

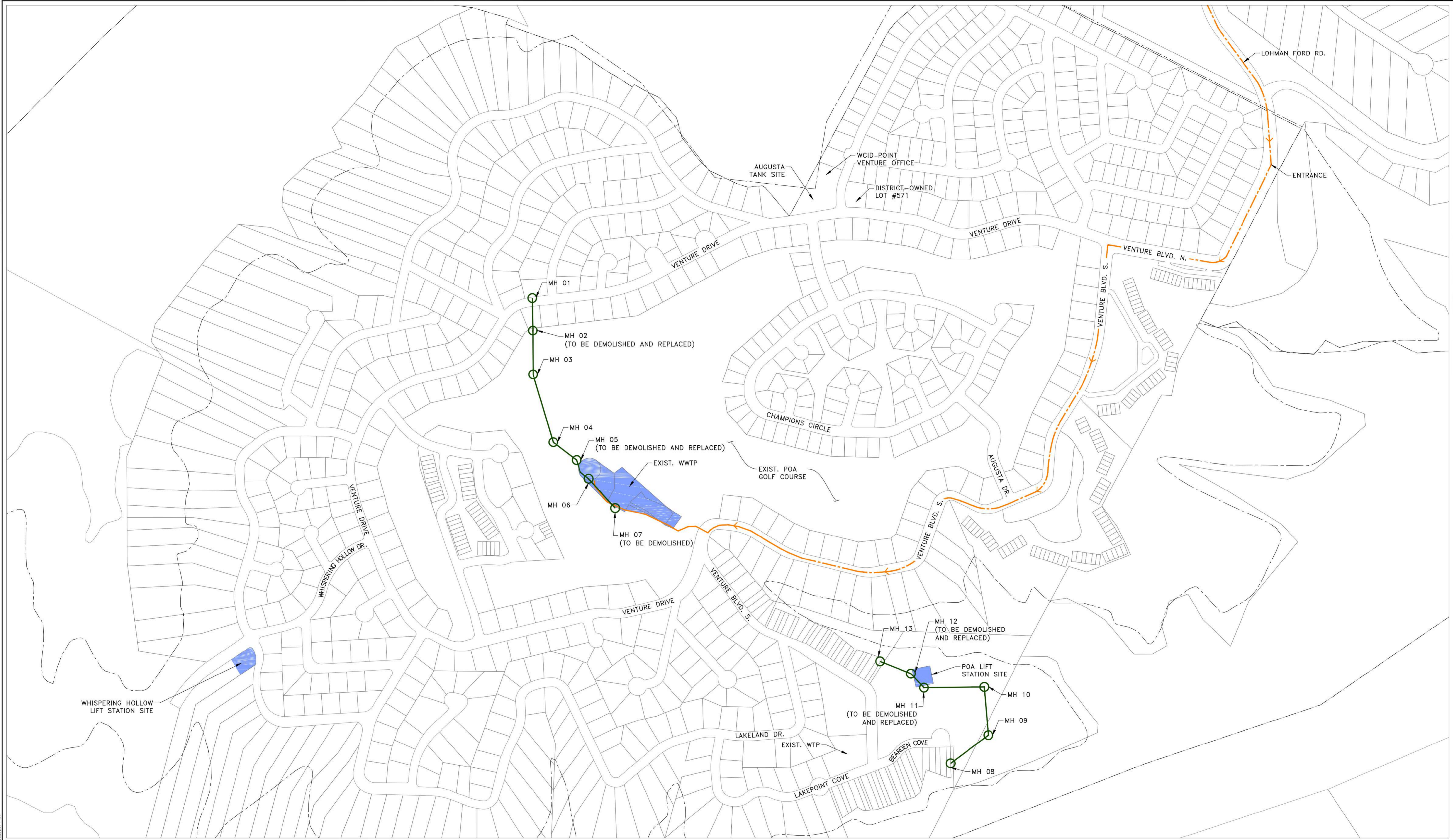
NOT FOR
CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	CHKD
A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV

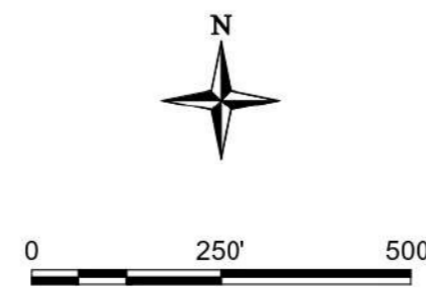
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DESIGNED BY:	DV, SY
CHECKED BY:	DV
SCALE:	AS SHOWN
DATE:	9/14/2022
PR. NO.:	701-023-300
FILE:	traviswwtp.suetsy.mxd

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Texas Survey Firm
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Austin, Texas 78745
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www.trihydro.com

PROPOSED SITE PLAN
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS



- EXPLANATION:**
- EXISTING LOTS
 - - - CCN BOUNDARY
 - - - FULL PURPOSE JURISDICTION BOUNDARY
 - - - CONSTRUCTION ROUTE
 - PROJECT SITE
 - EXISTING MANHOLE/GRAVITY COLLECTION SYSTEM



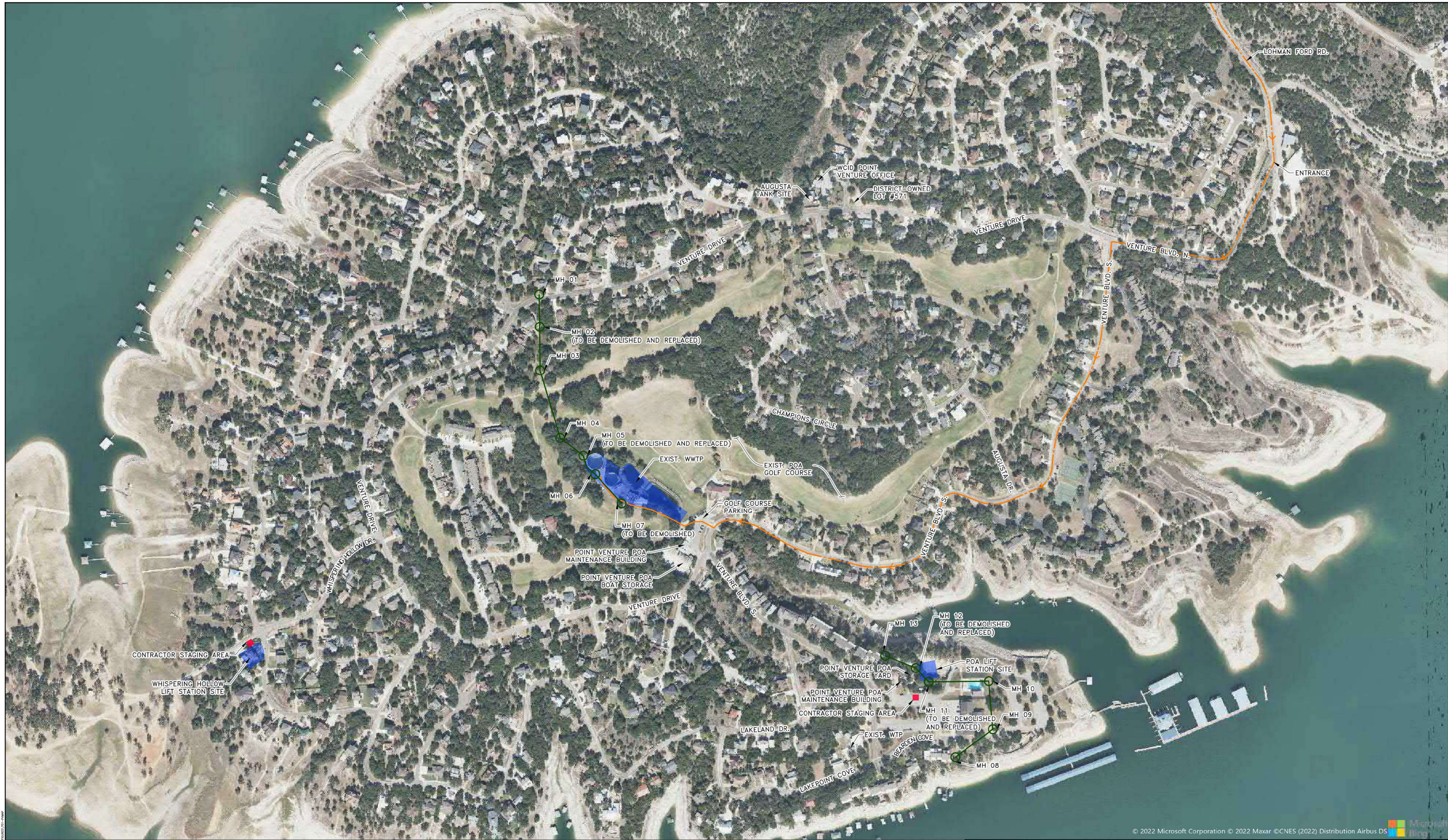
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Headquarters: 1252 Commerce Drive, Laramie, Wyoming 82070
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www.trihydro.com

Austin Branch Office: Texas Engineering Firm F-131
3801 South First Street, Austin, Texas 78704
(P) 512/442.3008 (F) 512/448.7811

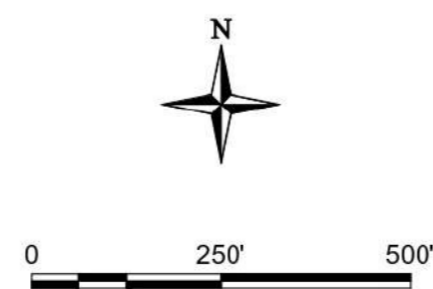
EXHIBIT A			
OVERALL MAP OF POINT VENTURE			
0.15 MGD WWTP			
TRAVIS COUNTY W.C. & I.D. POINT VENTURE			
POINT VENTURE, TEXAS			
Drawn By: KP	Checked By: DV	Scale: 1" = 250'	Date: 9/12/2022

LIVING COUNTY, W.C. & I.D. POINT VENTURE - DOCUMENTS\LOGS\WWT\09122022\T1-PMW



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- EXPLANATION:**
- CONSTRUCTION ROUTE
 - PROJECT SITE
 - CONTRACTOR'S STAGING AREA
 - EXISTING MANHOLE/GRAVITY COLLECTION SYSTEM



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Texas Survey Firm 10194320
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Austin, Texas 78704
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EXHIBIT B			
OVERALL MAP OF POINT VENTURE			
0.15 MGD WWTP			
TRAVIS COUNTY W.C. & I.D. POINT VENTURE			
POINT VENTURE, TEXAS			
Drawn By: KP	Checked By: DV	Scale: 1" = 200'	Date: 9/12/2022

**TRAVIS COUNTY WCID POINT VENTURE
0.15 MGD WWTP
MAJOR EQUIPMENT LIST**

Location	Equipment	Capacity	Per Unit Net Equipment Weight (lbs)
Main Lift Station	(1) - Jib Crane & Hoist	2 Ton	2,469
	(3) - Submersible Solids Handling Pumps	354 gpm @ 41' TDH /7.5 HP	600
Headworks	(1) - Fine Screen Unit	1.9 MGD	1,500
Aeration	(2) - Mechanical Surface Aerators	20 HP/ 1800 RPM	2,157
Clarifier	(1) - Clarifier Unit	0.15 MGD average/ 0.45 MGD peak	3,000
Filtration	(1) - Filter Unit	0.15 MGD average/ 0.45 MGD peak or 72 sf/filter	2,950
	(1) - Jib Crane & Hoist	1 Ton	875
Chlorine Contact	(2) - Nonpotable Water Submersible Pumps	25 gpm @ 179' TDH/ 1.5 HP	72
	(1) - Hydropneumatic Tank	212 gal	605
Effluent Transfer	(2) - Vertical Turbine Pumps	521 gpm @ 78.2' TDH/ 15 HP	936
Chemical Feed Building	(1) - Unit Heater	240 V/7.5 kW	45
	(1) - Sodium Hypochlorite Pump Skid	2.11 GPH/ 145 psi	220
	(1) - Roof Supply Ventilator	200 cfm	190
Existing Blower Room	(2) - Blowers	5 HP/ 1800 rpm/ 460V	350
	(1) - Supply Ventilator	200 cfm	190
Whispering Hollow Lift Station	(2) - Submersible Grinder Pumps	46 gpm @ 100' TDH/ 5 HP	210
POA Lift Station	(2) - Submersible Grinder Pumps	24 gpm @ 63' TDH/ 2 HP	105

**TRAVIS COUNTY WCID POINT VENTURE
0.15 MGD WWTP
CONCRETE QUANTITIES**

Location	Concrete (CY)	# of Trucks Required
Main Lift Station	96	10
Headworks	46	5
Aeration Basin	423	43
Clarifier	144	15
Filtration	13	2
Chlorine Contact	57	6
Effluent Transfer	25	3
Chem Feed Building	8	1
Existing Sludge Holding	7	1
Miscellaneous Electrical and Site	75	8
Total:	894	94



2019.6.26_TempEQBasinDeliveryInstall



2016.12.7_EffluentConcreteGST-ConcreteTrucks



2017.1.5_EffluentConcreteGST-AccessDriveway



Add'l Spoils/Staging Area

2017.1.5_EffluentConcreteGST-GolfCourseParkingLot



2021.6.8_ExistWWTPLiftStation



2021.10.21_POAParkingLot



2022.3.8_POAParkingLot-Contractor'sSpoilAreaPoolRenovations



**Flex Base
Path Access**

New POA LS



POA Storage Yard

2021.11.30_NewPOALiftStationSite



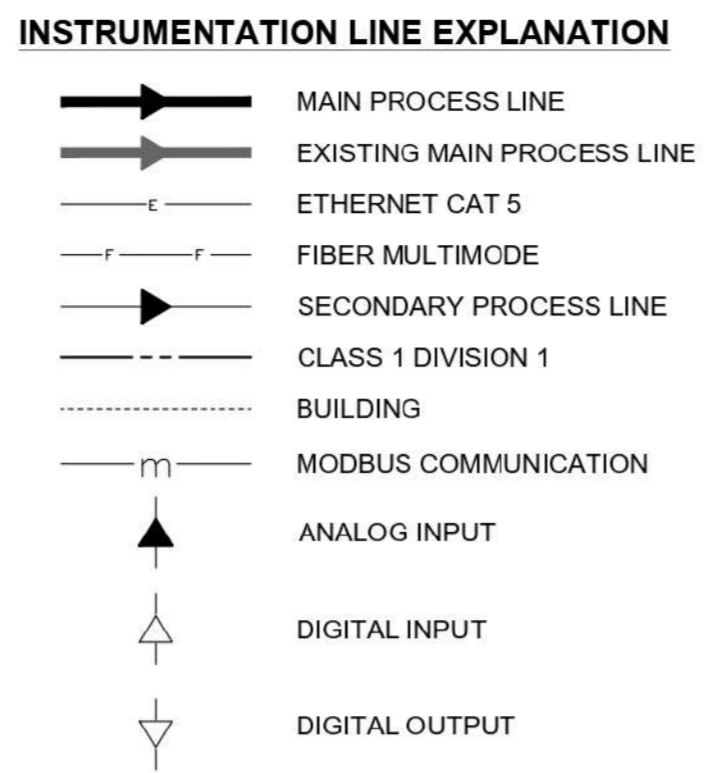
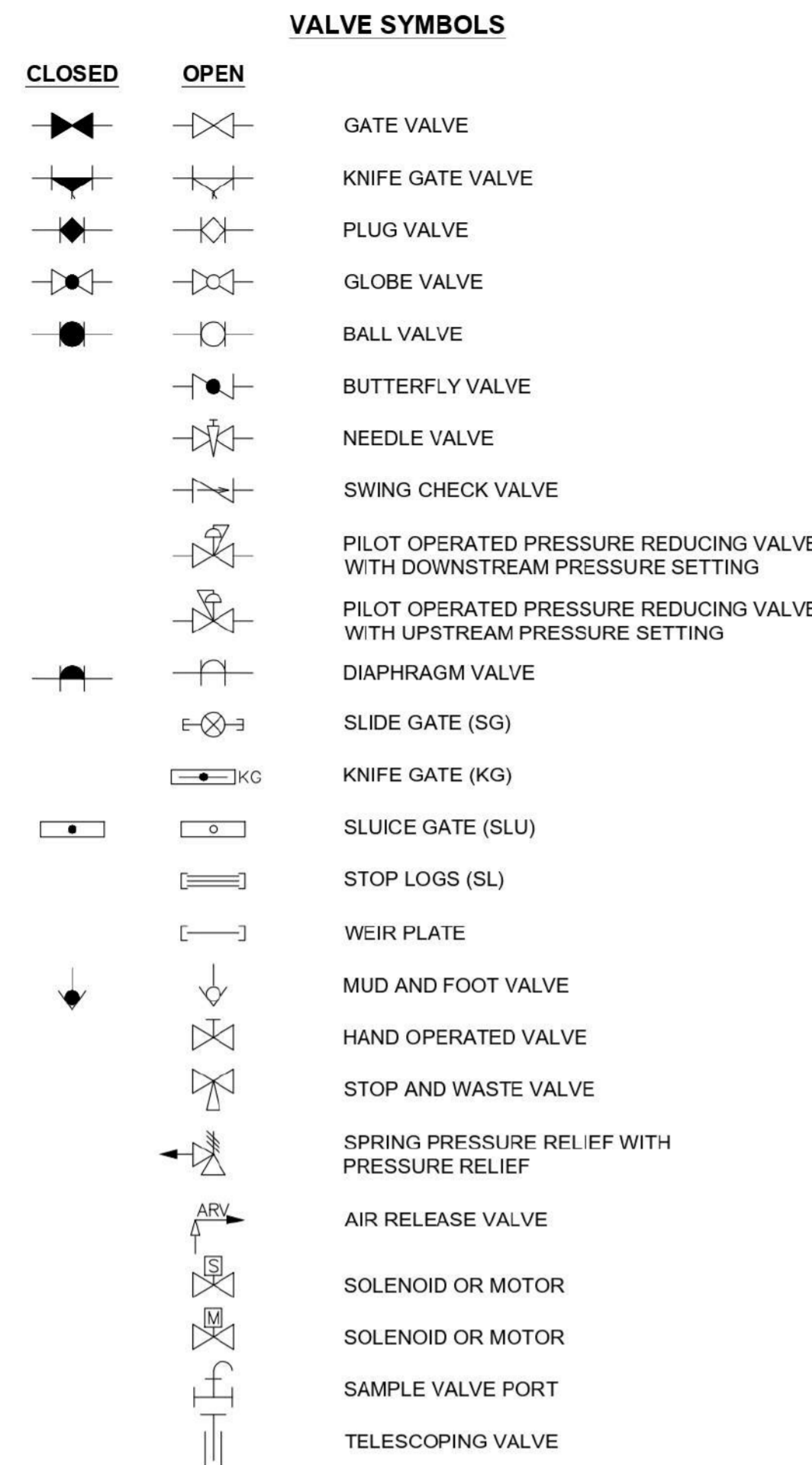
**Exist POA Lift Station
(To Be Demolished)**

District-owned Lot

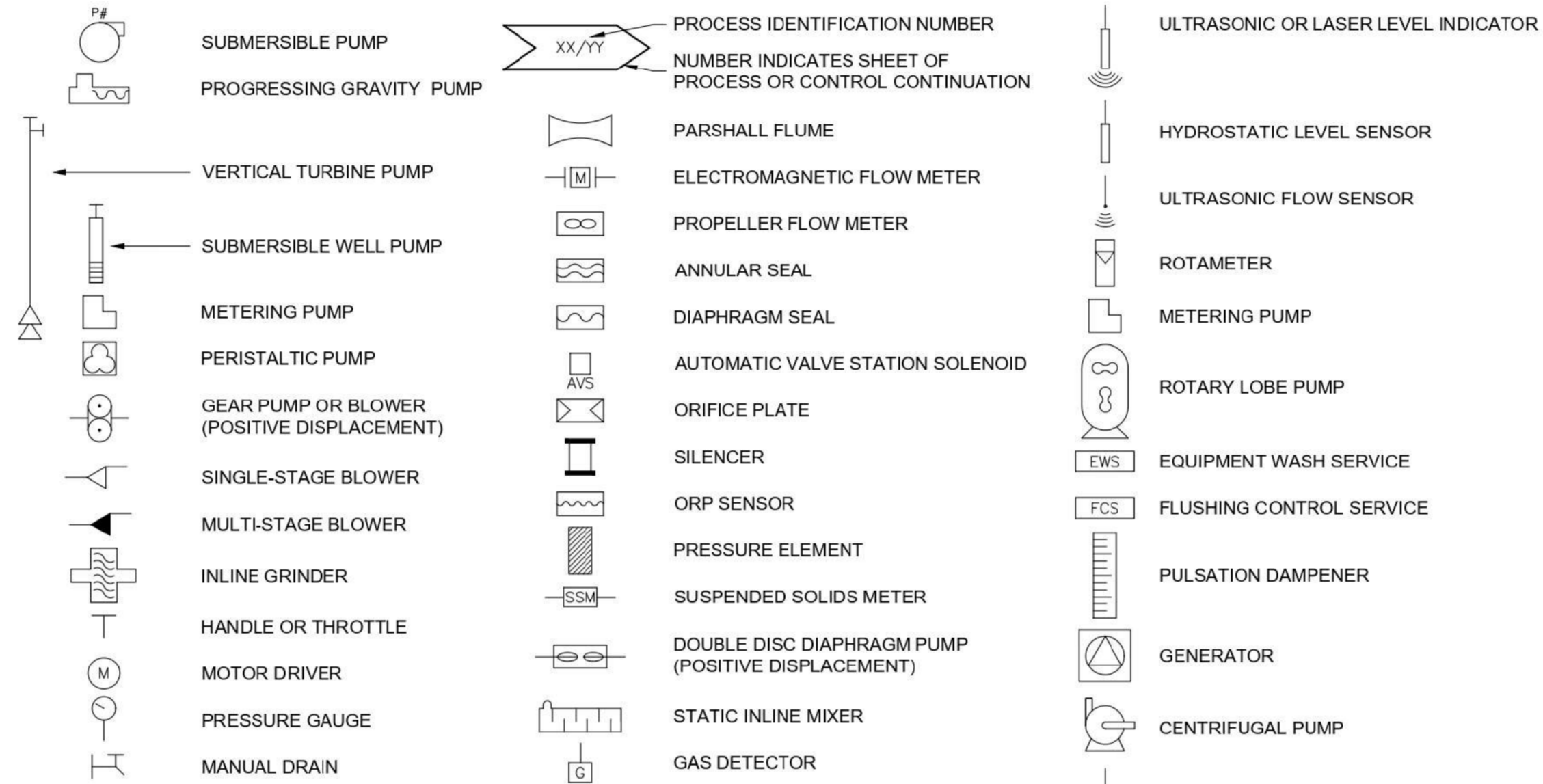
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2021.6.8_ExistingWhisperingHollowLiftStationSite



P&ID EQUIPMENT SYMBOLS



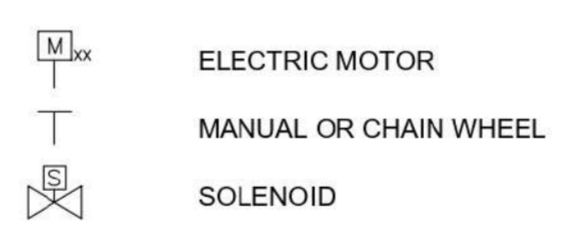
INSTRUMENT IDENTIFICATION LETTERS (INSTRUMENT SOCIETY OF AMERICA)

FIRST - LETTER	SUCCEEDING - LETTERS	MEASURED OR INITIATING VARIABLE	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A		ANALYSIS	ALARM		
B		BURNER, COMBUSTION	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C		CONTROL		CONTROL SWITCH	CLOSED
D		USER'S CHOICE	DIFFERENTIAL		
E		VOLTAGE	SENSOR (PRIMARY ELEMENT)		
F		FLOW RATE	RATIO (FRACTION)		
G		USER'S CHOICE	GLASS, VIEWING DEVICE		
H		HAND			HIGH
I		CURRENT (ELECTRICAL)	INDICATE		
J		POWER	SCAN		
K		TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION
L		LEVEL	LIGHT		LOW
M		USER'S CHOICE MOTOR	MONETARY		MIDDLE, INTERMEDIATE
N		TORQUE	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O		USER'S CHOICE	ORIFICE, RESTRICTION		OPEN
P		PRESSURE, VACUUM	POINT (TEST) CONNECTION		
Q		QUANTITY	INTEGRATE, TOTALIZE		
R		RADIATION	RECORD		
S		SPEED, FREQUENCY	SAFETY		SWITCH
T		TEMPERATURE	MULTIFUNCTION	TRANSMIT	
U		FAILURE		MULTIFUNCTION	MULTIFUNCTION
V		VIBRATION, MECHANICAL ANALYSIS		VALVE, DAMPER, LOUVER	
W		WEIGHT, FORCE	WELL		
X		UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED
Y		EVENT, STATE OR PRESENCE	Y AXIS	RELAY, COMPUTE, CONVERT	COMMAND
Z		POSITION, DIMENSION	Z AXIS	DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

COMMON INSTRUMENT DESIGNATIONS

TAG	DESIGNATION
ES	EMERGENCY STOP
FE	FLOW ELEMENT
FIT	FLOW INDICATOR/TRANSMITTER
FS	FLOW SWITCH
HC	HAND CONTROL
HIM	HUMAN-MACHINE INTERFACE
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HS	HAND SWITCH
KQI	RUN TIME METER
LCP	LOCAL CONTROL PANEL
LOR	LOCAL-OFF-REMOTE
LS	LEVEL SWITCH
MD	MAN DOOR
MI	MOISTURE INTRUSION
MN	MOTOR RUN COMMAND
OCA	OPEN-CLOSE-AUTO
OHD	OVERHEAD DOOR
PID	PROPORTIONAL-INTEGRAL-DERIVATIVE
PS	PRESSURE SWITCH LOW
SC	SPEED REFERENCE COMMAND
SI	SPEED INDICATION
SP	SETPOINT
UA	EQUIPMENT FAULT STATUS
YA	OPERATOR DEFINED ALARM
YL	EQUIPMENT RUNNING STATUS
YS	EQUIPMENT IN AUTO OR REMOTE STATUS
YY	EQUIPMENT RUN COMMAND
ZS	POSITION INDICATOR, TYP. DOOR INTRUSION
ZSC	VALVE POSITION FULL CLOSED
ZSI	VALVE POSITION INDICATOR
ZSO	VALVE POSITION FULL OPEN

ACTUATOR SYMBOLS



NOTE:
ON LOSS OF PRIMARY POWER (PNEUMATIC OR ELECTRIC) FO = FAIL OPEN FC = FAIL CLOSED FLP = FAIL TO LAST POSITION

PANEL NOMENCLATURE

CP-XXX: CONTROL PANEL (AREA CONTROL)
LCP-XXXX: LOCAL CONTROL PANEL (SPECIFICATION PROCESS CONTROL) LETTERS A, B, C DENOTES VENDOR SUPPLIED EQUIPMENT LIGHTING PANEL
LP-X:

GENERAL NOTES:

- THIS IS A STANDARD LEGEND, THEREFORE NOT ALL OF THIS INFORMATION MAY BE USED IN THIS PROJECT.
- P & ID INSTRUMENTATION DETAILS DO NOT REPRESENT INSTRUMENTS AND CONTROLS INTEGRAL TO VENDOR SUPPLIED CONTROL PANELS OR EQUIPMENT. SEE EQUIPMENT SPECIFICATIONS FOR THIS INFORMATION.
- P & ID DOES NOT REPRESENT EQUIPMENT HARDWIRED INTERLOCK AND ENABLE CIRCUITRY, REFER TO ELECTRICAL SECTIONS FOR COMPLETE DESCRIPTION.

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						A	9/9/2022
						ISSUE FOR 90% DESIGN	DESCRIPTION
						DV	BY
						DV	CHKD

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PROPOSED PROCESS FLOW DIAGRAM (1 OF 2)

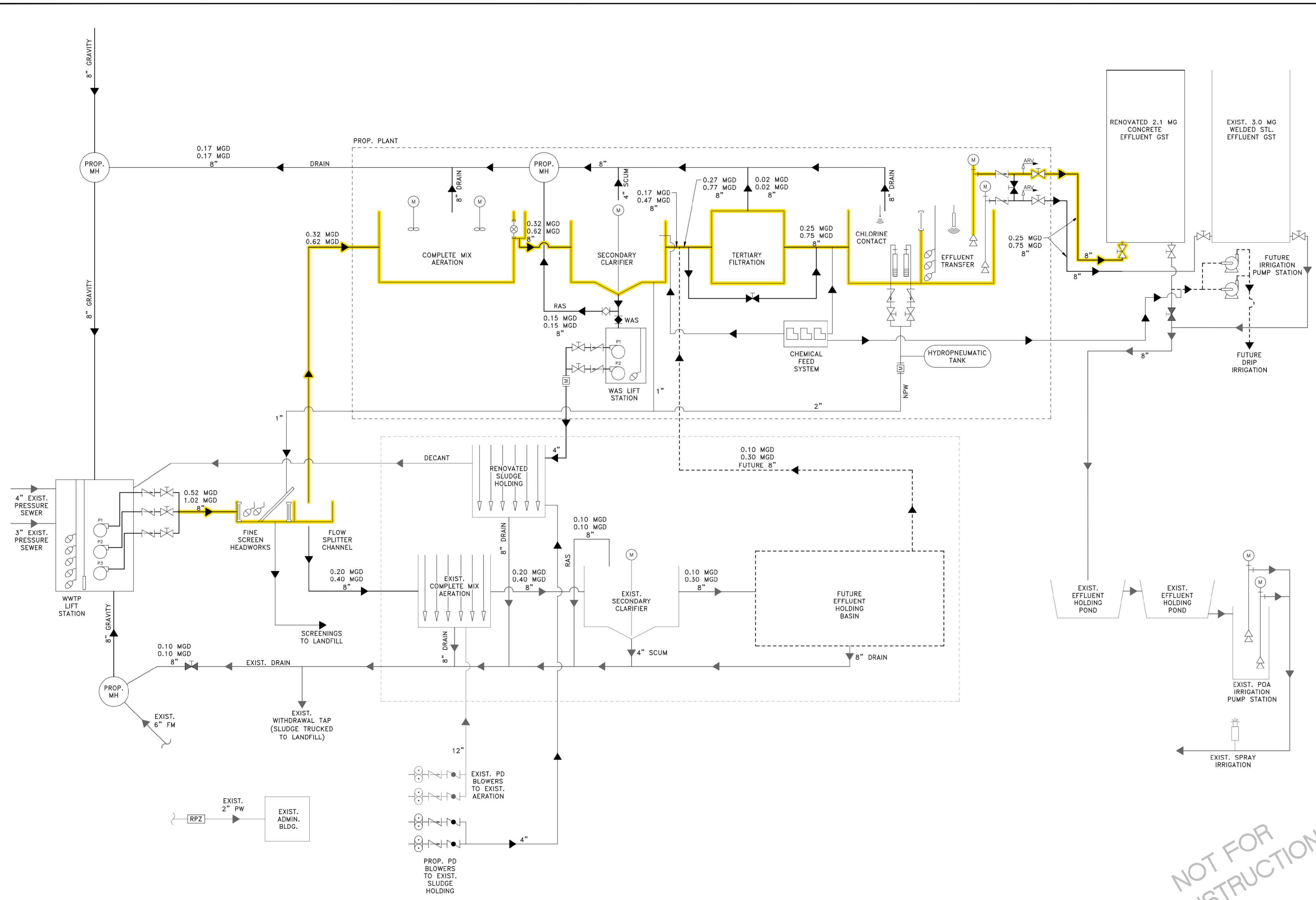
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TRAVIS COUNTY W.C.&I.D. POINT VENTURE

POINT VENTURE, TEXAS

SHEET
5
OF 83
REV: A

LIVING COUNTY LOCAL POINT VENTURE - DOCUMENTS/LOGS/WWTP/PLANT/ST/13-1000-PLANT/PROCESS/PROCESSFLOW.DWG



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SCALE: NONE			BY
DATE: 9/14/2022			DV
PR. NO: 701-023-300			CHKD
FILE:			

PROPOSED PROCESS FLOW DIAGRAM
(2 OF 2)

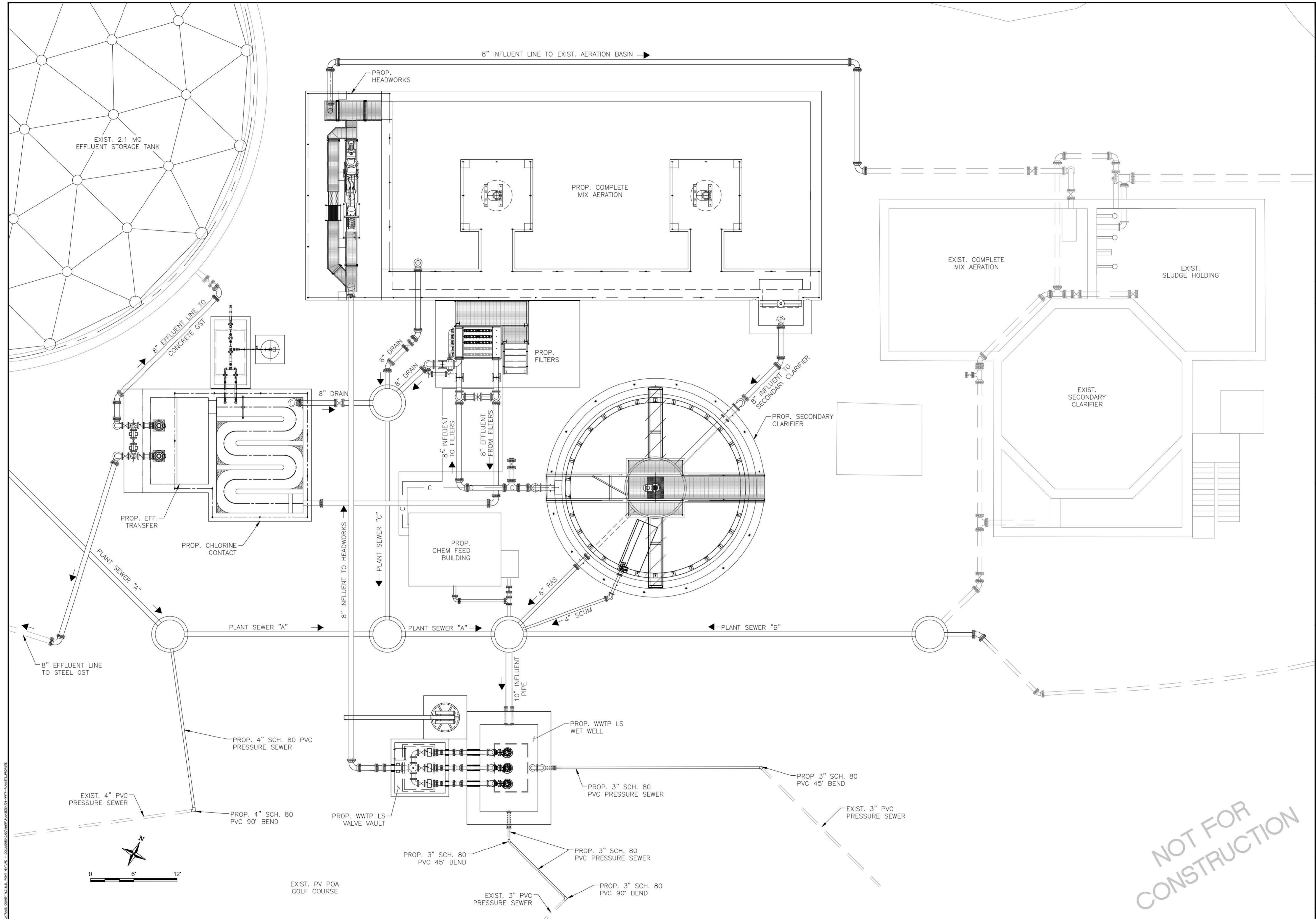
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TRAVIS COUNTY W.C.&I.D. POINT VENTURE

POINT VENTURE, TEXAS

SHEET
5
5 OF 47
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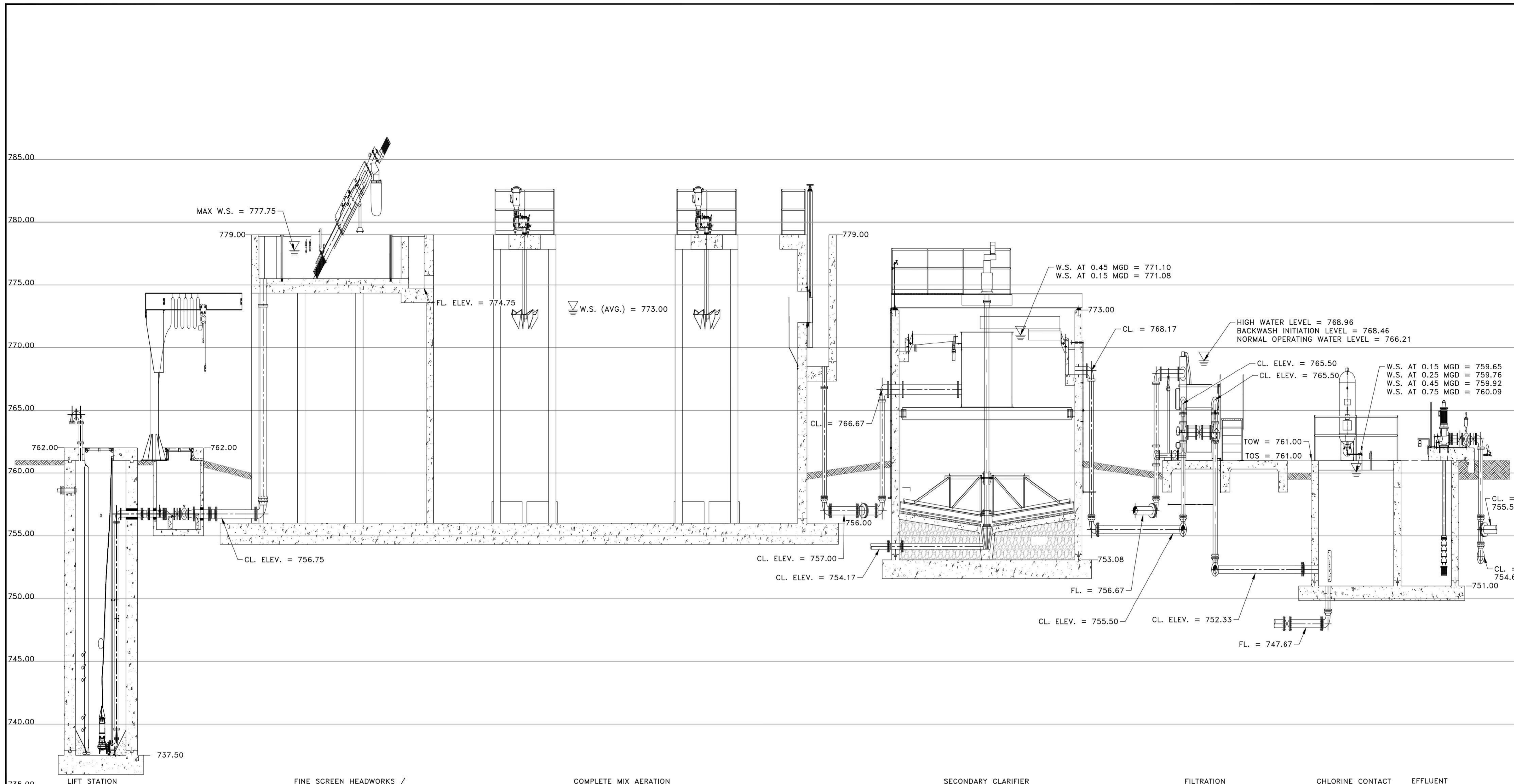


REVISIONS	
REV.	DATE
A	07/19/2022
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KP	BY
DV	CHKD

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CHECKED BY: DV
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PR. NO: 701-023-300
FILE: 20200701023000

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PROPOSED YARD PIPING PLAN
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS



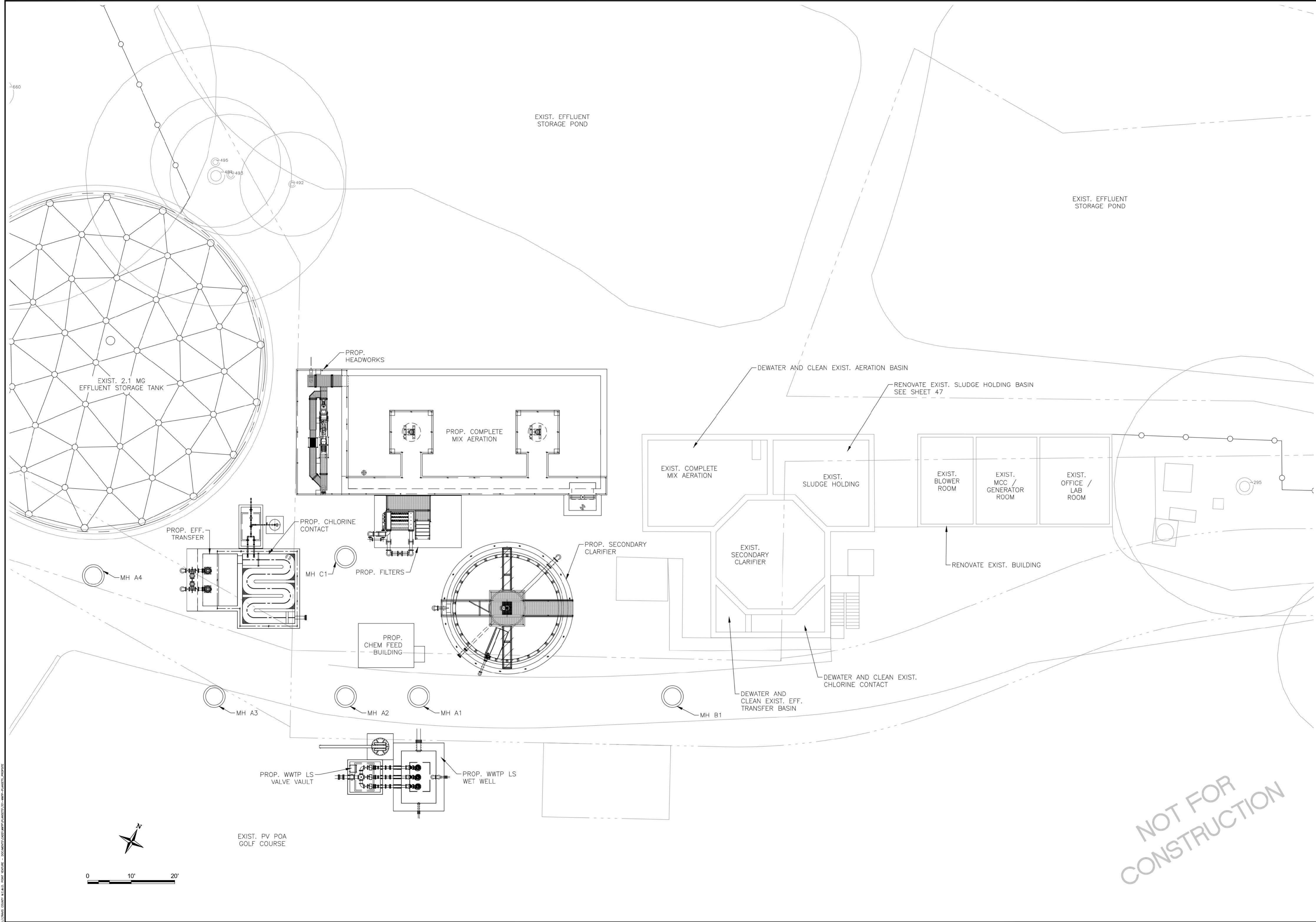
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A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV

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CHECKED BY: DV
SCALE: NONE
DATE: 9/9/2022
PR. NO: 701-023-300
FILE: \\www.tribydro.com

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HYDRAULIC PROFILE (1 OF 2)
 0.15 MGD WWTP
 TRAVIS COUNTY W.C.&I.D. POINT VENTURE
 POINT VENTURE, TEXAS

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REV.	DATE	DESCRIPTION	BY	CHKD
A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV

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PROPOSED SITE PLAN
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS

SHEET
11
 11 OF 83
 REV: A

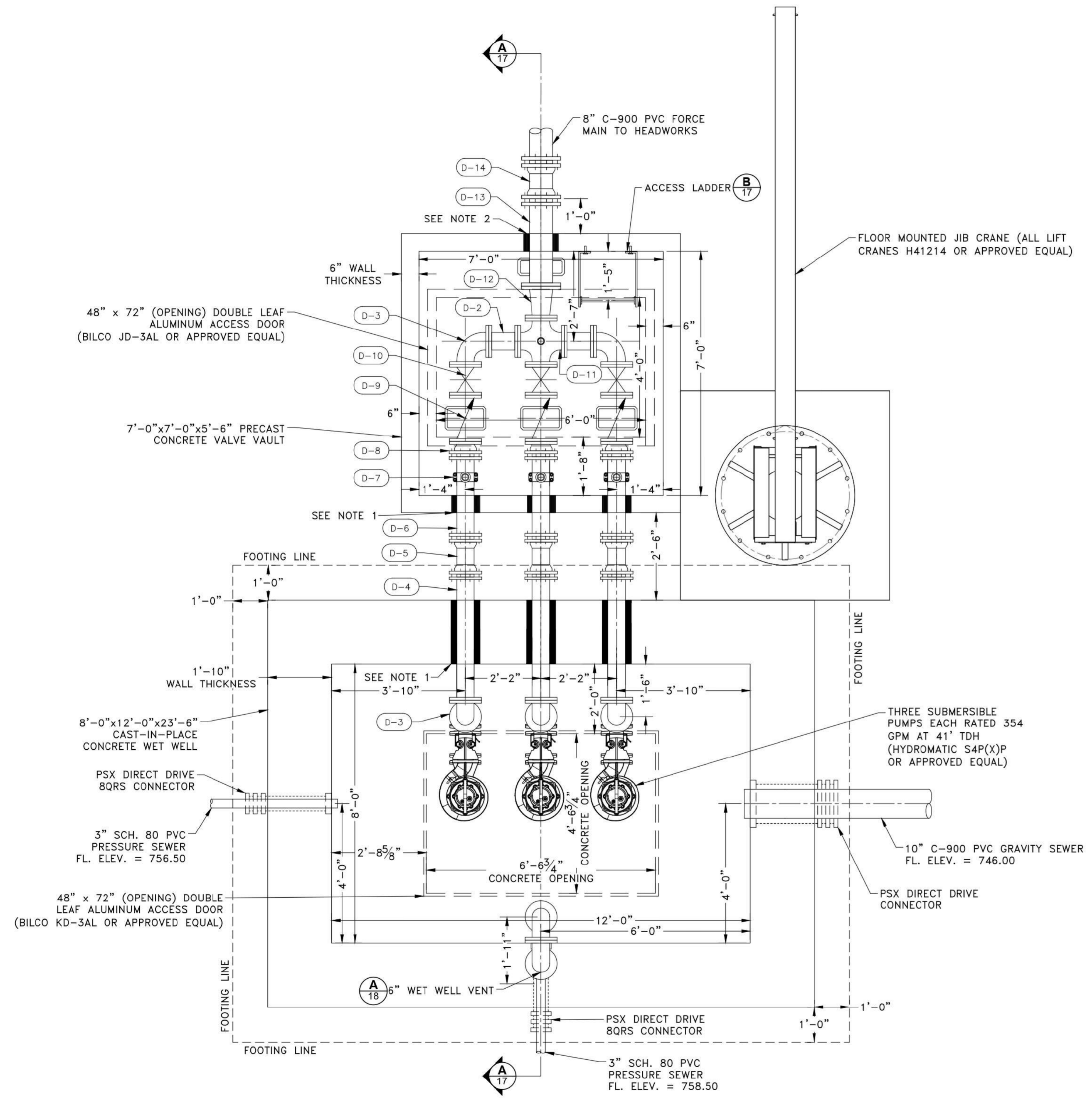
LIFT STATION PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
D-1	6" X 4" REDUCER	3	FLANGED, CONCENTRIC
D-2	6" SPOOL PIECE	5	FLANGED
D-3	6" 90° BEND	5	FLANGED
D-4	6" SPOOL PIECE	3	FLG. X P.E.
D-5	6" SOLID SLEEVE	3	M.J. LONG SLEEVE WITH MEGALUGS
D-6	6" SPOOL PIECE	3	P.E. X P.E.
D-7	2" SERVICE SADDLE ASSEMBLY	3	SEE NOTE 3
D-8	6" FLANGED ADAPTER	3	SMITH-BLAIR #912 WITH STUDS
D-9	6" CHECK VALVE	3	FLANGED, O.L. & W
D-10	6" GATE VALVE	3	FLANGED, N.R.S.
D-11	6" CROSS	1	FLANGED WITH 2" TAP & 2" BALL VALVE ON A BOSS
D-12	8" X 6" REDUCER	1	FLANGED, CONCENTRIC
D-13	8" SPOOL PIECE	1	FLG. X P.E.
D-14	8" SOLID SLEEVE	1	M.J. LONG SLEEVE WITH MEGALUGS

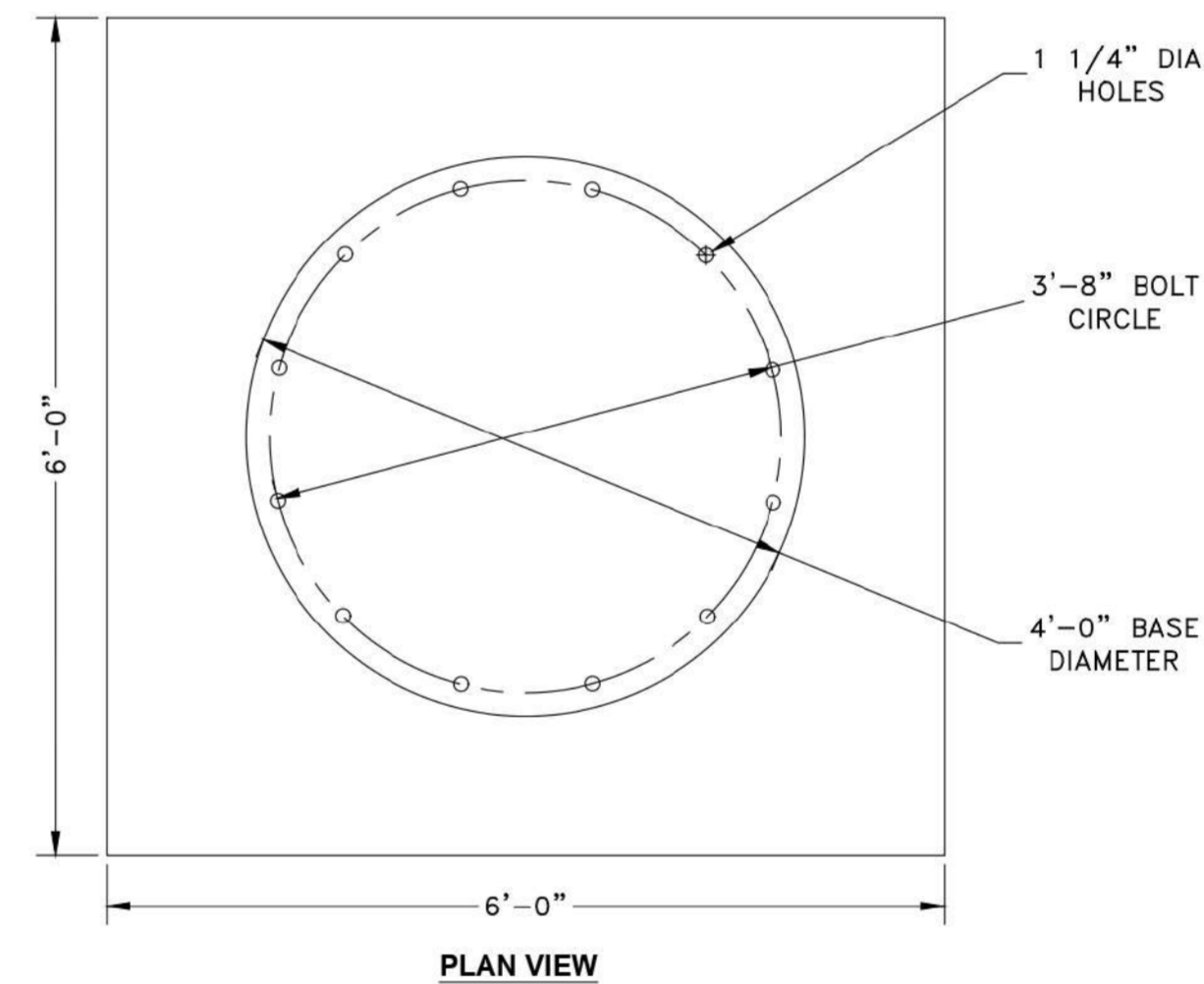
NOTE: ALL PIPE AND FITTINGS ARE DUCTILE IRON UNLESS NOTED OTHERWISE

LIFT STATION NOTES:

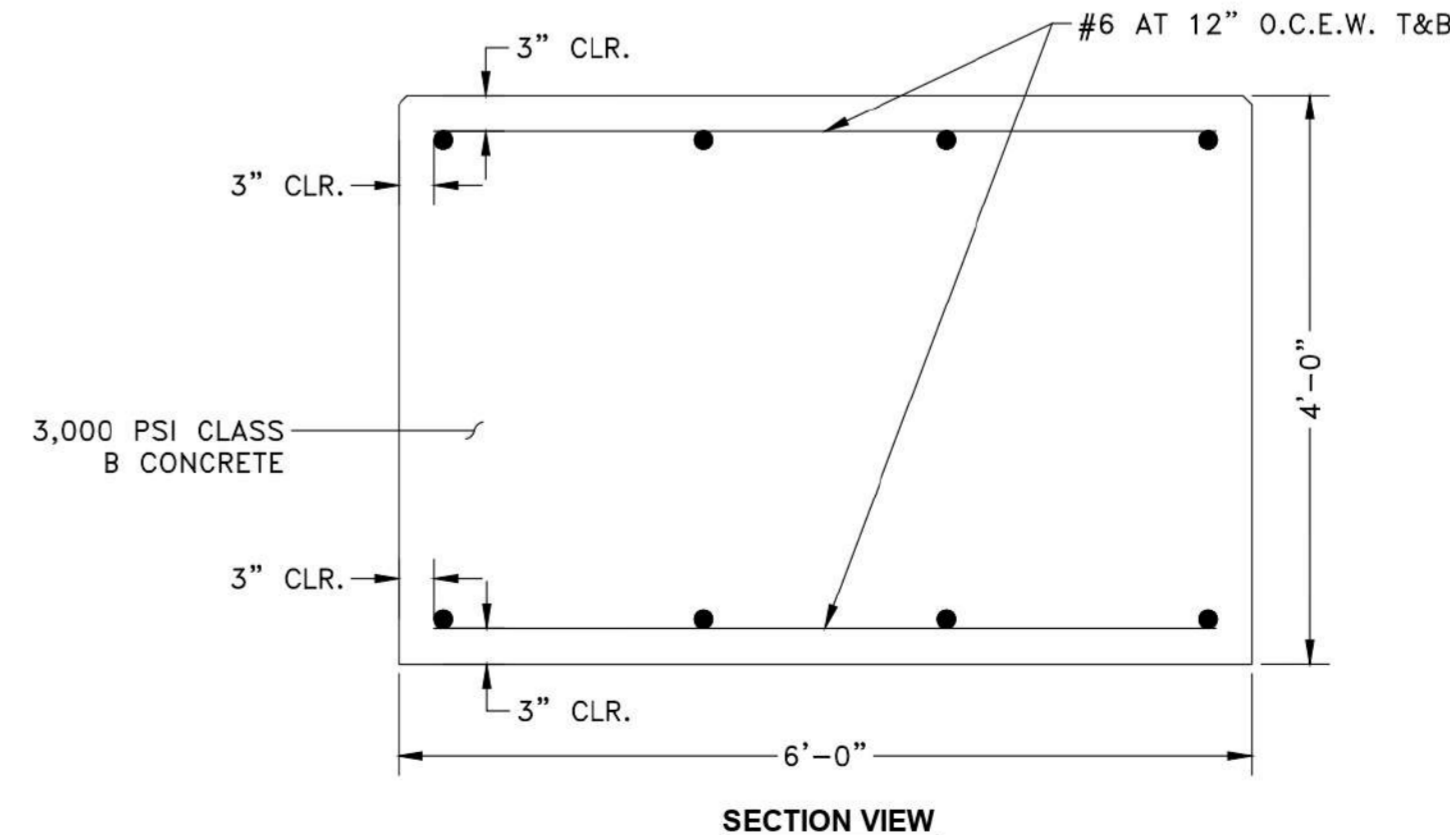
- INSTALL A 10" I.D. BLOCKOUT. AFTER INSTALLATION OF 6" FLG. X P.E. AND P.E. X P.E. SPOOL PIECE, FILL ANNULAR SPACE WITH PSI LINK SEAL MODULAR SEAL.
- INSTALL A 12" I.D. BLOCKOUT. AFTER INSTALLATION OF 8" FLG. X P.E. SPOOL PIECE, FILL ANNULAR SPACE WITH PSI LINK SEAL MODULAR SEAL.
- SERVICE SADDLE ASSEMBLY SHALL CONSIST OF: SMITH-BLAIR #317 WITH 2" NPT TAP, 2"x1" S.S. BUSHING, 1" S.S. NIPPLE, AND 1" S.S. BALL VALVE.
- ALL HARDWARE (NUTS, BOLTS, WASHERS, ANCHORS, ETC.) INSTALLED IN THE WET WELL SHALL BE 304 S.S.
- INTERIOR OF WET WELL SHALL BE COATED WITH RAVEN 405 OR APPROVED EQUAL.
- FILL VOIDS WITH NON-SHRINK GROUT AT WALL PENETRATIONS. SIKAFLEX 2C NS OR APPROVED EQUAL.



A LIFT STATION - PLAN VIEW
SCALE: 1/2" = 1'-0"



PLAN VIEW



SECTION VIEW

B JIB CRANE FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

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A	07/16/2022			KP	DV

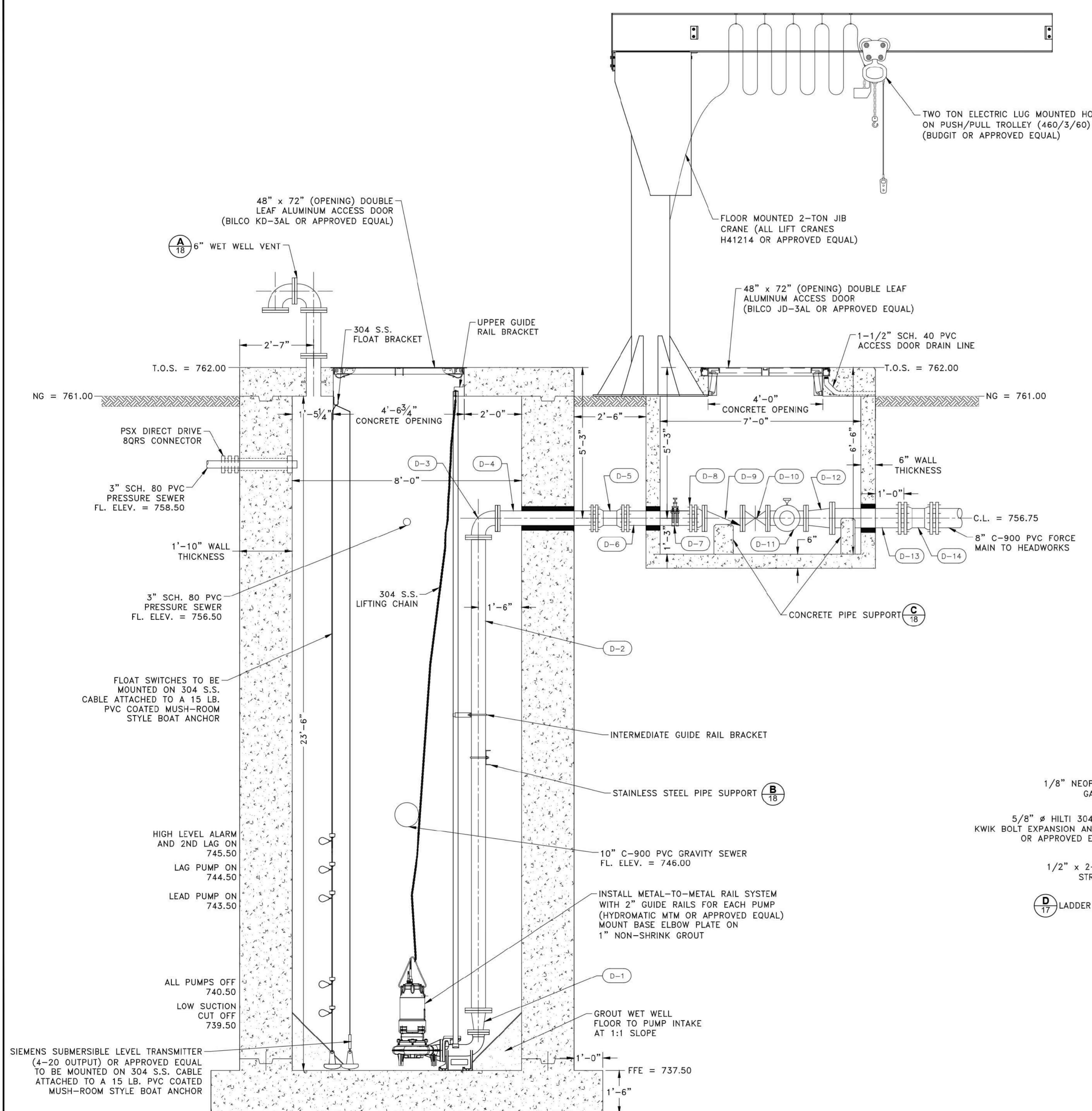
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LIFT STATION - EQUIPMENT PLAN VIEW

0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS

SHEET
16
 16 OF 83
 REV: A



A LIFT STATION - SECTION VIEW
SCALE: 1/2" = 1'-0"

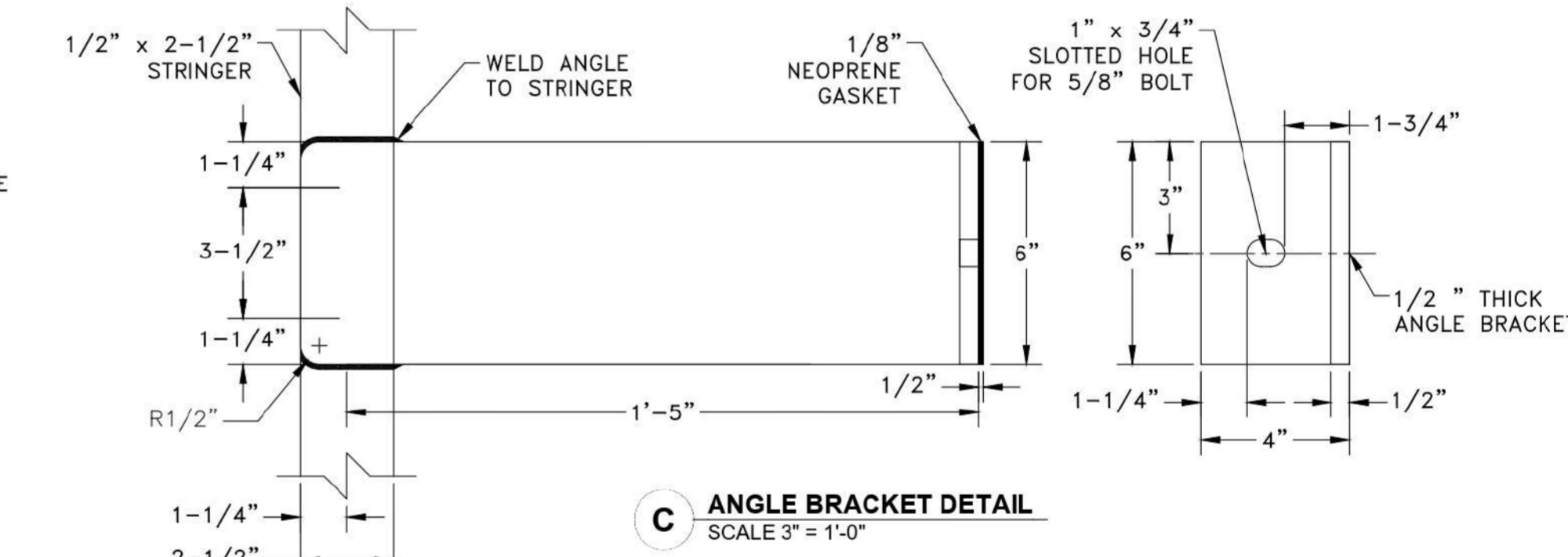
LIFT STATION PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
D-1	6" X 4" REDUCER	3	FLANGED, CONCENTRIC
D-2	6" SPOOL PIECE	5	FLANGED
D-3	6" 90° BEND	5	FLANGED
D-4	6" SPOOL PIECE	3	FLG. X P.E.
D-5	6" SOLID SLEEVE	3	M.J. LONG SLEEVE WITH MEGALUGS
D-6	6" SPOOL PIECE	3	P.E. X P.E.
D-7	2" SERVICE SADDLE ASSEMBLY	3	SEE NOTE 3
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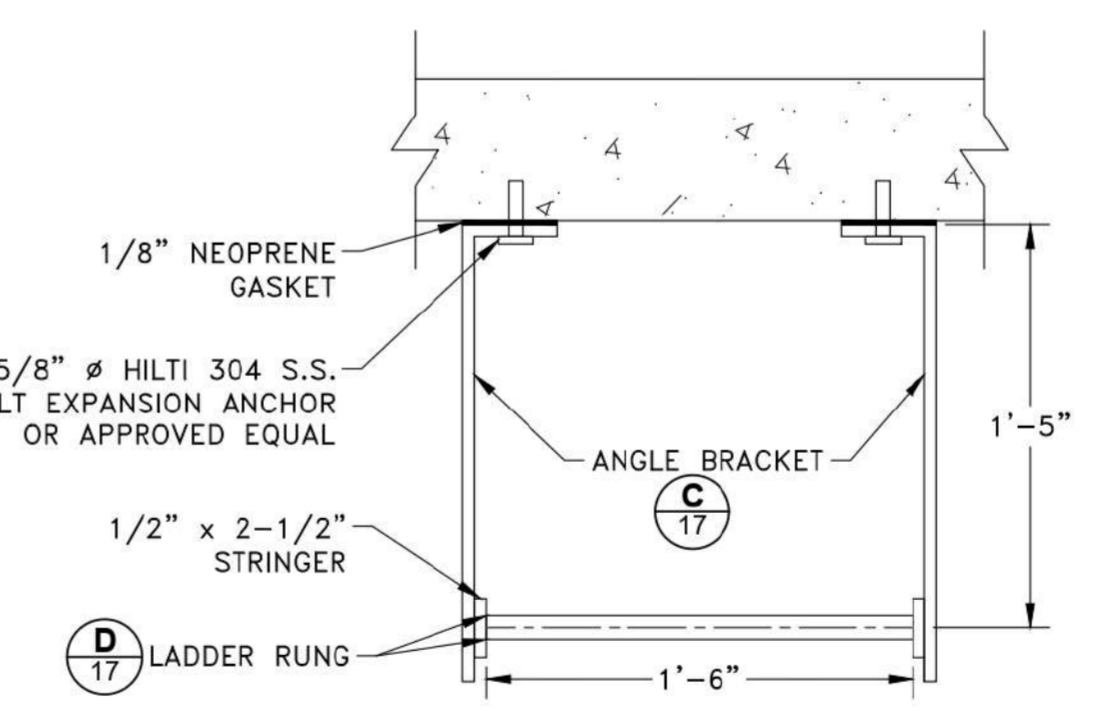
NOTE: ALL PIPE AND FITTINGS ARE DUCTILE IRON UNLESS NOTED OTHERWISE

LIFT STATION NOTES:

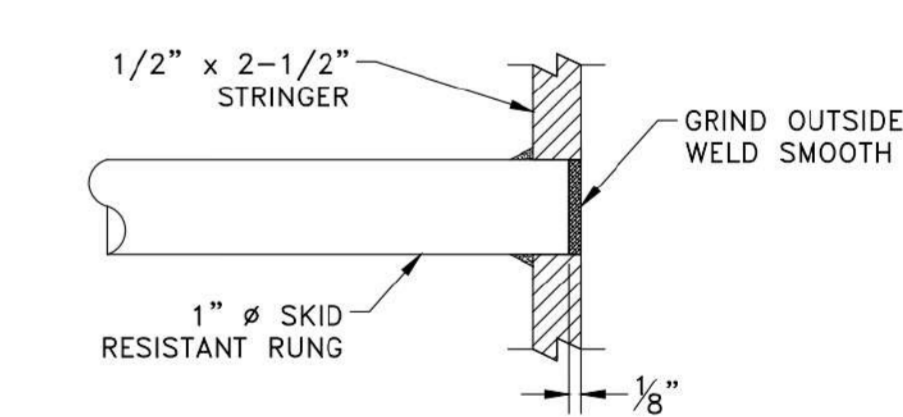
- INSTALL A 10" I.D. BLOCKOUT. AFTER INSTALLATION OF 6" FLG. X P.E. AND P.E. X P.E. SPOOL PIECE, FILL ANNULAR SPACE WITH PSI LINK SEAL MODULAR SEAL.
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- ALL HARDWARE (NUTS, BOLTS, WASHERS, ANCHORS, ETC.) INSTALLED IN THE WET WELL SHALL BE 304 S.S.
- INTERIOR OF WET WELL SHALL BE COATED WITH RAVEN 405 OR APPROVED EQUAL.
- FILL VOIDS WITH NON-SHRINK GROUT AT WALL PENETRATIONS. SIKAFLEX 2C NS OR APPROVED EQUAL.



C ANGLE BRACKET DETAIL
SCALE 3" = 1'-0"



B ACCESS LADDER DETAIL
SCALE 1-1/2" = 1'-0"



D LADDER RUNG DETAIL
SCALE 6" = 1'-0"

LADDER NOTES:

- LADDER SHALL BE ANODIZED ALUMINUM 6061-T6.
- WELDS SHALL BE 1/4" CONTINUOUS FILLET AT ALL CONTACT SURFACES, UNLESS NOTED OTHERWISE.
- ALL OUTSIDE WELDS SHALL BE GRINDING SMOOTH.
- RUNGS SHALL BE SLIP RESISTANT.
- FIRST RUNG OFF THE FLOOR SHALL BE INSTALLED 6" FROM RUNG CENTERLINE TO FINISH FLOOR.

NOT FOR CONSTRUCTION

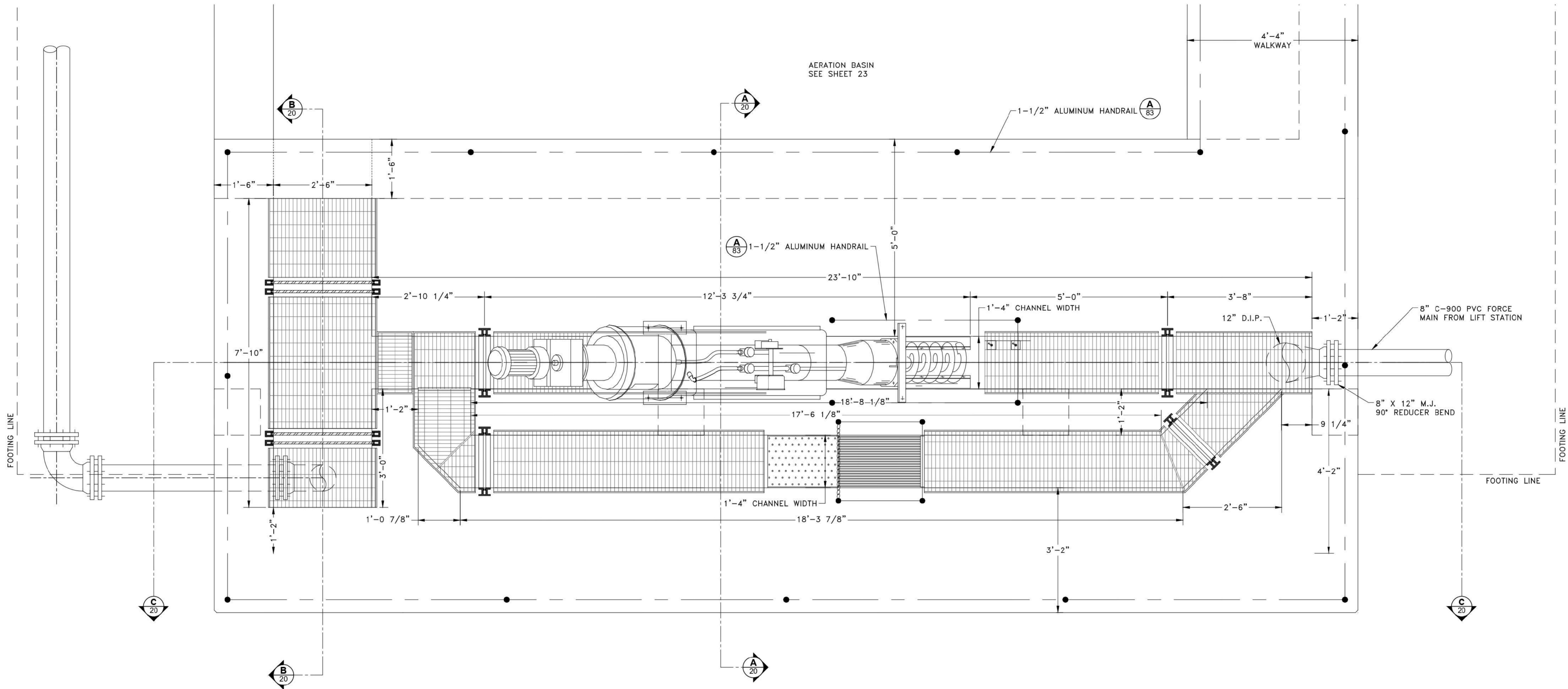
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A	07/18/2022						

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LIFT STATION - EQUIPMENT SECTIONS AND DETAILS	0.15 MGD WWTP TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS
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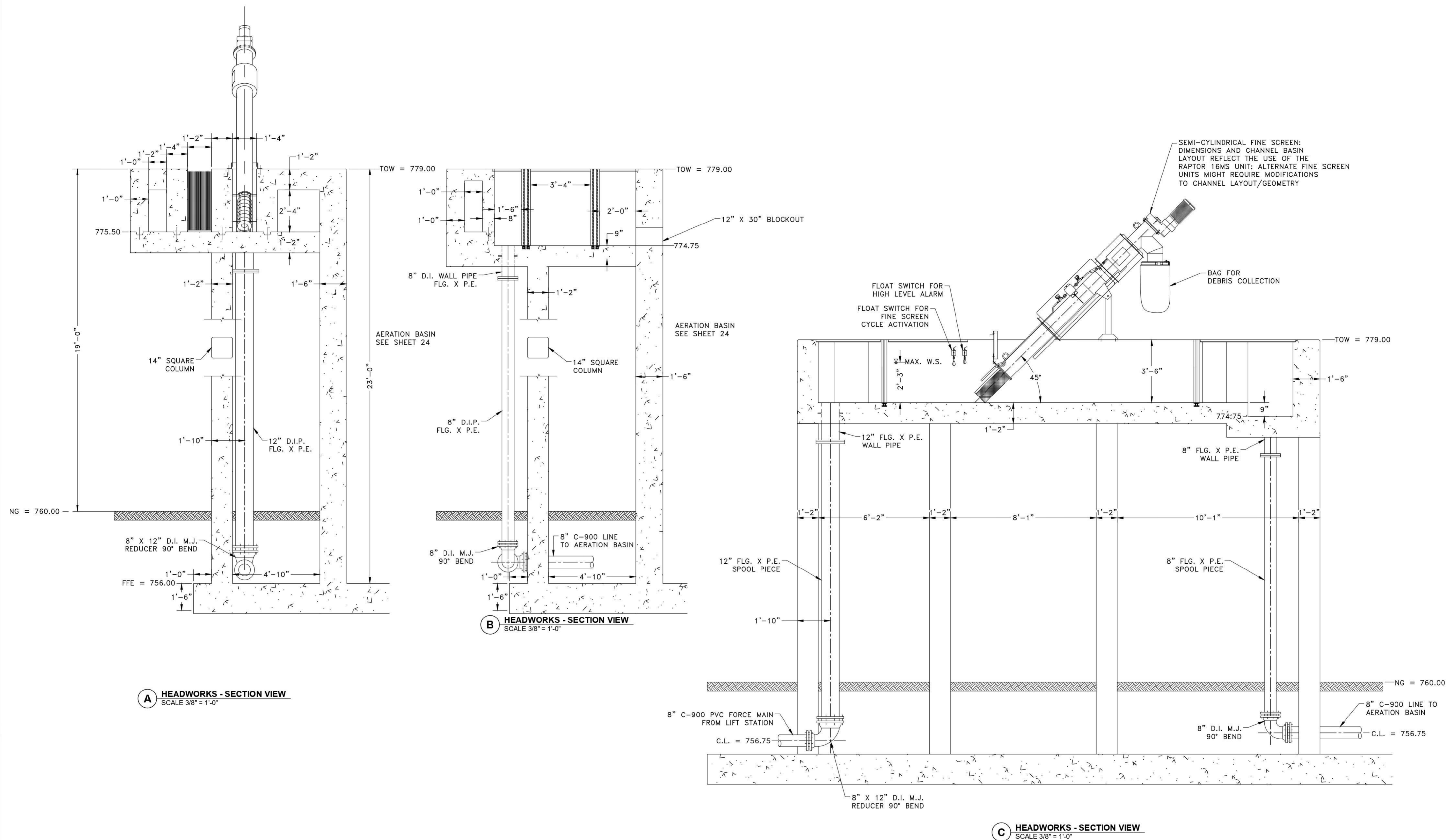
SHEET 17 17 OF 83	REV: A
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A HEADWORKS - PLAN VIEW
SCALE: 3/4" = 1'-0"

**NOT FOR
CONSTRUCTION**

DRAWN BY: KP		DESIGNED BY: DV, SY		CHECKED BY: DV		SCALE: AS SHOWN		DATE: 8/15/2022		PR. NO: 701-023-300		FILE: 20220815-023-300																
HEADWORKS - EQUIPMENT PLAN VIEW		0.15 MGD WWTP		TRAVIS COUNTY W.C.&I.D. POINT VENTURE		POINT VENTURE, TEXAS		SHEET 19 19 OF 83		REV: A		<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>CHKD</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>07/19/2022</td> <td>ISSUE FOR 90% DESIGN</td> <td>KP</td> <td>DV</td> </tr> <tr> <td></td> <td></td> <td>REVISIONS</td> <td></td> <td></td> </tr> </tbody> </table>		REV.	DATE	DESCRIPTION	BY	CHKD	A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV			REVISIONS		
REV.	DATE	DESCRIPTION	BY	CHKD																								
A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV																								
		REVISIONS																										



SEMI-CYLINDRICAL FINE SCREEN:
DIMENSIONS AND CHANNEL BASIN
LAYOUT REFLECT THE USE OF THE
RAPTOR 16MS UNIT; ALTERNATE FINE SCREEN
UNITS MIGHT REQUIRE MODIFICATIONS
TO CHANNEL LAYOUT/GEOMETRY

**NOT FOR
CONSTRUCTION**

REV.	DATE	DESCRIPTION	BY	CHKD
A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV

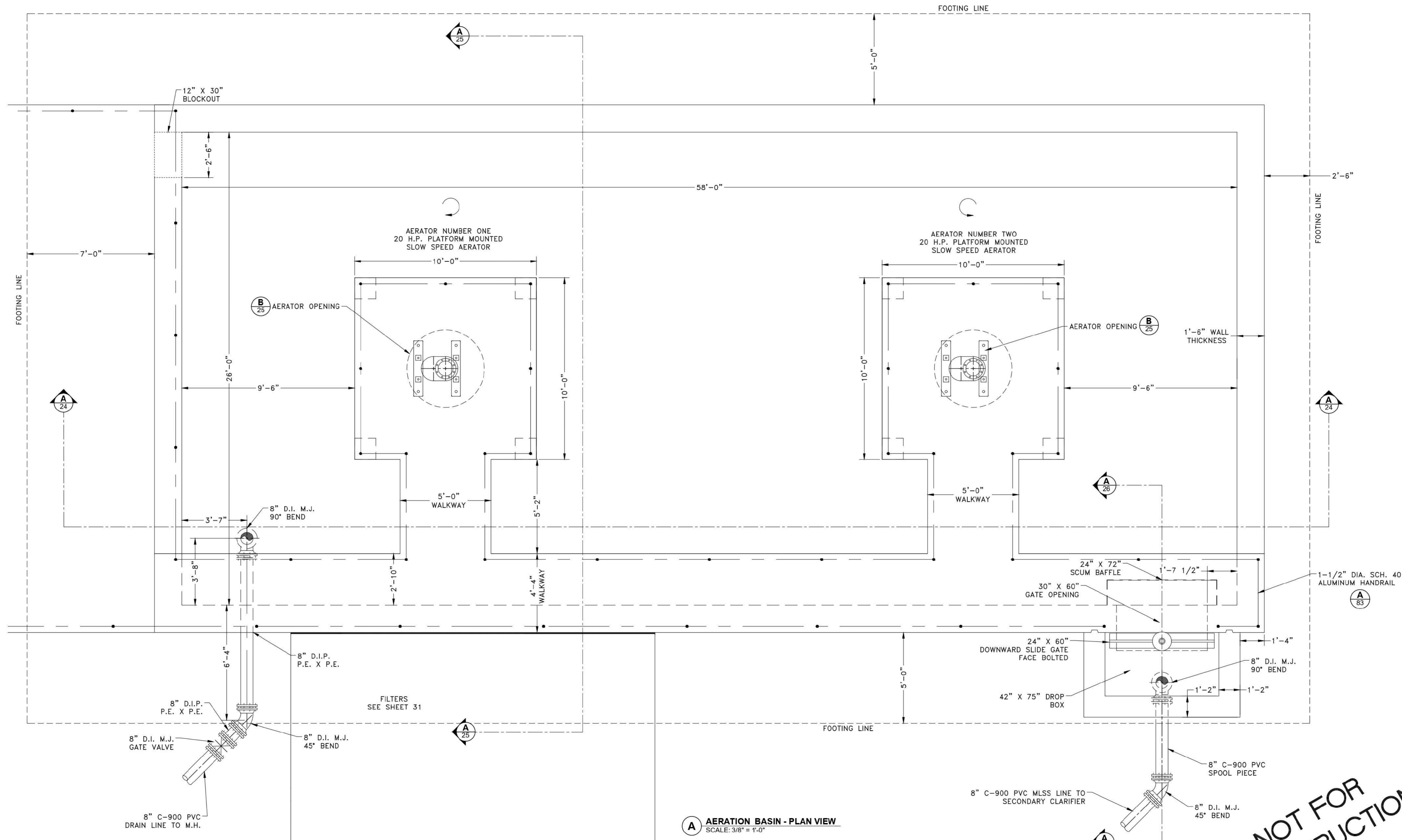
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DESIGNED BY: DV, SY
CHECKED BY: DV
SCALE: AS SHOWN
DATE: 9/12/2022
PR. NO: 701-023-300
FILE: 20-0000-0000-0000-0000

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**FINE SCREEN - EQUIPMENT
SECTIONS AND DETAILS**

0.15 MGD WWTP

**TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS**



A AERATION BASIN - PLAN VIEW
SCALE: 3/8" = 1'-0"

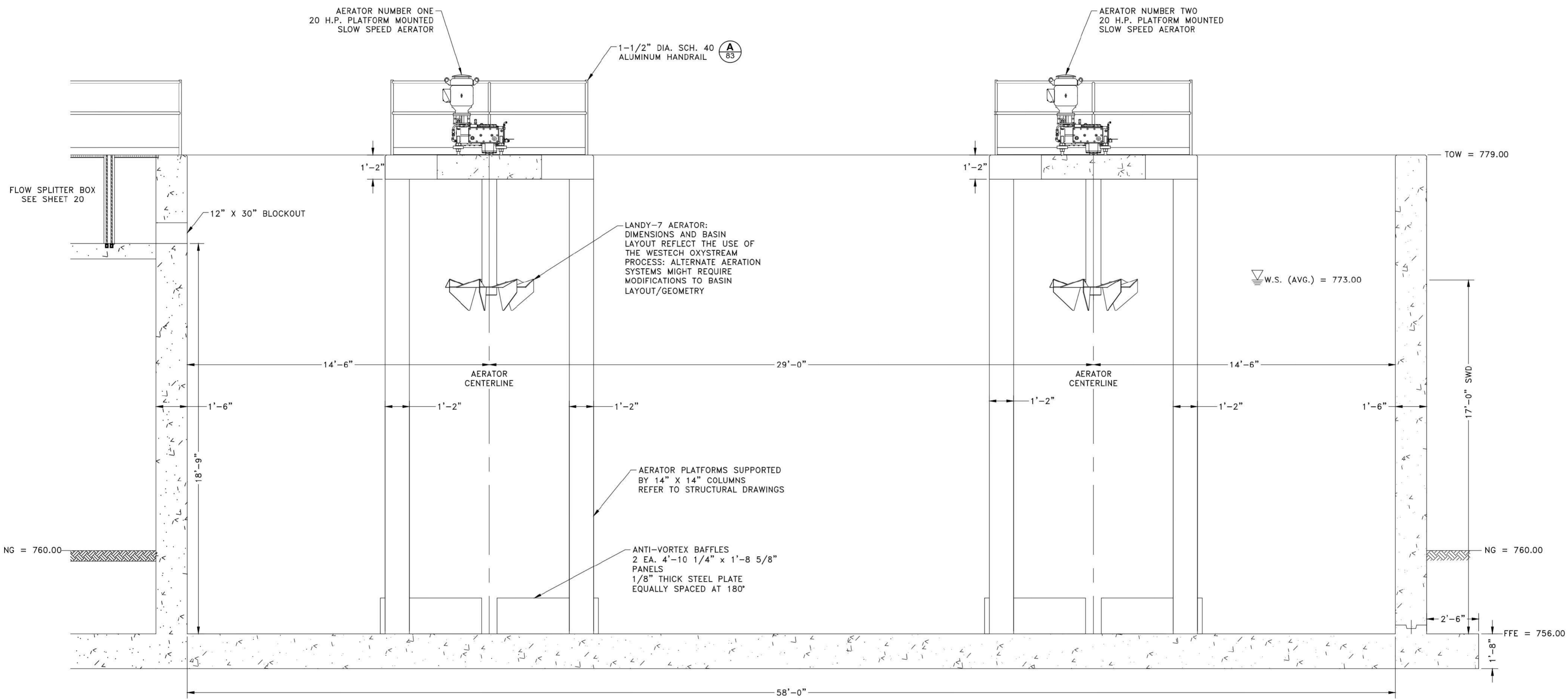
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	CHKD
A	07/18/2022	ISSUE FOR 90% DESIGN	KP	DV

DRAWN BY: KP
DESIGNED BY: DV, SY
CHECKED BY: DV
SCALE: AS SHOWN
DATE: 9/7/2022
PR. NO: 701-023-300
FILE: \\www.comcast.net\user\j...r

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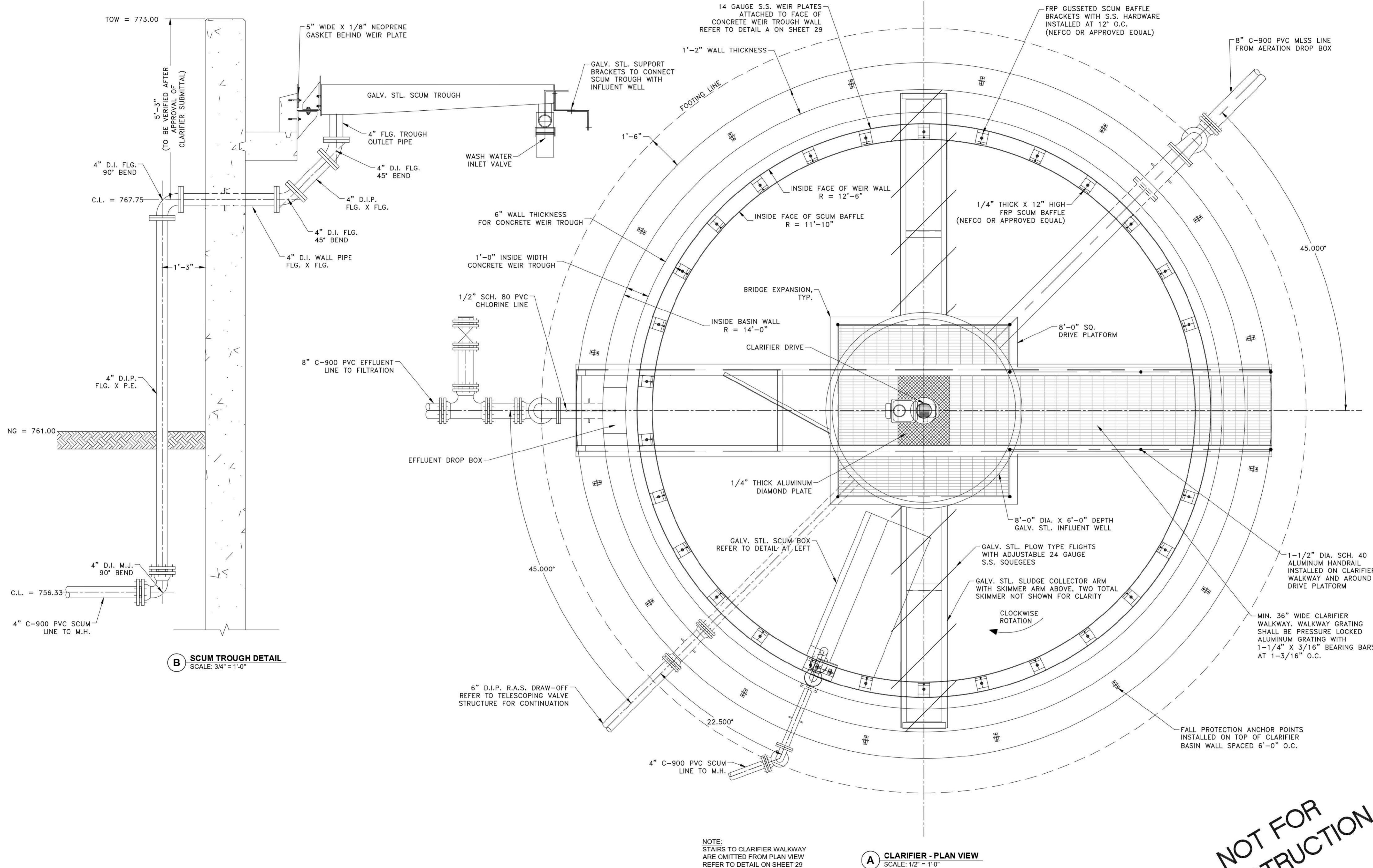
AERATION - EQUIPMENT PLAN VIEW
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS



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

**NOT FOR
CONSTRUCTION**

DRAWN BY: KP		DESIGNED BY: DV, SY		CHECKED BY: DV		SCALE: AS SHOWN		DATE: 9/7/2022		PR. NO: 701-023-300		FILE: 20220907-023-300	
ISSUE FOR 90% DESIGN		REV. DATE		DESCRIPTION		BY		KP		DV		CHKD	
A		07/18/2022		ISSUE FOR 90% DESIGN		KP		DV		CHKD		REVISIONS	
<p>Trihydro <small>Engineering Firm F-131 Texas Survey Firm 1005 E. Saint Elmo Rd Building 7 Austin, Texas 78745 (P) 512-462-3208 (F) 512-462-3584 www.trihydro.com</small></p>													
<p>AERATION - EQUIPMENT SECTIONS AND DETAILS (1 OF 3)</p> <p>0.15 MGD WWTP</p> <p>TRAVIS COUNTY W.C.&I.D. POINT VENTURE</p> <p>POINT VENTURE, TEXAS</p>													
<p>SHEET 24 24 OF 83</p>													
<p>REV: A</p>													



B SCUM TROUGH DETAIL
SCALE: 3/4" = 1'-0"

A CLARIFIER - PLAN VIEW
SCALE: 1/2" = 1'-0"

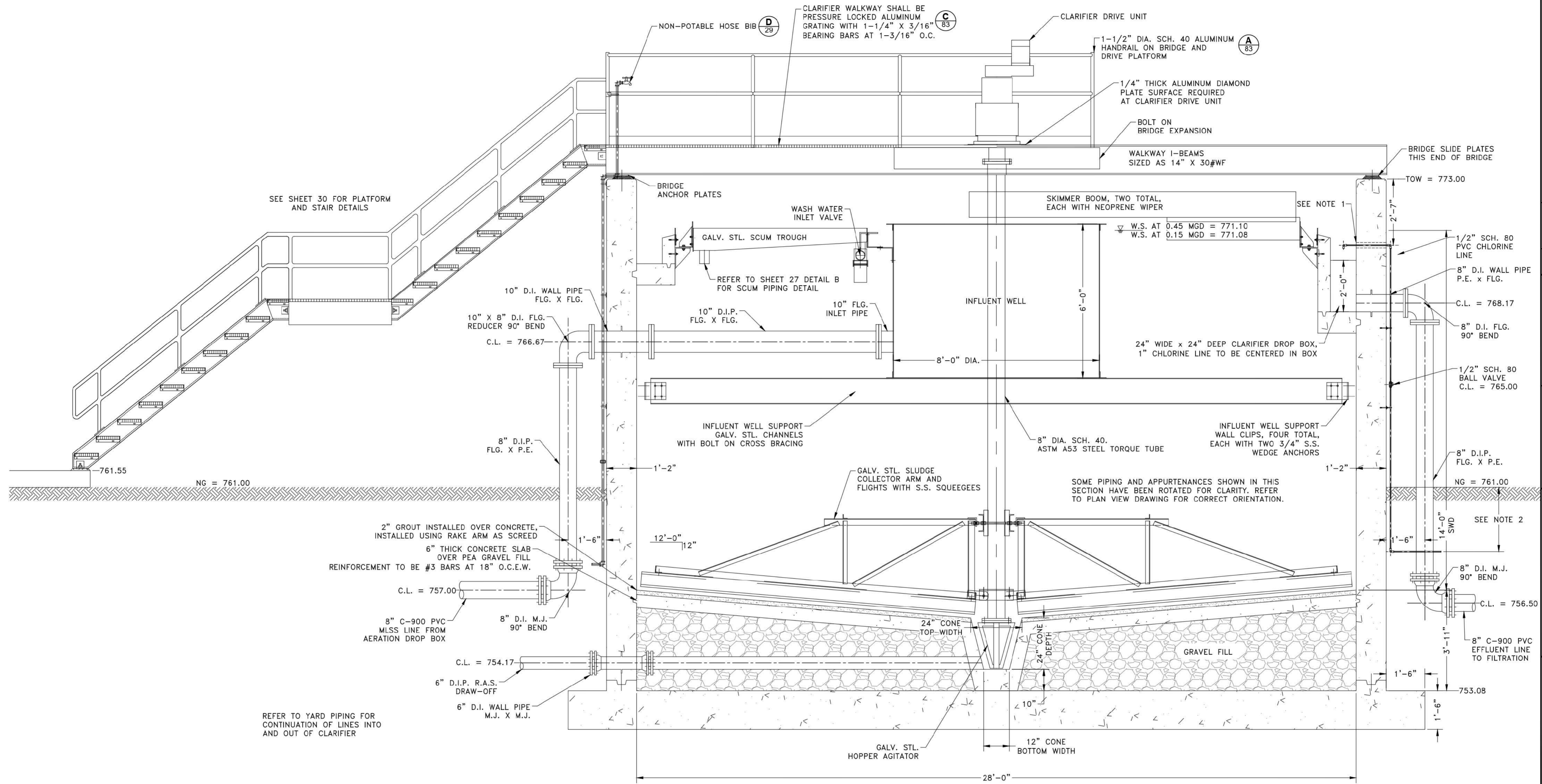
NOTE:
STAIRS TO CLARIFIER WALKWAY ARE OMITTED FROM PLAN VIEW REFER TO DETAIL ON SHEET 29

NOT FOR CONSTRUCTION

DRAWN BY: KP		DESIGNED BY: DV, SY		CHECKED BY: DV		SCALE: AS SHOWN		DATE: 9/9/2022		PR. NO: 701-023-300		FILE: 701-023-300-CLARIFIER	
ISSUE FOR 90% DESIGN		REV. DATE		DESCRIPTION		REVISIONS		BY		KP		DV	
A		07/19/2022		ISSUE FOR 90% DESIGN		REVISIONS		BY		KP		DV	
TRAVIS COUNTY W.C.&I.D. POINT VENTURE		POINT VENTURE, TEXAS		CLARIFIER - EQUIPMENT		PLAN VIEW		0.15 MGD WWTP		SHEET		27	
TRAVIS COUNTY W.C.&I.D. POINT VENTURE		POINT VENTURE, TEXAS		CLARIFIER - EQUIPMENT		PLAN VIEW		0.15 MGD WWTP		SHEET		27 OF 83	
TRAVIS COUNTY W.C.&I.D. POINT VENTURE		POINT VENTURE, TEXAS		CLARIFIER - EQUIPMENT		PLAN VIEW		0.15 MGD WWTP		REV: A		27 OF 83	

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

- CHLORINE PIPING NOTES:**
1. INSTALL 1" PVC SLEEVE IN WALL POUR. AFTER POUR, INSTALL 1/2" SCH. 80 PVC CHLORINE LINE AND FILL ANNULAR SPACE WITH SIKAFLEX 1-A.
 2. MIN. 30" COVER OVER CHLORINE LINE
 3. ABOVE GROUND CHLORINE PIPING SHALL BE INSULATED.
 4. ALL CHLORINE PIPING IS TO BE SECURELY SUPPORTED TO PREVENT VIBRATION OR STRESS. SPACING OF S.S. SUPPORTS SHALL NOT EXCEED 5'-0" O.C. MIN OF TWO SUPPORTS ON WALL.
 5. ALL PVC PIPING AND FITTINGS SHALL BE SCH. 80 UNLESS NOTED OTHERWISE. FITTINGS SHALL BE SLIP X SLIP. BALL VALVES SHALL BE TRUE UNION WITH VITON SEALS.

NOT FOR CONSTRUCTION

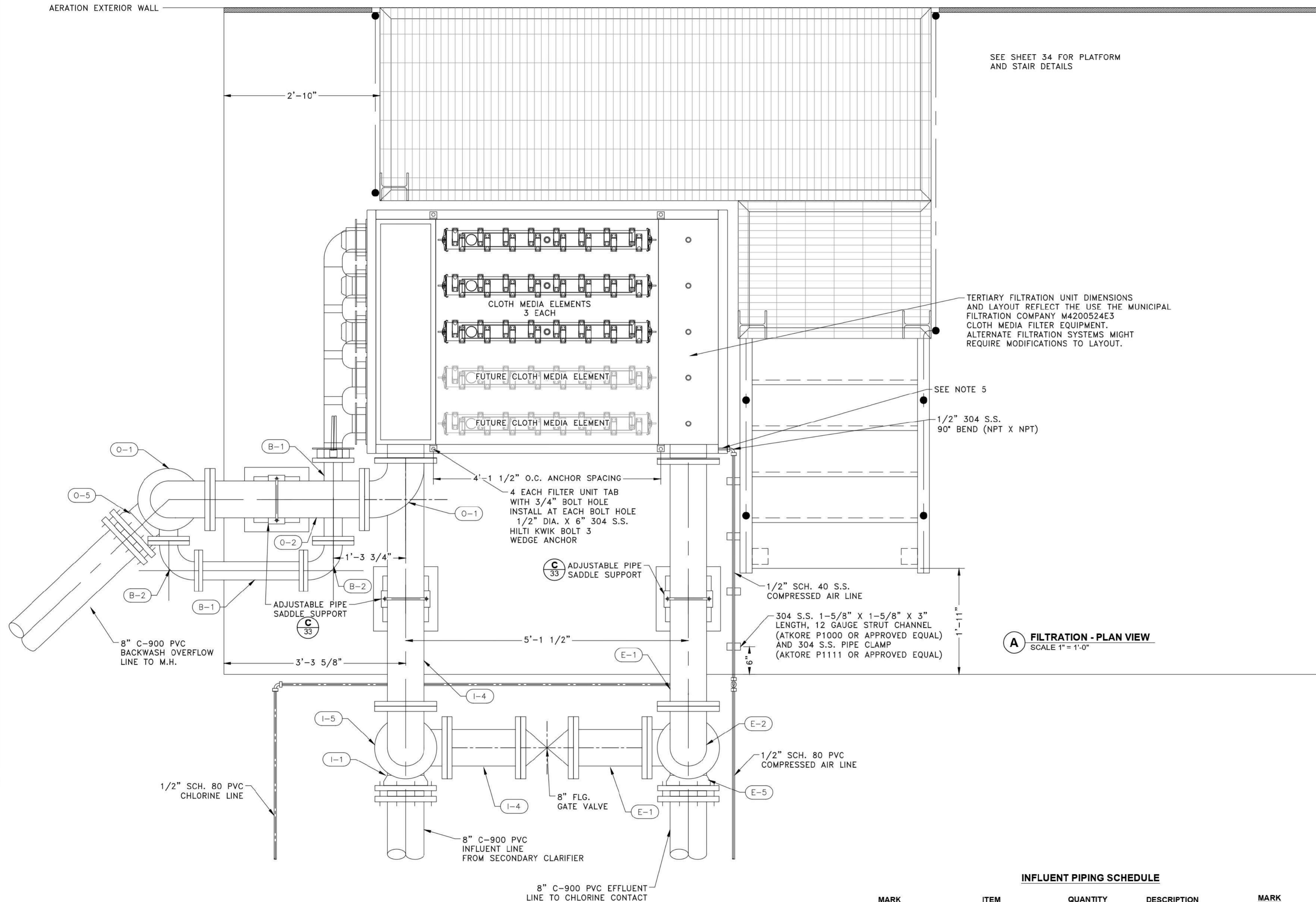
ISSUE FOR 90% DESIGN	DATE	REV.	DESCRIPTION
A	07/19/2022		
DRAWN BY: KP		DESIGNED BY: DV, SY	CHECKED BY: DV
SCALE: AS SHOWN		DATE: 9/9/2022	PR. NO: 701-023-300
FILE: \\swwp\power\clarifier		 <p>Texas Engineering Firm F-131 Texas Survey Firm 101942 Austin, Texas 78745 P 512-462-2308 F 512-462-3588</p>	
CLARIFIER - EQUIPMENT SECTIONS AND DETAILS (1 OF 3)		0.15 MGD WWTP TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS	
SHEET 28		28 OF 83	
REV: A			

AERATION BASIN
SEE SHEET 23

AERATION EXTERIOR WALL

SEE SHEET 34 FOR PLATFORM
AND STAIR DETAILS

NOT FOR
CONSTRUCTION



FILTRATION NOTES:

- SOME FILTER EQUIPMENT, PIPING, VALVING, AND APPURTENANCES ARE NOT SHOWN FOR CLARITY. REFER TO SECTION VIEW DRAWINGS.
- ALL FILTER UNIT MATERIALS AND FASTENERS SHALL BE 304 S.S.
- FILTER CONTROL PANEL FACTORY MOUNTED ON INFLUENT SIDE OF FILTER UNIT.
- FILTER UNIT AND ACCESSORIES SHALL BE SUPPLIED AS PART OF THE TERTIARY FILTRATION PACKAGE. REFER TO SPECIFICATIONS SECTION 11365.
- CONTRACTOR SHALL INSTALL THE 1/2" COMPRESSED AIR LINE PRIOR TO THE FILTER UNIT AIR SCOUR MANIFOLD. FILTER MANUFACTURER SHALL INSTALL THE REMAINING COMPRESSED AIR LINE AND ASSOCIATED APPURTENANCES AS PART OF THE TERTIARY FILTRATION PACKAGE.

INFLUENT PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
I-1	8" 90° BEND	1	M.J.
I-2	8" SPOOL PIECE	1	FLG. X P.E.
I-3	8" TEE	1	FLANGED
I-4	8" SPOOL PIECE	3	FLANGED
I-5	8" 90° BEND	1	FLANGED

EFFLUENT PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
E-1	8" SPOOL PIECE	3	FLANGED
E-2	8" 90° BEND	1	FLANGED
E-3	8" TEE	1	FLANGED
E-4	8" SPOOL PIECE	1	FLG. X P.E.
E-5	8" 90° BEND	1	M.J.

BACKWASH PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
B-1	4" SPOOL PIECE	2	FLANGED
B-2	4" 90° BEND	2	FLANGED

OVERFLOW PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
O-1	8" 90° BEND	2	FLANGED
O-2	8" SPOOL PIECE	2	FLANGED
O-3	8" X 4" TEE	1	FLANGED
O-4	8" SPOOL PIECE	1	FLG. X P.E.
O-5	8" 90° BEND	1	M.J.

DRAWN BY: KP
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CHECKED BY: DV
SCALE: AS SHOWN
DATE: 9/12/2022
PR. NO: 701-023-300
FILE: 20220912-023-300.dwg

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New Braunfels, Texas 78130
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FILTRATION - EQUIPMENT
PLAN VIEW
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS

LIVING COUNTY, TEXAS, POINT VENTURE - DOCUMENTS/LOGS/WWTP/PLANSET/31-8999-PLANSET_APR17.dwg

TOW AERATION = 779.00

INFLUENT PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
I-1	8" 90° BEND	1	M.J.
I-2	8" SPOOL PIECE	1	FLG. X P.E.
I-3	8" TEE	1	FLANGED
I-4	8" SPOOL PIECE	3	FLANGED
I-5	8" 90° BEND	1	FLANGED

EFFLUENT PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
E-1	8" SPOOL PIECE	3	FLANGED
E-2	8" 90° BEND	1	FLANGED
E-3	8" TEE	1	FLANGED
E-4	8" SPOOL PIECE	1	FLG. X P.E.
E-5	8" 90° BEND	1	M.J.

BACKWASH PIPING SCHEDULE

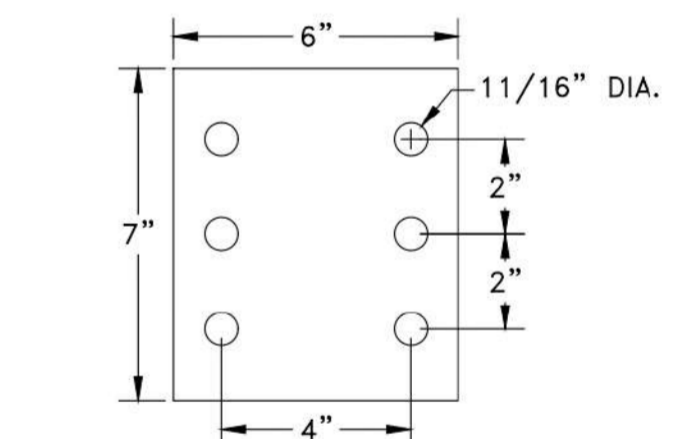
MARK	ITEM	QUANTITY	DESCRIPTION
B-1	4" SPOOL PIECE	2	FLANGED
B-2	4" 90° BEND	2	FLANGED

OVERFLOW PIPING SCHEDULE

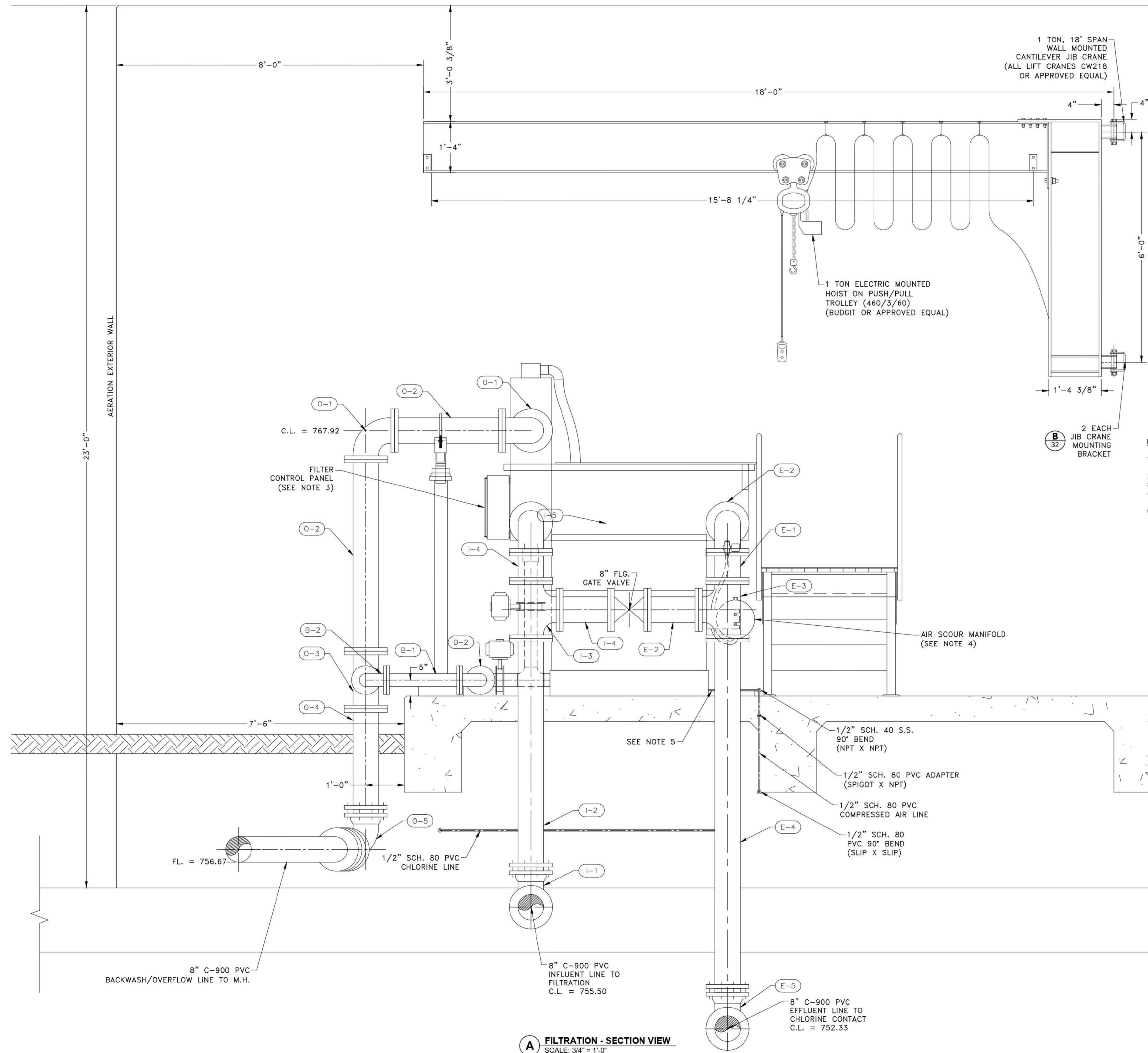
MARK	ITEM	QUANTITY	DESCRIPTION
O-1	8" 90° BEND	2	FLANGED
O-2	8" SPOOL PIECE	2	FLANGED
O-3	8" X 4" TEE	1	FLANGED
O-4	8" SPOOL PIECE	1	FLG. X P.E.
O-5	8" 90° BEND	1	M.J.

FILTRATION NOTES:

- SOME FILTER EQUIPMENT, PIPING, VALVING, AND APPURTENANCES ARE NOT SHOWN FOR CLARITY. REFER TO SECTION VIEW DRAWINGS.
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- FILTER UNIT AND ACCESSORIES SHALL BE SUPPLIED AS PART OF THE TERTIARY FILTRATION PACKAGE. REFER TO SPECIFICATION SECTION 11365.
- CONTRACTOR SHALL INSTALL THE 1/2" COMPRESSED AIR LINE PRIOR TO THE FILTER UNIT AIR SCOUR MANIFOLD. FILTER MANUFACTURER SHALL INSTALL THE REMAINING COMPRESSED AIR LINE AND ASSOCIATED APPURTENANCES AS PART OF THE TERTIARY FILTRATION PACKAGE.



B JIB CRANE MOUNTING BRACKET
SCALE: 3" = 1'-0"



A FILTRATION - SECTION VIEW
SCALE: 3/4" = 1'-0"

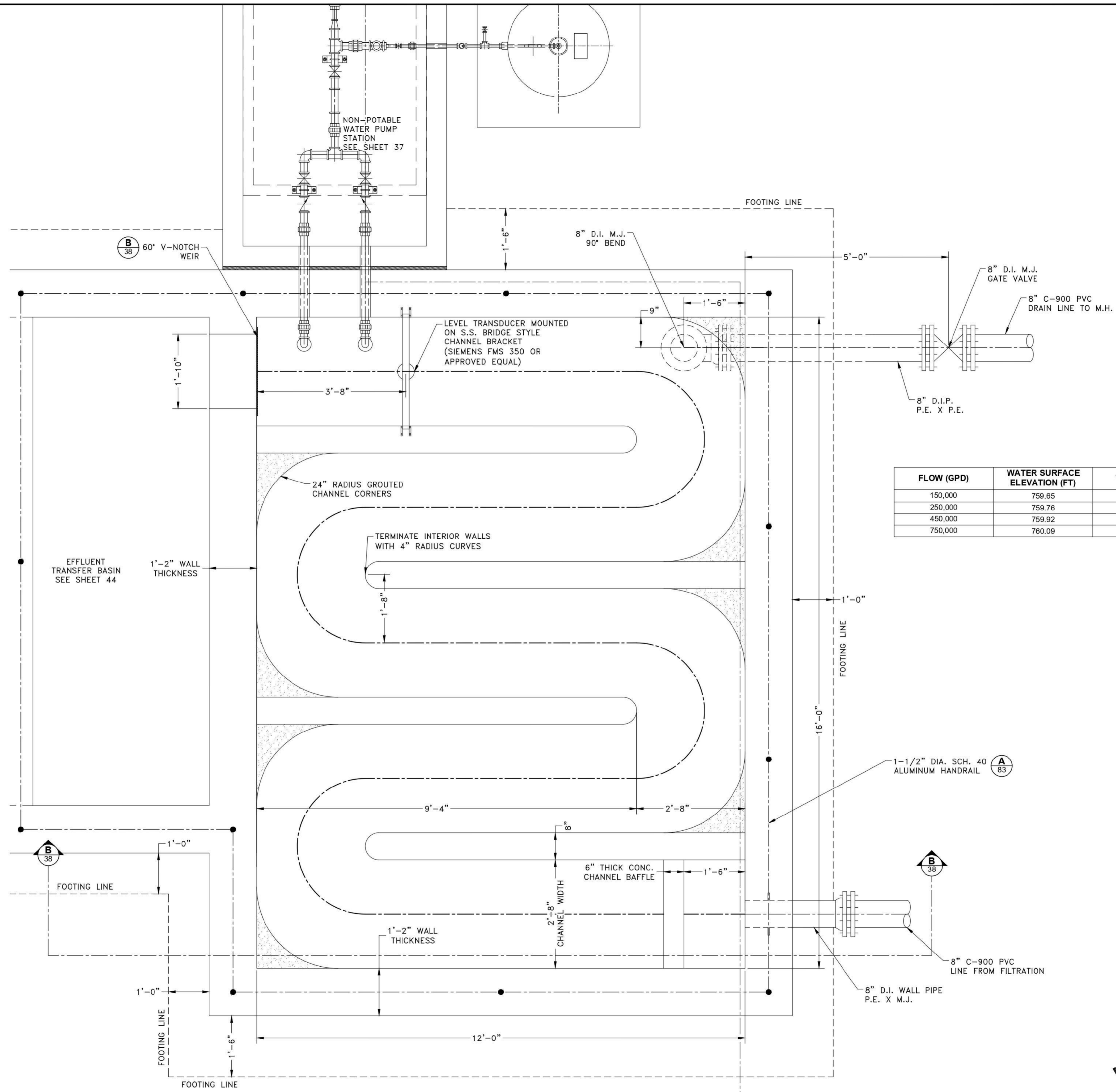
NOT FOR CONSTRUCTION

ISSUE FOR 90% DESIGN	DESCRIPTION	REV.	DATE
A		07/18/2022	

DESIGNED BY: DV, SY	CHECKED BY: DV	SCALE: AS SHOWN	DATE: 9/12/2022	PR. NO: 701-023-300	FILE: r:\work\p0222\023-300.rvt
DRAWN BY: KP					

TRAVIS COUNTY W.C.&I.D. POINT VENTURE	0.15 MGD WWTP
POINT VENTURE, TEXAS	

FILTRATION - EQUIPMENT SECTIONS AND DETAILS (1 OF 3)
SHEET 32 OF 83
REV: A



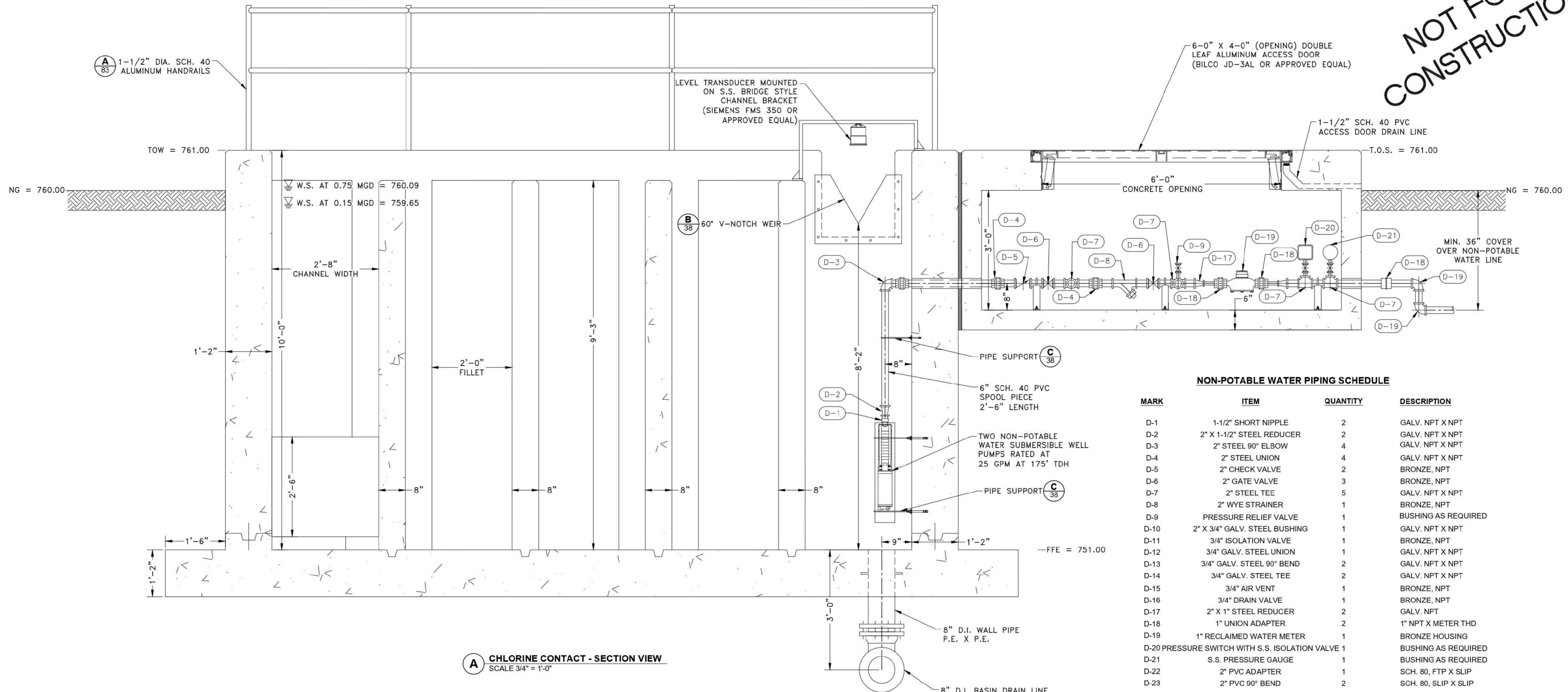
FLOW (GPD)	WATER SURFACE ELEVATION (FT)	VOLUME (CF)	DETENTION TIME (MIN)
150,000	759.65	1384.42	99.41
250,000	759.76	1402.07	60.41
450,000	759.92	1427.74	34.17
750,000	760.09	1455.01	20.90

A CHLORINE CONTACT BASIN - PLAN VIEW
SCALE: 3/4" = 1'-0"

NOT FOR CONSTRUCTION

<p>CHLORINE CONTACT - EQUIPMENT PLAN VIEW (1 OF 2)</p> <p>0.15 MGD WWTP</p> <p>TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS</p>	<p>SHEET 36 36 OF 83</p> <p>REV: A</p>
<p>DESIGNED BY: DV, SY</p> <p>CHECKED BY: DV</p> <p>SCALE: AS SHOWN</p> <p>DATE: 8/23/2022</p> <p>PR. NO: 701-023-300</p> <p>FILE: www.tribydro.com</p>	<p>TRAVIS COUNTY W.C.&I.D. POINT VENTURE 1005 E. Saint Elmo Rd Building 7 Austin, Texas 78745 (P) 512-462-3308 (F) 512-462-3544 www.tribydro.com</p>
<p>DRAWN BY: KP</p>	<p>ISSUE FOR 90% DESIGN</p>
<p>DESIGNED BY: DV, SY</p>	<p>REV. DATE DESCRIPTION</p>
<p>CHECKED BY: DV</p>	<p>REV. DATE DESCRIPTION</p>
<p>SCALE: AS SHOWN</p>	<p>REV. DATE DESCRIPTION</p>
<p>DATE: 8/23/2022</p>	<p>REV. DATE DESCRIPTION</p>
<p>PR. NO: 701-023-300</p>	<p>REV. DATE DESCRIPTION</p>
<p>FILE: www.tribydro.com</p>	<p>REV. DATE DESCRIPTION</p>
<p>TRAVIS COUNTY W.C.&I.D. POINT VENTURE 1005 E. Saint Elmo Rd Building 7 Austin, Texas 78745 (P) 512-462-3308 (F) 512-462-3544 www.tribydro.com</p>	<p>REV. DATE DESCRIPTION</p>

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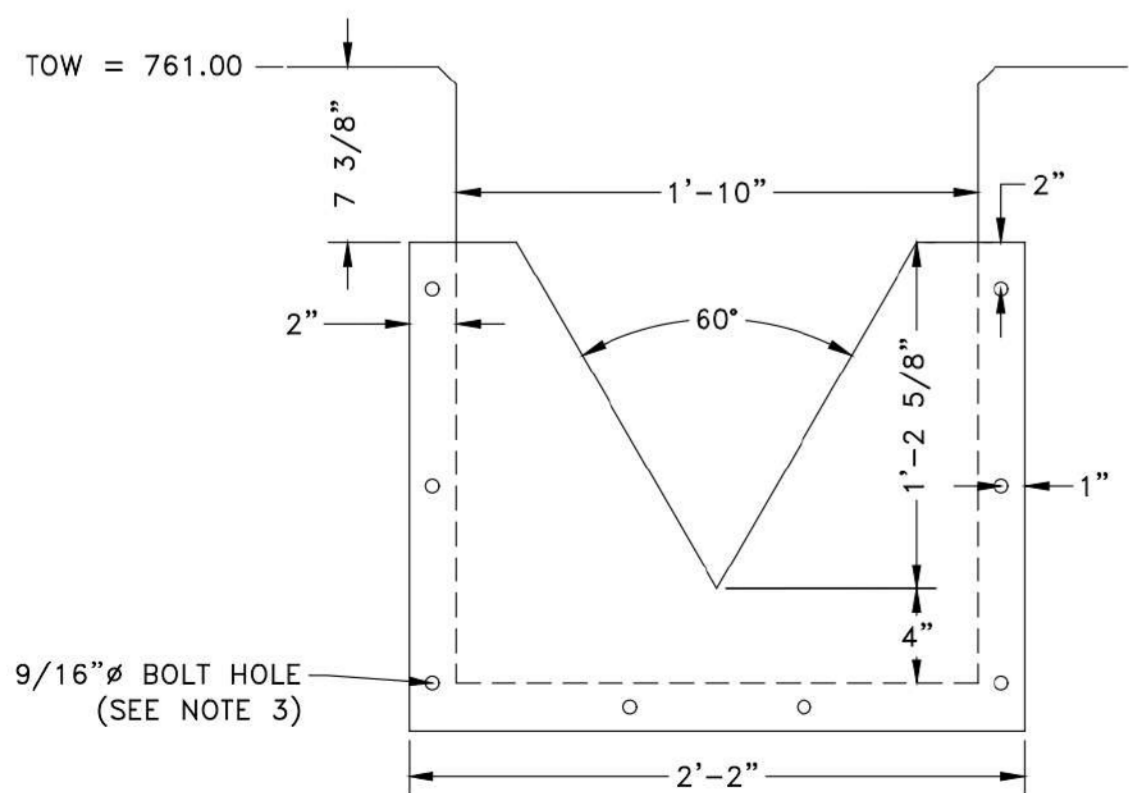


NON-POTABLE WATER PIPING SCHEDULE

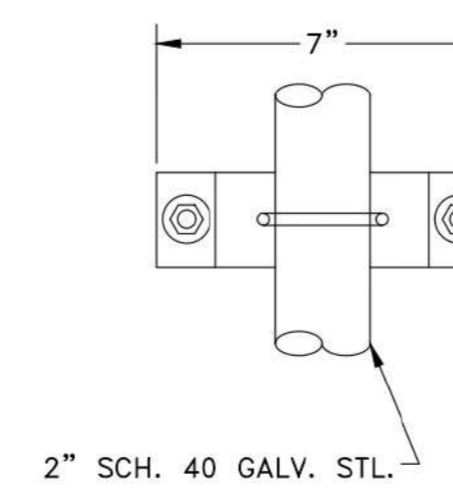
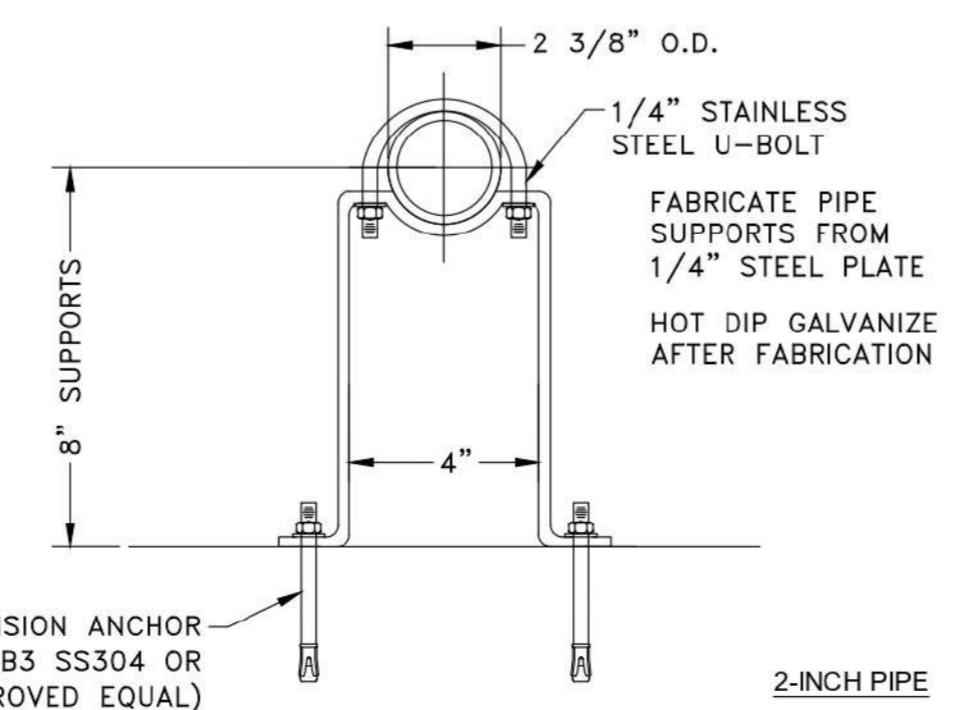
MARK	ITEM	QUANTITY	DESCRIPTION
D-1	1-1/2" SHORT NIPPLE	2	GALV. NPT X NPT
D-2	2" X 1-1/2" STEEL REDUCER	2	GALV. NPT X NPT
D-3	2" STEEL 90° ELBOW	4	GALV. NPT X NPT
D-4	2" STEEL UNION	4	GALV. NPT X NPT
D-5	2" CHECK VALVE	2	BRONZE, NPT
D-6	2" GATE VALVE	3	BRONZE, NPT
D-7	2" STEEL TEE	5	GALV. NPT X NPT
D-8	2" WYE STRAINER	1	BRONZE, NPT
D-9	PRESSURE RELIEF VALVE	1	BUSHING AS REQUIRED
D-10	2" X 3/4" GALV. STEEL BUSHING	1	GALV. NPT X NPT
D-11	3/4" ISOLATION VALVE	1	BRONZE, NPT
D-12	3/4" GALV. STEEL UNION	1	GALV. NPT X NPT
D-13	3/4" GALV. STEEL 90° BEND	2	GALV. NPT X NPT
D-14	3/4" GALV. STEEL TEE	2	GALV. NPT X NPT
D-15	3/4" AIR VENT	1	BRONZE, NPT
D-16	3/4" DRAIN VALVE	1	BRONZE, NPT
D-17	2" X 1" STEEL REDUCER	2	GALV. NPT
D-18	1" UNION ADAPTER	2	1" NPT X METER THD
D-19	1" RECLAIMED WATER METER	1	BRONZE HOUSING
D-20	PRESSURE SWITCH WITH S.S. ISOLATION VALVE	1	BUSHING AS REQUIRED
D-21	S.S. PRESSURE GAUGE	1	BUSHING AS REQUIRED
D-22	2" PVC ADAPTER	1	SCH. 80, FTP X SLIP
D-23	2" PVC 90° BEND	2	SCH. 80, SLIP X SLIP

NON-POTABLE WATER NOTES:

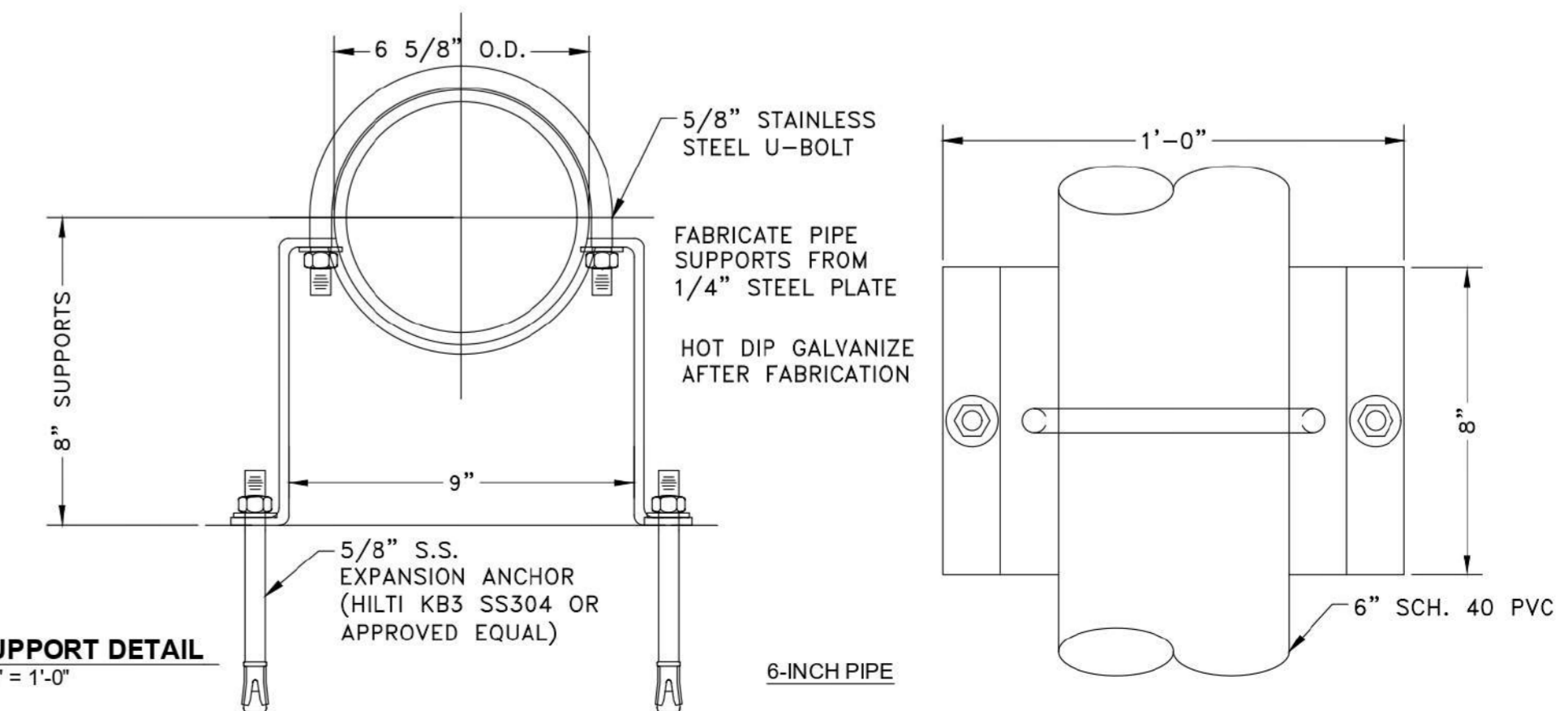
- ALL FITTINGS TO BE CLASS 300, GALVANIZED MALLEABLE IRON.
- ALL EXPOSED PIPING TO BE SCH. 40 GALVANIZED STEEL PIPE.
- ALL BURIED PIPING SHALL BE SCH. 80 P.V.C.
- INSTALL 3" PVC SLEEVE. INSTALL 2" NPW PIPING AND FILL ANNULAR SPACE WITH SIKAFLEX 1-A.
- INSTALL 1-1/2" PVC SLEEVE. INSTALL 3/4" NPW PIPING AND FILL ANNULAR SPACE WITH SIKAFLEX 1-A.



- 60° V-NOTCH WEIR NOTES**
- 60° V-NOTCH WEIR PLATE SHALL BE FABRICATED FROM MIN. 1/4" STAINLESS STEEL.
 - INSTALL 1/4" THICK NEOPRENE GASKET BETWEEN CONCRETE AND WEIR PLATE.
 - INSTALL AT EACH BOLT HOLE 1/2" Ø x 3" LENGTH 304 S.S. HILTI KWIK BOLT EXPANSION ANCHOR OR APPROVED EQUAL.



C PIPE SUPPORT DETAIL
SCALE: 3" = 1'-0"



DESIGNED BY: DV, SY	ISSUE FOR 90% DESIGN	DATE	REV.	DESCRIPTION	REVISIONS
CHECKED BY: DV	A	07/19/2022	KP	DV	CHKD
SCALE: AS SHOWN			BY		
DATE: 8/23/2022					
PR. NO: 701-023-300					
FILE:					

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1011 West County Line Rd.
New Braunfels, Texas 78130
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CHLORINE CONTACT - EQUIPMENT SECTIONS AND DETAILS (1 OF 2)

0.15 MGD WWTP

TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS

SHEET **38**
38 OF 83
REV: **A**

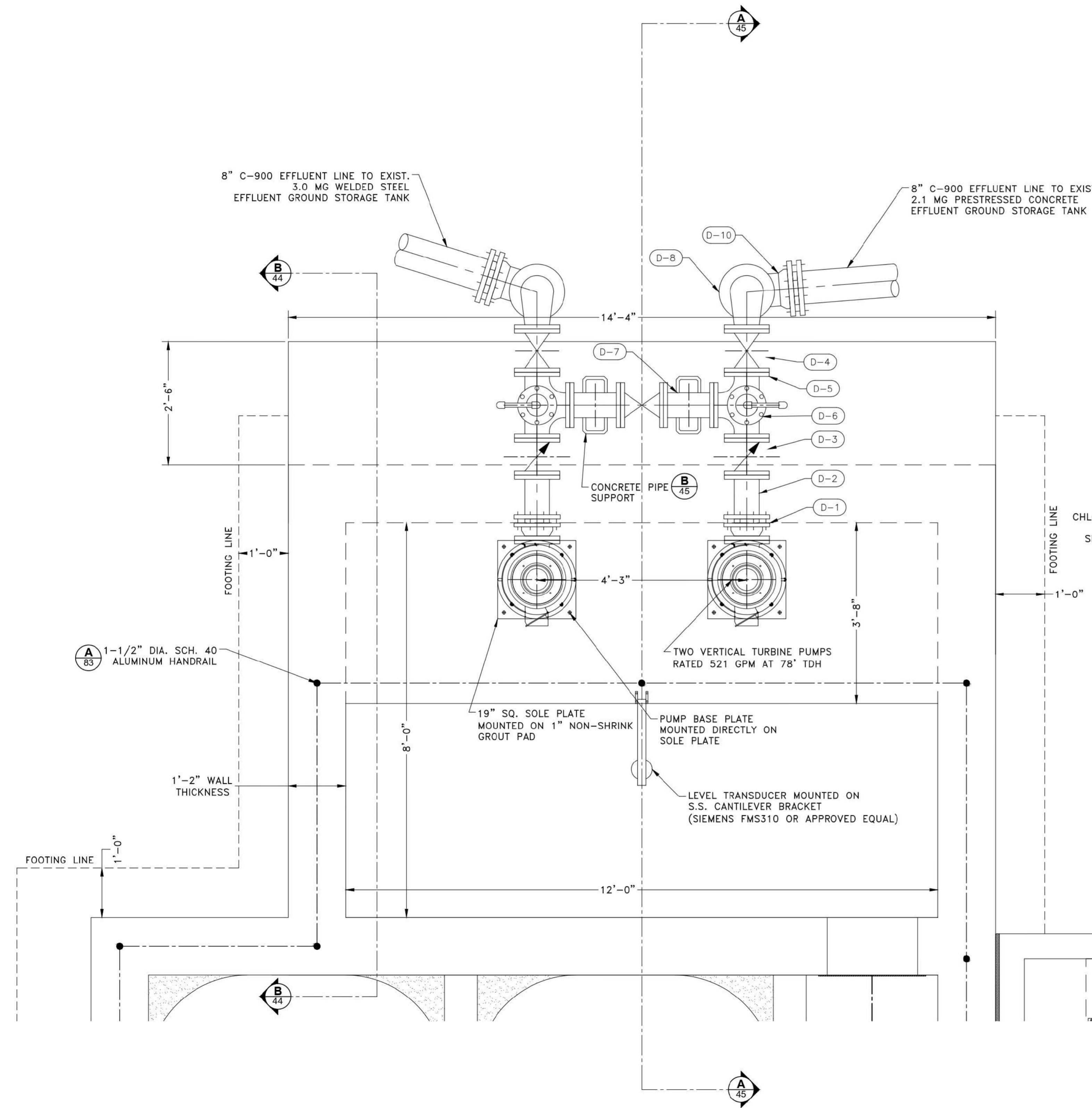
EFFLUENT TRANSFER PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
D-1	6" FLANGED ADAPTER	2	SMITH-BLAIR #912 WITH STUDS
D-2	6" SPOOL PIECE	2	FLG. X P.E.
D-3	6" SILENT GLOBE CHECK VALVE	2	FLANGED, CLA-VAL 581 OR APPROVED EQUAL, SEE NOTE 1
D-4	6" GATE VALVE	3	FLANGED, N.R.S.
D-5	6" TEE	2	FLANGED WITH 2" TAP AND 2" BALL VALVE WITH 2" X 1" BUSHING ON A BOSS
D-6	1" AIR/VACUUM VALVE ASSEMBLY	2	1" APCO #140C COMBINATION AIR/VACUUM VALVE OR APPROVED EQUAL
D-7	6" SPOOL PIECE	2	FLANGED
D-8	8" X 6" 90° REDUCER BEND	2	FLANGED
D-9	8" SPOOL PIECE	2	FLG. X P.E., SEE NOTE 2
D-10	8" 90° BEND	2	M.J.

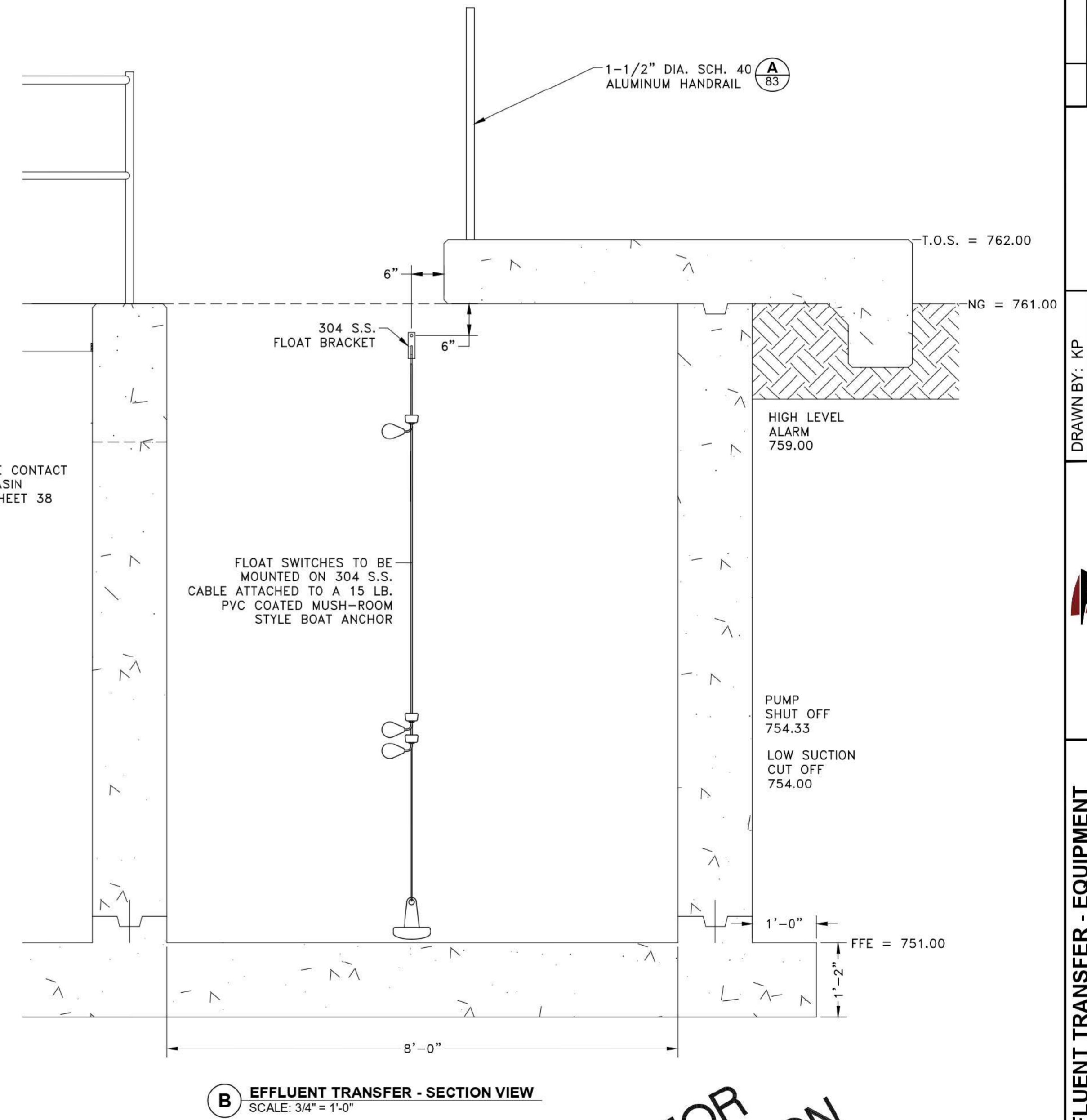
NOTE: ALL PIPE AND FITTINGS ARE DUCTILE IRON UNLESS NOTED OTHERWISE

EFFLUENT TRANSFER PUMP STATION NOTES:

- INSTALL 1/2" TAP ON DOWNSTREAM SIDE OF CHECK VALVE FOR VTP PACKING SUPPLY LINE. APPLY TO BOTH PUMPS.
- INSTALL ABOVE GRADE 1" TAP ON VERTICAL 8" SPOOL PIECE FOR PRESSURE TRANSMITTER. APPLY TO BOTH PUMPS.



A EFFLUENT TRANSFER - PLAN VIEW
SCALE: 3/4" = 1'-0"



B EFFLUENT TRANSFER - SECTION VIEW
SCALE: 3/4" = 1'-0"

NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	CHKD
A	07/18/2022	ISSUE FOR 90% DESIGN	KP	DV

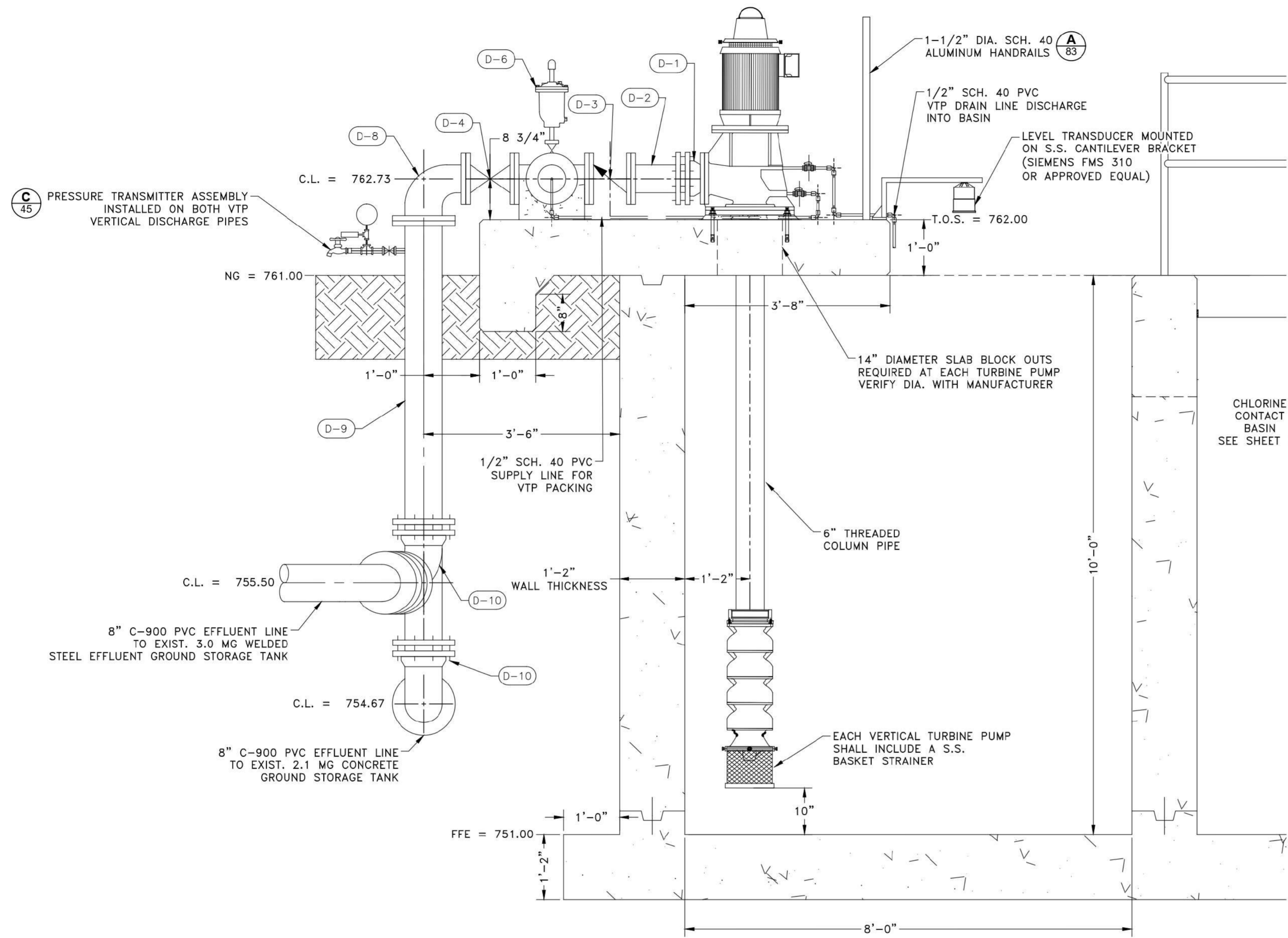
DRAWN BY: KP	DESIGNED BY: DV, SY
CHECKED BY: DV	SCALE: AS SHOWN
DATE: 8/26/2022	PR. NO: 701-023-300
FILE:	

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 Texas Survey Firm 10149424
 1005 E. Saint Elmo Rd. Building 7
 Austin, Texas 78745
 (P) 512-462-3308 (F) 512-462-3344
 www.trihydro.com

EFFLUENT TRANSFER - EQUIPMENT PLAN, SECTIONS, AND DETAILS (1 OF 2)

0.15 MGD WWTP

TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS



A EFFLUENT TRANSFER BASIN - ELEVATION VIEW
SCALE: 3/4" = 1'-0"

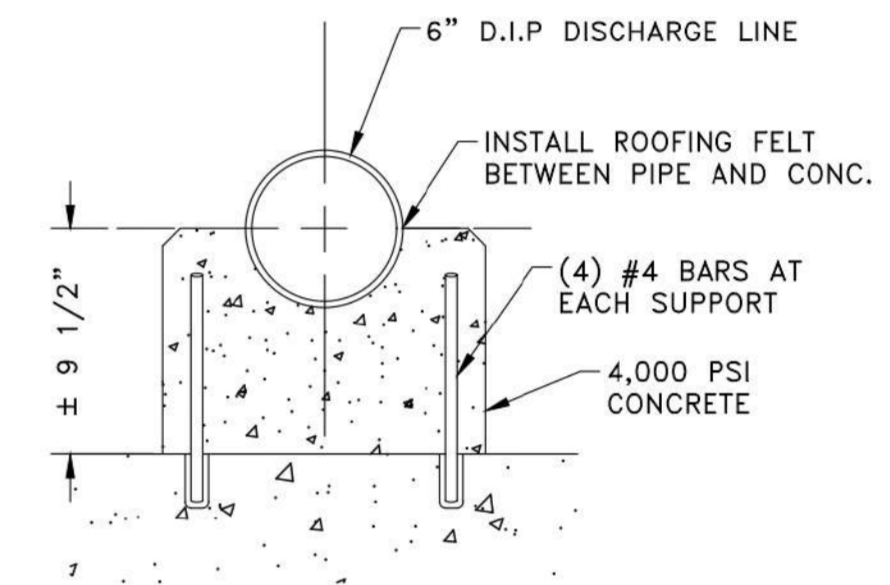
EFFLUENT TRANSFER PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
D-1	6" FLANGED ADAPTER	2	SMITH-BLAIR #912 WITH STUDS
D-2	6" SPOOL PIECE	2	FLG. X P.E.
D-3	6" SILENT GLOBE CHECK VALVE	2	FLANGED, CLA-VAL 581 OR APPROVED EQUAL, SEE NOTE 1
D-4	6" GATE VALVE	3	FLANGED, N.R.S.
D-5	6" TEE	2	FLANGED WITH 2" TAP AND 2" BALL VALVE WITH 2" X 1" BUSHING ON A BOSS
D-6	1" AIR/VACUUM VALVE ASSEMBLY	2	1" APCO #140C COMBINATION AIR/VACUUM VALVE OR APPROVED EQUAL
D-7	6" SPOOL PIECE	2	FLANGED
D-8	8" X 6" 90° REDUCER BEND	2	FLANGED
D-9	8" SPOOL PIECE	2	FLG. X P.E., SEE NOTE 2
D-10	8" 90° BEND	2	M.J.

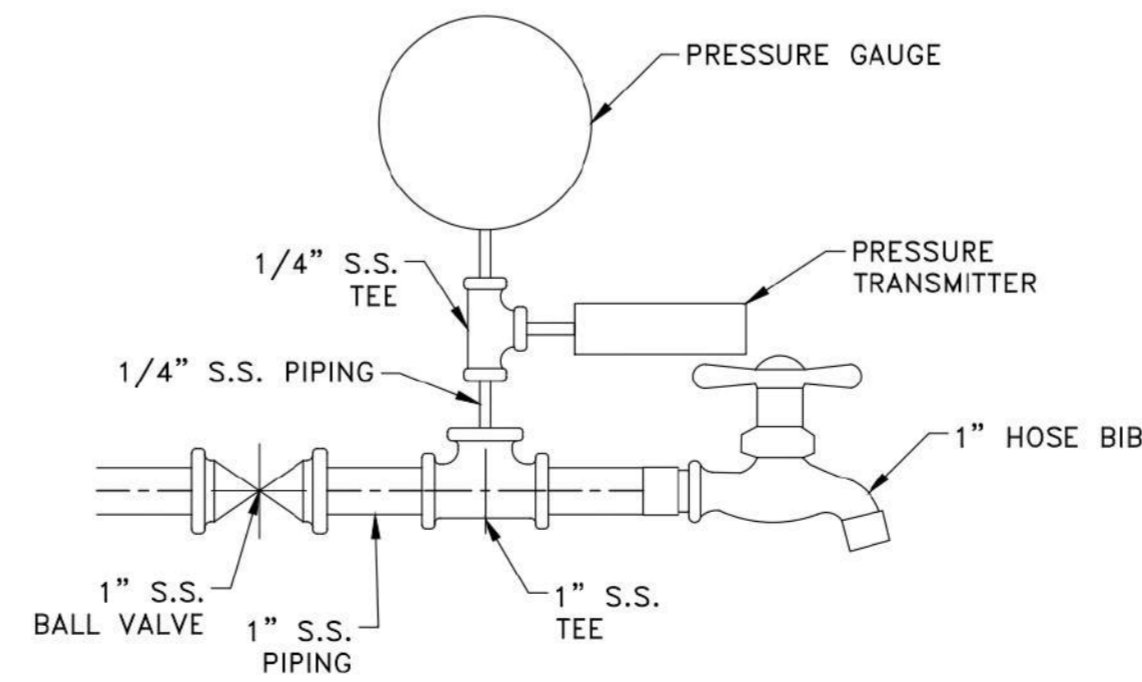
NOTE: ALL PIPE AND FITTINGS ARE DUCTILE IRON UNLESS NOTED OTHERWISE

EFFLUENT TRANSFER PUMP STATION NOTES:

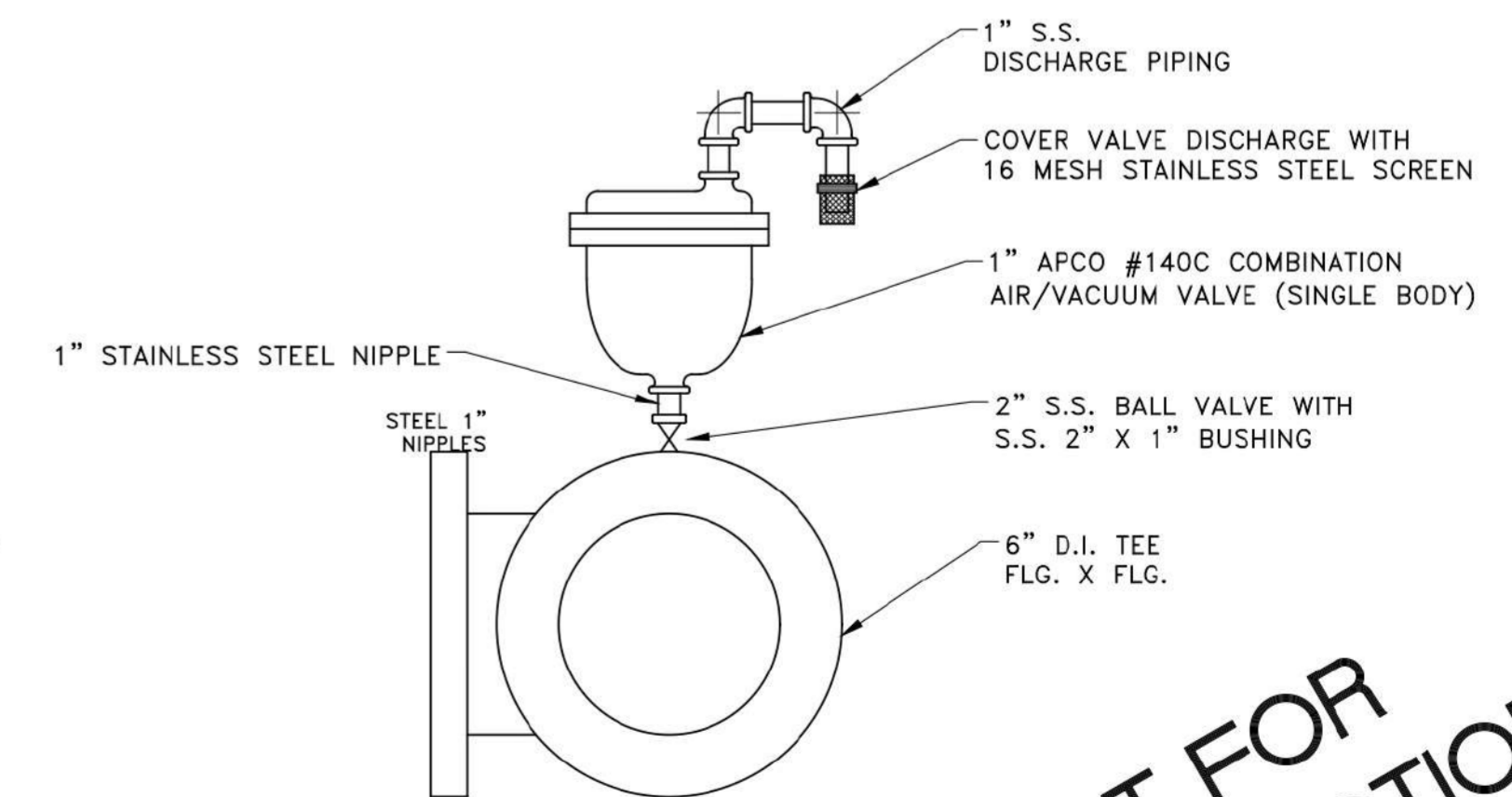
- INSTALL 1/2" TAP ON DOWNSTREAM SIDE OF CHECK VALVE FOR VTP PACKING SUPPLY LINE. APPLY TO BOTH PUMPS.
- INSTALL ABOVE GRADE 1" TAP ON VERTICAL 8" SPOOL PIECE FOR PRESSURE TRANSMITTER. APPLY TO PUMPS.



B CONCRETE PIPE SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"



C PRESSURE TRANSMITTER ASSEMBLY DETAILS
SCALE: N.T.S.



D AIR VACUUM VALVE ASSEMBLY DETAIL
SCALE: N.T.S.

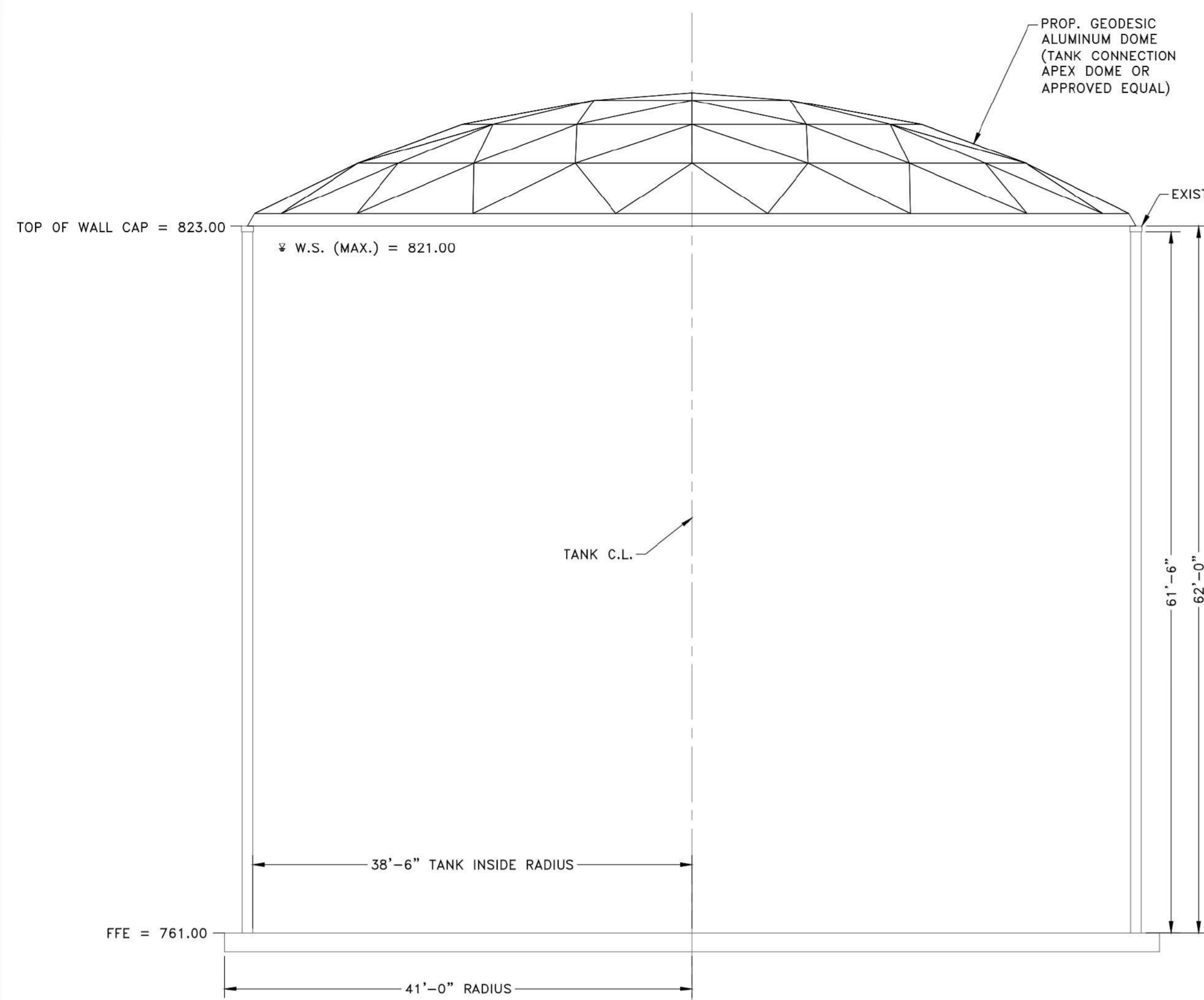
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	CHKD
A	07/18/2022	ISSUE FOR 90% DESIGN	KP	DV

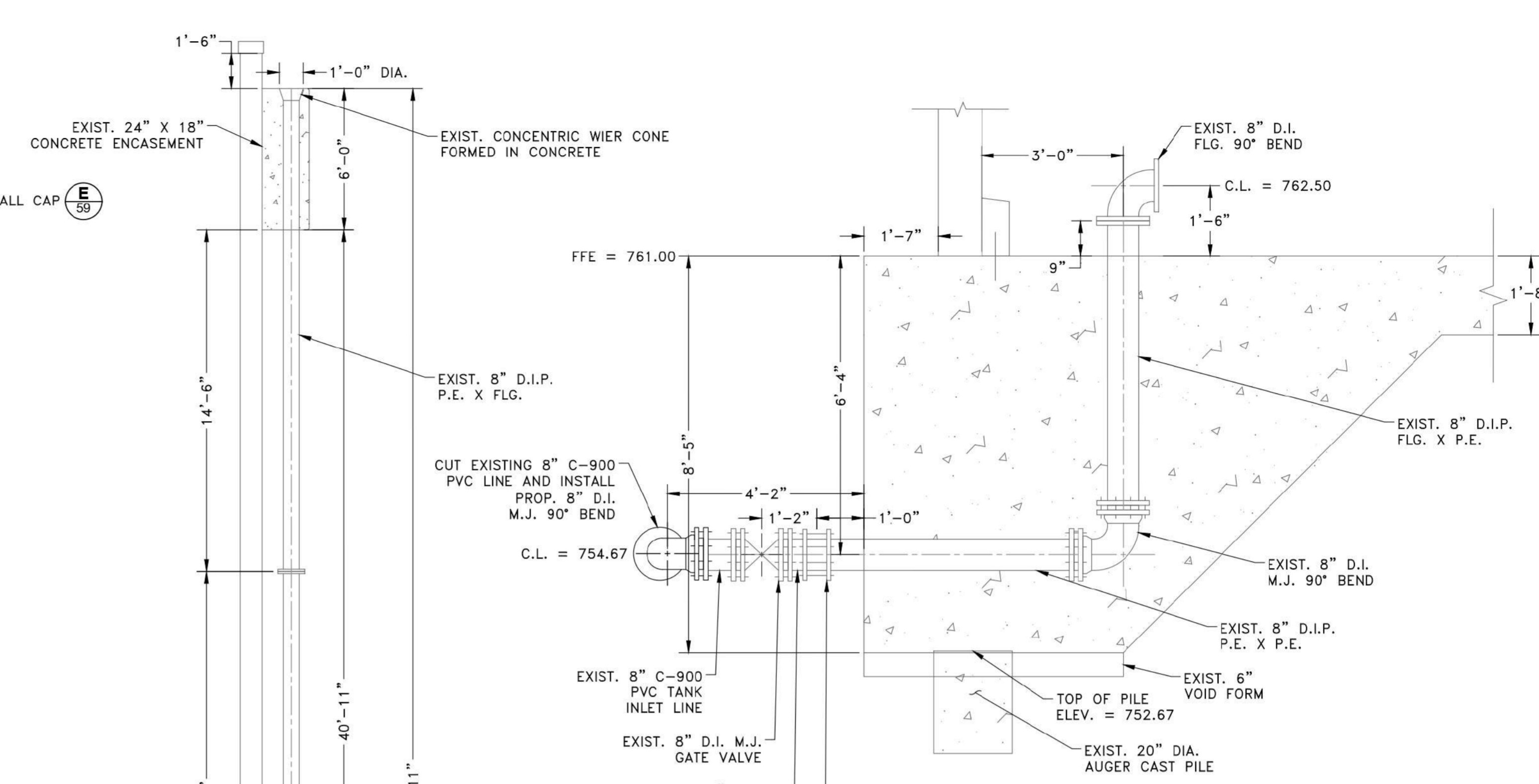
DRAWN BY: KP
DESIGNED BY: DV, SY
CHECKED BY: DV
SCALE: AS SHOWN
DATE: 8/25/2022
PR. NO: 701-023-300
FILE:

Trihydro CONSULTING
Texas Survey Firm
1005 E. Saint Elmo Rd. Building 7
Austin, Texas 78745
P: 512-462-3308 F: 512-462-3541
www.trihydro.com

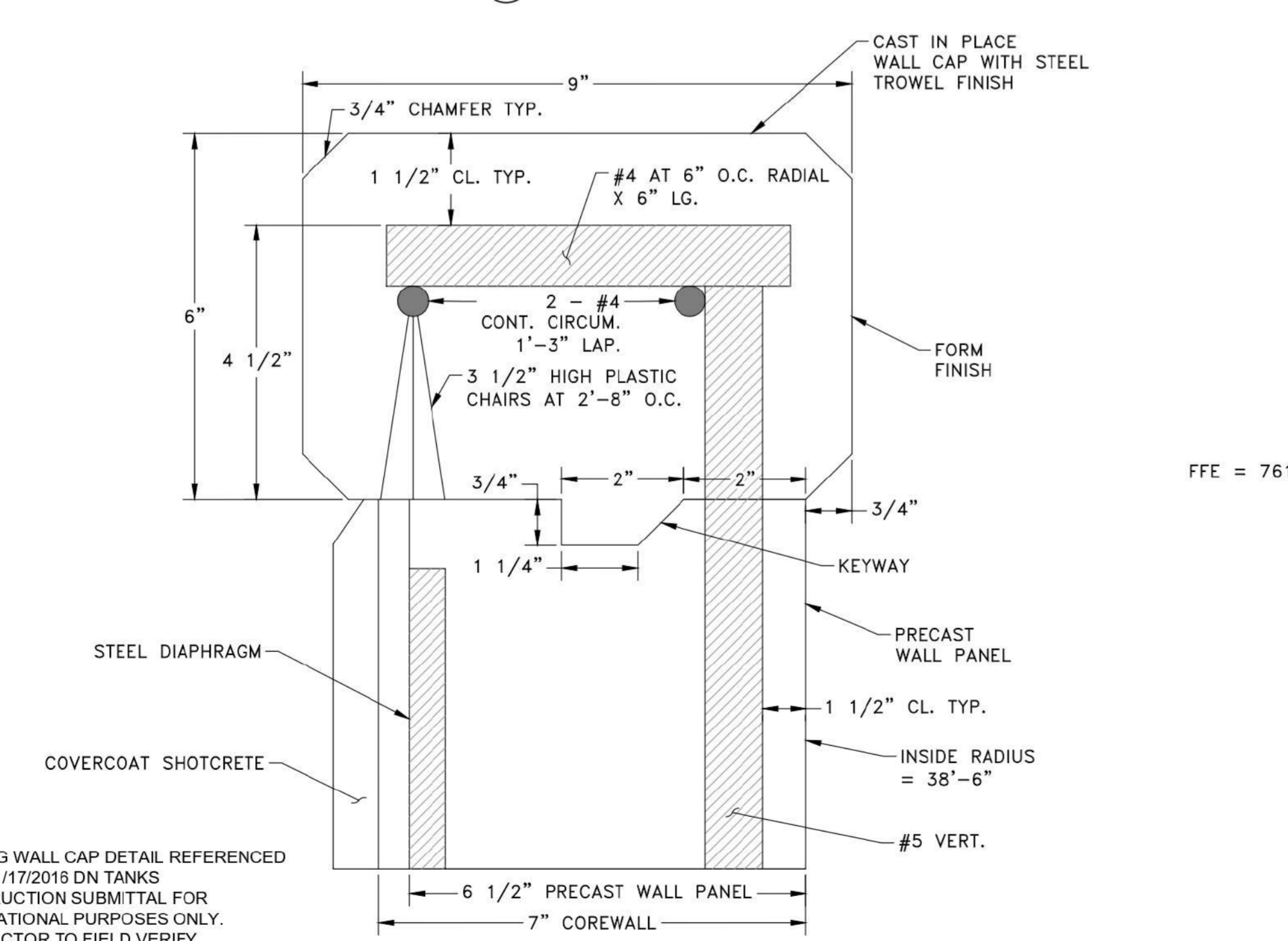
EFFLUENT TRANSFER - EQUIPMENT PLAN, SECTIONS, AND DETAILS (2 OF 2)
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS



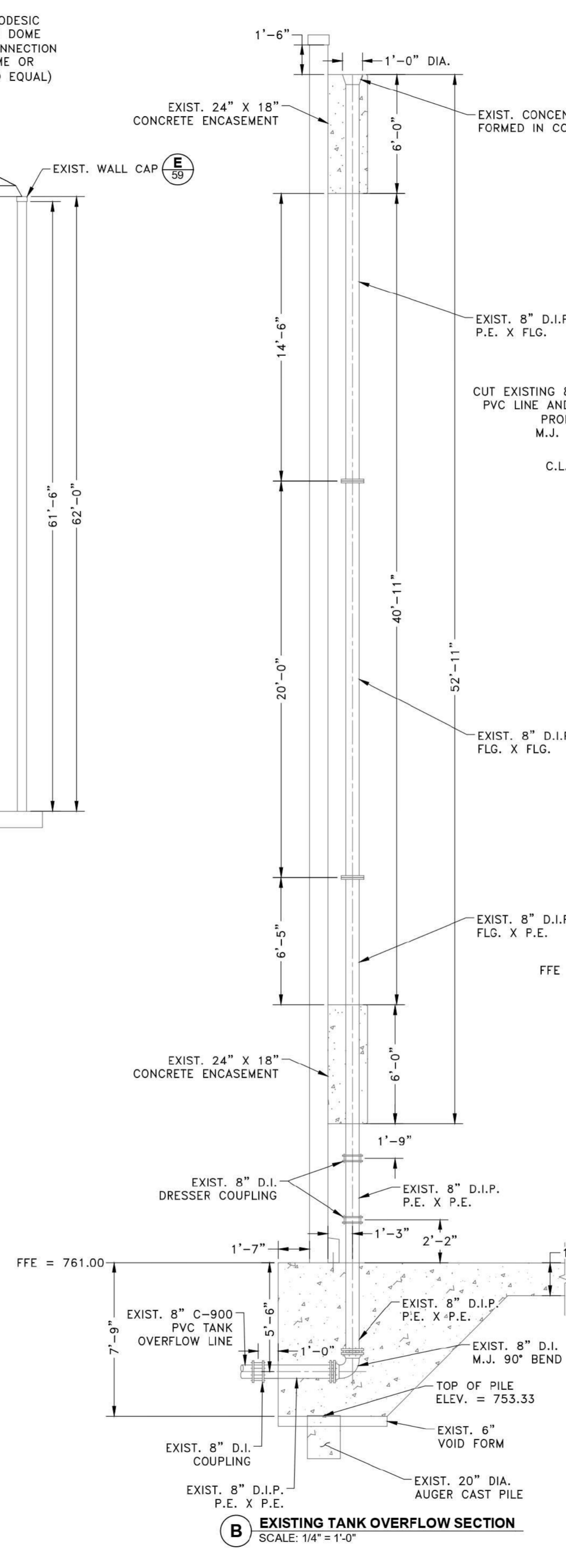
A SECTION PLAN
SCALE: 1/8" = 1'-0"



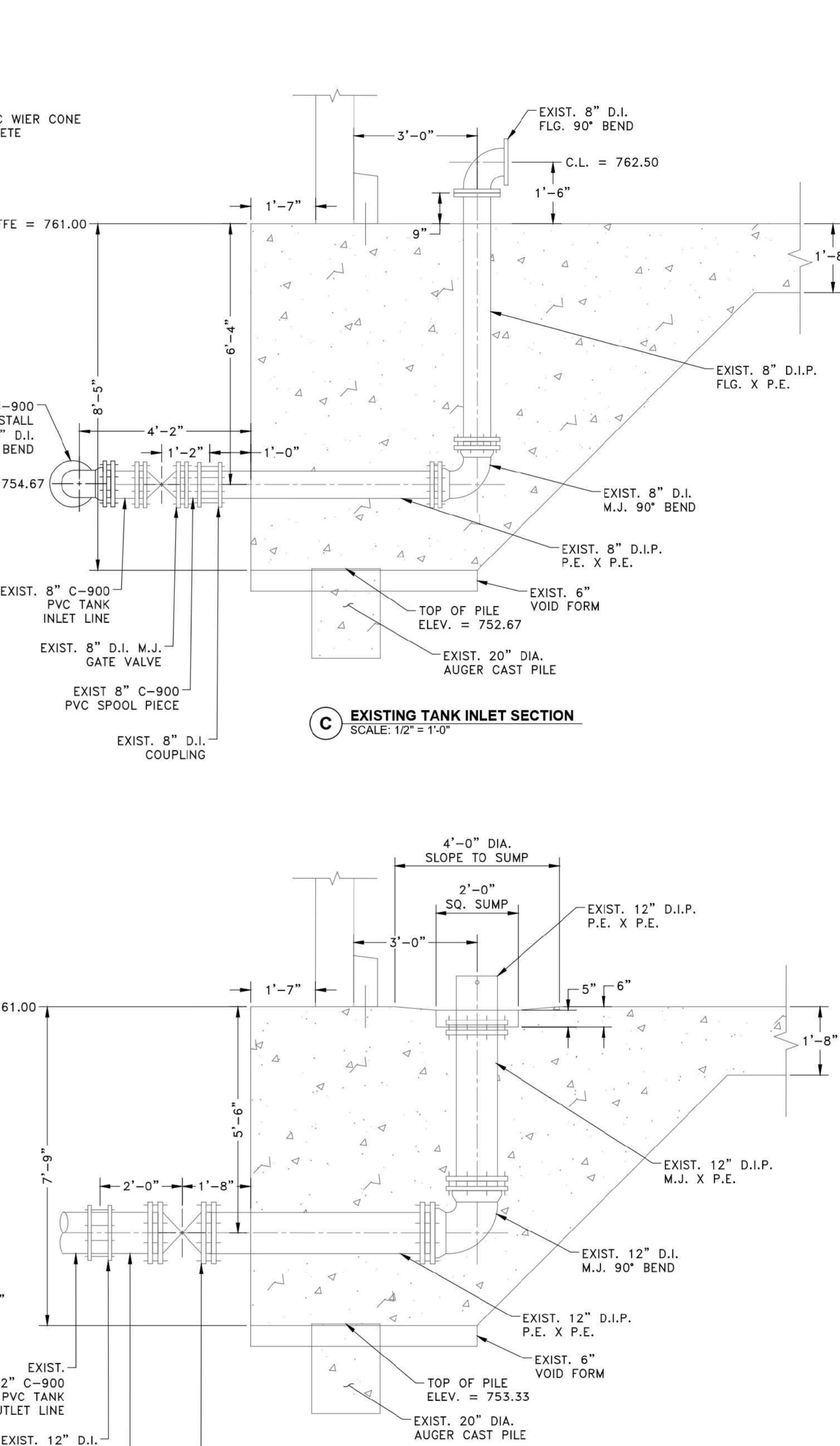
C EXISTING TANK INLET SECTION
SCALE: 1/2" = 1'-0"



E EXISTING WALL CAP DETAIL
SCALE: N.T.S.



B EXISTING TANK OVERFLOW SECTION
SCALE: 1/4" = 1'-0"

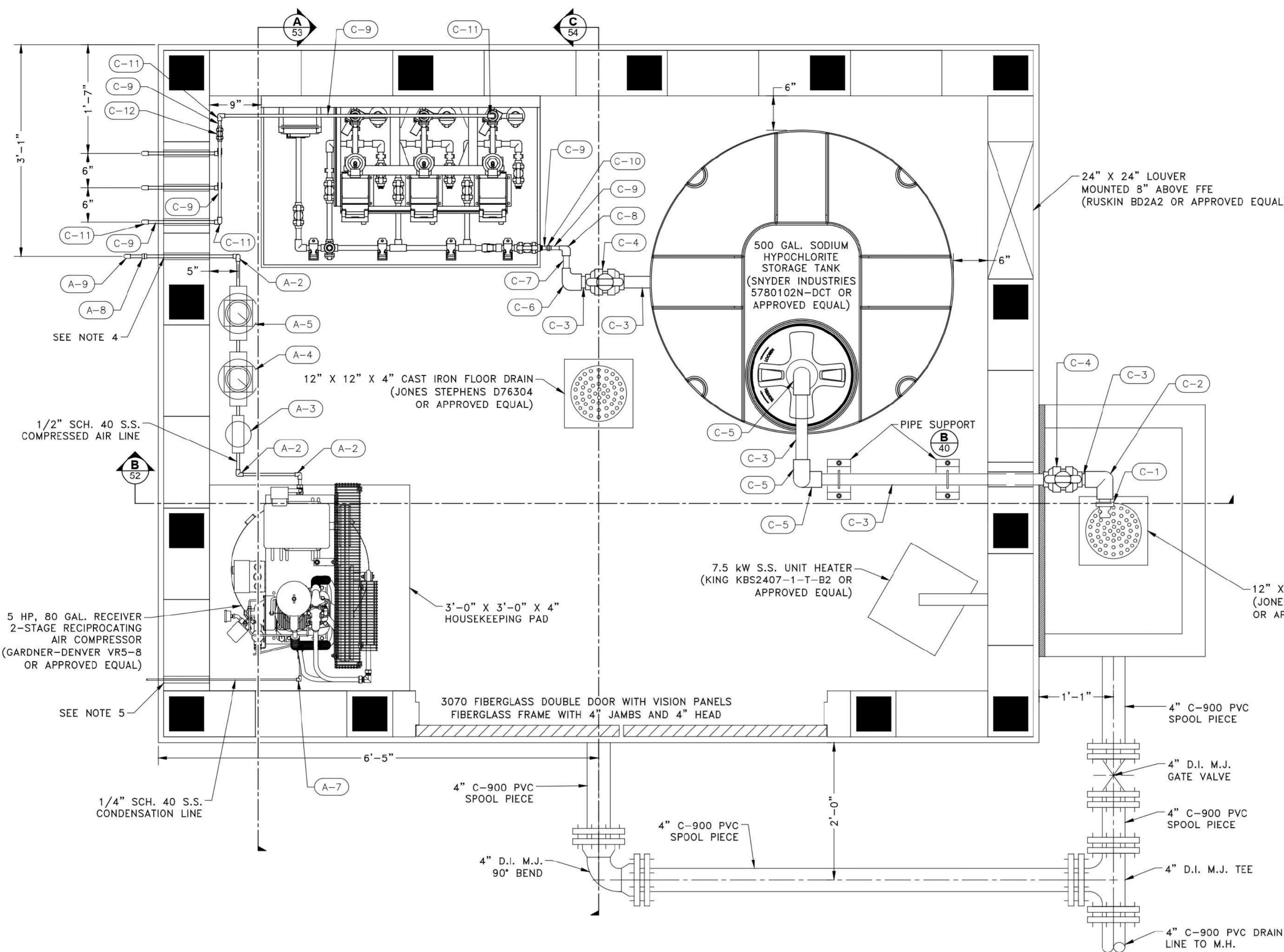


D EXISTING TANK OUTLET SECTION
SCALE: 1/2" = 1'-0"

NOTE:
EXISTING WALL CAP DETAIL REFERENCED FROM 11/17/2018 DN TANKS CONSTRUCTION SUBMITTAL FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY.

NOT FOR CONSTRUCTION

TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS	EXISTING 2.1 MG CONCRETE GST RENOVATIONS SECTIONS	0.15 MGD WWTP	REVISIONS
SHEET 59 59 OF 83	REV: A	DATE 07/18/2022	DESCRIPTION ISSUE FOR 90% DESIGN
DESIGNED BY: DV, SY	CHECKED BY: DV	SCALE: AS SHOWN	DATE
DRAWN BY: KP	DESIGNED BY: DV, SY	CHECKED BY: DV	SCALE: AS SHOWN
DATE: 8/26/2022	PR. NO: 701-023-300	FILE:	
1005 E. Saint Elmo Rd Building 7 Austin, Texas 78745 (P) 512-424-2308 (F) 512-424-3541 www.trihydro.com	10194444 1011 West County Line Rd New Braunfels, Texas 78130 (P) 512-424-2308 (F) 512-424-3541 www.trihydro.com	TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS	EXISTING 2.1 MG CONCRETE GST RENOVATIONS SECTIONS
BY	KP	DV	CHKD



CHEMICAL PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
C-1	2" PVC CAMLOCK	1	CAM X MNPT
C-2	2" PVC 90° BEND	1	FNTP X SLIP
C-3	2" PVC SPOOL PIECE	7	LENGTHS VARY
C-4	2" PVC BALL VALVE	2	SLIP X SLIP, TRUE UNION, VITON SEALS
C-5	2" PVC 90° BEND	3	SLIP X SLIP
C-6	2" X 1" PVC REDUCING 90° BEND	1	SLIP X SLIP
C-7	1" PVC SPOOL PIECE	1	LENGTHS VARY
C-8	1" X 1/2" PVC REDUCING 90° BEND	1	SLIP X SLIP
C-9	1/2" PVC SPOOL PIECE	17	LENGTHS VARY
C-10	1/2" PVC UNION	1	SLIP X SLIP
C-11	1/2" PVC 90° BEND	15	SLIP X SLIP
C-12	1/2" PVC BALL VALVE	3	SLIP X SLIP, TRUE UNION, VITON SEALS

NOTE: ALL PVC PIPE AND FITTINGS SHALL BE SCH. 80 UNLESS NOTED OTHERWISE.

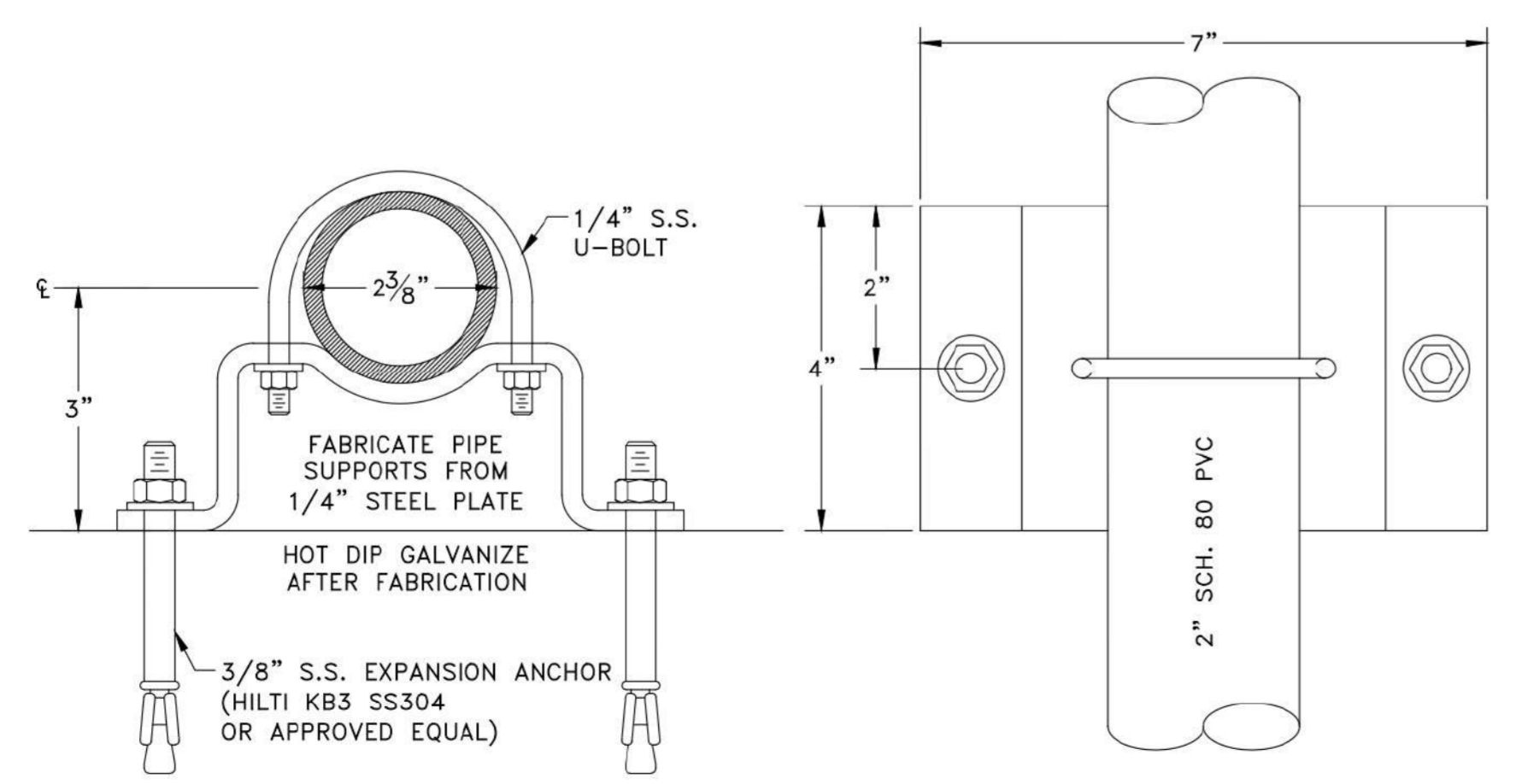
AIR PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
A-1	1/2" DISCHARGE BALL VALVE	1	BRASS, NPT
A-2	1/2" 90° BEND	4	S.S., NPT
A-3	REGULATOR	1	NPT, 85-90 PSI, PARKER 07R318AC OR APPROVED EQUAL
A-4	PARTICLE FILTER	1	NPT, 1 um, GARDNER-DENVER GIL35PC OR APPROVED EQUAL
A-5	COALESCING FILTER	1	NPT, 0.01 um, GARDNER-DENVER GIL35H OR APPROVED EQUAL
A-6	1/4" TANK DRAIN BALL VALVE	1	BRASS, NPT
A-7	1/4" 90° BEND	1	S.S., NPT
A-8	1/2" PVC ADAPTER	1	SCH. 80, NPT X SPIGOT
A-9	1/2" PVC 90° BEND	1	SLIP X SLIP

- AIR PIPING NOTES:**
- ALL EXPOSED PIPE AND FITTINGS SHALL BE SCH. 40 S.S. NPT UNLESS NOTED OTHERWISE.
 - ALL BURIED PIPE AND FITTINGS SHALL BE SCH. 80 PVC UNLESS NOTED OTHERWISE.
 - 1/2" PIPING INSIDE CMU BUILDING SHALL BE SUPPORTED BY S.S. UNI-STRUT OR APPROVED EQUAL.
 - INSTALL 1" PVC SLEEVE THROUGH CMU BLOCK FOR 1/2" COMPRESSED AIR LINE. FILL ANNULAR SPACE WITH SIKAFLEX-1A. CENTERLINE OF COMPRESSED AIR LINE IS 760.83.
 - INSTALL 1" PVC SLEEVE THROUGH CMU BLOCK FOR 1/4" CONDENSATION LINE. FILL ANNULAR SPACE WITH SIKAFLEX-1A.

NOTE: AIR COMPRESSOR AND ACCESSORIES SHALL BE SUPPLIED AS PART OF TERTIARY FILTRATION PACKAGE BY MANUFACTURER. REFER TO SPECIFICATION SECTION 11365.

A CHEMICAL DOSING BUILDING - PLAN VIEW
SCALE: 1" = 1'-0"



B 2 INCH SCH. 80 PVC PIPE SUPPORT DETAIL
SCALE: 6" = 1'-0"

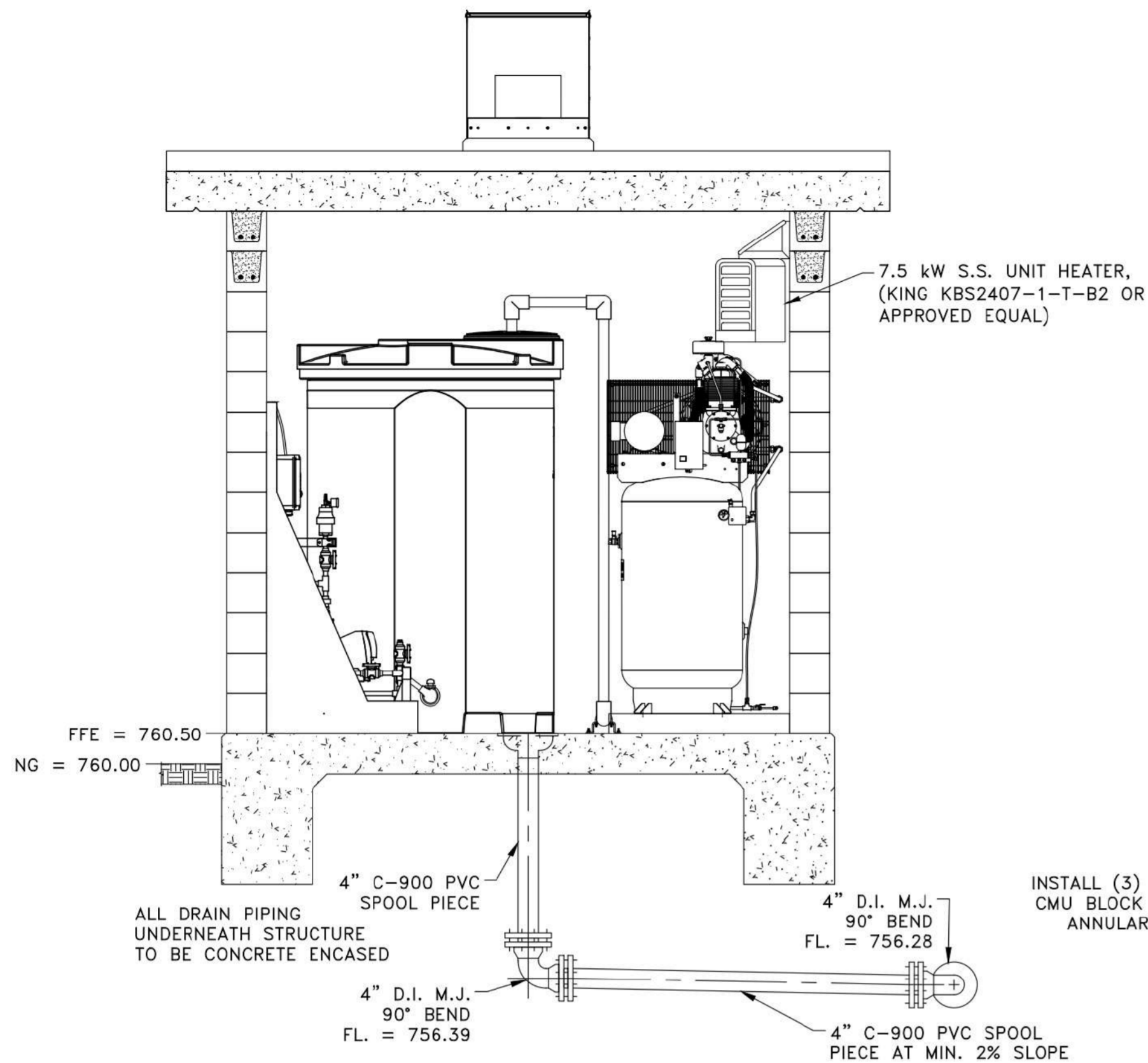
REV.	DATE	DESCRIPTION	BY	CHKD
A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV

DRAWN BY: KP
 DESIGNED BY: DV, SY
 CHECKED BY: DV
 SCALE: NONE
 DATE: 8/23/2022
 PR. NO: 701-023-300
 FILE:

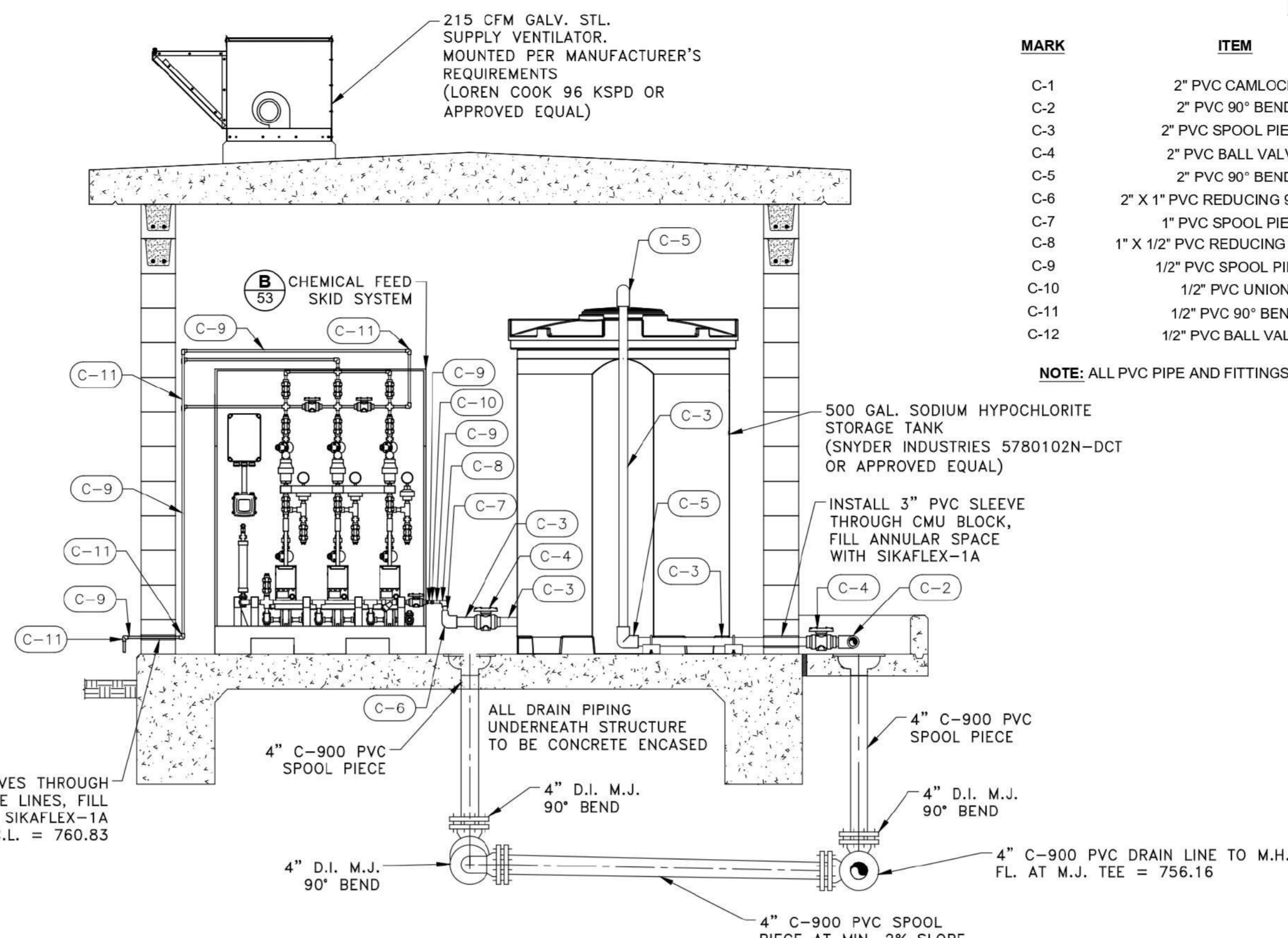
Trihydro
 CONSULTING ENGINEERS
 1005 E. Saint Elmo Rd. Building 7
 Austin, Texas 78745
 (P) 512.462.3108 (F) 512.462.3581 (E) info@trihydro.com www.trihydro.com

CHEMICAL FEED BUILDING - PLAN AND SECTIONS
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS

NOT FOR CONSTRUCTION



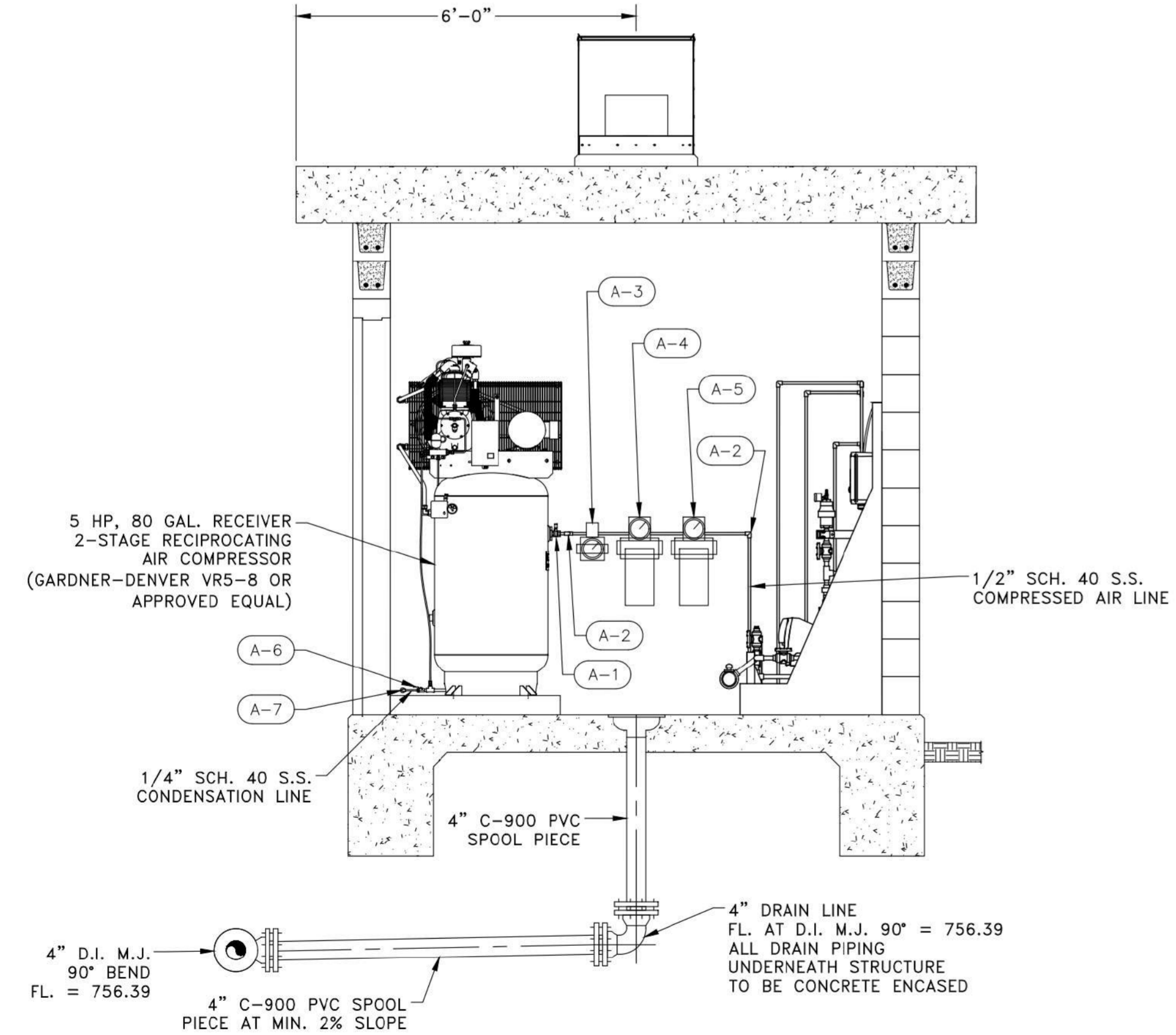
A CHEMICAL DOSING BUILDING - SECTION VIEW
SCALE: 1/2" = 1'-0"



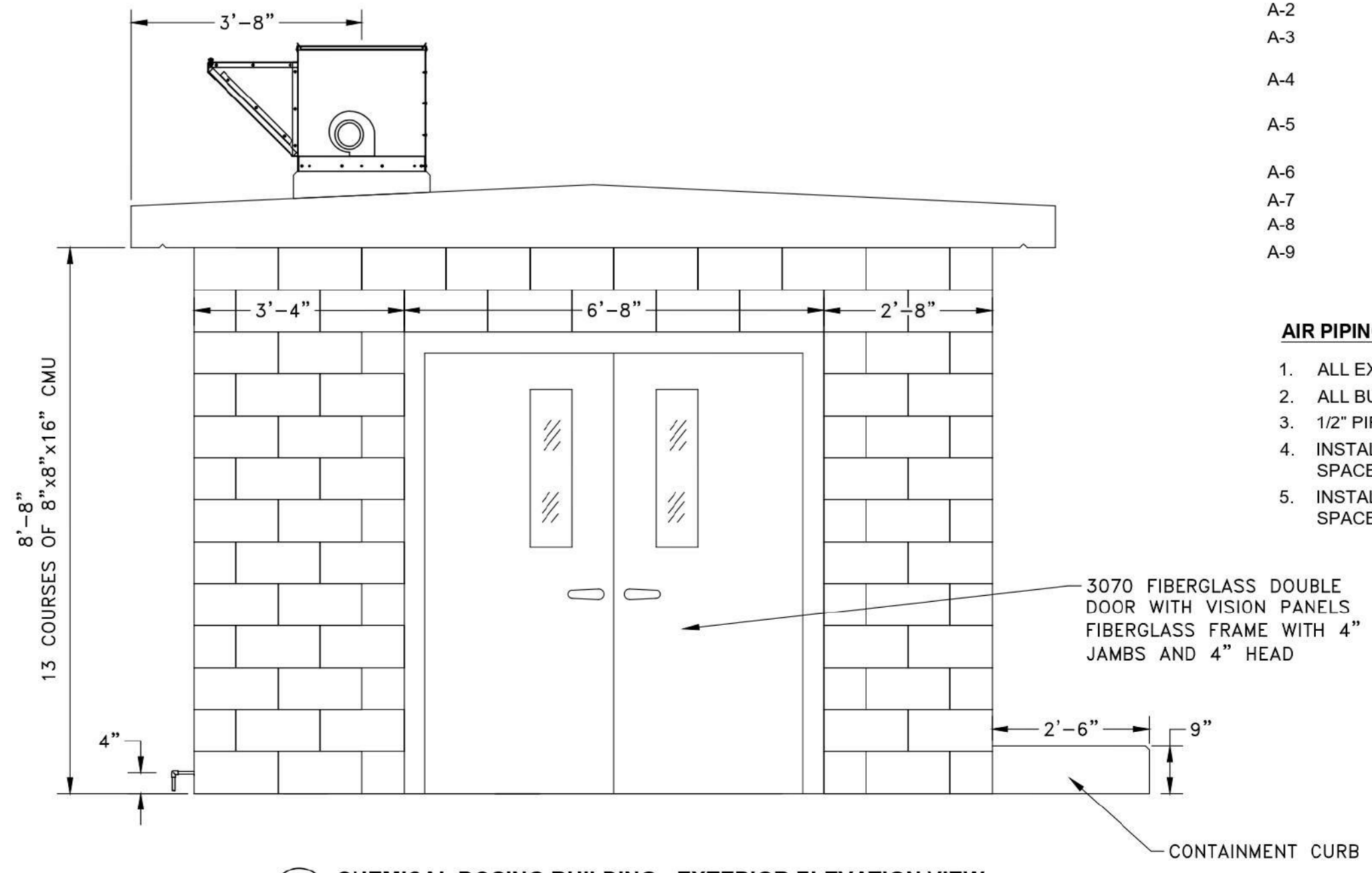
B CHEMICAL DOSING BUILDING - SECTION VIEW
SCALE: 1/2" = 1'-0"

CHEMICAL PIPING SCHEDULE			
MARK	ITEM	QUANTITY	DESCRIPTION
C-1	2" PVC CAMLOCK	1	CAM X MNPT
C-2	2" PVC 90° BEND	1	FNTP X SLIP
C-3	2" PVC SPOOL PIECE	7	LENGTHS VARY
C-4	2" PVC BALL VALVE	2	SLIP X SLIP, TRUE UNION, VITON SEALS
C-5	2" PVC 90° BEND	3	SLIP X SLIP
C-6	2" X 1" PVC REDUCING 90° BEND	1	SLIP X SLIP
C-7	1" PVC SPOOL PIECE	1	LENGTHS VARY
C-8	1" X 1/2" PVC REDUCING 90° BEND	1	SLIP X SLIP
C-9	1/2" PVC SPOOL PIECE	17	LENGTHS VARY
C-10	1/2" PVC UNION	1	SLIP X SLIP
C-11	1/2" PVC 90° BEND	15	SLIP X SLIP
C-12	1/2" PVC BALL VALVE	3	SLIP X SLIP, TRUE UNION, VITON SEALS

NOTE: ALL PVC PIPE AND FITTINGS SHALL BE SCH. 80 UNLESS NOTED OTHERWISE.



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



D CHEMICAL DOSING BUILDING - EXTERIOR ELEVATION VIEW
SCALE: 1/2" = 1'-0"

AIR PIPING SCHEDULE			
MARK	ITEM	QUANTITY	DESCRIPTION
A-1	1/2" DISCHARGE BALL VALVE	1	BRASS, NPT
A-2	1/2" 90° BEND	4	S.S., NPT
A-3	REGULATOR	1	NPT, 85-90 PSI, PARKER 07R318AC OR APPROVED EQUAL
A-4	PARTICLE FILTER	1	NPT, 1 um, GARDNER-DENVER GIL35PC OR APPROVED EQUAL
A-5	COALESCING FILTER	1	NPT, 0.01 um, GARDNER-DENVER GIL35H OR APPROVED EQUAL
A-6	1/4" TANK DRAIN BALL VALVE	1	BRASS, NPT
A-7	1/4" 90° BEND	1	S.S., NPT
A-8	1/2" PVC ADAPTER	1	SCH. 80, NPT X SPIGOT
A-9	1/2" PVC 90° BEND	1	SLIP X SLIP

- AIR PIPING NOTES:**
- ALL EXPOSED PIPE AND FITTINGS SHALL BE SCH. 40 S.S. NPT UNLESS NOTED OTHERWISE.
 - ALL BURIED PIPE AND FITTINGS SHALL BE SCH. 80 PVC UNLESS NOTED OTHERWISE.
 - 1/2" PIPING INSIDE CMU BUILDING SHALL BE SUPPORTED BY S.S. UNI-STRUT OR APPROVED EQUAL.
 - INSTALL 1" PVC SLEEVE THROUGH CMU BLOCK FOR 1/2" COMPRESSED AIR LINE. FILL ANNULAR SPACE WITH SIKAFLEX-1A. CENTERLINE OF COMPRESSED AIR LINE IS 760.83.
 - INSTALL 1" PVC SLEEVE THROUGH CMU BLOCK FOR 1/4" CONDENSATION LINE. FILL ANNULAR SPACE WITH SIKAFLEX-1A.

REV.	DATE	DESCRIPTION	BY	CHKD
A	07/19/2022	ISSUE FOR 90% DESIGN	KP	DV

DRAWN BY: KP
DESIGNED BY: DV, SY
CHECKED BY: DV
SCALE: NONE
DATE: 8/23/2022
PR. NO: 701-023-300
FILE: 701-023-300-01.dwg

Trihydro
CORPORATION
Texas Survey Firm
10104424
Austrel Building 7
1011 West County Line Rd.
New Braunfels, Texas 78130
(P) 512-462-3308 (F) 512-462-3541
www.trihydro.com

CHEMICAL FEED BUILDING - SECTION VIEWS
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS

NOT FOR CONSTRUCTION



A EXISTING BUILDING STRUCTURE DEMOLITION DETAIL - FRONT VIEW
SCALE: NONE



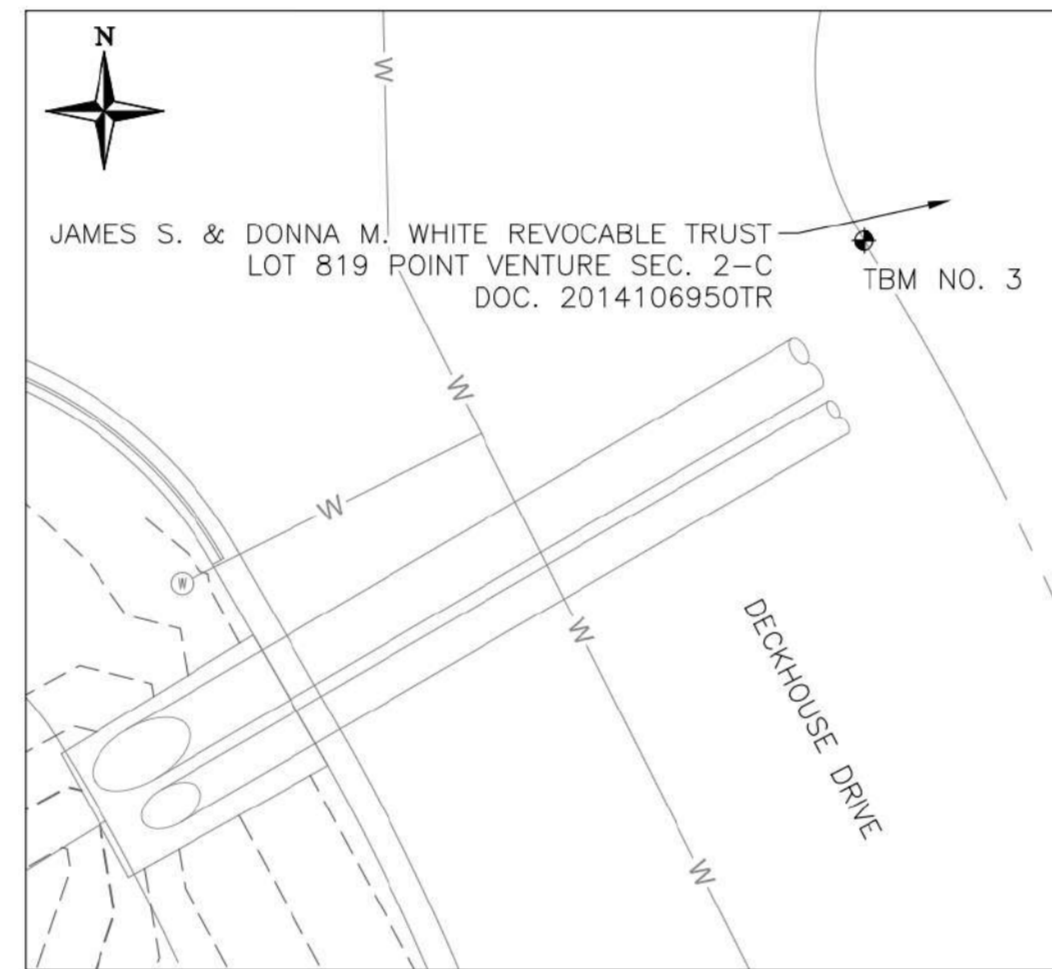
B EXISTING BUILDING STRUCTURE DEMOLITION DETAIL - SIDE VIEW
SCALE: NONE



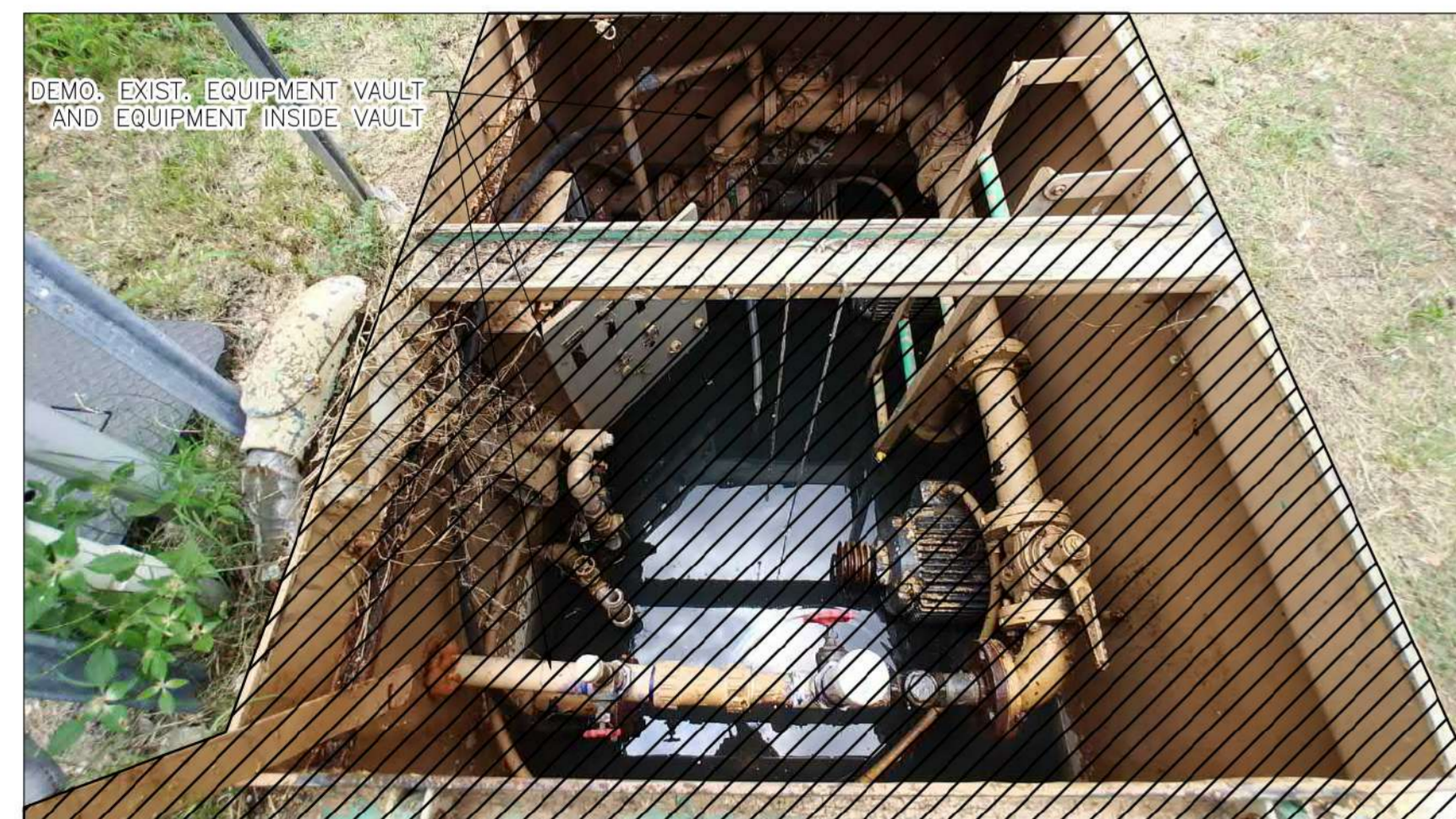
C EXISTING PUMPS AND PIPING DEMOLITION DETAIL
SCALE: NONE



D EXISTING EQUIPMENT VAULT DEMOLITION DETAIL
SCALE: NONE



E DECKHOUSE DRIVE - PLAN VIEW
SCALE: 1" = 10'



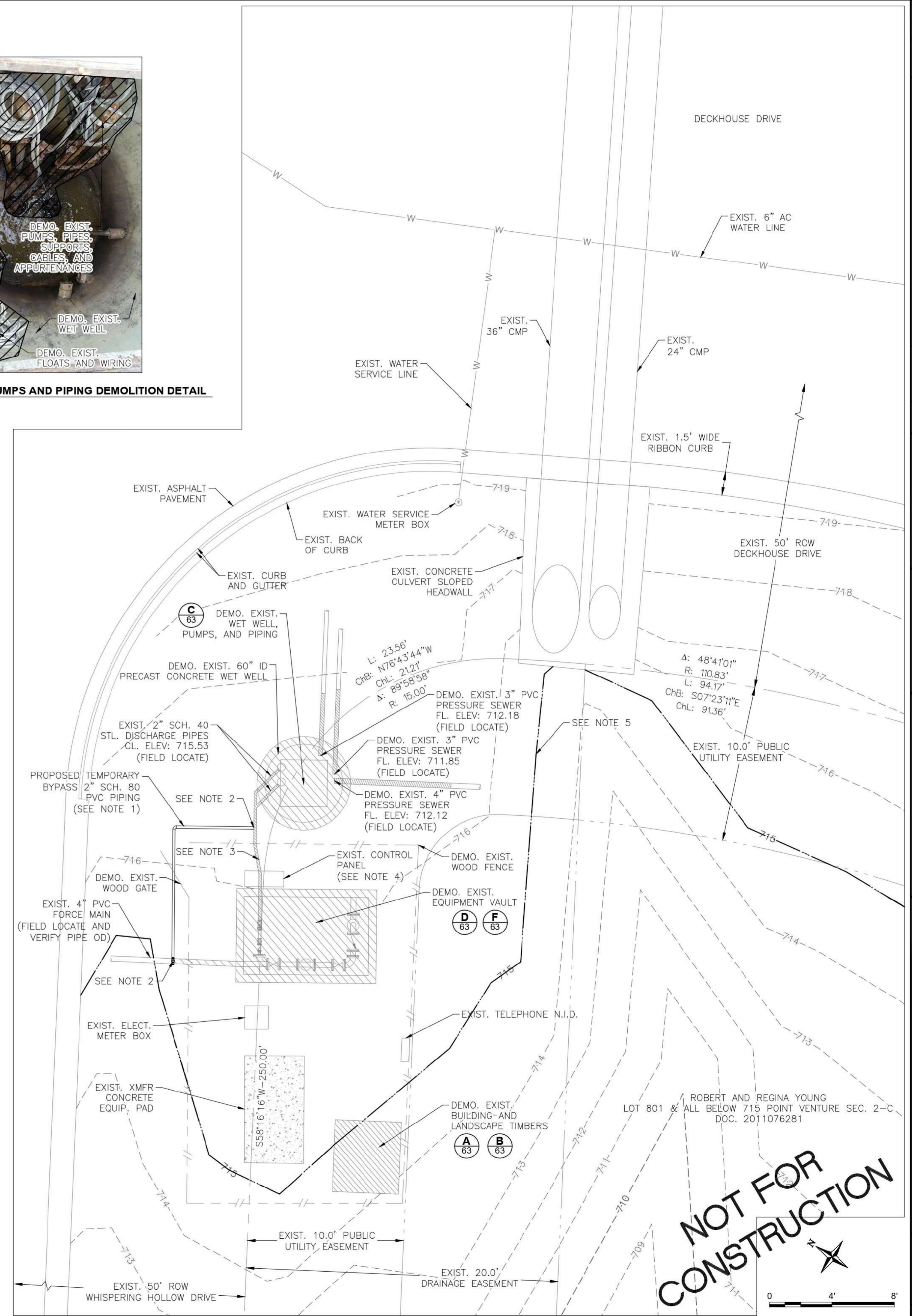
F EQUIPMENT VAULT INTERIOR DEMOLITION DETAIL
SCALE: NONE

WHISPERING HOLLOW LIFT STATION NOTES:

- 2-INCH TEMPORARY BYPASS LINE TO BE FIELD LOCATED AFTER SUBSURFACE INVESTIGATION. AFTER NEW LIFT STATION START UP, COMPLETELY REMOVE TEMPORARY BYPASS LINE.
- CUT EXISTING 2-INCH PVC DISCHARGE LINE AND INSTALL A 2-INCH 90° ELBOW. TAP EXISTING 4-INCH PVC FORCE MAIN WITH A 2-INCH SERVICE SADDLE.
- AFTER INSTALLING NEW LIFT STATION, COMPLETELY REMOVE EXISTING 2-INCH DISCHARGE LINE AND APPURTENANCES.
- EXISTING CONTROL PANEL TO BE RETAINED AND UTILIZED FOR THE NEW WHISPERING HOLLOW LIFT STATION.
- EXISTING LCRA FLOOD EASEMENT FROM THE 715.00 CONTOUR TO CENTER OF LAKE TRAVIS.
- THE FEMA 100 YEAR FLOODPLAIN WATER SURFACE ELEVATION IS 722.00.

SURVEY NOTES:

TBM NO. 3 CONSISTS OF IRON ROD FOUND AT NORTHWEST CORNER OF PROPERTY LOT EAST OF INTERSECTION OF WHISPERING HOLLOW DRIVE AND DECKHOUSE DRIVE. ELEVATION IS 716.91 (NAVD 88).



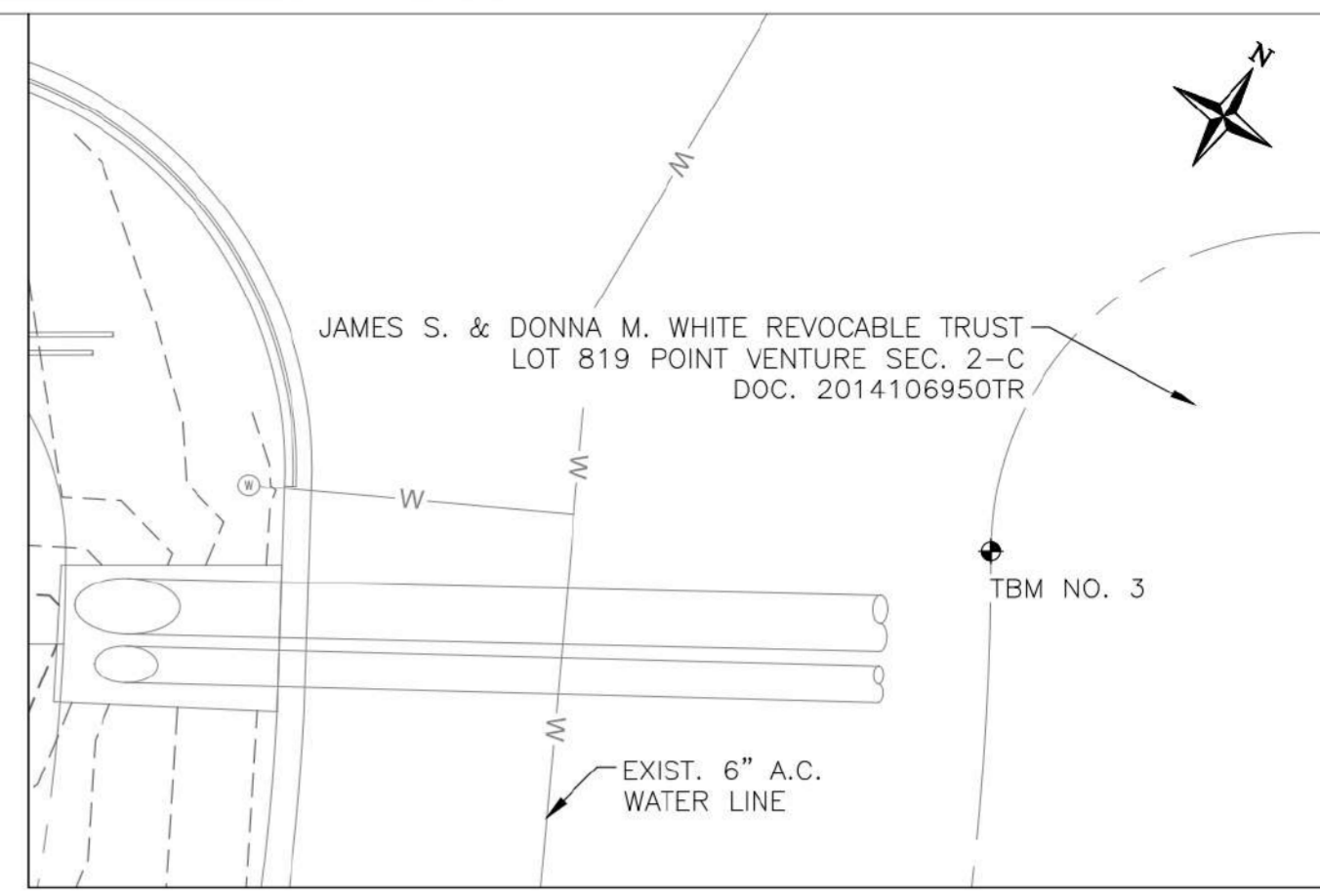
ISSUE FOR 70% DESIGN	DATE	REV.	DESCRIPTION	BY	CHKD
A	07/18/2022			KP	DV
DRAWN BY: AH			DESIGNED BY: DV, SY		
CHECKED BY: DV			SCALE: 1" = 4'		
DATE: 7/18/2022			PR. NO: 701-023-300		
FILE: \\sdc\share\water\demolition					
			WHISPERING HOLLOW LIFT STATION EXISTING SITE & DEMOLITION PLAN		
Texas Survey Firm 10149424 Austin, Texas 78745 P 512.442.2308 F 512.442.3588			1011 West County Line Rd. New Braunfels, Texas 78130 P 512.442.2308 F 512.442.3588		
0.15 MGD WWTP TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS			SHEET 63 63 OF 83 REV: A		

SURVEY NOTE:

TBM NO. 3 CONSISTS OF IRON ROD FOUND AT NORTHWEST CORNER OF PROPERTY LOT EAST OF INTERSECTION OF WHISPERING HOLLOW DRIVE AND DECKHOUSE DRIVE. ELEVATION IS 716.91 (NAVD 88).

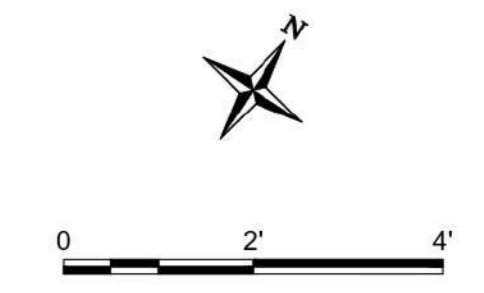
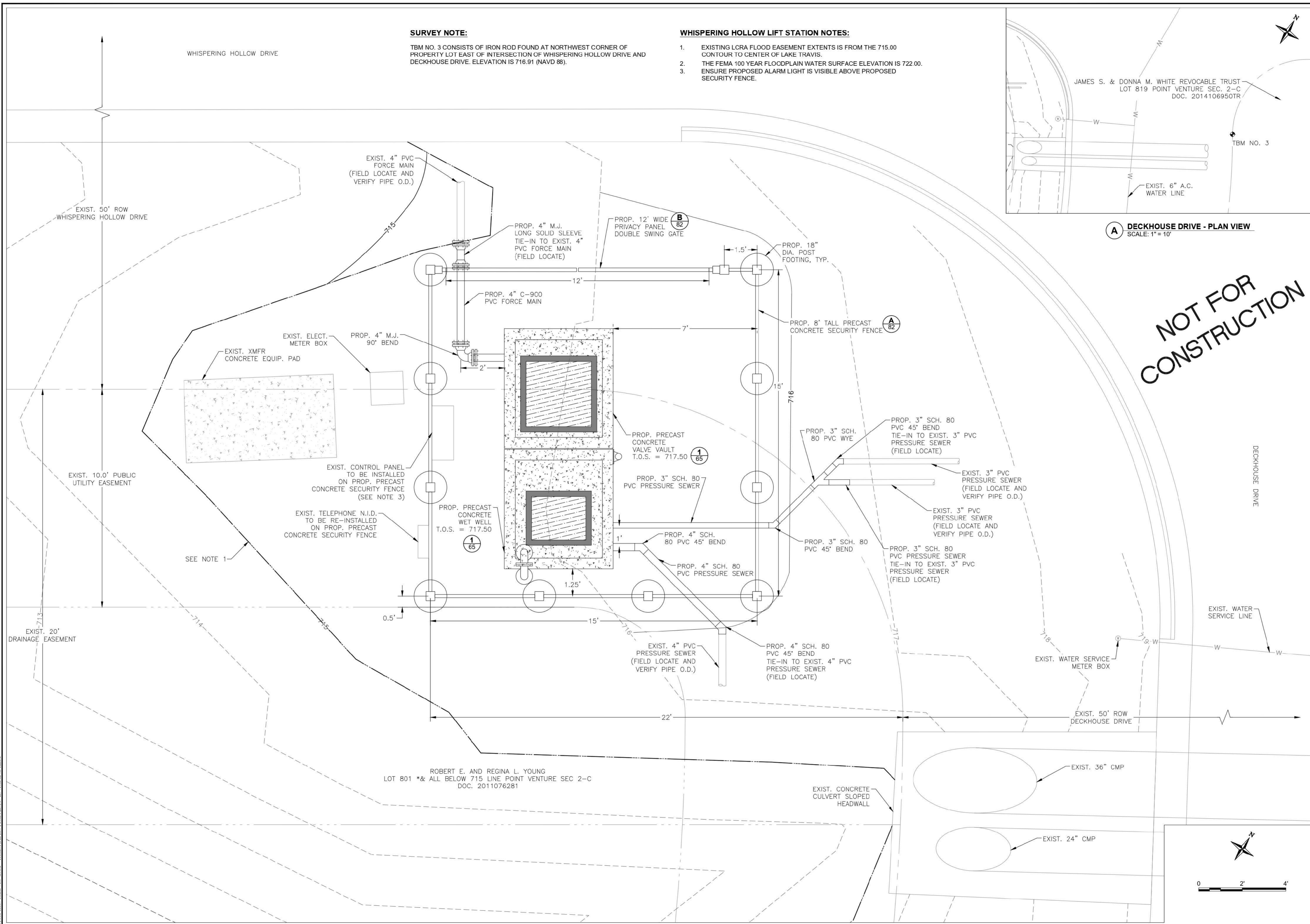
WHISPERING HOLLOW LIFT STATION NOTES:

- EXISTING LCRA FLOOD EASEMENT EXTENTS IS FROM THE 715.00 CONTOUR TO CENTER OF LAKE TRAVIS.
- THE FEMA 100 YEAR FLOODPLAIN WATER SURFACE ELEVATION IS 722.00.
- ENSURE PROPOSED ALARM LIGHT IS VISIBLE ABOVE PROPOSED SECURITY FENCE.



A DECKHOUSE DRIVE - PLAN VIEW
SCALE: 1" = 10'

NOT FOR CONSTRUCTION



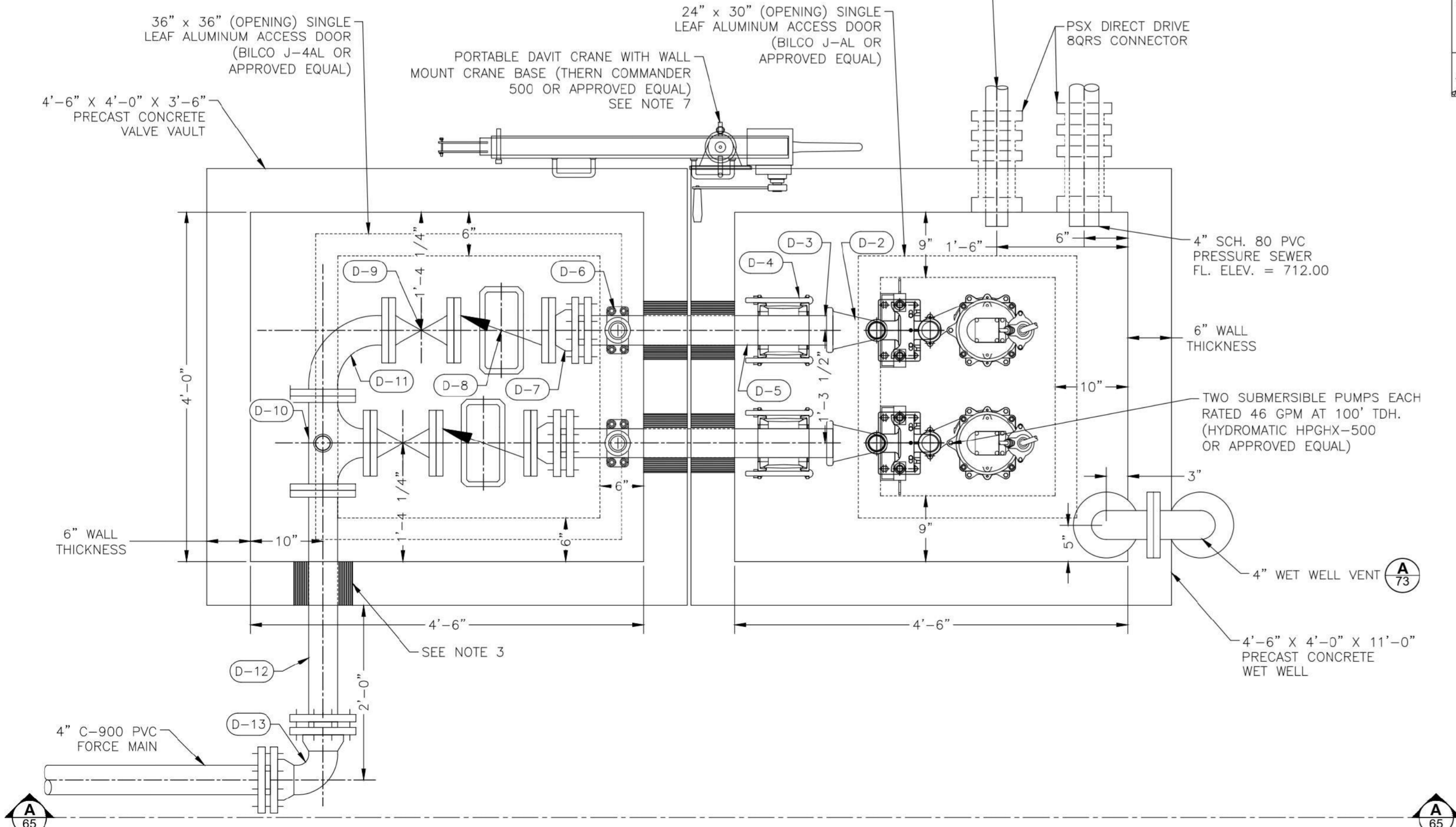
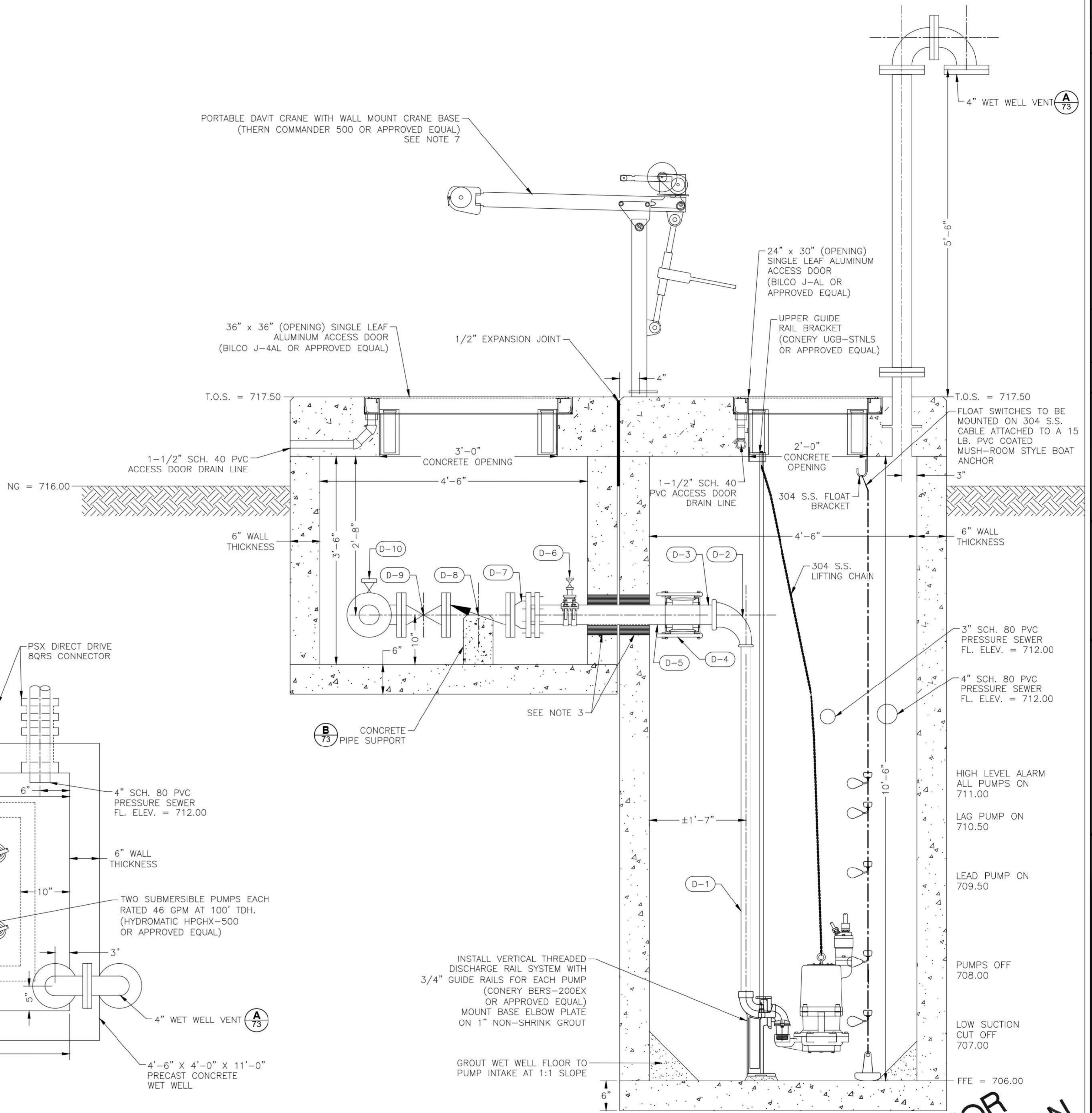
WHISPERING HOLLOW LIFT STATION PROPOSED SITE		SHEET 64	
0.15 MGD WWTP		64 OF 83	
TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS		REV: A	
DRAWN BY: KP	DESIGNED BY: DV, SY	ISSUE FOR 70% DESIGN	REVISIONS
CHECKED BY: DV	SCALE: AS SHOWN	DATE: 07/19/2022	REV. DATE
DATE: 7/19/2022	PR. NO: 701-023-300	FILE: \\s-lab\cadd\p\pointventure	DESCRIPTION
TRAVIS COUNTY ENGINEERING FIRM F-131	1005 E. Saint Elmo Rd. Building 7	1011 West County Line Rd.	BY
Adrian Brantley	Adrian, Texas 78745	New Braunfels, Texas 78130	KP
(P) 512-462-3208 (F) 512-775-7129	(F) 512-626-3368 (F) 512-626-3541	www.trishydro.com	DV
TRAVIS COUNTY ENGINEERING FIRM F-131	1005 E. Saint Elmo Rd. Building 7	1011 West County Line Rd.	CHKD
Adrian Brantley	Adrian, Texas 78745	New Braunfels, Texas 78130	
(P) 512-462-3208 (F) 512-775-7129	(F) 512-626-3368 (F) 512-626-3541	www.trishydro.com	

LIFT STATION PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
D-1	2" SPOOL PIECE	2	GALV. NPT X NPT
D-2	2" X 4" 90° REDUCER BEND	2	GALV. NPT X NPT
D-3	4" SPOOL PIECE	2	GALV. NPT X P.E.
D-4	4" TRANSITION COUPLING	2	D.I. CLASS 52 X SCH. 40 GALV. STL.; ROMAC 501 OR APPROVED EQUAL
D-5	4" SPOOL PIECE	2	D.I.P. P.E. X P.E.
D-6	2" SERVICE SADDLE ASSEMBLY	2	SEE NOTE 6
D-7	4" FLANGED ADAPTER	2	SMITH-BLAIR #912 WITH STUDS
D-8	4" CHECK VALVE	2	FLANGED, O.L. & W
D-9	4" GATE VALVE	2	FLANGED, N.R.S.
D-10	4" TEE	1	FLANGED WITH 2" TAP & 2" BALL VALVE ON A BOSS
D-11	4" LONG RADIUS 90° BEND	1	FLANGED
D-12	4" SPOOL PIECE	1	FLG. x P.E.
D-13	4" 90° BEND	1	M.J.

LIFT STATION NOTES:

- 2 INCH PIPING SHALL BE SCH. 40 GALVANIZED STEEL AND FITTINGS SHALL BE CLASS 300, GALVANIZED MALLEABLE IRON UNLESS NOTED OTHERWISE.
- 4 INCH PIPING AND FITTINGS SHALL BE DUCTILE IRON UNLESS NOTED OTHERWISE.
- INSTALL A 8" I.D. BLOCKOUT. AFTER INSTALLATION OF 4" P.E. X P.E. AND FLG. X P.E. SPOOL PIECE, FILL ANNULAR SPACE WITH PSI LINK SEAL MODULAR SEAL.
- ALL HARDWARE (NUTS, BOLTS, WASHERS, ANCHORS, ETC.) INSTALLED IN THE WET WELL SHALL BE 304 S.S.
- INTERIOR OF WET WELL SHALL BE COATED WITH RAVEN 405 OR APPROVED EQUAL.
- SERVICE SADDLE ASSEMBLY SHALL CONSIST OF: SMITH-BLAIR #317 WITH 2" NPT TAP, 2"x1" S.S. BUSHING, 1" S.S. NIPPLE, AND 1" S.S. BALL VALVE.
- FURNISH ONE PORTABLE DAVIT CRANE TO BE UTILIZED BETWEEN WHISPERING HOLLOW AND POA LIFT STATIONS. PORTABLE DAVIT CRANE SHALL BE INITIALLY INSTALLED AT POA LIFT STATION.
- EXISTING LCRA FLOOD EASEMENT EXTENTS IS FROM THE 715.00 CONTOUR TO CENTER OF LAKE TRAVIS.
- THE FEMA 100 YEAR FLOODPLAIN WATER SURFACE ELEVATION IS 722.00.

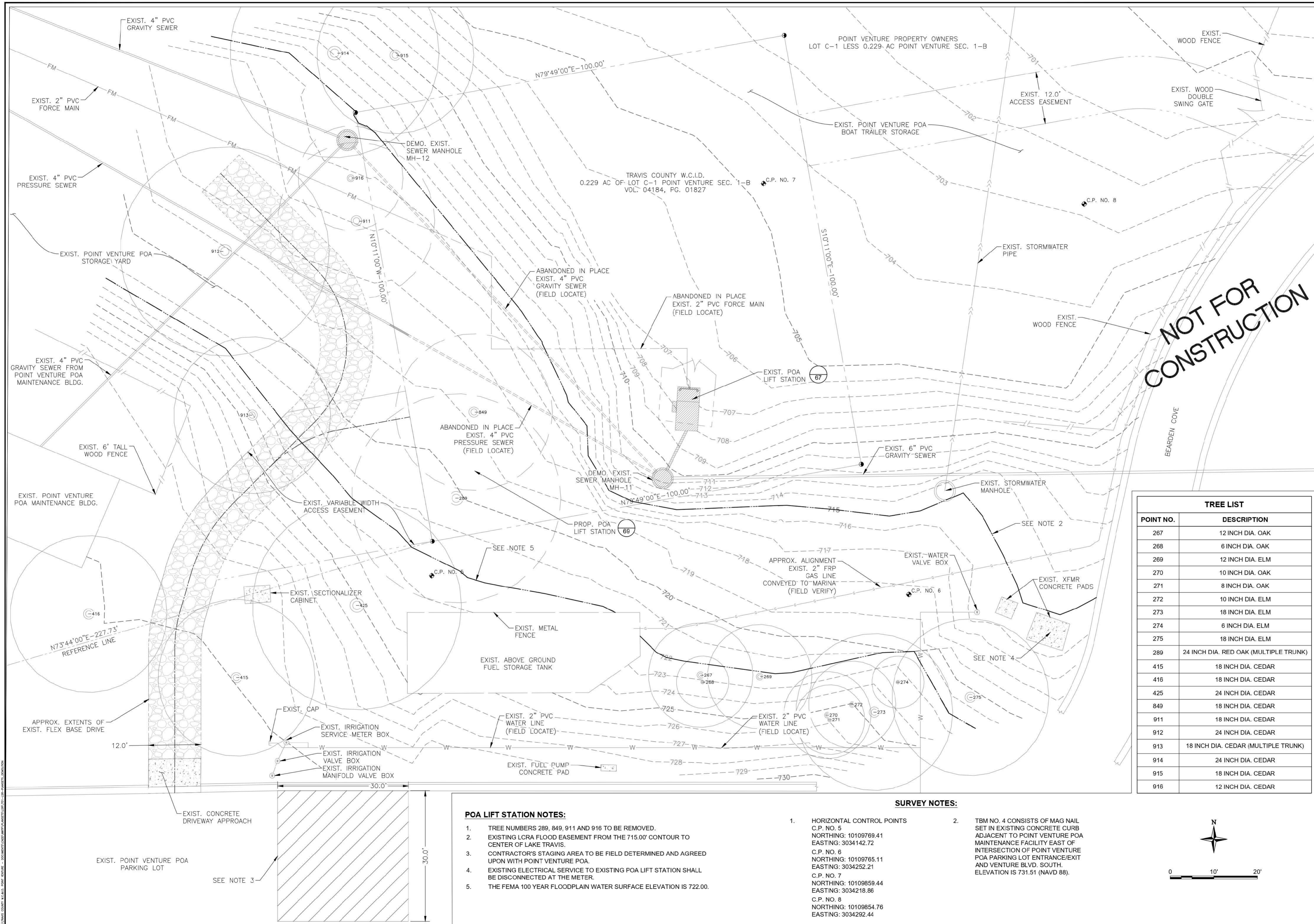


1 WHISPERING HOLLOW LIFT STATION - PLAN VIEW
SCALE: 1" = 1'-0"

A WHISPERING HOLLOW LIFT STATION - SECTION VIEW
SCALE: 1" = 1'-0"

NOT FOR CONSTRUCTION

<p>WHISPERING HOLLOW LIFT STATION PLAN AND SECTION VIEW</p> <p>0.15 MGD WWTP</p> <p>TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN BY: KP</td> <td style="width: 50%;">DESIGNED BY: DV, SY</td> </tr> <tr> <td>CHECKED BY: DV</td> <td>SCALE: 1" = 1'-0"</td> </tr> <tr> <td>DATE: 8/1/2022</td> <td>PR. NO: 701-023-300</td> </tr> <tr> <td colspan="2" style="text-align: center;">FILE: \\snp\p\dwg\701-023-300.dwg</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">REV.</th> <th style="width: 50%;">DATE</th> <th style="width: 50%;">DESCRIPTION</th> <th style="width: 50%;">BY</th> <th style="width: 50%;">CHKD</th> </tr> <tr> <td>A</td> <td>07/19/2022</td> <td>ISSUE FOR 70% DESIGN</td> <td>KP</td> <td>DV</td> </tr> </table>	DRAWN BY: KP	DESIGNED BY: DV, SY	CHECKED BY: DV	SCALE: 1" = 1'-0"	DATE: 8/1/2022	PR. NO: 701-023-300	FILE: \\snp\p\dwg\701-023-300.dwg		REV.	DATE	DESCRIPTION	BY	CHKD	A	07/19/2022	ISSUE FOR 70% DESIGN	KP	DV
DRAWN BY: KP	DESIGNED BY: DV, SY																		
CHECKED BY: DV	SCALE: 1" = 1'-0"																		
DATE: 8/1/2022	PR. NO: 701-023-300																		
FILE: \\snp\p\dwg\701-023-300.dwg																			
REV.	DATE	DESCRIPTION	BY	CHKD															
A	07/19/2022	ISSUE FOR 70% DESIGN	KP	DV															



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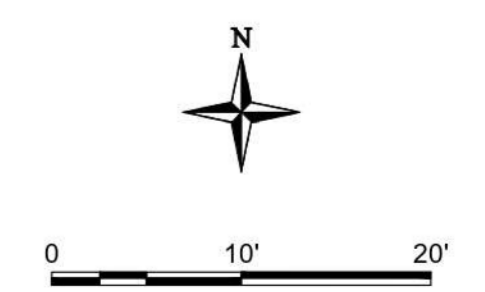
TREE LIST	
POINT NO.	DESCRIPTION
267	12 INCH DIA. OAK
268	6 INCH DIA. OAK
269	12 INCH DIA. ELM
270	10 INCH DIA. OAK
271	8 INCH DIA. OAK
272	10 INCH DIA. ELM
273	18 INCH DIA. ELM
274	6 INCH DIA. ELM
275	18 INCH DIA. ELM
289	24 INCH DIA. RED OAK (MULTIPLE TRUNK)
415	18 INCH DIA. CEDAR
416	18 INCH DIA. CEDAR
425	24 INCH DIA. CEDAR
849	18 INCH DIA. CEDAR
911	18 INCH DIA. CEDAR
912	24 INCH DIA. CEDAR
913	18 INCH DIA. CEDAR (MULTIPLE TRUNK)
914	24 INCH DIA. CEDAR
915	18 INCH DIA. CEDAR
916	12 INCH DIA. CEDAR

POA LIFT STATION NOTES:

- TREE NUMBERS 289, 849, 911 AND 916 TO BE REMOVED.
- EXISTING LCRA FLOOD EASEMENT FROM THE 715.00' CONTOUR TO CENTER OF LAKE TRAVIS.
- CONTRACTOR'S STAGING AREA TO BE FIELD DETERMINED AND AGREED UPON WITH POINT VENTURE POA.
- EXISTING ELECTRICAL SERVICE TO EXISTING POA LIFT STATION SHALL BE DISCONNECTED AT THE METER.
- THE FEMA 100 YEAR FLOODPLAIN WATER SURFACE ELEVATION IS 722.00.

SURVEY NOTES:

- | | |
|---|---|
| <ol style="list-style-type: none"> HORIZONTAL CONTROL POINTS
C.P. NO. 5
NORTHING: 10109769.41
EASTING: 3034142.72
C.P. NO. 6
NORTHING: 10109765.11
EASTING: 3034252.21
C.P. NO. 7
NORTHING: 10109859.44
EASTING: 3034218.86
C.P. NO. 8
NORTHING: 10109854.76
EASTING: 3034292.44 | <ol style="list-style-type: none"> TBM NO. 4 CONSISTS OF MAG NAIL SET IN EXISTING CONCRETE CURB ADJACENT TO POINT VENTURE POA MAINTENANCE FACILITY EAST OF INTERSECTION OF POINT VENTURE POA PARKING LOT ENTRANCE/EXIT AND VENTURE BLVD. SOUTH. ELEVATION IS 731.51 (NAVD 88). |
|---|---|



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							POA LIFT STATION OVERALL SITE 0.15 MGD WWTP TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS
SHEET 66 OF 83							REV: A



A EXISTING PUMPS AND PIPING DEMOLITION DETAIL
SCALE: NONE



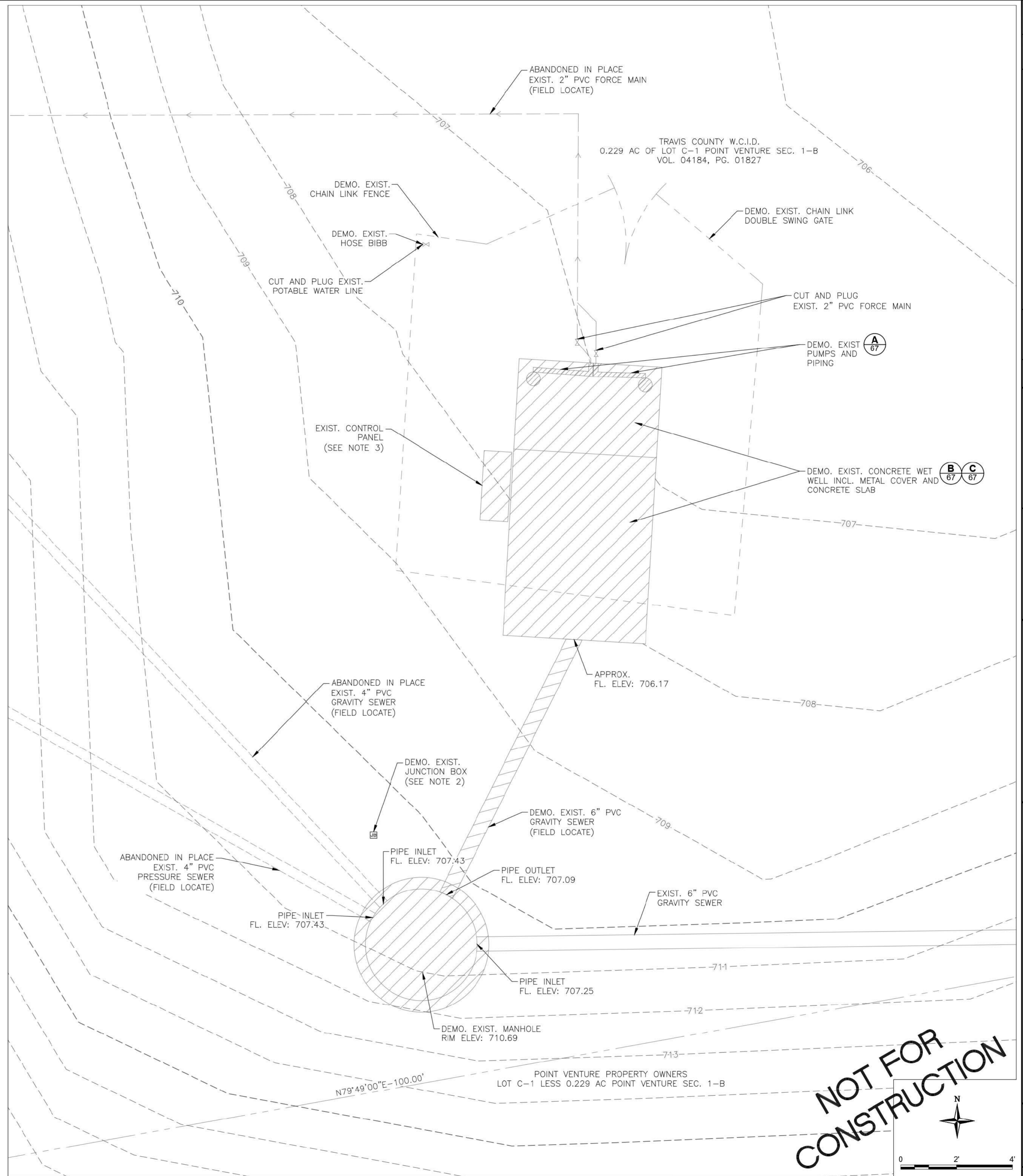
B EXISTING WET WELL AND EQUIPMENT DEMOLITION DETAIL
SCALE: NONE



C EXISTING WET WELL DEMOLITION DETAIL
SCALE: NONE

POA LIFT STATION NOTES:

- EXISTING ELECTRICAL SERVICE TO EXISTING POA LIFT STATION SHALL BE DISCONNECTED BACK AT THE METER.
- VERIFY IF JUNCTION BOX IS ACTIVE. IF ACTIVE, DETERMINE POWER SOURCE AND DISCONNECT PRIOR TO DEMOLITION. COORDINATE WITH OWNER DURING INVESTIGATION AND DEMOLITION.
- EXISTING CONTROL PANEL TO BE RELOCATED TO THE NEW POA LIFT STATION.



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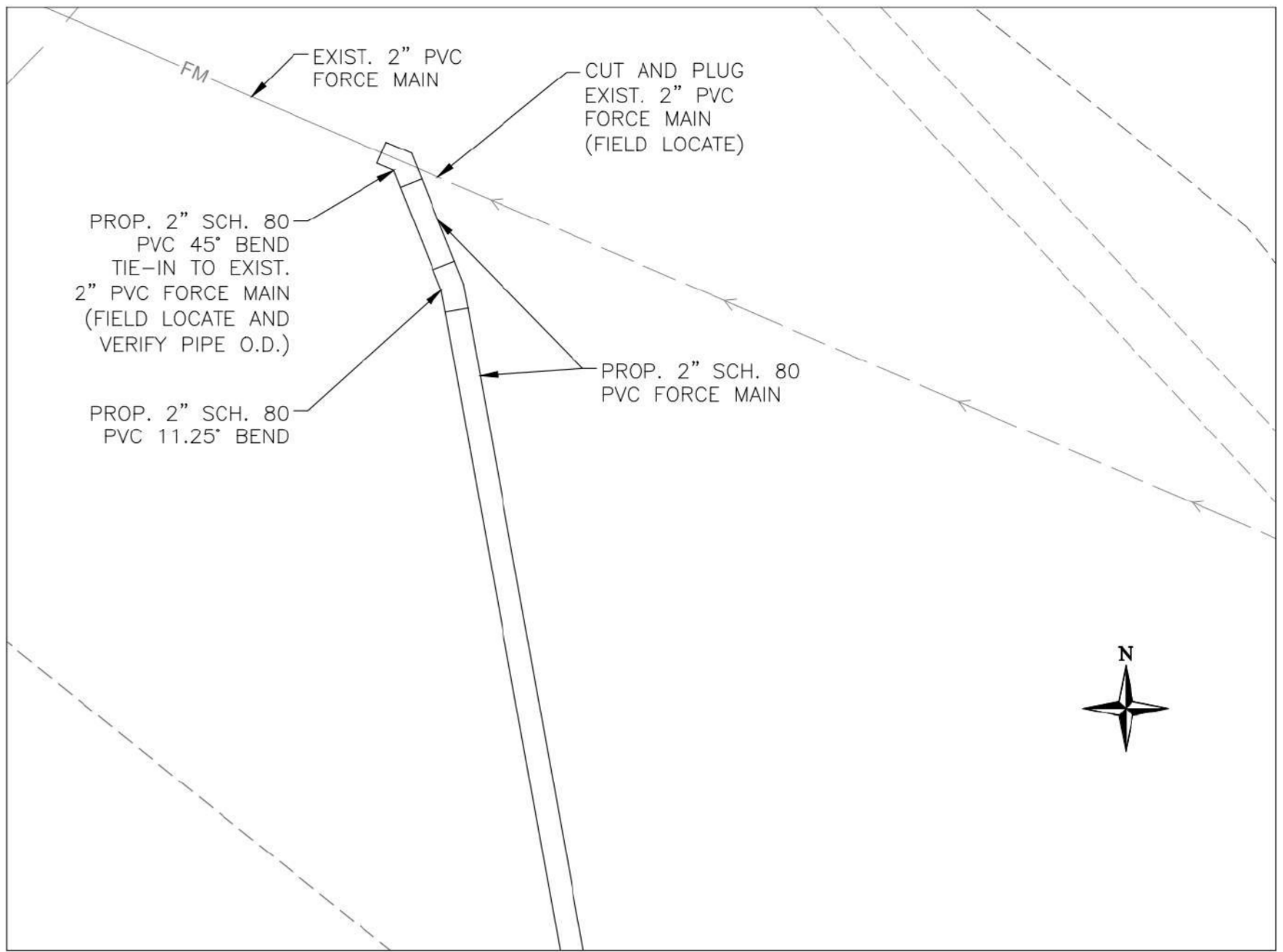
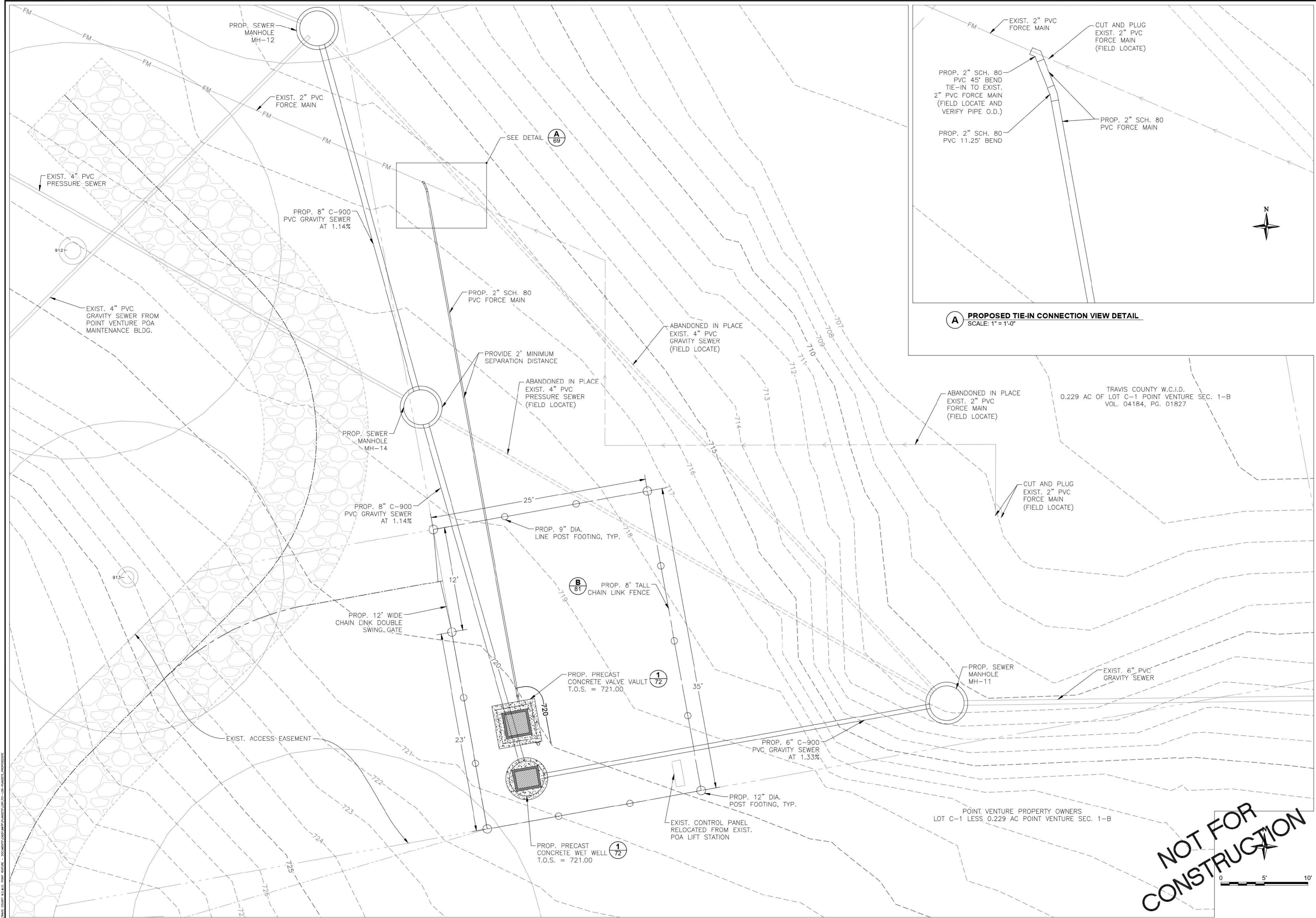
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CHECKED BY: DV
SCALE: 1" = 2'
DATE: 7/18/2022
PR. NO: 701-023-300
FILE: 701-023-300-DEMOLITION

Tribhydro
Engineering Firm F-131
Texas Survey Firm 10194248 Board#6
1005 E. Saint Elmo Rd Building 7 1011 West County Line Rd
Austin, Texas 78745 New Braunfels, Texas 78130
(P) 512-462-2308 (F) 512-462-3588 (F) 512-462-3544
www.tribhydro.com

**POA LIFT STATION
EXISTING SITE AND DEMOLITION PLAN**

0.15 MGD WWTP

**TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS**



A PROPOSED TIE-IN CONNECTION VIEW DETAIL
SCALE: 1" = 1'-0"



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REV.	DATE	DESCRIPTION	BY	CHKD	DV
A	07/19/2022	ISSUE FOR 90% DESIGN	KP		

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CHECKED BY: DV	SCALE: AS SHOWN
DATE: 8/4/2022	PR. NO: 701-023-300
FILE: 701-023-300-01	

Texas Engineering Firm F-131
 1005 E. Saint Elmo Rd. Building 7
 Austin, Texas 78745
 (P) 512-424-2308 (F) 512-424-3541
 www.tribhydro.com

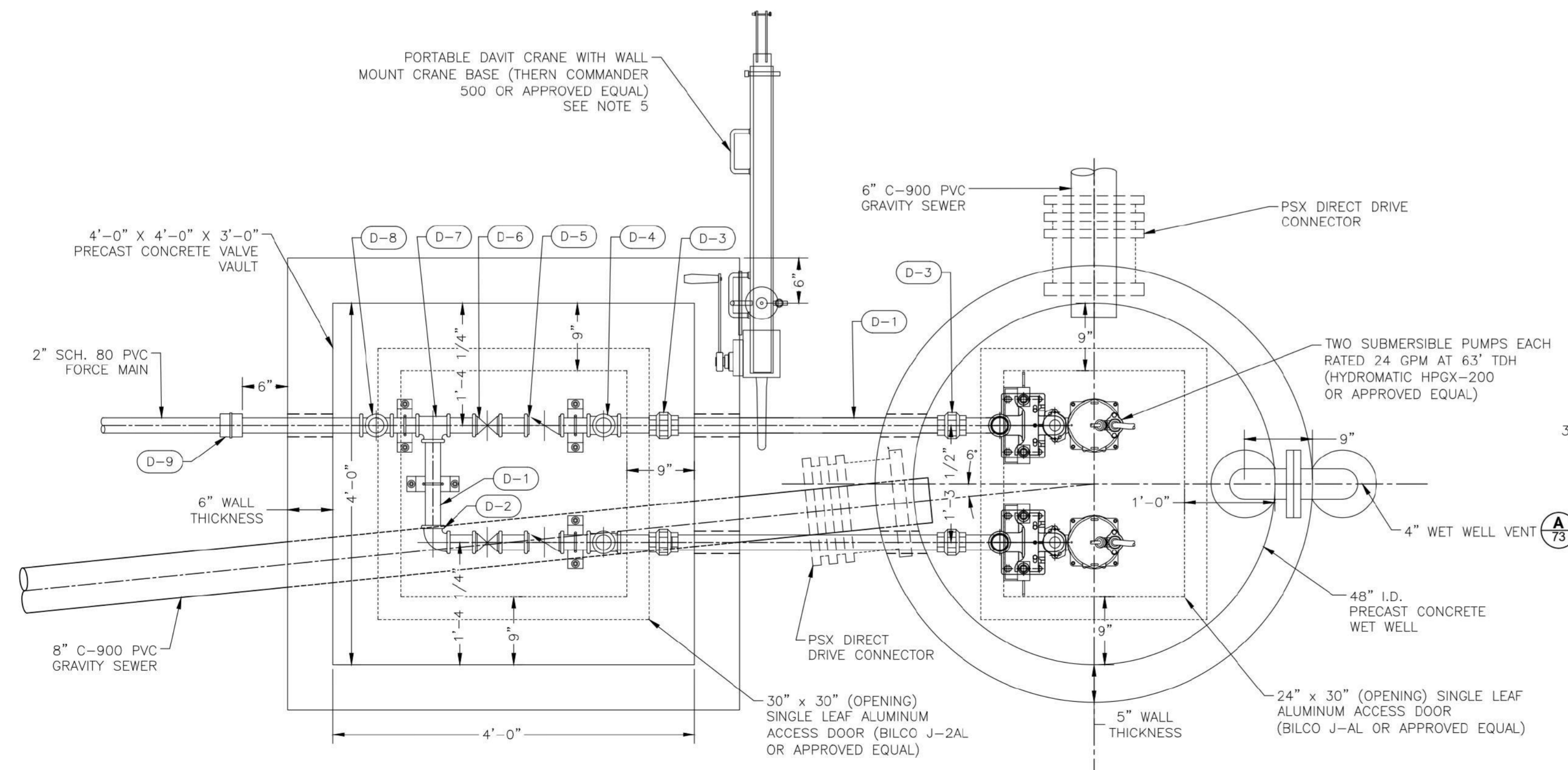
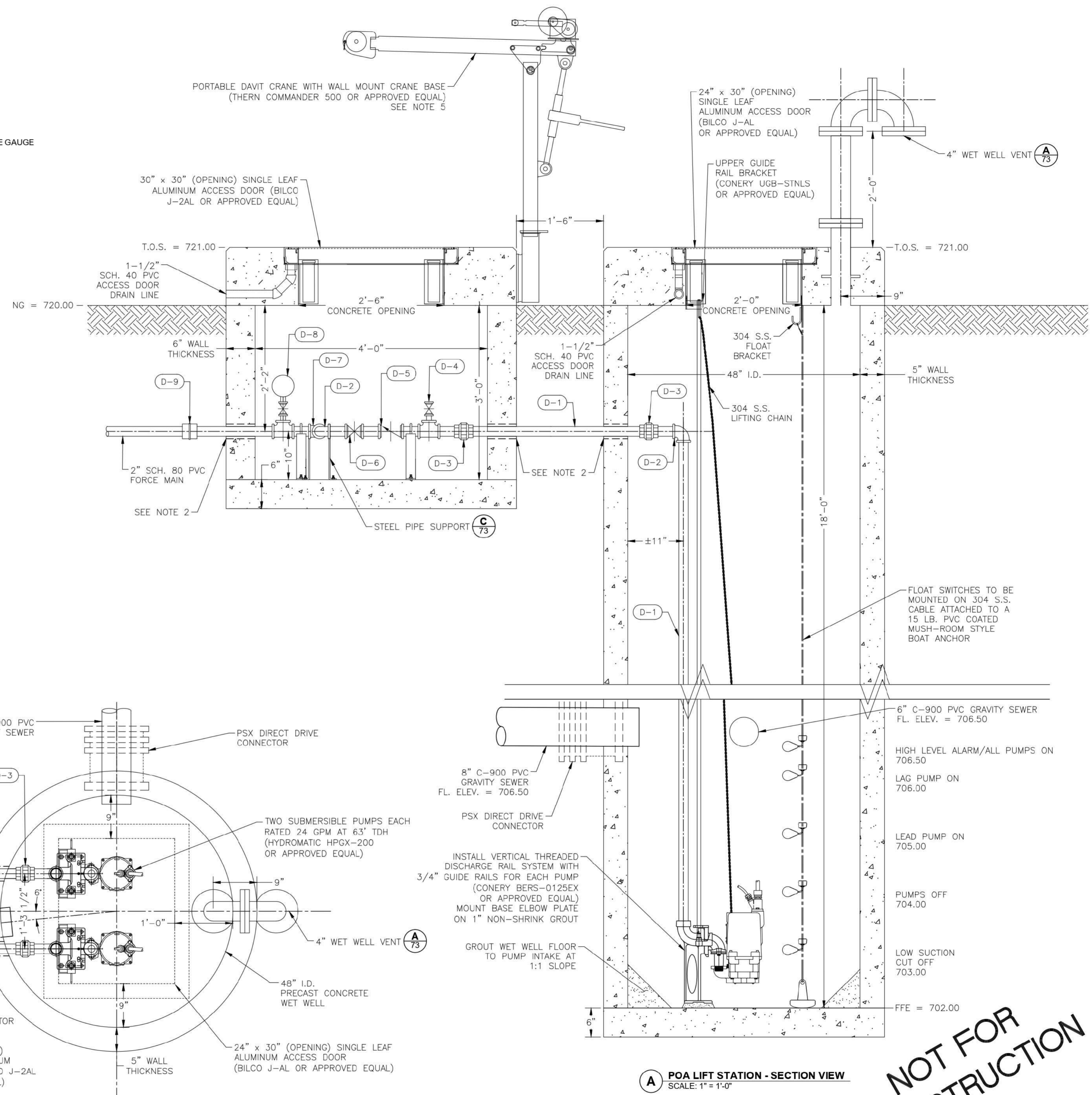
POA LIFT STATION
 PROPOSED SITE
 0.15 MGD WWTP
 TRAVIS COUNTY W.C.&I.D. POINT VENTURE
 POINT VENTURE, TEXAS

LIFT STATION PIPING SCHEDULE

MARK	ITEM	QUANTITY	DESCRIPTION
D-1	2" STEEL SPOOL PIECE	17	GALV. NPT X NPT, LENGTHS VARY
D-2	2" STEEL 90° BEND	3	GALV. NPT X NPT
D-3	2" STEEL UNION	4	GALV. NPT X NPT
D-4	2" STEEL TEE	2	GALV. NPT X NPT WITH 2" X 1" BUSHING AND 1" S.S. BALL VALVE
D-5	2" CHECK VALVE	2	BRONZE, NPT
D-6	2" GATE VALVE	2	BRONZE, NPT
D-7	2" STEEL TEE	1	GALV. NPT X NPT
D-8	2" STEEL TEE	1	GALV. NPT X NPT WITH 2" X 1" BUSHING, 1" S.S. BALL VALVE, AND S.S. PRESSURE GAUGE
D-9	2" PVC ADAPTER	1	SCH. 80, NPT X SLIP

LIFT STATION NOTES:

- 2 INCH PIPING SHALL BE SCH. 40 GALVANIZED STEEL AND FITTINGS SHALL BE CLASS 300, GALVANIZED MALLEABLE IRON UNLESS NOTED OTHERWISE.
- INSTALL 3" PVC SLEEVE THROUGH WALL. AFTER, INSTALL 2" SCH. 40 GALV. STL. PIPE AND FILL ANNULAR SPACE WITH SIKAFLEX-1A.
- ALL HARDWARE (NUTS, BOLTS, WASHERS, ANCHORS, ETC.) INSTALLED IN THE WET WELL SHALL BE 304 S.S.
- INTERIOR OF WET WELL SHALL BE COATED WITH RAVEN 405 OR APPROVED EQUAL.
- FURNISH ONE PORTABLE DAVIT CRANE TO BE UTILIZED BETWEEN WHISPERING HOLLOW AND POA LIFT STATIONS. PORTABLE DAVIT CRANE SHALL BE INITIALLY INSTALLED AT POA LIFT STATION.
- EXISTING LCRA FLOOD EASEMENT EXTENTS IS FROM THE 715.00 CONTOUR TO CENTER OF LAKE TRAVIS.
- THE FEMA 100 YEAR FLOODPLAIN WATER SURFACE ELEVATION IS 722.00.



1 POA LIFT STATION - PLAN VIEW
SCALE: 1" = 1'-0"

A POA LIFT STATION - SECTION VIEW
SCALE: 1" = 1'-0"

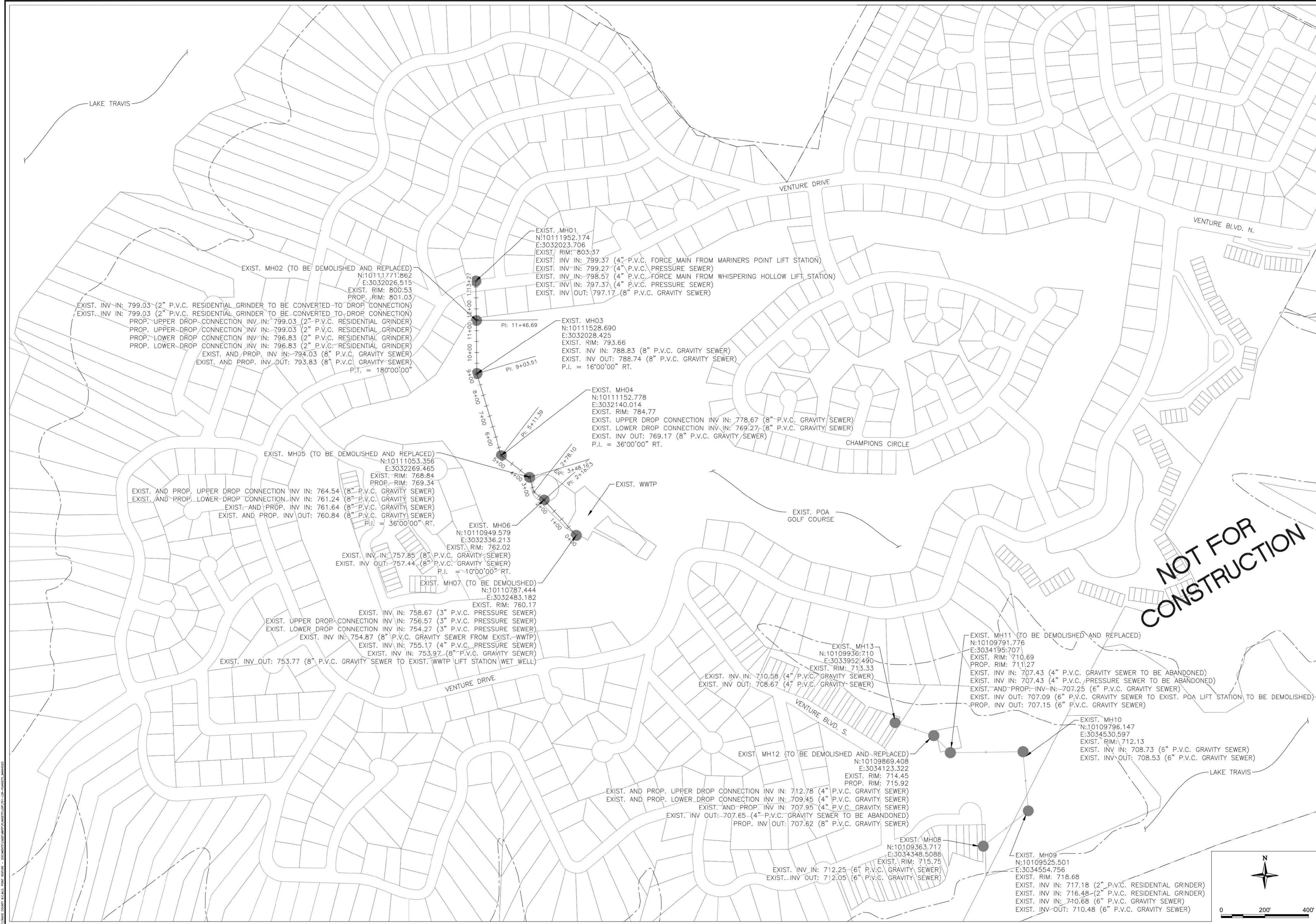
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CHECKED BY: DV	A	07/19/2022			
SCALE: 1" = 1'-0"					
DATE: 8/3/2022					
PR. NO: 701-023-300					
FILE: \\sdc\share\dwg\p\1506263541					

DRAWN BY: KP	DESIGNED BY: DV, SY
CHECKED BY: DV	ISSUE FOR 90% DESIGN
SCALE: 1" = 1'-0"	DATE
DATE: 8/3/2022	REV.
PR. NO: 701-023-300	DESCRIPTION
FILE: \\sdc\share\dwg\p\1506263541	REVISIONS

Trihydro CORPORATION Texas Survey Firm 10144 Judd Road Austin, Texas 78745 (P) 512.462.3388 (F) 512.462.3541 www.trihydro.com	POA LIFT STATION PLAN AND SECTION VIEW
1005 E. Saint Elmo Rd Building 7 Austin, Texas 78745 (P) 512.462.3388 (F) 512.462.3541 www.trihydro.com	0.15 MGD WWTP TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS

SHEET	72
72 OF 83	
REV: A	



LAKE TRAVIS

VENTURE DRIVE

VENTURE BLVD. N.

CHAMPIONS CIRCLE

EXIST. POA GOLF COURSE

NOT FOR CONSTRUCTION

EXIST. MH02 (TO BE DEMOLISHED AND REPLACED)
 N:10111771.862
 E:3032026.515
 EXIST. RIM: 800.53
 PROP. RIM: 801.03

EXIST. INV IN: 799.03 (2" P.V.C. RESIDENTIAL GRINDER TO BE CONVERTED TO DROP CONNECTION)
 EXIST. INV IN: 799.03 (2" P.V.C. RESIDENTIAL GRINDER TO BE CONVERTED TO DROP CONNECTION)
 PROP. UPPER DROP CONNECTION INV IN: 799.03 (2" P.V.C. RESIDENTIAL GRINDER)
 PROP. UPPER DROP CONNECTION INV IN: 799.03 (2" P.V.C. RESIDENTIAL GRINDER)
 PROP. LOWER DROP CONNECTION INV IN: 796.83 (2" P.V.C. RESIDENTIAL GRINDER)
 PROP. LOWER DROP CONNECTION INV IN: 796.83 (2" P.V.C. RESIDENTIAL GRINDER)
 EXIST. AND PROP. INV IN: 794.03 (8" P.V.C. GRAVITY SEWER)
 EXIST. AND PROP. INV OUT: 793.83 (8" P.V.C. GRAVITY SEWER)
 P.T. = 180°00'00"

EXIST. MH01
 N:10111952.174
 E:3032023.706
 EXIST. RIM: 803.37

EXIST. INV IN: 799.37 (4" P.V.C. FORCE MAIN FROM MARINERS POINT LIFT STATION)
 EXIST. INV IN: 799.27 (4" P.V.C. PRESSURE SEWER)
 EXIST. INV IN: 798.57 (4" P.V.C. FORCE MAIN FROM WHISPERING HOLLOW LIFT STATION)
 EXIST. INV IN: 797.37 (4" P.V.C. PRESSURE SEWER)
 EXIST. INV OUT: 797.17 (8" P.V.C. GRAVITY SEWER)

EXIST. MH03
 N:10111528.690
 E:3032028.425
 EXIST. RIM: 793.66

EXIST. INV IN: 788.83 (8" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 788.74 (8" P.V.C. GRAVITY SEWER)
 P.I. = 16°00'00" RT.

EXIST. MH04
 N:10111152.778
 E:3032140.014
 EXIST. RIM: 784.77

EXIST. UPPER DROP CONNECTION INV IN: 778.67 (8" P.V.C. GRAVITY SEWER)
 EXIST. LOWER DROP CONNECTION INV IN: 769.27 (8" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 769.17 (8" P.V.C. GRAVITY SEWER)
 P.I. = 36°00'00" RT.

EXIST. MH05 (TO BE DEMOLISHED AND REPLACED)
 N:10111053.356
 E:3032269.465
 EXIST. RIM: 768.84
 PROP. RIM: 769.34

EXIST. AND PROP. UPPER DROP CONNECTION INV IN: 764.54 (8" P.V.C. GRAVITY SEWER)
 EXIST. AND PROP. LOWER DROP CONNECTION INV IN: 761.24 (8" P.V.C. GRAVITY SEWER)
 EXIST. AND PROP. INV IN: 761.64 (8" P.V.C. GRAVITY SEWER)
 EXIST. AND PROP. INV OUT: 760.84 (8" P.V.C. GRAVITY SEWER)
 P.I. = 36°00'00" RT.

EXIST. MH06
 N:10110949.579
 E:3032336.213
 EXIST. RIM: 762.02

EXIST. INV IN: 757.85 (8" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 757.44 (8" P.V.C. GRAVITY SEWER)
 P.I. = 10°00'00" RT.

EXIST. MH07 (TO BE DEMOLISHED)
 N:10110787.444
 E:3032483.182
 EXIST. RIM: 760.17

EXIST. INV IN: 758.67 (3" P.V.C. PRESSURE SEWER)
 EXIST. UPPER DROP CONNECTION INV IN: 756.57 (3" P.V.C. PRESSURE SEWER)
 EXIST. LOWER DROP CONNECTION INV IN: 754.27 (3" P.V.C. PRESSURE SEWER)
 EXIST. INV IN: 754.87 (8" P.V.C. GRAVITY SEWER FROM EXIST. WWTP)
 EXIST. INV IN: 755.17 (4" P.V.C. PRESSURE SEWER)
 EXIST. INV IN: 753.97 (8" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 753.77 (8" P.V.C. GRAVITY SEWER TO EXIST. WWTP LIFT STATION WET WELL)

EXIST. MH13
 N:10109936.710
 E:3033952.490
 EXIST. RIM: 713.33

EXIST. INV IN: 710.58 (4" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 708.67 (4" P.V.C. GRAVITY SEWER)

EXIST. MH11 (TO BE DEMOLISHED AND REPLACED)
 N:10109791.776
 E:3034195.707
 EXIST. RIM: 710.69
 PROP. RIM: 711.27

EXIST. INV IN: 707.43 (4" P.V.C. GRAVITY SEWER TO BE ABANDONED)
 EXIST. INV IN: 707.43 (4" P.V.C. PRESSURE SEWER TO BE ABANDONED)
 EXIST. AND PROP. INV IN: 707.25 (6" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 707.09 (6" P.V.C. GRAVITY SEWER TO EXIST. POA LIFT STATION TO BE DEMOLISHED)
 PROP. INV OUT: 707.15 (6" P.V.C. GRAVITY SEWER)

EXIST. MH10
 N:10109796.147
 E:3034530.597
 EXIST. RIM: 712.13

EXIST. INV IN: 708.73 (6" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 708.53 (6" P.V.C. GRAVITY SEWER)

EXIST. MH12 (TO BE DEMOLISHED AND REPLACED)
 N:10109869.408
 E:3034123.322
 EXIST. RIM: 714.45
 PROP. RIM: 715.92

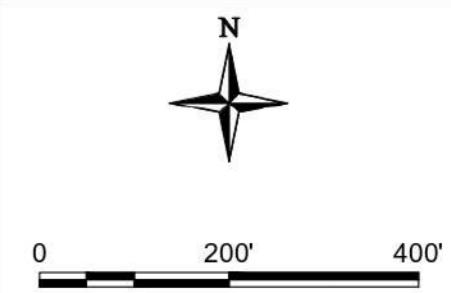
EXIST. AND PROP. UPPER DROP CONNECTION INV IN: 712.78 (4" P.V.C. GRAVITY SEWER)
 EXIST. AND PROP. LOWER DROP CONNECTION INV IN: 709.45 (4" P.V.C. GRAVITY SEWER)
 EXIST. AND PROP. INV IN: 707.95 (4" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 707.65 (4" P.V.C. GRAVITY SEWER TO BE ABANDONED)
 PROP. INV OUT: 707.62 (8" P.V.C. GRAVITY SEWER)

EXIST. MH08
 N:10109363.717
 E:3034348.5088
 EXIST. RIM: 715.75

EXIST. INV IN: 712.25 (6" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 712.05 (6" P.V.C. GRAVITY SEWER)

EXIST. MH09
 N:10109525.501
 E:3034554.756
 EXIST. RIM: 718.68

EXIST. INV IN: 717.18 (2" P.V.C. RESIDENTIAL GRINDER)
 EXIST. INV IN: 716.48 (2" P.V.C. RESIDENTIAL GRINDER)
 EXIST. INV IN: 710.68 (6" P.V.C. GRAVITY SEWER)
 EXIST. INV OUT: 710.48 (6" P.V.C. GRAVITY SEWER)



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ISSUE FOR 70% DESIGN		REV. DATE		DESCRIPTION		BY		KP		DV		CHKD	
A		07/19/2022											

EXISTING MANHOLES OVERVIEW MAP AND RENOVATION PLAN

0.15 MGD WWTP

TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS

SHEET **74**
74 OF 83
REV: A





1 MANHOLE 02
SCALE: NONE

NOTE:

EXISTING MH02 TO BE DEMOLISHED AND REPLACED. INSTALL STANDARD 48-INCH DIAMETER MANHOLE WITH (2) DROP CONNECTIONS AND STANDARD RING AND COVER.

EXISTING MH02 IS ADJACENT TO HOMEOWNER'S BACK PROPERTY LOT CORNER AND IN THE VICINITY OF EXISTING IRON WROUGHT FENCING. CONTRACTOR, WITH HOMEOWNER'S APPROVAL, SHALL REMOVE PORTIONS OF FENCING TO ALLOW FOR ADEQUATE SPACE TO PERFORM MANHOLE REPLACEMENT. ONCE MANHOLE IMPROVEMENTS ARE COMPLETE, CONTRACTOR SHALL RE-INSTALL HOMEOWNER'S FENCING AT ORIGINAL CONDITION.



2 MANHOLE 05
SCALE: NONE

NOTE:

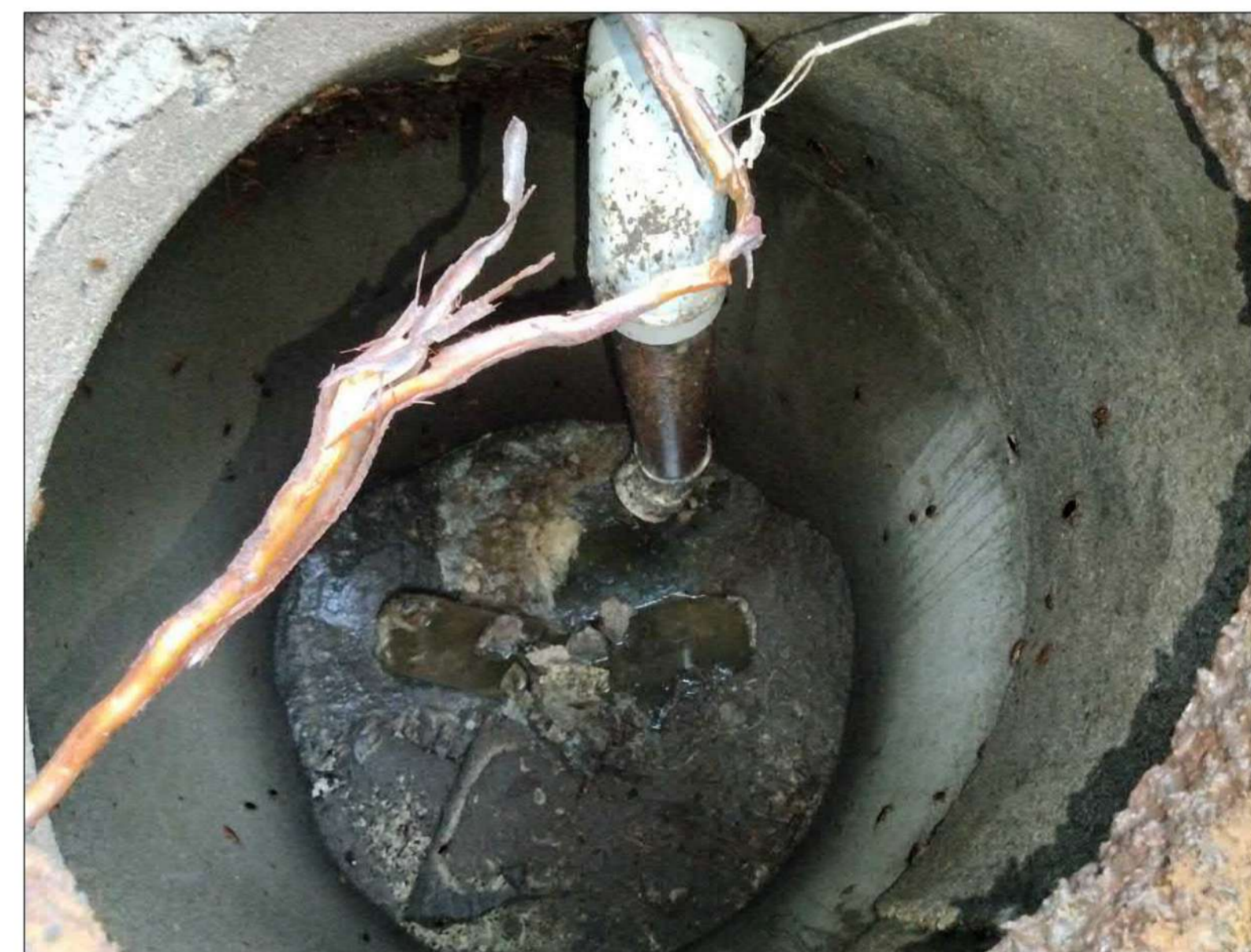
EXISTING MH05 TO BE DEMOLISHED AND REPLACED. INSTALL STANDARD 48-INCH DIAMETER MANHOLE WITH (1) DROP CONNECTION AND STANDARD RING AND COVER.



3 MANHOLE 11
SCALE: NONE

NOTE:

EXISTING MH11 TO BE DEMOLISHED AND REPLACED. INSTALL STANDARD 48-INCH DIAMETER MANHOLE WITH FLATTOP AND BOLTED RING AND COVER.



4 MANHOLE 12
SCALE: NONE

NOTE:

EXISTING MH12 TO BE DEMOLISHED AND REPLACED. INSTALL STANDARD 48-INCH DIAMETER MANHOLE WITH (1) DROP CONNECTION AND BOLTED RING AND COVER.

NOT FOR
CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	CHKD
A	06/10/2022	ISSUE FOR 70% DESIGN	KP	DV

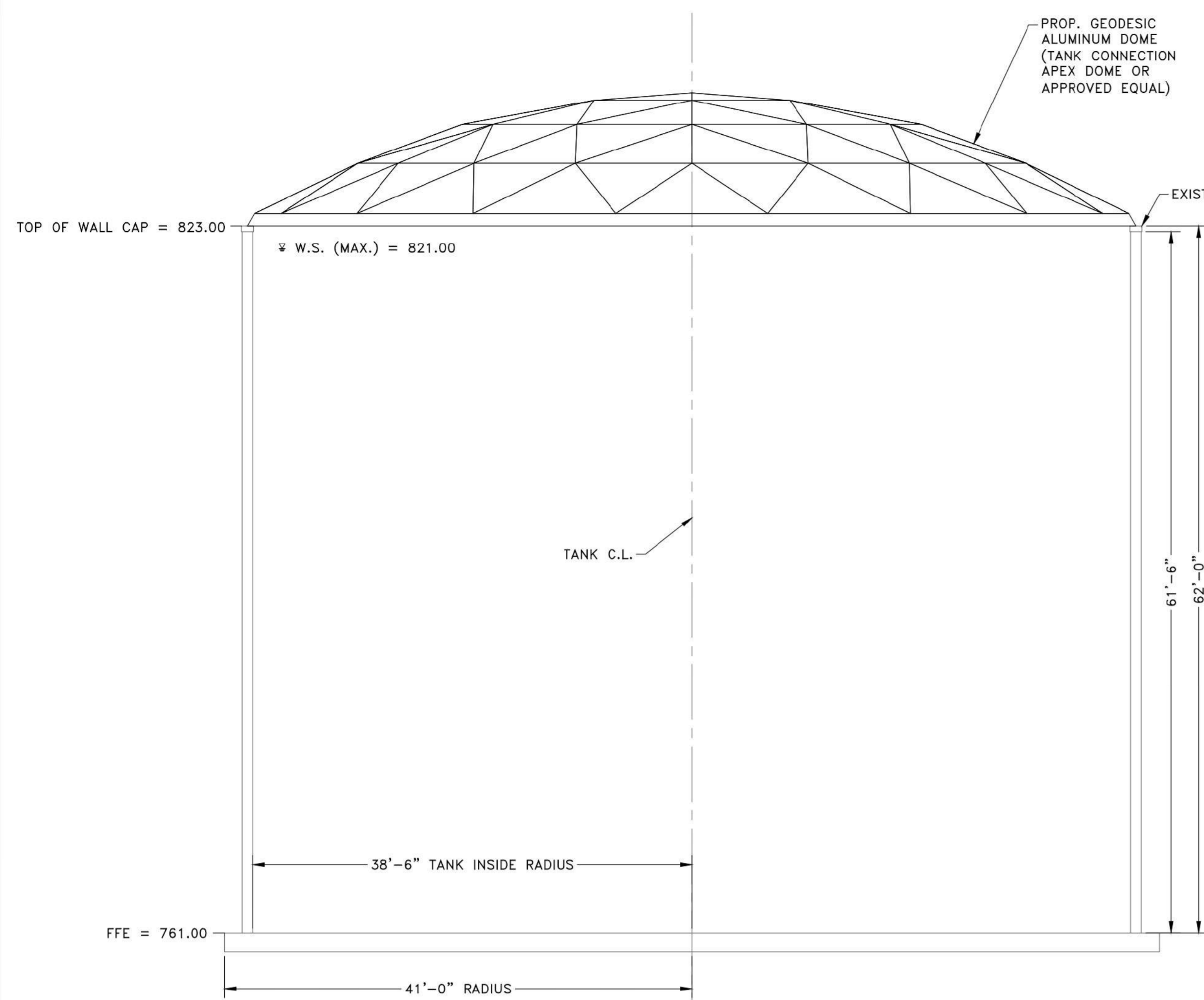
REV.	DATE	DESCRIPTION	BY	CHKD

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DESIGNED BY: DV, SY
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SCALE: N.T.S.
DATE: 7/18/2022
PR. NO: 701-023-300
FILE: 701-023-300-REVISED.DWG

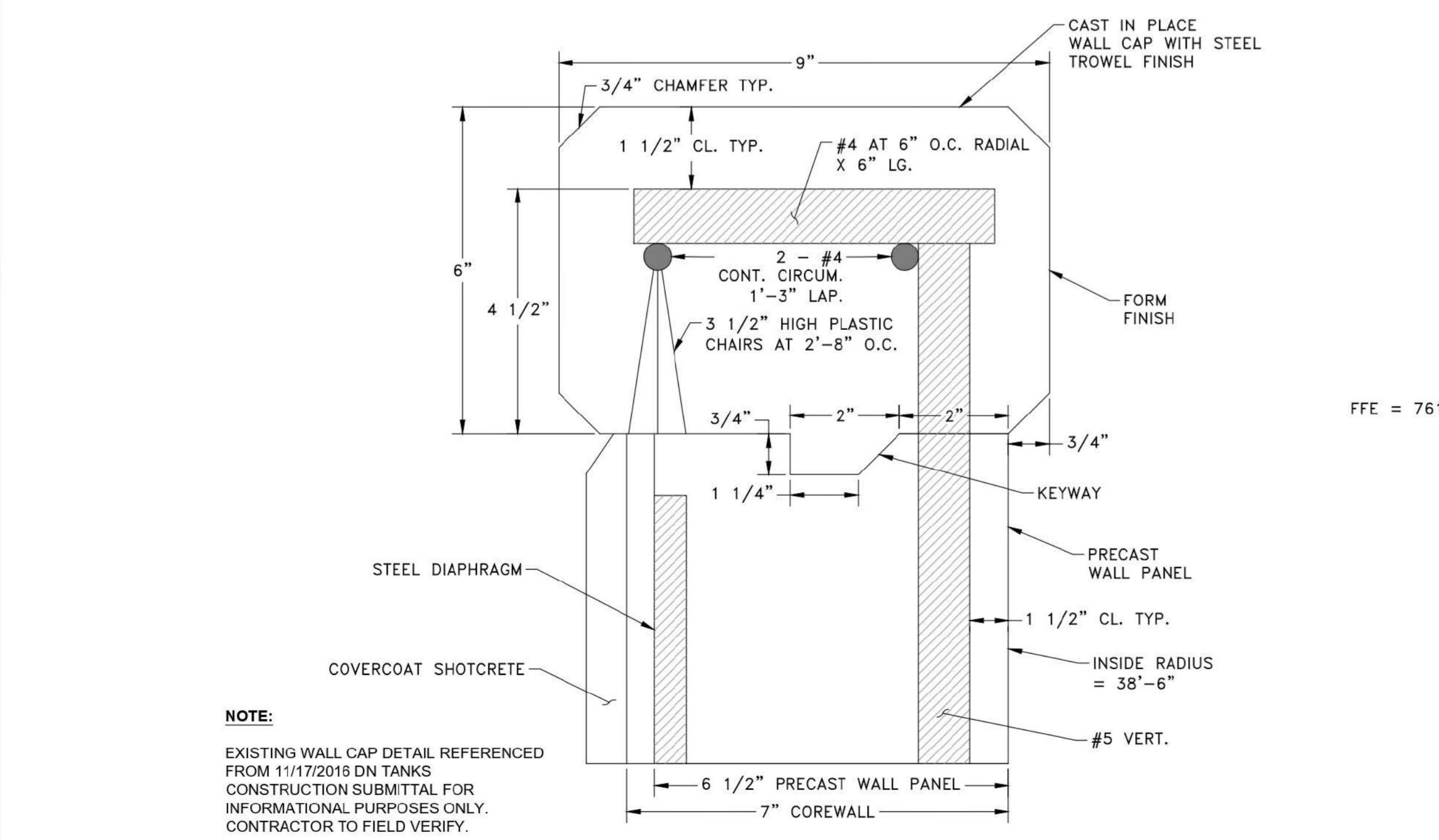
Trihydro
CORPORATION
Texas Engineering Firm F-131
Texas Survey Firm 10194248 Board#6
1005 E. Saint Elmo Rd Building 7 1011 West County Line Rd
Austin, Texas 78745 New Braunfels, Texas 78130
(P) 512-482-2308 (F) 512-775-1729 (F) 800-626-3585 (F) 800-626-3584
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MANHOLE RENOVATION SCHEDULE
0.15 MGD WWTP
TRAVIS COUNTY W.C.&I.D. POINT VENTURE
POINT VENTURE, TEXAS

SHEET
74
74 OF 83
REV: A

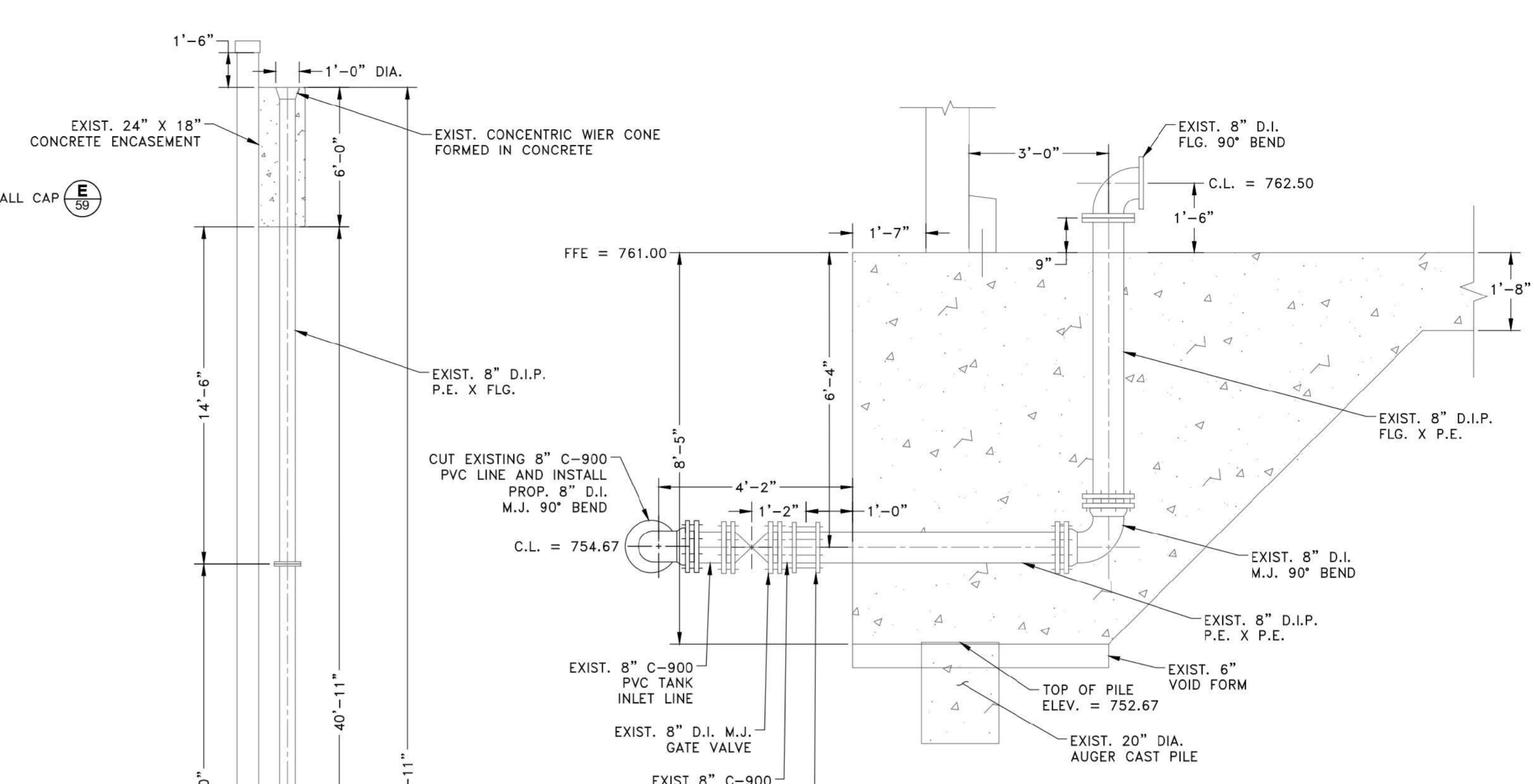


A SECTION PLAN
SCALE: 1/8" = 1'-0"

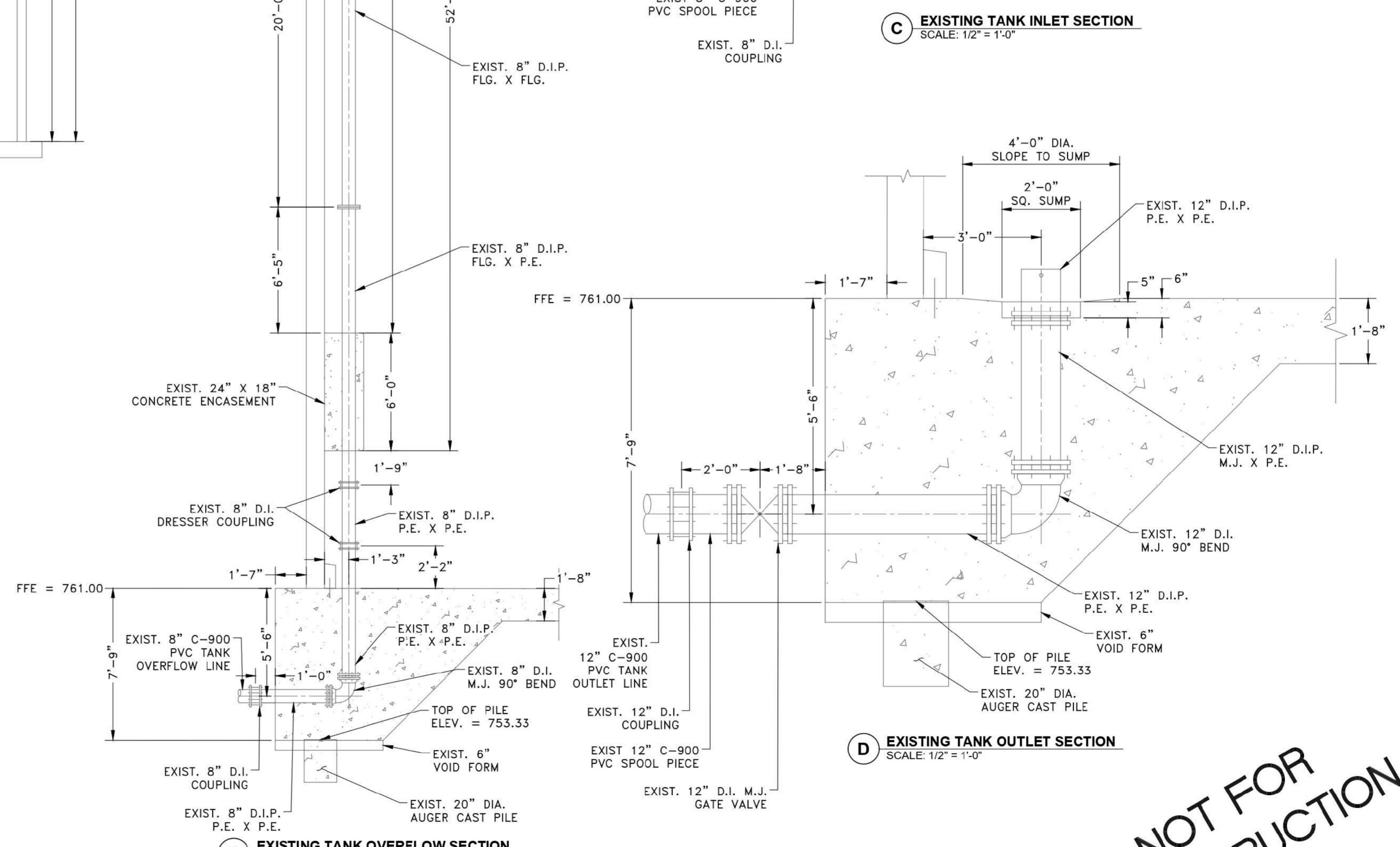


E EXISTING WALL CAP DETAIL
SCALE: N.T.S.

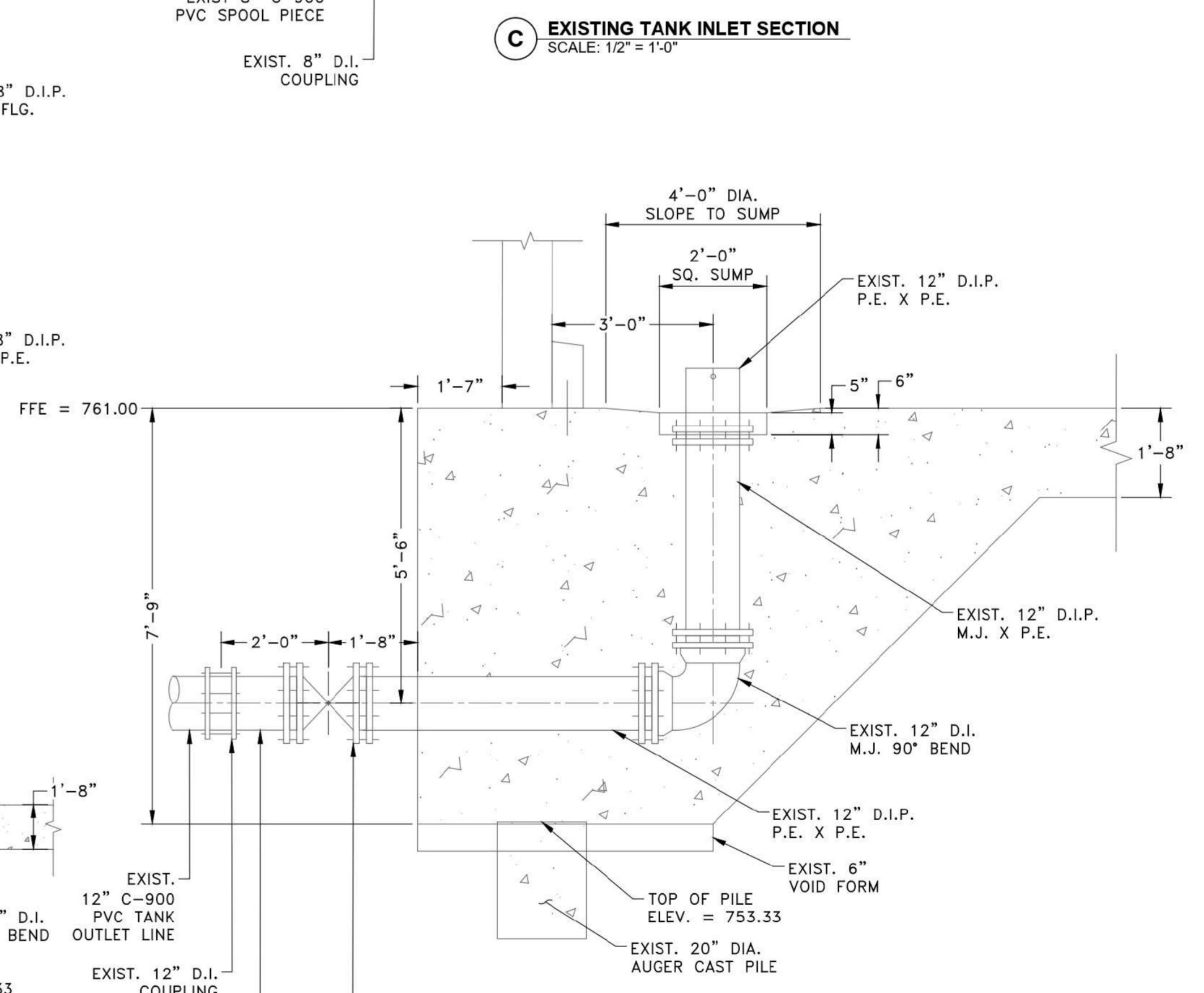
NOTE:
EXISTING WALL CAP DETAIL REFERENCED FROM 11/17/2018 DN TANKS CONSTRUCTION SUBMITTAL FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY.



C EXISTING TANK INLET SECTION
SCALE: 1/2" = 1'-0"



B EXISTING TANK OVERFLOW SECTION
SCALE: 1/4" = 1'-0"

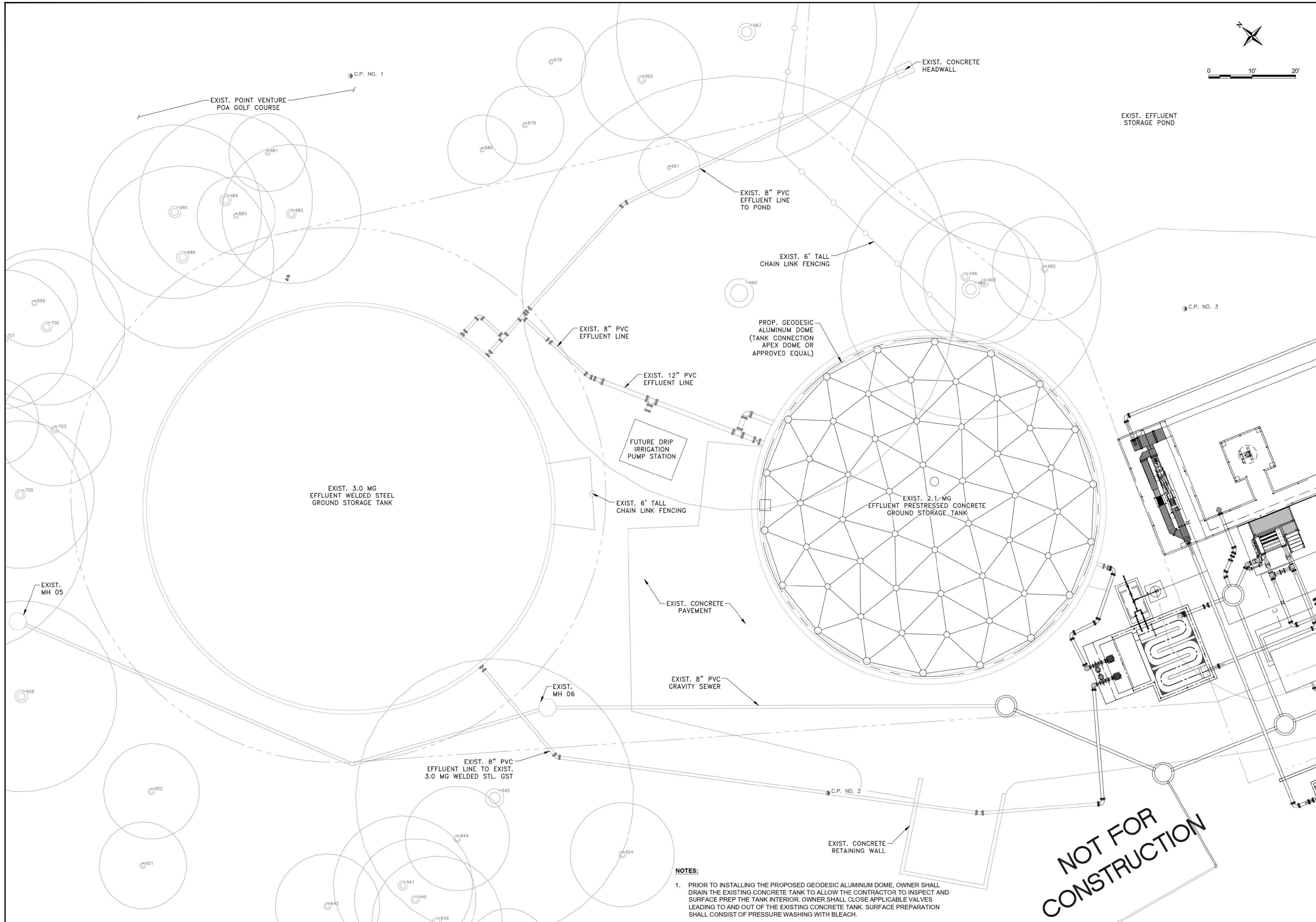


D EXISTING TANK OUTLET SECTION
SCALE: 1/2" = 1'-0"

NOT FOR CONSTRUCTION

TRAVIS COUNTY W.C.&I.D. POINT VENTURE POINT VENTURE, TEXAS	EXISTING 2.1 MG CONCRETE GST RENOVATIONS SECTIONS	0.15 MGD WWTP	REVISIONS
SHEET 59 59 OF 83	REV: A	DATE	DESCRIPTION
DESIGNED BY: DV, SY	CHECKED BY: DV	DATE: 07/18/2022	ISSUE FOR 90% DESIGN
SCALE: AS SHOWN	PR. NO: 701-023-300	REV.	BY
DATE: 8/26/2022	FILE:		CHKD
DRAWN BY: KP			DV
DESIGNED BY: DV, SY			KP
CHECKED BY: DV			BY
SCALE: AS SHOWN			CHKD
DATE: 8/26/2022			
PR. NO: 701-023-300			
FILE:			

Trihydro
CORPORATION
Texas Survey Firm
10149444th Road
1011 West County Line Rd
New Braunfels, Texas 78130
(P) 512-462-3308 (F) 512-462-3541
www.trihydro.com



- NOTES:**
1. PRIOR TO INSTALLING THE PROPOSED GEODESIC ALUMINUM DOME, OWNER SHALL DRAIN THE EXISTING CONCRETE TANK TO ALLOW THE CONTRACTOR TO INSPECT AND SURFACE PREP THE TANK INTERIOR. OWNER SHALL CLOSE APPLICABLE VALVES LEADING TO AND OUT OF THE EXISTING CONCRETE TANK. SURFACE PREPARATION SHALL CONSIST OF PRESSURE WASHING WITH BLEACH.

REV.	DATE	DESCRIPTION	BY	CHKD	DV
A	07/19/2022	ISSUE FOR 90% DESIGN	KP	BY	DV

DRAWN BY: KP
DESIGNED BY: DV, SY
CHECKED BY: DV
SCALE: AS SHOWN
DATE: 9/1/2022
PR. NO: 701-023-300
FILE:

Trihydro
 CORPORATION
 Texas Survey Firm 10142444 Boardwalk
 Austin, Texas 78745 1011 West County Line Rd.
 1005 E. Saint Elmo Rd Building 7 New Braunfels, Texas 78130
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 www.trihydro.com

**EXISTING 2.1 MG CONCRETE
 GST RENOVATIONS
 SITE PLAN**

**0.15 MGD WWTP
 TRAVIS COUNTY W.C.&I.D. POINT VENTURE
 POINT VENTURE, TEXAS**