NOT TO SCALE

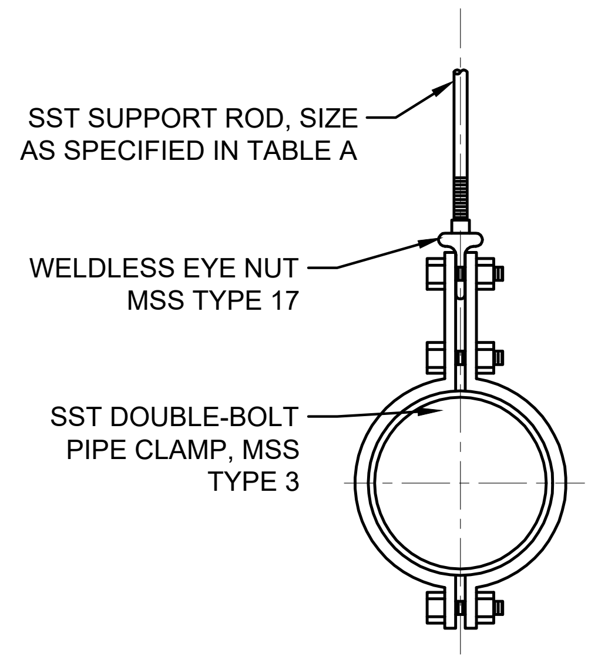
1/2" THROUGH 8" PIPE


SST SUPPORT ROD, SIZE AS SPECIFIED IN TABLE A
JAMB NUT
SST "J" HANGER MSS TYPE 5

2 D-902 **TYPE 2 PIPE HANGER**

SCALE: NOT TO SCALE

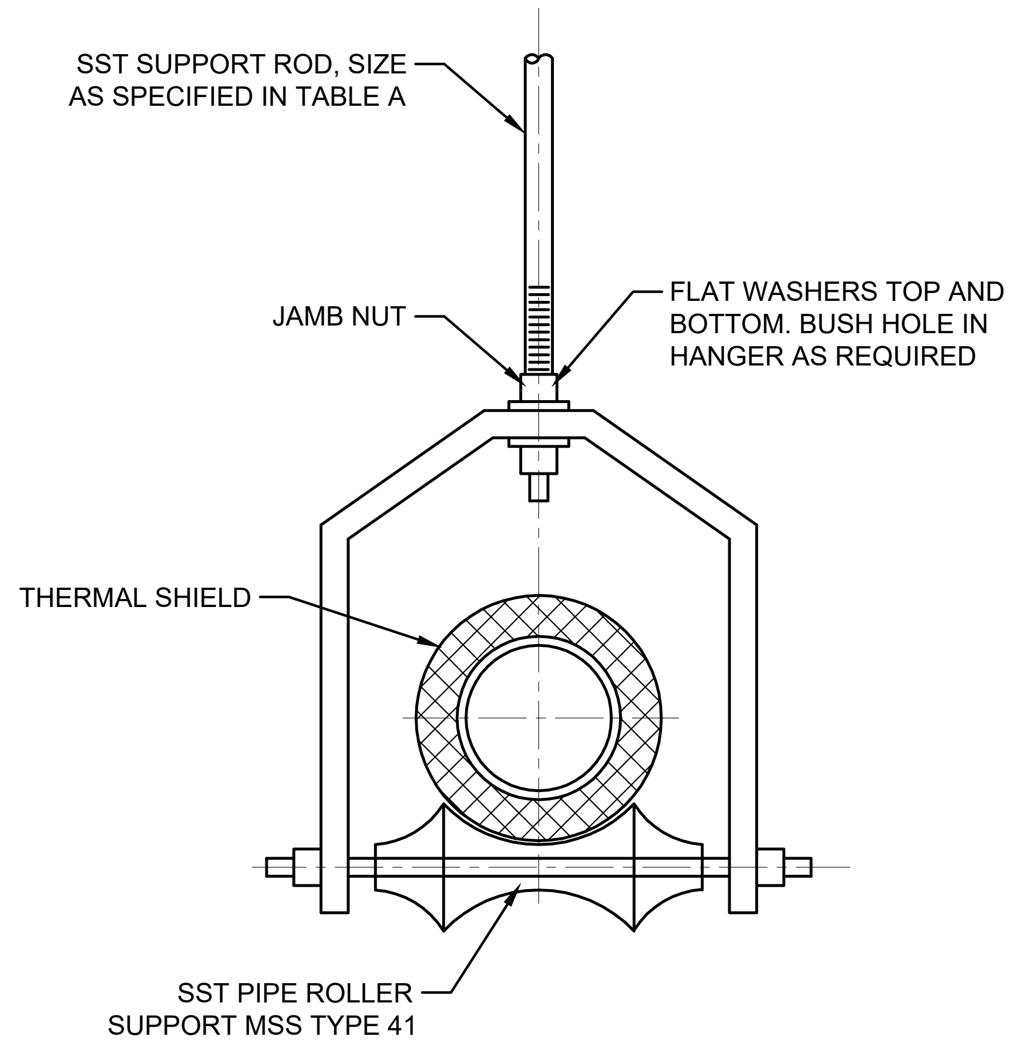
3/4" THROUGH 12" PIPE


SST SUPPORT ROD, SIZE AS SPECIFIED IN TABLE A
WELDLESS EYE NUT MSS TYPE 17
SST DOUBLE-BOLT PIPE CLAMP, MSS TYPE 3

3 D-902 **TYPE 3 PIPE HANGER**

SCALE: NOT TO SCALE

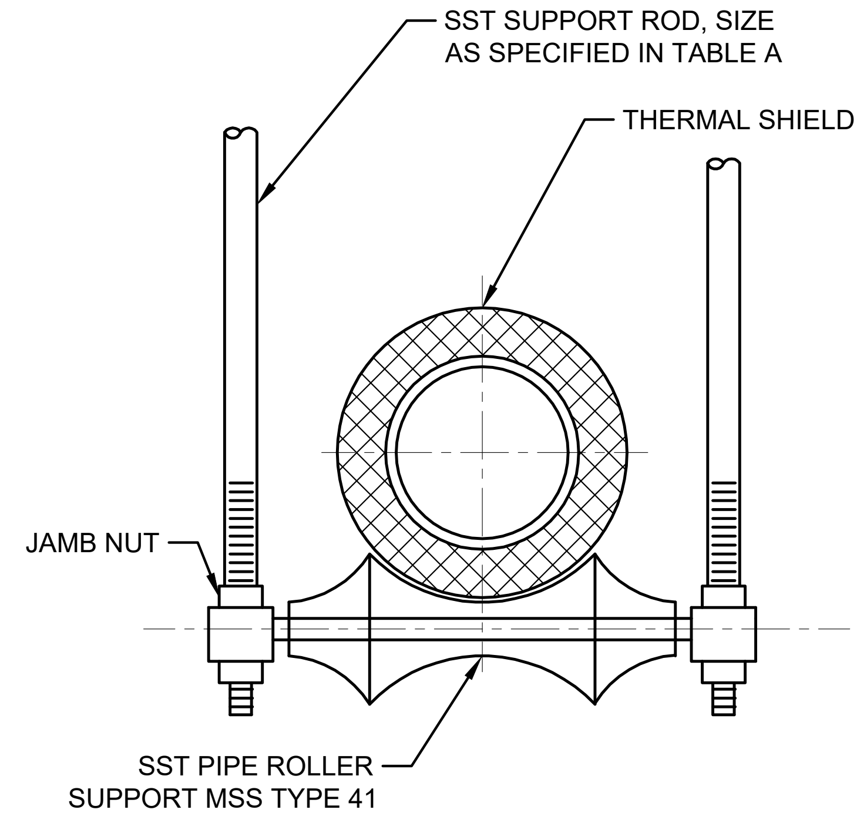
3/8" THROUGH 12" PIPE


SST SUPPORT ROD, SIZE AS SPECIFIED IN TABLE A
JAMB NUT
FLAT WASHERS TOP AND BOTTOM. BUSH HOLE IN HANGER AS REQUIRED
THERMAL SHIELD
SST PIPE ROLLER SUPPORT MSS TYPE 41

4 D-902 **TYPE 4 PIPE HANGER**

SCALE: NOT TO SCALE

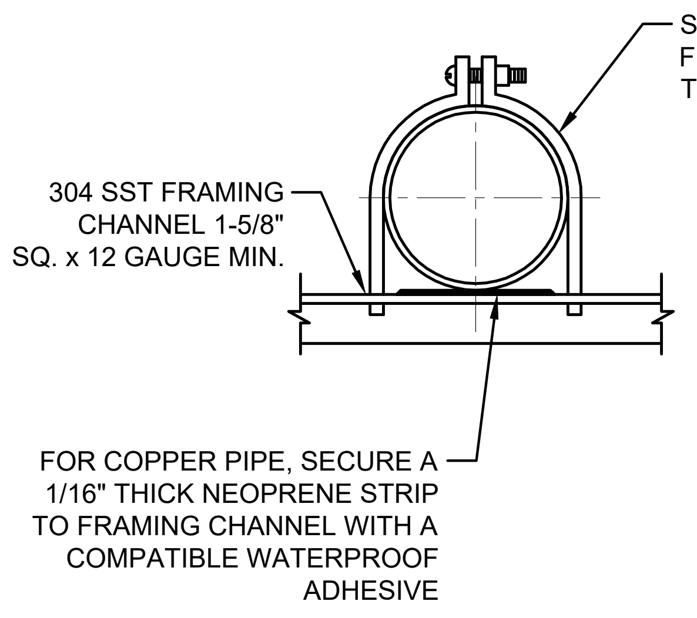
3/8" THROUGH 12" PIPE


SST SUPPORT ROD, SIZE AS SPECIFIED IN TABLE A
THERMAL SHIELD
JAMB NUT
SST PIPE ROLLER SUPPORT MSS TYPE 41

5 D-902 **TYPE 5 PIPE HANGER**

SCALE: NOT TO SCALE

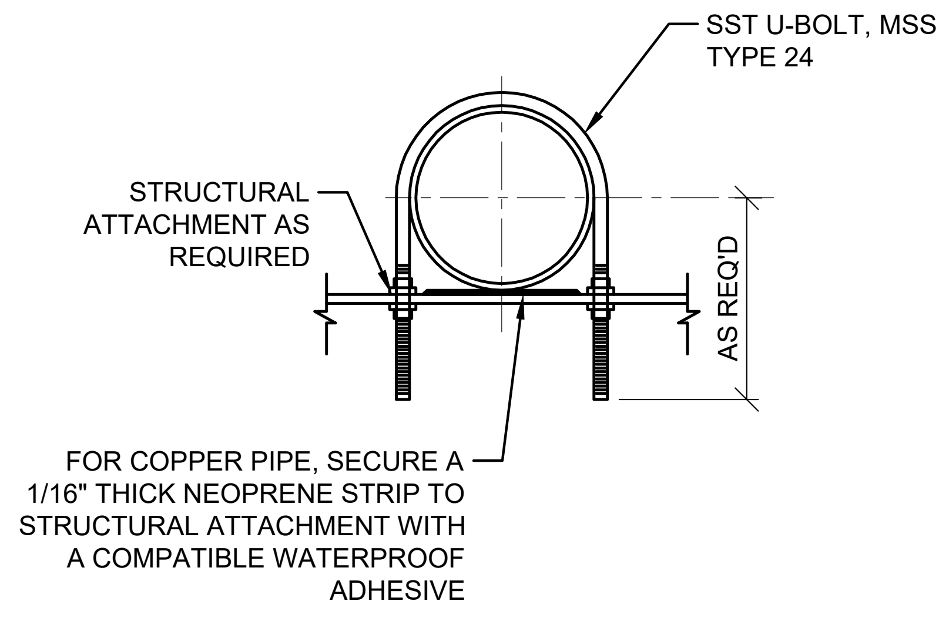
3/8" THROUGH 8" PIPE


SST PIPE CLAMP, FRAMING CHANNEL TYPE
304 SST FRAMING CHANNEL 1-5/8" SQ. x 12 GAUGE MIN.
FOR COPPER PIPE, SECURE A 1/16" THICK NEOPRENE STRIP TO FRAMING CHANNEL WITH A COMPATIBLE WATERPROOF ADHESIVE

6 D-902 **TYPE 6 PIPE HANGER**

SCALE: NOT TO SCALE

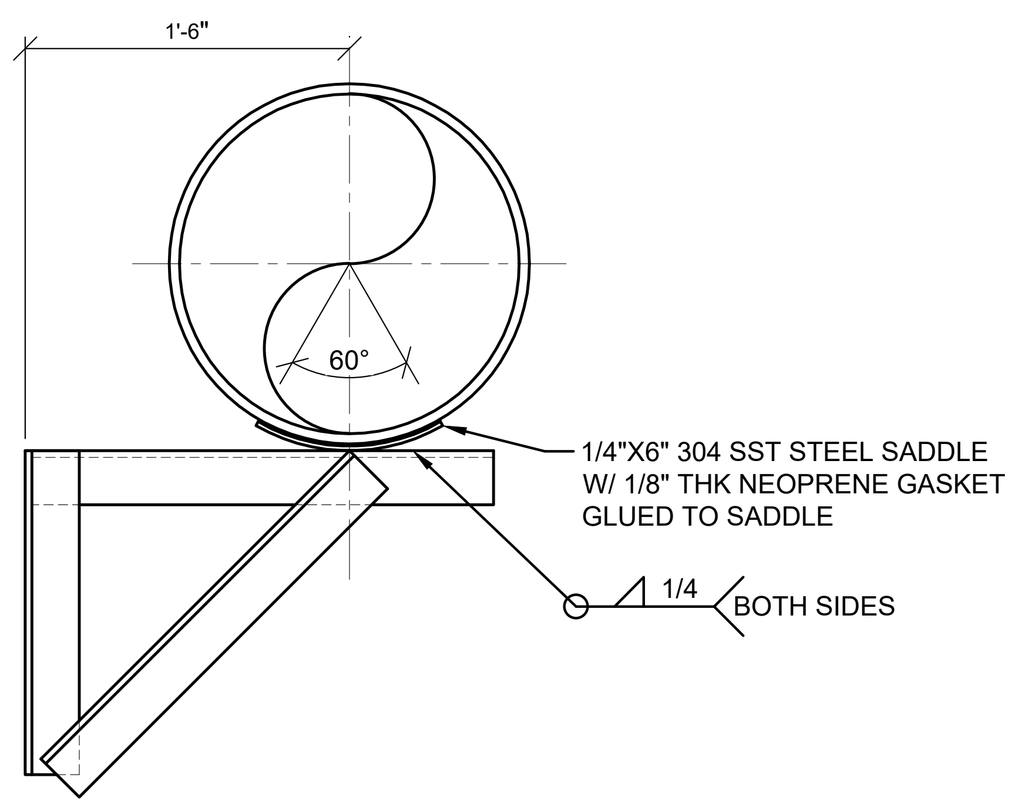
1/2" THROUGH 12" PIPE


SST U-BOLT, MSS TYPE 24
STRUCTURAL ATTACHMENT AS REQUIRED
AS REQ'D
FOR COPPER PIPE, SECURE A 1/16" THICK NEOPRENE STRIP TO STRUCTURAL ATTACHMENT WITH A COMPATIBLE WATERPROOF ADHESIVE

7 D-902 **TYPE 7 PIPE HANGER**

SCALE: NOT TO SCALE

6" THROUGH 20" PIPE


1'-6"
60°
1/4"X6" 304 SST STEEL SADDLE W/ 1/8" THK NEOPRENE GASKET GLUED TO SADDLE
1/4
BOTH SIDES

8 D-902 **TYPE 8 PIPE HANGER**

SCALE: NOT TO SCALE

GENERAL NOTES:

1. WHERE NO REFERENCE TO PIPE SUPPORT SYSTEMS ARE GIVEN ON THE DRAWINGS. THE CONTRACTOR SHALL USE AN APPROPRIATE SYSTEM. SEE TABLE "B". PIPE AND CONDUIT SUPPORT SYSTEMS SHALL BE UNISTRUT, ELCEN, OR EQUAL, AND SHALL BE DESIGNED BY THE CONTRACTOR TO MEET THE MINIMUM LOAD AND SPAN REQUIREMENTS AS SPECIFIED.
2. MATERIALS FOR HANGERS, SUPPORTS AND ASSOCIATED HARDWARE SHALL BE 304 OR 316 SST.
3. UNLESS OTHERWISE SPECIFIED, EXPANSION ANCHORS SHALL NOT BE USED.
4. MSS REFERS TO THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY, STANDARD PRACTICE SP58 AND SP69.
5. HANGER BRACKETS AND SUPPORT COMPONENTS MAY BE INTERCHANGED.
6. CONCRETE INSERTS IN AREA BELOW WATER SURFACE OR NORMALLY SUBJECT TO SUBMERGING SHALL BE EMBEDDED ANCHOR BOLTS OR EQUAL.
7. PROVIDE PLASTIC OR RUBBER CHANNEL END CAPS AT EXPOSED ENDS OF CHANNELS 7'-0" ABOVE FLOOR AND BELOW.
8. MAXIMUM DESIGN WEIGHTS AND LOADS SHALL BE AS SHOWN IN TABLE "A" OR AS SHOWN IN THE DETAILS ON THIS DRAWING.
9. WHEN SUPPORT PIPING REQUIRES HORIZONTAL FLEXIBILITY NORMAL TO A STEEL BEAM AXIS, USE STRUCTURAL ATTACHMENTS C AND D AS SHOWN ON DRAWING D-903.
10. ALL PIPING SUPPORTED BY HANGERS AND/OR STRUCTURAL ATTACHMENTS SHALL BE BRACED AGAINST HORIZONTAL, VERTICAL, AXIAL, AND LONGITUDINAL SWAY. BRACING SHALL BE CALCULATED TO RESIST SEISMIC LOADINGS AS SPECIFIED BY SMACNA AND AS INDICATED IN THE SPECIFICATIONS.
11. FITTINGS SHALL NOT BE LESS THAN MSS CL B.
12. UNLESS OTHERWISE SPECIFIED, TRAPEZE AND PIPE RACK COMPONENTS SHALL HAVE A MINIMUM THICKNESS OF 12 GAGE WITH A MAXIMUM DEFLECTION 1/240 OF THE SPAN. MINIMUM CHANNEL COMPONENT SIZE SHALL BE 1 5/8" SQUARE 316 SST AS MANUFACTURED BY SUPER STRUT, UNISTRUT, ELCEN, OR EQUAL.

TABLE A NOTES:

1. DESIGN WEIGHT SHALL BE TWICE THE WEIGHT OF THE PIPE FULL OF WATER PLUS THE WEIGHT OF VALVES, FITTINGS, INSULATING MATERIALS, AND SUSPENDED HANGER COMPONENTS ON THE RUN OF PIPE BEING SUPPORTED.
2. ROD SIZES SHOWN ARE FOR THE SUPPORT OF A SINGLE PIPE. WHEN SUPPORTING MORE THAN ONE PIPE, ROD SHALL BE SIZED USING THE DESIGN WEIGHTS (SEE NOTE 1) TO DETERMINE THE TOTAL DESIGN LOAD. THE TOTAL DESIGN LOAD SHALL NOT EXCEED THE MAXIMUM LOADS IN THE TABLE ABOVE.
3. ROD SIZES AND MAXIMUM LOADS IN PARENTHESIS ARE FOR 8", 10" OR 12" STEEL PIPE ONLY, AT SPANS SHOWN.
4. PIPE SHALL NOT HAVE POCKETS FORMED IN THE SPAN DUE TO SAGGING OF THE PIPE BETWEEN SUPPORTS CAUSED BY THE WEIGHT OF THE PIPE, MEDIUM IN THE PIPE, INSULATION, VALVES AND FITTINGS.
5. SPAN SHOWN IS FOR SCHEDULE 80 PVC PIPE AT 100 DEGREES F. SPANS FOR OTHER PLASTICS, OTHER PVC PIPE SCHEDULES, AND PIPES AT HIGHER TEMPERATURES, SHALL BE SHORTENED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS. CONTINUOUS MEANS PIPE SHALL BE IN UNISTRUT OR SIMILAR CHANNEL.
6. PROVIDE A MINIMUM OF ONE PIPE HANGER PER PIPE LENGTH, WITHIN 4 INCHES OF THE BELL.
7. PIPE HANGER AND SUPPORT SELECTION SHALL BE IN ACCORDANCE WITH TABLE B.

TABLE B NOTES:

1. FOR SERVICES OTHER THAN THOSE SHOWN IN TABLE "B", PIPE ATTACHMENTS SHALL BE THOSE SPECIFIED IN THE PIPE SPECS.

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No.PEF007898
Exp.06.30.2026

1" .5" 0" 1"

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

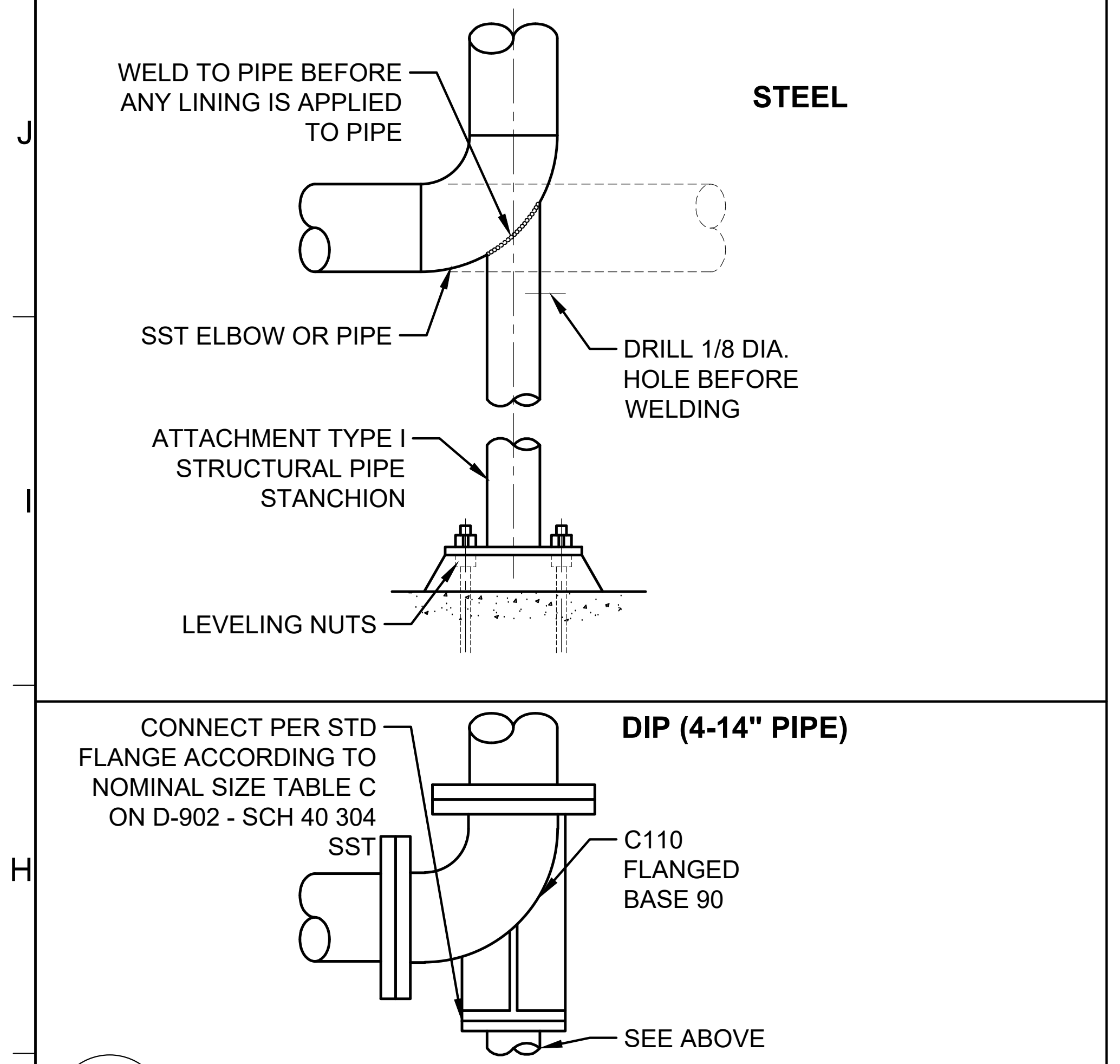
No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

PROCESS PIPING SUPPORT DETAILS

D-902

DRAWING FILE: C:\Users\GSIZEM~1\AppData\Local\Temp\AcPublish_29044\D-902 PIPE SUPPORTS.dwg
PLOTTED: Mar 19, 2025 - 2:05pm

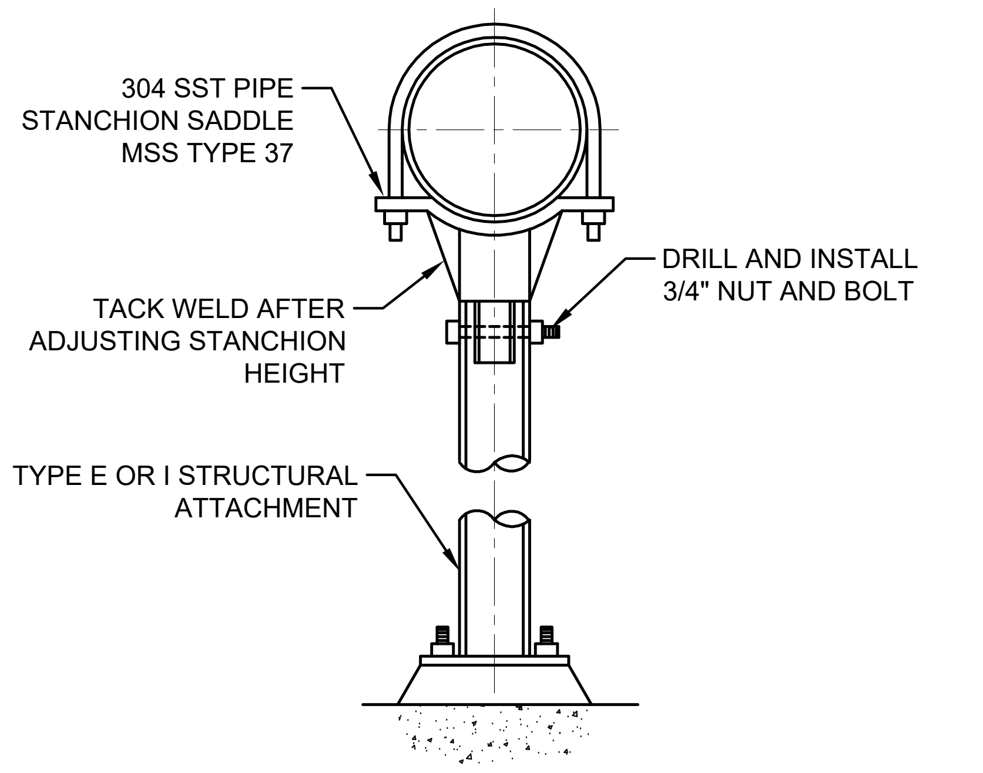
2-1/2" THROUGH 14" PIPE


STEEL
WELD TO PIPE BEFORE ANY LINING IS APPLIED TO PIPE
SST ELBOW OR PIPE
DRILL 1/8 DIA. HOLE BEFORE WELDING
ATTACHMENT TYPE I STRUCTURAL PIPE STANCHION
LEVELING NUTS
DIP (4-14" PIPE)
CONNECT PER STD FLANGE ACCORDING TO NOMINAL SIZE TABLE C ON D-902 - SCH 40 304 SST
C110 FLANGED BASE 90
SEE ABOVE

9 D-903 **TYPE 9 PIPE HANGER**

SCALE: NOT TO SCALE

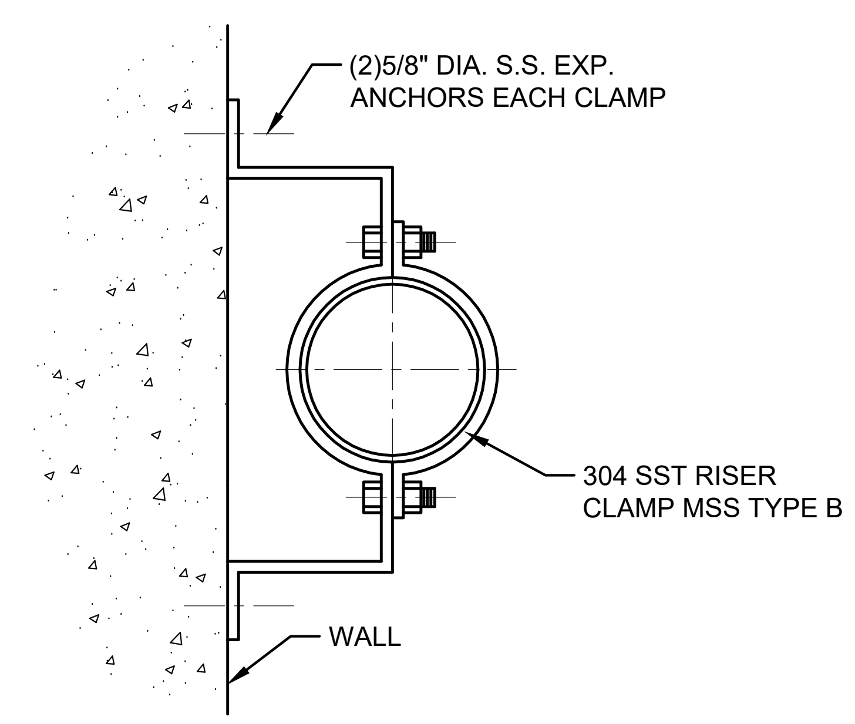
4" THROUGH 12" PIPE


304 SST PIPE STANCHION SADDLE MSS TYPE 37
DRILL AND INSTALL 3/4" NUT AND BOLT
TACK WELD AFTER ADJUSTING STANCHION HEIGHT
TYPE E OR I STRUCTURAL ATTACHMENT

10 D-903 **TYPE 10 PIPE SUPPORT**

SCALE: NOT TO SCALE

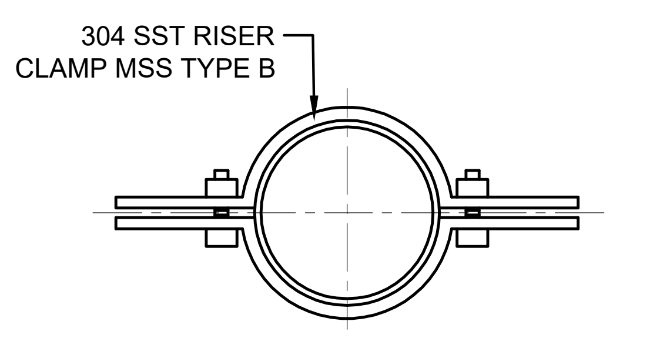
FOR VERTICAL PIPE ONLY
3/4" THROUGH 8" PIPE


(2)5/8" DIA. S.S. EXP. ANCHORS EACH CLAMP
304 SST RISER CLAMP MSS TYPE B
WALL

11 D-903 **TYPE 11 PIPE HANGER**

SCALE: NOT TO SCALE

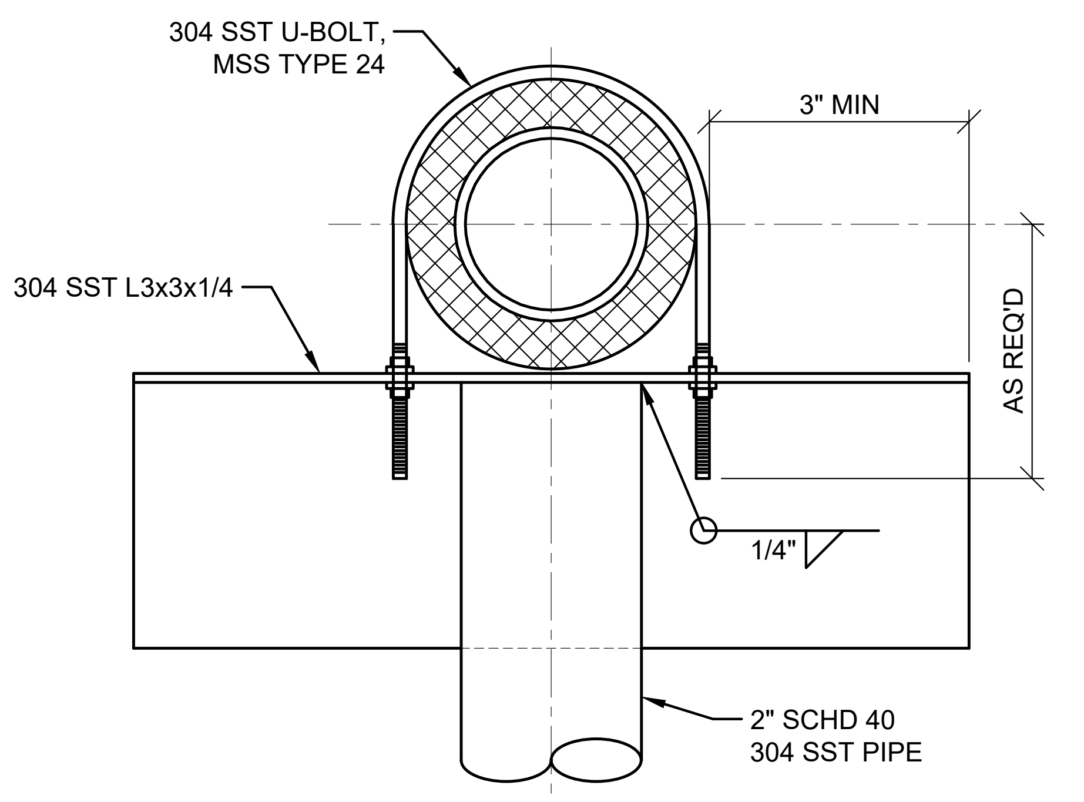
FOR VERTICAL PIPE ONLY
1/2" THROUGH 12" PIPE



12 D-903 **TYPE 12 PIPE HANGER**

SCALE: NOT TO SCALE

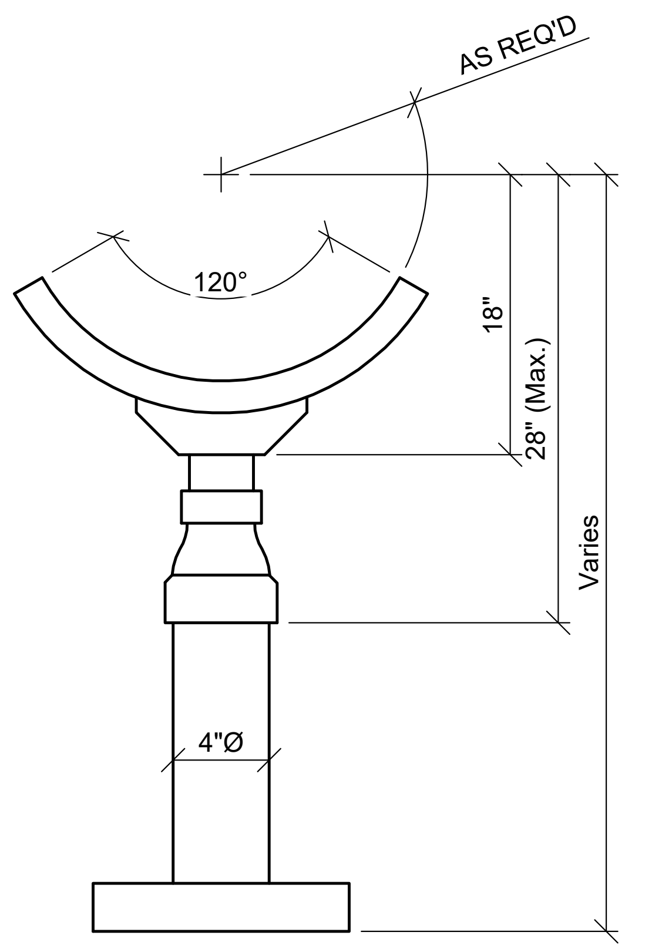
1/2" THROUGH 3" PIPE



13 D-903 **TYPE 13 PIPE HANGER**

SCALE: NOT TO SCALE

14" THROUGH 30" PIPE

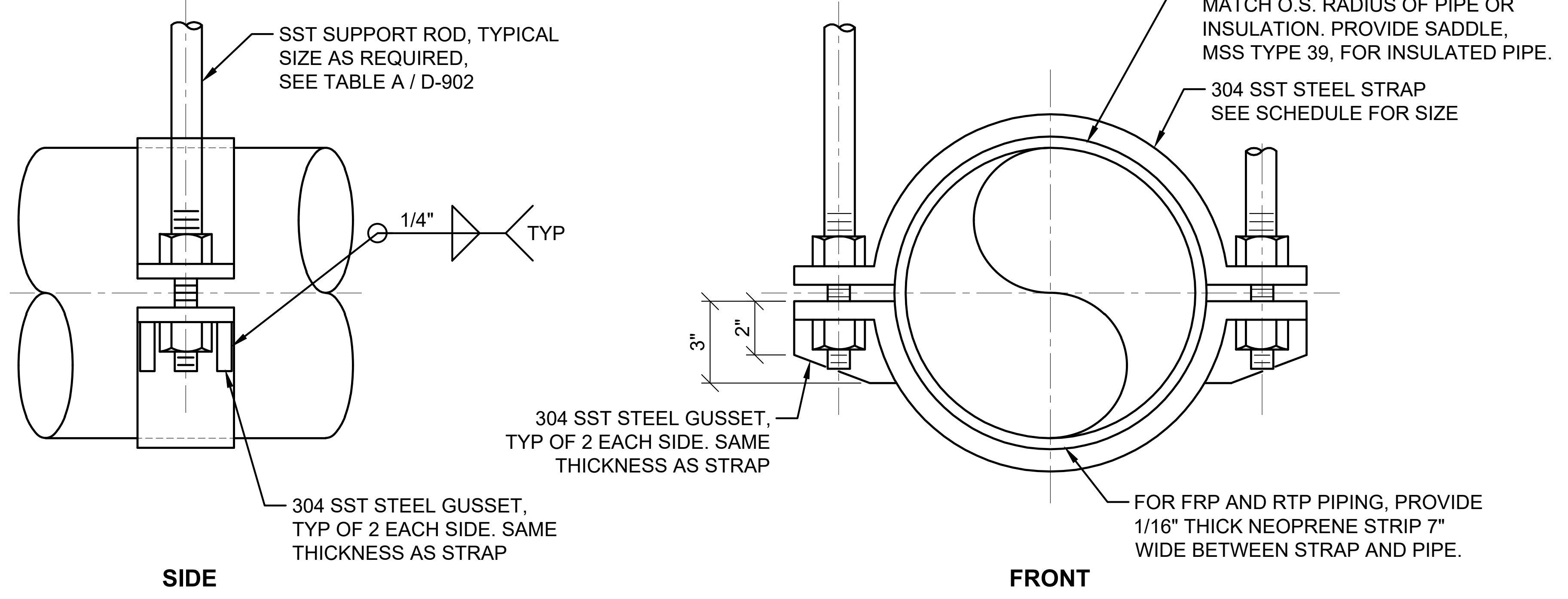


14 D-903 **TYPE 14 PIPE SUPPORT**

SCALE: NOT TO SCALE

STRAP SCHEDULE	
PIPE SIZE	**STRAP SIZE**
14" TO 16"	1/2"x6"
18" TO 20"	5/8"x6"
24" TO 30"	3/4"x6"

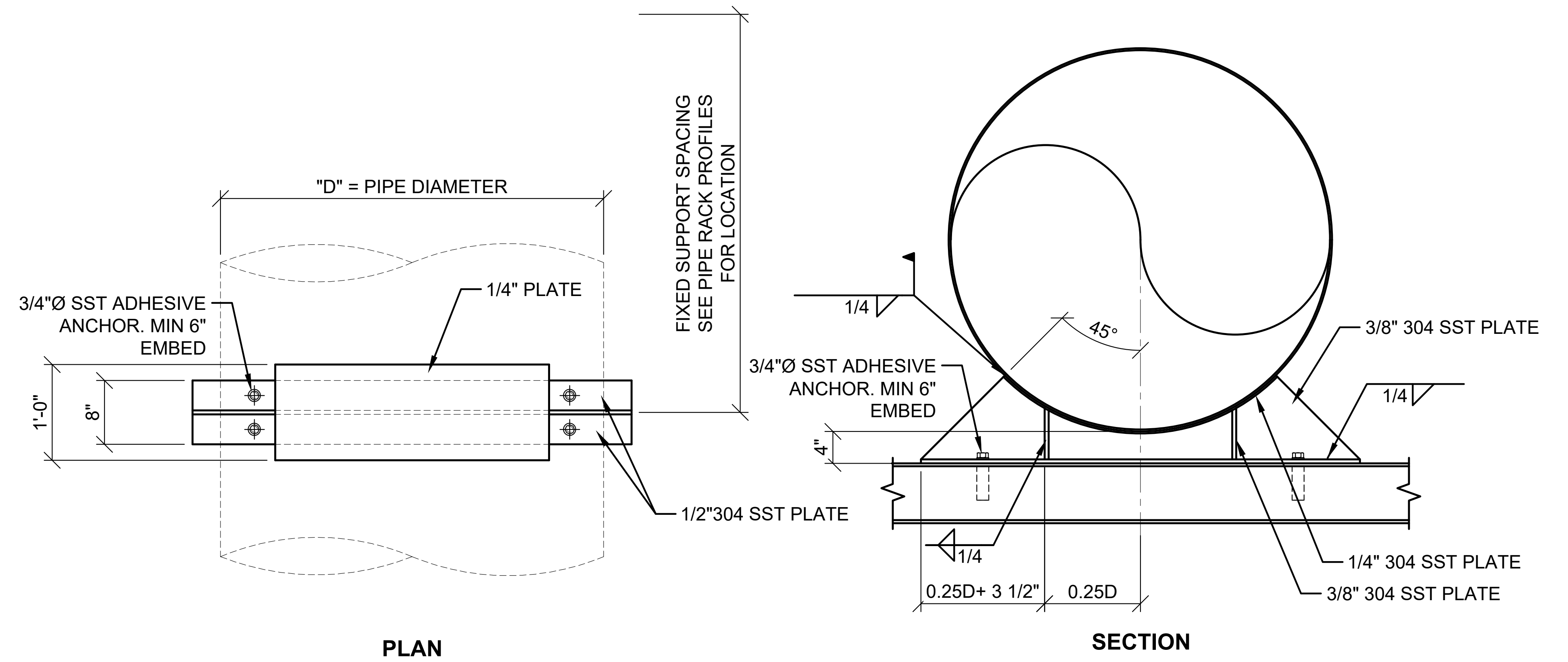
14" THROUGH 30" PIPE


SST SUPPORT ROD, TYPICAL SIZE AS REQUIRED, SEE TABLE A / D-902
1/4"
TYP
304 SST STEEL GUSSET, TYP OF 2 EACH SIDE. SAME THICKNESS AS STRAP
SIDE
INSIDE RADIUS OF STRAP SHALL MATCH O.S. RADIUS OF PIPE OR INSULATION. PROVIDE SADDLE, MSS TYPE 39, FOR INSULATED PIPE.
304 SST STEEL STRAP SEE SCHEDULE FOR SIZE
3"
2"
304 SST STEEL GUSSET, TYP OF 2 EACH SIDE. SAME THICKNESS AS STRAP
FOR FRP AND RTP PIPING, PROVIDE 1/16" THICK NEOPRENE STRIP 7" WIDE BETWEEN STRAP AND PIPE.
FRONT

15 D-903 **TYPE 15 PIPE HANGER**

SCALE: NOT TO SCALE

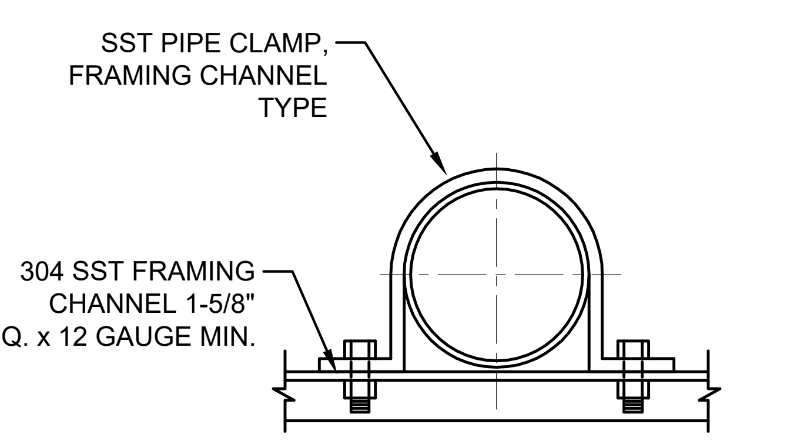
42" THROUGH 60" PIPE



16 D-903 **FIXED PIPE SUPPORT**

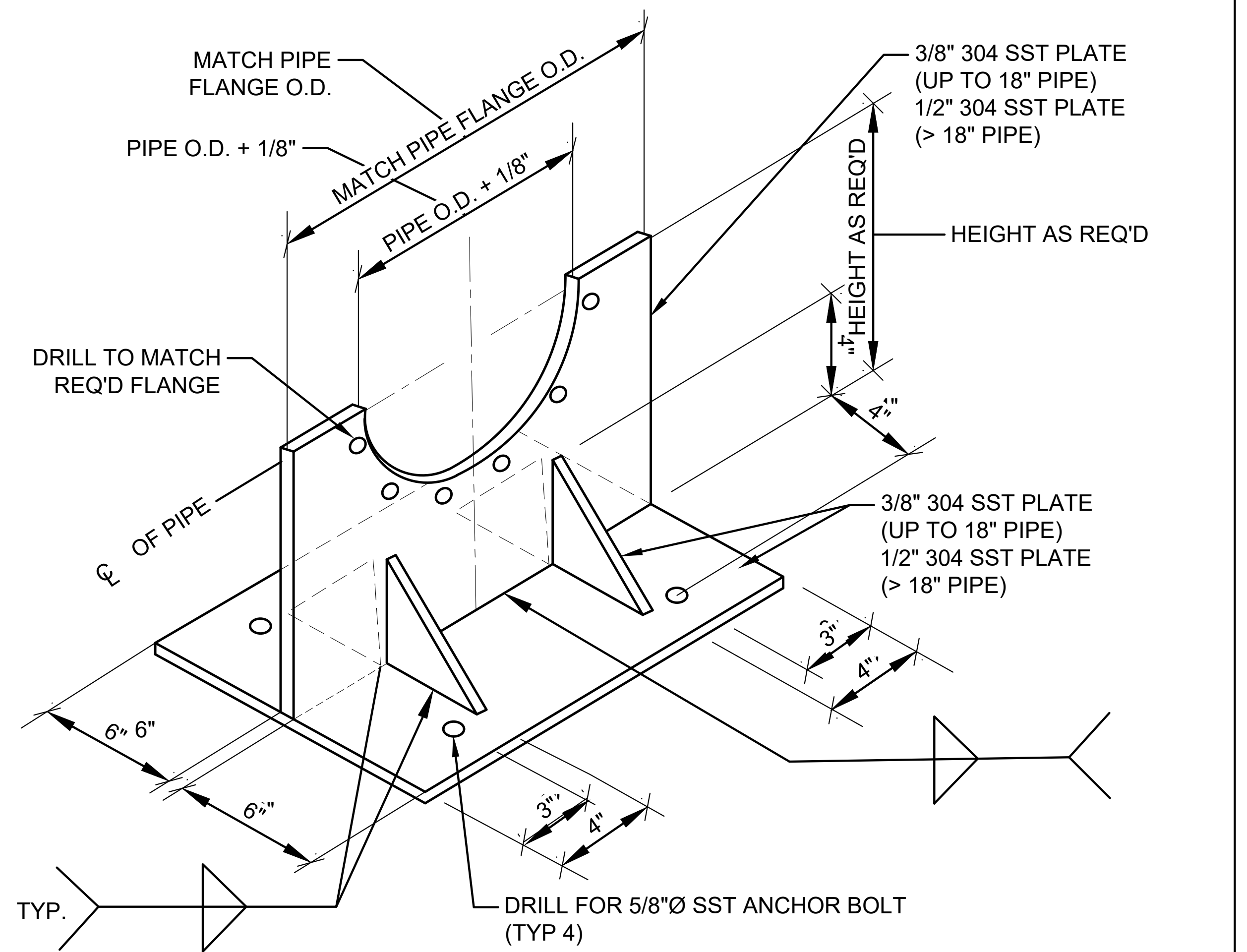
SCALE: NOT TO SCALE

1/2" THROUGH 6" PIPE


SST PIPE CLAMP, FRAMING CHANNEL TYPE
304 SST FRAMING CHANNEL 1-5/8" SQ. x 12 GAUGE MIN.

16 D-903 **TYPE 16 PIPE HANGER**

SCALE: NOT TO SCALE


MATCH PIPE FLANGE O.D.
PIPE O.D. + 1/8"
MATCH PIPE FLANGE O.D.
PIPE O.D. + 1/8"
3/8" 304 SST PLATE (UP TO 18" PIPE) 1/2" 304 SST PLATE (> 18" PIPE)
HEIGHT AS REQ'D
HEIGHT AS REQ'D
4"
4"
DRILL TO MATCH REQ'D FLANGE
℄ OF PIPE
3/8" 304 SST PLATE (UP TO 18" PIPE) 1/2" 304 SST PLATE (> 18" PIPE)
3"
4"
6" 6"
6"
3"
4"
TYP.
DRILL FOR 5/8"Ø SST ANCHOR BOLT (TYP 4)

17 D-903 **TYPE 17 PIPE HANGER**

SCALE: NOT TO SCALE

GENERAL NOTES:

1. WHERE NO REFERENCE TO PIPE SUPPORT SYSTEMS ARE GIVEN ON THE DRAWINGS. THE CONTRACTOR SHALL USE AN APPROPRIATE SYSTEM. SEE TABLE "B". PIPE AND CONDUIT SUPPORT SYSTEMS SHALL BE UNISTRUT, ELCEN, OR EQUAL, AND SHALL BE DESIGNED BY THE CONTRACTOR TO MEET THE MINIMUM LOAD AND SPAN REQUIREMENTS AS SPECIFIED.
2. MATERIALS FOR HANGERS, SUPPORTS AND ASSOCIATED HARDWARE SHALL BE 316 SST.
3. UNLESS OTHERWISE SPECIFIED, EXPANSION ANCHORS SHALL NOT BE USED.
4. MSS REFERS TO THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY, STANDARD PRACTICE SP58 AND SP69.
5. HANGER BRACKETS AND SUPPORT COMPONENTS MAY BE INTERCHANGED.
6. CONCRETE INSERTS IN AREA BELOW WATER SURFACE OR NORMALLY SUBJECT TO SUBMERGING SHALL BE EMBEDDED ANCHOR BOLTS OR EQUAL.
7. PROVIDE PLASTIC OR RUBBER CHANNEL END CAPS AT EXPOSED ENDS OF CHANNELS 7'-0" ABOVE FLOOR AND BELOW.
8. MAXIMUM DESIGN WEIGHTS AND LOADS SHALL BE AS SHOWN IN TABLE "A" OR AS SHOWN IN THE DETAILS ON THIS DRAWING.
9. WHEN SUPPORT PIPING REQUIRES HORIZONTAL FLEXIBILITY NORMAL TO A STEEL BEAM AXIS, USE STRUCTURAL ATTACHMENTS C AND D AS SHOWN.
10. ALL PIPING SUPPORTED BY HANGERS AND/OR STRUCTURAL ATTACHMENTS SHALL BE BRACED AGAINST HORIZONTAL, VERTICAL, AXIAL, AND LONGITUDINAL SWAY. BRACING SHALL BE CALCULATED TO RESIST SEISMIC LOADINGS AS SPECIFIED BY SMACNA AND AS INDICATED IN THE SPECIFICATIONS.
11. FITTINGS SHALL NOT BE LESS THAN MSS CL B.
12. UNLESS OTHERWISE SPECIFIED, TRAPEZE AND PIPE RACK COMPONENTS SHALL HAVE A MINIMUM THICKNESS OF 12 GAGE WITH A MAXIMUM DEFLECTION 1/240 OF THE SPAN. MINIMUM CHANNEL COMPONENT SIZE SHALL BE 1 5/8" SQUARE 316 SST AS MANUFACTURED BY SUPER STRUT, UNISTRUT, ELCEN, OR EQUAL.
13. SPACING SHALL BE AS REQUIRED BUT SHALL NOT EXCEED THOSE SPANS SHOWN IN TABLE A ON SHEET D-902.

TYPE 15 PIPE HANGER NOTES:

1. SPACING SHALL BE AS SPECIFIED IN TABLE A / D-902 ON PRIOR SHEET.
2. TOTAL LOADS ON END CONNECTIONS SHALL NOT EXCEED 1/2 THE MAXIMUM ALLOWABLE LOAD AT MID-POINT.

GMC

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GOODWYN MILLS CAWOOD, LLC
No.PEF007898
Exp.06.30.2026

1" .5" 0" 1"

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

PROCESS PIPING SUPPORT DETAILS

D-903

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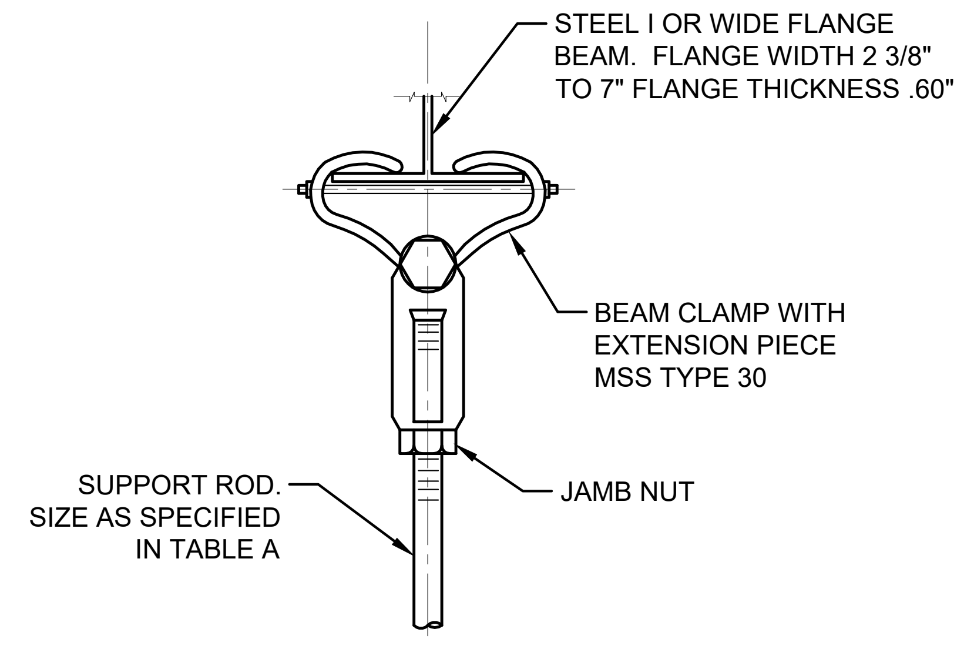
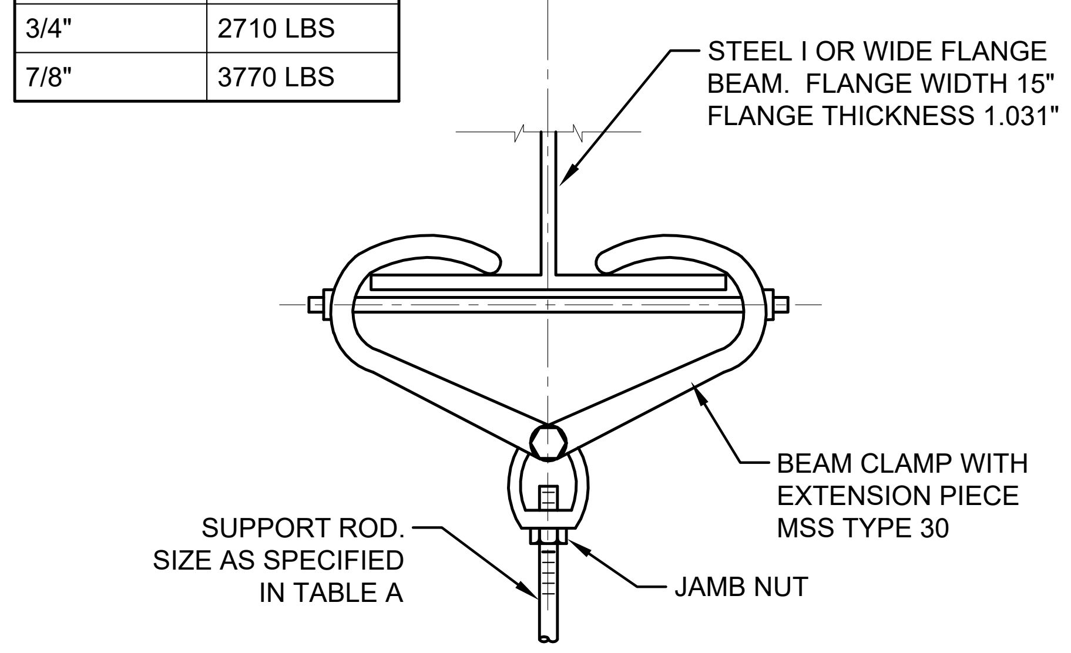
PLOTTED: Mar 19, 2025 - 2:05pm

MAXIMUM ALLOWABLE LOAD	
ROD SIZE	**LOAD**
3/8"	610 LBS
1/2"	1130 LBS
5/8"-7/8"	1365 LBS


STEEL I OR WIDE FLANGE BEAM. FLANGE WIDTH 2 3/8" TO 7" FLANGE THICKNESS .60"
BEAM CLAMP WITH EXTENSION PIECE MSS TYPE 30
SUPPORT ROD. SIZE AS SPECIFIED IN TABLE A
JAMB NUT

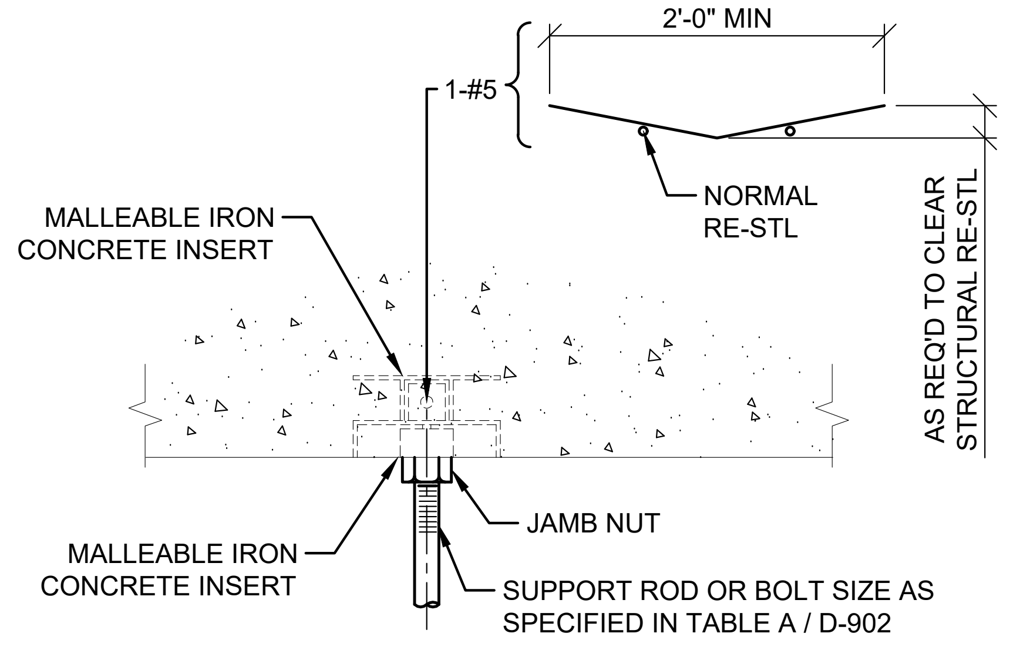
A D-904 ATTACHMENT TYPE A
SCALE: NOT TO SCALE

MAXIMUM ALLOWABLE LOAD	
ROD SIZE	**LOAD**
3/8"	610 LBS
1/2"	1130 LBS
5/8"	1810 LBS
3/4"	2710 LBS
7/8"	3770 LBS


STEEL I OR WIDE FLANGE BEAM. FLANGE WIDTH 15" FLANGE THICKNESS 1.031"
BEAM CLAMP WITH EXTENSION PIECE MSS TYPE 30
SUPPORT ROD. SIZE AS SPECIFIED IN TABLE A
JAMB NUT

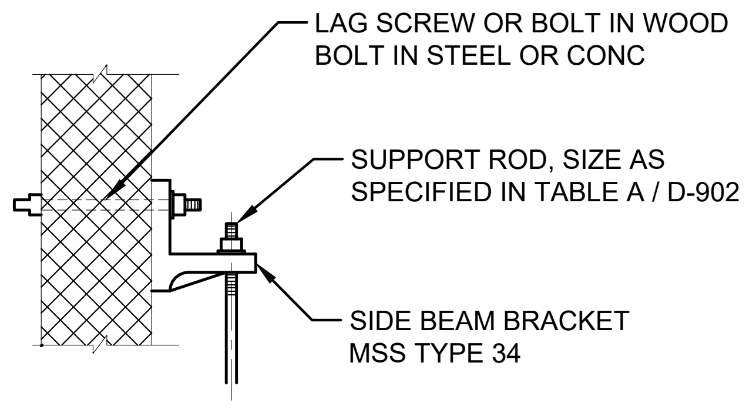
B D-904 ATTACHMENT TYPE B
SCALE: NOT TO SCALE

MAXIMUM ALLOWABLE LOAD	
ROD SIZE	**LOAD**
3/8"	610 LBS
1/2"	1130 LBS
5/8"-7/8"	1140 LBS


2'-0" MIN
1-#5
NORMAL RE-STL
AS REQ'D TO CLEAR STRUCTURAL RE-STL
MALLEABLE IRON CONCRETE INSERT
MALLEABLE IRON CONCRETE INSERT
JAMB NUT
SUPPORT ROD OR BOLT SIZE AS SPECIFIED IN TABLE A / D-902

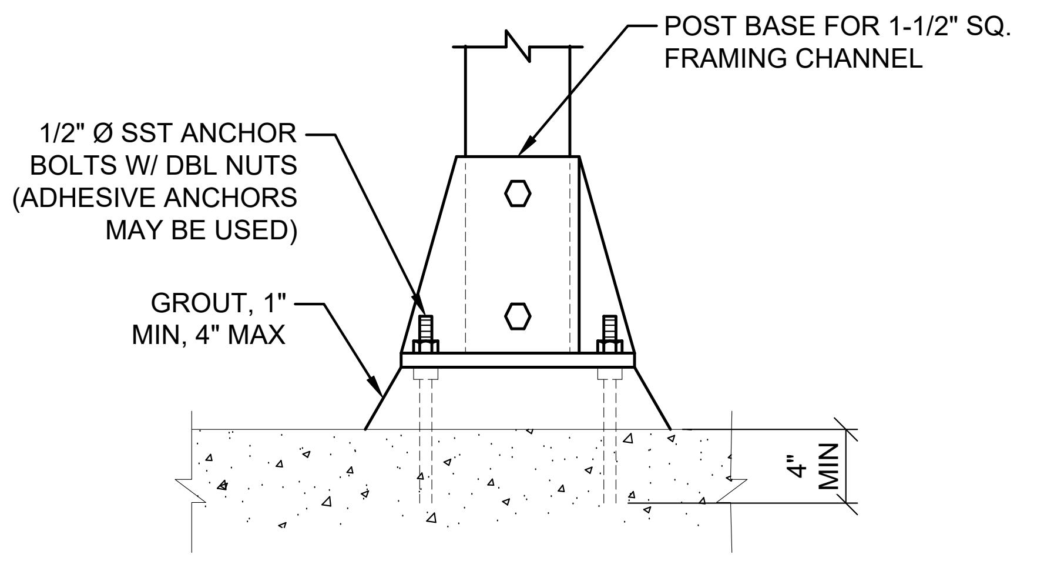
C D-904 ATTACHMENT TYPE C
SCALE: NOT TO SCALE

MAXIMUM ALLOWABLE LOAD		
ROD SIZE	**LOAD**	**LOAD CONC/STEEL**
3/8"	390 LBS	610 LBS
1/2"	640 LBS	1130 LBS
5/8"	760 LBS	1810 LBS
3/4"	830 LBS	2710 LBS
7/8"	830 LBS	3770 LBS


LAG SCREW OR BOLT IN WOOD BOLT IN STEEL OR CONC
SUPPORT ROD, SIZE AS SPECIFIED IN TABLE A / D-902
SIDE BEAM BRACKET MSS TYPE 34

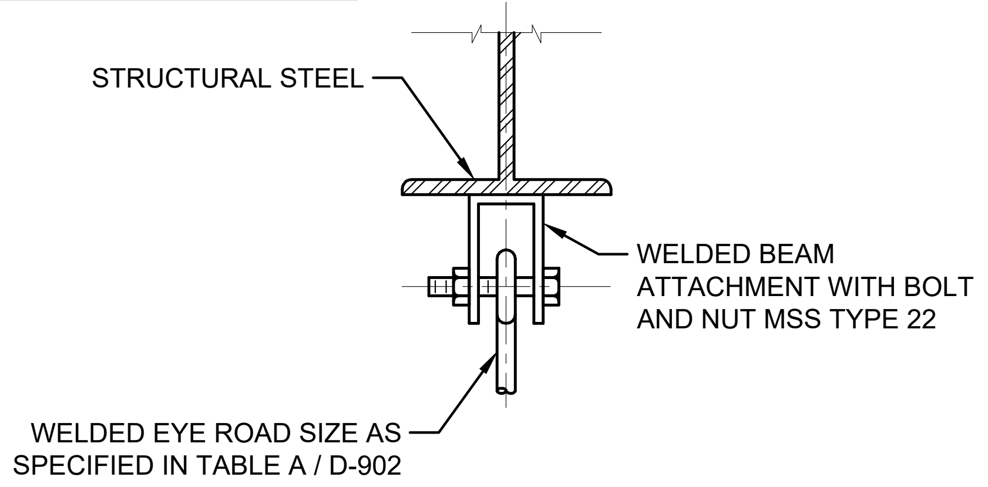
D D-904 ATTACHMENT TYPE D
SCALE: NOT TO SCALE

4" OR LESS


POST BASE FOR 1-1/2" SQ. FRAMING CHANNEL
1/2" Ø SST ANCHOR BOLTS W/ DBL NUTS (ADHESIVE ANCHORS MAY BE USED)
GROUT, 1" MIN, 4" MAX
4" MIN

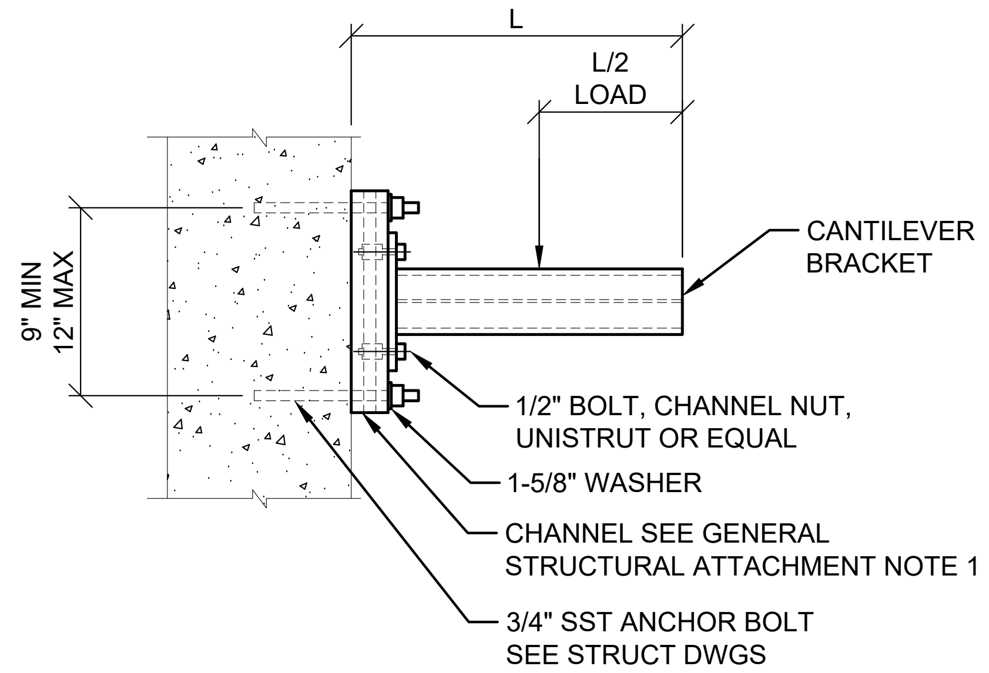
E D-904 ATTACHMENT TYPE E
SCALE: NOT TO SCALE

MAXIMUM ALLOWABLE LOAD	
ROD SIZE	**LOAD**
3/8"	610 LBS
1/2"	1130 LBS
5/8"	1810 LBS
3/4"	2710 LBS
7/8"	3770 LBS
1"	4960 LBS

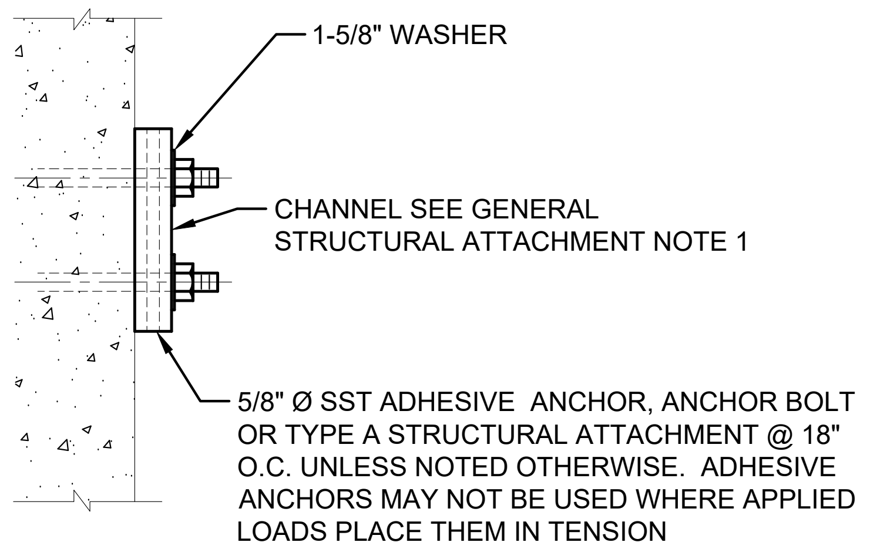

STRUCTURAL STEEL
WELDED BEAM ATTACHMENT WITH BOLT AND NUT MSS TYPE 22
WELDED EYE ROAD SIZE AS SPECIFIED IN TABLE A / D-902

F D-904 ATTACHMENT TYPE F
SCALE: NOT TO SCALE

CAPACITY AT MID-POINT	
L	**LOAD**
12"	2000 LBS
18"	1300 LBS
24"	1000 LBS
30"	800 LBS

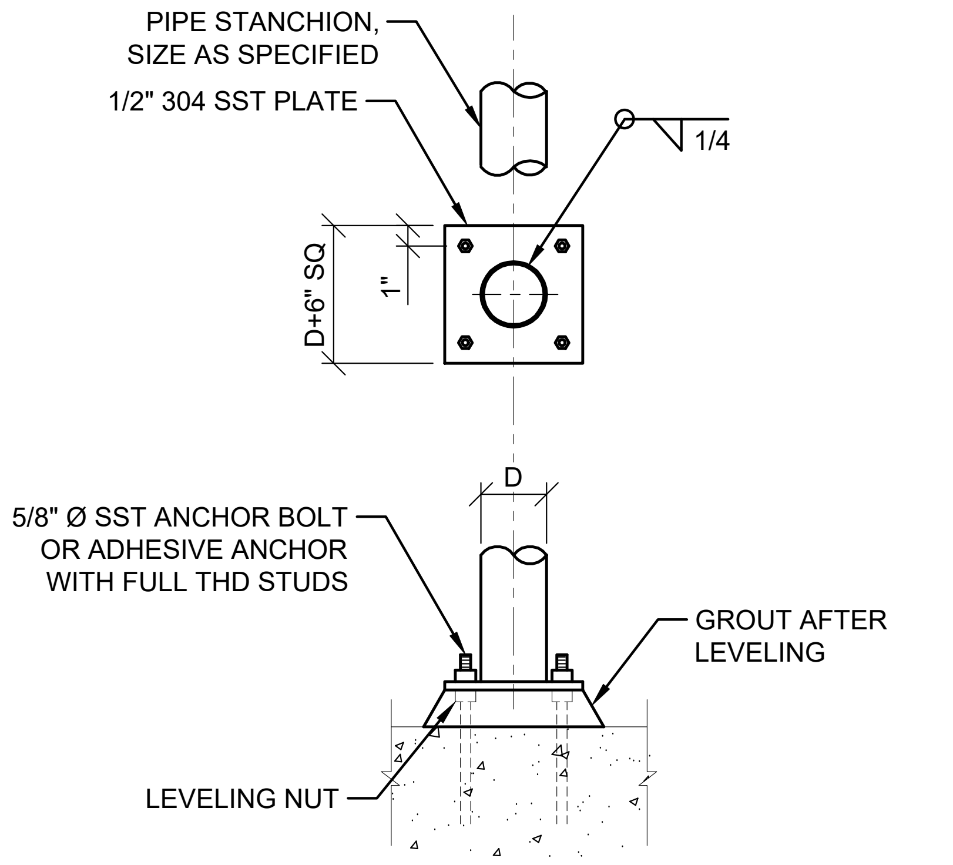

L
L/2
LOAD
CANTILEVER BRACKET
9" MIN
12" MAX
1/2" BOLT, CHANNEL NUT, UNISTRUT OR EQUAL
1-5/8" WASHER
CHANNEL SEE GENERAL STRUCTURAL ATTACHMENT NOTE 1
3/4" SST ANCHOR BOLT SEE STRUCT DWGS

G D-904 ATTACHMENT TYPE G
SCALE: NOT TO SCALE

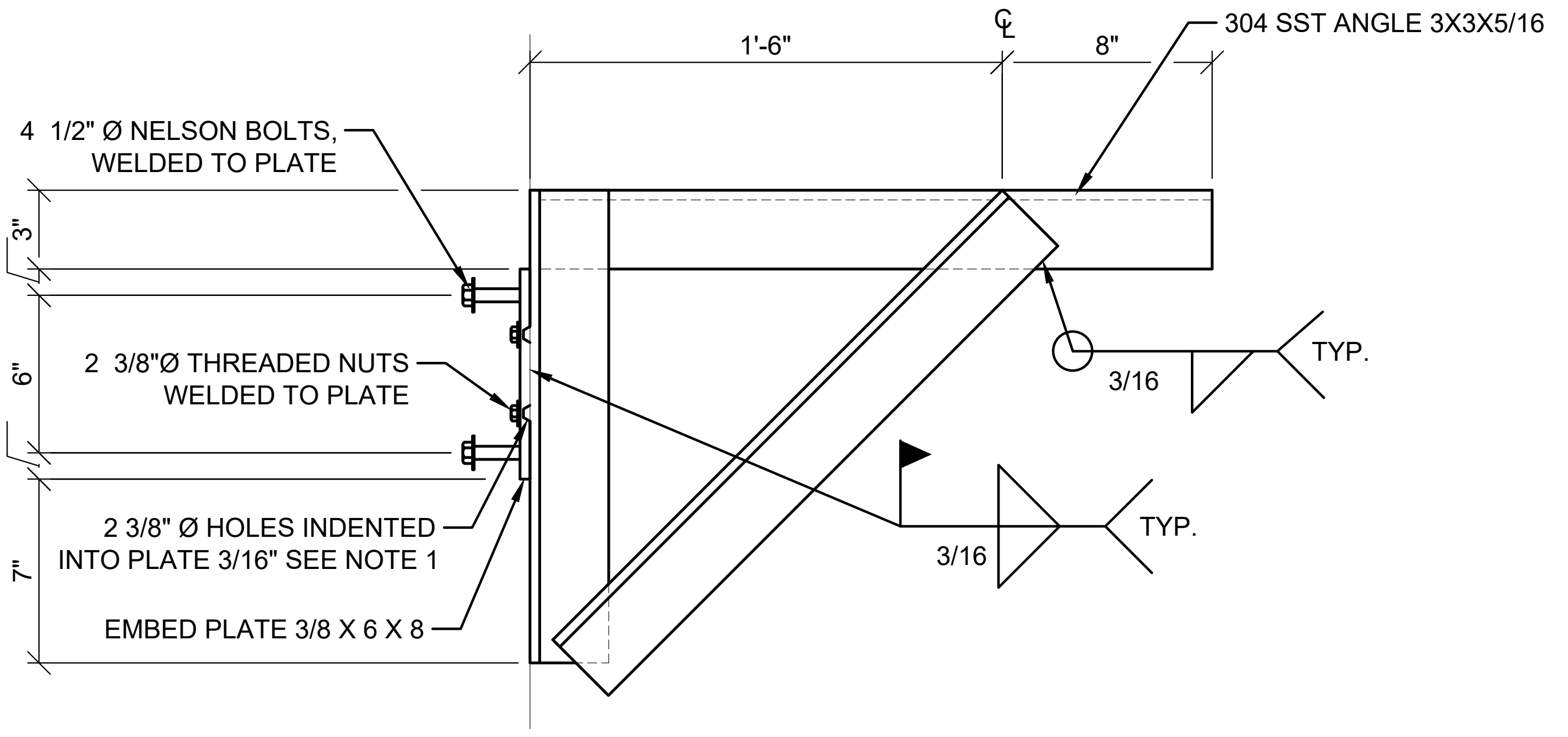

1-5/8" WASHER
CHANNEL SEE GENERAL STRUCTURAL ATTACHMENT NOTE 1
5/8" Ø SST ADHESIVE ANCHOR, ANCHOR BOLT OR TYPE A STRUCTURAL ATTACHMENT @ 18" O.C. UNLESS NOTED OTHERWISE. ADHESIVE ANCHORS MAY NOT BE USED WHERE APPLIED LOADS PLACE THEM IN TENSION

H D-904 ATTACHMENT TYPE H
SCALE: NOT TO SCALE

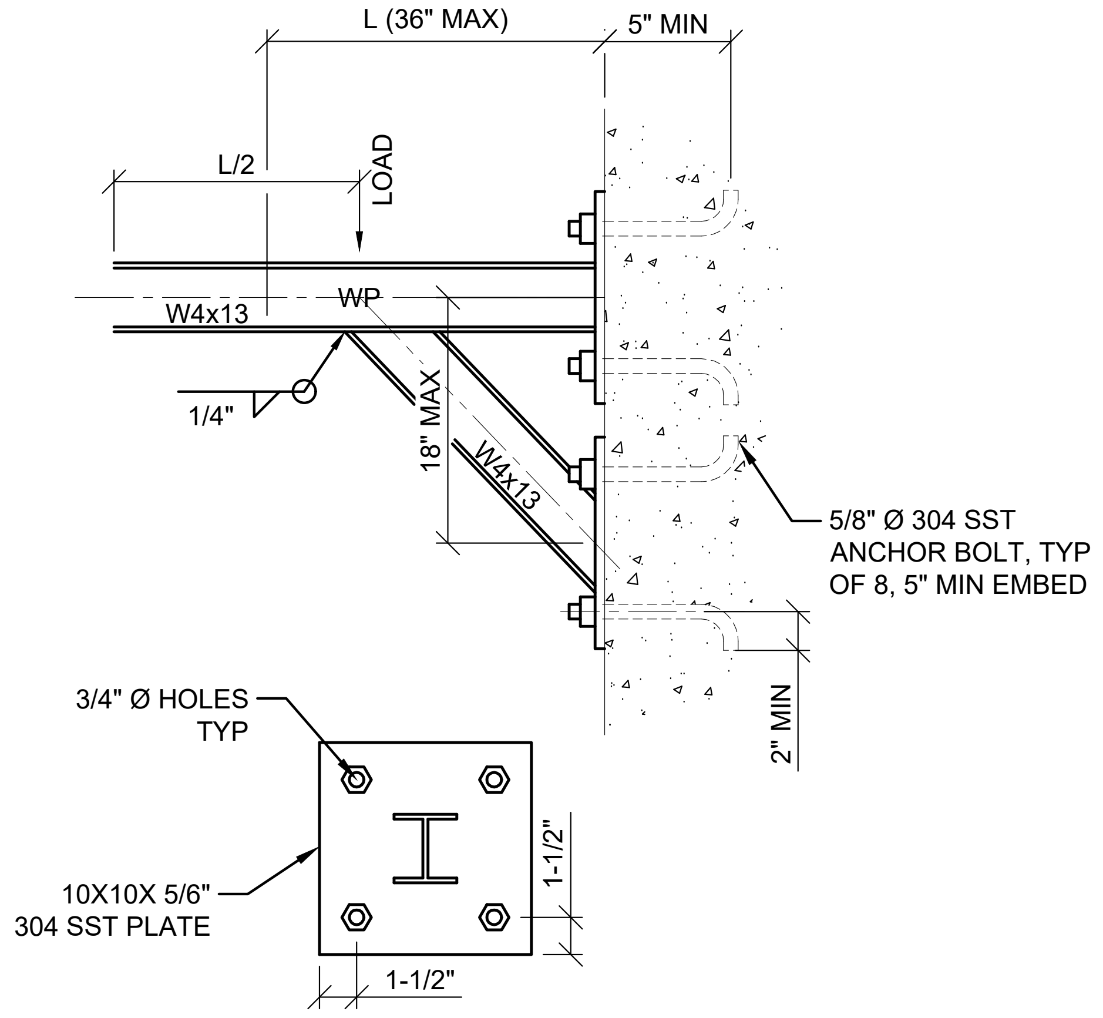
6" THROUGH 30" PIPE


PIPE STANCHION, SIZE AS SPECIFIED
1/2" 304 SST PLATE
1/4
D+6" SQ.
1"
D
5/8" Ø SST ANCHOR BOLT OR ADHESIVE ANCHOR WITH FULL THD STUDS
GROUT AFTER LEVELING
LEVELING NUT

I D-904 ATTACHMENT TYPE I
SCALE: NOT TO SCALE


1'-6"
℄
8"
304 SST ANGLE 3X3X5/16
4 1/2" Ø NELSON BOLTS, WELDED TO PLATE
1"
3"
6"
1"
7"
2 3/8"Ø THREADED NUTS WELDED TO PLATE
2 3/8" Ø HOLES INDENTED INTO PLATE 3/16" SEE NOTE 1
EMBED PLATE 3/8 X 6 X 8
3/16
TYP.
3/16
TYP.

J D-904 ATTACHMENT TYPE J
SCALE: NOT TO SCALE



WALL PLATE ELEVATION

K D-904 ATTACHMENT TYPE K
SCALE: NOT TO SCALE

GENERAL NOTES:

1. FOR EXISTING CONCRETE, NEW PRECAST CONCRETE OR NEW CONCRETE MASONRY UNITS USE SURFACE MOUNT CHANNEL UNISTRUT P-1000 OR EQUAL. FOR ALL POURED-IN-PLACE CONCRETE, USED EMBEDDED CONCRETE INSERT CHANNELS, UNISTRUT P3200 OR EQUAL AND DELETE THE SURFACE MOUNT ANCHOR BOLTS.
2. SPACING SHALL BE AS REQUIRED BUT SHALL NOT EXCEED THOSE SPANS SHOWN IN TABLE A ON SHEET D-902.

TYPE G ATTACHMENT NOTES

1. BRACKET MAY BE USED WITH VARIOUS HANGER, ROLLER, GUIDE AND CLAMP ASSEMBLIES

TYPE H ATTACHMENT NOTES

1. BRACKET MAY BE WALL OR CEILING MOUNTED, AND MAY BE USED WITH VARIOUS HANGER, GUIDE, RACK, OR ANCHOR, AND SWAY BRACE ASSEMBLIES
2. MAXIMUM LOAD CAPACITY SHALL BE AS RECOMMENDED BY THE CHANNEL MANUFACTURER.

TYPE J ATTACHMENT NOTES

1. PROVIDE FLAT HEADED BOLTS 3/8"Øx1-1/2"L SCREWED IN PLACE TO CREATE FLUSH SURFACE WITH PLATE, PRIOR TO POURING CONCRETE. THESE BOLTS ARE TO BE REMOVED AND REPLACED WITH 2" L BOLTS AFTER CURING FOR SUPPORT ATTACHMENT.

TYPE K ATTACHMENT NOTES

1. STRUCTURAL ATTACHMENTS MAY BE USED WITH VARIOUS HANGER, GUIDE AND ANCHOR ASSEMBLIES.

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Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

PROCESS PIPING STRUCTURAL ATTACHMENT DETAILS

D-904

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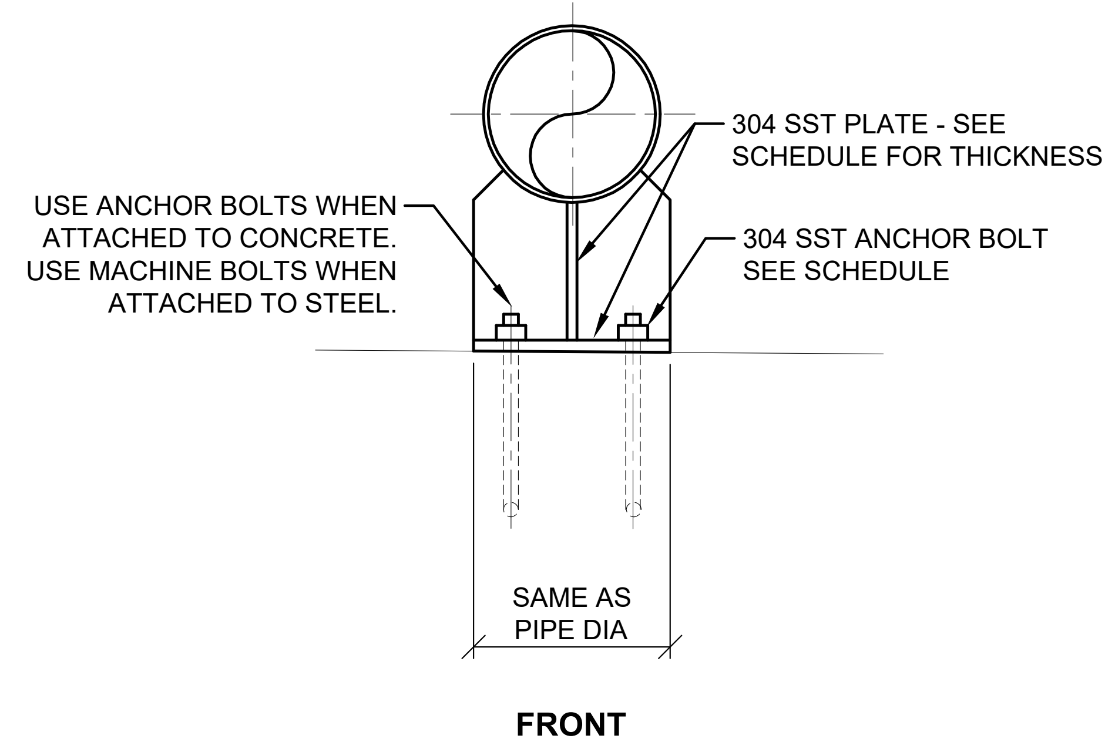
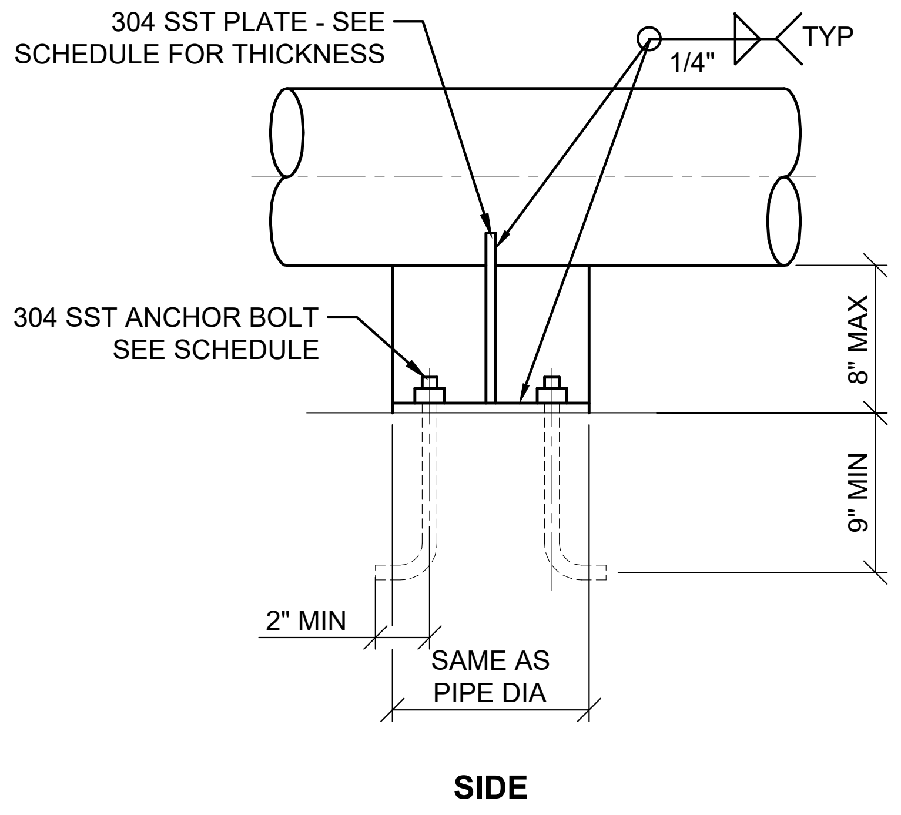
PLOTTED: Mar 19, 2025 - 2:05pm

COMPONENT SCHEDULE		
PIPE SIZE	BOLT SIZE	PL THK
2" & 2-1/2"	3/8"	1/4"
3" TO 6"	1/2"	3/8"
8" TO 12"	5/8"	3/8"
14" TO 16"	3/4"	1/2"
18" TO 20"	7/8"	5/8"


USE ANCHOR BOLTS WHEN ATTACHED TO CONCRETE. USE MACHINE BOLTS WHEN ATTACHED TO STEEL.
304 SST PLATE - SEE SCHEDULE FOR THICKNESS
304 SST ANCHOR BOLT SEE SCHEDULE
SAME AS PIPE DIA

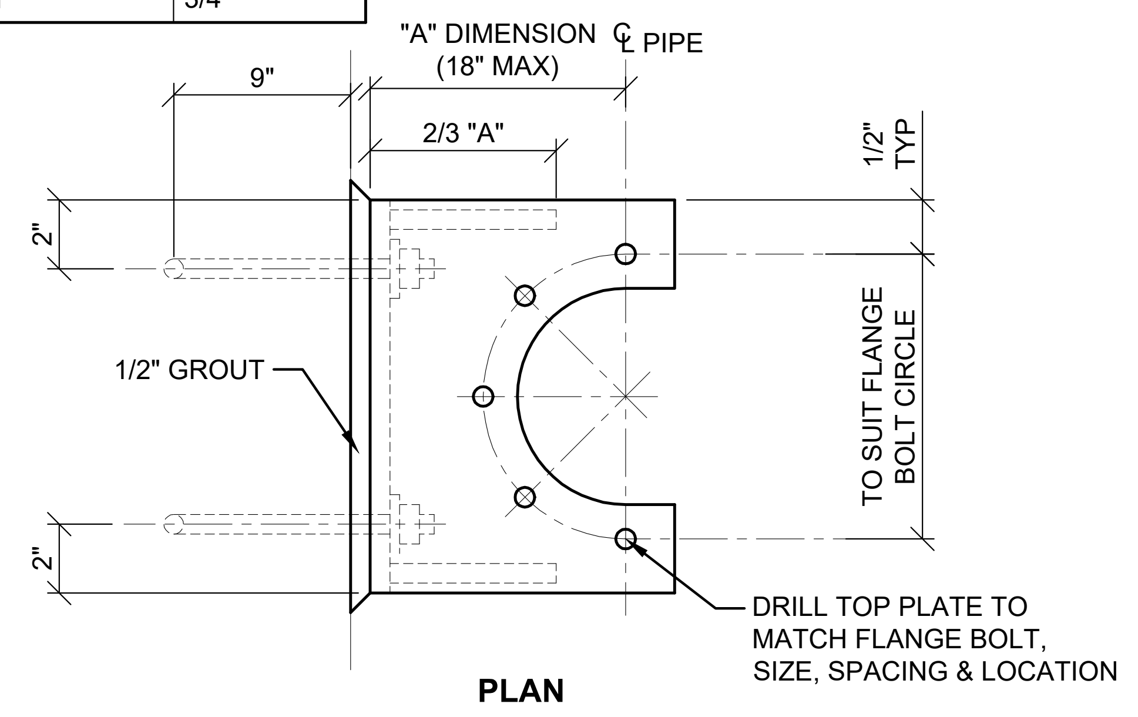
FRONT


304 SST PLATE - SEE SCHEDULE FOR THICKNESS
1/4"
TYP
304 SST ANCHOR BOLT SEE SCHEDULE
8" MAX
9" MIN
2" MIN
SAME AS PIPE DIA

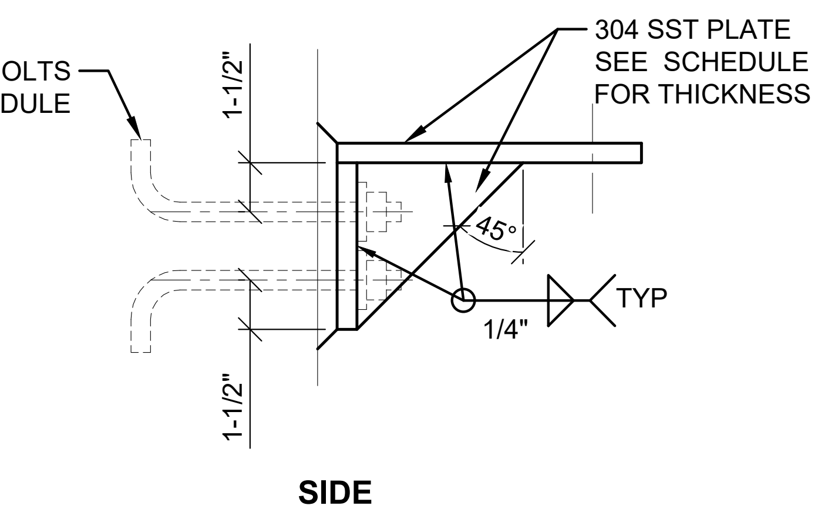
SIDE

L ATTACHMENT TYPE L
D-905
SCALE: NOT TO SCALE

COMPONENT SCHEDULE		
PIPE SIZE	BOLT SIZE	PL THK
2" & 2-1/2"	3/8"	1/4"
3" TO 6"	1/2"	3/8"
8" TO 12"	5/8"	3/8"
14" TO 16"	3/4"	1/2"
18" TO 20"	7/8"	5/8"
24" TO 30"	1"	3/4"


"A" DIMENSION (18" MAX)
℄ PIPE
9"
2/3 "A"
1/2" TYP
2"
2"
1/2" GROUT
TO SUIT FLANGE BOLT CIRCLE
DRILL TOP PLATE TO MATCH FLANGE BOLT, SIZE, SPACING & LOCATION

PLAN

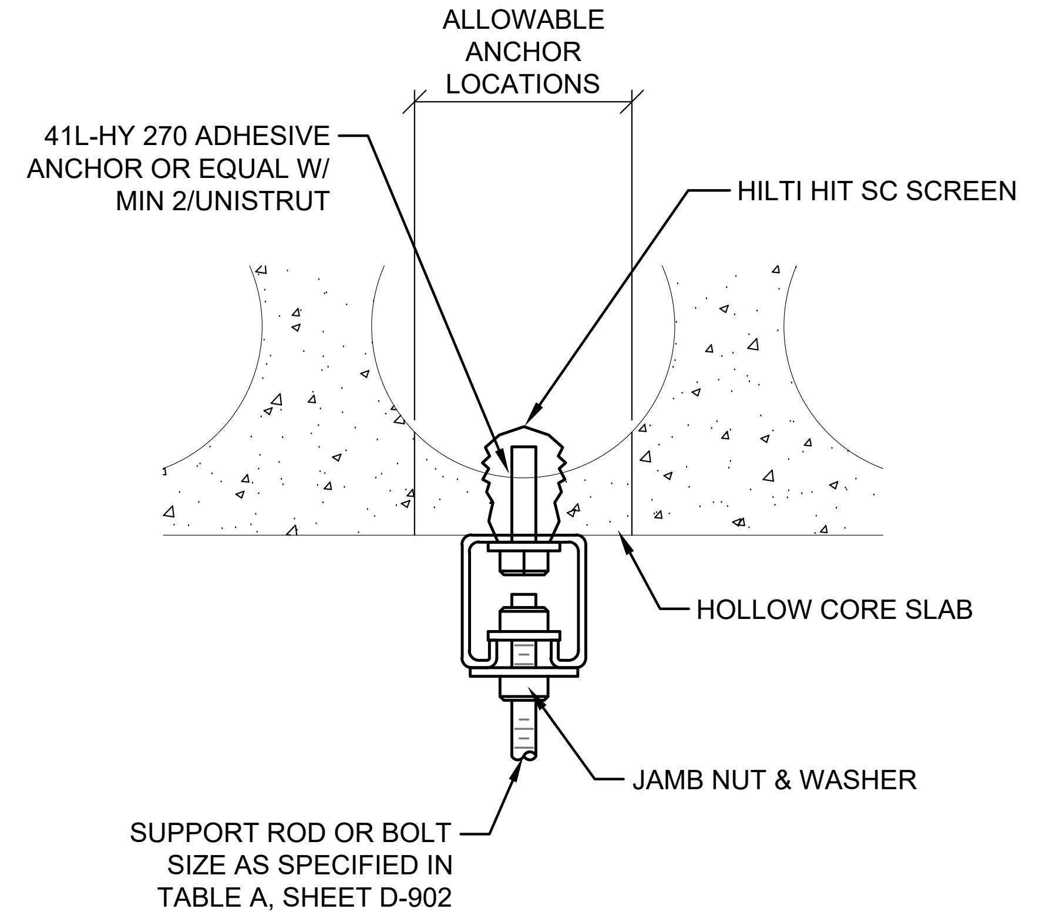

304 SST ANCHOR BOLTS SEE SCHEDULE
304 SST PLATE SEE SCHEDULE FOR THICKNESS
1-1/2"
1-1/2"
45°
1/4"
TYP

SIDE

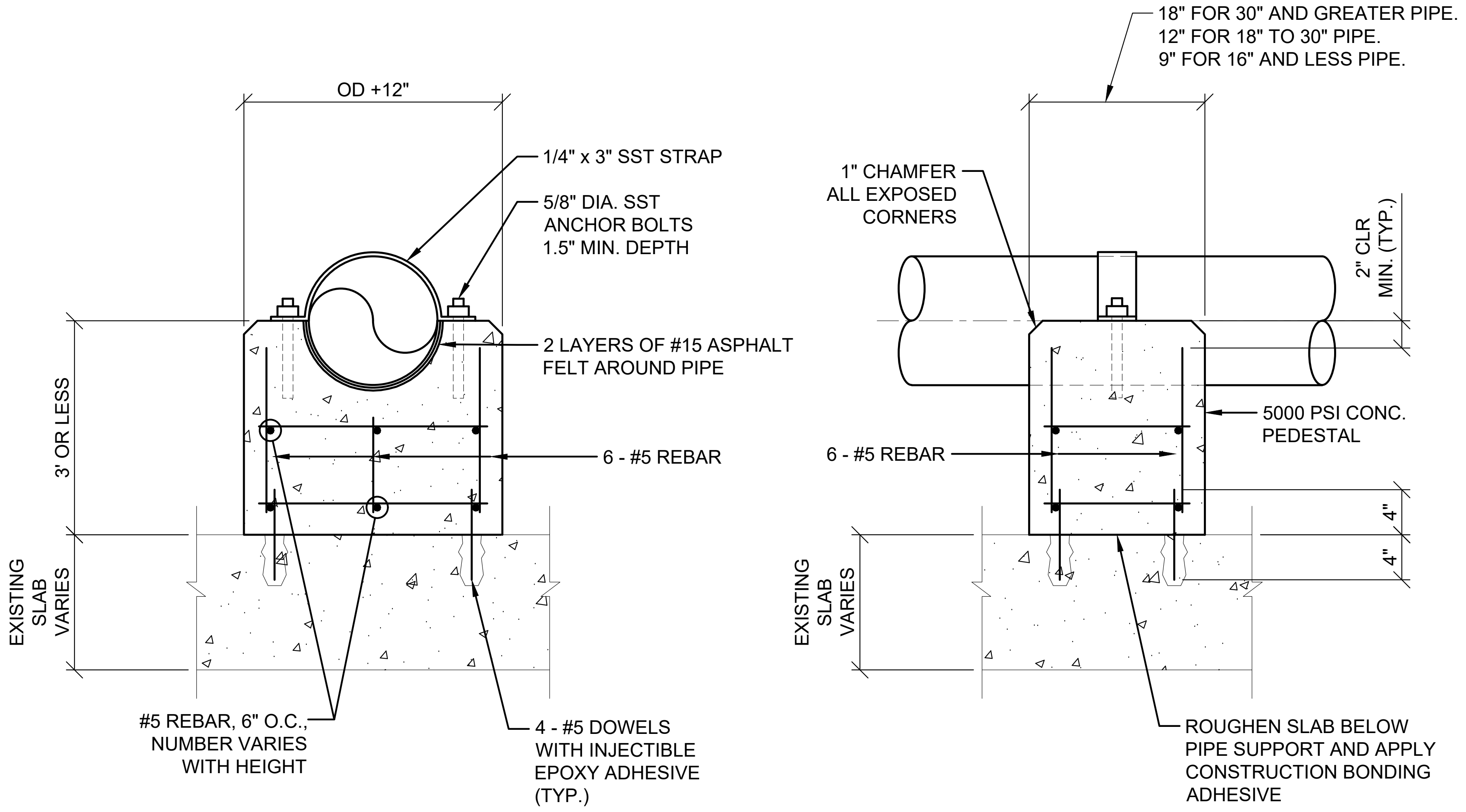
M ATTACHMENT TYPE M
D-905
SCALE: NOT TO SCALE

GENERAL NOTES:

1. FOR EXISTING CONCRETE, NEW PRECAST CONCRETE OR NEW CONCRETE MASONRY UNITS USE SURFACE MOUNT CHANNEL UNISTRUT P-1000 OR EQUAL. FOR ALL POURED-IN-PLACE CONCRETE, USED EMBEDDED CONCRETE INSERT CHANNELS, UNISTRUT P3200 OR EQUAL AND DELETE THE SURFACE MOUNT ANCHOR BOLTS.
2. SPACING SHALL BE AS REQUIRED BUT SHALL NOT EXCEED THOSE SPANS SHOWN IN TABLE A ON SHEET D-902.


ALLOWABLE ANCHOR LOCATIONS
41L-HY 270 ADHESIVE ANCHOR OR EQUAL W/ MIN 2/UNISTRUT
HILTI HIT SC SCREEN
HOLLOW CORE SLAB
JAMB NUT & WASHER
SUPPORT ROD OR BOLT SIZE AS SPECIFIED IN TABLE A, SHEET D-902

N ATTACHMENT TYPE N
D-905
SCALE: NOT TO SCALE


OD +12"
1/4" x 3" SST STRAP
5/8" DIA. SST ANCHOR BOLTS 1.5" MIN. DEPTH
2 LAYERS OF #15 ASPHALT FELT AROUND PIPE
3' OR LESS
6 - #5 REBAR
EXISTING SLAB VARIES
#5 REBAR, 6" O.C., NUMBER VARIES WITH HEIGHT
4 - #5 DOWELS WITH INJECTIBLE EPOXY ADHESIVE (TYP.)
18" FOR 30" AND GREATER PIPE. 12" FOR 18" TO 30" PIPE. 9" FOR 16" AND LESS PIPE.
1" CHAMFER ALL EXPOSED CORNERS
2" CLR MIN. (TYP.)
5000 PSI CONC. PEDESTAL
6 - #5 REBAR
4"
4"
EXISTING SLAB VARIES
ROUGHEN SLAB BELOW PIPE SUPPORT AND APPLY CONSTRUCTION BONDING ADHESIVE

O TYPE 18 PIPE SUPPORT
D-905
SCALE: NOT TO SCALE

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COMMERCE 2.0 MGD
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OMMERCE, GA

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PROCESS PIPING STRUCTURAL ATTACHMENT DETAILS

D-905

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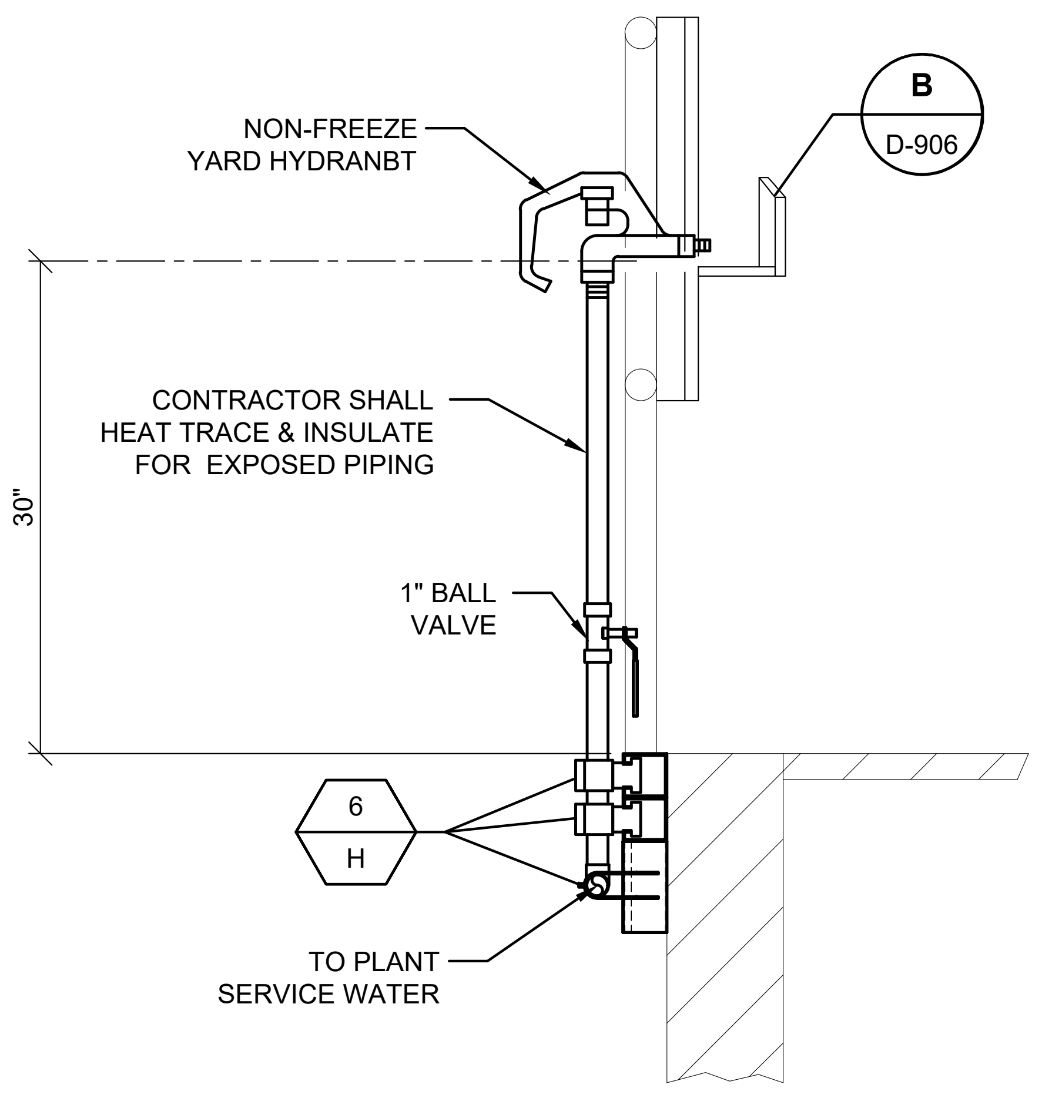
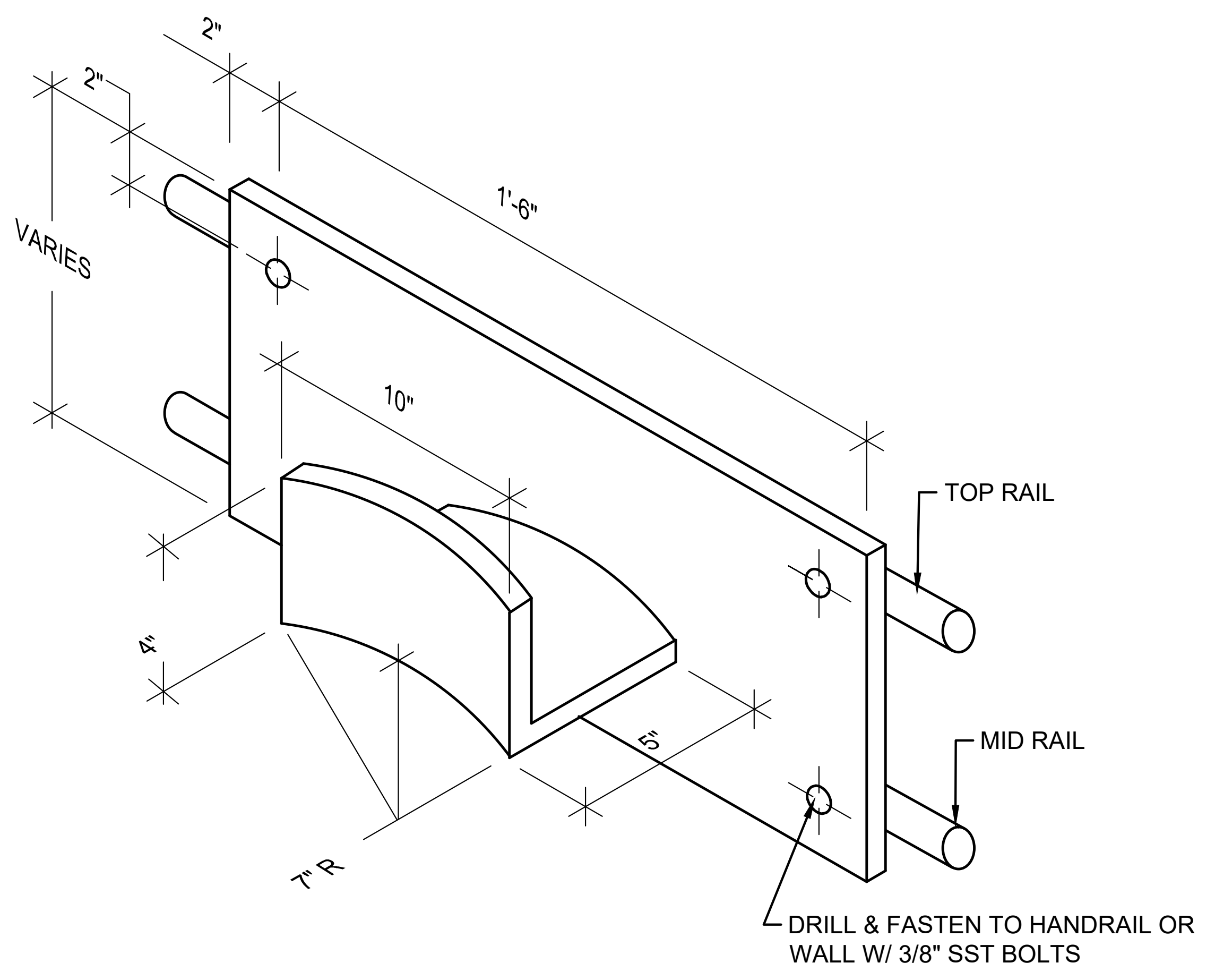


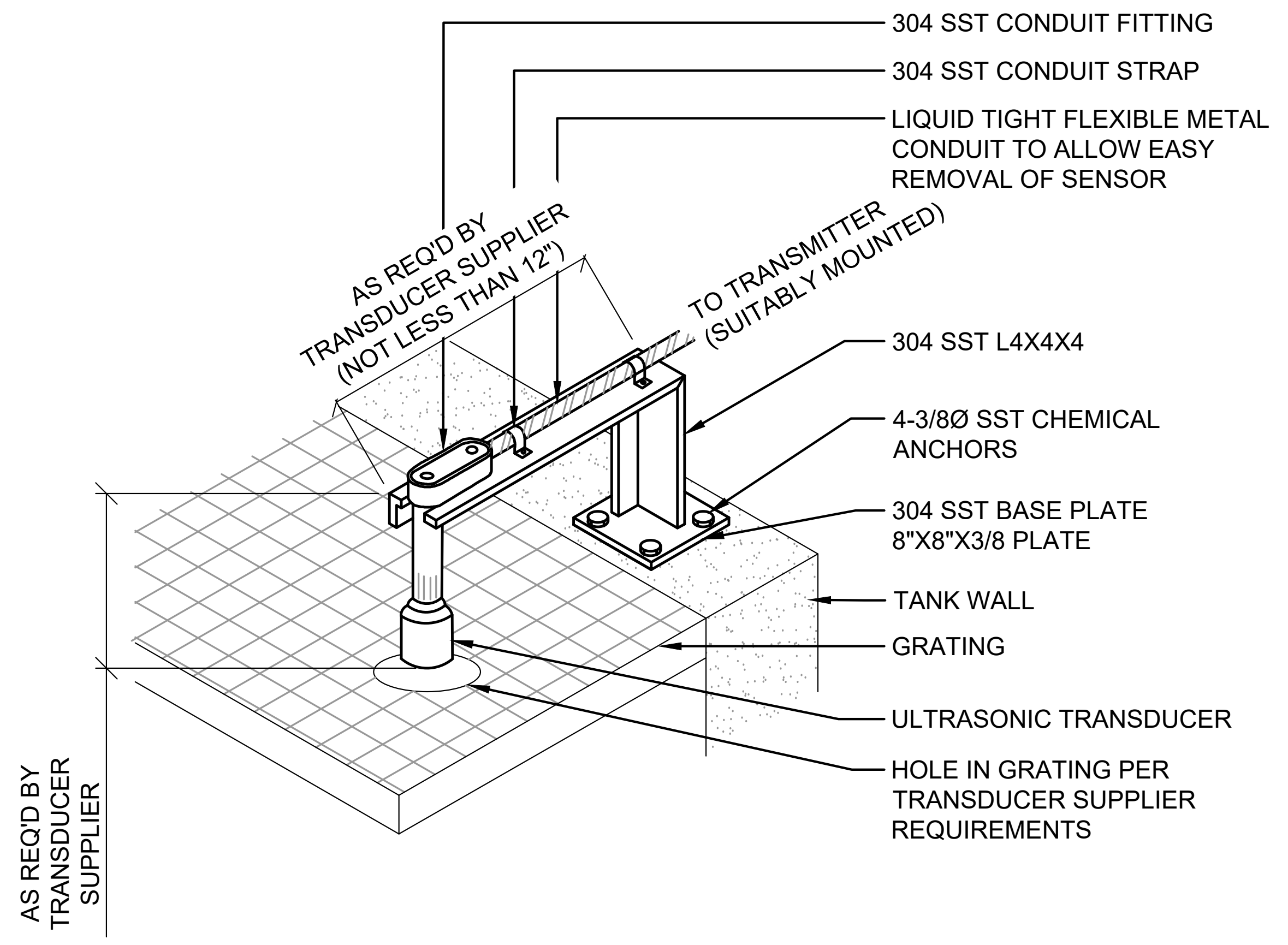
A D-906 **YARD HYDRANT (RAILING MOUNTED)**

SCALE: NOT TO SCALE



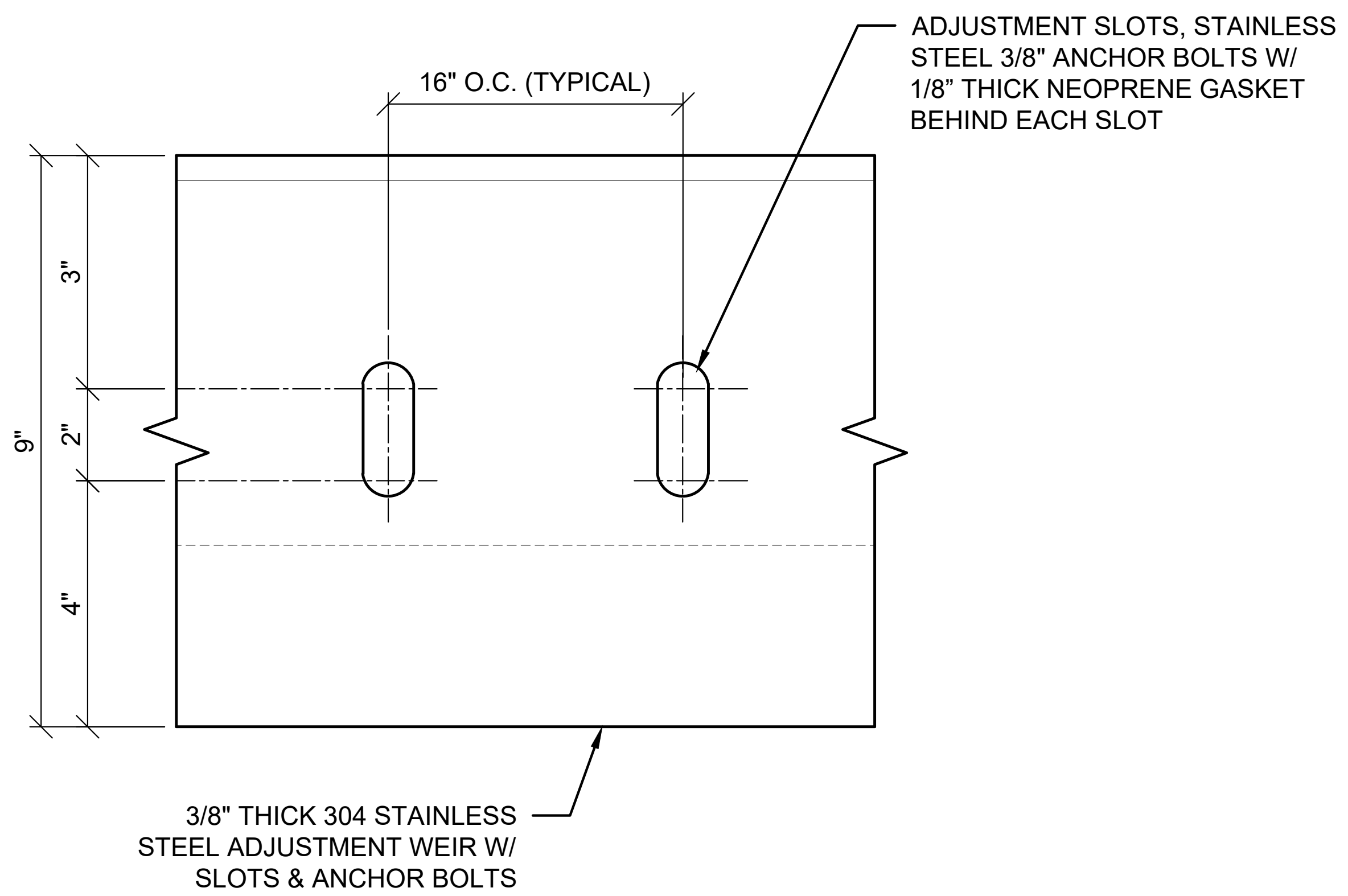
B D-906 **RAIL MOUNTED HOSE RACK**

SCALE: NOT TO SCALE

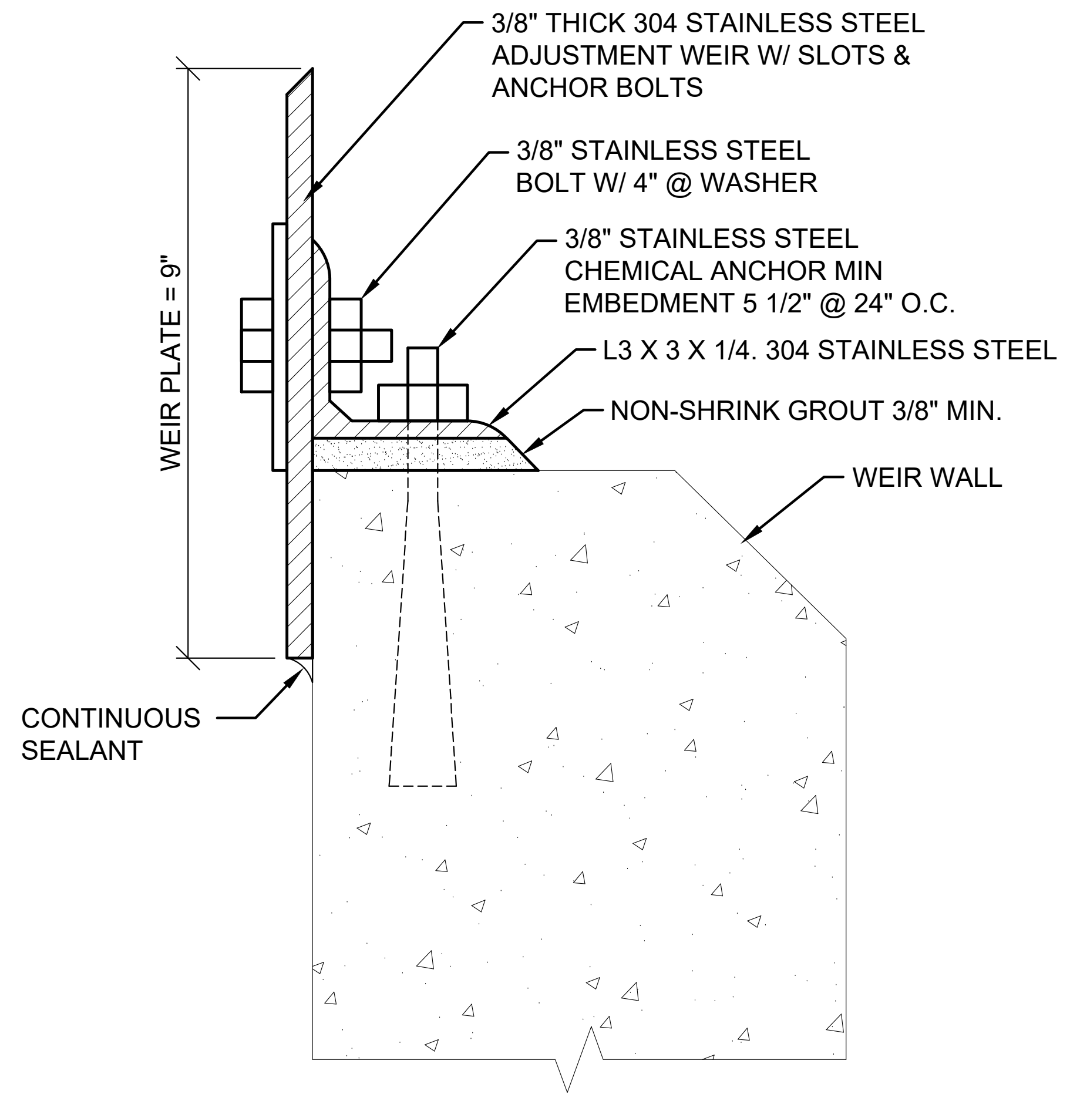


C D-907 **ULTRASONIC LEVEL TRANSDUCER (LEVL 2)**

SCALE: NOT TO SCALE



ELEVATION


3/8" THICK 304 STAINLESS STEEL
ADJUSTMENT WEIR W/ SLOTS &
ANCHOR BOLTS
3/8" STAINLESS STEEL
BOLT W/ 4" @ WASHER
3/8" STAINLESS STEEL
CHEMICAL ANCHOR MIN
EMBEDMENT 5 1/2" @ 24" O.C.
L3 X 3 X 1/4. 304 STAINLESS STEEL
NON-SHRINK GROUT 3/8" MIN.
WEIR WALL
WEIR PLATE = 9"
CONTINUOUS
SEALANT

SECTION

D D-906 **ADJUSTABLE WEIR**

SCALE: NOT TO SCALE

STANDARD FEATURES

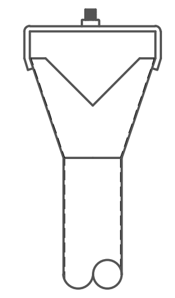
- •STAINLESS STEEL CONSTRUCTION
- •NON-RISING DESIGN
- •16" (406 MM) DIAMETER ALUMINUM HANDWHEEL
- •Ø1 1/8 (Ø29 MM) S.STL. TRIPLE LEAD ACME ROD
- •BRASS LIFTING NUT
- •POLYMER BEARING PADS
- •150# S.STL. COMPANION FLANGE
- •1/4" (7 MM) THICK NEOPRENE WIPE GASKET
- •3 YEAR GUARANTEE

REQUIRED INFORMATION

- •BASE PLATE ELEVATION
- •OFFSET
- •HIGH WATER ELEVATION
- •SLIDE PIPE MODEL (501, 502, 503)
- •LENGTH OF TRAVEL
- •TOP OF RISER PIPE ELEVATION
- •EXISTING RISER PIPE SIZE

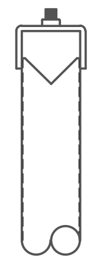
MODEL 502

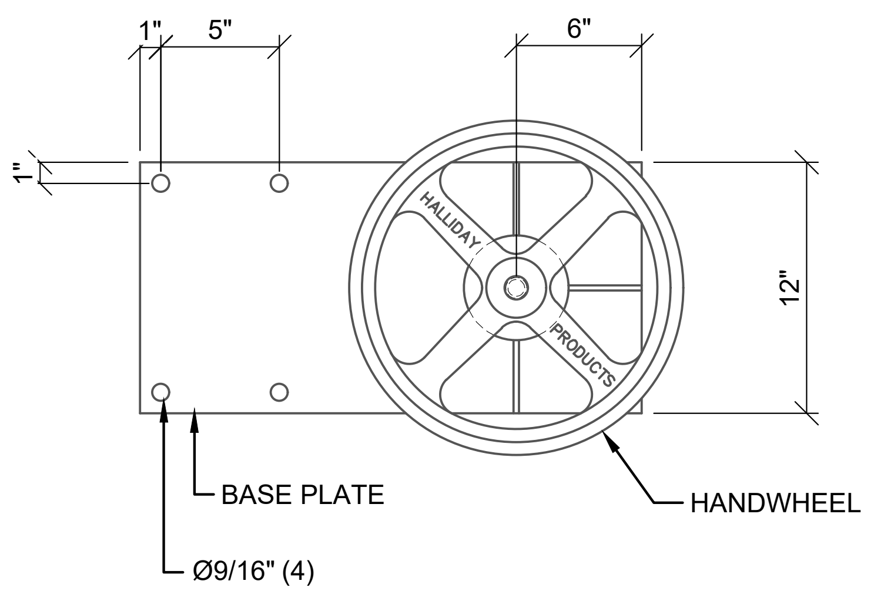
SLIDE PIPE WITH CONE "V" WEIR TOP

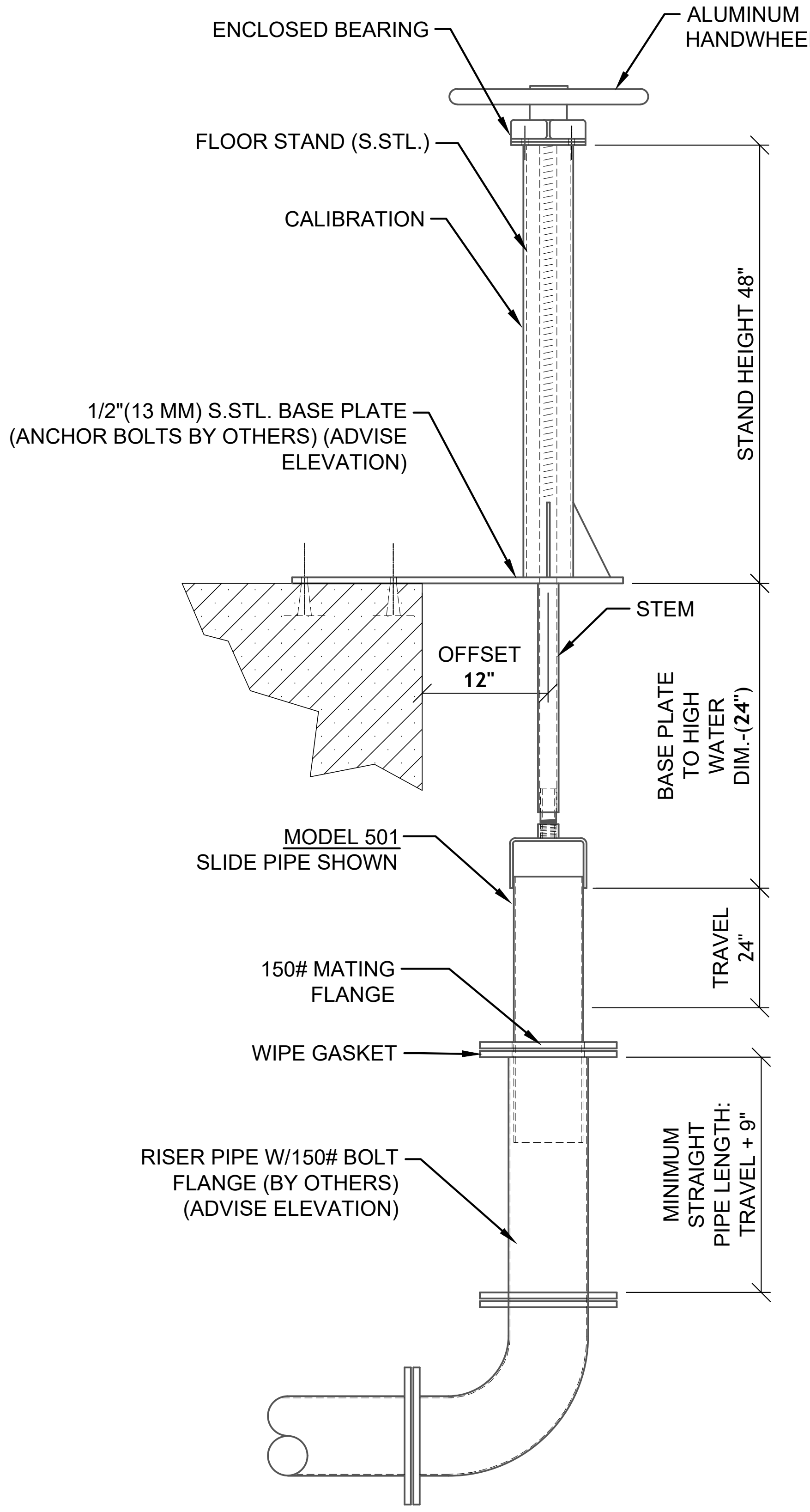


MODEL 503

SLIDE PIPE WITH "V" WEIR TOP







E D-906 **TELESCOPING VALVE**

SCALE: NOT TO SCALE

GMC

6120 Powers Ferry Road NW, Suite 200
Atlanta, GA 30339
T 770.952.2481

STATE OF GEORGIA
GOODWYN MILLS CAWOOD, LLC
No.PEF007898
Exp.06.30.2026
CERTIFICATE OF AUTHORIZATION

1" .5" 0" 1"

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Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

**PROCESS
DETAILS**

D-906

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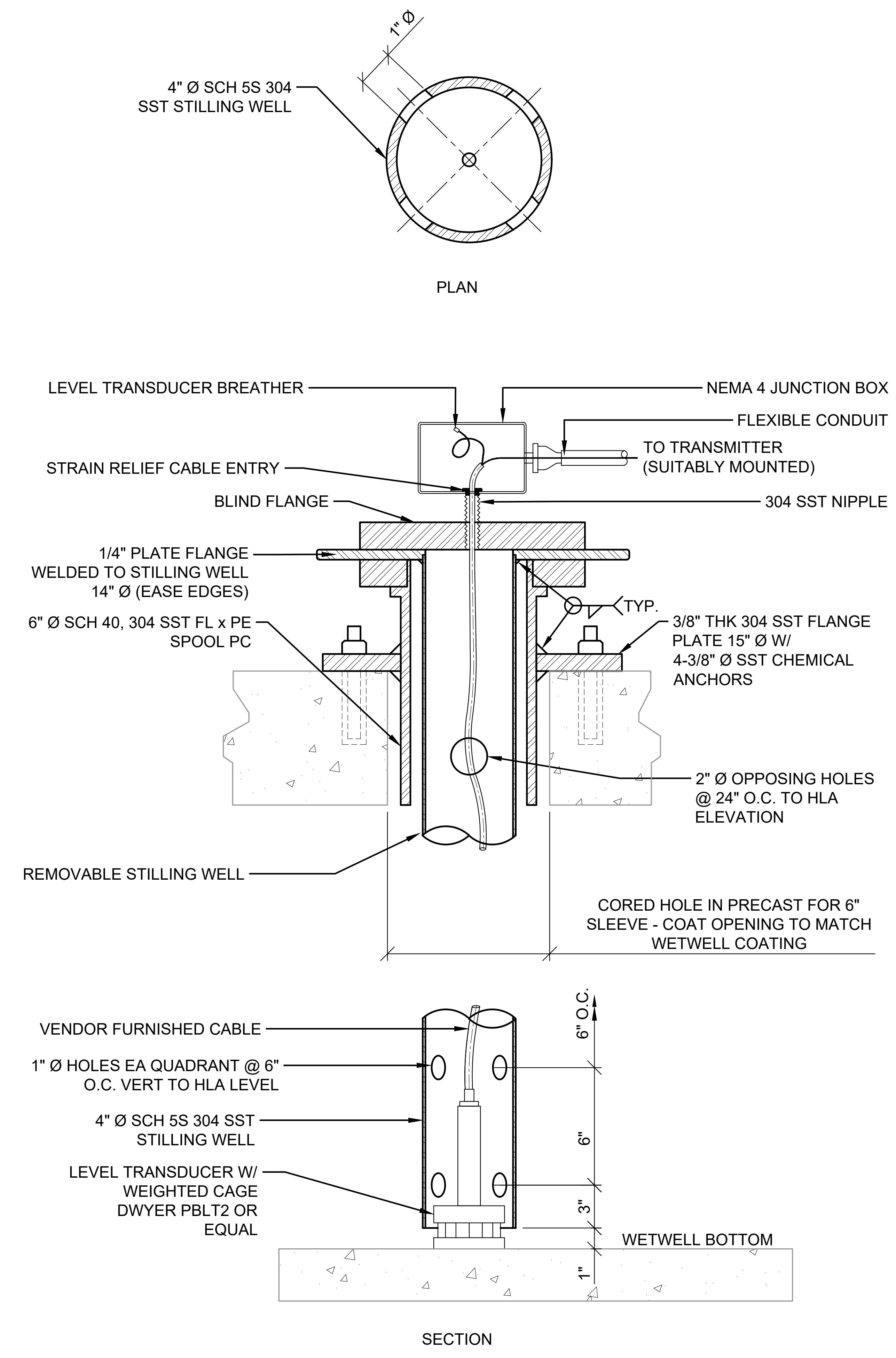

F
D-907

SUBMERSIBLE LEVEL TRANSDUCER

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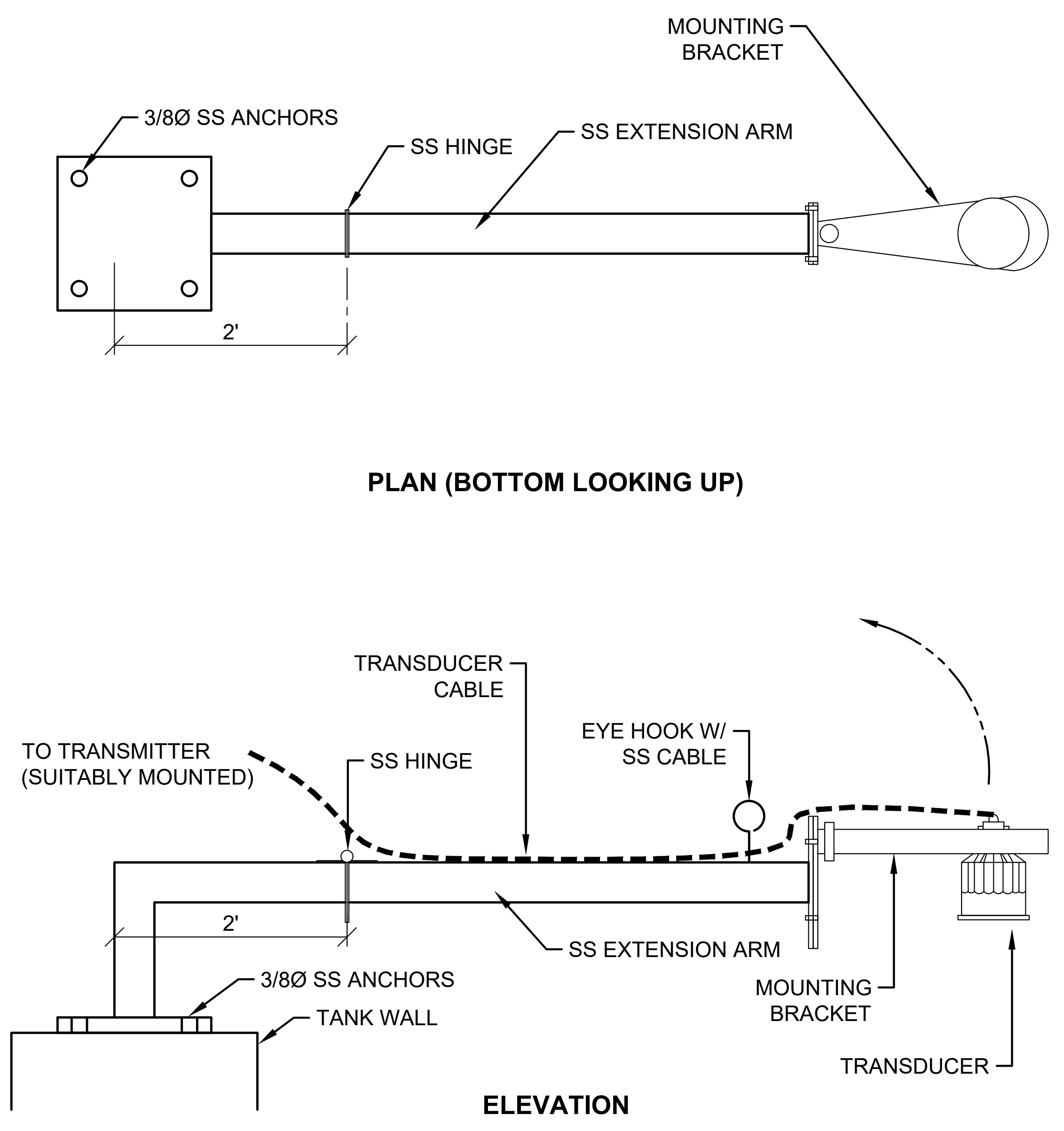
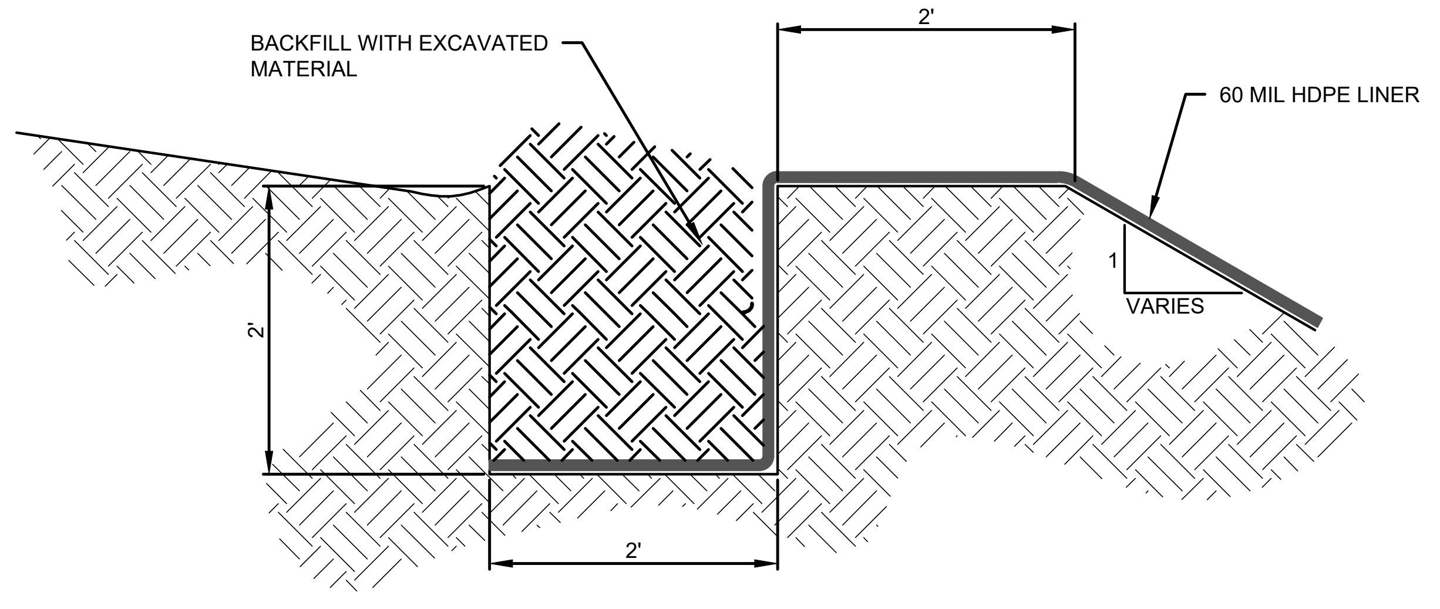


G
I-901

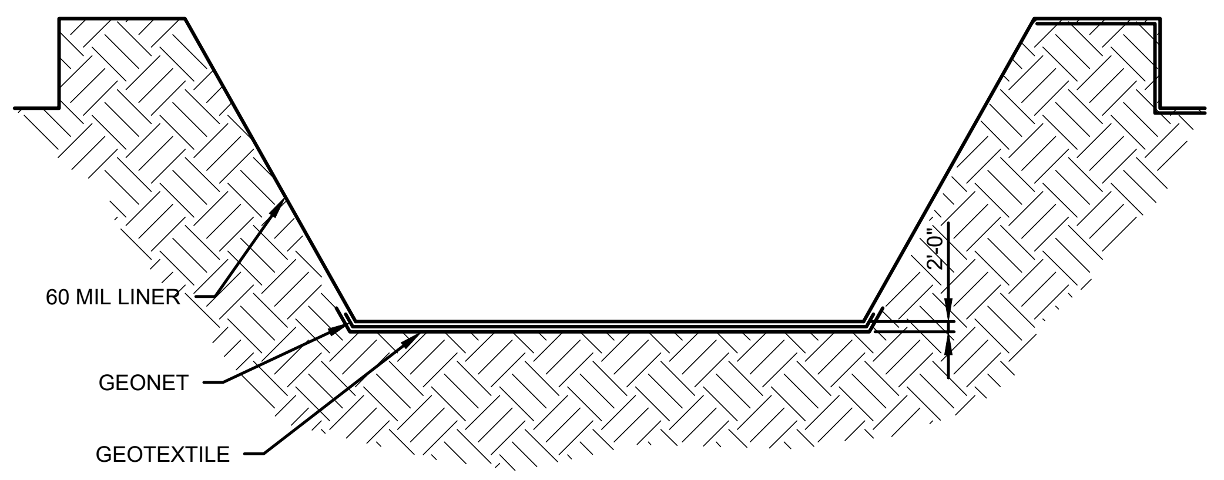
LEVEL TRANSDUCER W/ HINGED EXTENSION ARM

SCALE: NOT TO SCALE



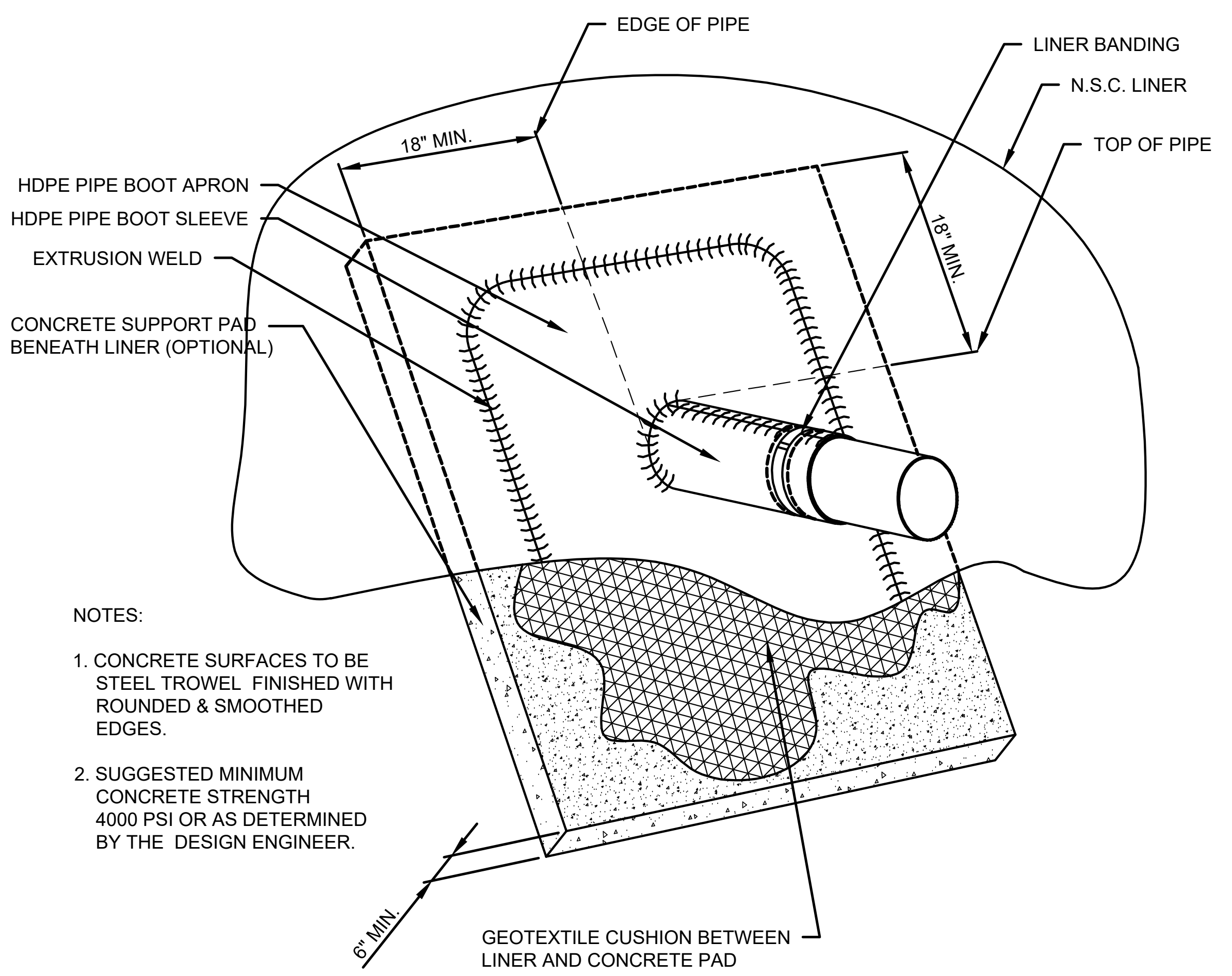
DETAIL- EQ LINER ANCHOR TRENCH

SCALE: NTS



DETAIL- EQ LINER LAYER SECTION

SCALE: NTS



NOTES:

1. CONCRETE SURFACES TO BE STEEL TROWEL FINISHED WITH ROUNDED & SMOOTHED EDGES.
2. SUGGESTED MINIMUM CONCRETE STRENGTH 4000 PSI OR AS DETERMINED BY THE DESIGN ENGINEER.

DETAIL- EQ PIPE PENETRATION/BOOT

SCALE: NTS

GMC

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Engineer: GS
Designer: GS
Drawn By:

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

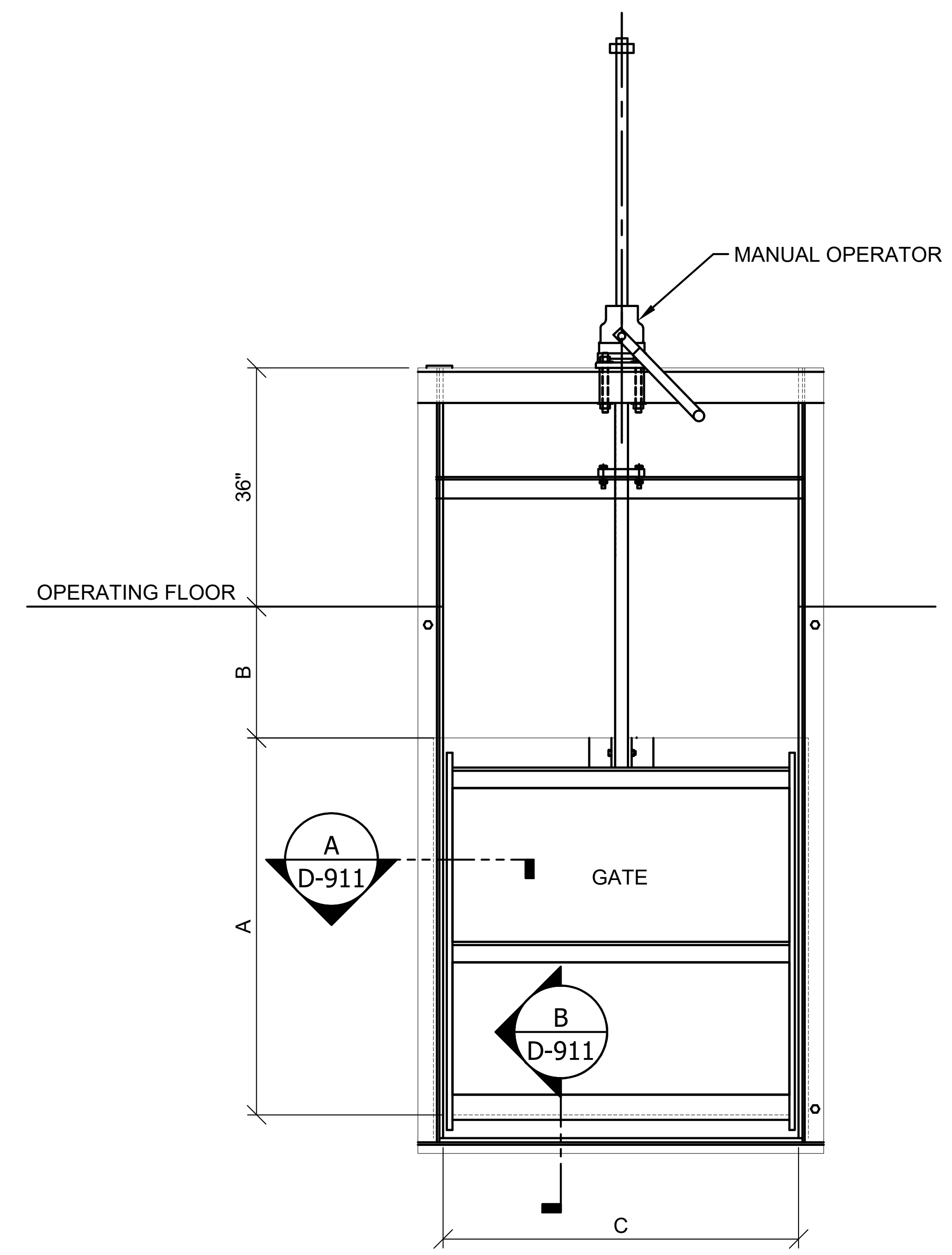
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE051452
Graham Sizemore
03.19.2025
GRAHAM S. SIZEMORE

PROCESS DETAILS

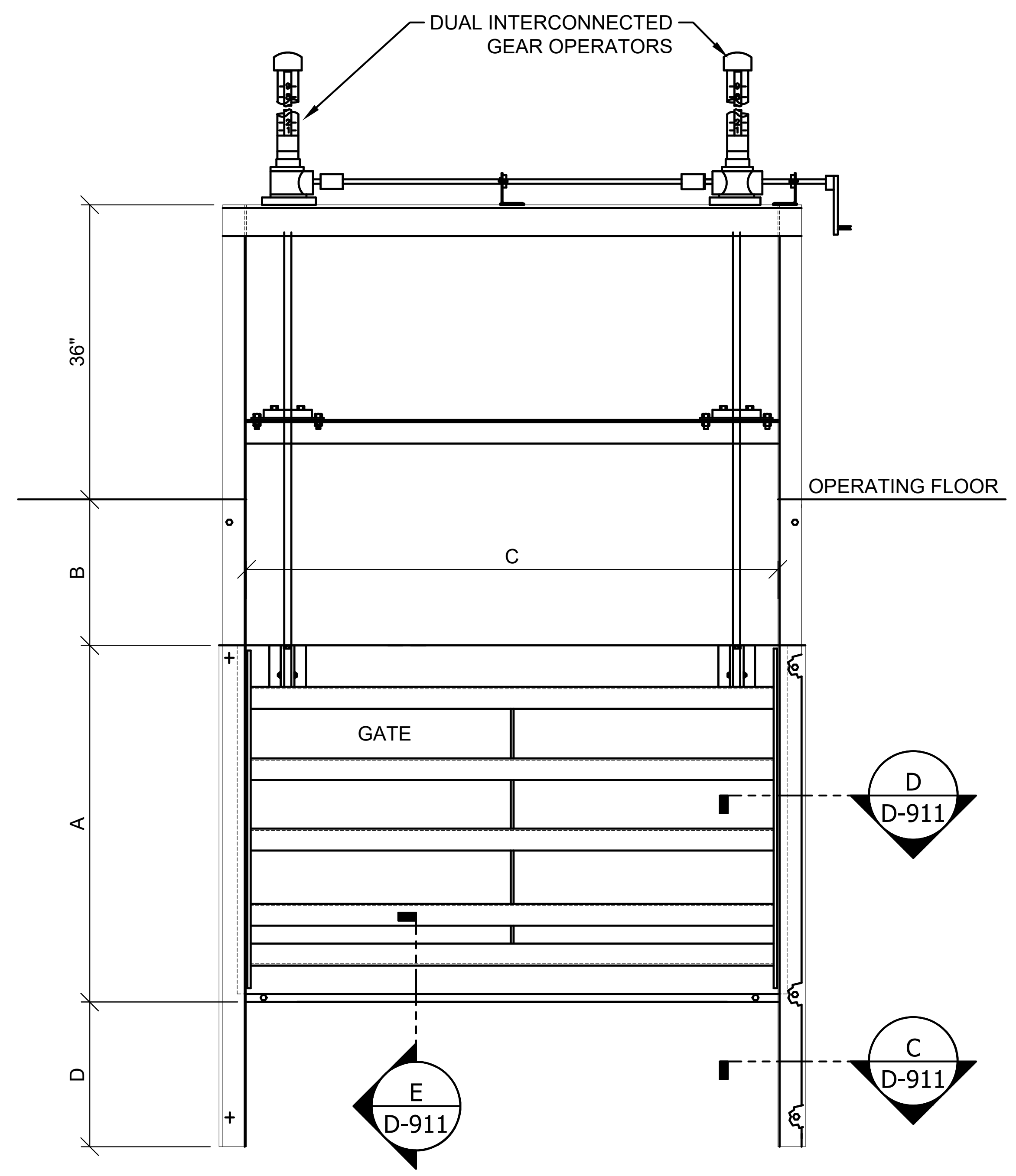
D-907

DRAWING FILE: C:\Users\GSIZEM~1\AppData\Local\Temp\AcPublish_29044\D-906 PROCESS DETAILS.dwg
PLOTTED: Mar 19, 2025 - 2:05pm

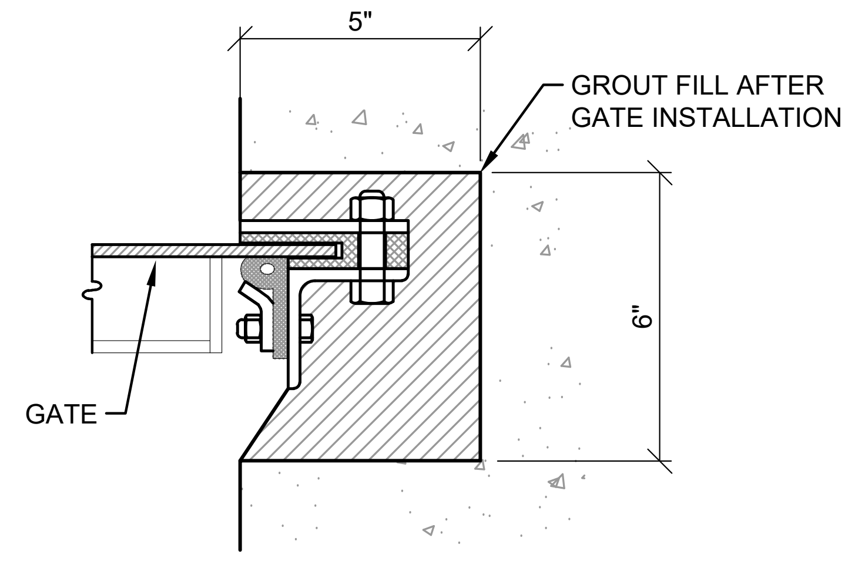
TAG	TYPE	LOCATION	MOUNTING	OPERATOR & OPERATOR SUPPORT	HEIGHT A (INCHES)	HEIGHT B (INCHES)	WIDTH C (INCHES)	HEIGHT D (INCHES)	DESIGN SEATING HEAD (INCHES)	DESIGN UNSEATING HEAD (INCHES)	NOTES	P&ID Sheet Number	Process Sheet Number	Labeled
SG1201	Slide Gate	Before Vortex Grit Chamber	Embedded	Handwheel	56	12	48					I-103	D-121	X
SG1202	Slide Gate	Before Vortex Grit Chamber	Embedded	Handwheel	56	12	48					I-103	D-121	X
SG1203	Slide Gate	Bypass Vortex Grit Chamber	Embedded	Handwheel	56	12	36					I-103	D-121	X
SG1204	Slide Gate	After Vortex Grit Chamber	Embedded	Handwheel	32	12	30					I-103	D-121	X
SG1205	Slide Gate	After Vortex Grit Chamber	Embedded	Handwheel	32	12	30					I-103	D-121	X
SG3010	Slide Gate	Orbal Aeration Basin	Wall Mounted	Handwheel	54	138	24		150		Embedded Sill	I-301	D-301	X
SG3020	Slide Gate	Orbal Aeration Basin	Wall Mounted	Handwheel	54	138	24		150		Embedded Sill	I-301	D-301	X
SG3030	Slide Gate	Orbal Aeration Basin	Wall Mounted	Handwheel	36	156	36		150		Embedded Sill	I-301	D-301	X
SG3040	Slide Gate	Orbal Aeration Basin	Wall Mounted	Handwheel	36	156	36					I-301	D-305	X
WG3050	Weir Gate	Orbal Aeration Basin	Wall Mounted	Handwheel	22	24	84	22			Height B measured when gate is fully closed	I-301	D-305	X
SG4010	Slide Gate	Clarifier	Embedded	Handwheel	24	18	24					I-401	D-403	X
SG4020	Slide Gate	Clarifier	Embedded	Handwheel	24	18	24					I-401	D-403	X
WG4110	Weir Gate	Clarifier Splitter Box	Wall Mounted	Handwheel	24	44	96	6			Height B measured when gate is at normal position	I-401	D-402	X
WG4120	Weir Gate	Clarifier Splitter Box	Wall Mounted	Handwheel	24	44	96	6			Height B measured when gate is at normal position	I-401	D-402	X



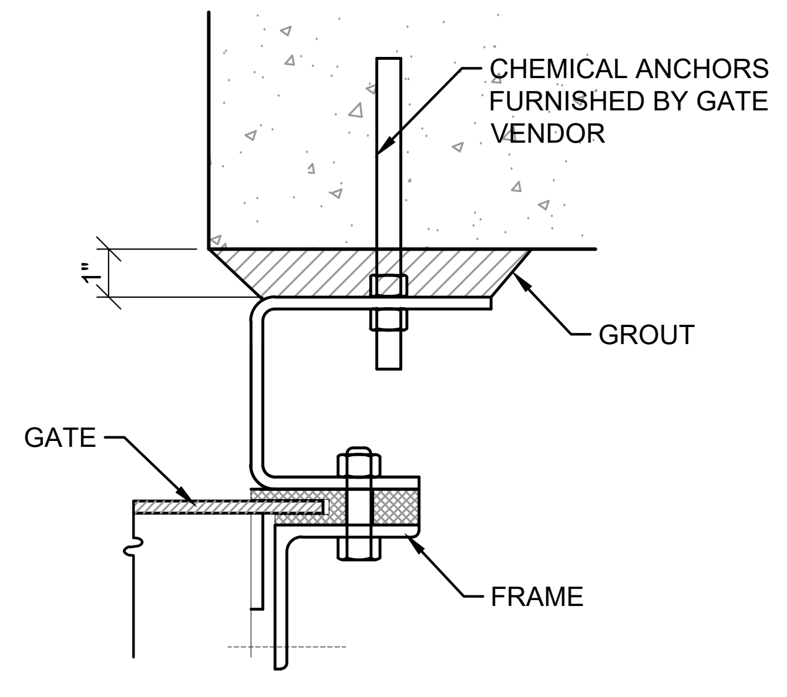
1 D-911
SECTION - UPWARD OPENING SLIDE GATE
SCALE: NOT TO SCALE



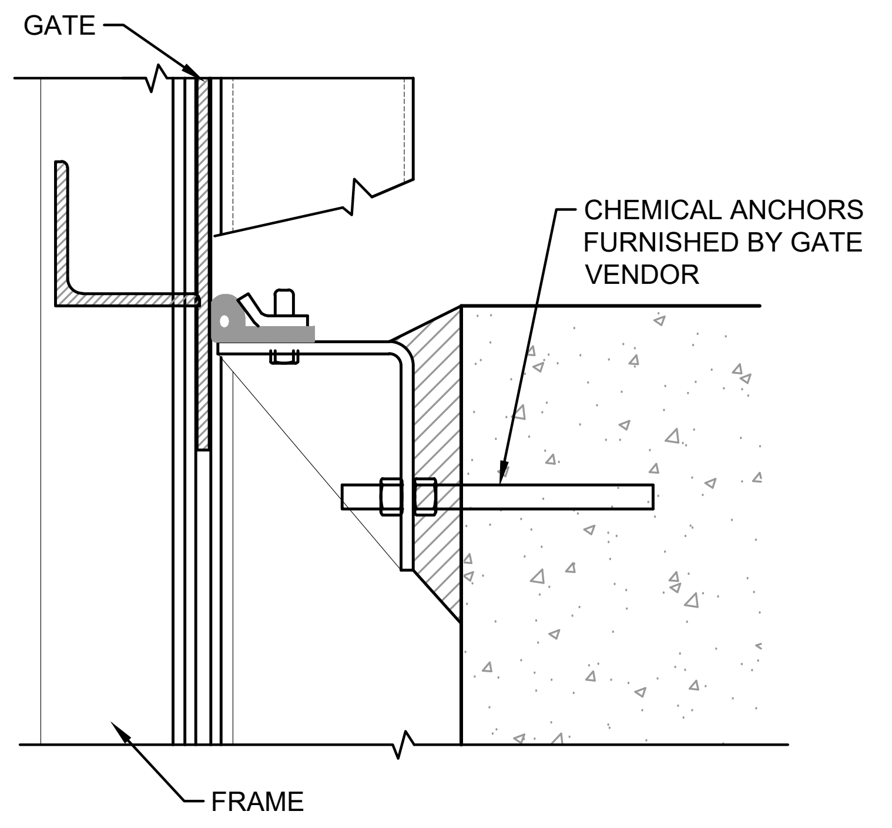
2 D-911
SECTION - DOWNWARD OPENING SLIDE GATE
SCALE: NOT TO SCALE



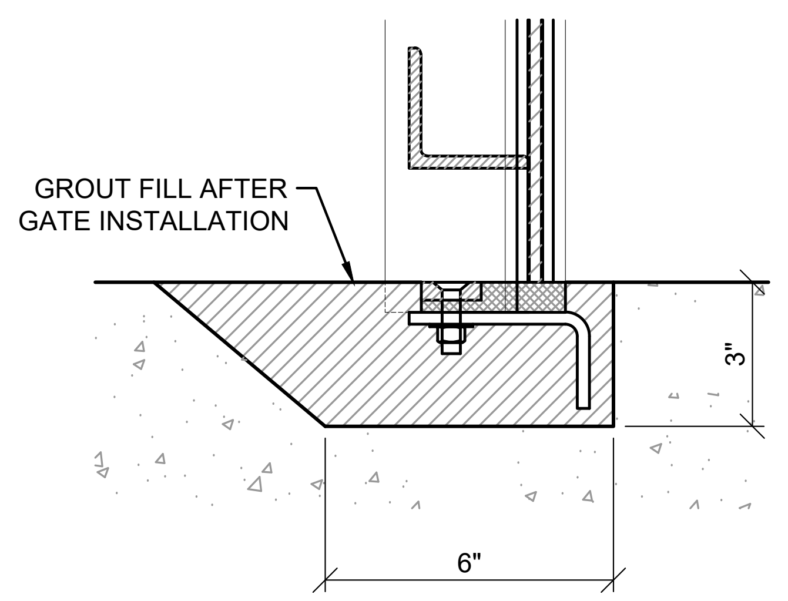
A D-911
DETAIL
SCALE: NOT TO SCALE



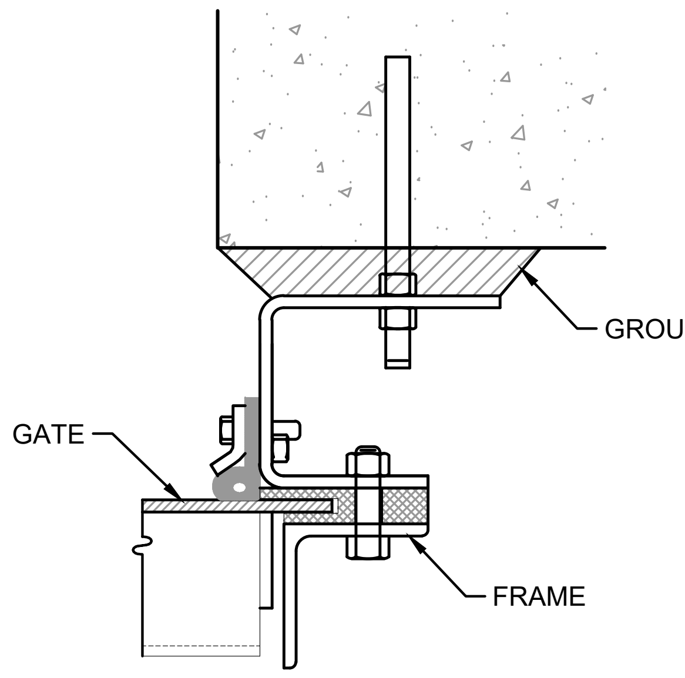
C D-911
DETAIL
SCALE: NOT TO SCALE



E D-911
VIEW TITLE
SCALE: NOT TO SCALE



B D-911
DETAIL
SCALE: NOT TO SCALE



D D-911
DETAIL
SCALE: NOT TO SCALE

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GROVE CREEK WPCP
COMMERCE, GA

CATL230033

No. PE051452
Graham S. Sizemore
03.19.2025
GRAHAM S. SIZEMORE

GATE SCHEDULE & DETAILS ATTACHMENTS

D-911

DRAWING FILE: T:\1 Projects\GA\Commerce\CATL230033 - Commerce 2.0 MGD Grove Creek WPCP\0 DWG\1 PLANS\02 SHEETS\04 PROCESS\D-911 GATE SCHEDULE & DETAILS.dwg
PLOTTED: Mar 19, 2025 - 2:05pm

	TAG	SERVICE	TYPE	SIZE	CONNECTION	OPERATOR	NOTES
1000	**V1001**	RWW	PLUG	12	FLG	Handwheel	For Emergency Pump Connection
	V1011	RWW	BALL	1/4	THD	Lever	
	V1012	RWW	BALL	2	THD	Lever	
	V1013	RWW	AIR RELEASE	2	THD	N/A	
	V1014	RWW	SWING CHECK	12	FLG	N/A	
	V1015	RWW	PLUG	12	MJ	Nut	Buried service; operator in valve box
	V1021	RWW	BALL	1/4	THD	Lever	
	V1022	RWW	BALL	2	THD	Lever	
	V1023	RWW	AIR RELEASE	2	THD	N/A	
	V1024	RWW	SWING CHECK	12	FLG	N/A	
	V1025	RWW	PLUG	12	MJ	Nut	Buried service; operator in valve box
	V1031	RWW	BALL	1/4	THD	Lever	
	V1032	RWW	BALL	2	THD	Lever	
	V1033	RWW	AIR RELEASE	2	THD	N/A	
	V1034	RWW	SWING CHECK	12	FLG	N/A	
	V1035	RWW	PLUG	12	MJ	Nut	Buried service; operator in valve box
	V1041	RWW	PLUG	10	MJ	Nut	Buried service; operator in valve box
	V1042	RWW	PLUG	10	MJ	Nut	Buried service; operator in valve box
	V1043	BYPASS	PLUG	10	MJ	Nut	Buried service; operator in valve box
	V1045	RWW	PLUG	12	MJ	Nut	Buried service; operator in valve box
	V1055	RWW	PLUG	12	MJ	Nut	Buried service; operator in valve box
	V1010	RWW	PLUG	16	MJ	Nut	Buried service; operator in valve box
	V1020	RWW	PLUG	16	MJ	Nut	Buried service; operator in valve box
	V1110	RWW	PLUG	20	FLG	Handwheel	
	V1111	RUW	SOLENOID	1	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V1112	RUW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V1113	RUW	PRESSURE REGULATING	1	THD	N/A	Furnished by Equipment Manufacturer
	V1114	RUW	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V1115	RUW	SOLENOID	3/4	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V1116	RUW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V1117	RUW	PRESSURE REGULATING	3/4	THD	N/A	Furnished by Equipment Manufacturer
	V1118	RUW	BALL	3/4	THD	Lever	Furnished by Equipment Manufacturer
	V1120	RWW	PLUG	20	FLG	Handwheel	
	V1121	RUW	SOLENOID	1	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V1122	RUW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V1123	RUW	PRESSURE REGULATING	1	THD	N/A	Furnished by Equipment Manufacturer
	V1124	RUW	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V1130	NaOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V1131	NaOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V1212	GR	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V1213	GR	PINCH	4	FLG	Air Actuated	Furnished by Equipment Manufacturer
	V1214	VAC	SOLENOID	1/2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V1215	RUW	SOLENOID	1-1/2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V1216	RUW	BALL	1/4	THD	Lever	
	V1217	RUW	PRESSURE REGULATING	1-1/2	THD	N/A	
	V1218	RUW	BALL	1-1/2	THD	Lever	Furnished by Equipment Manufacturer
	V1219	D	BALL	2	THD	Lever	Furnished by Equipment Manufacturer
2000	**V2101**	RWW	PLUG	240	MJ	Nut	
	V2102	BYPASS	PLUG	240	MJ	Nut	
	V2103	RWW	PLUG	24	MJ	Nut	
	V2104	RWW	PLUG	16	MJ	Nut	
	V2201	RWW	PLUG	160	MJ	Nut	Buried service; operator in valve box
	V2202	RWW	PLUG	12	FLG	Motorized	
	V2203	RWW	PLUG	16	MJ	Nut	Buried service; operator in valve box
	V2204	BYPASS	PLUG	16	MJ	Nut	Buried service; operator in valve box
3000	**V3111**	RAS	PLUG	12	MJ	Nut	Buried service; operator in valve box
	V3112	RAS	PLUG	12	MJ	Nut	Buried service; operator in valve box
	V3113	RWW	PLUG	16	MJ	Nut, Electric Actuated	Buried service; operator in valve box
	V3114	RWW	PLUG	16	MJ	Nut, Electric Actuated	Buried service; operator in valve box
	V3115	RWW	PLUG	16	MJ	Nut, Electric Actuated	Buried service; operator in valve box
	V3116	NaOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V3117	NaOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V3118	NaOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V3119	D	PLUG	6	MJ	Nut	Buried service; operator in valve box
	V3120	D	PLUG	6	MJ	Nut	Buried service; operator in valve box
4000	**V4010**	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V4011	D	PLUG	60	MJ	Nut	Buried service; operator in valve box
	V4012	SE	PLUG	240	MJ	Nut	Buried service; operator in valve box
	V4021	D	PLUG	60	MJ	Nut	Buried service; operator in valve box
	V4311	RAS	BALL	1/4	THD	Lever	
	V4312	RAS	BALL	2	THD	Lever	
	V4313	RAS	AIR RELEASE	2	THD	N/A	
	V4314	RAS	SWING CHECK	8	FLG	N/A	
	V4315	RAS	PLUG	8	FLG	Handwheel	
	V4321	RAS	BALL	1/4	THD	Lever	
	V4322	RAS	BALL	2	THD	Lever	
	V4323	RAS	AIR RELEASE	2	THD	N/A	
	V4324	RAS	SWING CHECK	8	FLG	N/A	
	V4325	RAS	PLUG	8	FLG	Handwheel	
	V4331	WAS	BALL	1/4	THD	Lever	
	V4332	WAS	BALL	2	THD	Lever	
	V4333	WAS	AIR RELEASE	2	THD	N/A	
	V4334	WAS	SWING CHECK	6	FLG	N/A	
	V4335	WAS	PLUG	6	FLG	Handwheel	
	V4341	WAS	BALL	1/4	THD	Lever	
	V4342	WAS	BALL	2	THD	Lever	
	V4343	WAS	AIR RELEASE	2	THD	N/A	
	V4344	WAS	SWING CHECK	6	FLG	N/A	
	V4345	WAS	PLUG	6	FLG	Handwheel	
5000	**V5100**	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V5101	SE	BUTTERFLY	18	FLG	Handwheel	
	V5102	REC	BALL	3	THD	Lever	Furnished by Equipment Manufacturer
	V5103	D	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5104	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5105	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5106	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5107	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5108	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5109	D	BALL	3	THD	Lever	
	V5111	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5112	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5113	BWW	GATE	3	THD	Lever	Furnished by Equipment Manufacturer
	V5121	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5122	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5123	BWW	GATE	3	THD	Lever	Furnished by Equipment Manufacturer
	V5201	SE	BUTTERFLY	18	FLG	Handwheel	
	V5202	REC	BALL	3	THD	Lever	Furnished by Equipment Manufacturer
	V5203	D	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5204	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5205	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5206	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5207	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5208	BWW	BALL	2	THD	Electric Actuated	Furnished by Equipment Manufacturer
	V5209	D	BALL	3	THD	Lever	
	V5211	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5212	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5213	BWW	GATE	3	THD	Lever	Furnished by Equipment Manufacturer
	V5221	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5222	BWW	BALL	1/4	THD	Lever	Furnished by Equipment Manufacturer
	V5223	BWW	GATE	3	THD	Lever	Furnished by Equipment Manufacturer

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GRAHAM S. SIZEMORE

VALVE SCHEDULE

D-921

DRAWING FILE: T:\1 Projects\GA\Commerce\CATL230033 - Commerce 2.0 MGD Grove Creek WPCP\0 DWG\1 PLANS\02 SHEETS\04 PROCESS\D-921 VALVE SCHEDULE.dwg
PLOTTED: Mar 19, 2025 - 2:05pm

	TAG	SERVICE	TYPE	SIZE	CONNECTION	OPERATOR	NOTES
6000	**V6010**	FE	PLUG	16	FLG	Handwheel	
	V6011	FNE	PLUG	16	FLG	Handwheel	
	V6020	FE	PLUG	16	FLG	Handwheel	
	V6021	FNE	PLUG	16	FLG	Handwheel	
	V6101	RUW	BALL	1/2	THD	Lever	
	V6102	RUW	BALL	1/2	THD	Lever	
	V6103	RUW	CHECK	4	WFR	DISK	Furnished by Equipment Manufacturer
	V6104	RUW	CHECK	4	WFR	DISK	Furnished by Equipment Manufacturer
	V6105	RUW	BUTTERFLY	4	FLG	Electric Actuated	Furnished by Equipment Manufacturer
	V6106	RUW	BUTTERFLY	4	FLG	Electric Actuated	Furnished by Equipment Manufacturer
	V6107	RUW	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V6108	RUW	AIR RELEASE	1	THD	N/A	Furnished by Equipment Manufacturer
	V6109	RUW	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V6110	RUW	AIR RELEASE	1	THD	N/A	Furnished by Equipment Manufacturer
	V6111	RUW	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V6112	RUW	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V6113	RUW	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V6114	RUW	PRESSURE RELIEF	1-1/4	THD	N/A	Furnished by Equipment Manufacturer
	V6115	RUW	BUTTERFLY	4	FLG	Lever	Furnished by Equipment Manufacturer
7000	**V7011**	WAS	PLUG	6	FLG	Handwheel	
	V7012	AIR	BUTTERFLY	10	WFR	Lever	
	V7013	D	PLUG	8	MJ	2" NUT	Provided Valve Box
	V7014	DS	PLUG	8	MJ	2" NUT	Provided Valve Box
	V7021	WAS	PLUG	6	FLG	Handwheel	
	V7022	AIR	BUTTERFLY	10	WFR	Lever	
	V7023	D	PLUG	8	MJ	2" NUT	Provided Valve Box
	V7024	DS	PLUG	8	MJ	2" NUT	Provided Valve Box
	V7030	NaOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V7031	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V7040	NaOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V7041	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V7111	AIR	CHECK	10	FLG	N/A	
	V7112	AIR	BUTTERFLY	10	WFR	Handwheel	
	V7121	AIR	CHECK	10	FLG	N/A	
	V7122	AIR	BUTTERFLY	10	WFR	Handwheel	
	V7132	AIR	BUTTERFLY	10	WFR	Handwheel	
	V7141	AIR	BUTTERFLY	12	WFR	Handwheel	
	V7142	AIR	BUTTERFLY	12	WFR	Handwheel	
	V7210	DS	PLUG	80	FLG	Handwheel	
	V7211	DS	PLUG	80	FLG	Handwheel	
	V7212	DS	PLUG	60	FLG	Handwheel	
	V7213	DS	SAFETY RELIEF	20	THD	N/A	
	V7214	DS	BALL	1-1/2	THD	Lever	
	V7240	POL	CHECK	1000	THD	N/A	
	V7241	POL	BALL	10	THD	Lever	

	TAG	SERVICE	TYPE	SIZE	CONNECTION	OPERATOR	NOTES
8000	**V8011**	PD	BALL	10	THD	Lever	
	V8012	PD	AIR RELEASE	10	THD	N/A	
	V8013	PD	BALL	1/4	THD	Lever	
	V8014	PD	CHECK	80	FLG	N/A	
	V8015	PD	PLUG	80	FLG	Handwheel	
	V8021	PD	BALL	10	THD	Lever	
	V8022	PD	AIR RELEASE	10	THD	N/A	
	V8023	PD	BALL	1/4	THD	Lever	
	V8024	PD	CHECK	80	FLG	N/A	
	V8025	PD	PLUG	80	FLG	Handwheel	
	V8030	PD	PLUG	80	MJ	Nut	Buried service; operator in valve box
	V8101	NAOH	BALL	20	THD	Lever	
	V8102	NAOH	BALL	20	THD	Lever	
	V8103	D	BALL	20	THD	Lever	
	V8110	NAOH	BALL	2	THD	Lever	Furnished by Equipment Manufacturer
	V8111	V	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V8112	V	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V8113	NAOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8114	V	SAFETY RELIEF	1/2	THD	N/A	Furnished by Equipment Manufacturer
	V8115	NAOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8116	NAOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8123	NAOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8124	V	SAFETY RELIEF	1/2	THD	N/A	Furnished by Equipment Manufacturer
	V8125	NAOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8126	NAOH	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8200	PACL	BALL	20	THD	Lever	
	V8201	PACL	BALL	20	THD	Lever	
	V8202	D	BALL	20	THD	Lever	
	V8210	PACL	BALL	2	THD	Lever	Furnished by Equipment Manufacturer
	V8211	V	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V8212	V	BALL	1	THD	Lever	Furnished by Equipment Manufacturer
	V8213	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8214	V	SAFETY RELIEF	1/2	THD	N/A	Furnished by Equipment Manufacturer
	V8215	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8216	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8223	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8224	V	SAFETY RELIEF	1/2	THD	N/A	Furnished by Equipment Manufacturer
	V8225	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8226	PACL	BALL	1/2	THD	Lever	Furnished by Equipment Manufacturer
	V8301	POL	BALL	1	THD	Lever	
	V8310	D	BALL	1	THD	Lever	
	V8311	POL	BALL	1	THD	Lever	
	V8312	W	BALL	1	THD	Lever	

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GOODWYN MILLS CAWOOD, LLC
No. PEF007898
Exp. 06.30.2026

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager: CW
Engineer: GS
Designer: GS
Drawn By:

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

No. PE051452
03.19.2025
GRAHAM S. SIZEMORE

VALVE SCHEDULE

D-922

DRAWING FILE: T:\1 Projects\GA\Commerce\CATL230033 - Commerce 2.0 MGD Grove Creek WPCP\0 DWG\1 PLANS\02 SHEETS\04 PROCESS\D-921 VALVE SCHEDULE.dwg
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