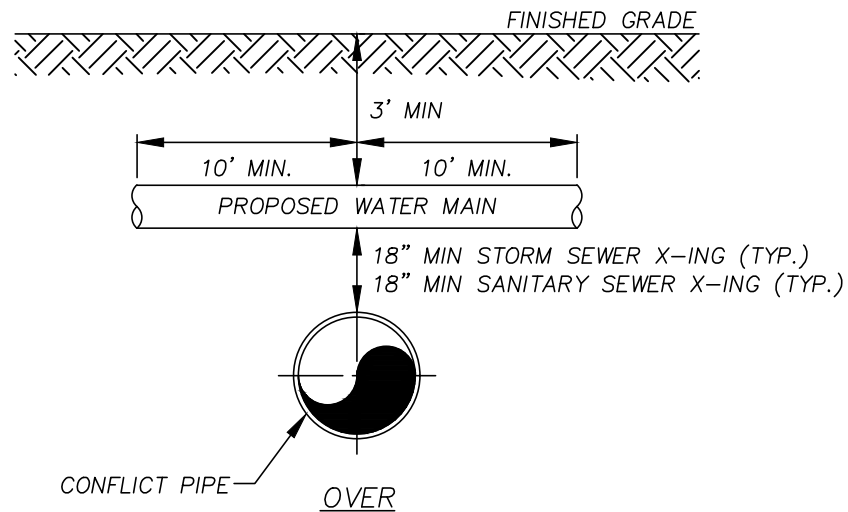
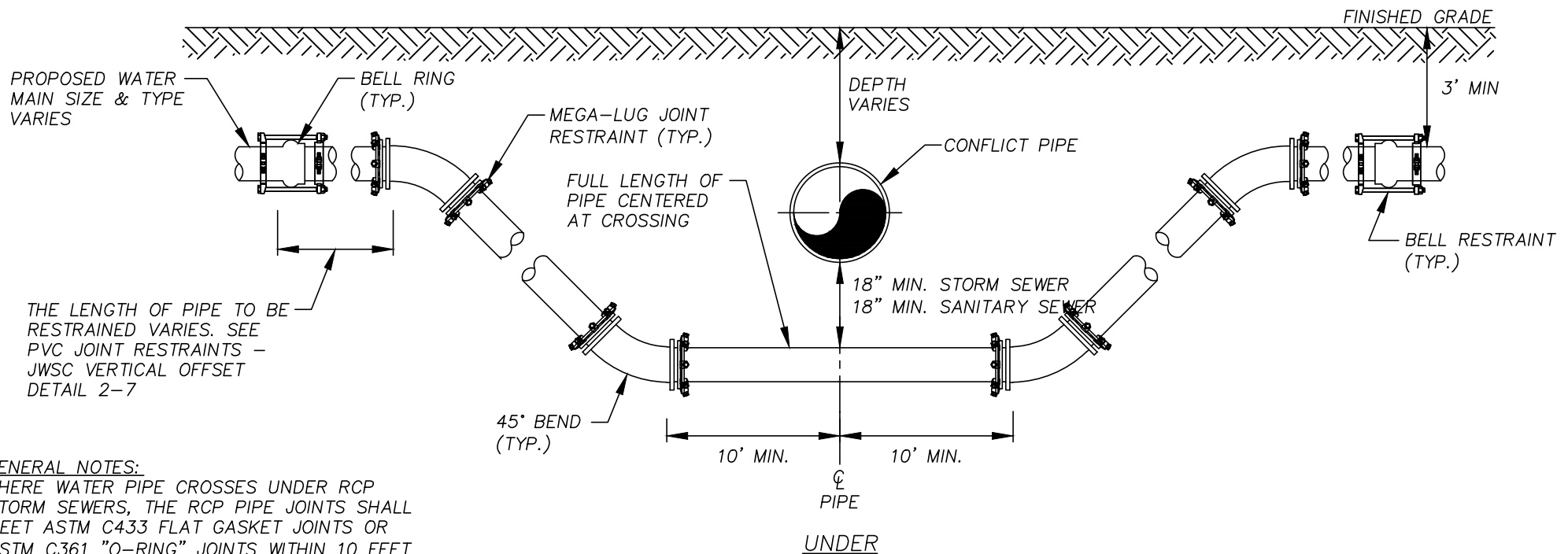




GENERAL NOTES:

WHERE WATER PIPE CROSSES UNDER RCP STORM SEWERS, THE RCP PIPE JOINTS SHALL MEET ASTM C433 FLAT GASKET JOINTS OR ASTM C361 "O-RING" JOINTS WITHIN 10 FEET OF THE WATER MAIN.

NOT TO SCALE



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UTILITY CONFLICT DETAIL

JWSC 2-2

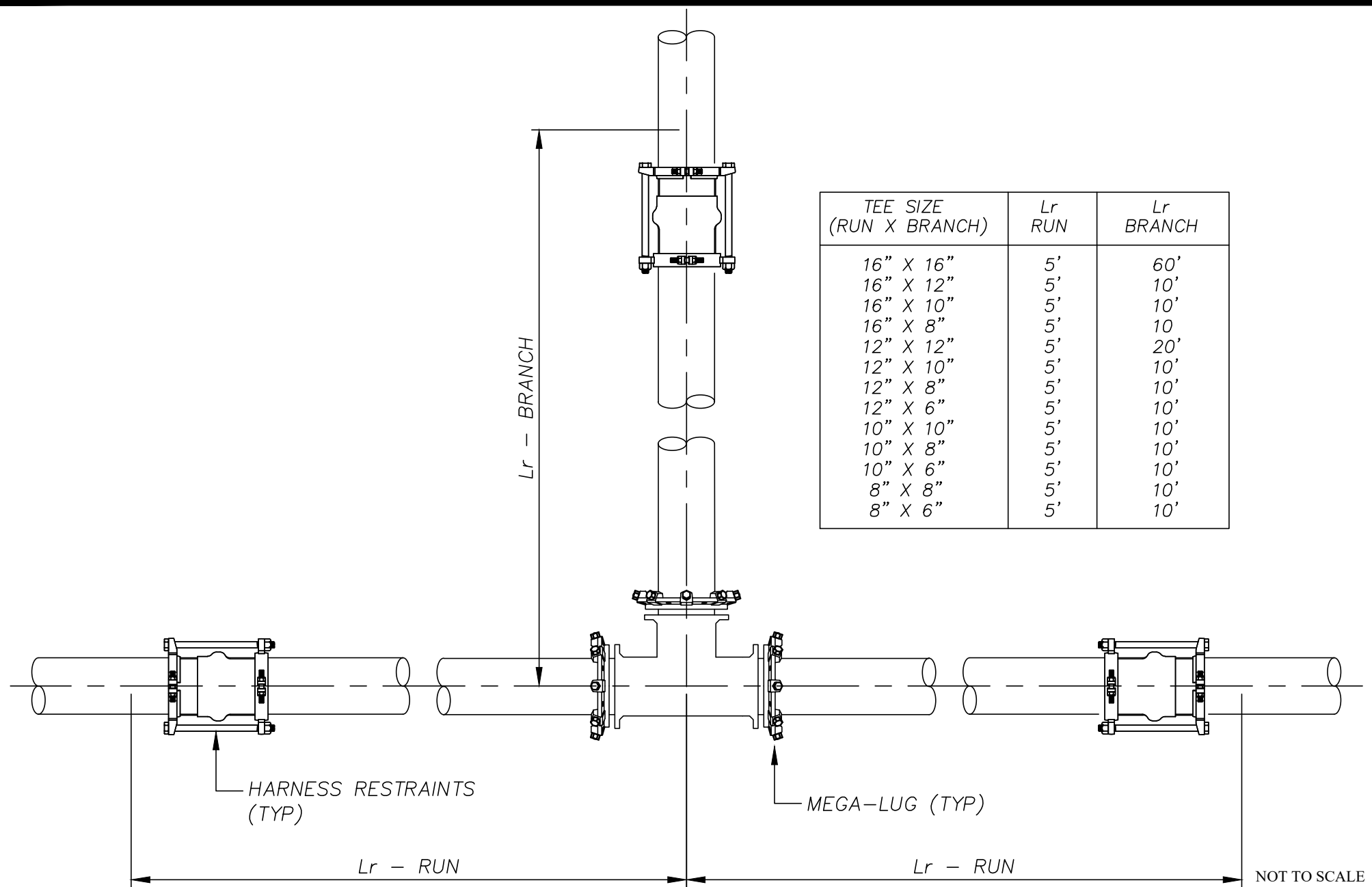
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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TEE SIZE (RUN X BRANCH)	Lr RUN	Lr BRANCH
16" X 16"	5'	60'
16" X 12"	5'	10'
16" X 10"	5'	10'
16" X 8"	5'	10'
12" X 12"	5'	20'
12" X 10"	5'	10'
12" X 8"	5'	10'
12" X 6"	5'	10'
10" X 10"	5'	10'
10" X 8"	5'	10'
10" X 6"	5'	10'
8" X 8"	5'	10'
8" X 6"	5'	10'

NOT TO SCALE



BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

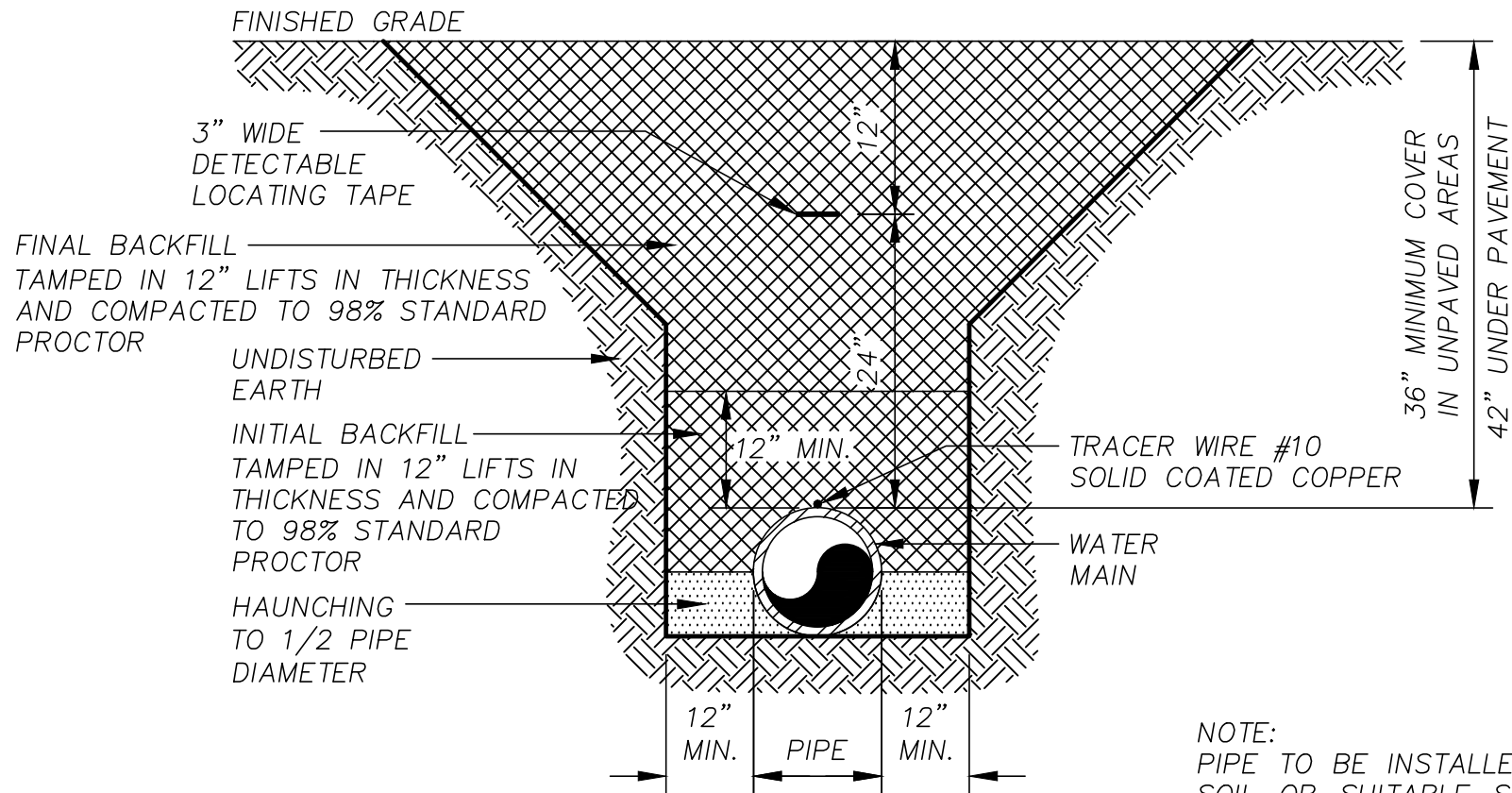
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PVC JOINT RESTRAINT TEE

JWSC 2-3

DESIGNED: BGJWSC
DRAWN: HPATEL
DATE: 05/26/2022
SCALE: NTS

BY	REVISION	DATE
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NOTE:
 PIPE TO BE INSTALLED ON UNDISTURBED
 SOIL OR SUITABLE SOIL COMPACTED TO
 98% MAXIMUM DENSITY. BELL HOLE
 SHALL BE DUG TO PERMIT THE ENTIRE
 STRAIGHT BARREL OF PIPE TO REST ON
 UNDISTURBED TRENCH BOTTOM.

STONES FOUND IN THE TRENCH SHALL
 BE REMOVED FOR A DEPTH OF AT
 LEAST SIX (6) INCHES BELOW THE
 BOTTOM OF THE PIPE.

NOT TO SCALE



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PRESSURE PIPE TRENCH DETAIL

JWSC 2-1

DESIGNED: BGJWSC

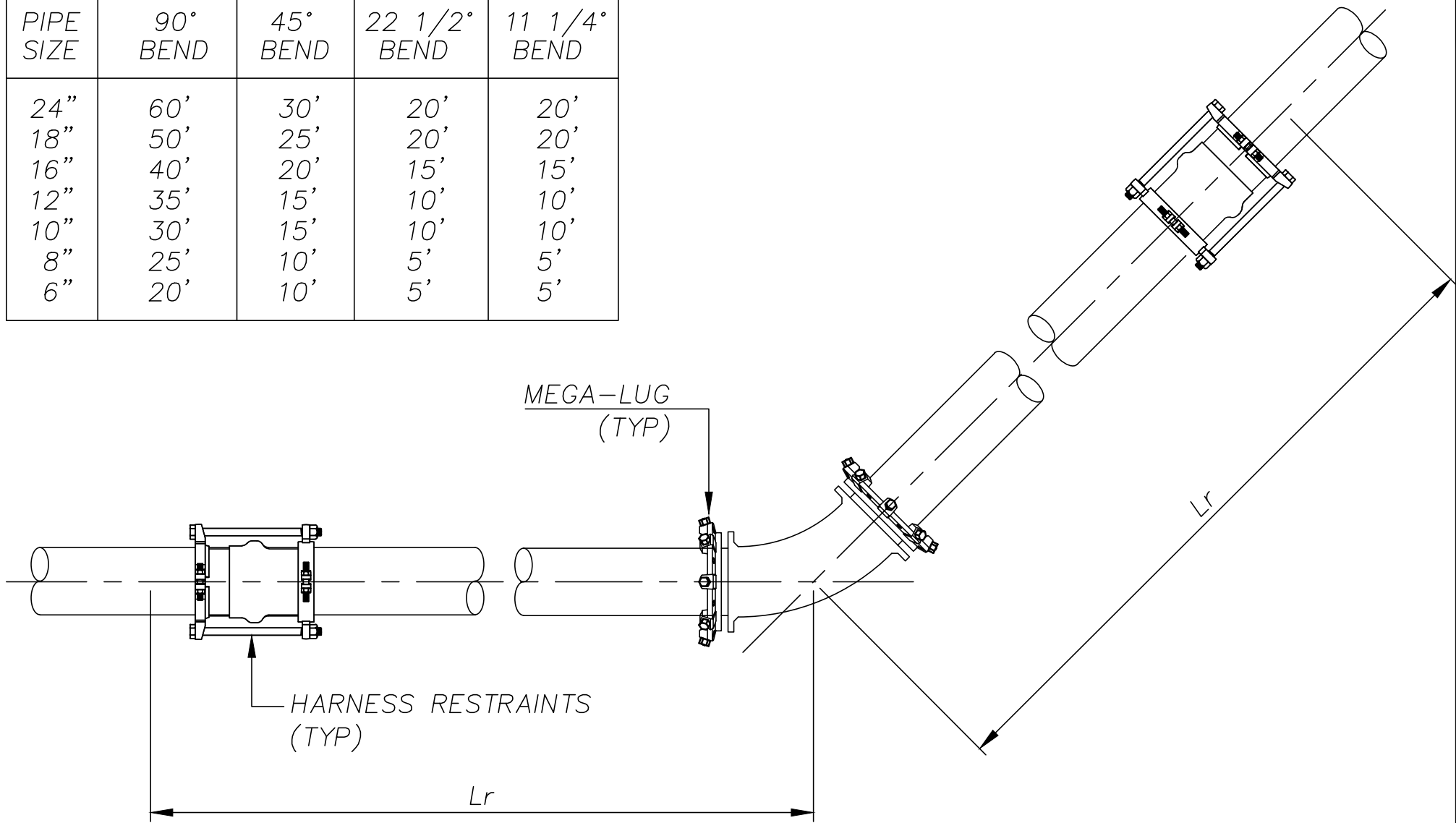
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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PIPE SIZE	<i>Lr</i>			
	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
24"	60'	30'	20'	20'
18"	50'	25'	20'	20'
16"	40'	20'	15'	15'
12"	35'	15'	10'	10'
10"	30'	15'	10'	10'
8"	25'	10'	5'	5'
6"	20'	10'	5'	5'



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PVC JOINT RESTRAINT HORIZONTAL BEND

JWSC 2-4

DESIGNED: BGJWSC

DRAWN: HPATEL

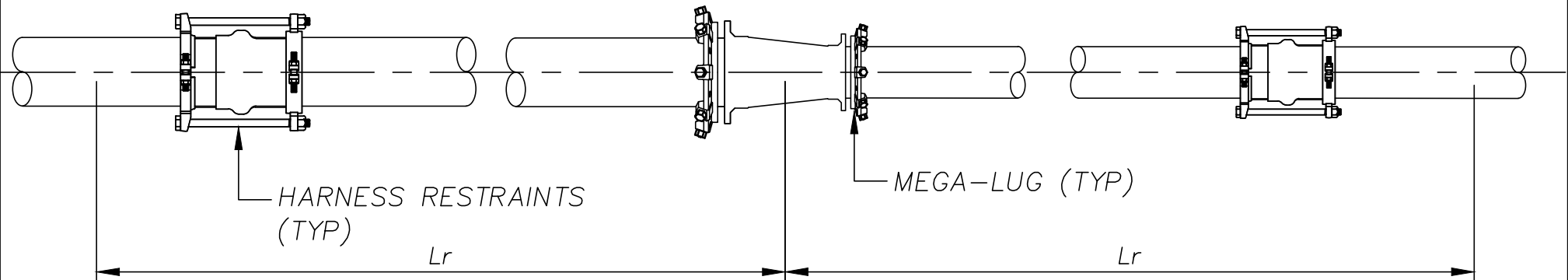
DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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REDUCER SIZE	Lr	REDUCER SIZE	Lr
16" X 12"	60'	24" X 18"	85'
16" X 10"	80'	24" X 16"	105'
16" X 8"	100'	24" X 12"	145'
16" X 6"	115'	24" X 10"	160'
12" X 10"	35'	24" X 8"	170'
12" X 8"	60'	24" X 6"	180'
12" X 6"	80'	18" X 16"	35'
10" X 8"	30'	18" X 12"	85'
10" X 6"	55'	18" X 10"	105'
8" X 6"	35'	18" X 8"	120'
8" X 4"	55'	18" X 6"	135'
6" X 4"	30'		

NOTE: LENGTHS SHOWN TO BE
RESTRAINED ON LARGER SIDE
OF REDUCER



NOT TO SCALE



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PVC JOINT RESTRAINT REDUCER

JWSC 2-5

DESIGNED: BGJWSC

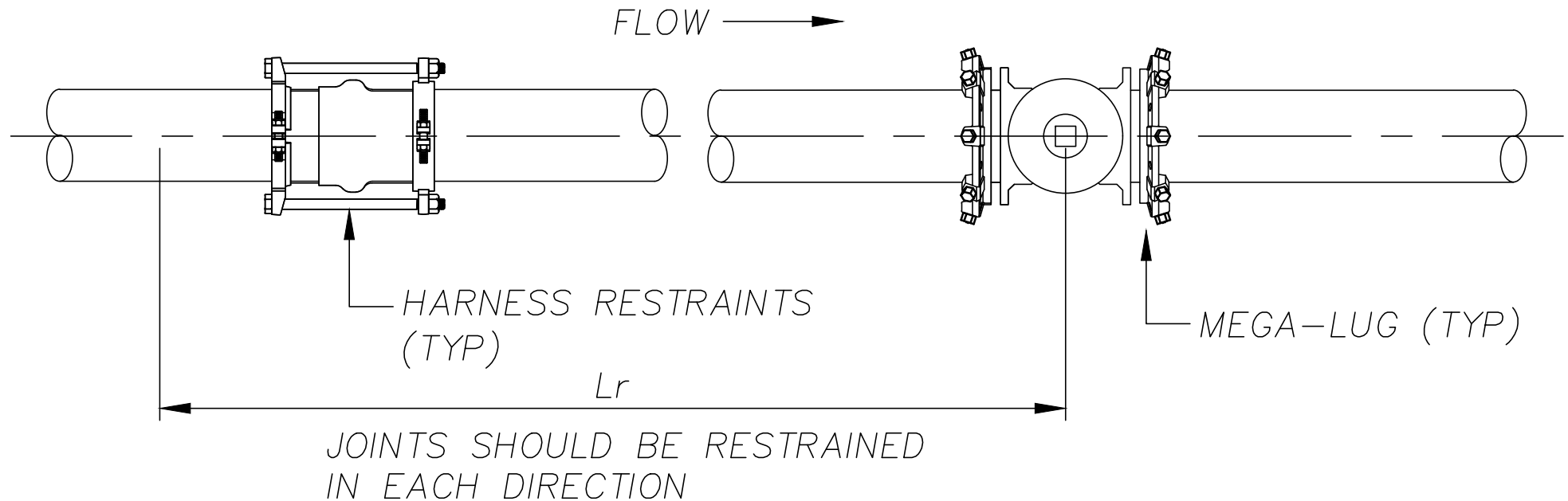
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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LINE SIZE	Lr
18"	170'
16"	155'
12"	120'
10"	100'
8"	85'
6"	65'
4"	50'



NOT TO SCALE



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**PVC JOINT RESTRAINT
IN-LINE VALVE**

JWSC 2-6

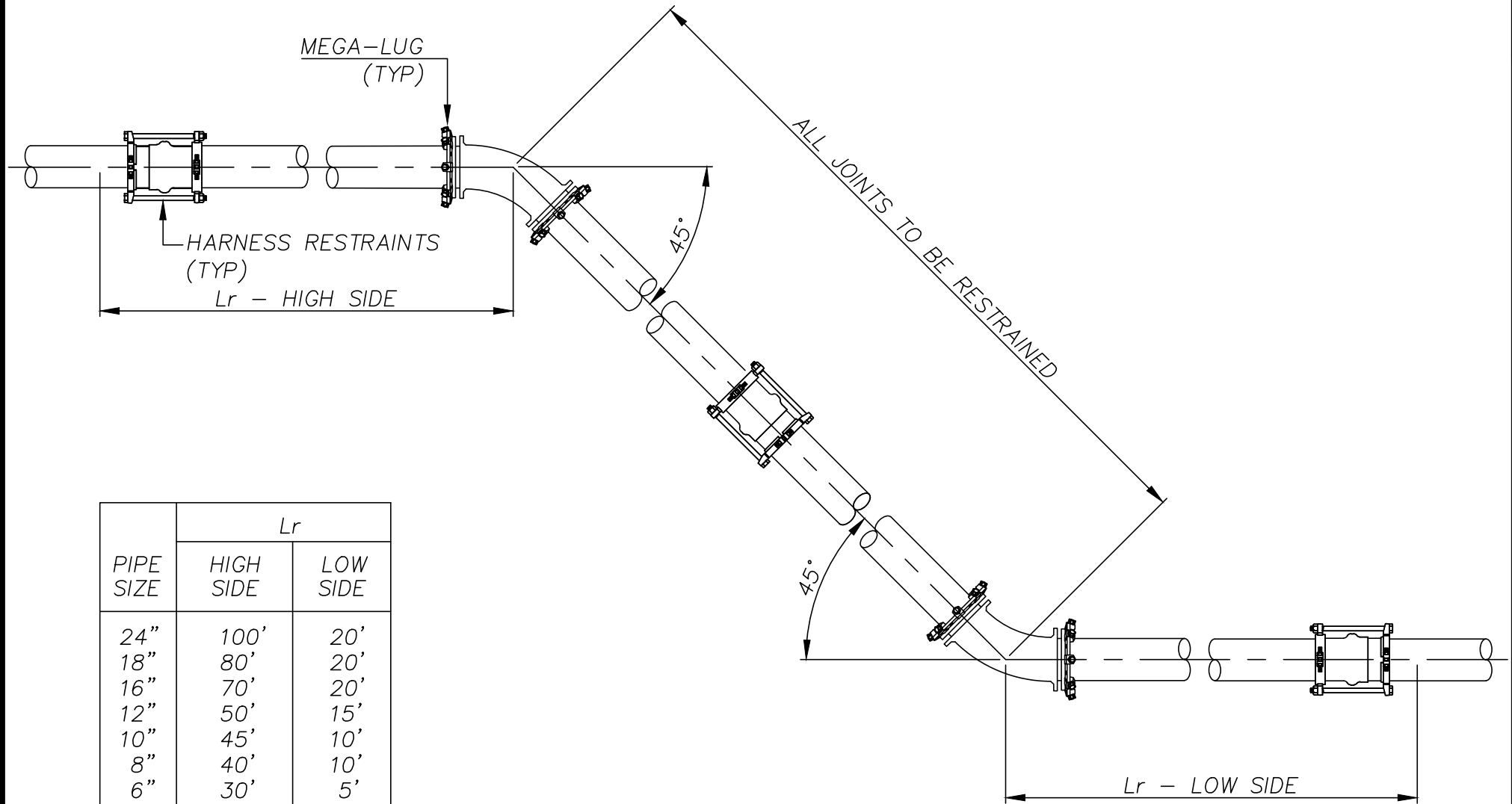
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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NOT TO SCALE



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PVC JOINT RESTRAINT VERTICAL OFFSET

JWSC 2-7

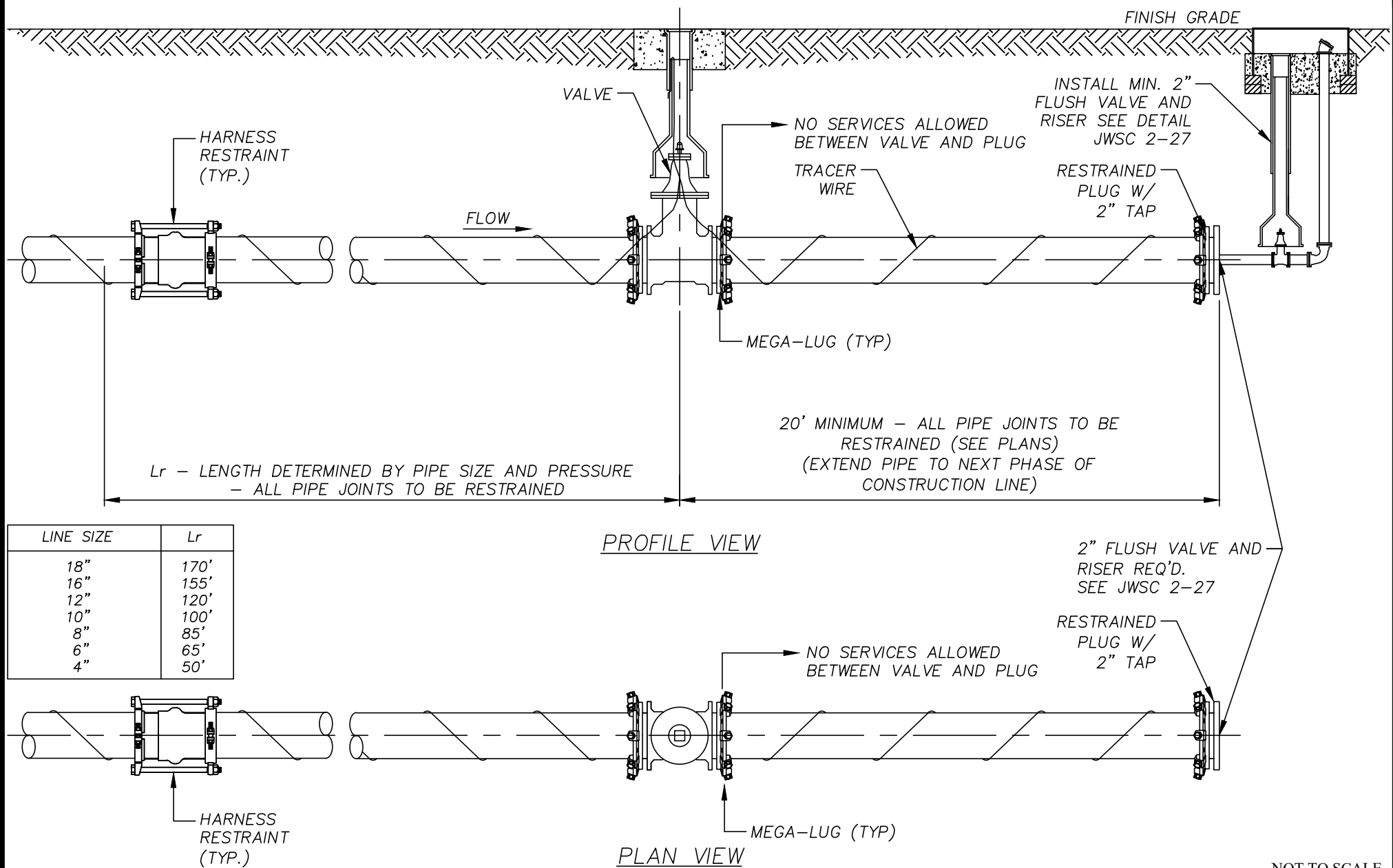
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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PVC JOINT RESTRAINT TEMPORARY DEAD END

JWSC 2-8

DESIGNED: BGJWSC

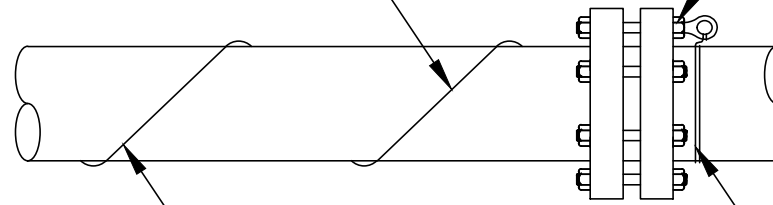
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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MINIMUM OF 1 TURN AROUND
EACH LENGTH OF PIPE
(SEE NOTE 4)

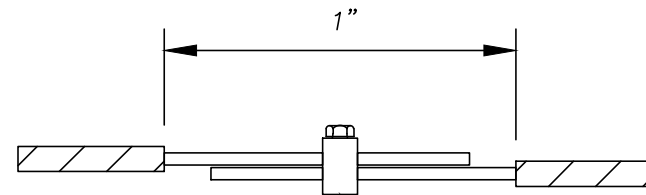


EYE BOLT FOR WIRE TRACING
CONNECTION. 2 TURNS
THROUGH EYE BOLT REQ'D.
(2 NUTS REQUIRED)

DUCTILE IRON
FITTING, VALVE OR
PIPE BELL

#10 SOLID
COPPER WIRE

2 TURNS AROUND
FITTING OR VALVE



COPPER WIRE
CLAMP

NOTE:

1. USE #10 AWG SOLID PLASTIC COATED COPPER WIRE.
2. STRIP 2" OF COATING & WRAP WIRE 2 TURNS UNDER "T" HEAD BOLT ON TOP OF DUCTILE IRON FITTING (VALVE). NEXT WRAP WIRE 2 TURNS AROUND BELL OF FITTING (VALVE) AND WIND WITH A CONTINUOUS LENGTH OF AT LEAST 4 WRAPS PER LENGTH OF PVC PIPE TO THE NEXT DUCTILE IRON FITTING. TERMINATE AT FITTING IN A SIMILAR MANNER AS NOTED ABOVE.
3. ALL SPLICES MUST BE MADE BY USING COPPER WIRE SPLICE, "U" BOLT ASSEMBLIES AND THEN WRAPPING WITH ELECTRICAL TAPE.
4. IN LIEU OF "WRAPPING" TRACER WIRE AROUND PVC PIPE, WIRE MAY BE STRUNG ALONG THE TOP OF PIPE, PROVIDED IT IS TAPED TO THE PIPE EVERY 5'-0" TO INSURE ACCURATE POSITION MAINTAINED DURING BACKFILL.

NOT TO SCALE



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**TRACER WIRE
INSTALLATION**

JWSC 2-9

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

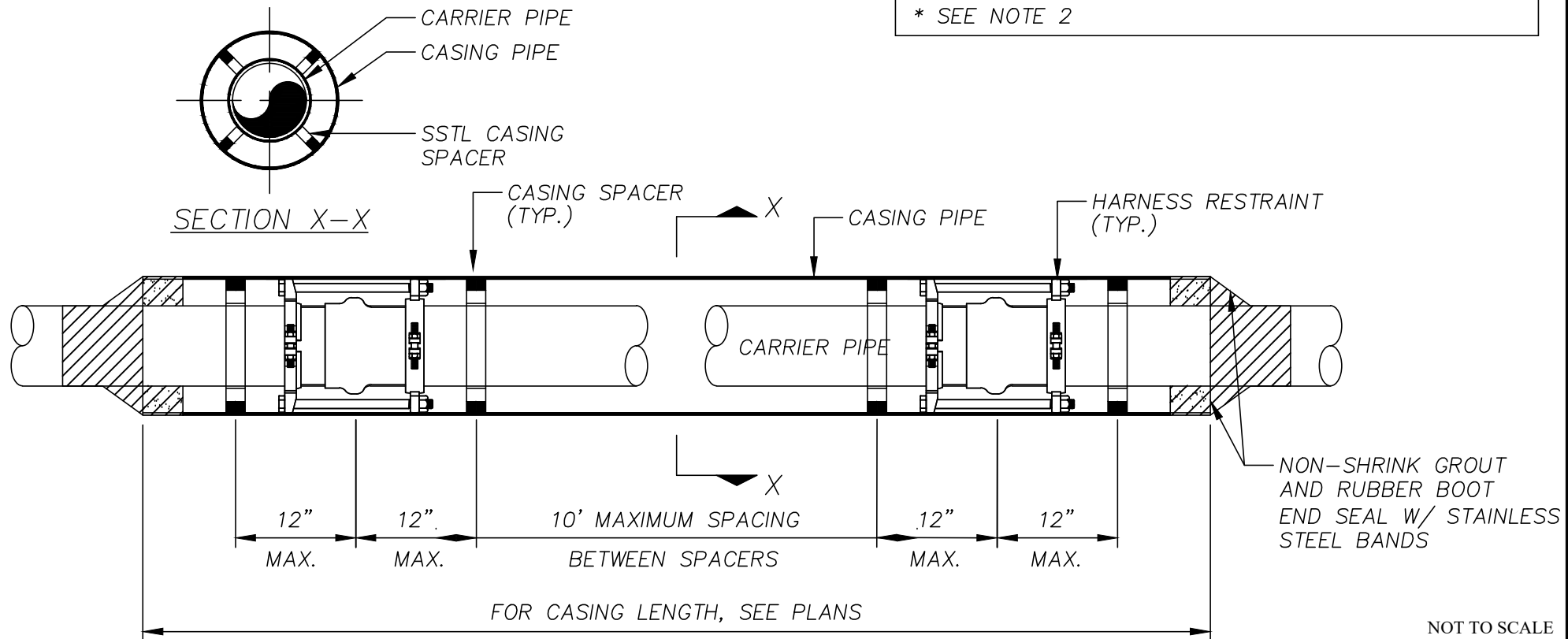
SCALE: NTS

BY	REVISION	DATE
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GENERAL NOTES:

1. DETAIL SHOWN IS FOR CITY AND COUNTY ROADWAY CROSSINGS.
2. INSTALLATIONS UNDER STATE ROADS AND RAILROADS MAY HAVE REQUIREMENTS DIFFERENT FROM THOSE SHOWN. SUCH INSTALLATIONS SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION OR THE PARTICULAR RAILROAD INVOLVED.
3. SEE BGJWSC STANDARD CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CASING SIZE SHOWN ARE FOR DUCTILE IRON PIPE. FOR PVC PIPE AND HARNESS RESTRAINTS, ADJUST CASING PIPE DIAMETER ACCORDINGLY.
5. STEEL CASING SHALL EXTEND 3' BEYOND TOE OF SLOPE OR CENTER OF DITCH, 3' BEYOND BACK OF CURB, 10' BEYOND TOP OF CREEK BANK OR 10' BEYOND EDGE OF PAV'T. WHERE APPLICABLE.
6. ALL JOINTS WITHIN CASING TO BE RESTRAINED.

CARRIER PIPE DIAMETER (INCHES)	CASING PIPE DIAMETER (INCHES)	WALL THICKNESS* (INCHES)
6	12	0.375
8	16	0.375
10	16	0.375
12	20	0.375
14	22	0.375
16	24	0.375
18	30	0.375
20	30	0.375
24	36	0.375
30	42	0.375
* SEE NOTE 2		



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**STEEL CASING AND
CARRIER PIPE
INSTALLATION**

JWSC 2-10

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

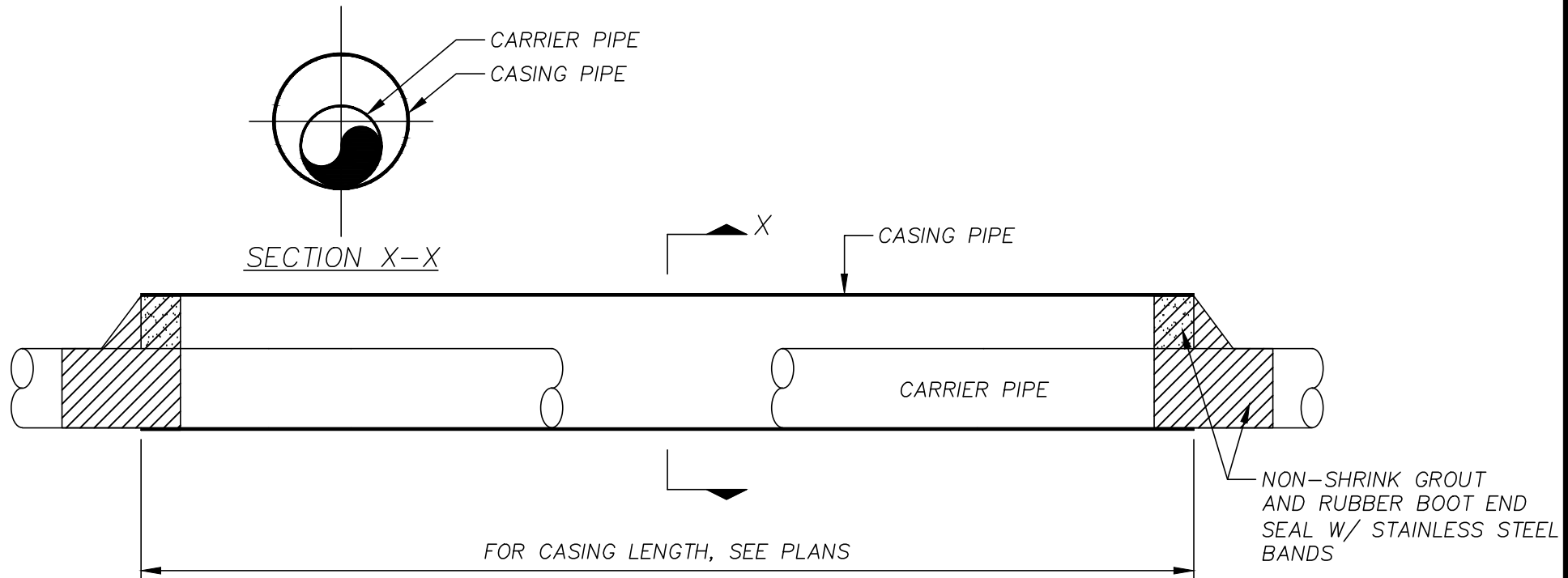
BY	REVISION	DATE
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GENERAL NOTES:

1. DETAIL SHOWN IS FOR STATE ROADWAY CROSSINGS.
2. INSTALLATIONS UNDER CITY OF BRUNSWICK AND GLYNN COUNTY ROADS MAY HAVE REQUIREMENTS DIFFERENT FROM THOSE SHOWN. INSTALLATIONS SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION.
3. SEE BGJWSC STANDARD CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CASING SIZES SHOWN ARE FOR C-900 FPVC. CARRIER PIPE SIZES ARE FOR C-900 FPVC DR18 UNLESS OTHERWISE NOTED. CASINGS AND CARRIER PIPE SHALL BE BLUE OR GREEN IN COLOR.

CARRIER PIPE DIAMETER (INCHES)	CARRIER PIPE OD DIAMETER (INCHES)	CASING PIPE DIAMETER (INCHES)	CASING PIPE ID DIAMETER (INCHES)	WALL THICKNESS* (INCHES)
6	6.90	10	9.79	0.620
8	9.05	12	11.65	0.720
10	11.10	14	13.50	0.850
12	13.20	16	15.35	0.970
14	15.30	18	17.20	1.080
16	17.40	24	22.76	1.430
18	19.50	24	22.76	1.430
20	21.60	30*	28.77	1.520
24	25.80	30*	28.77	1.520
30*	32.00	36*	34.43	1.820

* DR 21



NOT TO SCALE



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FPVC CASING AND C905 CARRIER PIPE INSTALLATION

JWSC 2-10A

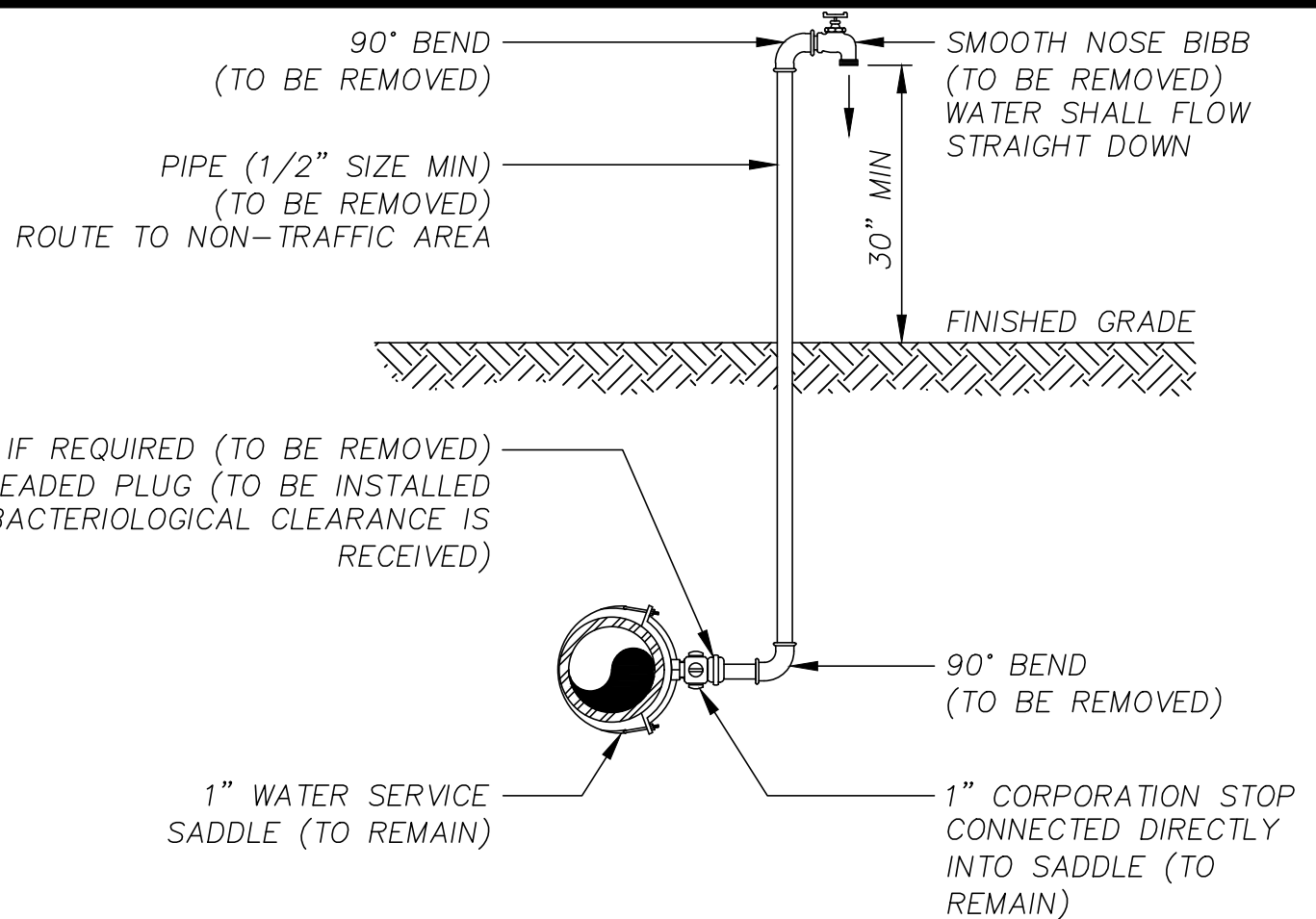
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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NOTE:

1. LOCATION OF SAMPLE POINT BIBB SHALL BE ROUTED TO NON-TRAFFIC AREAS, IF REQUIRED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS, AS NOTED, AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH 40).
4. THE CONTRACTOR SHALL ATTACH A "DO NOT DRINK" SIGN TO THE SAMPLE TAP. THE SIGN SHALL REMAIN ATTACHED TO THE SAMPLE TAP UNTIL ALL TESTS ARE COMPLIANT.

NOT TO SCALE



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**TEMPORARY SAMPLE
TAP MAIN EXTENSION
ONLY**

JWSC 2-11

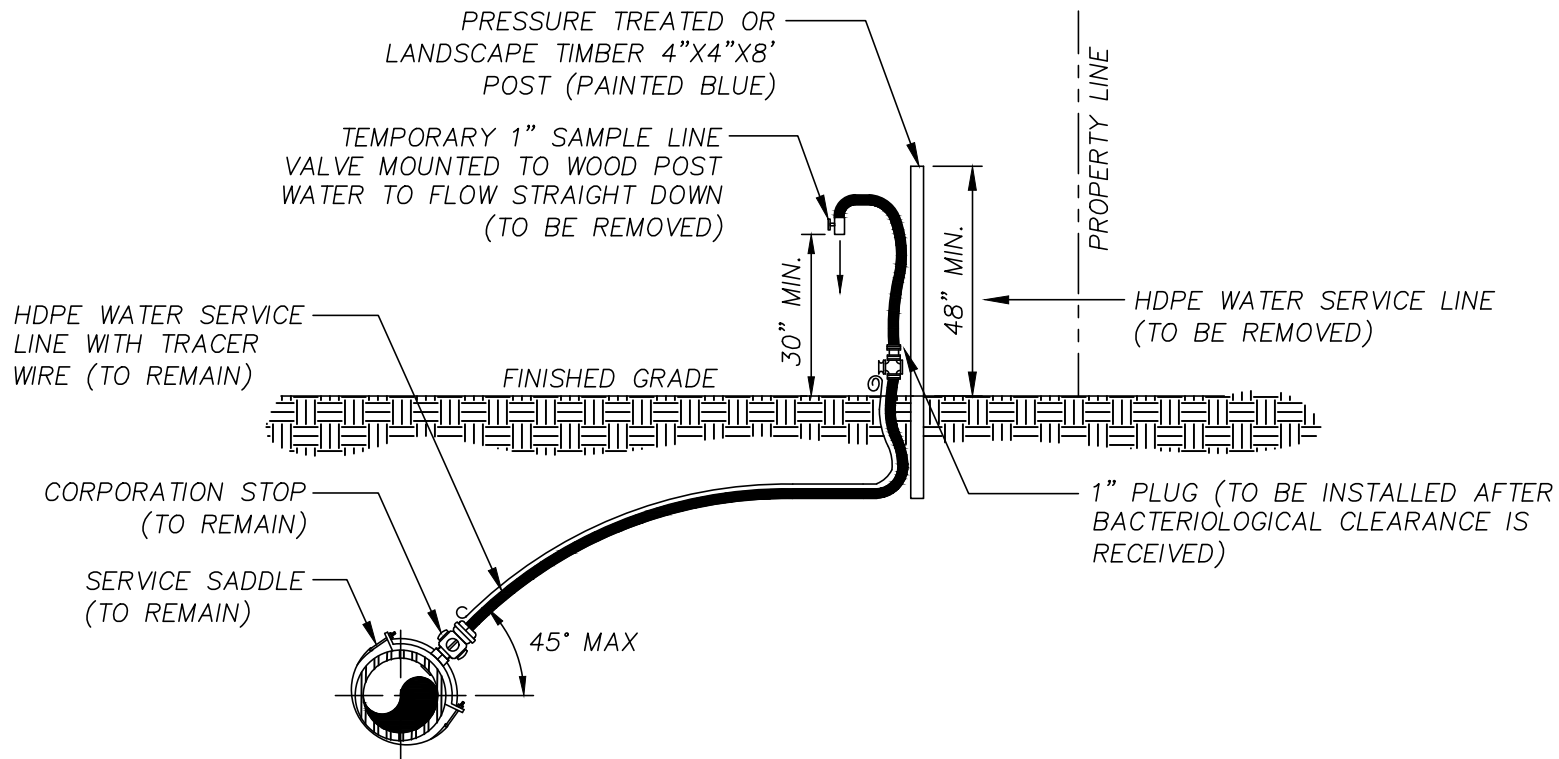
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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NOTE:

1. WATER SERVICE CONNECTION MAY BE USED FOR TEMPORARY SAMPLE TAP IF LOCATED NEAR REQUIRED SAMPLING POINT.
2. WATER SERVICE TO BE INSTALLED PER "WATER SERVICE DETAIL"
3. LOCATION OF SAMPLE POINT BIBB SHALL BE ROUTED TO NON-TRAFFIC AREAS IF REQUIRED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS, AS NOTED, AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.

NOT TO SCALE



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TYPICAL WATER SERVICE/TEMPORARY SAMPLE TAP

JWSC 2-12

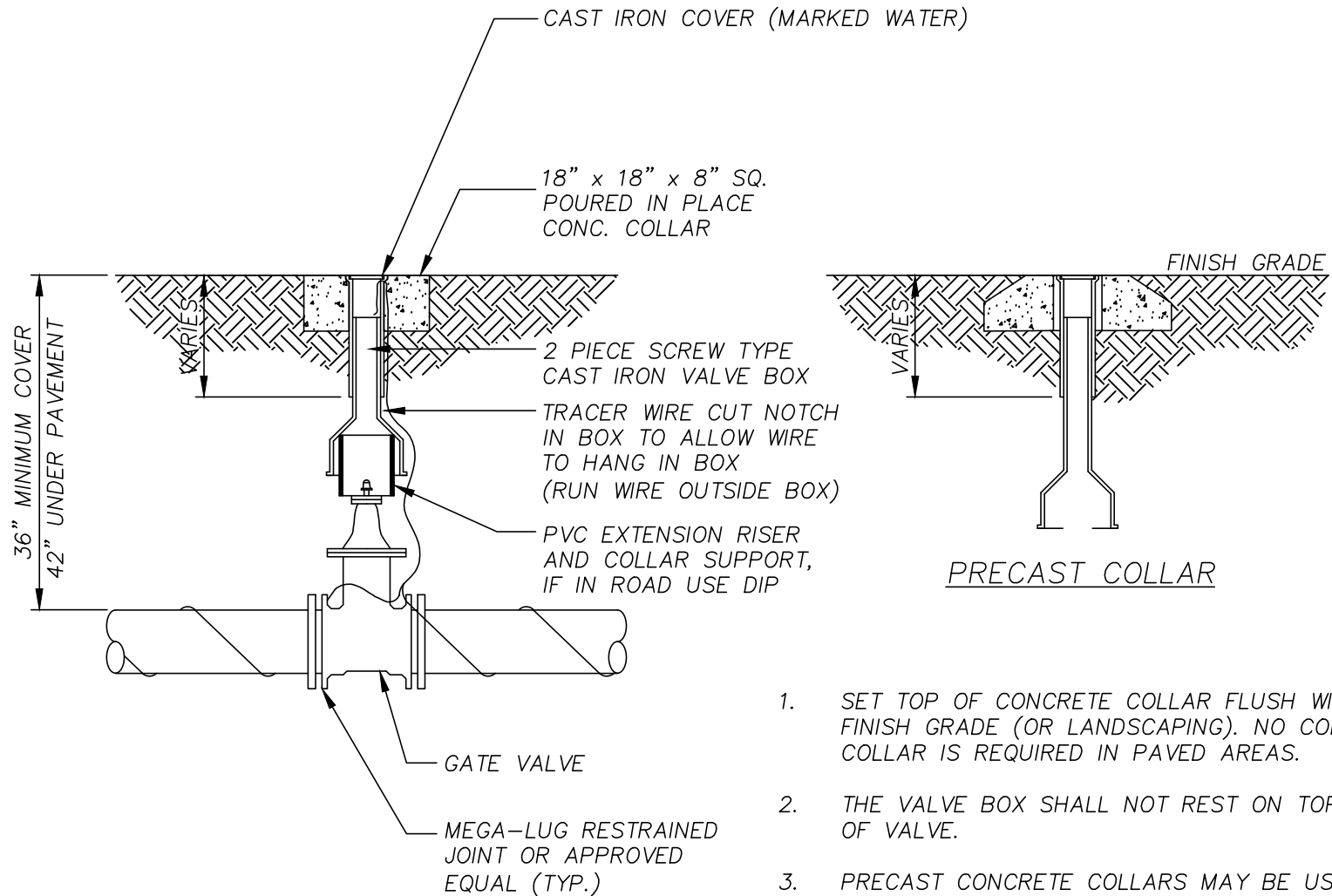
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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1. SET TOP OF CONCRETE COLLAR FLUSH WITH FINISH GRADE (OR LANDSCAPING). NO CONCRETE COLLAR IS REQUIRED IN PAVED AREAS.
2. THE VALVE BOX SHALL NOT REST ON TOP OF VALVE.
3. PRECAST CONCRETE COLLARS MAY BE USED UPON APPROVAL OF THE BGJWSC REPRESENTATIVE. SEE ALTERNATE DETAIL ABOVE.

NOT TO SCALE



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WATER VALVE DETAIL

JWSC 2-13

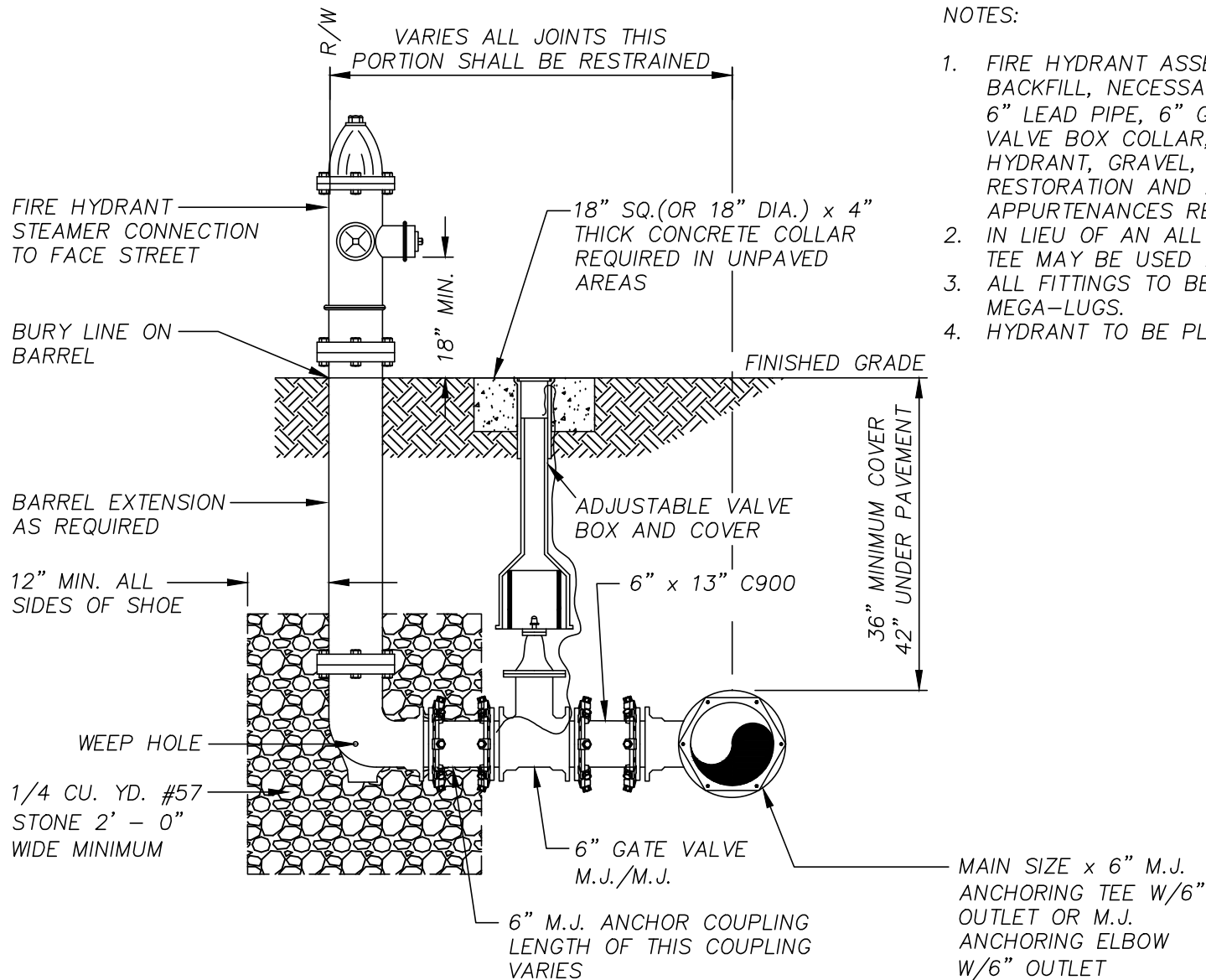
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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NOTES:

1. FIRE HYDRANT ASSEMBLIES INCLUDE EXCAVATION, BACKFILL, NECESSARY SHORING AND SHEETING, 6" LEAD PIPE, 6" GATE VALVE AND VALVE BOX, VALVE BOX COLLAR, SUPPORTING BRICKS, FIRE HYDRANT, GRAVEL, COMPLETE SURFACE RESTORATION AND ALL OTHER WORK AND APPURTENANCES REQUIRED.
2. IN LIEU OF AN ALL MJ TEE, A HYDRANT ANCHOR TEE MAY BE USED AND SPOOL PIECE ELIMINATED.
3. ALL FITTINGS TO BE RESTRAINED WITH MEGA-LUGS.
4. HYDRANT TO BE PLUMB AND LEVEL.

NOT TO SCALE



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FIRE HYDRANT DETAIL

JWSC 2-14

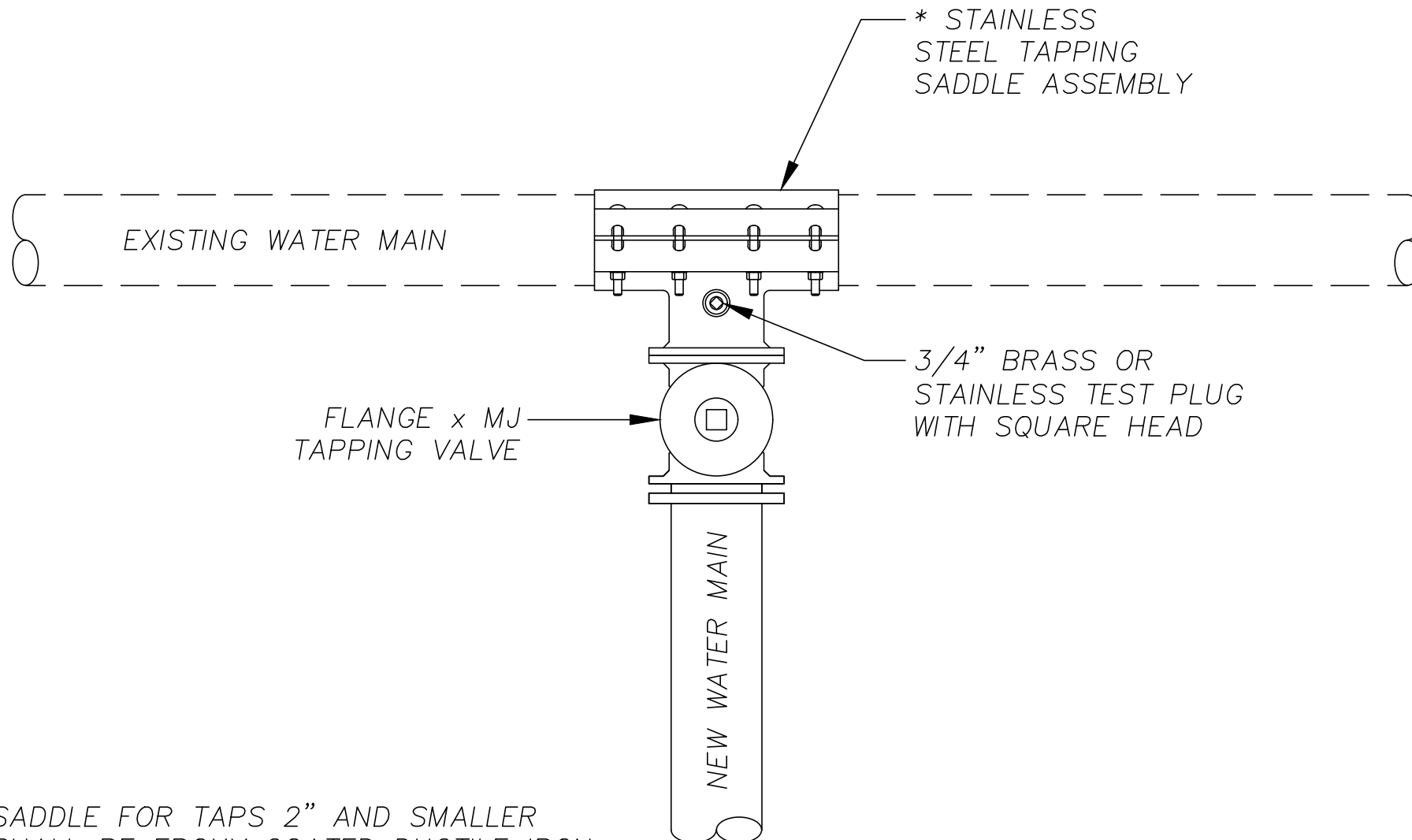
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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* SADDLE FOR TAPS 2" AND SMALLER SHALL BE EPOXY COATED DUCTILE IRON BODY, DOUBLE STRAPPED TYPE WITH NPT SERVICE OUTLET. RUBBER GASKET RING, TWO ALLOY STEEL STRAPS, AWWA C800 FEMALE IRON PIPE TAP.

NOT TO SCALE



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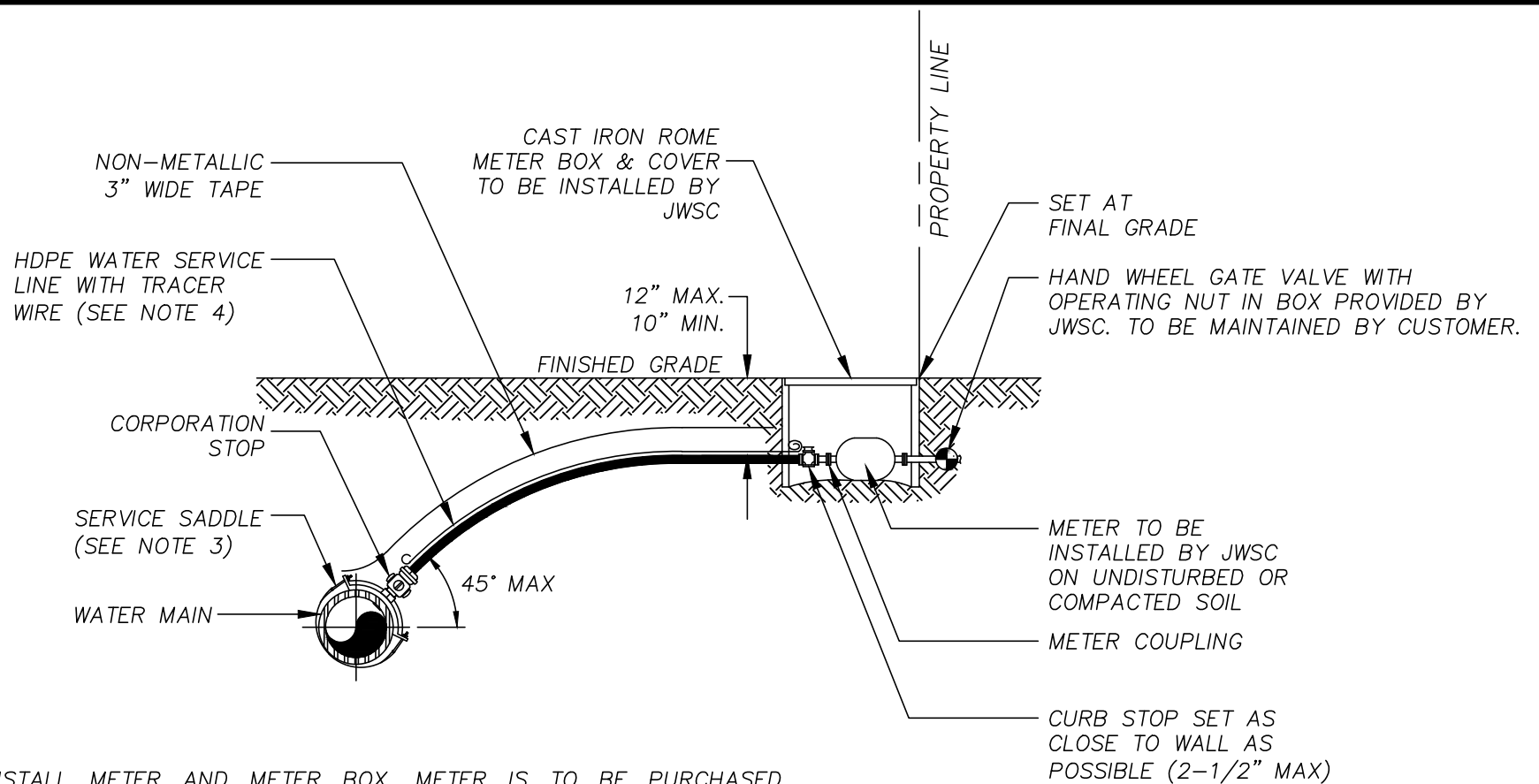
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CONNECTION TO EXISTING WATER MAIN 4" AND LARGER

JWSC 2-15

DESIGNED: BGJWSC	DRAWN: HPATEL
DATE: 05/26/2022	SCALE: NTS

BY	REVISION	DATE
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NOTES:

1. JWSC TO INSTALL METER AND METER BOX. METER IS TO BE PURCHASED THROUGH JWSC.
2. ALL FITTINGS IN LATERAL SHALL BE COMPRESSION TYPE.
3. A MINIMUM OF TWO FULL THREADS ARE REQUIRED FOR TAPPING SLEEVE TO GO INTO THE PIPE WALL.
4. INSULATED SINGLE STRAND #10 AWG COPPER WIRE SHALL BE STRAPPED TO THE PIPE AND ATTACHED TO THE CORPORATION, CURB STOPS AND CONNECT TRACER WIRE TO MAIN.
5. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (NO METER IS INSTALLED).
6. WATER SERVICES SHALL INCLUDE A "W" STAMPED INTO THE CURB.
7. HDPE WATER SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN UNLESS APPROVED OTHERWISE BY BGJWSC.
8. METER SIZE WILL BE BASED ON END USERS REQUIREMENTS.
9. POTABLE TAP TO BE SEPERATE FROM IRRIGATION AND FIRE SPRINKLER LINES.

NOT TO SCALE



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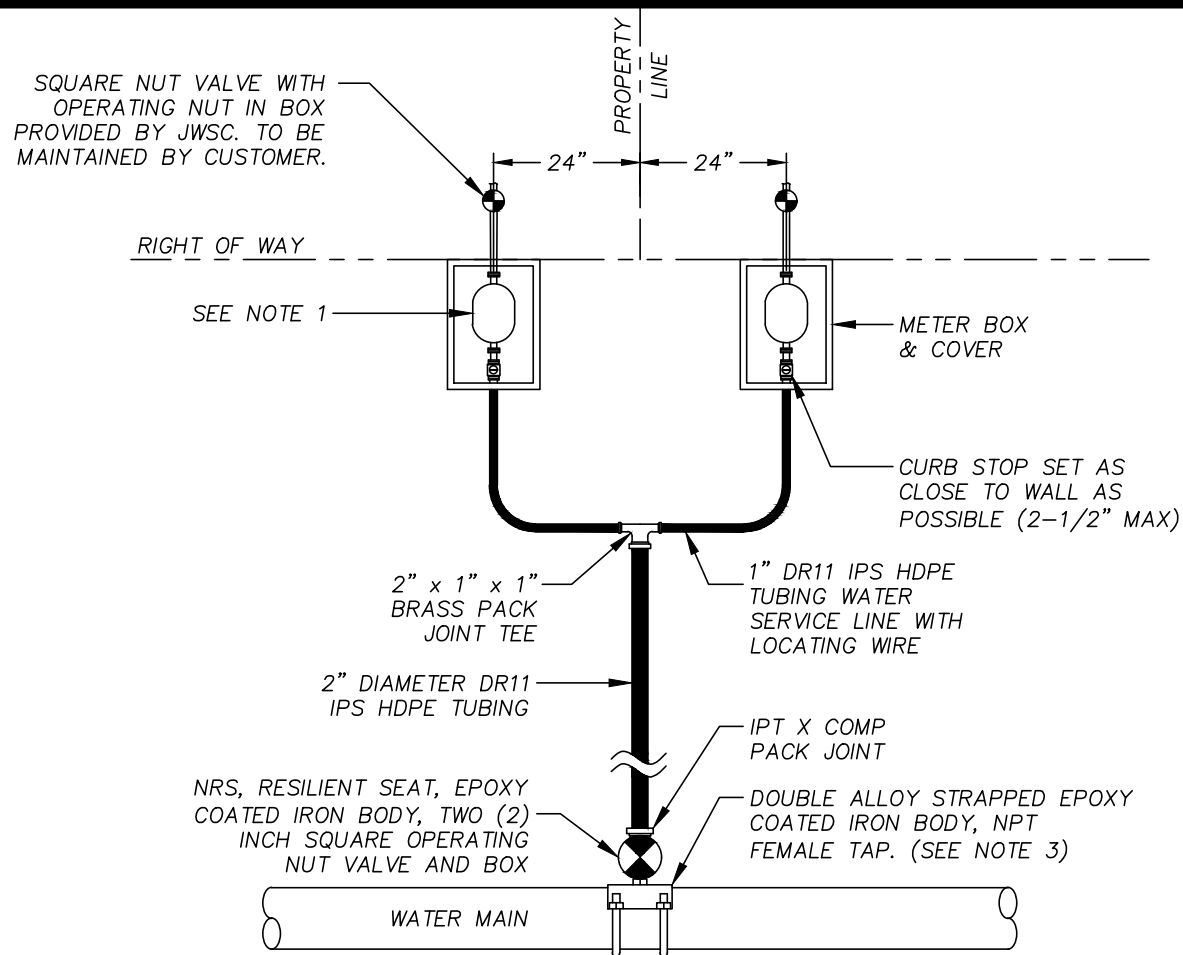
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**SINGLE WATER OR
IRRIGATION SERVICE
(2" AND SMALLER)**

JWSC 2-16

DESIGNED: BGJWSC DRAWN: HPATEL
DATE: 05/26/2022 SCALE: NTS

BY	REVISION	DATE
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NOTE:

1. METER BOX AND METER TO BE FURNISHED AND INSTALLED BY JWSC.
2. ALL FITTINGS IN LATERAL SHALL BE COMPRESSION TYPE.
3. A MINIMUM OF TWO FULL THREADS ARE REQUIRED FOR THE BRASS NIPPLE TO GO INTO THE TAPPING SADDLE.
4. INSULATED SINGLE STAND #10 AWG COPPER WIRE SHALL BE STRAPPED TO THE PIPE AND ATTACHED TO THE CORPORATION AND CURB STOPS.
5. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (NO METER IS INSTALLED).
6. WATER SERVICES SHALL INCLUDE A "W" STAMPED INTO THE CURB.
7. WATER SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN UNLESS APPROVED OTHERWISE BY BGJWSC.

NOT TO SCALE



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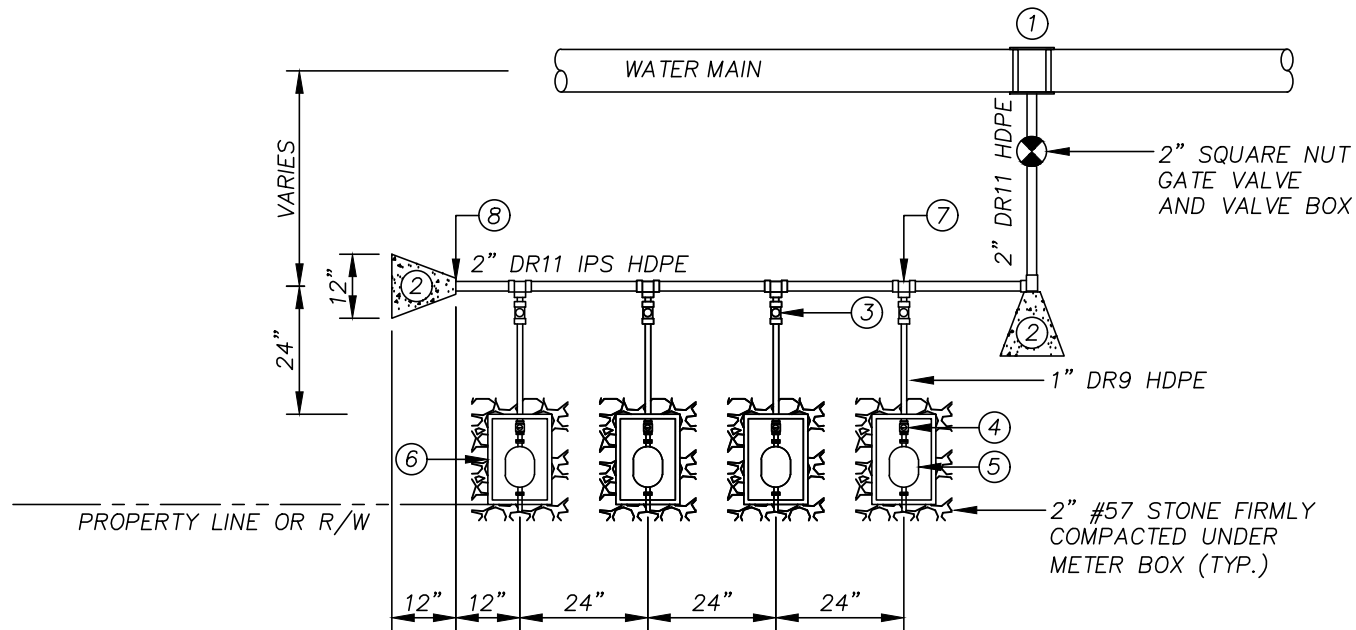
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DOUBLE WATER SERVICE DETAIL

JWSC 2-17

DESIGNED: BGJWSC	DRAWN: HPATEL
DATE: 05/26/2022	SCALE: NTS

BY	REVISION	DATE
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BILL OF MATERIALS

1	MAIN X 2" DOUBLE STRAPPED BRASS TAPPING SADDLE
2	CONCRETE BLOCKING
3	1" CORPORATION STOP (TYP.)
4	CURB STOP SET AS CLOSE TO WALL AS POSSIBLE (TYP.) (SEE NOTE 2)
5	JWSC TO SET METER
6	RHINO MB17 METER BOX AND COVER (TYP.)
7	2" x 1" SADDLE (TYP.)
8	2" DIAMETER PLUG

NOTES:

1. A MINIMUM OF TWO FULL THREADS ARE REQUIRED FOR TAPPING SLEEVE INTO PIPE WALL
2. CURB STOP TO BE INSTALLED BY CONTRACTOR.
3. ALL FITTINGS IN LATERAL TO BE COMPRESSION TYPE.
4. INSULATED SINGLE STRAND COPPER WIRE SHALL BE STRAPPED TO PIPE AND ATTACHED TO THE CORPORATION AND CURB STOPS.
5. INSTALL HDPE PLUG IN ALL CURB STOPS IF WATER SERVICE IS NOT IN USE (NO METER INSTALLED).
6. MAXIMUM OF 5 METERS PER MANIFOLD.

NOT TO SCALE



BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

1703 Gloucester Street
Brunswick, Georgia 31520

Website: www.bgjwsc.org

Phone: (912) 261-7110
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MULTIPLE WATER SERVICE MANIFOLD

JWSC 2-18

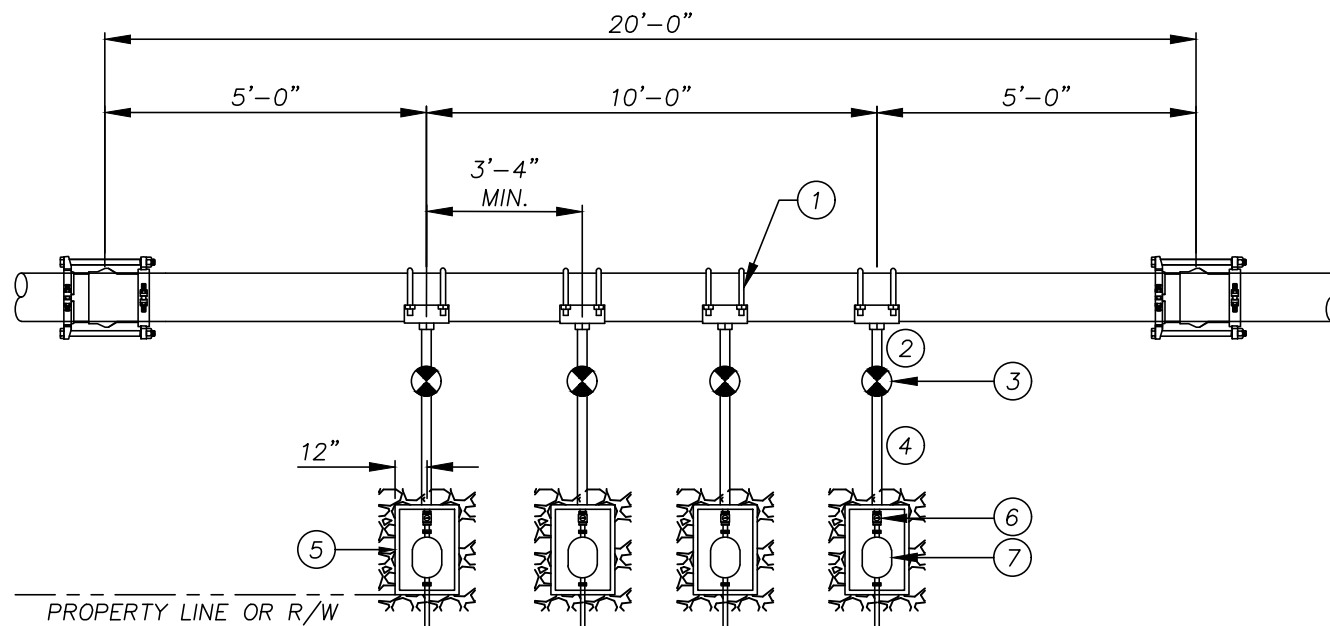
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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BILL OF MATERIALS

1	MAIN x 2" DOUBLE STRAPPED BRASS TAPPING SADDLE
2	2" BRASS NIPPLE
3	2" NON RISING STEM SQ. NUT VALVE AND VALVE BOX
4	2" DR9 HDPE TUBING
5	24" x 36" JUMBO METER BOX BY JWSC
6	2" COMPRESSION x FIP BRASS CURB STOP
7	2" METER BY JWSC

NOTES:

1. A MINIMUM OF TWO FULL THREADS ARE REQUIRED FOR TAPPING SLEEVE INTO PIPE WALL.
2. CURB STOP TO BE INSTALLED BY CONTRACTOR.
3. ALL FITTINGS IN LATERAL TO BE COMPRESSION TYPE.
4. INSULATED SINGLE STRAND COPPER WIRE SHALL BE STRAPPED TO PIPE AND ATTACHED TO THE CORPORATION AND CURB STOPS FOR WIRE TRACING.
5. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS NOT IN USE (NO METER INSTALLED)

NOT TO SCALE



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MULTIPLE WATER SERVICE MANIFOLD

JWSC 2-18A

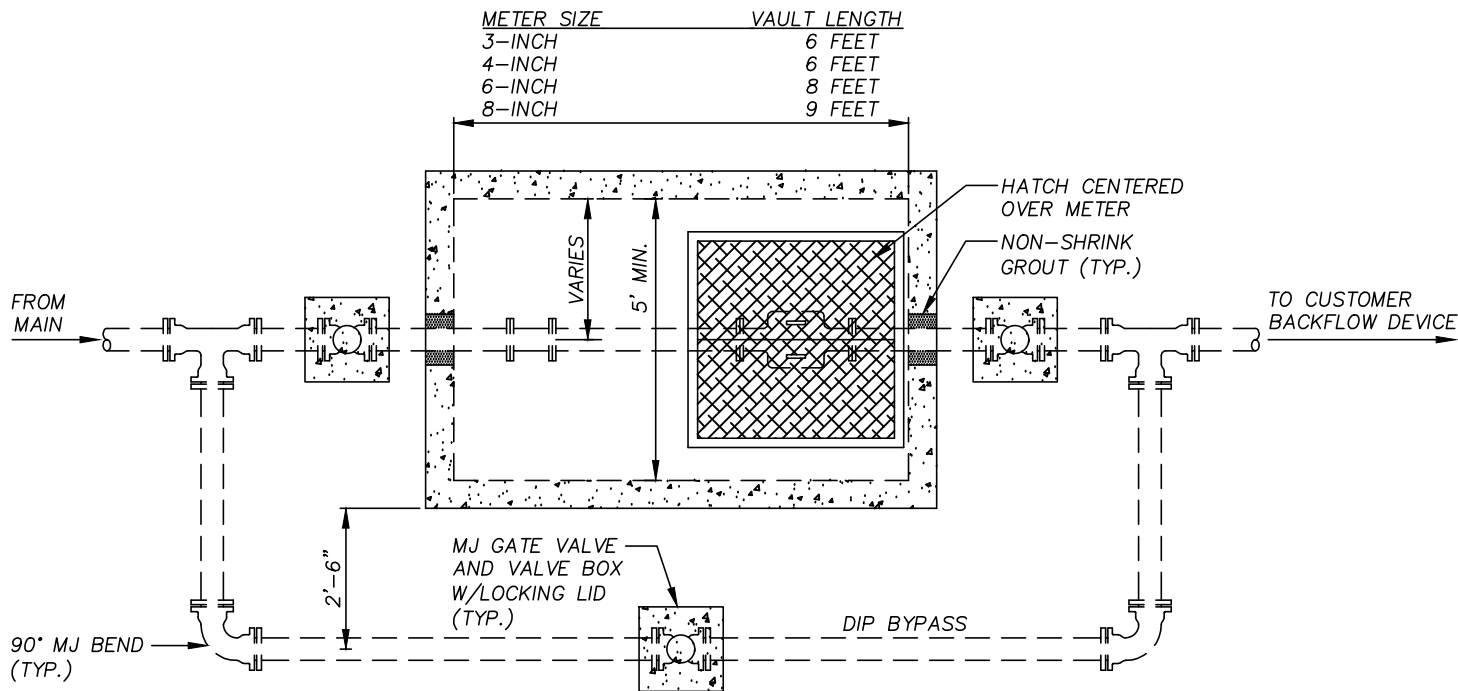
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DRAWN: HPATEL

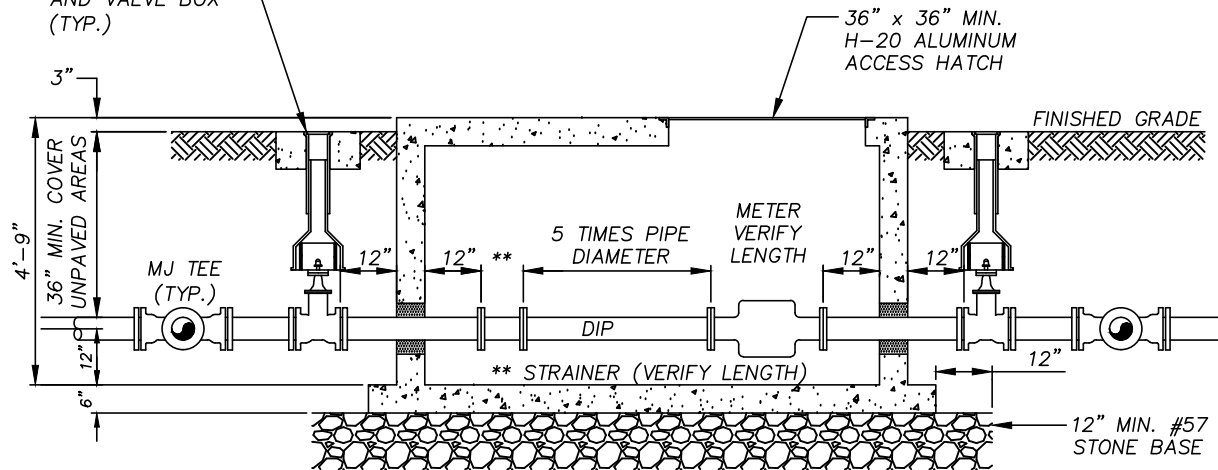
DATE: 05/26/2022

SCALE: NTS

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TOP PLAN



SECTION

GENERAL NOTES:

1. WATER METER TO BE PURCHASED FROM THE BRUNSWICK-GLYNN COUNTY JOINT WATER AND SEWER COMMISSION (JWSC). THE JWSC WILL COORDINATE WITH THE UTILITY CONTRACTOR AND WILL INSTALL THE METER. THE OWNER WILL PAY ALL COSTS FOR THE PURCHASE OF THE METER FROM JWSC AS WELL AS ALL ASSOCIATED CONNECTION AND ACCOUNT SET-UP FEES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PIPE, VALVES, FITTINGS, ACCESSORIES, PRECAST VALVE VAULT AND ALL OTHER WORK AND APPURTENANCES REQUIRED.
3. PRECAST CONCRETE VALVE VAULT TO BE IN ACCORDANCE WITH ASTM C-478. A FACTORY INSTALLED 10MM BITUMASTIC COATING IS REQUIRED.
4. ALL INTERIOR FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.
5. TRANSMITTER FOR THE WATER METER SHALL BE LOCATED AS DIRECTED BY THE JWSC INSPECTOR.
6. ALUMINUM ACCESS COVER SHALL BE MODEL W13636 AS MANUFACTURED BY HALLIDAY PRODUCTS INC. OR APPROVED EQUAL. BEFORE THE VAULT IS DELIVERED TO THE SITE, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FROM THE VAULT MANUFACTURER FOR REVIEW.
7. THE Y STRAINER SHALL BE MANUFACTURED BY KECKLEY OR APPROVED EQUAL.

NOT TO SCALE



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WATER METER
INSTALLATION DETAIL
(3-INCH AND LARGER)

JWSC 2-19

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

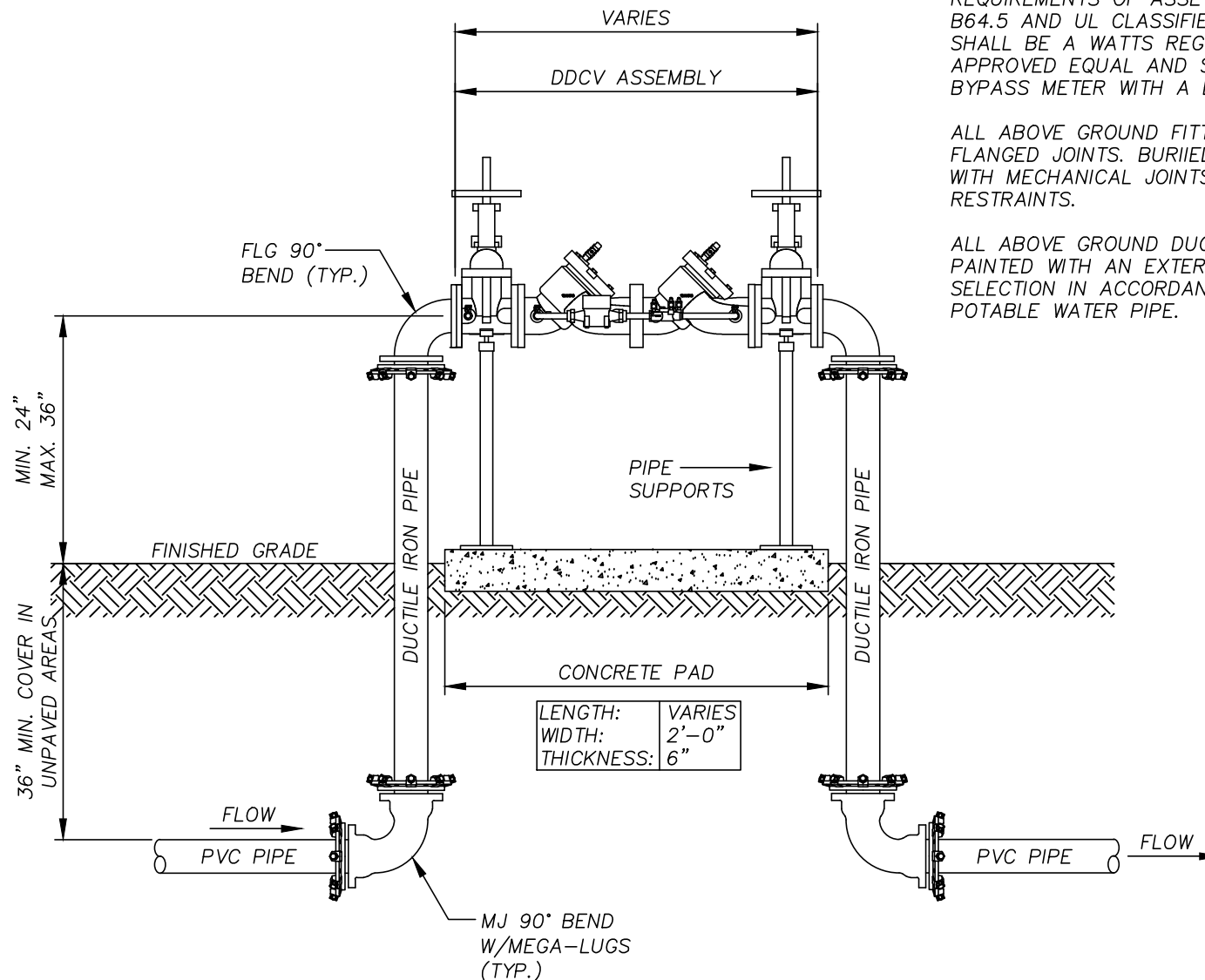
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GENERAL NOTES:

DOUBLE DETECTOR CHECK ASSEMBLY SHALL INCLUDE TIGHT CLOSING RESILIENT SEATED SHUTOFF VALVES AND TEST COCKS. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE NO. 1015; AWWA C510-92; CSA B64.5 AND UL CLASSIFIED FILE NO. EX3185. ASSEMBLY SHALL BE A WATTS REGULATOR COMPANY SERIES 709 OR APPROVED EQUAL AND SHALL BE EQUIPPED WITH A BYPASS METER WITH A BFP.

ALL ABOVE GROUND FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.

ALL ABOVE GROUND DUCTILE IRON PIPING SHALL BE PAINTED WITH AN EXTERIOR GRADE ENAMEL PAINT. COLOR SELECTION IN ACCORDANCE WITH AWWA STANDARDS FOR POTABLE WATER PIPE.



NOT TO SCALE



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**DOUBLE DETECTOR
CHECK VALVE (DDCV)
ASSEMBLY (2" THRU 10")**

JWSC 2-20

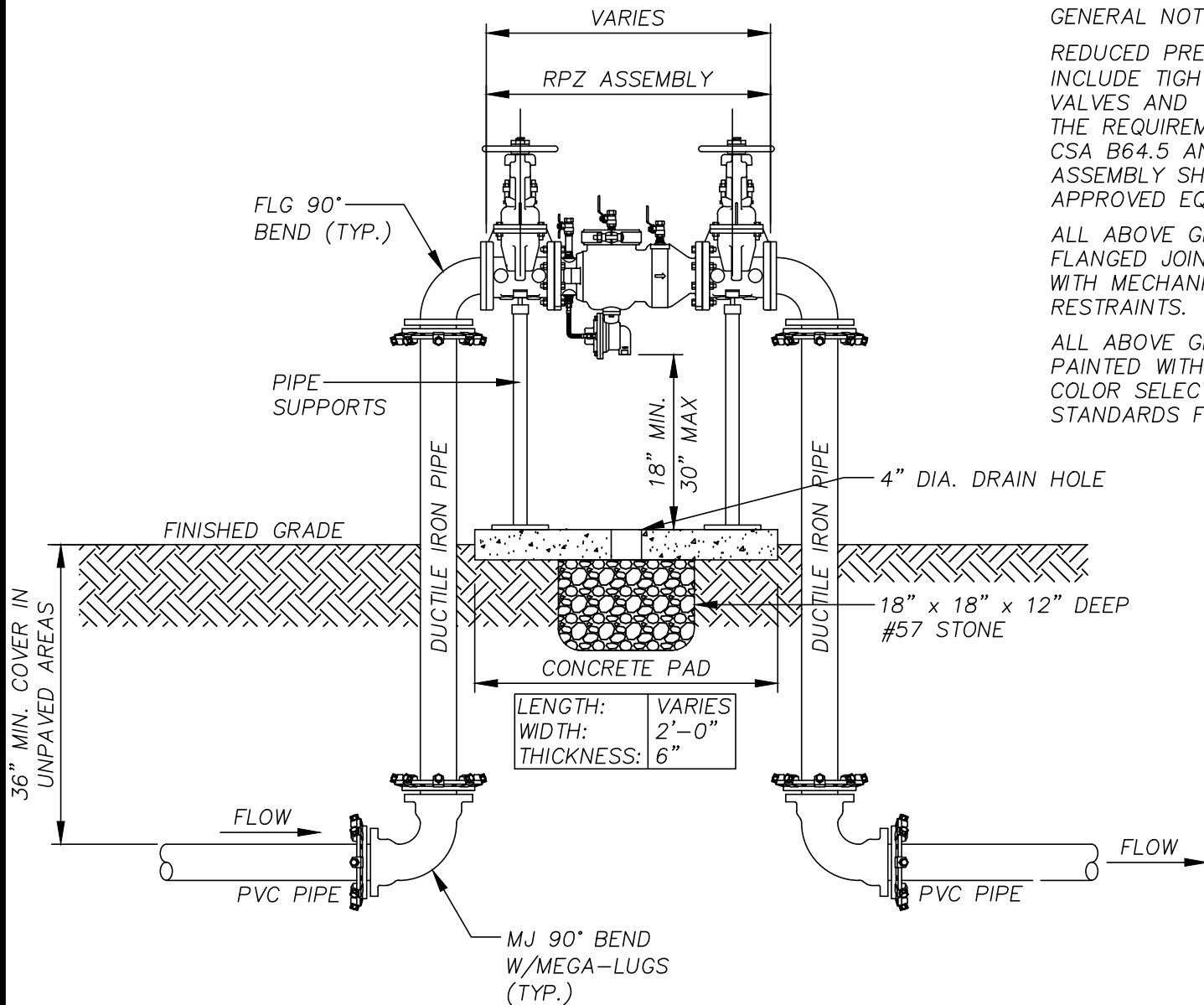
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

REDUCED PRESSURE ZONE (RPZ) ASSEMBLY SHALL INCLUDE TIGHT CLOSING RESILIENT SEATED SHUTOFF VALVES AND TEST COCKS. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE NO. 1015; AWWA C510-92; CSA B64.5 AND UL CLASSIFIED FILE NO. EX3185. ASSEMBLY SHALL BE A ZURN-WILKINS MODEL 375 OR APPROVED EQUAL.

ALL ABOVE GROUND FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.

ALL ABOVE GROUND DUCTILE IRON PIPING SHALL BE PAINTED WITH AN EXTERIOR GRADE ENAMEL PAINT. COLOR SELECTION IN ACCORDANCE WITH AWWA STANDARDS FOR POTABLE WATER PIPE.

NOT TO SCALE



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**REDUCED PRESSURE
ZONE (RPZ) ASSEMBLY
(3" TO 10")**

JWSC 2-21A

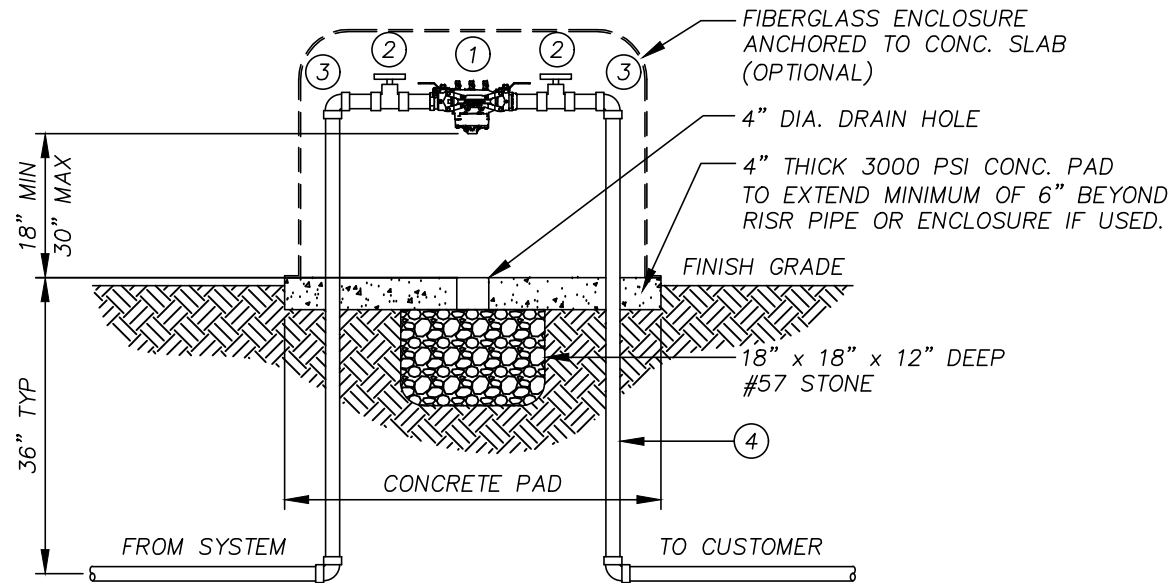
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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MATERIALS

QTY.	DESCRIPTION
1	RPZ ASSEMBLY (ZURN-WILKINS OR EQUAL)
2	FULL PORT BALL VALVE
3	90° ELBOW
4	BRASS, HARD COPPER OR SCH 80 PVC

PROVIDE ALL BRASS FITTINGS, NIPPLES, COUPLINGS, ETC. REQUIRED FOR THE COMPLETE INSTALLATION. FOR INSTALLATIONS LOCATED IN OR NEAR PARKING LOTS AND DRIVEWAYS, STEEL PIPE BOLLARDS ARE RECOMMENDED.

NOT TO SCALE



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REDUCED PRESSURE ZONE (RPZ) ASSEMBLY (2.5" & SMALLER)

JWSC 2-21B

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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ROAD REPAIR REQUIREMENTS:

1. JWSC MUST REVIEW ROAD CUT AND APPROVE FINAL DIMENSIONS OF AREA TO BE PAVED PRIOR TO FINAL PAVING. ALL ROAD CUTS MUST BE NEATLY SQUARE CUT AND PERPENDICULAR TO THE LINES AND GENERAL DIRECTION OF THE ROAD WAY AND A MINIMUM OF 12" BEYOND FINAL DISTURBED AREA. ENTIRE WIDTH OF LANE IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE LANE. ENTIRE WIDTH OF ROAD IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE ROAD. ROAD MUST BE REPAVED AS OUTLINED BELOW PER THE STANDARD JWSC ROAD REPAIR DETAIL WITHIN 30 DAYS AFTER ROAD IS CUT INCLUDING ANY APPLICABLE ROAD STRIPING. COMPACTION TEST IS REQUIRED TO ENSURE 100% COMPACTION OF BACKFILL AND BASE MATERIAL. COMPACTION TEST RESULTS MUST BE FORWARDED TO JWSC REFLECTING TWO RESULTS OF THE BACKFILL AND BASE MATERIAL.

2. CUTS EXCEEDING 150 FEET IN LENGTH, THE BASE MATERIAL SHALL BE BROUGHT FLUSH TO THE BOTTOM OF THE EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAW CUT TO A STRAIGHT EDGE AND THE ENTIRE WIDTH OF THE ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "E" ASPHALT TOPPING.

3. DEPENDING ON THE EXISTING ROAD CONDITION, TIE IN POINTS MAY REQUIRE ADDITIONAL MILLING AND BLENDING AS DETERMINED BY JWSC.

4. DEPENDING ON THE EXISTING ROAD CONDITION AND LOCATION OF THE ROAD CUT, FLOWABLE FILL MAY BE REQUIRED AS BACKFILL MATERIAL. TO BE DETERMINED BY JWSC.

5. ANY PAVEMENT REPLACEMENT WITHIN G-DOT, GLYNN COUNTY OR CITY OF BRUNSWICK RIGHTS-OF-WAY PLEASE REFER TO THEIR LATEST DETAIL STANDARDS AND SPECIFICATIONS.

NOTE:

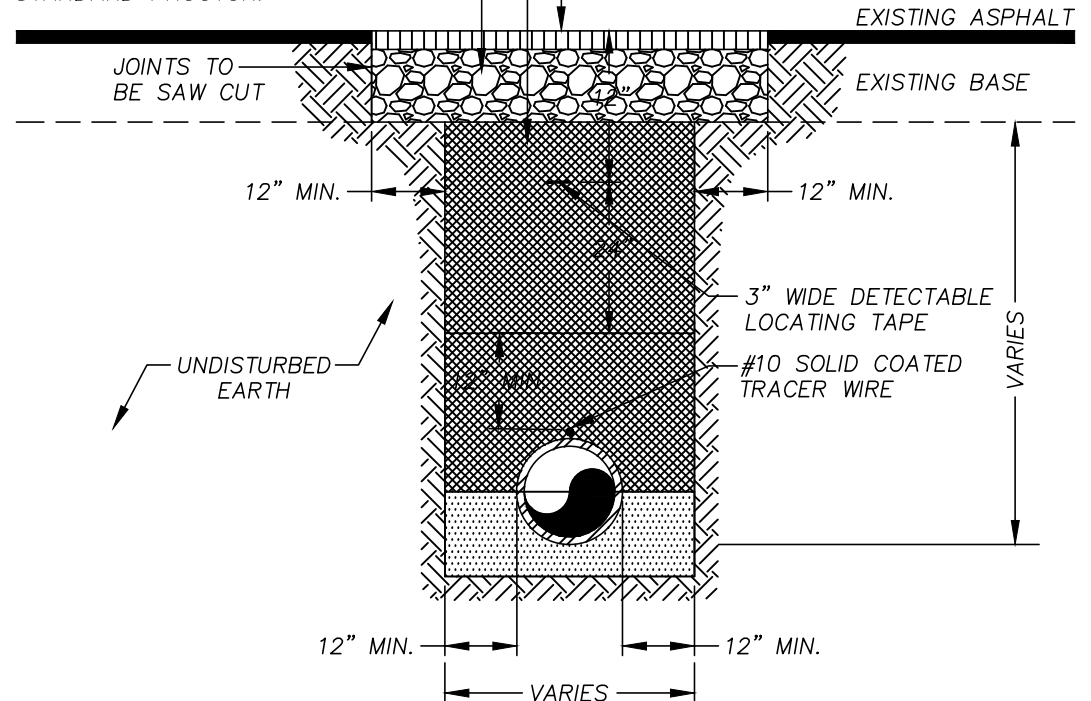
IF THE EXISTING ROAD SURFACE HAS IRREGULARITIES ON EITHER SIDE OF THE PROPOSED STREET CUT AN ASPHALT OVERLAY MAY BE REQUIRED TO MAKE A SMOOTH RIDING SURFACE. ALL IRREGULARITIES IN EXCESS OF 3/16 INCH IN TEN FEET SHALL BE CORRECTED.

SURFACE COURSE: ASPHALTIC CONCRETE "E" WITH TACK APPLIED WHERE APPLICABLE. DEPTH TO BE DETERMINED DURING PERMIT PROCESS.

BACKFILL: SHALL BE PLACED IN LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND COMPACTED TO 100% STANDARD PROCTOR.

BASE: 10 INCHES OF LIMEROCK OR GAB COMPACTED TO 100% STANDARD PROCTOR.

NOTE: CONCRETE MATERIALS SHALL NOT BE USED ON ASPHALT ROADS



NOT TO SCALE



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ASPHALT PAVEMENT REPLACEMENT

JWSC 2-22

DESIGNED: BGJWSC

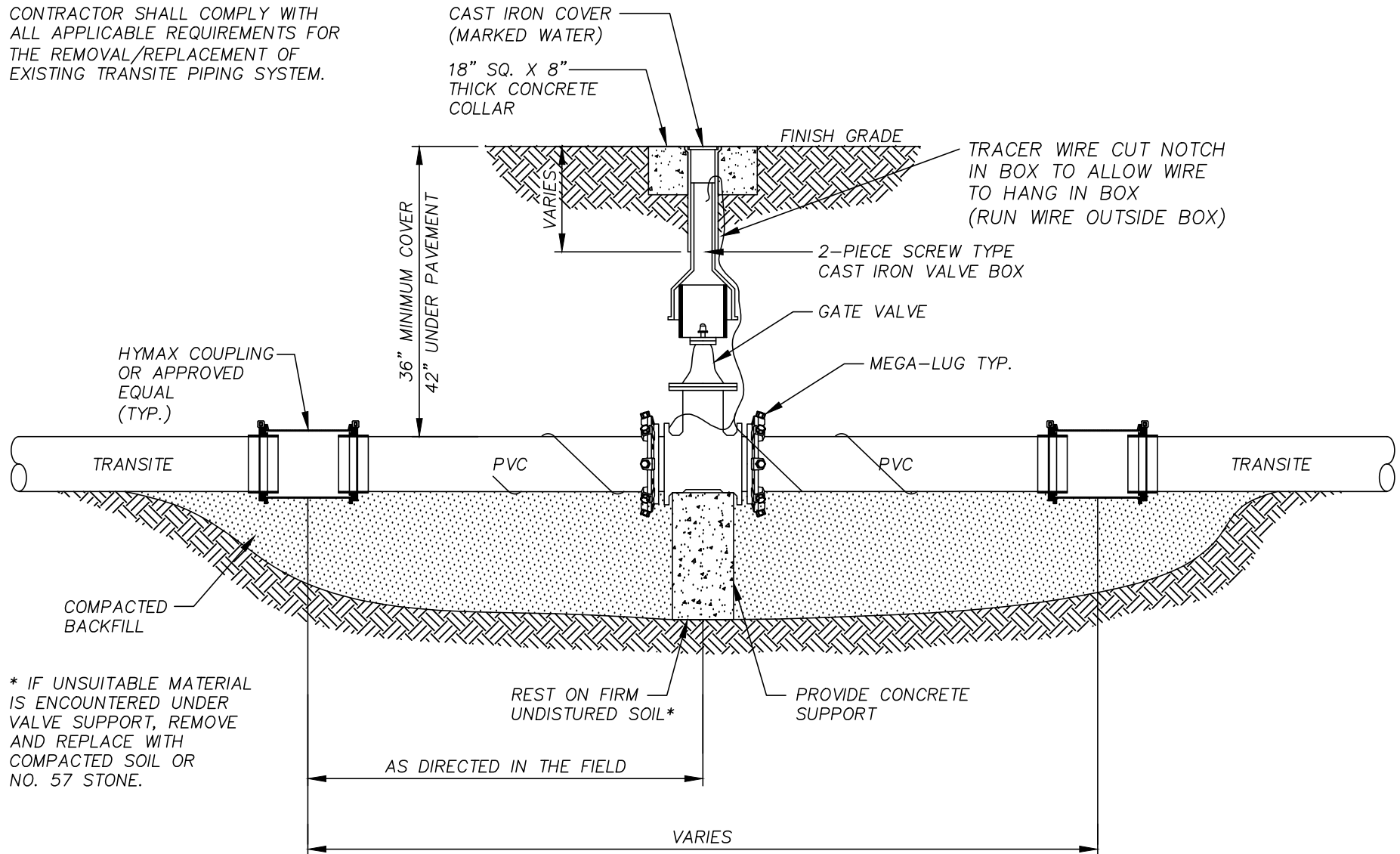
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SCALE: NTS

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CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS FOR THE REMOVAL/REPLACEMENT OF EXISTING TRANSITE PIPING SYSTEM.



NOT TO SCALE



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TRANSITE TO PVC WATER MAIN SPLICE

JWSC 2-24

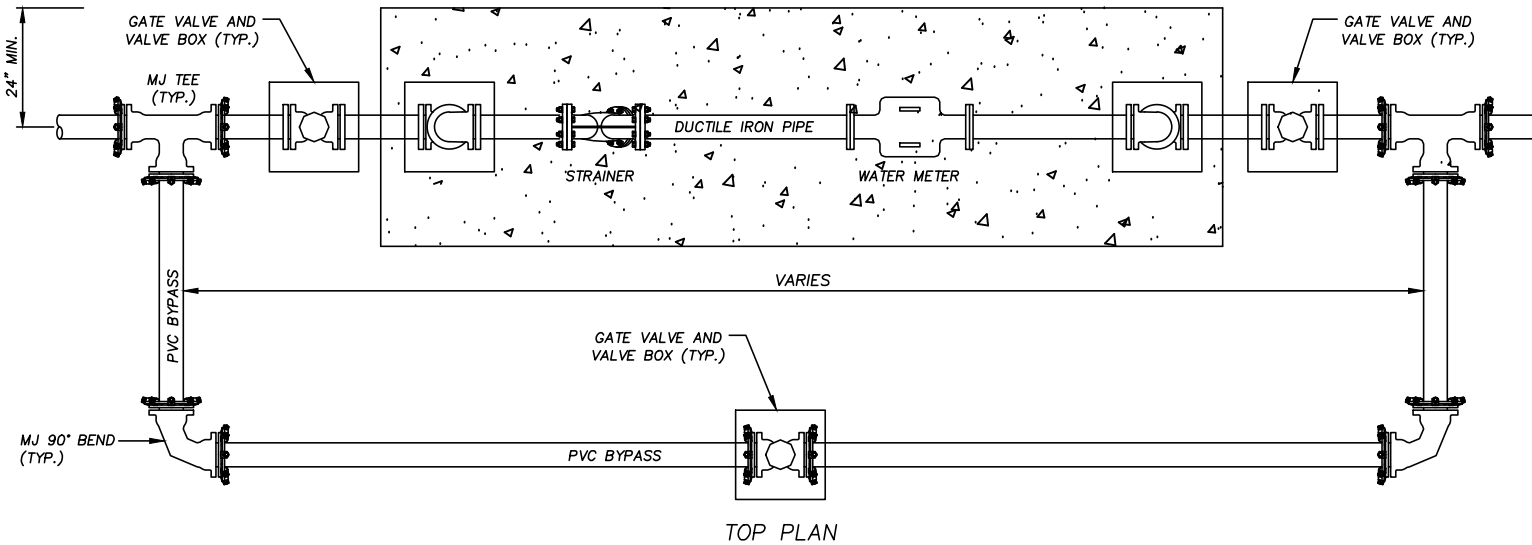
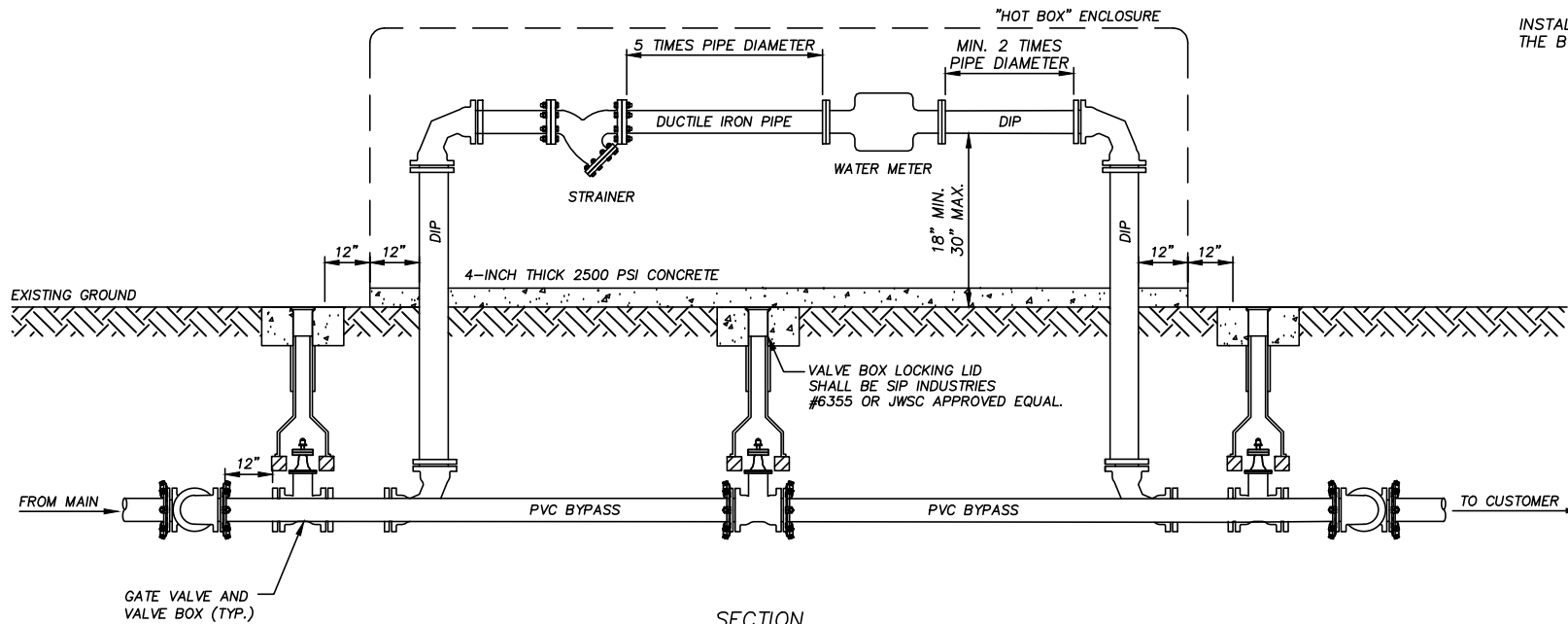
DESIGNED: BGJWSC

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DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

WATER METER TO BE PURCHASED FROM THE BRUNSWICK - GLYNN JOINT WATER & SEWER COMMISSION (JWSC). THE OWNER WILL PAY ALL COSTS FOR THE PURCHASE OF THE METER FROM JWSC AS WELL AS ALL ASSOCIATED CONNECTION AND ACCOUNT SET-UP FEES.

CONTRACTOR SHALL BE RESPONSIBLE FOR PICKUP AND DELIVERY OF THE METER FROM JWSC TO THE JOB SITE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR WATER METER INSTALLATION INCLUDING ALL NECESSARY PIPE, VALVES, FITTINGS, ACCESSORIES, AND ALL OTHER WORK AND APPURTENANCES REQUIRED.

ABOVE GROUND FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.

ALL DUCTILE IRON PIPE SHALL BE COATED WITH A BITUMINOUS COATING WITH A MINIMUM THICKNESS OF 2 MILS OR WRAPPED IN PLASTIC.

TRANSMITTER FOR THE WATER METER SHALL BE LOCATED AS DIRECTED BY THE JWSC INSPECTOR.

BYPASS VALVE WILL REMAIN IN THE CLOSED POSITION AT ALL TIMES.

METER TO BE HOUSED IN A "HOT BOX" ENCLOSURE OR JWSC APPROVED EQUAL. ANCHOR ENCLOSURE WITH RED HEAD INSERTS AND 3/8" BOLTS.

INSTALL A LOCK TYPE TWO-PIECE VALVE BOX ON THE BY-PASS VALVE PER JWSC SPECIFICATION.

NOT TO SCALE



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ABOVE GRADE WATER METER INSTALLATION DETAIL (3" & LARGER)

JWSC 2-25

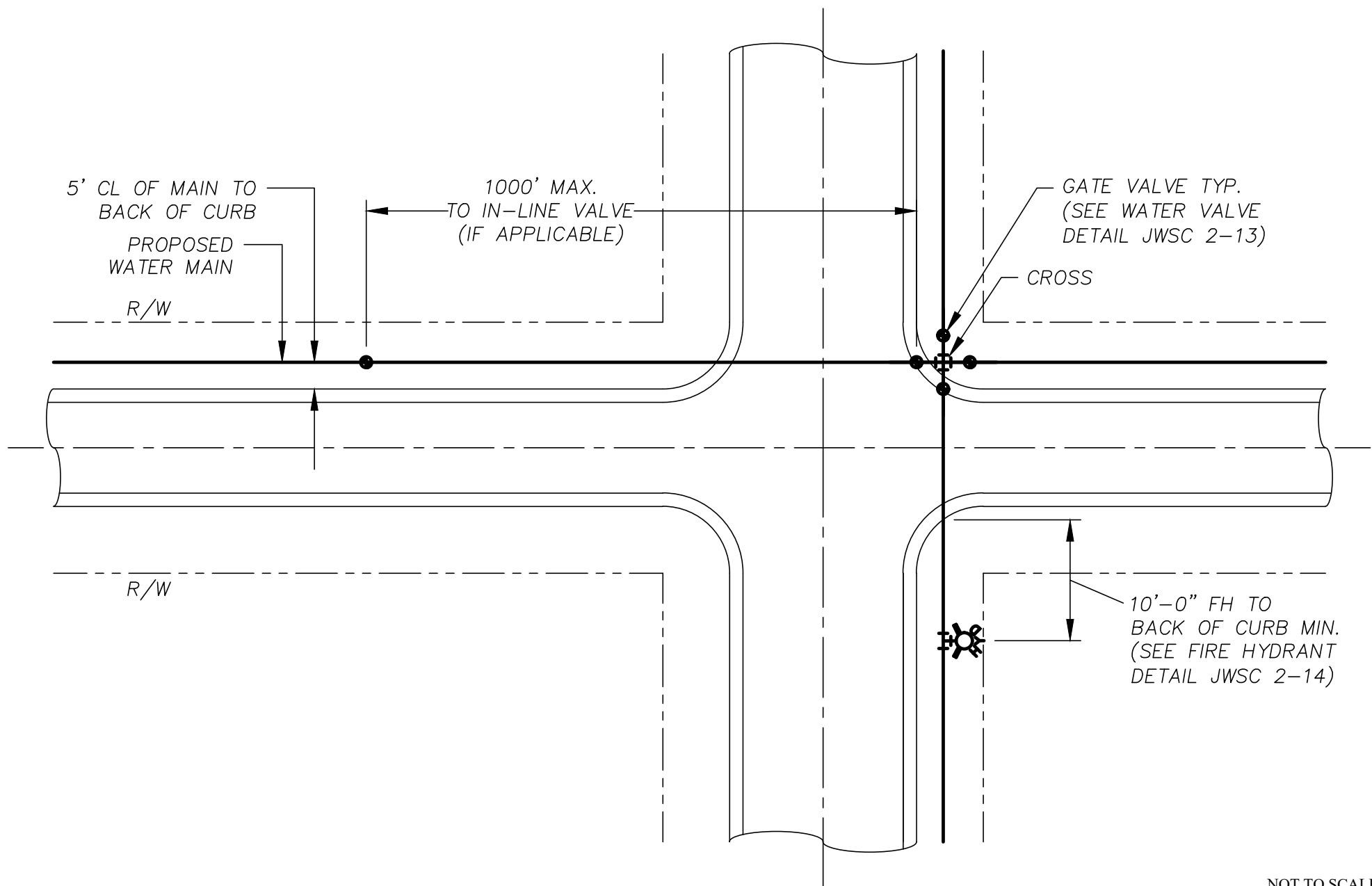
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WATER MAIN AT 4-WAY INTERSECTION

JWSC 2-26

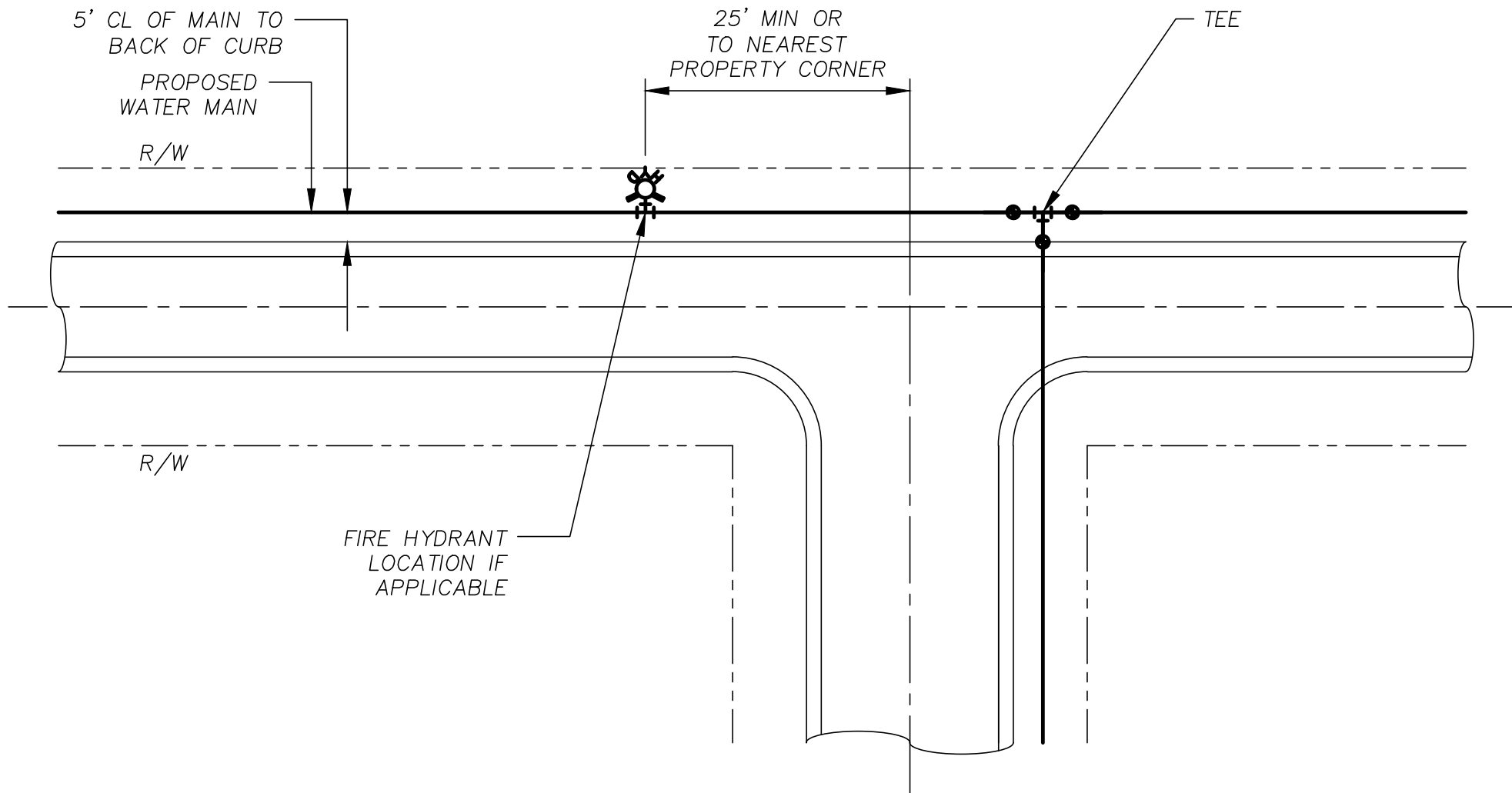
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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WATER MAIN AT TEE INTERSECTION

JWSC 2-26A

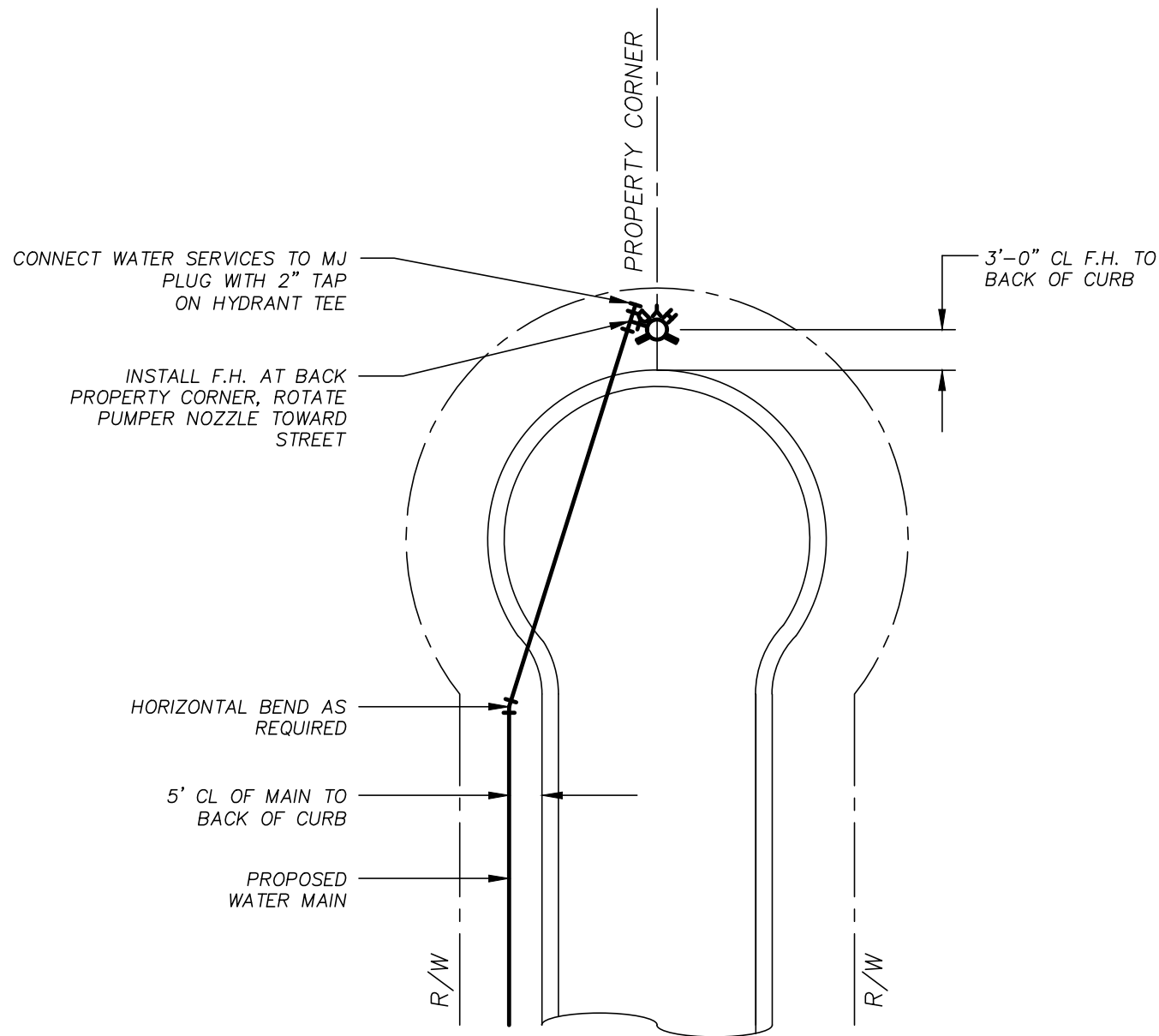
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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WATER MAIN AT CUL-DE-SAC

JWSC 2-26B

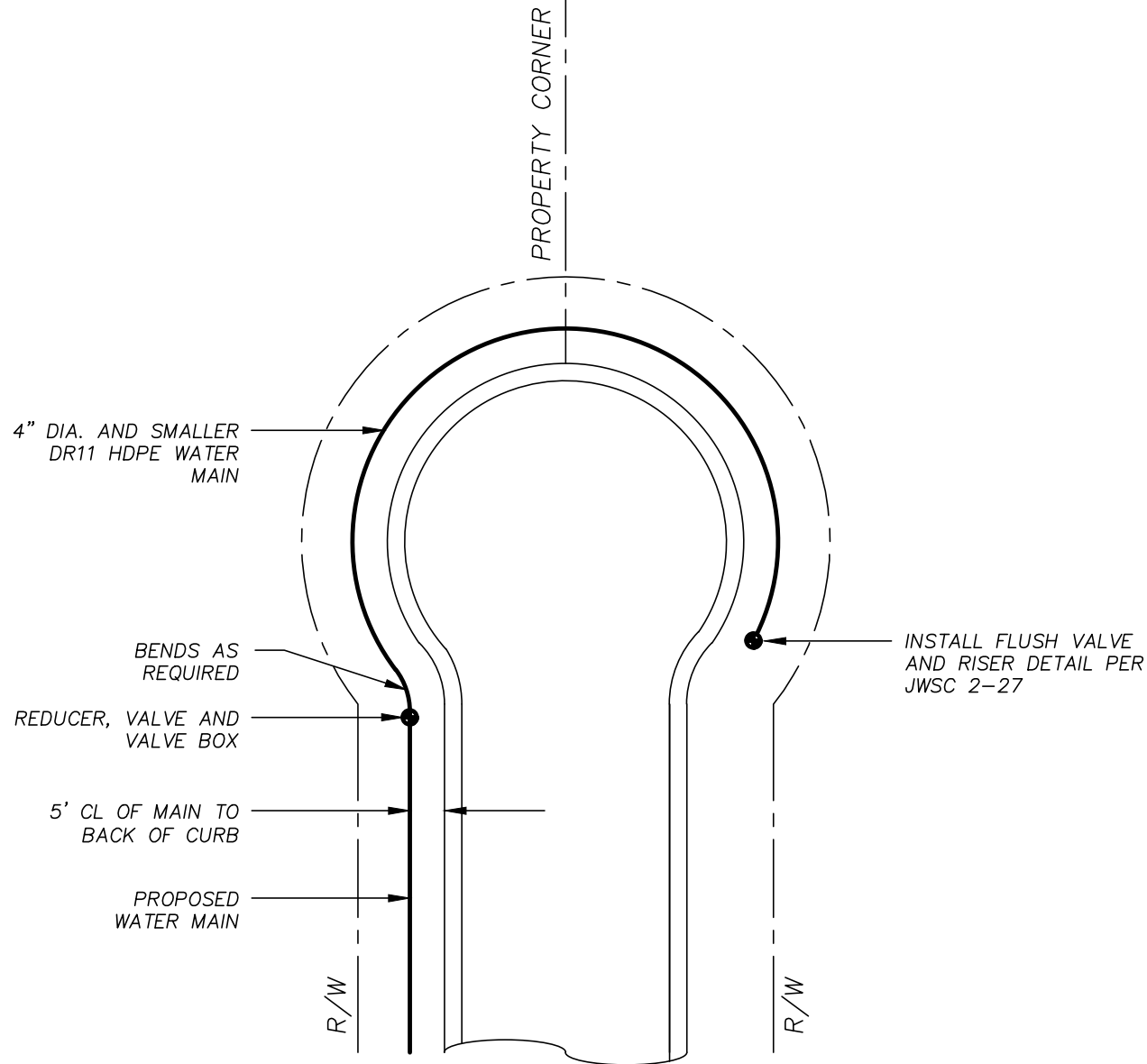
DESIGNED: BGJWSC

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DATE: 05/26/2022

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WATER MAIN AT CUL-DE-SAC 4" AND SMALLER

JWSC 2-26C

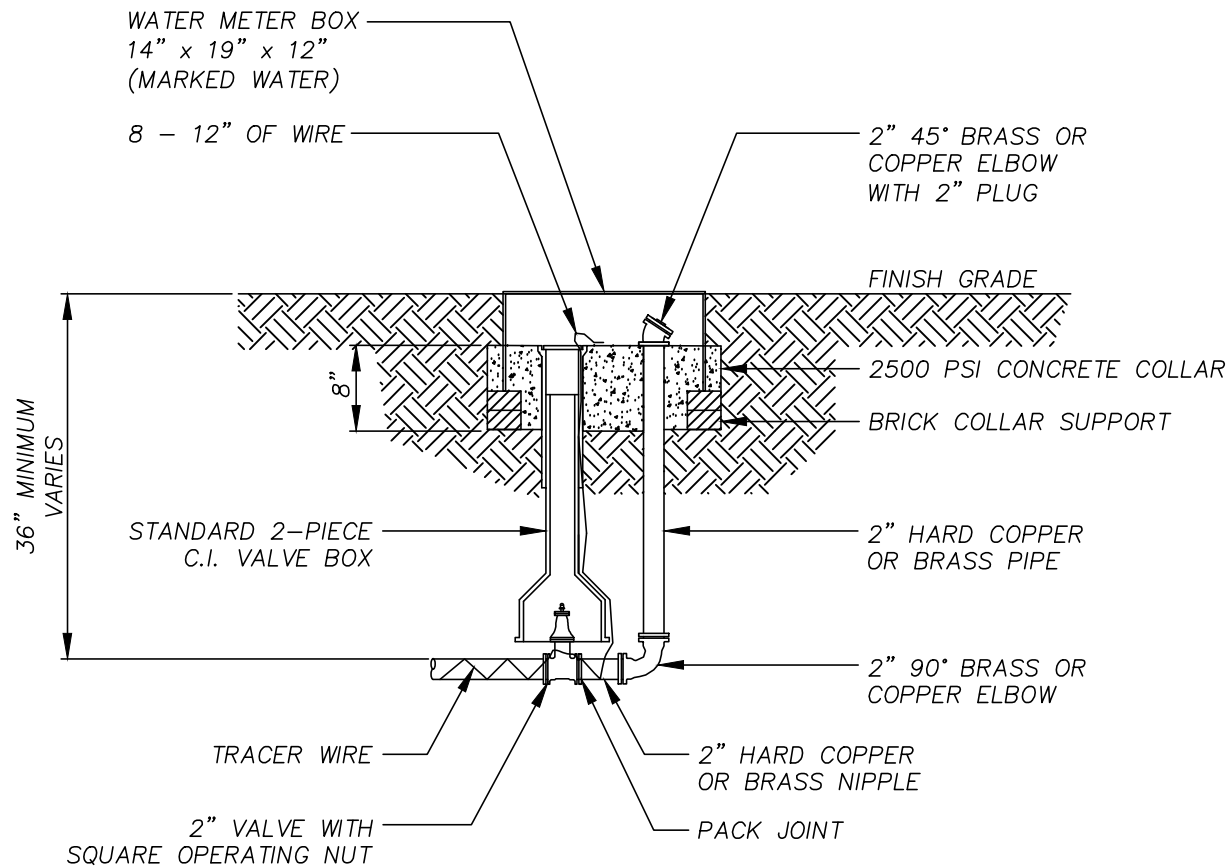
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

1. THIS INSTALLATION IS TO BE MADE AT THE END OF DEAD END LINES AND SHALL BE LOCATED OUTSIDE OF THE TRAFFIC AREAS.
2. PRIOR TO INSTALLATION OF CONCRETE COLLAR, THE FLUSH VALVE ASSEMBLY SHALL BE TESTED TO ENSURE THE FLOW CLEARS THE EDGE OF THE BOX.

NOT TO SCALE



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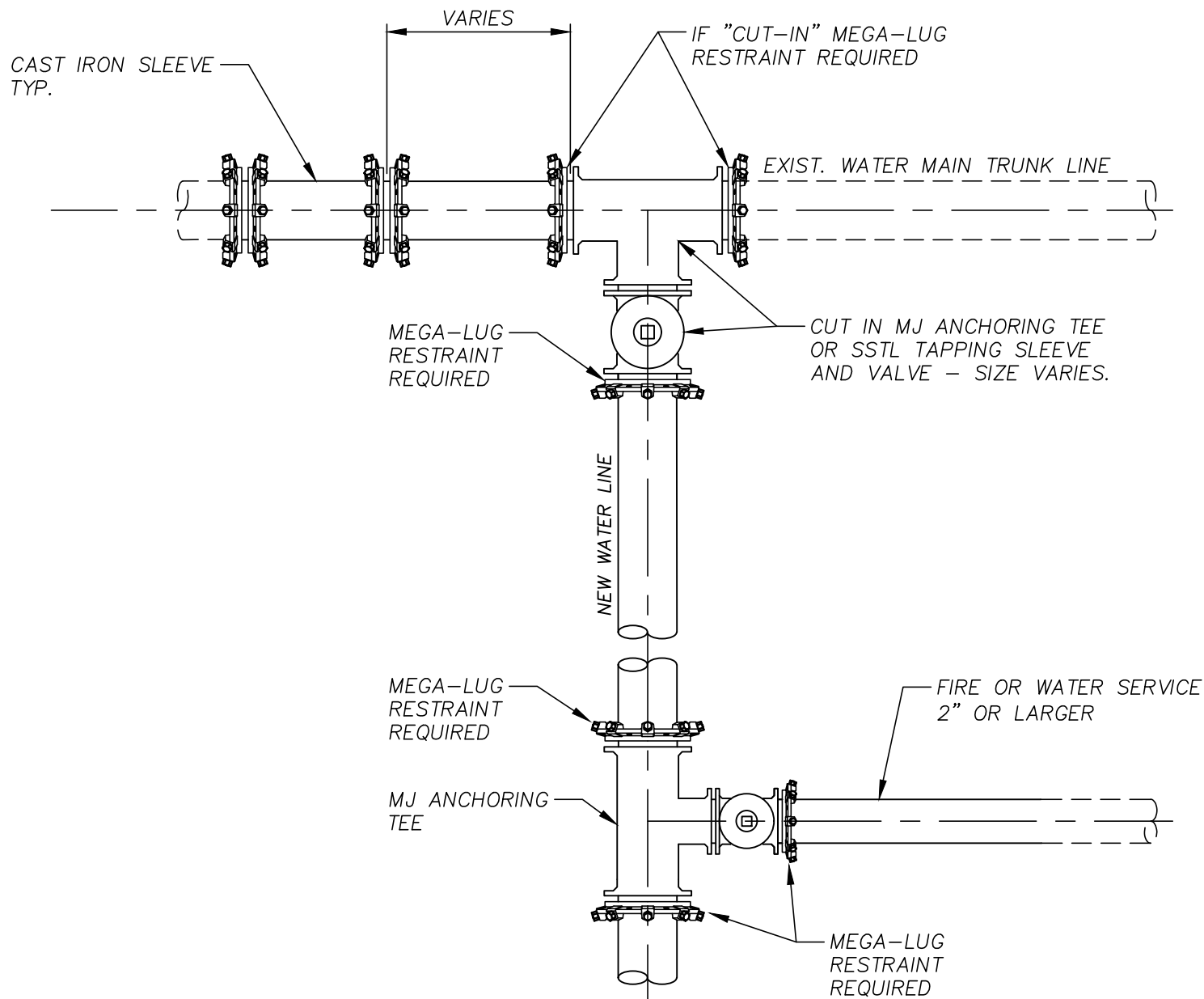
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Fax: (912) 261-7178
Website: www.bgjwsc.org

**FLUSH VALVE AND
RISER DETAIL**

JWSC 2-27

DESIGNED: BGJWSC DRAWN: HPATEL
DATE: 05/26/2022 SCALE: NTS

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TEE CONNECTION TO NEW WATER MAIN

JWSC 2-28

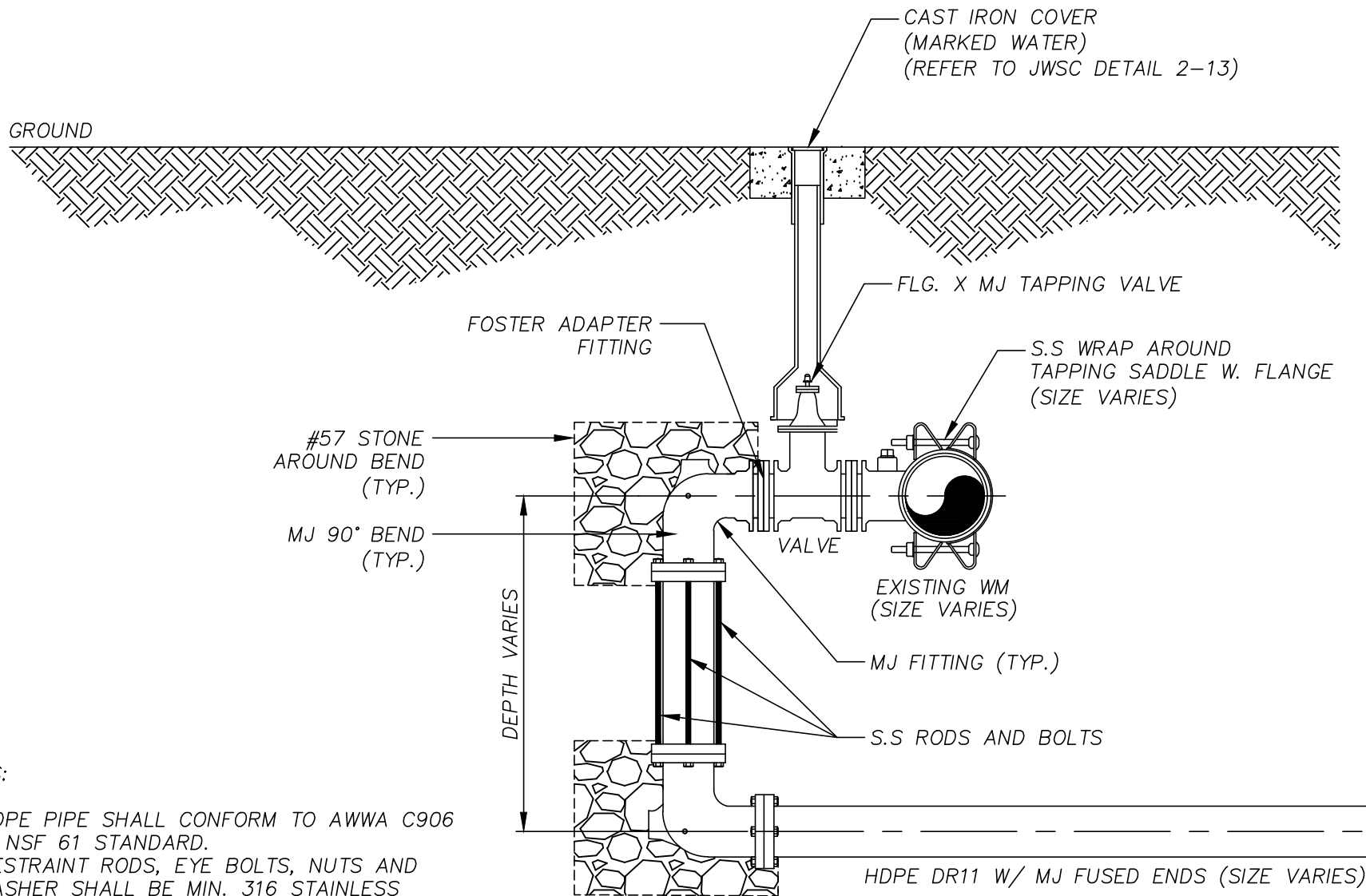
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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NOTES:

1. HDPE PIPE SHALL CONFORM TO AWWA C906 & NSF 61 STANDARD.
2. RESTRAINT RODS, EYE BOLTS, NUTS AND WASHER SHALL BE MIN. 316 STAINLESS STEEL (SEE 2.4.3.3 FIGURE WD-2 FOR ROD SIZE AND NO. OF RODS).
3. **THE APPROVAL OF THIS TYPE OF INSTALLATION MUST COME FROM THE JWSC WATER DISTRIBUTION SUPERINTENDENT.**

NOT TO SCALE



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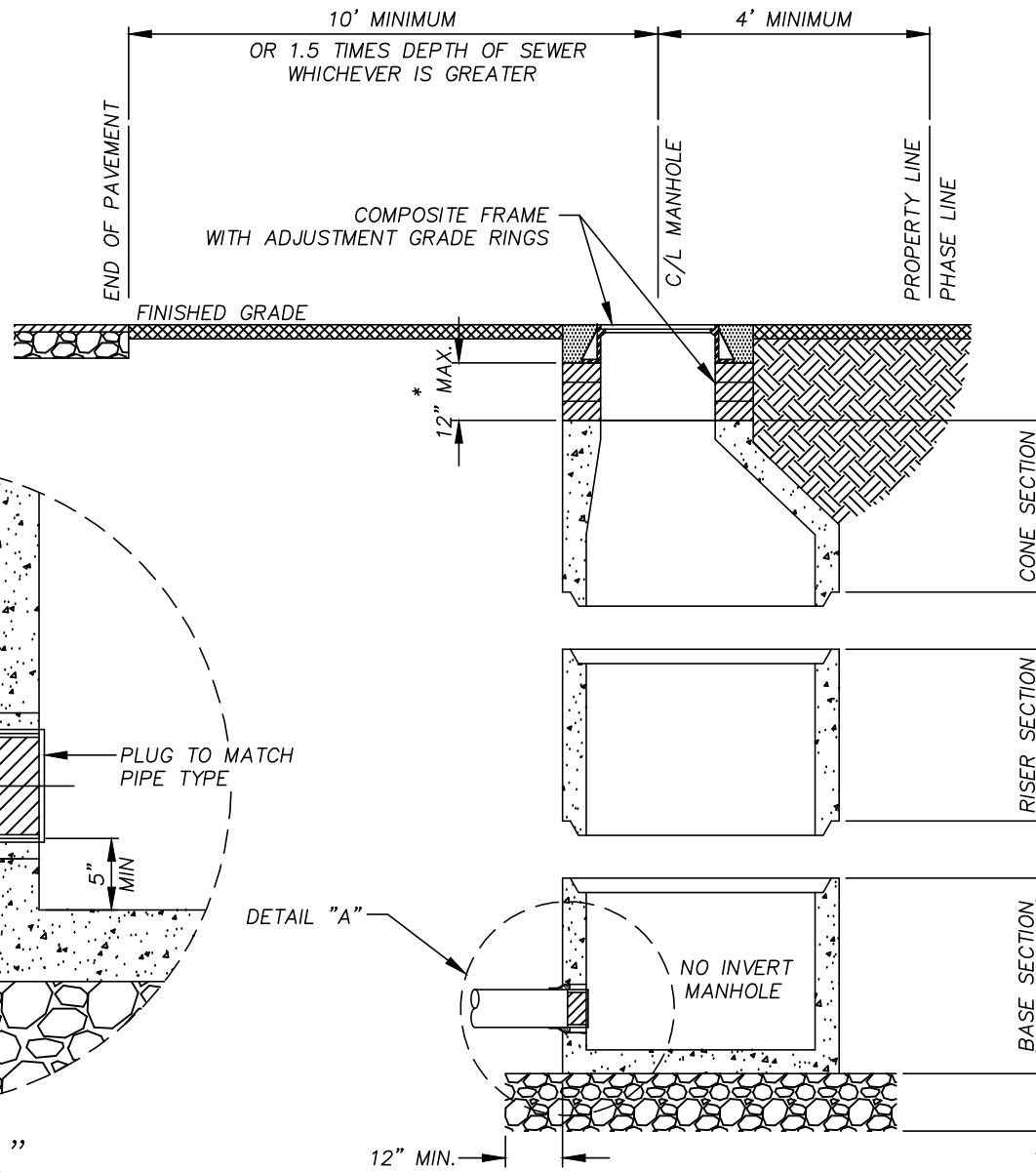
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REVERSE TAP DETAIL

JWSC 2-29

DESIGNED: BGJWSC DRAWN: HPATEL
DATE: 05/26/2022 SCALE: NTS

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GENERAL NOTES:

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

GRADE 40 OR EQUIVALENT
WELDED WIRE MESH

* VARIABLE GRADE ADJUSTMENT
BY LADTECH GRADE RINGS OR
APPROVED EQUAL AS REQUIRED

DETAIL "A"

NOT TO SCALE



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GRAVITY MAIN STUB OUT MANHOLE

JWSC 3-1

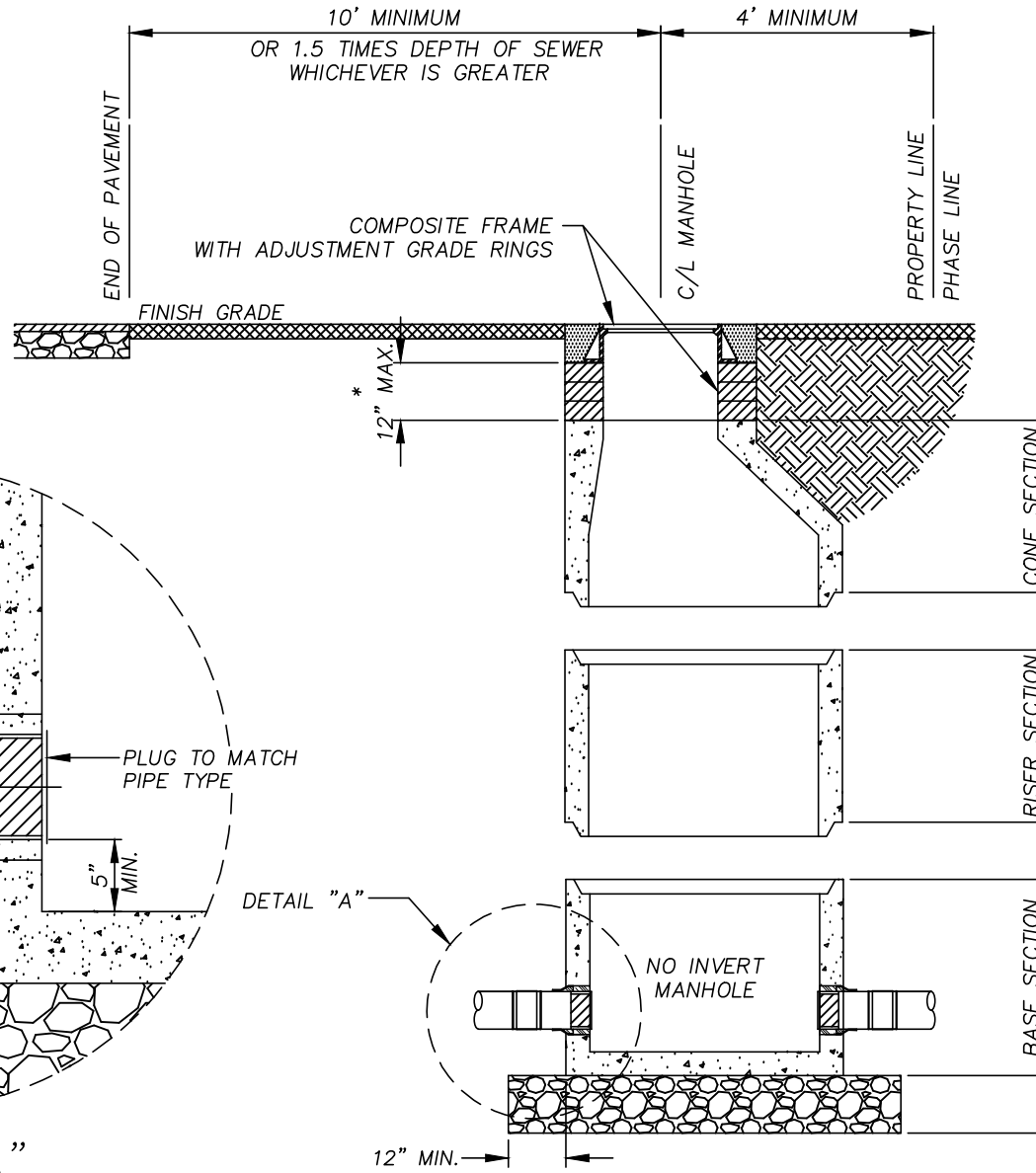
DESIGNED: BGJWSC

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SCALE: NTS

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GENERAL NOTES:

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

CUT OUT EXISTING SEWER MAIN

INSTALL BASE SECTIONS WITH RUBBER BOOTS TO MATCH PIPE INVERT

INSTALL NEW PIPE AND CONNECT TO THE EXISTING SEWER MAIN WITH A MISSION ADJUSTABLE REPAIR COUPLING (ARC) OR APPROVED EQUAL

REMOVE PLUG AFTER INSTALLATION IS COMPLETE

GRADE 40 OR EQUIVALENT WELDED WIRE MESH

* VARIABLE GRADE ADJUSTMENT BY LADTECH GRADE RINGS OR APPROVED EQUAL AS REQUIRED

NOT TO SCALE



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CUT-IN MANHOLE BASE

JWSC 3-1A

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

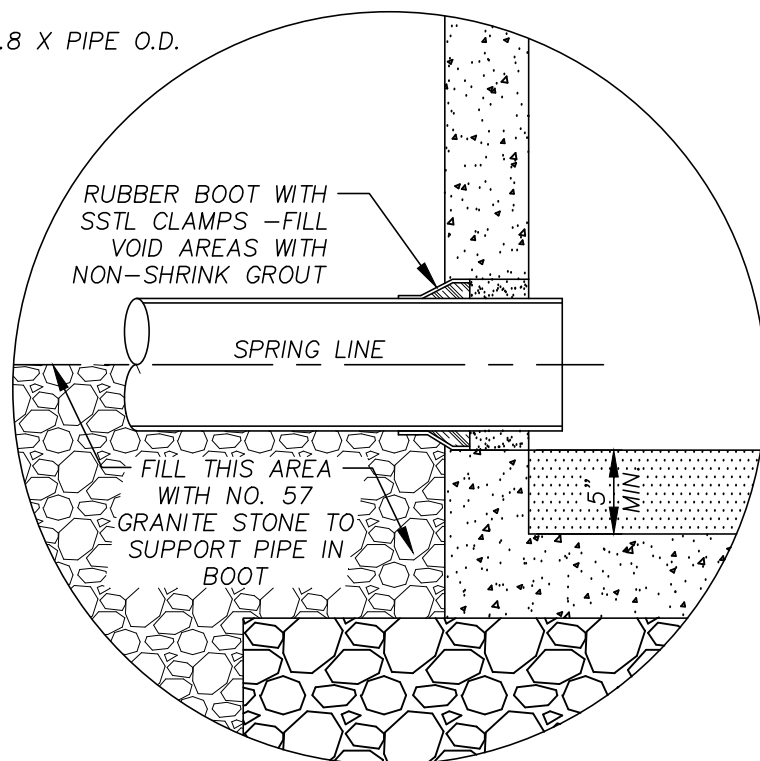
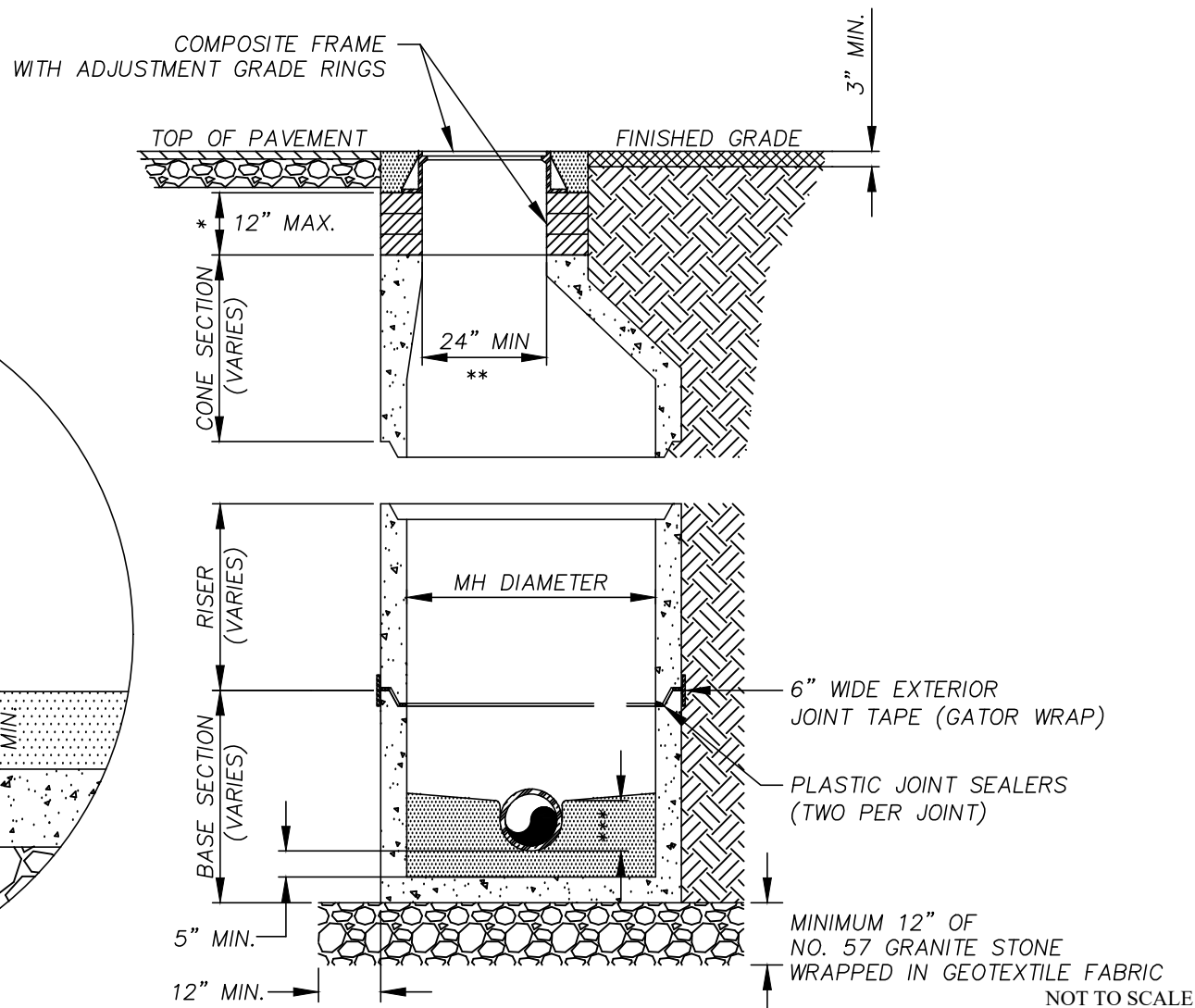
GRADE 40 OR EQUIVALENT WELDED WIRE MESH

* VARIABLE GRADE ADJUSTMENT BY LADTECH GRADE RINGS OR APPROVED EQUAL AS REQUIRED

** INCREASE TO 32" ON TRUNK LINES WHERE SEWER IS 18" IN DIAMETER OR GREATER.

*** 0.8 X PIPE O.D.

PIPE SIZE	MANHOLE DIAMETER
6" THRU 15"	4'-0"
18" THRU 30"	5'-0"
36" THRU 48"	6'-0"
> 48"	8'-0"



**BRUNSWICK-GLYNN JOINT WATER
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Brunswick, Georgia 31520

Website: www.bgjwsc.org

Phone: (912) 261-7110
Fax: (912) 261-7178

**STANDARD MANHOLE
SECTION**

JWSC 3-2A

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

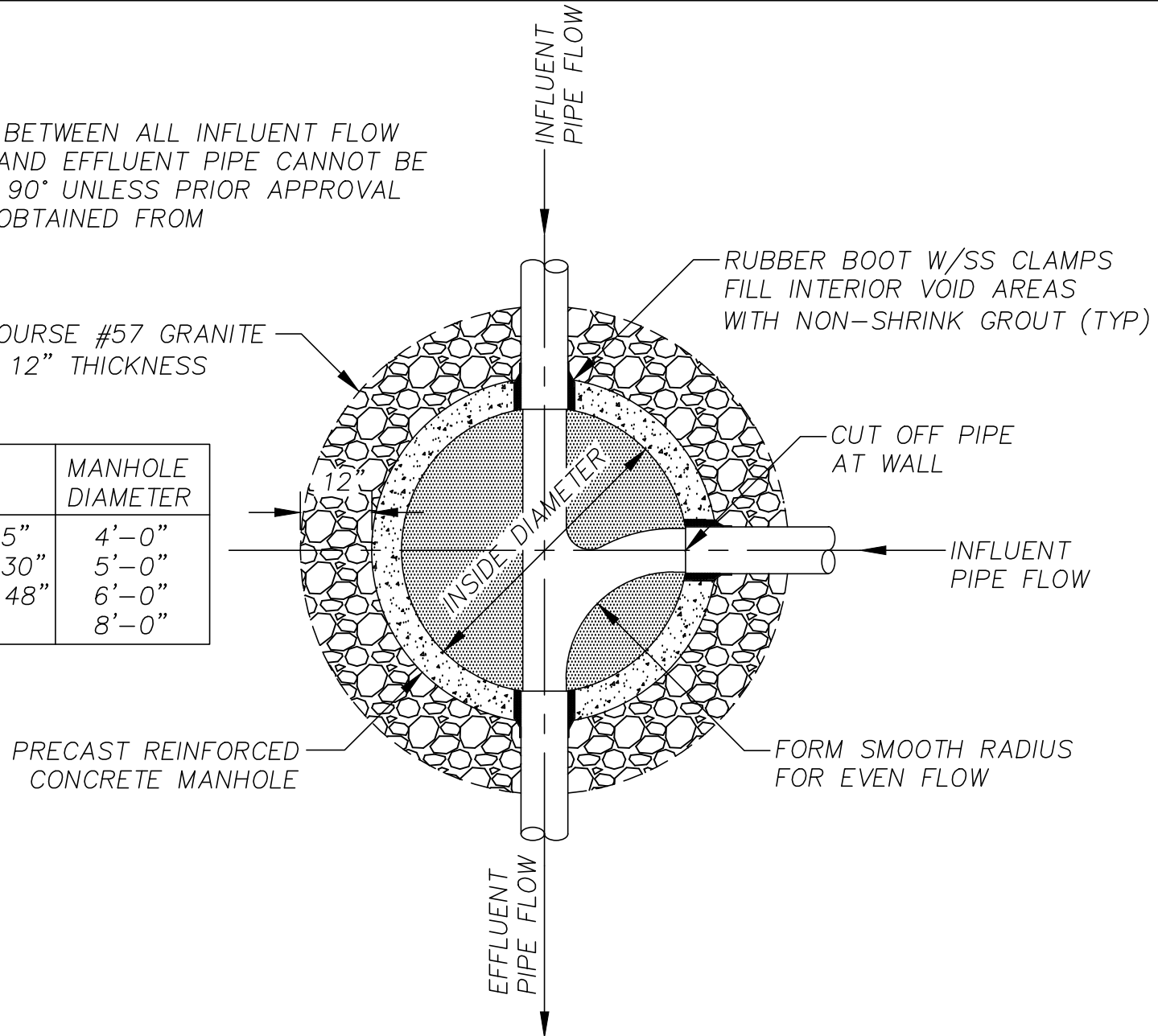
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NOTE:

THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE CANNOT BE LESS THAN 90° UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE JWSC

LEVELING COURSE #57 GRANITE STONE MIN. 12" THICKNESS

PIPE SIZE	MANHOLE DIAMETER
6" THRU 15"	4'-0"
18" THRU 30"	5'-0"
36" THRU 48"	6'-0"
> 48"	8'-0"



NOT TO SCALE



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STANDARD MANHOLE PLAN

JWSC 3-2B

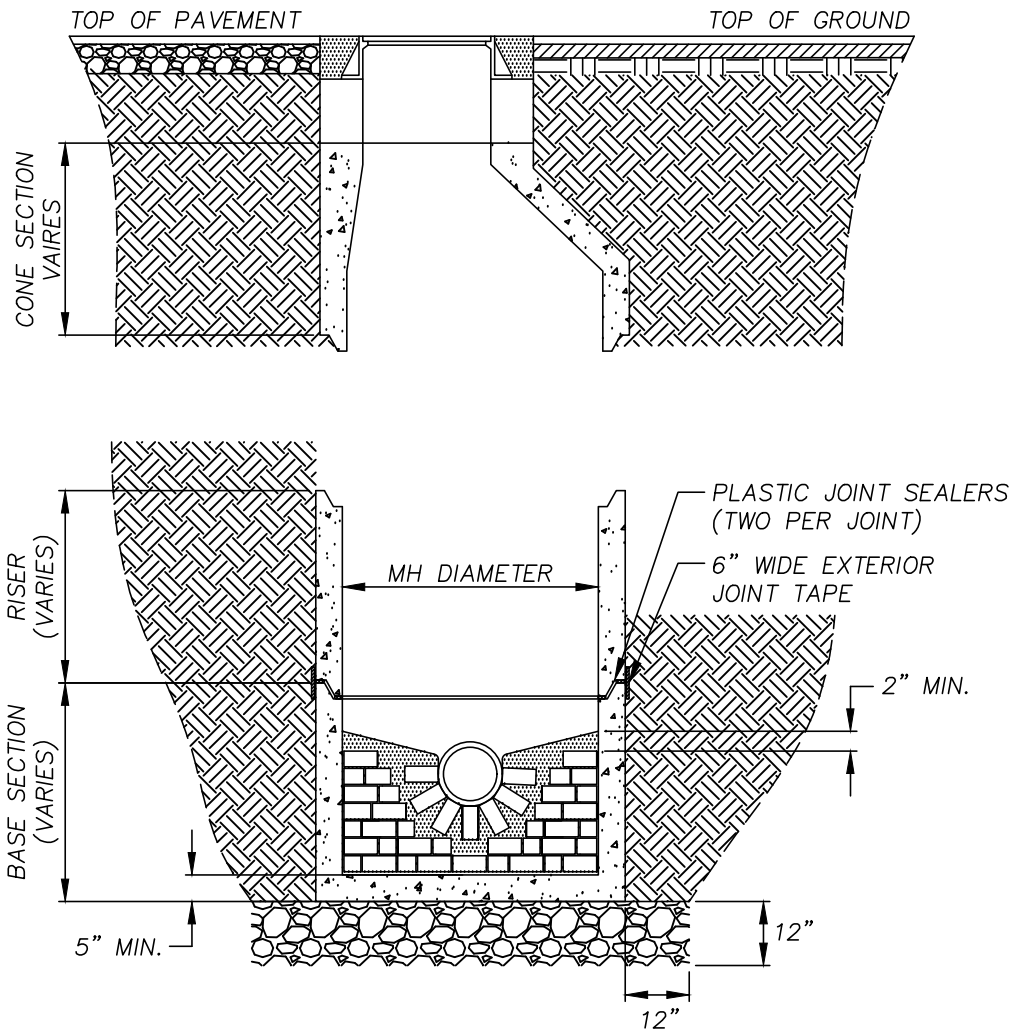
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

CONCRETE USED FOR INVERTS MUST NOT EXCEED 3 PARTS SAND TO 1 PART PORTLAND CEMENT.
(MORTAR IS NOT ALLOWED)

PRECAST INVERTS ARE ACCEPTABLE

ENSURE A 0.1 FOOT DROP ACROSS INVERT

INVERTS FOR MANHOLES RECEIVING FORCEMAINS SHALL BE SIMILARLY CONSTRUCTED.

MAXIMUM GROUT SPACING BETWEEN BRICK SHALL BE 3/8"

PIPE SIZE	DEFLECTION	MIN. MH DIA.
8 INCH & 15 INCH	0° – 90°	4' – 0"
18 INCH	0° – 60°	4' – 0"
18 INCH	60° – 90°	5' – 0"
21 INCH & 24 INCH	0° – 60°	5' – 0"
21 INCH & 24 INCH	60° – 90°	6' – 0"

NOT TO SCALE



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STANDARD MH SECTION BRICK INVERT AND APRON CONSTRUCTION

JWSC 3-2C

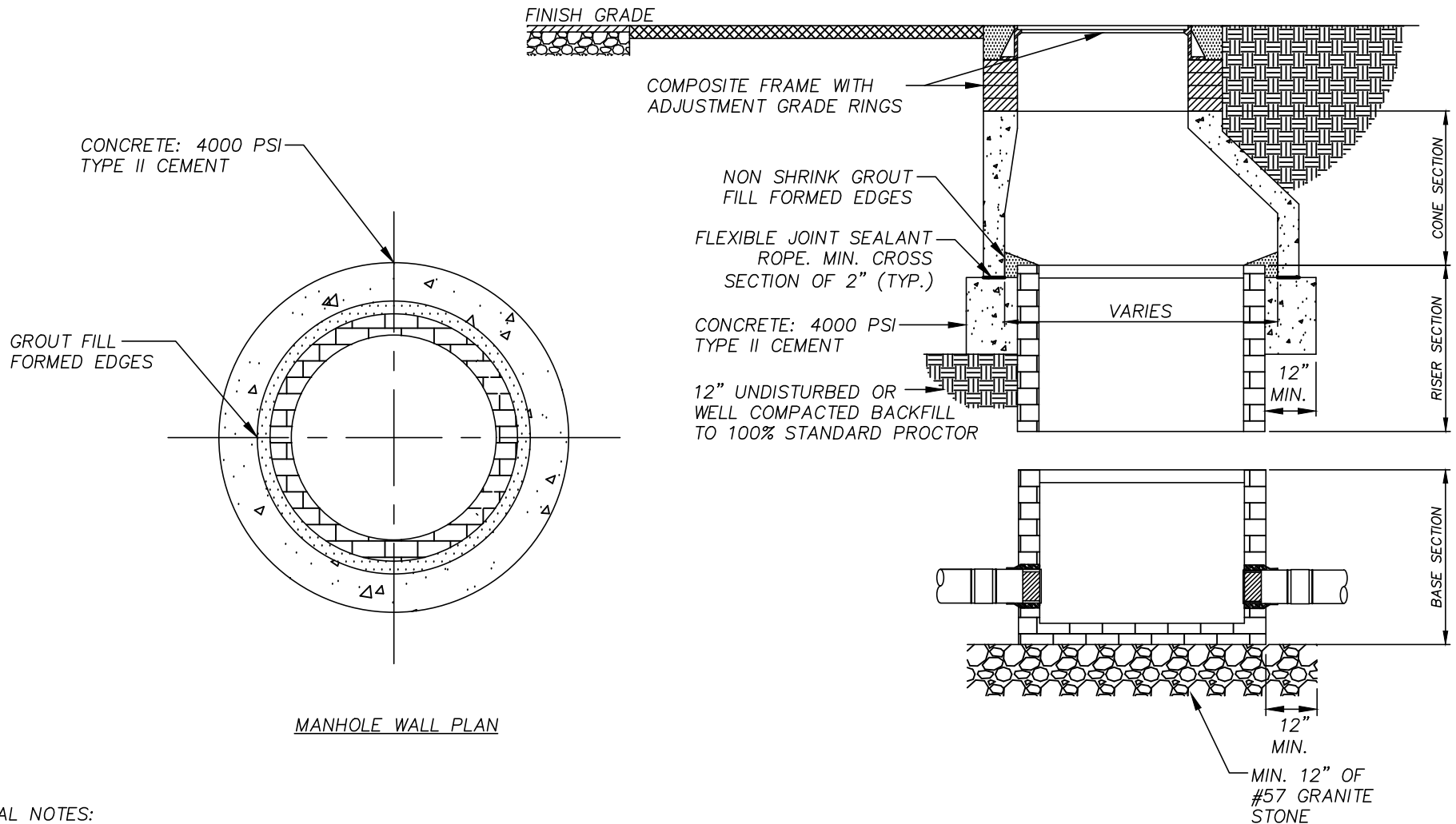
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

CONTRACTOR TO MEASURE O.D. OF EXISTING BRICK MANHOLE AND INSTALL THE NEXT NOMINAL SIZE CONE SECTION. FOOTER MUST SET A MIN. 72 HOURS BEFORE THE PRECAST SECTION IS INSTALLED. INSTALL FLEXIBLE BUTYL RUBBER SEALANT BETWEEN THE FOOTER AND PRECAST CONE. FOR CORROSION PROTECTION, STRUCTURE IS TO BE LINED WITH JWSC APPROVED COATING.

NOT TO SCALE



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**BRICK TO PRECAST MH
TRANSITION DETAIL**

JWSC 3-2D

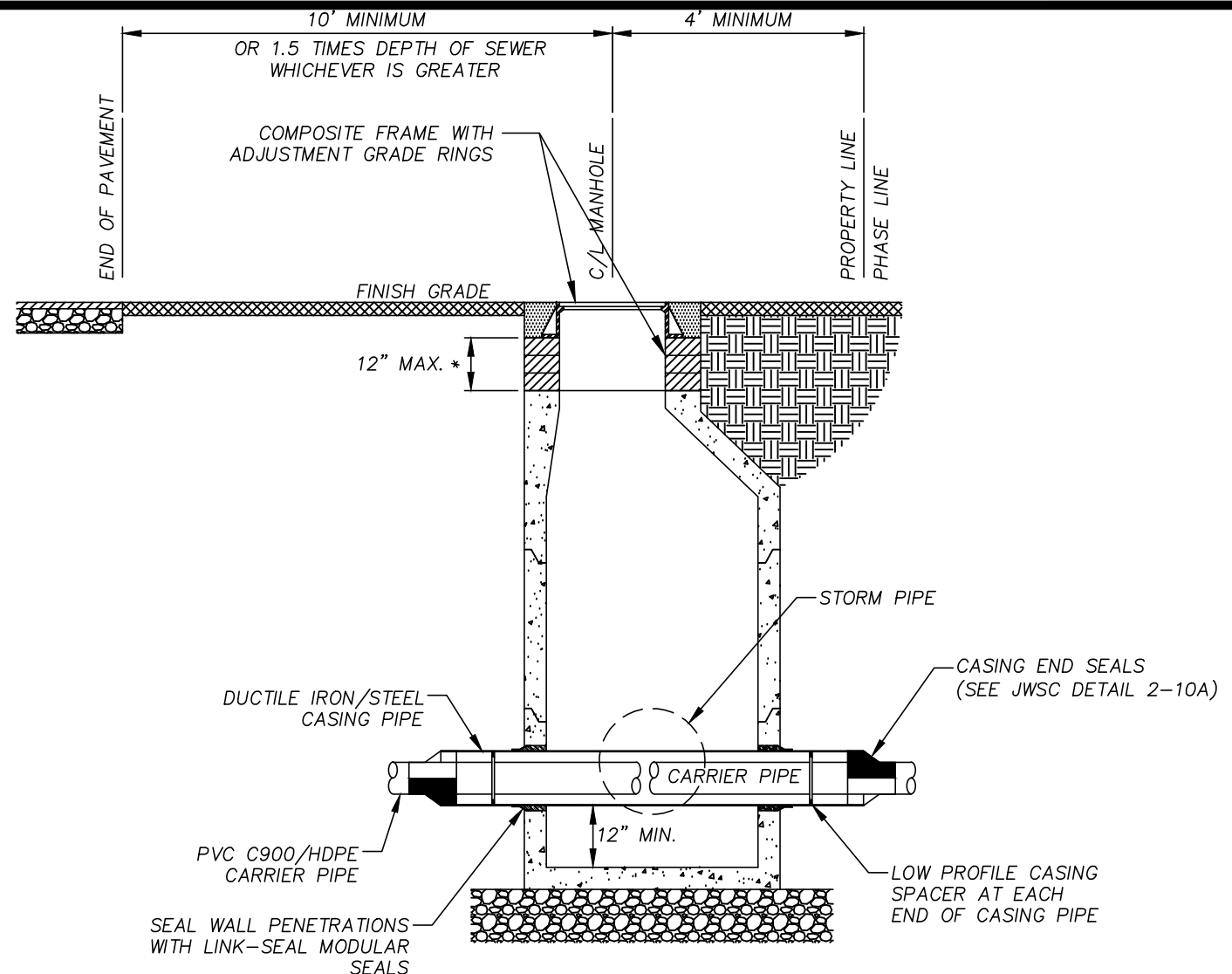
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DRAWN: HPATEL

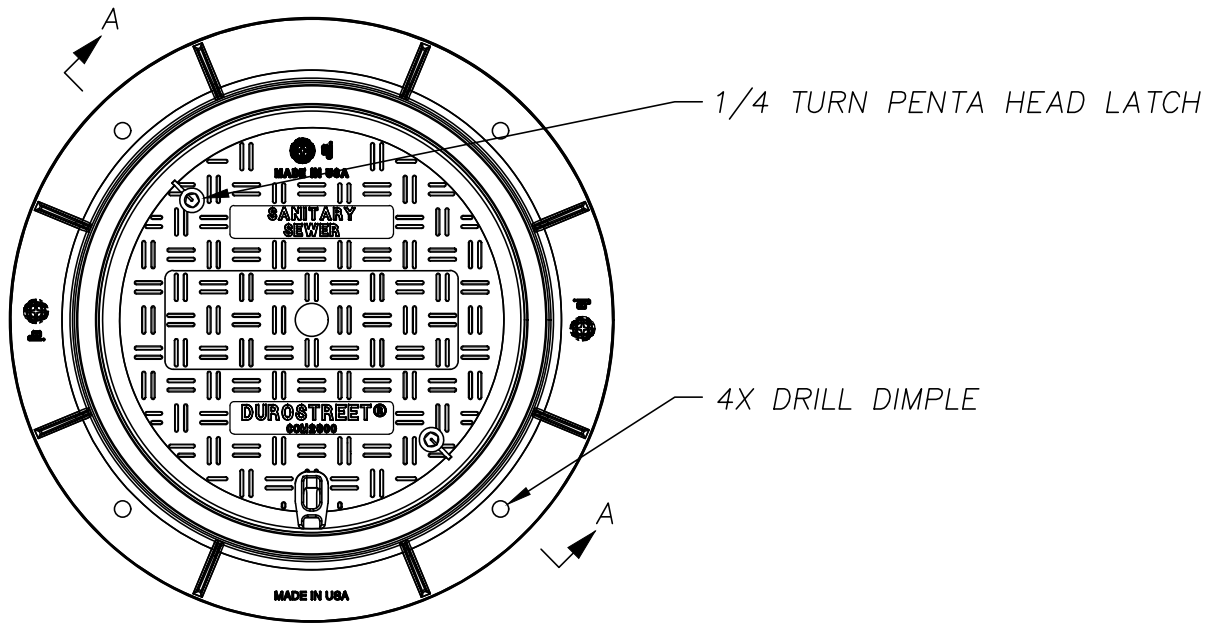
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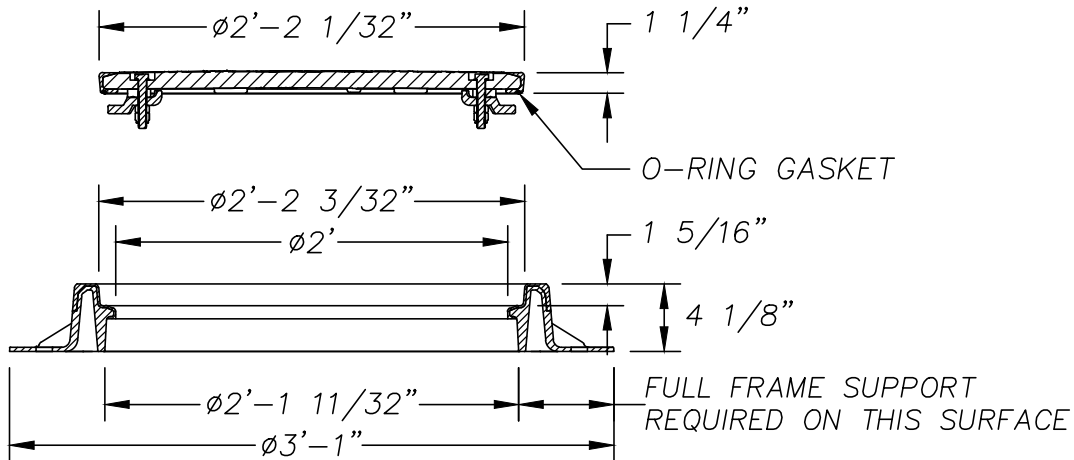
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COMPOSITE ASSEMBLY



PLAN VIEW



SECTION A-A

GENERAL NOTES:

PRODUCT NUMBER: COM260318A01

DESIGN FEATURES:

- LOAD RATING - H25 (50,000LB)
- ESTIMATED WEIGHT - 70LB
- REQUIRED ACCESSORY:
 - 13/16" PENTA-HEAD WRENCH
 - NOT INCLUDED

MAJOR COMPONENTS: COM260210
COM260318

NOT TO SCALE



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MANHOLE FRAME & COVER - 24" OPENING

JWSC 3-2F

DESIGNED: BGJWSC

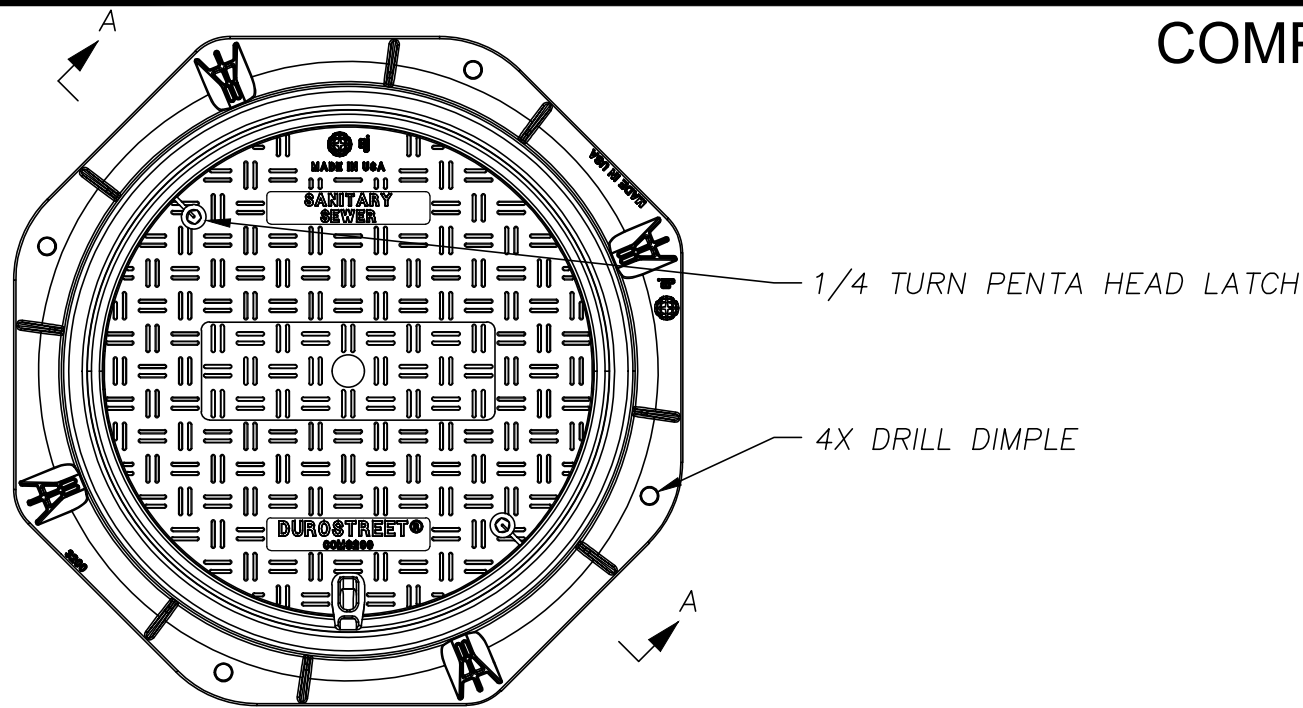
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DATE: 05/26/2022

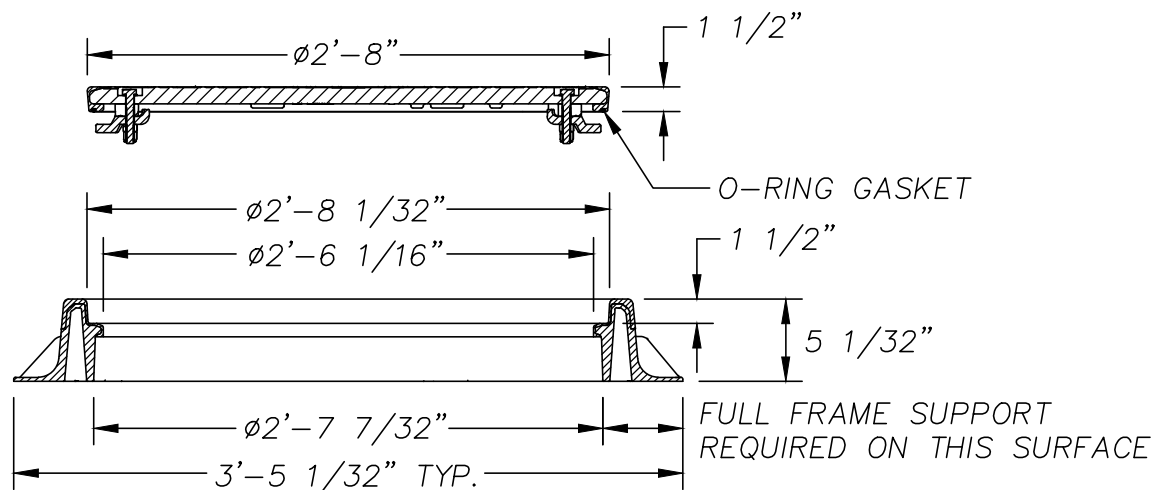
SCALE: NTS

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COMPOSITE ASSEMBLY



PLAN VIEW



SECTION A-A

GENERAL NOTES:

PRODUCT NUMBER: COM320155A01

DESIGN FEATURES:

- LOAD RATING - H25 (50,000LB)
- ESTIMATED WEIGHT - 109LB
- REQUIRED ACCESSORY:
 - $\frac{13}{16}''$ PENTA-HEAD WRENCH
 - NOT INCLUDED

MAJOR COMPONENTS: COM320010
COM320155

NOT TO SCALE



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**MANHOLE FRAME &
COVER - 30" OPENING**

JWSC 3-2G

DESIGNED: BGJWSC

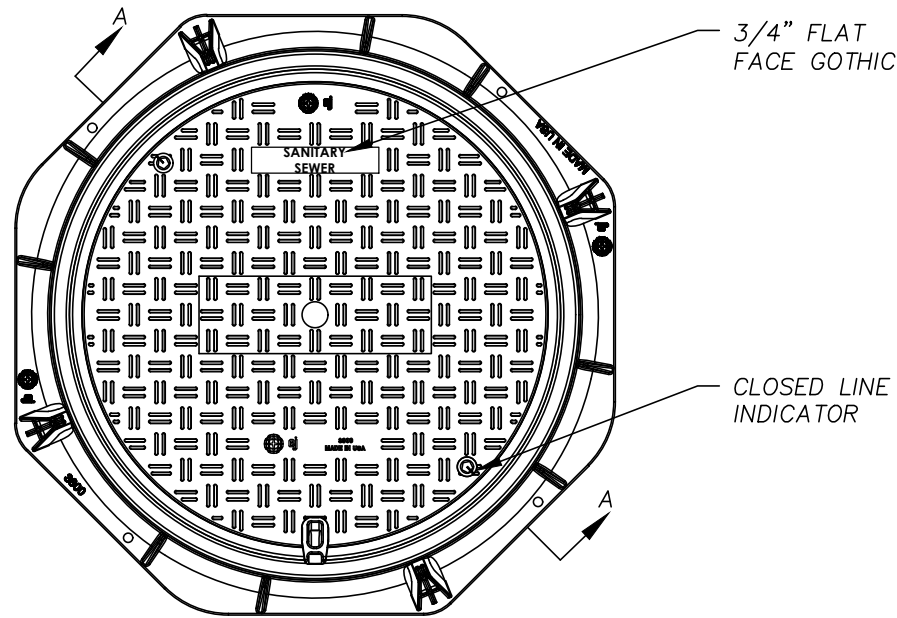
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DATE: 05/26/2022

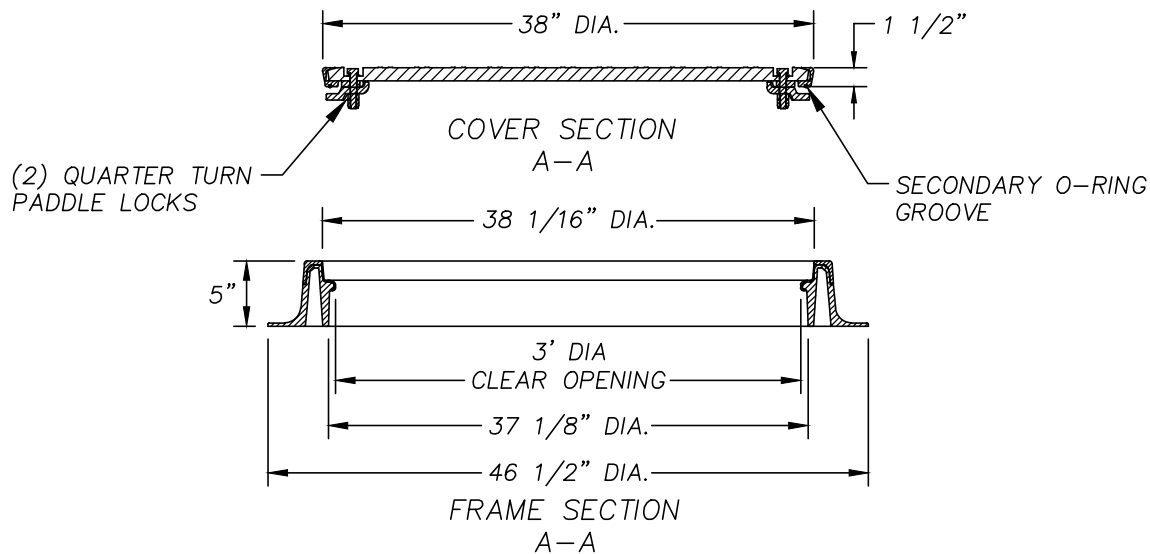
SCALE: NTS

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COMPOSITE ASSEMBLY



PLAN VIEW



GENERAL NOTES:

PRODUCT NUMBER: COM380224A01

DESIGN FEATURES:

- LOAD RATING - H20 (PER AASHTO M306)
- ESTIMATED WEIGHT - COVER 70LB - FRAME 45LB

NOT TO SCALE



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MANHOLE FRAME & COVER - 36" OPENING

JWSC 3-2H

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

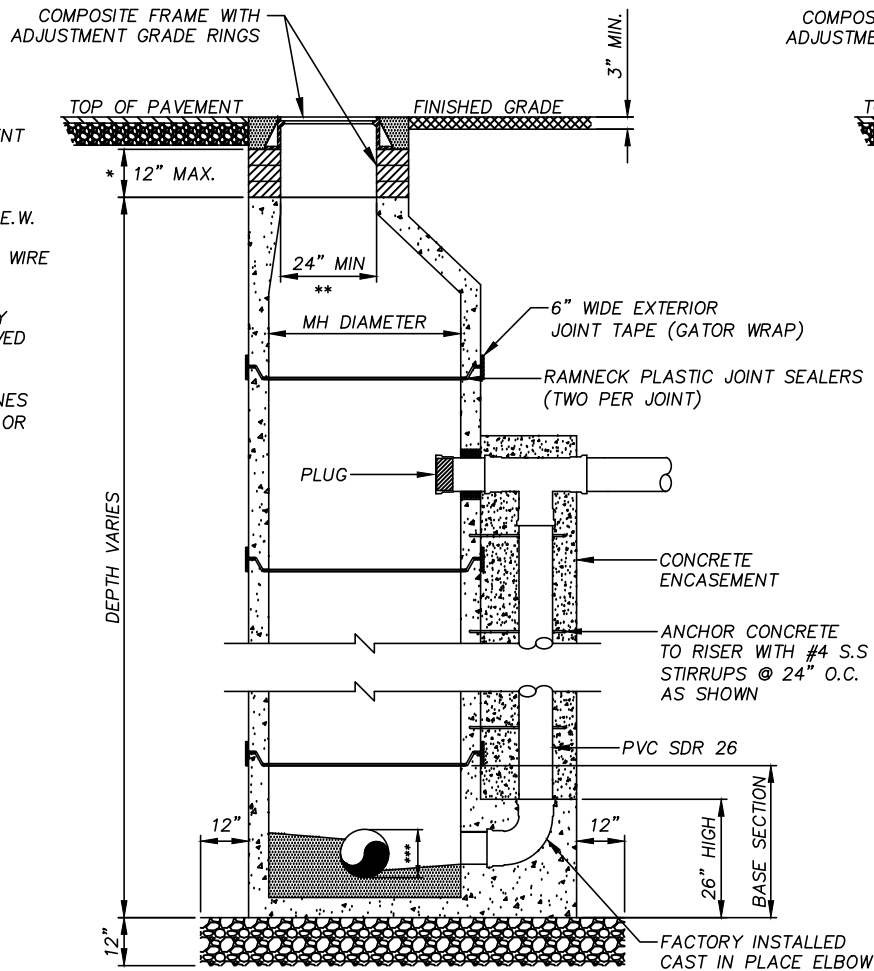
GRADE 40 OR EQUIVALENT WELDED WIRE MESH

* VARIABLE GRADE ADJUSTMENT BY LADTECH GRADE RINGS OR APPROVED EQUAL AS REQUIRED

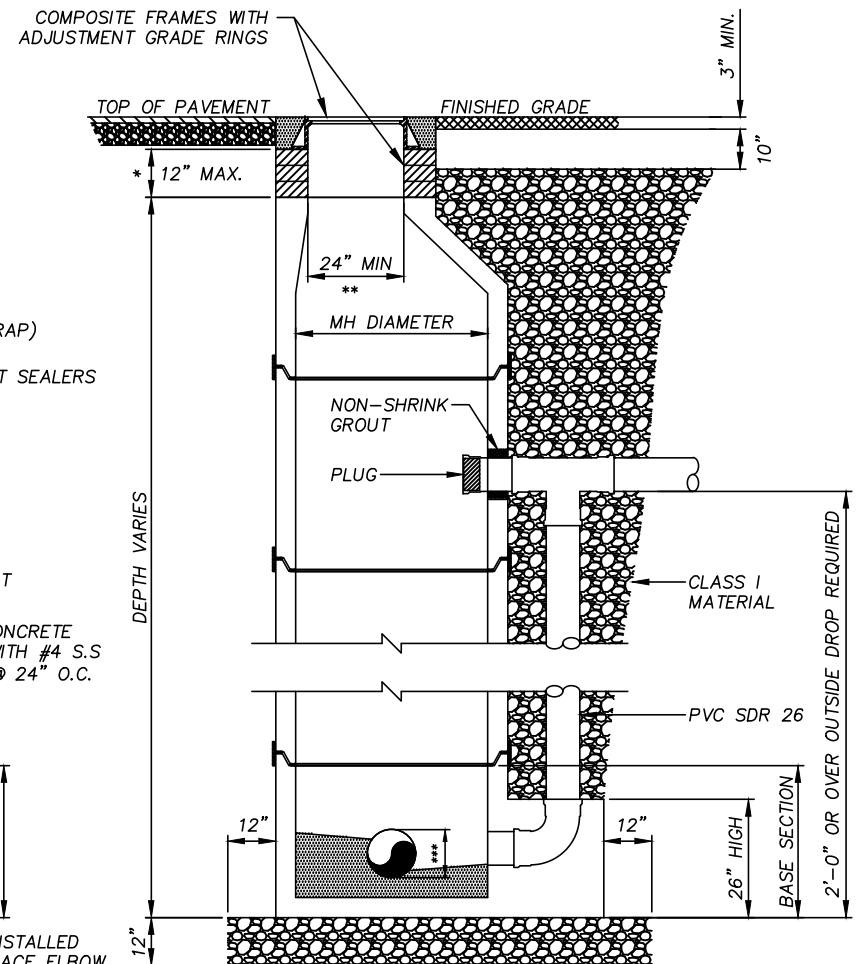
** INCREASE TO 32" ON TRUNK LINES WHERE SEWER IS 18" IN DIAMETER OR GREATER.

*** 0.8 X PIPE O.D.

PIPE SIZE	MANHOLE DIAMETER
6" THRU 15"	4'-0"
18" THRU 30"	5'-0"
36" THRU 48"	6'-0"
> 48"	8'-0"



OUTSIDE DROPS GREATER THAN 10 FEET



OUTSIDE DROPS 10 FEET OR LESS

NOT TO SCALE



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**OUTSIDE DROP
MANHOLE SECTION**

JWSC 3-3A

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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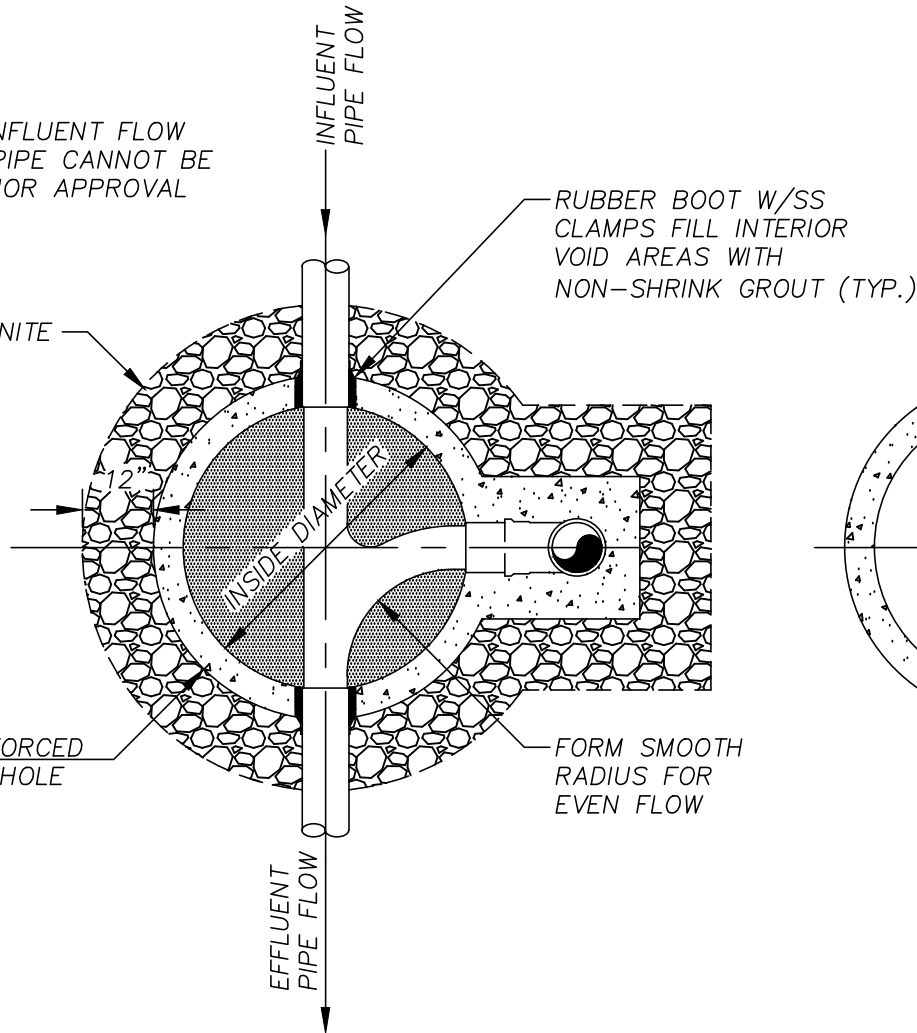
NOTE:

THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE CANNOT BE LESS THAN 90° UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE JWSC

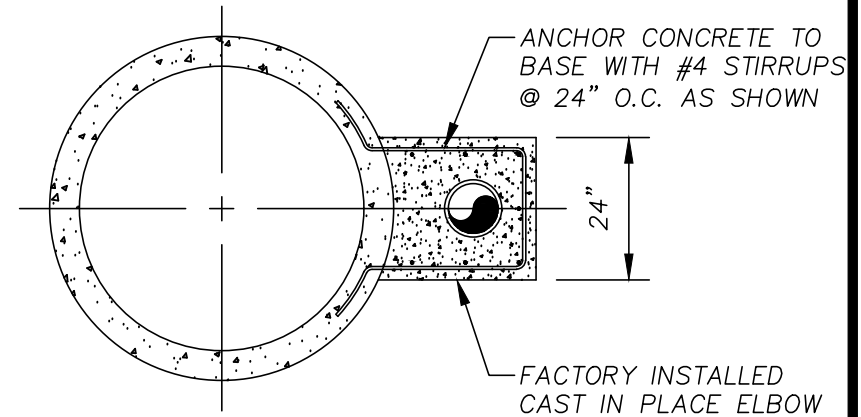
LEVELING COURSE #57 GRANITE STONE MIN. 12" THICKNESS

PIPE SIZE	MANHOLE DIAMETER
6" THRU 15"	4'-0"
18" THRU 30"	5'-0"
36" THRU 48"	6'-0"
> 48"	8'-0"

PRECAST REINFORCED CONCRETE MANHOLE



OUTSIDE DROP MANHOLE BASE PLAN



OUTSIDE DROP MANHOLE WALL PLAN

NOT TO SCALE



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OUTSIDE DROP MANHOLE PLAN

JWSC 3-3B

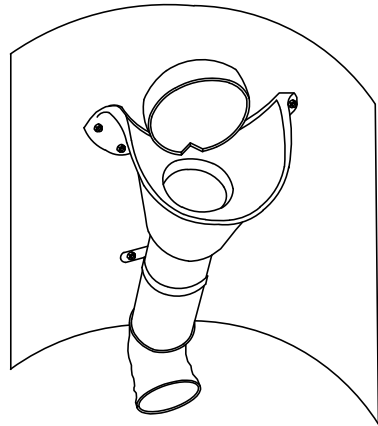
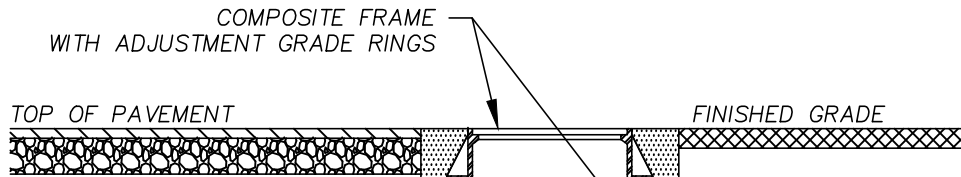
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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NOTE:

THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE CANNOT BE LESS THAN 90° UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE JWSC

NON-CORROSIVE
11 GAUGE 316 SSTL
STRAP 1 1/2" MIN.
WIDTH

PVC DROP
PIPE

USE 3/8" RED HEAD
ANCHOR TO ATTACH
TO MANHOLE WALL

RELINER INSIDE DROP BOWL
SECURED WITH SSTL FASTENERS

PIPE COUPLING

RELINER OR APPROVED EQUAL
SSTL PIPE BRACKET SECURED
TO STRUCTURE WITH (2) SSTL
BOLTS. (4' INTERVALS, 2 MIN.
BRACKETS REQ'D.)

NON-CORROSIVE 11 GAUGE
316 SSTL STRAP 1 1/2" MIN.
WIDTH (2'-0" O.C.)

PVC SDR26
DROP PIPE

1. CORE DRILL EXISTING MH.
2. INSTALL RUBBER BOOT WITH STAINLESS STEEL STRAPS.
3. FILL VOID AREAS WITH NON-SHRINK GROUT.

2'-0" OR OVER
INSIDE DROP
REQUIRED

MINIMUM 12" OF NO.
57 GRANITE STONE
WRAPPED IN GEOTEXTILE FABRIC

12" MIN.

NOT TO SCALE



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**INSIDE DROP MANHOLE
SECTION - EXISTING MH
STRUCTURE**

JWSC 3-4A

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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NOTE:
THE ANGLE BETWEEN ALL INFLUENT FLOW
CHANNELS AND EFFLUENT PIPE CANNOT BE
LESS THAN 90° UNLESS PRIOR APPROVAL
HAS BEEN OBTAINED FROM
THE JWSC

LEVELING COURSE #57 GRANITE
STONE MIN. 12" THICKNESS

PRECAST REINFORCED
CONCRETE MANHOLE

12"

INSIDE DIAMETER

EFFLUENT
PIPE FLOW

INFLUENT
PIPE FLOW

RUBBER BOOT W/SS CLAMPS
FILL INTERIOR VOID AREAS
WITH NON-SHRINK GROUT (TYP)

CUT OFF PIPE
AT WALL

INFLUENT
PIPE FLOW

RELINER INSIDE DROP BOWL
SECURED WITH SSTL
FASTENERS

FORM SMOOTH RADIUS
FOR EVEN FLOW

SEE ALSO
DETAIL 3-4A

NOT TO SCALE

PIPE SIZE	MANHOLE DIAMETER
6" THRU 15"	4'-0"
18" THRU 30"	5'-0"
36" THRU 48"	6'-0"
> 48"	8'-0"



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INSIDE DROP MANHOLE PLAN

JWSC 3-4B

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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GENERAL NOTES:

1. THE MINIMUM SIZE FOR HOUSE SERVICE LATERALS SHALL BE 4". WHERE DOUBLE SERVICES ARE INSTALLED, A 6" LATERAL SHALL BE USED FROM THE MAIN TO THE PROPERTY LINE. AS DETERMINED BY THE JWSC COMMERCIAL DEVELOPMENTS, SHALL BE REQUIRED TO INSTALL A 6" LATERAL FROM THE MAIN TO THE PROPERTY LINE, RIGHT-OF-WAY OR EASEMENT LINE.
2. THE MAXIMUM LENGTH OF A SERVICE LATERAL SHALL NOT EXCEED 60' AS MEASURED FROM THE SEWER MAIN (OR MANHOLE) TO THE PROPERTY LINE.
3. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. MIN. AND MAX. BURY DEPTHS SHALL COMPLY WITH JWSC SPECIFICATIONS.
4. ALL SERVICES SHALL BE RUN PERPENDICULAR TO THE RIGHT-OF-WAY LINE.
5. SERVICE CONNECTIONS ARE NOT PERMITTED ON SEWER MAINS OR TRUNK LINES LARGER THAN 15-INCHES IN DIAMETER.
6. ALL GRAVITY MAINS AND SEWER SERVICE LATERALS (INCLUDING THE TEE-WYE FITTING) WITH A DEPTH OF CUT SHALL BE NO GREATER GREATER THAN 12 FEET.
7. CLEANOUT SHALL BE INSTALLED AT RIGHT-OF-WAY OR EASEMENT LINE UPON CONNECTION OF THE CUSTOMER TO PUBLIC SEWER. SEE CLEANOUT DETAIL FOR ADDITIONAL INFORMATION.
8. THE SERVICE LINE DEPTH AT THE RIGHT-OF-WAY OR EASEMENT SHALL HAVE A MINIMUM OF 3'-0" COVER.
9. IN LIEU OF SEWER SAFE DIP (PROTECTO 401 COATED OR APPROVED EQUAL) DR18 C900 PVC PIPE MAY BE INSTALLED. FITTINGS SHALL BE DR 18 AS MANUFACTURED BY IPEX OR APPROVED EQUAL. PIPE SHALL BE GREEN IN COLOR.

NOT TO SCALE



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GENERAL NOTES SEWER SERVICES

JWSC 3-5

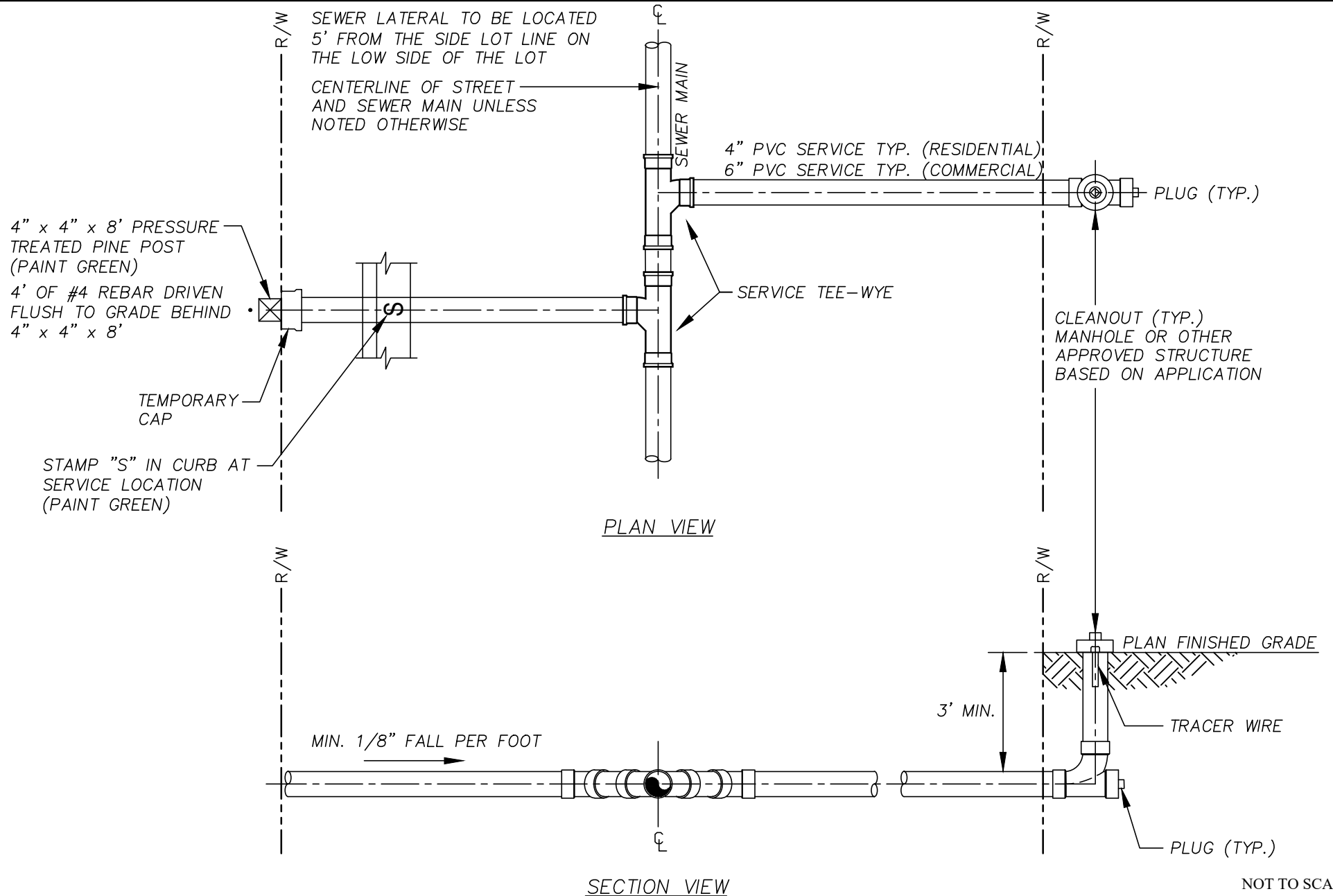
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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SINGLE SEWER SERVICE PLAN VIEW

JWSC 3-6

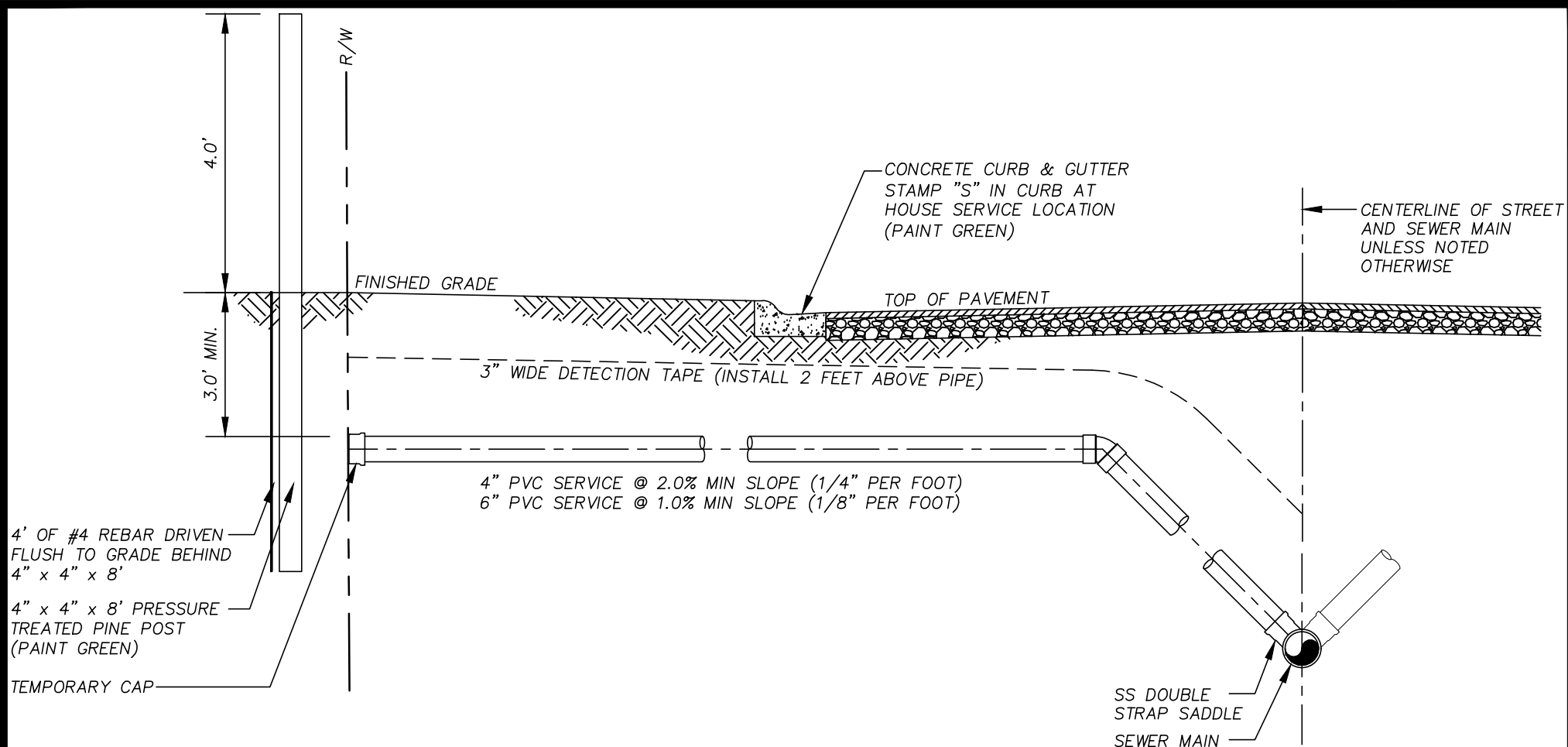
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

1. MINIMUM BURY AT THE R/W IS 3'-0". INSTALL DR18 C900 WHERE MINIMUM BURY DEPTH IS NOT ACHIEVABLE AS DIRECTED BY THE JWSC. PIPE TO BE GREEN IN COLOR.
2. MINIMUM SERVICE FOR COMMERCIAL SITES IS 6" OR AS DIRECTED BY THE JWSC.
3. WHERE C900 IS REQUIRED, ALL FITTINGS SHALL BE C907 DR18 FITTINGS.
4. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.
5. FOR NEW TAP TO EXISTING 15" AND SMALLER GRAVITY MAINS, INSTALL A SSTL DOUBLE STRAPPED SADDLE ON THE MAIN.

NOT TO SCALE



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**SEWER SERVICE
SECTIONAL VIEW**

JWSC 3-8

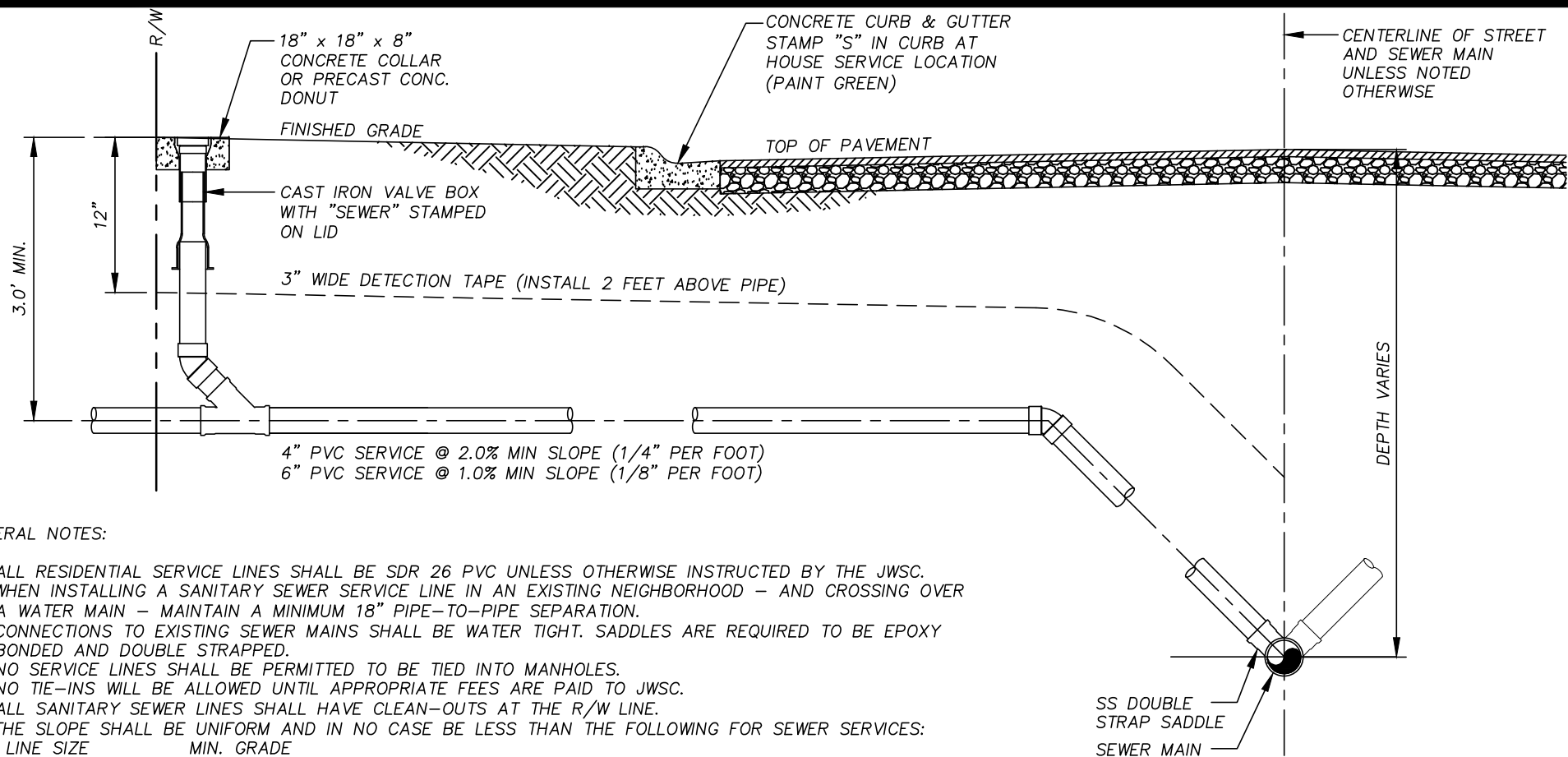
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

- ALL RESIDENTIAL SERVICE LINES SHALL BE SDR 26 PVC UNLESS OTHERWISE INSTRUCTED BY THE JWSC.
- WHEN INSTALLING A SANITARY SEWER SERVICE LINE IN AN EXISTING NEIGHBORHOOD – AND CROSSING OVER A WATER MAIN – MAINTAIN A MINIMUM 18" PIPE-TO-PIPE SEPARATION.
- CONNECTIONS TO EXISTING SEWER MAINS SHALL BE WATER TIGHT. SADDLES ARE REQUIRED TO BE EPOXY BONDED AND DOUBLE STRAPPED.
- NO SERVICE LINES SHALL BE PERMITTED TO BE TIED INTO MANHOLES.
- NO TIE-INS WILL BE ALLOWED UNTIL APPROPRIATE FEES ARE PAID TO JWSC.
- ALL SANITARY SEWER LINES SHALL HAVE CLEAN-OUTS AT THE R/W LINE.
- THE SLOPE SHALL BE UNIFORM AND IN NO CASE BE LESS THAN THE FOLLOWING FOR SEWER SERVICES:

LINE SIZE	MIN. GRADE
4"	2.0% OR 1/4" PER FOOT
6"	1.0% OR 1/8" PER FOOT
- DESIGN OF DEEP SEWER (>9FT) CONNECTIONS SHALL BE APPROVED BY THE JWSC.
- SADDLE MUST BE P.V.C, O.D. SPECIFIC AND HAVE EPOXY SEAL AROUND TAP. WYE FITTING SHALL HAVE POLLY TAPE AROUND STAINLESS STEEL STRAPS.
- A HOLE SAW SHALL BE USED TO MAKE TAPS ON EXISTING SEWER MAINS; THE COUPON FROM THE TAP MUST BE AVAILABLE TO THE JWSC INSPECTOR.
- NEW TAPS ON LINED SEWER MAINS – THE OUTER MATERIAL MUST BE COMPLETELY REMOVED AND SADDLE SHALL BE APPLIED DIRECTLY TO THE SEWER LINING.
- 90° FITTINGS ARE PROHIBITED.
- SERVICE LINE TAPS INTO HIGH FLOW TRANSMISSION MAINS SHALL BE MADE VERTICALLY. DETERMINATION TO BE MADE BY THE JWSC.
- BEDDING FOR SANITARY SEWER SERVICE LINES SHALL BE NO. 57 STONE AND SHALL BE INSTALLED, IN ALL CASES, FROM SIX (6) INCHES BELOW THE SUB-GRADE OF THE PIPE TO OVER THE TOP OF THE PIPE IN THE AREA WHERE THE PIPE IS DISTURBED, SEE JWSC TYPICAL DETAILS 3-10A AND 3-11A.
- WHERE C900 IS REQUIRED, ALL FITTINGS SHALL BE C907 DR18 FITTINGS.

NOT TO SCALE



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**SERVICE TAP
CONNECTION**

JWSC 3-8A

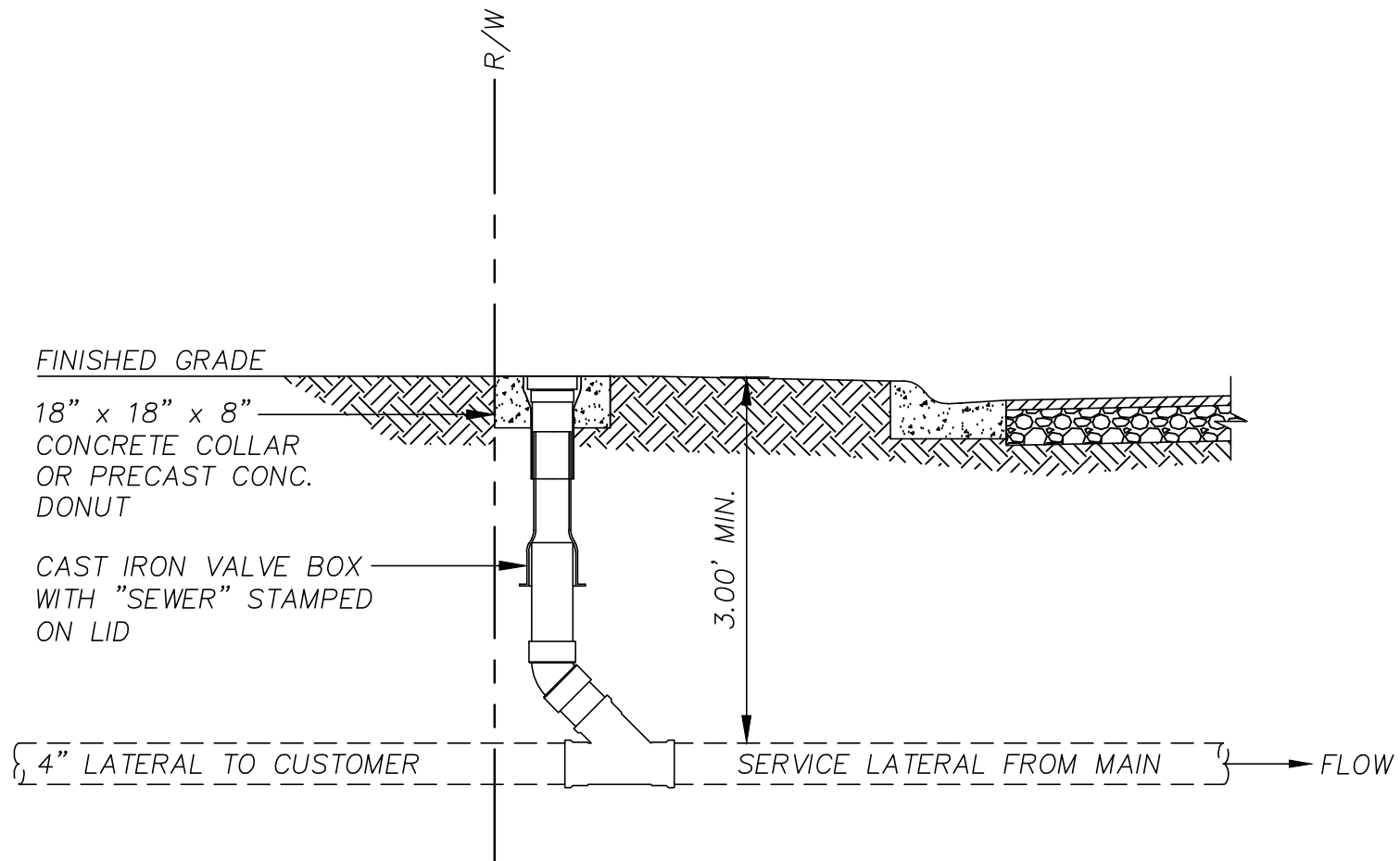
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

1. BOX SHALL BE STAR PIPE PRODUCTS VB562S OR APPROVED EQUAL.
2. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.

NOT TO SCALE



**BRUNSWICK-GLYNN JOINT WATER
& SEWER COMMISSION**

1703 Gloucester Street
Brunswick, Georgia 31520

Website: www.bgjwsc.org

Phone: (912) 261-7110

Fax: (912) 261-7178

**SEWER SERVICE
CLEANOUT**

JWSC 3-9

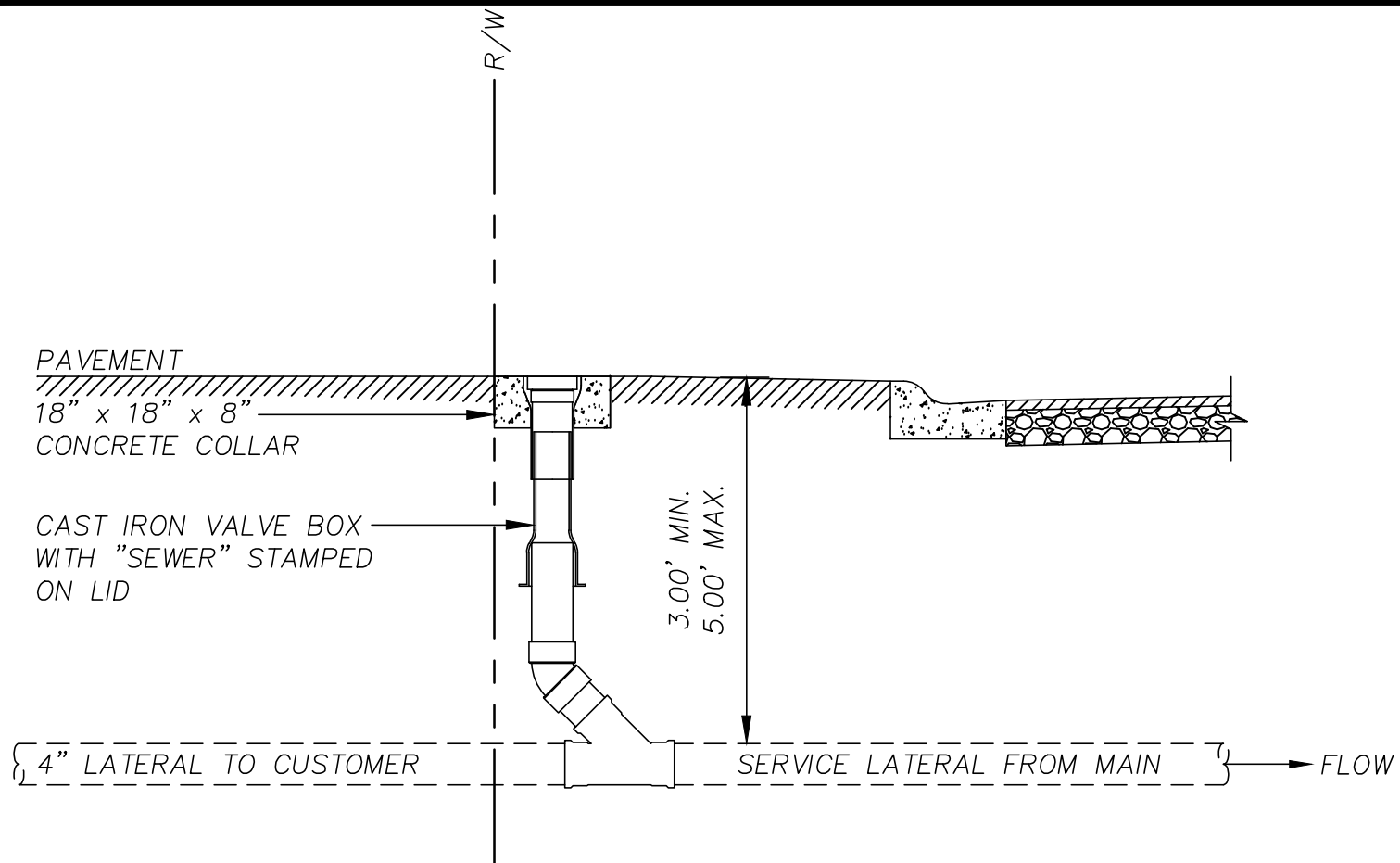
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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GENERAL NOTES:

1. BOX SHALL BE STAR PIPE PRODUCTS VB562S OR APPROVED EQUAL.
2. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.

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**SEWER SERVICE
CLEANOUT (UNDER
PAVEMENT)**

JWSC 3-9A

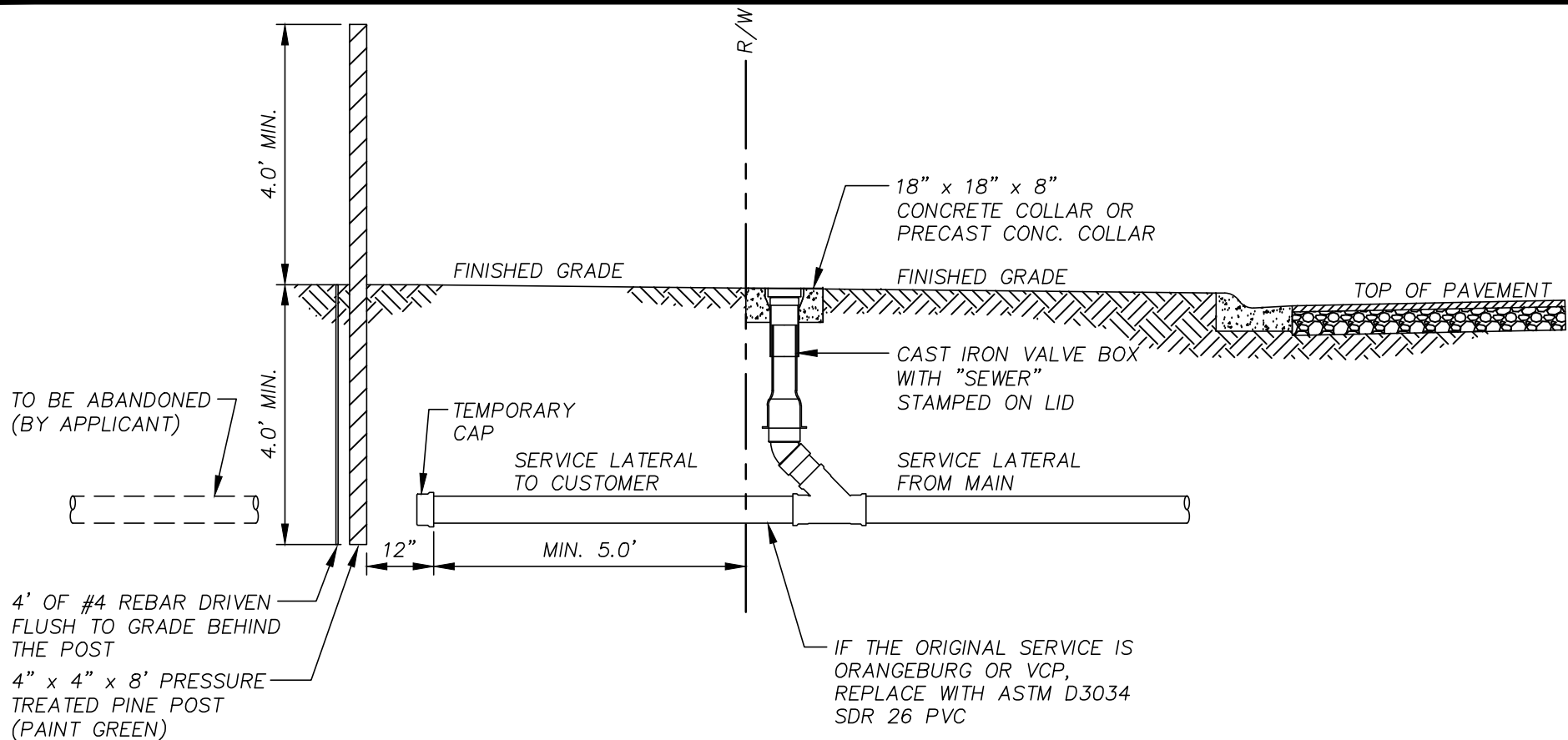
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

1. MINIMUM BURY AT THE R/W IS 3'-0". INSTALL DR18 C900 WHERE MINIMUM BURY DEPTH IS NOT ACHIEVABLE AS DIRECTED BY THE JWSC. PIPE TO BE GREEN IN COLOR.
2. MINIMUM SERVICE FOR COMMERCIAL SITES IS 6" OR AS DIRECTED BY THE JWSC.
3. WHERE C900 IS REQUIRED, ALL FITTINGS SHALL BE C907 DR18 FITTINGS.
4. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.
5. FOR NEW TAP TO EXISTING 15" AND SMALLER GRAVITY MAINS, INSTALL A SSTL DOUBLE STRAPPED SADDLE ON THE MAIN.

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**SEWER SERVICE
ABANDONMENT**

JWSC 3-9B

DESIGNED: BGJWSC

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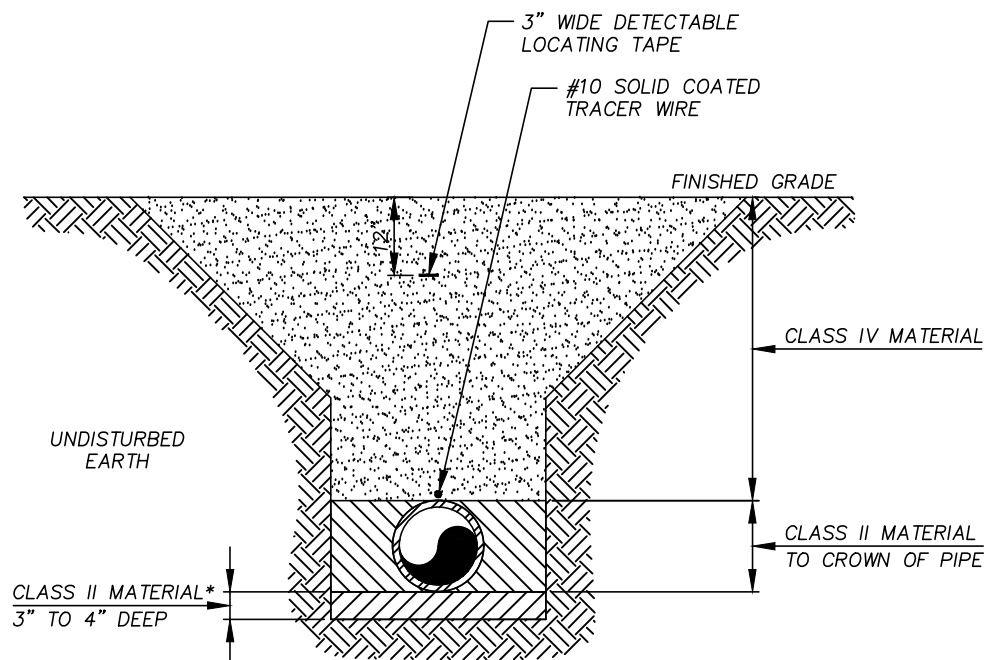
DATE: 05/26/2022

SCALE: NTS

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PIPE BEDDING MATERIALS

CLASS	TYPE	DESCRIPTION
I		MANUFACTURED ANGULAR, GRANULAR MATERIAL, 1/4" TO 1 1/2" SIZE, INCLUDING MATERIALS HAVING REGIONAL SIGNIFICANCE SUCH AS CRUSHED STONE OR ROCK
II	GW	WELL-GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.
	GP	POORLY GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.
	SW	WELL-GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES. MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.
	SP	POORLY GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES. MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.
III	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.
	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.
	SM	SILTY SANDS, SAND-SILT MIXTURES, MORE THAN 50% OF COARSE FRACTION PASSES ON NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.
	SC	CLAYEY SANDS, SAND-CLAY MIXTURES, MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.
	ML	INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS. LIQUID LIMIT 50% OR LESS, 50% OR MORE PASSES NO. 200 SIEVE
IV	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS. LIQUID LIMIT 50% OR LESS, 50% OR MORE PASSES NO. 200 SIEVE
	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDS OR SILTS, ELASTIC SILTS. LIQUID LIMIT GREATER THAN 50%, 50% OR MORE PASSES NO. 200 SIEVE.
	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS. LIQUID LIMIT GREATER THAN 50%, 50% OR MORE PASSES NO. 200 SIEVE.



* CLASS I MATERIALS SHALL BE USED TO PROVIDE AN UNYIELDING FOUNDATION WHERE THE NATURAL TRENCH FOUNDATION IS WEAK.

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TRENCH DETAIL (NON-TRAFFIC AREAS)

JWSC 3-10

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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ROAD REPAIR REQUIREMENTS:

1. JWSC MUST REVIEW ROAD CUT AND APPROVE FINAL DIMENSIONS OF AREA TO BE PAVED PRIOR TO FINAL PAVING. ALL ROAD CUTS MUST BE NEATLY SQUARE CUT AND PERPENDICULAR TO THE LINES AND GENERAL DIRECTION OF THE ROAD WAY AND A MINIMUM OF 12" BEYOND FINAL DISTURBED AREA. ENTIRE WIDTH OF LANE IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE LANE. ENTIRE WIDTH OF ROAD IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE ROAD. ROAD MUST BE REPAIRED AS OUTLINED BELOW PER THE STANDARD JWSC ROAD REPAIR DETAIL WITHIN 30 DAYS AFTER ROAD IS CUT INCLUDING ANY APPLICABLE ROAD STRIPING. COMPACTION TEST IS REQUIRED TO ENSURE 100% COMPACTION OF BACKFILL AND BASE MATERIAL. COMPACTION TEST RESULTS MUST BE FORWARDED TO JWSC REFLECTING TWO RESULTS OF THE BACKFILL AND BASE MATERIAL.

2. CUTS EXCEEDING 150 FEET IN LENGTH, THE BASE MATERIAL SHALL BE BROUGHT FLUSH TO THE BOTTOM OF THE EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAW CUT TO A STRAIGHT EDGE AND THE ENTIRE WIDTH OF THE ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "E" ASPHALT TOPPING.

3. DEPENDING ON THE EXISTING ROAD CONDITION, TIE IN POINTS MAY REQUIRE ADDITIONAL MILLING AND BLENDING AS DETERMINED BY JWSC.

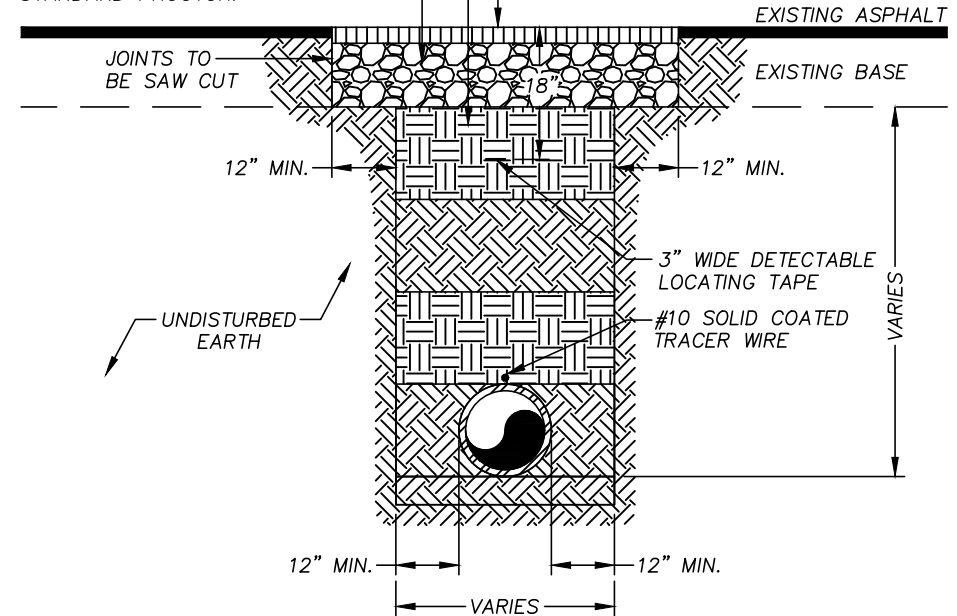
4. DEPENDING ON THE EXISTING ROAD CONDITION AND LOCATION OF THE ROAD CUT, FLOWABLE FILL MAY BE REQUIRED AS BACKFILL MATERIAL. TO BE DETERMINED BY JWSC.

SURFACE COURSE: ASPHALTIC CONCRETE "E" WITH TACK APPLIED WHERE APPLICABLE. DEPTH TO BE DETERMINED DURING PERMIT PROCESS.

BACKFILL: SHALL BE PLACED IN LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND COMPACTED TO 100% STANDARD PROCTOR.

BASE: 10 INCHES OF LIMEROCK OR GAB COMPACTED TO 100% STANDARD PROCTOR.

NOTE: CONCRETE MATERIALS SHALL NOT BE USED ON ASPHALT ROADS



NOTE:

IF THE EXISTING ROAD SURFACE HAS IRREGULARITIES ON EITHER SIDE OF THE PROPOSED STREET CUT AN ASPHALT OVERLAY MAY BE REQUIRED TO MAKE A SMOOTH RIDING SURFACE. ALL IRREGULARITIES IN EXCESS OF 3/16 INCH IN TEN FEET SHALL BE CORRECTED.

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TRENCH DETAIL (TRAFFIC AREAS)

JWSC 3-11

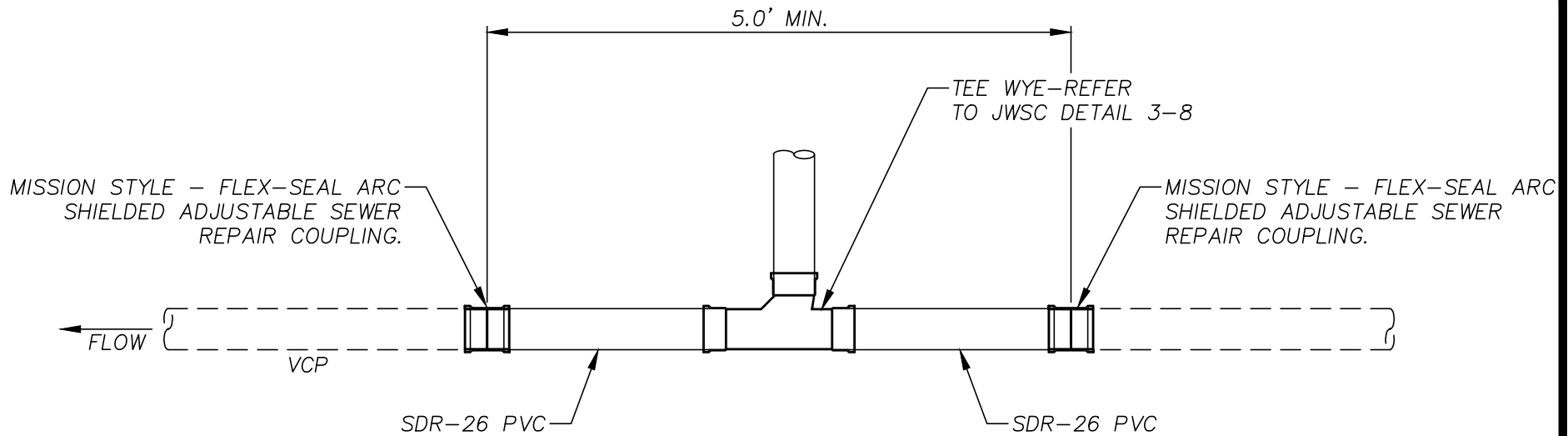
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DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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NOTES:

1. CONTRACTOR TO CUT AND REMOVE A MIN 5.0' SECTION OF THE EXISTING VCP. THE CONTRACTOR MEASURES AND MARKS WHERE THE PIPE NEEDS TO BE CUT. THE CONTRACTOR WILL UTILIZE A RECIPROCATING SAW, HACK SAW, SNAP CUTTER OR ANGLE GRINDER TO ACCOMPLISH THE CUT.
2. CONTRACTOR TO COORDINATE PLUGGING OF ACTIVE SEWER MAINS WITH THE UTILITY INSPECTOR AND SYSTEM PUMPING AND MAINTENANCE. IN SOME CASES A BY-PASS MAY BE REQUIRED.
3. WASTEWATER DISCHARGING INTO THE TRENCH WILL BE COLLECTED BY A VAC-CON STYLE TRUCK AND DISCHARGED AT A JWSC WASTEWATER POLLUTION CONTROL PLANT.

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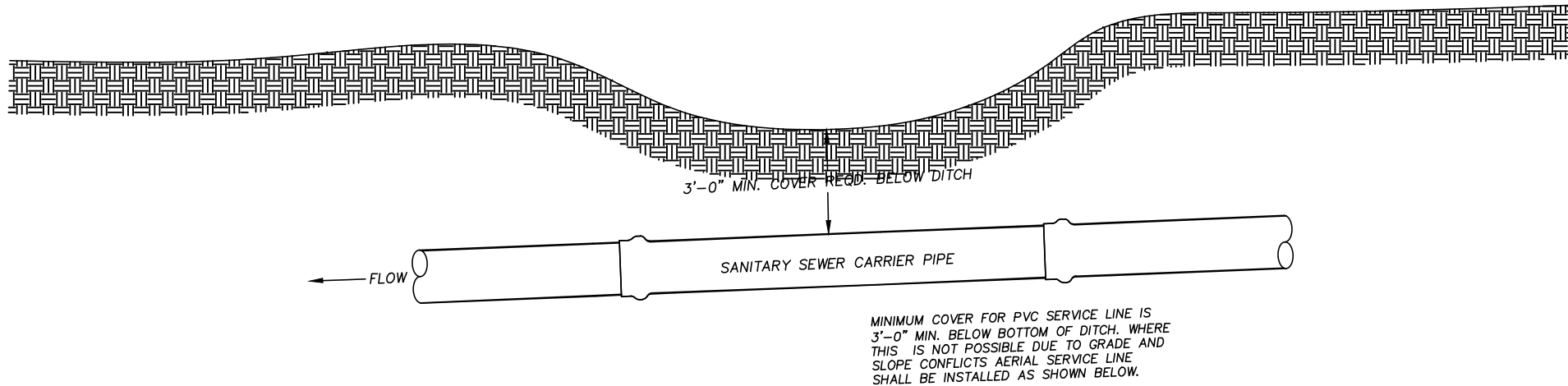
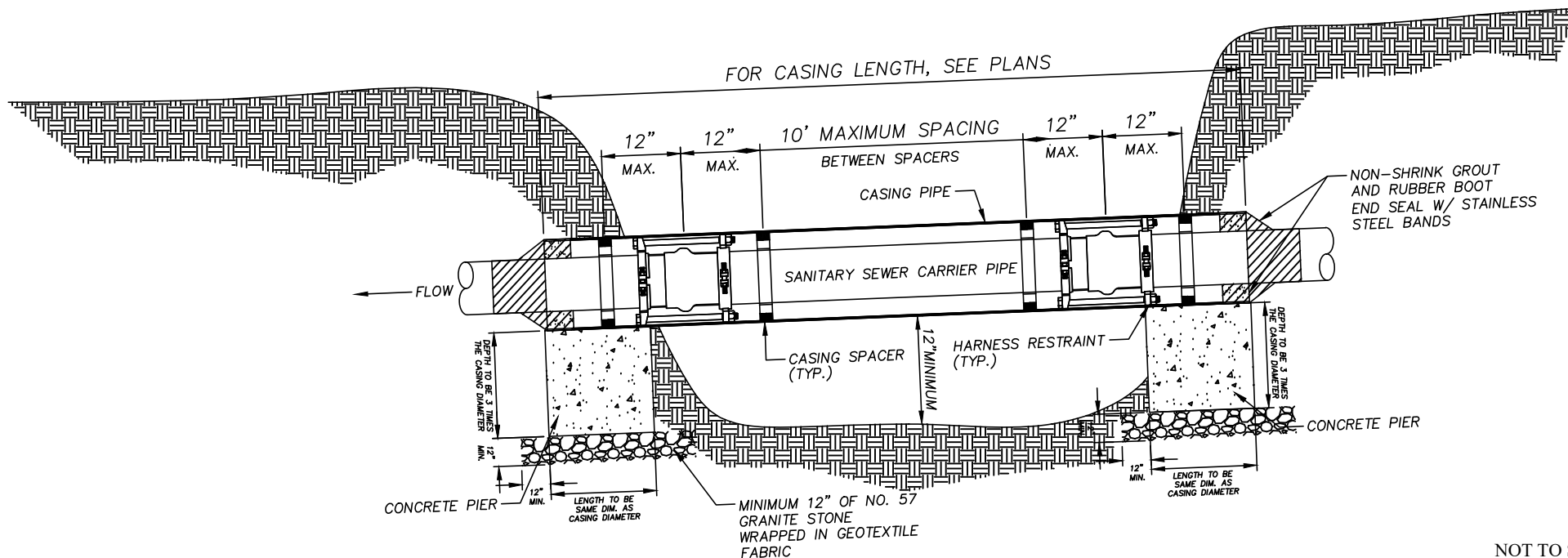
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**SEWER TAP ON
EXISTING VCP**

JWSC 3-12

DESIGNED: BGJWSC DRAWN: HPATEL
DATE: 05/26/2022 SCALE: NTS

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SEWER SERVICE DITCH CROSSING DETAIL

JWSC 3-13

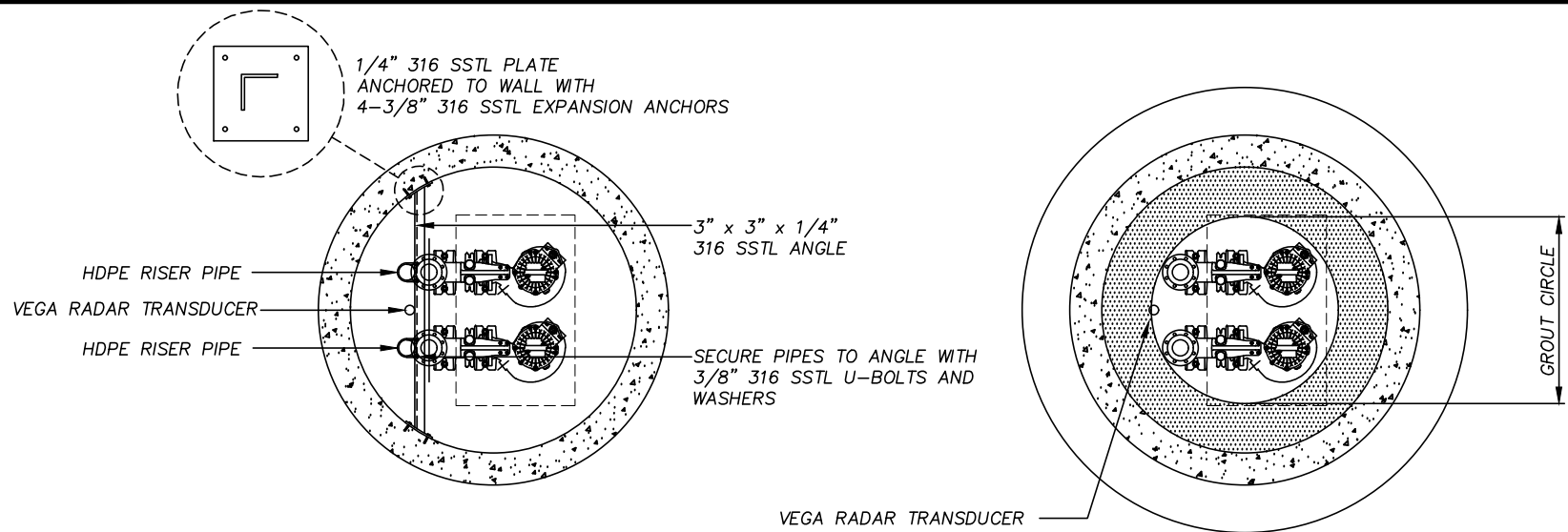
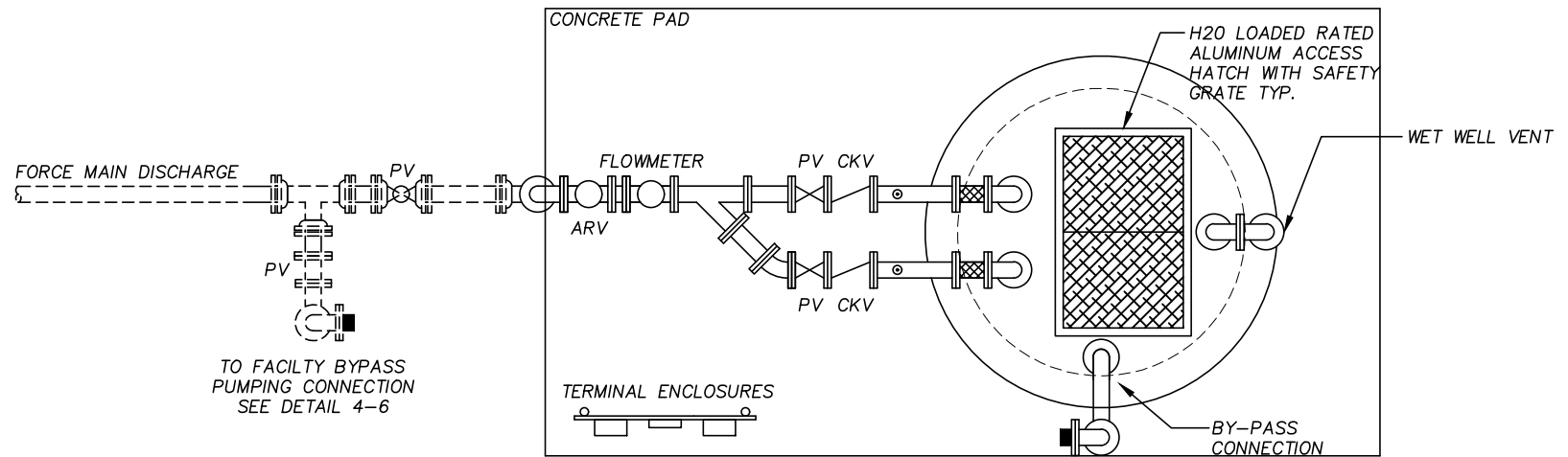
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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SEE ALSO DETAILS
4-2 AND 4-6

NOT TO SCALE



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TYPICAL ABOVE GROUND PUMPING STATION - PLAN

JWSC 4-1

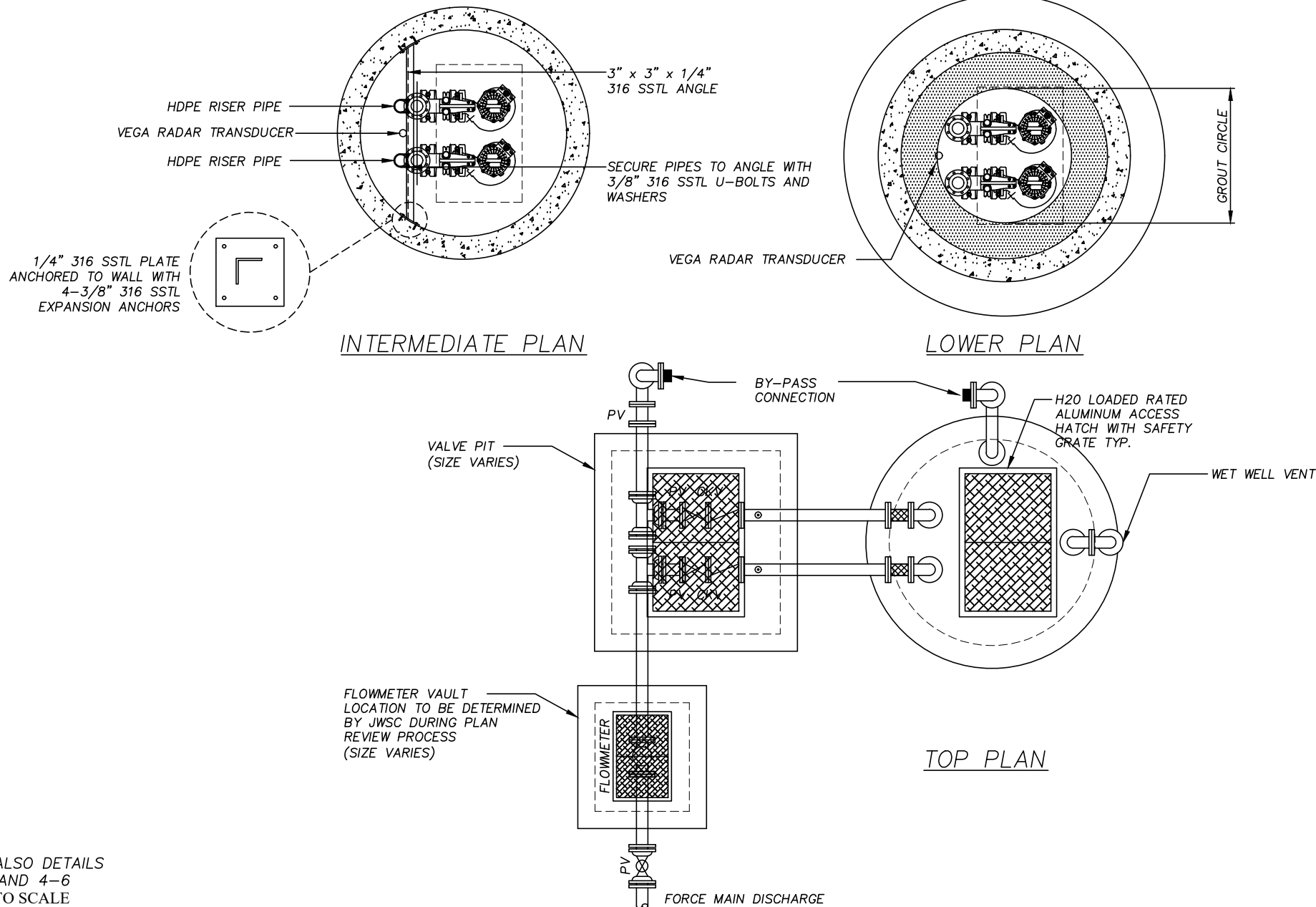
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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SEE ALSO DETAILS
4-2 AND 4-6
NOT TO SCALE



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TYPICAL VALVE PIT PUMPING STATION - PLAN

JWSC 4-1A

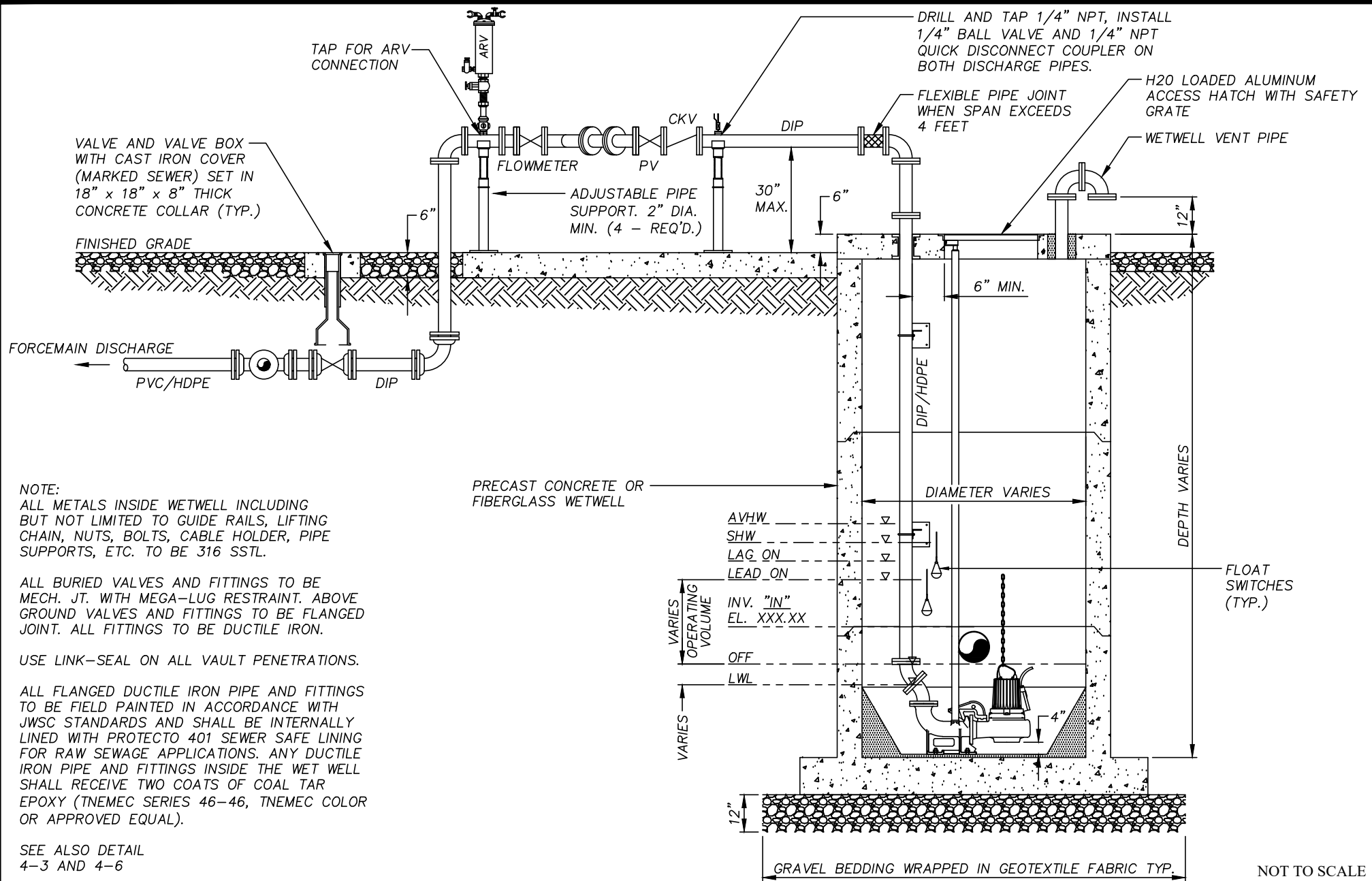
DESIGNED: BGJWSC

DRAWN: HPATEL

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TYPICAL ABOVE GROUND PUMPING STATION - SECTION

JWSC 4-2

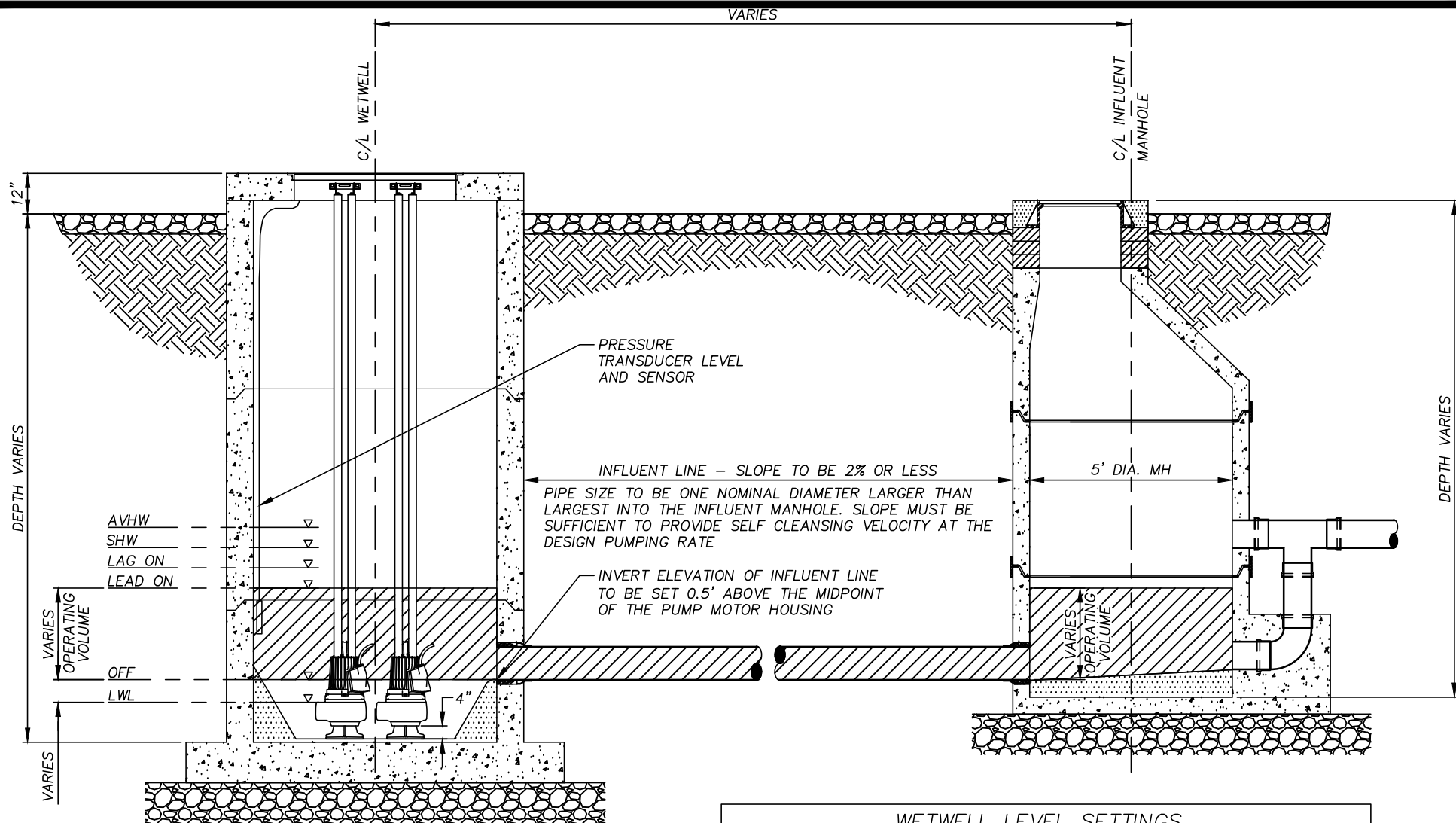
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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WETWELL LEVEL SETTINGS

LWL	LOW WATER LEVEL	TOP OF PUMP VOLUTE
OFF	ALL PUMPS OFF	MID POINT OF MOTOR HOUSING
LEAD ON	LEAD PUMP ON	SEE JWSC DESIGN STANDARDS
LAG ON	LAG PUMP ON	LEAD PUMP ON LEVEL PLUS 6"
SHW	SCADA HIGH WATER LEVEL	LAG PUMP ON LEVEL PLUS 6" (*)
AVHW	AUDIO/VISUAL HIGH WATER LEVEL	SCADA HIGH WATER LEVEL PLUS 6"

(*) IN NO CASE SHALL THE SHW LEVEL BE HIGHER THAN THE INVERT OF THE LOWEST SEWER INTO THE INFLUENT MANHOLE.



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INFLUENT MANHOLE WETWELL LEVEL SETTINGS

JWSC 4-3

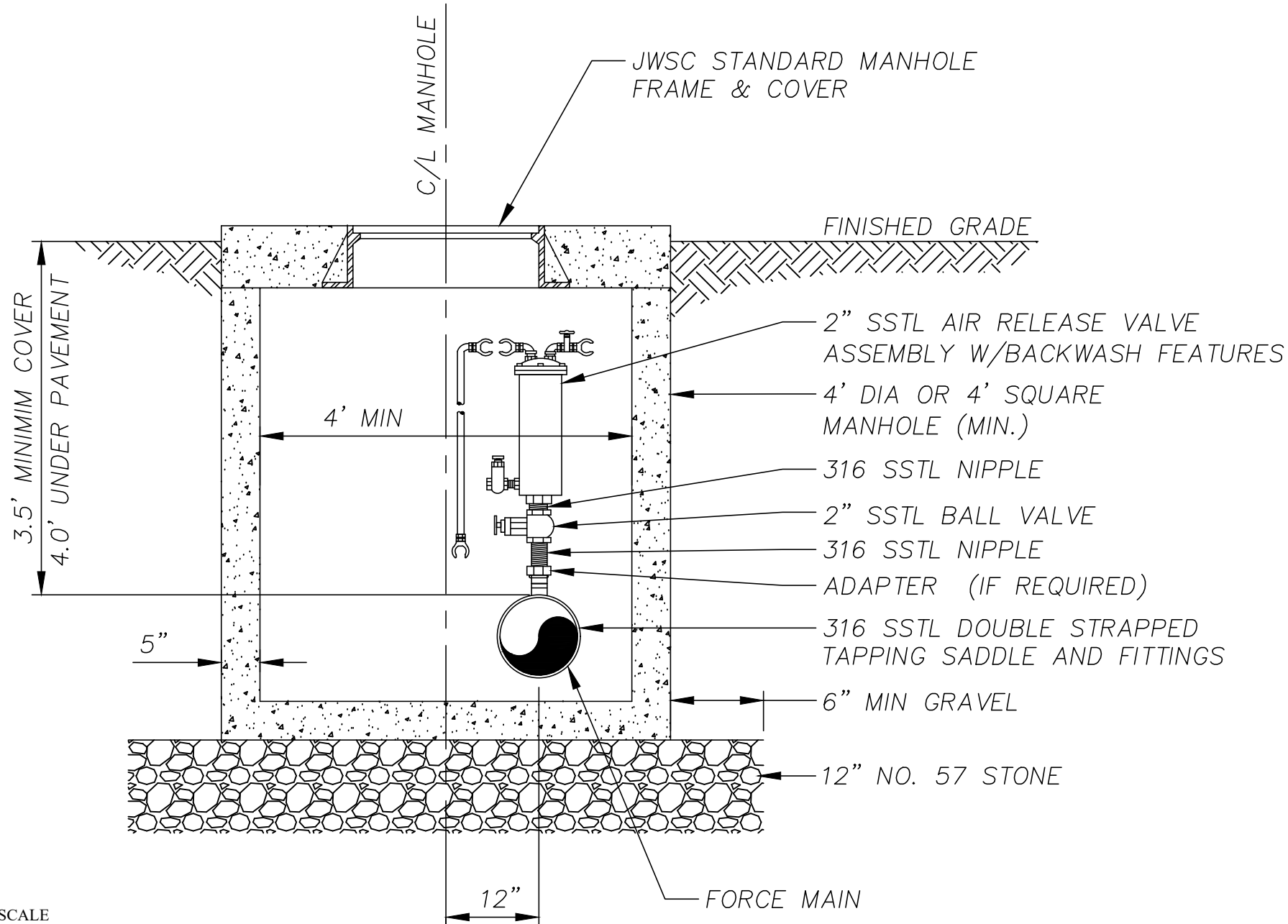
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

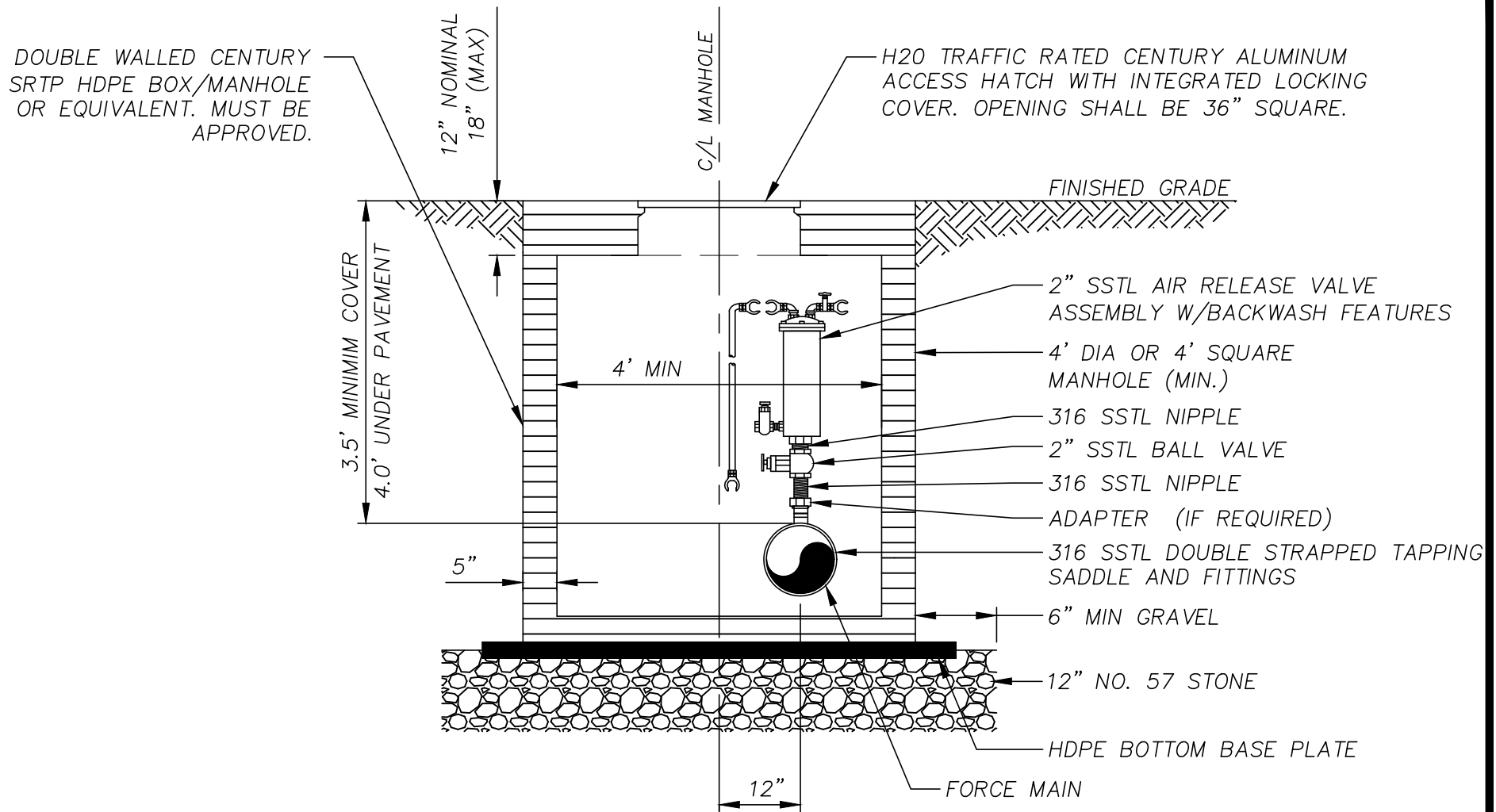
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1703 Gloucester Street
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ARV MANHOLE

	BY	REVISION	DATE
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NOTES:

1. THE ACCESS HATCH SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT PER JWSC STANDARDS.
2. IN WET AREAS INSTALL A FLOTATION RING AS REQUIRED.

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**ARV HDPE
BOX/MANHOLE**

JWSC 4-4A

DESIGNED: BGJWSC

DRAWN: HPATEL

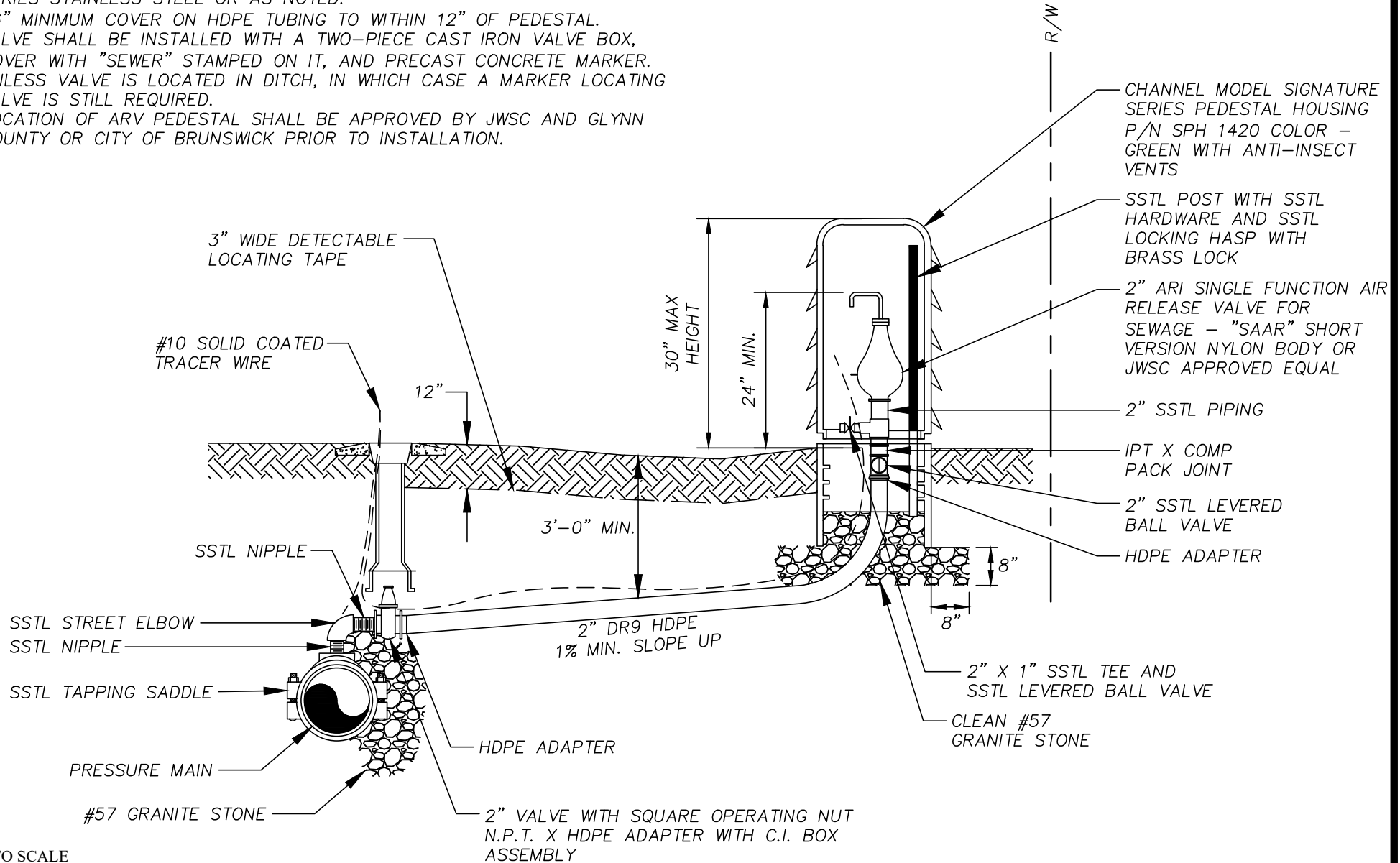
DATE: 05/26/2022

SCALE: NTS

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NOTES:

1. PIPING, NIPPLES, PLUGS & BALL VALVES AND TAPPING SADDLES TO BE 316 SERIES STAINLESS STEEL OR AS NOTED.
2. 36" MINIMUM COVER ON HDPE TUBING TO WITHIN 12" OF PEDESTAL.
3. VALVE SHALL BE INSTALLED WITH A TWO-PIECE CAST IRON VALVE BOX, COVER WITH "SEWER" STAMPED ON IT, AND PRECAST CONCRETE MARKER. UNLESS VALVE IS LOCATED IN DITCH, IN WHICH CASE A MARKER LOCATING VALVE IS STILL REQUIRED.
4. LOCATION OF ARV PEDESTAL SHALL BE APPROVED BY JWSC AND GLYNN COUNTY OR CITY OF BRUNSWICK PRIOR TO INSTALLATION.



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SEWER AIR RELEASE VALVE PEDESTAL ASSEMBLY DETAIL

JWSC 4-4B

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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2" SLEEVE AND TOP
OF STILLING WELL

FINISHED GRADE

24"

HEIGHT VARIES
ANCHOR SECURELY WITH
PUMP DISCHARGE PIPE

24"
SLOTTED

12"

SET LEVEL WITH
PUMP INTAKE

6" PVC STILLING WELL

NOTE:

THIS STILLING WELL DETAIL TO BE
USED ONLY WHERE INDICATED AND
WHERE TRANSDUCER IS USED IN
LIEU OF FLOAT SWITCHES.

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TRANSDUCER STILLING WELL

JWSC 4-5

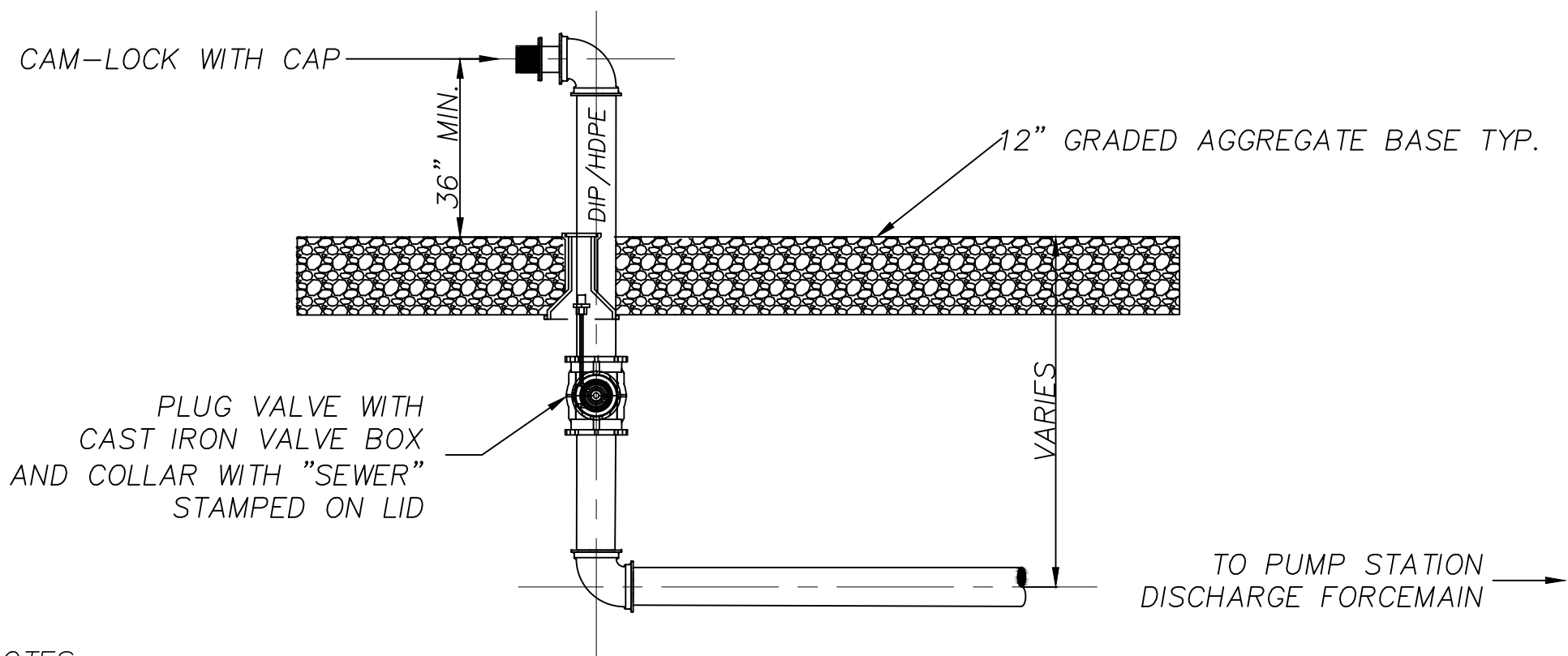
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DATE: 05/26/2022

SCALE: NTS

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NOTES:

1. CONTRACTOR TO SUPPLY T-HANDLE WRENCH. (1) PER EMERGENCY QUICK CONNECT.
- 2 .BYPASS PIPING TO BE PROTECTO 401 COATED DIP WITH MEGA-LUG RESTRAINT ON ALL FITTINGS.

NOT TO SCALE



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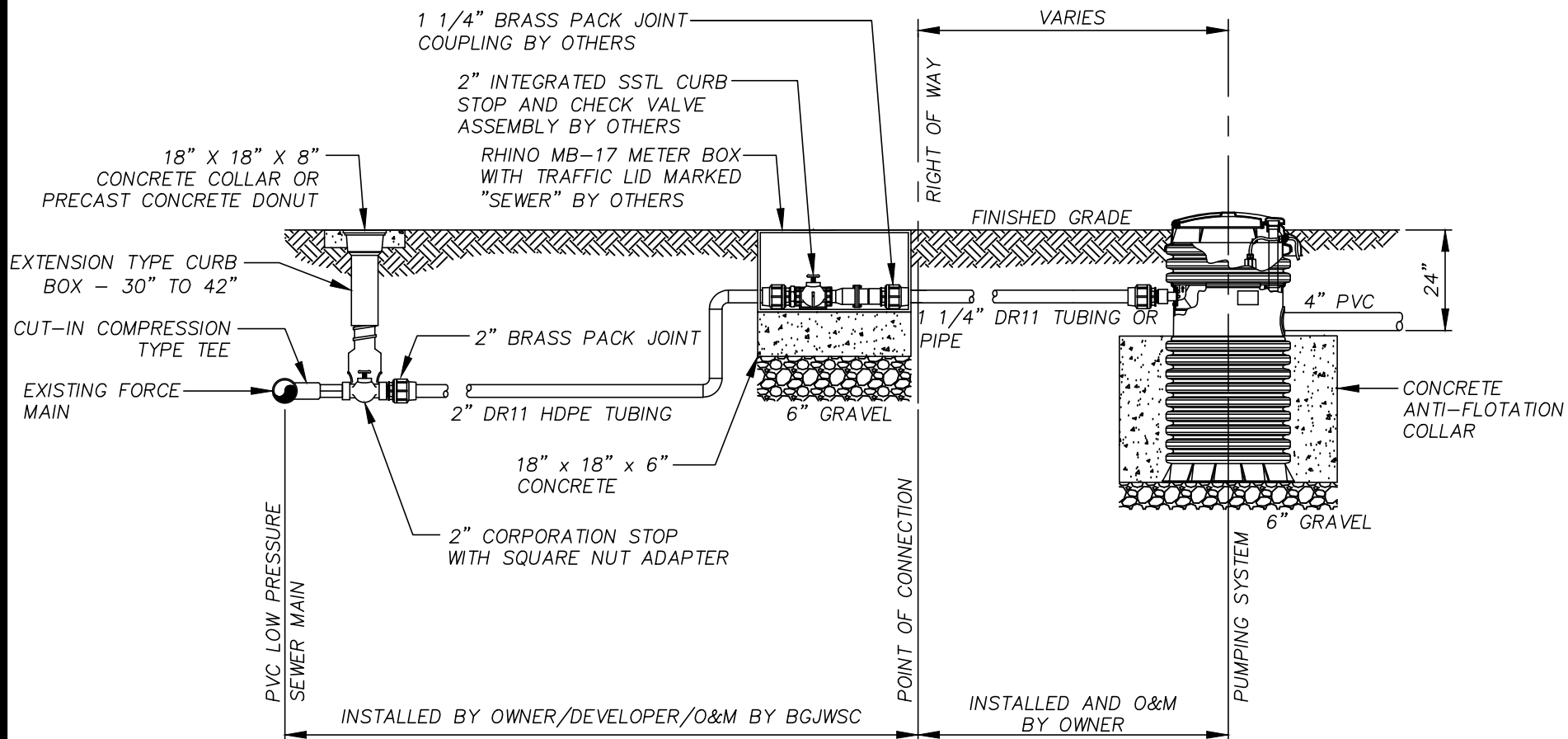
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**FACILITY BYPASS
PUMPING CONNECTION**

JWSC 4-6

DESIGNED: BGJWSC	DRAWN: HPATEL
DATE: 05/26/2022	SCALE: NTS

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NOTES:

1. THE 2" INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE E/ONE PART NUMBER NC044P301, NC0517G01 OR A PREVIOUSLY APPROVED EQUAL.
2. THE BOX HOUSING THE INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE A RHINO MB-17 WITH TRAFFIC RATED LID MARKED SEWER OR PREVIOUSLY APPROVED EQUAL.
3. SEE WATER AND SEWER ORDINANCE 2-16-8(2)(d) FOR OWNER INSTALLATION RESPONSIBILITIES.

PUMPING SYSTEM TO BE A COMPLETELY FACTORY ASSEMBLED SIMPLEX GRINDER PUMPING STATION SPECIFICALLY DESIGNED FOR USE IN LOW PRESSURE SEWER SYSTEMS INCLUDING HOLDING TANK, ANTI-FLOTATION COLLARS, MEDIUM TO HIGH HEAD GRINDER PUMP, WITH LEVEL CONTROL SYSTEM AND CONTROL PANEL. HIGH HEAD GRINDER PUMPS (FLOWS TO 28 GPM AND HEADS TO 200 FEET) MAY BE USED UNIVERSALLY THROUGHOUT THE SYSTEM. DEPENDING UPON THE LOCATION WITHIN THE SYSTEM, MEDIUM HEAD GRINDER PUMPS MAY BE USED AS A COST SAVING MEASURE BUT IN NO CASE SHALL THE MOTOR HORSEPOWER BE LESS THAN 1.0. PUMP MANUFACTURERS SPECIALIZING IN EQUIPMENT USED IN LOW PRESSURE SEWER SYSTEMS CAN PROVIDE THE NECESSARY DESIGN ASSISTANCE IN THE SELECTION OF A SUITABLE PUMP.

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LOW PRESSURE SYSTEM ONSITE SERVICE CONNECTION

JWSC 4-7

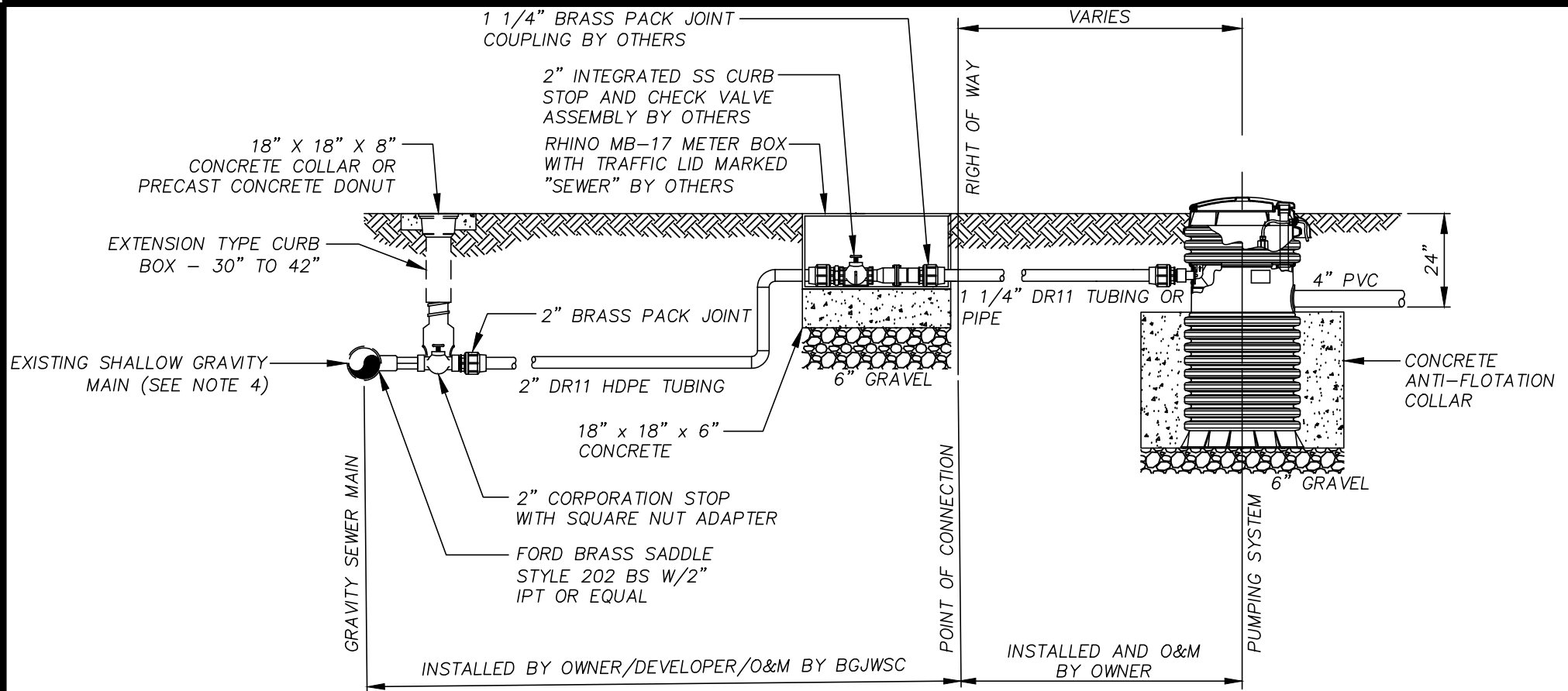
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DRAWN: HPATEL

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SCALE: NTS

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NOTES:

1. THE 2" INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE E/ONE PART NUMBER NC0443P01, NC0517G01 OR A PREVIOUSLY APPROVED EQUAL.
2. THE BOX HOUSING THE INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE A RHINO MB-17 WITH TRAFFIC RATED LID MARKED SEWER OR PREVIOUSLY APPROVED EQUAL.
3. SEE WATER AND SEWER ORDINANCE 2-16-8(2)(d) FOR OWNER INSTALLATION RESPONSIBILITIES.
4. HIS APPLICATION IS FOR LPFM CONNECTIONS TO GRAVITY MAINS WITH INADEQUATE COVER TO INSTALL A SANITARY SEWER SERVICE LATERAL PER JWSC DETAIL 3-8A.

PUMPING SYSTEM TO BE A COMPLETELY FACTORY ASSEMBLED SIMPLEX GRINDER PUMPING STATION SPECIFICALLY DESIGNED FOR USE IN LOW PRESSURE SEWER SYSTEMS INCLUDING HOLDING TANK, ANTI-FLOTATION COLLARS, MEDIUM TO HIGH HEAD GRINDER PUMP, WITH LEVEL CONTROL SYSTEM AND CONTROL PANEL. HIGH HEAD GRINDER PUMPS (FLOWS TO 28 GPM AND HEADS TO 200 FEET) MAY BE USED UNIVERSALLY THROUGHOUT THE SYSTEM. DEPENDING UPON THE LOCATION WITHIN THE SYSTEM, MEDIUM HEAD GRINDER PUMPS MAY BE USED AS A COST SAVING MEASURE BUT IN NO CASE SHALL THE MOTOR HORSEPOWER BE LESS THAN 1.0. PUMP MANUFACTURERS SPECIALIZING IN EQUIPMENT USED IN LOW PRESSURE SEWER SYSTEMS CAN PROVIDE THE NECESSARY DESIGN ASSISTANCE IN THE SELECTION OF A SUITABLE PUMP.

NOT TO SCALE



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LOW PRESSURE SYSTEM SERVICE CONNECTION TO GRAVITY MAINS

JWSC 4-7A

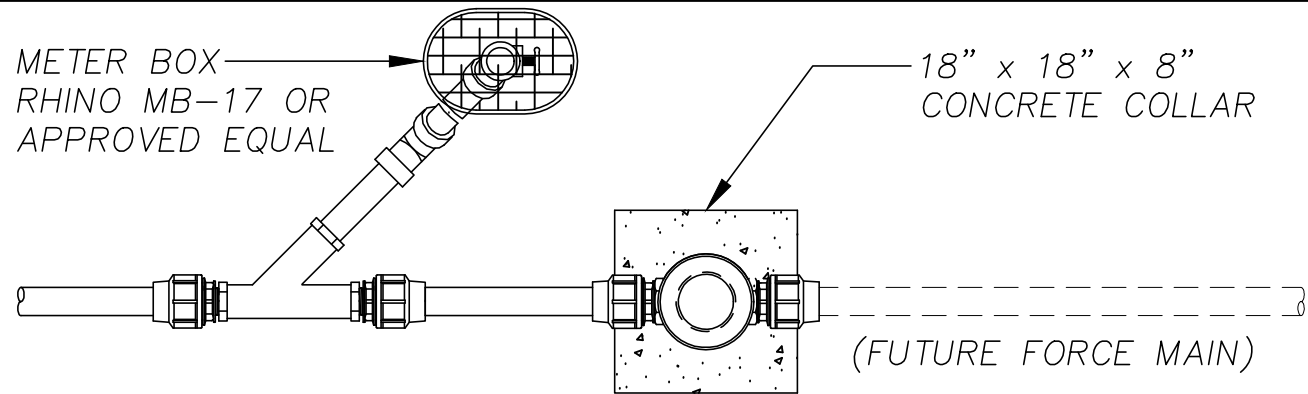
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DRAWN: HPATEL

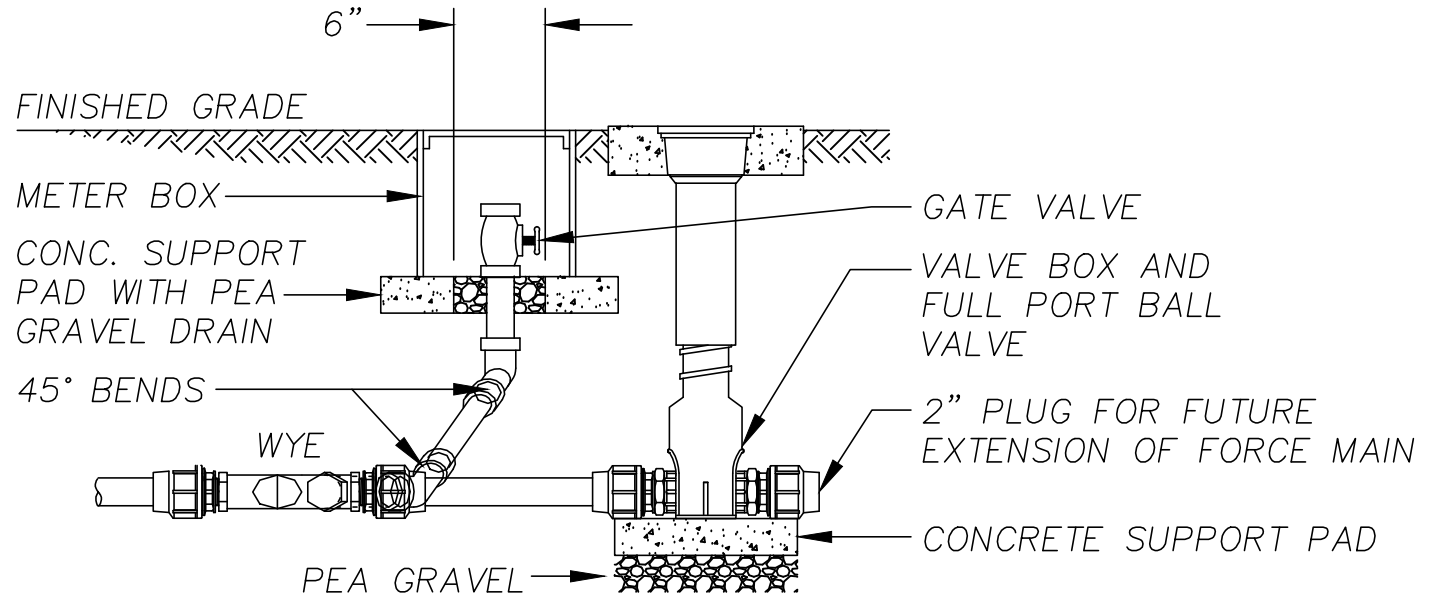
DATE: 05/26/2022

SCALE: NTS

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PLAN VIEW



SECTION

NOT TO SCALE

NOTE: FLUSH CONNECTIONS
SHALL BE INSTALLED IN
500' INTERVALS.



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LOW PRESSURE SYSTEM FLUSH CONNECTION

JWSC 4-8

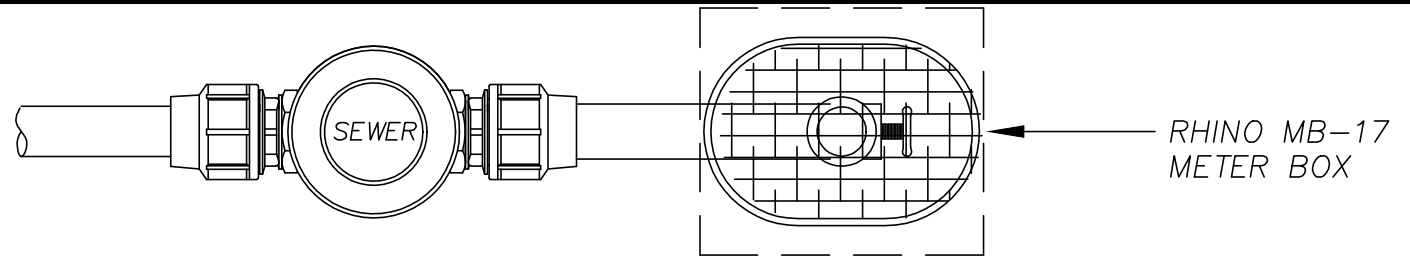
DESIGNED: BGJWSC

DRAWN: HPATEL

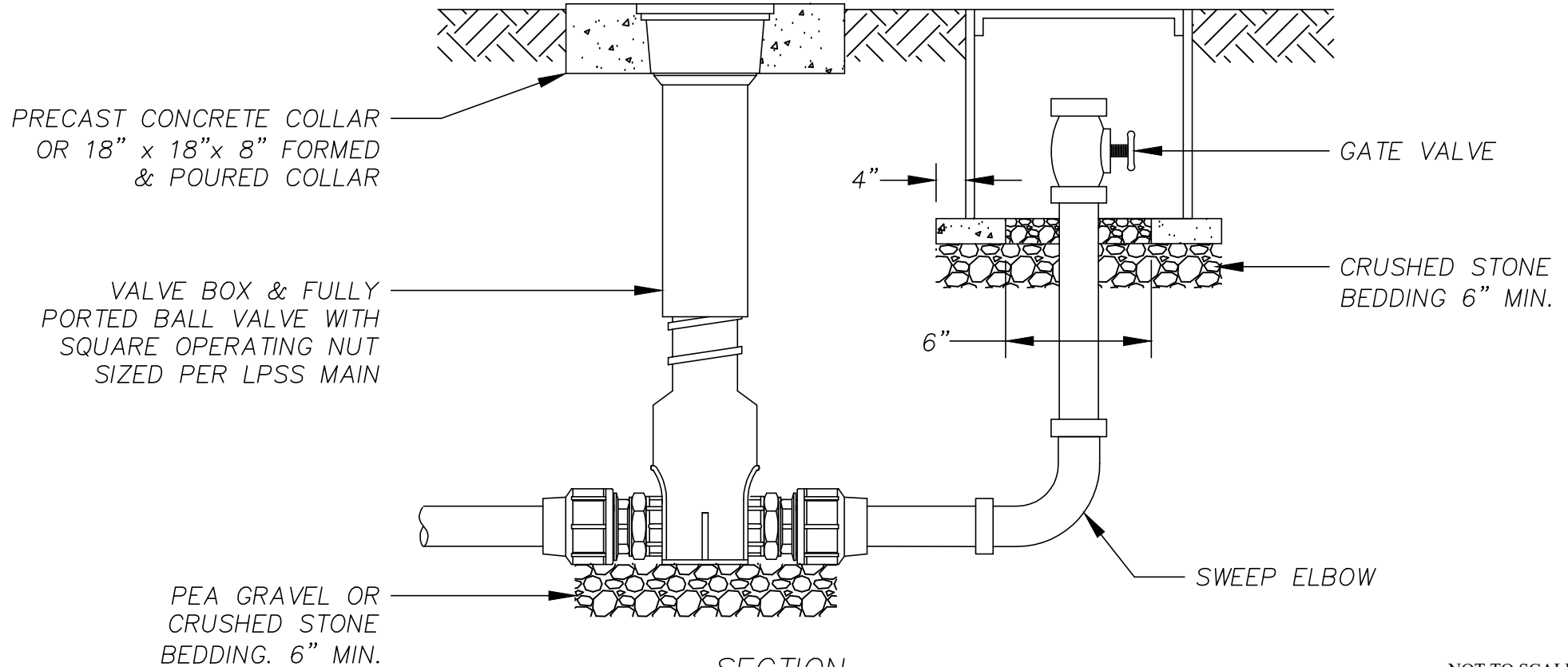
DATE: 05/26/2022

SCALE: NTS

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PLAN VIEW



SECTION

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TYPICAL TERMINAL FLUSH CONNECTION

JWSC 4-8A

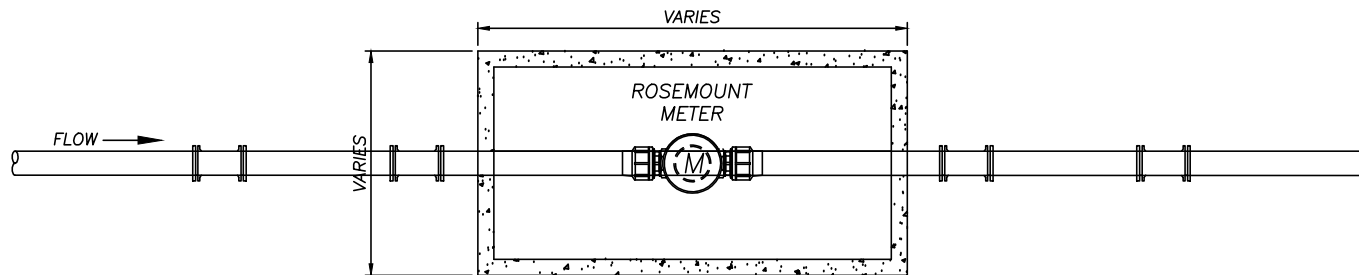
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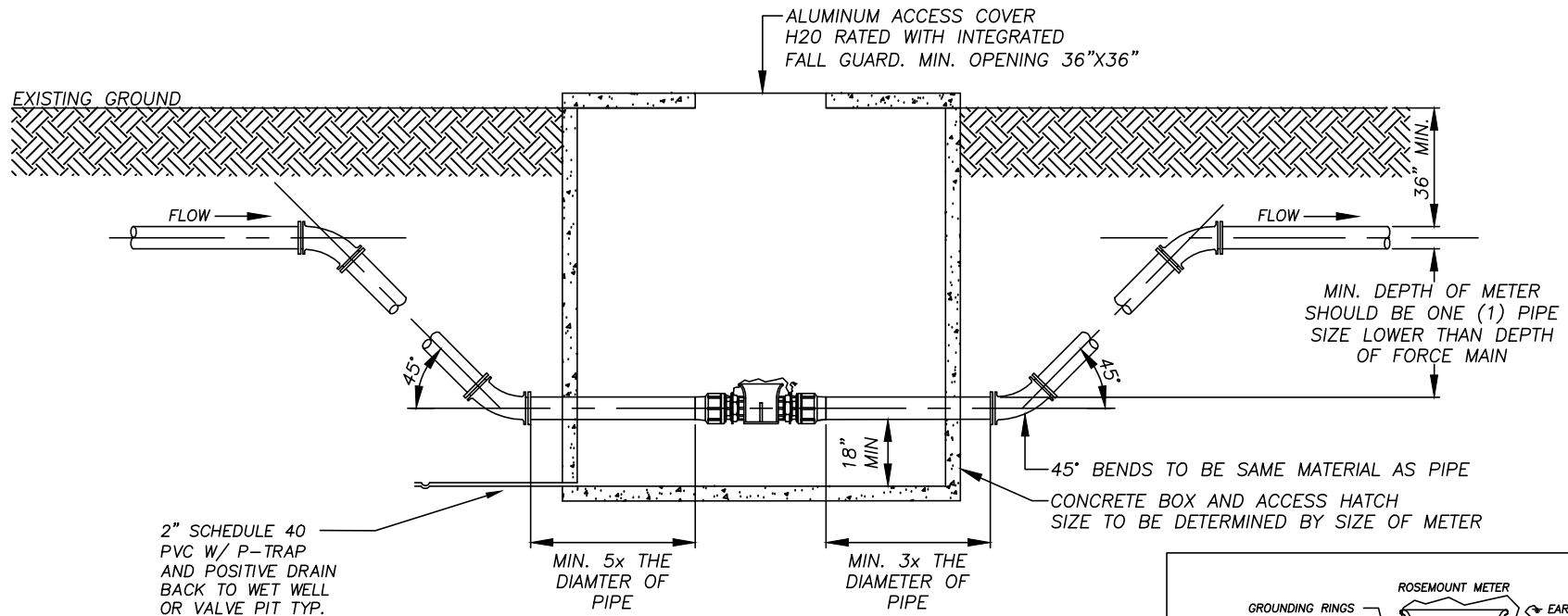
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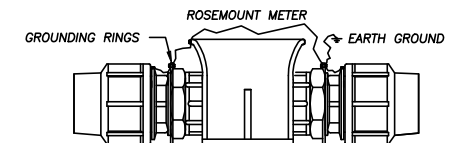
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PLAN VIEW



SECTION



NOTES:
METER INSTALLATION PER
MANUFACTURER'S RECOMMENDATION
NOT TO SCALE



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ROSEMOUNT METER DETAIL

JWSC 4-9

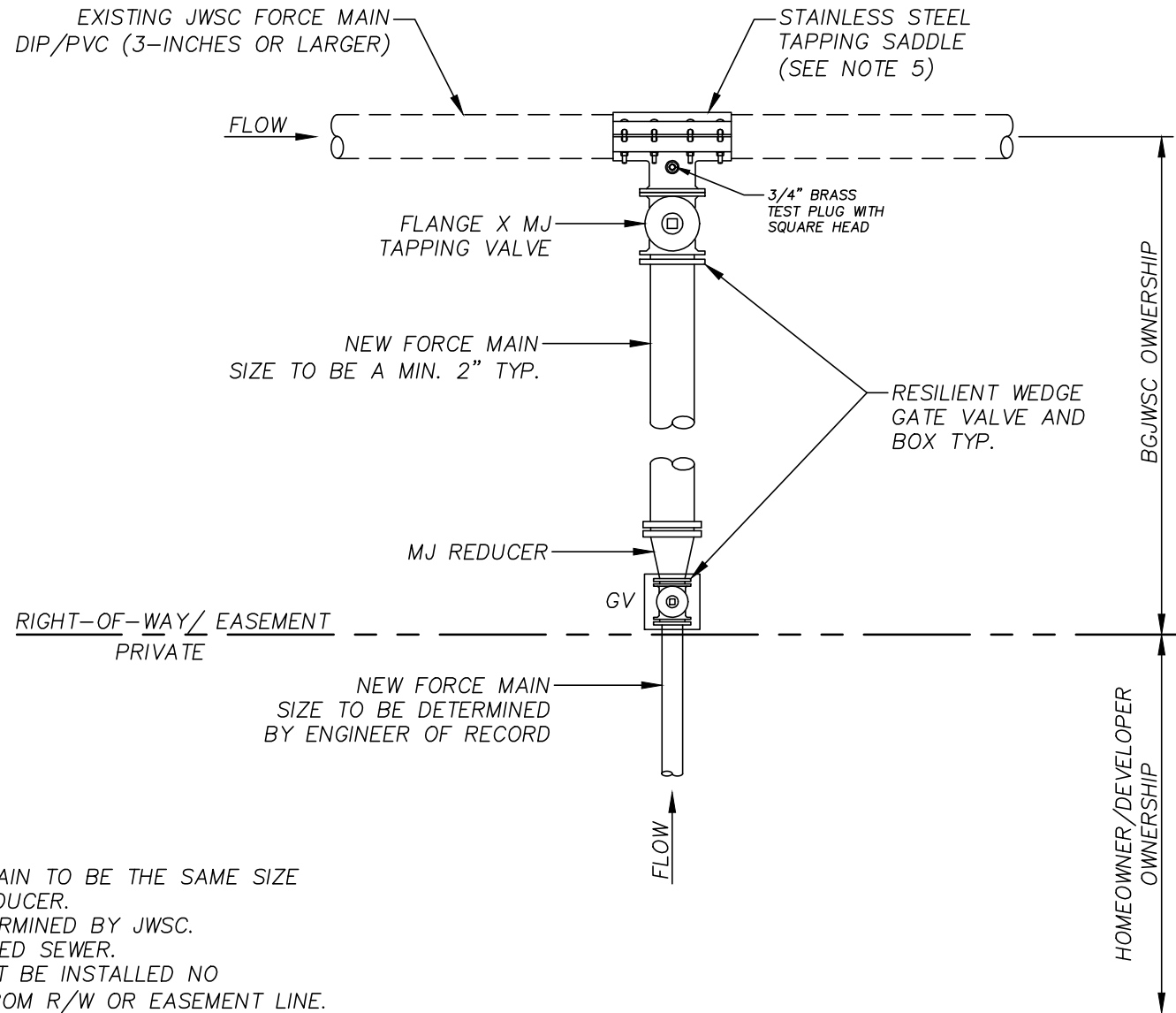
DESIGNED: BGJWSC

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DATE: 05/26/2022

SCALE: NTS

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NOTE:

1. BRANCH VALVE AND NEW FORCE MAIN TO BE THE SAME SIZE AS EXISTING FORCE MAIN UPTO REDUCER.
2. DIRECTION OF BRANCH TO BE DETERMINED BY JWSC.
3. ALL VALVE BOX LIDS TO BE STAMPED SEWER.
4. RESILIENT WEDGE GATE VALVE MUST BE INSTALLED NO GREATER THAN +/- 12-INCHES FROM R/W OR EASEMENT LINE.
5. SADDLE FOR TAPS 2" AND SMALLER SHALL BE EPOXY COATED DUCTILE IRON BODY, DOUBLE STRAPPED TYPE WITH NPT SERVICE OUTLET. RUBBER GASKET RING, TWO ALLOY STEEL STRAPS, AWWA C800 FEMALE IRON PIPE TAP.

NOT TO SCALE



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**FORCE MAIN
CONNECTION TO
EXISTING FORCE MAIN -
3" OR LARGER**

JWSC 4-10

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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EXISTING GRADE

MIN. 2" LOW PRESSURE
SEWER LINE — DR9 HDPE

3' MIN.

SSTL STRAP
24" O.C.

FORCE MAIN
DISCHARGE
MANHOLE

INSTALL RUBBER BOOT WITH
CLAMPS. FILL VOID AREA
WITH NON-SHRINK GROUT

NO INVERT
MANHOLE

GRAVITY
SEWER

12" (TYP.)

GENERAL NOTES:

COAT INTERIOR OF THE MANHOLE
WITH HYDROGEN SULFIDE RESISTANT
CEMENTITIOUS PRODUCT(S)
CONTAINING CALCIUM ALUMINATES.

NOT TO SCALE



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**TYP. DROP CONNECTION
LPFM IN DEAD END
MANHOLE**

JWSC 4-11

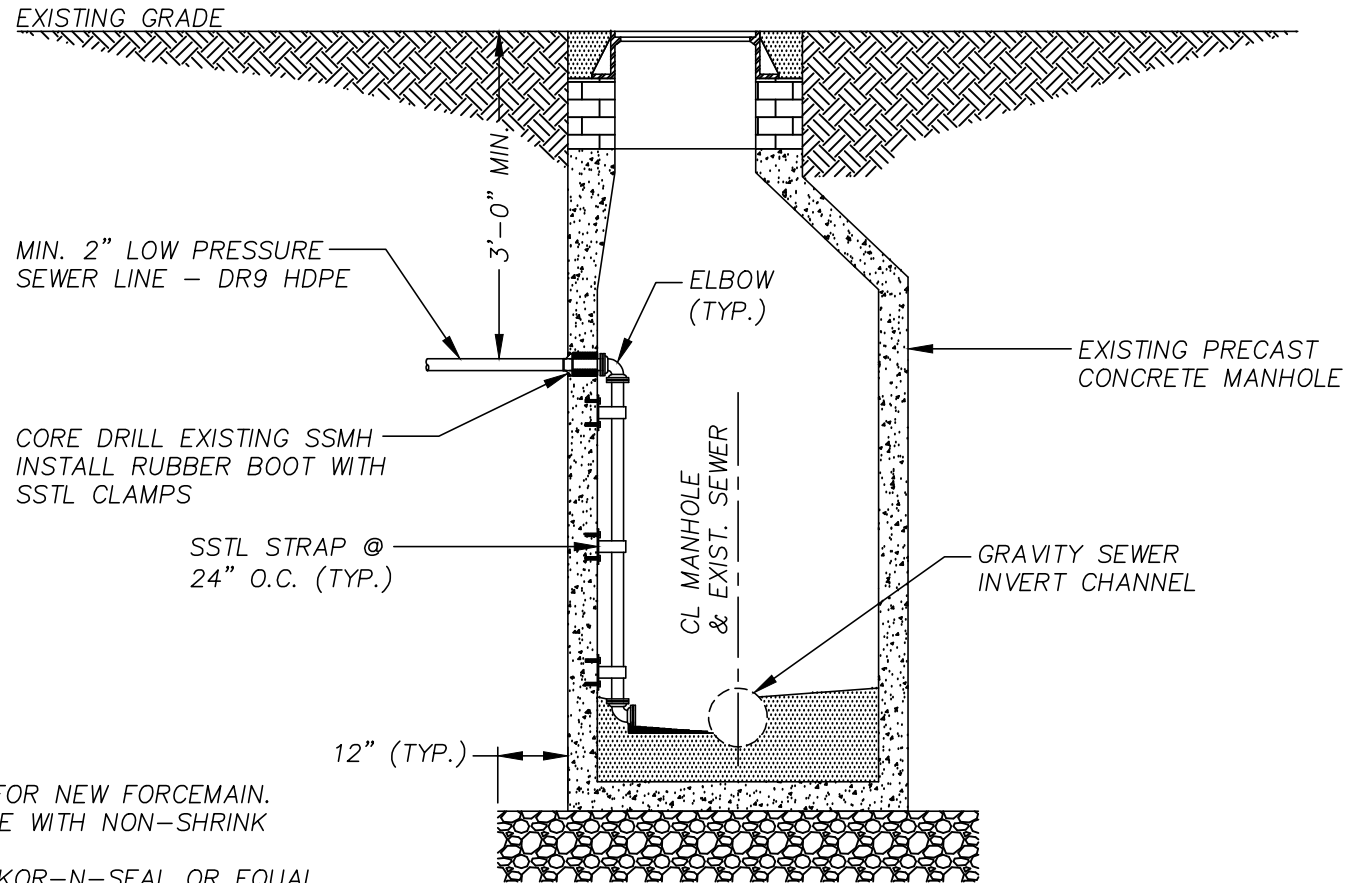
DESIGNED: BGJWSC

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DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

1. CORE OPENING IN EXISTING WALL FOR NEW FORCEMAIN. FILL ANNULAR SPACE AROUND PIPE WITH NON-SHRINK GROUT.
2. PROVIDE FLEXIBLE RUBBER BOOT, KOR-N-SEAL OR EQUAL
3. PROVIDE MJ 90° BEND WITH RESTRAINED JOINTS WHERE SHOWN.
4. PROVIDE MJ 90° BASE BEND WITH RESTRAINED JOINTS WHERE SHOWN.
5. MODIFY AND REPAIR MANHOLE INVERTS AS REQUIRED TO ACCOMMODATE FORCEMAIN CONNECTIONS.
6. CONNECT PIPE TO WALL OF MANHOLE WITH STAINLESS STEEL SUPPORT AND ANCHOR BOLTS.
7. COAT INTERIOR OF THE MANHOLE WITH A HYDROGEN SULFIDE RESISTANT CEMENTITIOUS PRODUCT CONTAINING CALCIUM ALUMINATES.

NOT TO SCALE



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**LPFM INSIDE DROP
MANHOLE SECTION**

JWSC 4-11A

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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DEFINITIONS

GEC - GROUNDING ELECTRODE
CONDUCTOR PER NEC TABLE 250.66

BONDING JUMPER – PER NEC TABLE 250
102(C)(1)

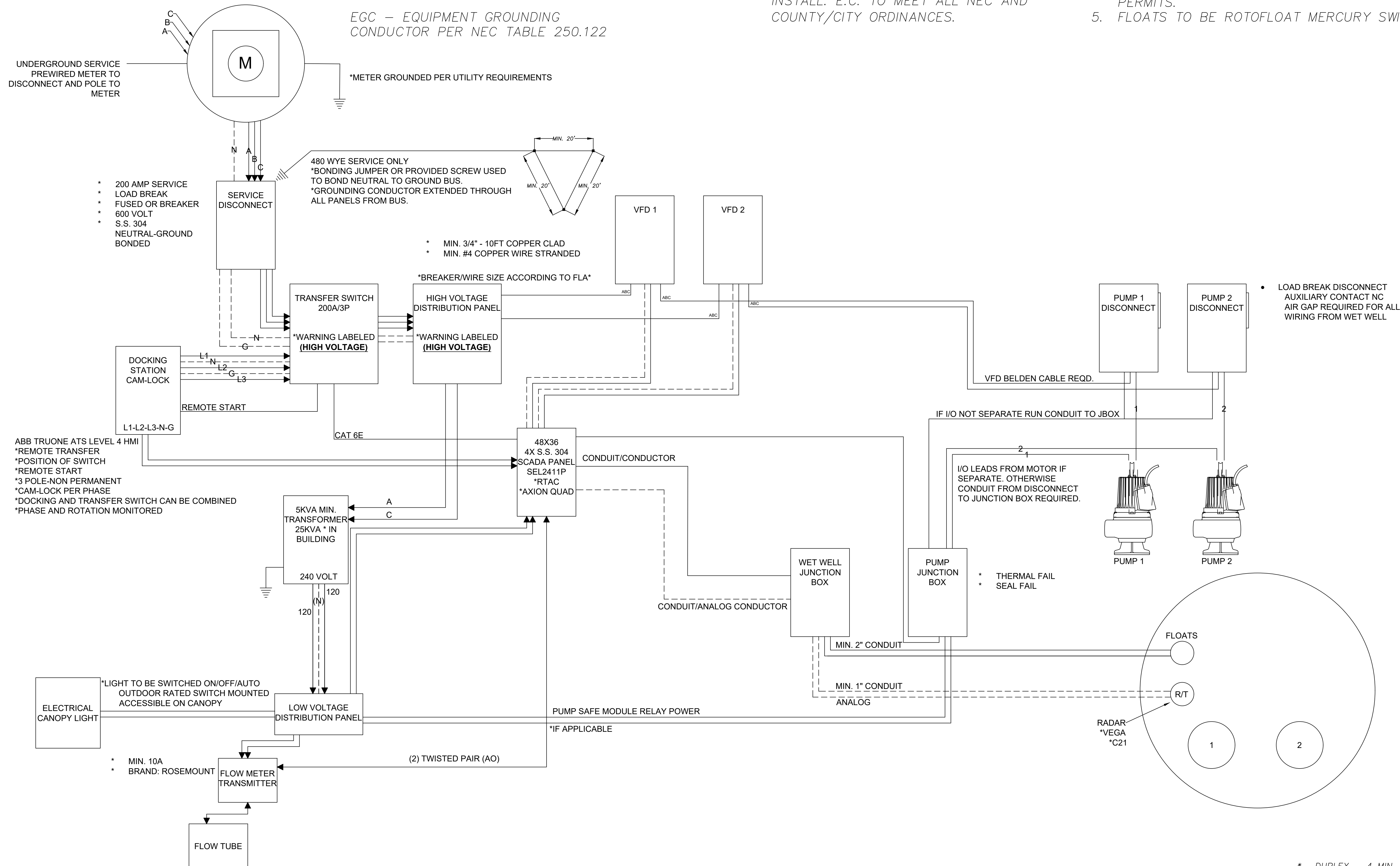
EGC - EQUIPMENT GROUNDING
CONDUCTOR PER NEC TABLE 250.122

200AMP - 480 SERVICE
 DUPLEX - 90AMP 40HP. MAX..

ALL RATINGS BASED ON NEC AT TIME OF CREATION. JWSC RECOMMENDS TO FOLLOW LATEST NEC CODES DURING INSTALL. E.C. TO MEET ALL NEC AND COUNTY/CITY ORDINANCES.

GENERAL NOTES

1. 40% CONDUIT FILL
2. MIN 3/4 SIZE CONDUIT
3. ALL WORK TO BE PERFORMED IN ACCORDANCE TO THE CURRENT NEC EDITION.
4. CONTRACTOR REQUIRED TO ACQUIRE ALL REQUIRED PERMITS.
5. FLOATS TO BE ROTOFLOAT MERCURY SWITCH.



* DUPLEX - 4 MIN. FLOATS
4-FLOATS; OFF, LEAD, LAGI, HIGH

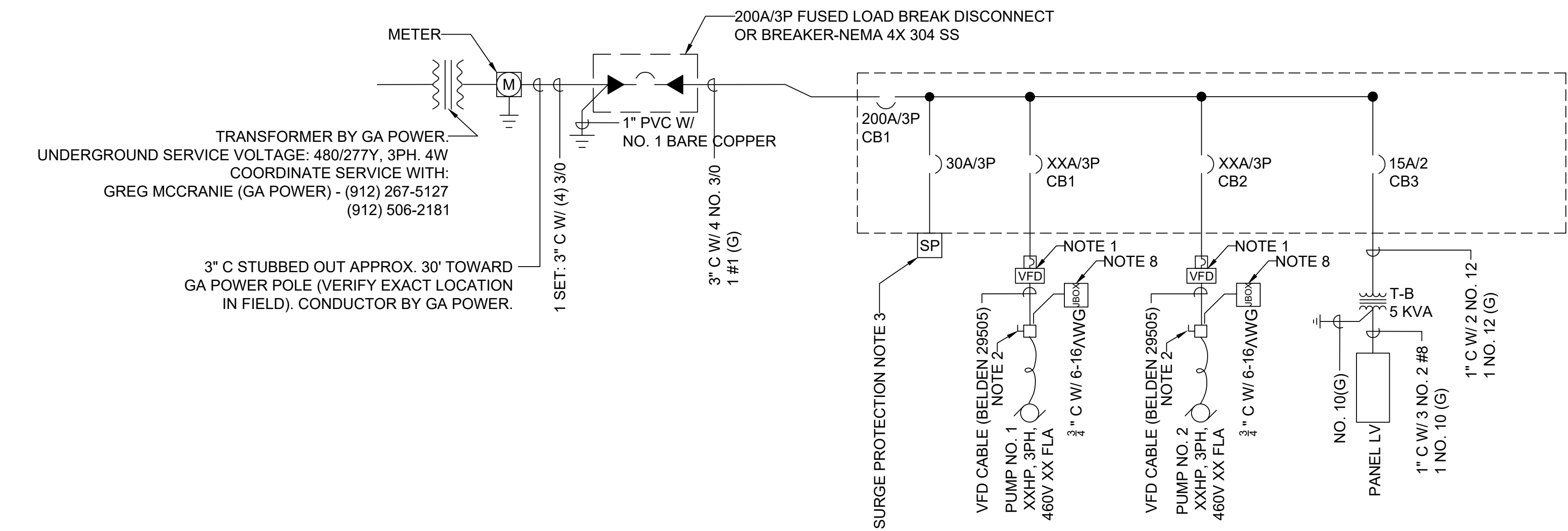


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CALL BEFORE YOU DIG!
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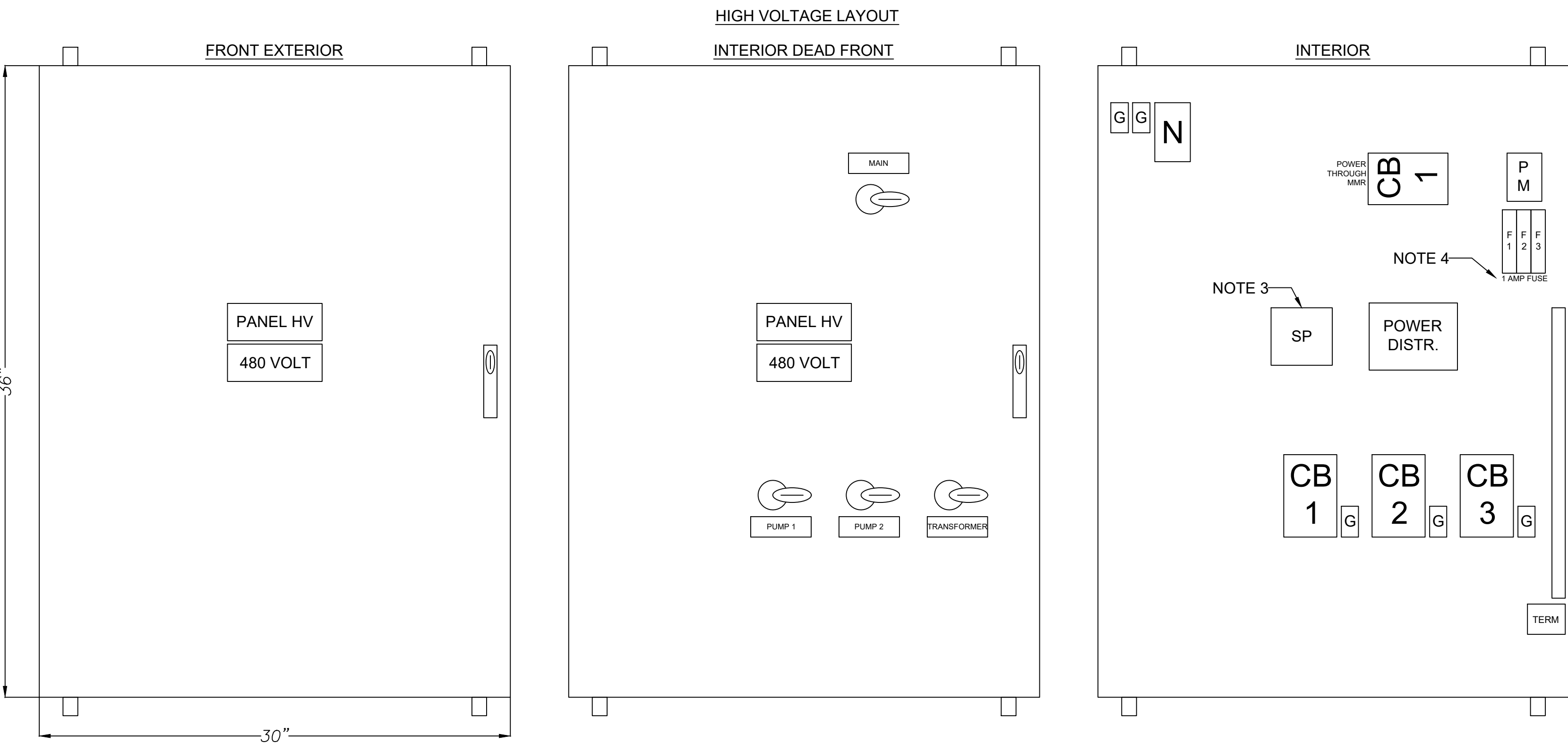
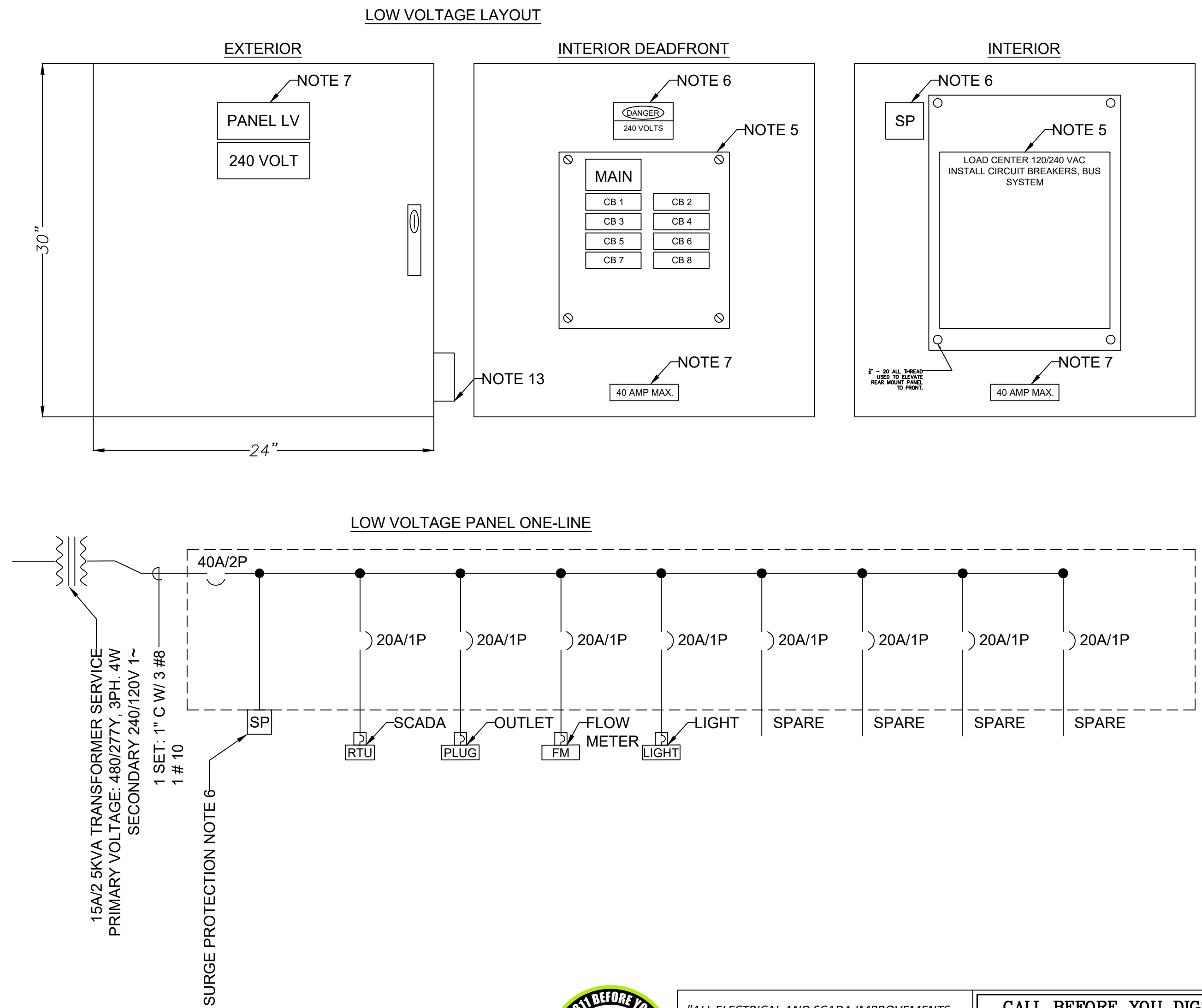
FILE NO.: JWSO PROJ #2109 DATE: MAR 27, 2023 SCALE: NTS DRAWN BY:		PROJECT NAME GLYNN COUNTY, GEORGIA BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION		NO.: DATE: 12-13-2022 REVISIONS - D. GRANTHAM - - - - -		COMMENTS: REVISIONS - D. GRANTHAM - - - - -		BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION PLANNING & CONSTRUCTION DIVISION 1703 Gloucester Street Brunswick, Georgia 31520 (912) 261-7110 Phone (912) 261-7175 Fax www.bgjwsc.org			
SHEET NO.:		JWSO INTER-CONNECTING DIAGRAM VFD		REVISONS							

ALL SHEETS ARE REQUIRED TO BE STAMPED AND SIGNED BY ELECTRICAL P.E.



GENERAL NOTES

1. ALL STARTERS TO BE VFD AS SPECIFIED.
2. PUMP DISCONNECT – 100A LOAD BREAK S.S. 304 W/AUX CONTACTS WHICH SHALL INTERRUPT VFD RUN CIRCUIT BEFORE SWITCH OPENS.
3. SURGE PROTECTION TO BE EQUIVALENT TO SQUARE D. SDSA-3650 SURGE ARRESTOR.
4. PHASE MONITOR TO BE FUSED WITH 1 AMP IN LINE FUSES. MODEL NO. PMPU MACROMATIC
5. SQUARE D QO PANEL INSTALLED INSIDE A STAINLESS STEEL ENCLOSURE W/ ALUMINUM DEAD FRONT AND RAISED REAR PANEL. DEAD FRONT CUT TO ALLOW BREAKER PASS THROUGH AND USAGE.
6. SURGE PROTECTOR TO BE EQUIVALENT TO SQUARE D. SDSA-1175.
7. SIGNS ON PANELS TO BE MADE OF PLASTIC, ENGRAVED AND GLUED ON.
8. DISCONNECT TO JBOX FOR PUMP IO CABLE. T.B. REQUIRED IN DISCONNECT FOR PUMP CABLE TO TERMINATE.
9. WIRE TO BE SIZED FOR BREAKER CURRENT PROTECTION, BASED ON PUMP AND DESIGN SIZING.
10. STANDARD 5KVA NEMA 3R TRANSFORMER.
11. ALL PANELS TO BE PAD LOCKABLE AND A HAVE 3-POINT LATCH SYSTEM.
12. NEMA 4X DANFOSS VFD FC-202 WITH 10 YEAR MANUFACTURER WARRANTY.
13. GFCI OUTLET WITH IN USE BUBBLE COVER, MOUNTED TO LOWER RIGHT EXTERIOR EDGE OF LOW VOLT PANEL.



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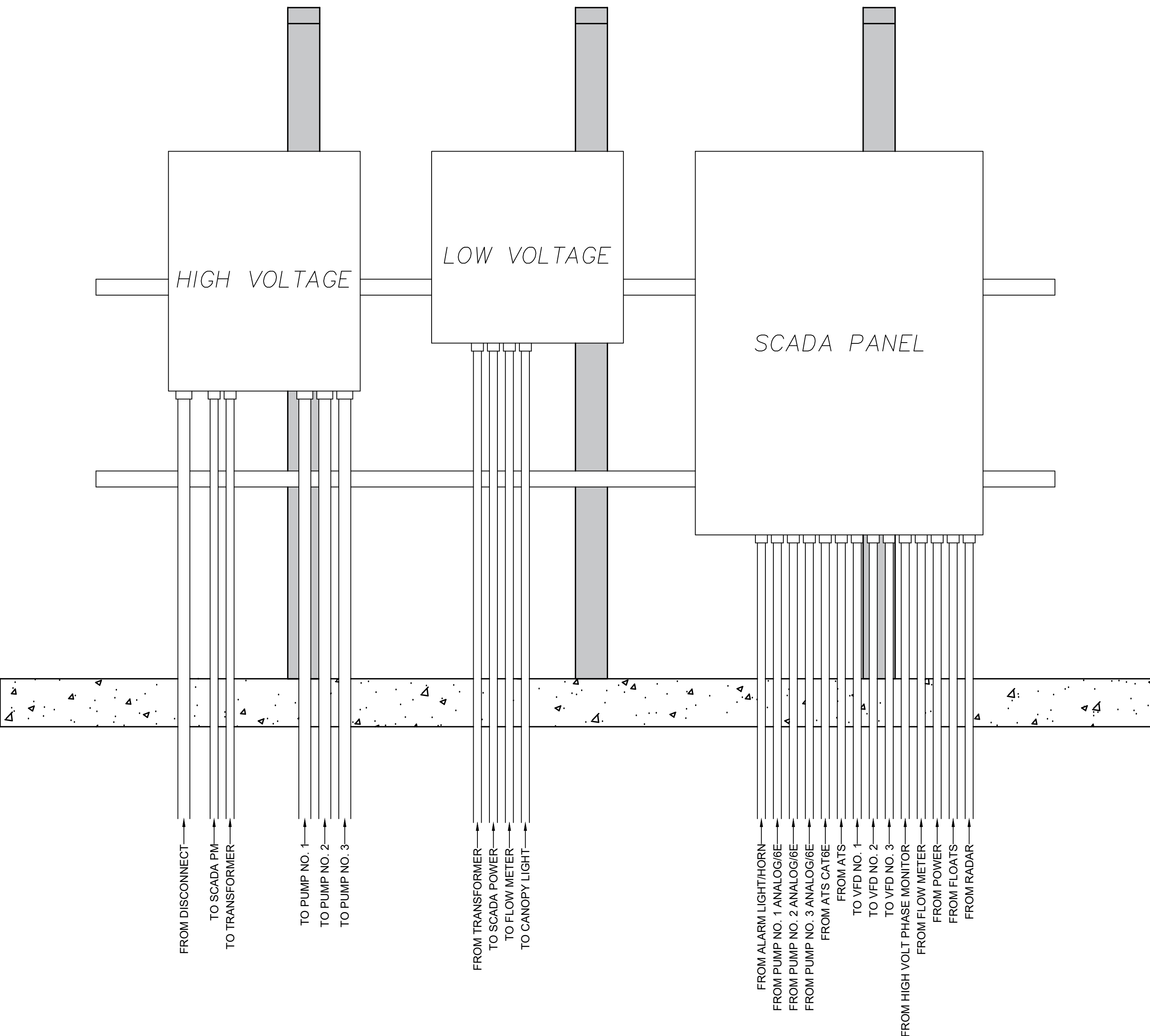
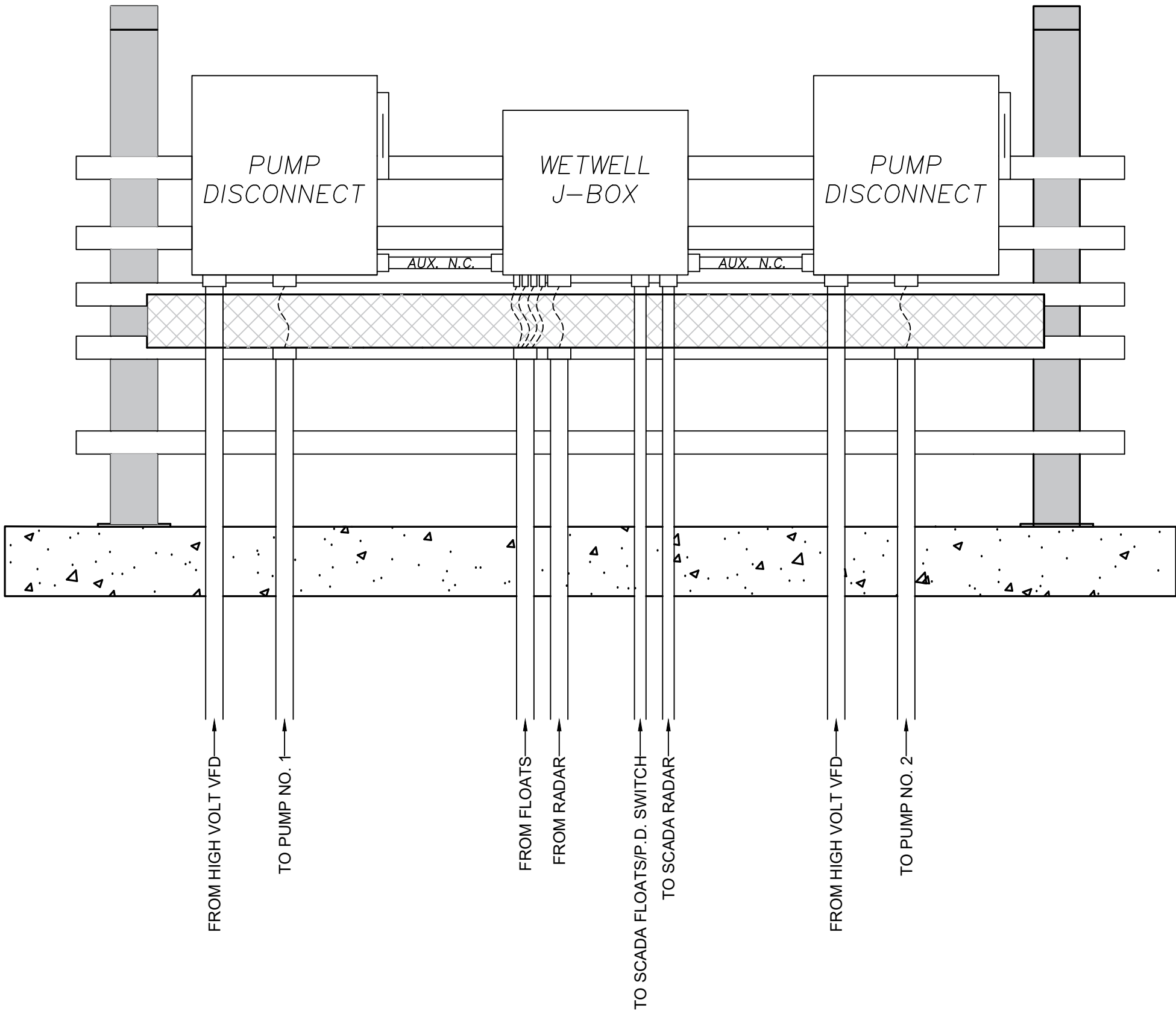
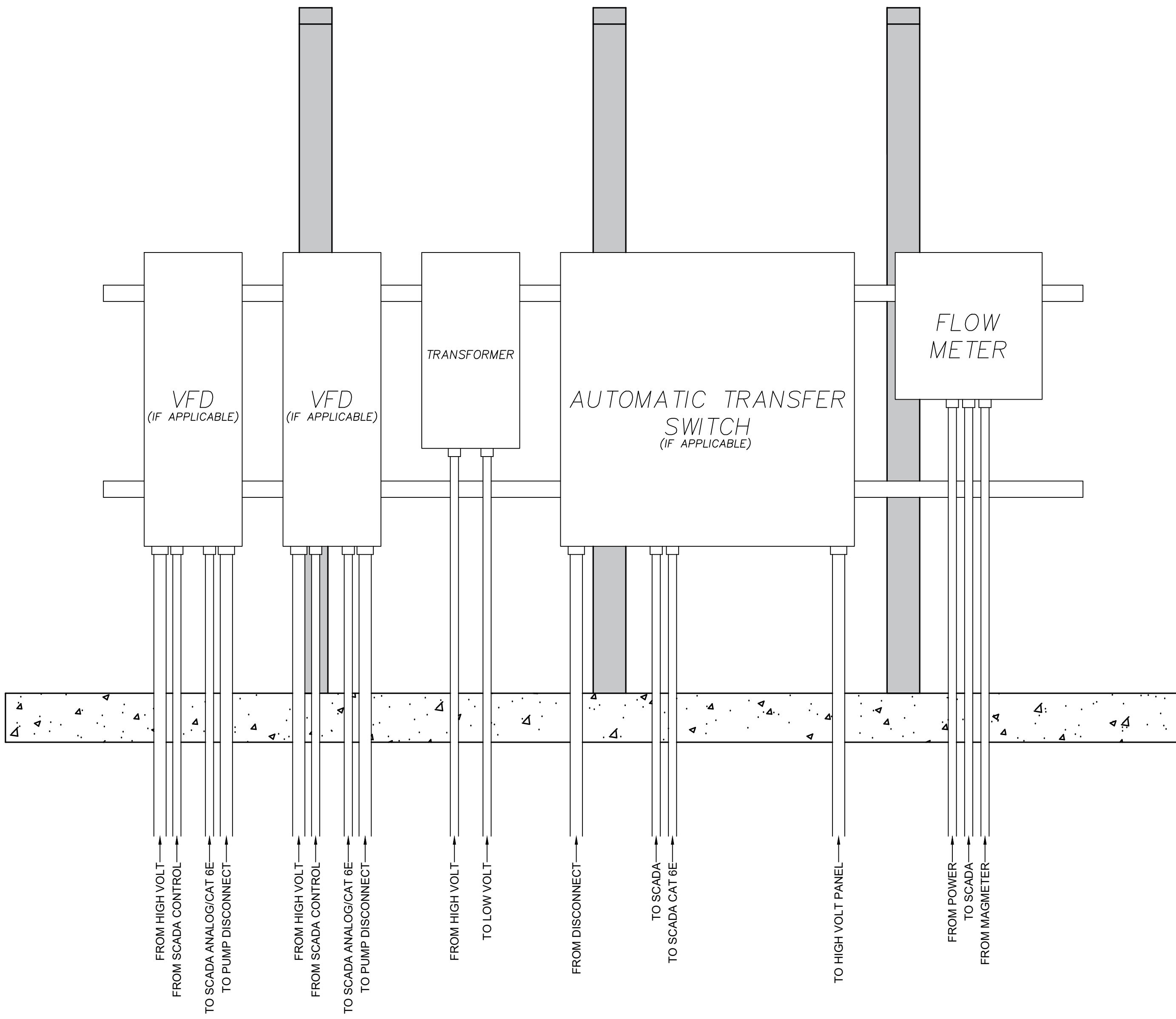
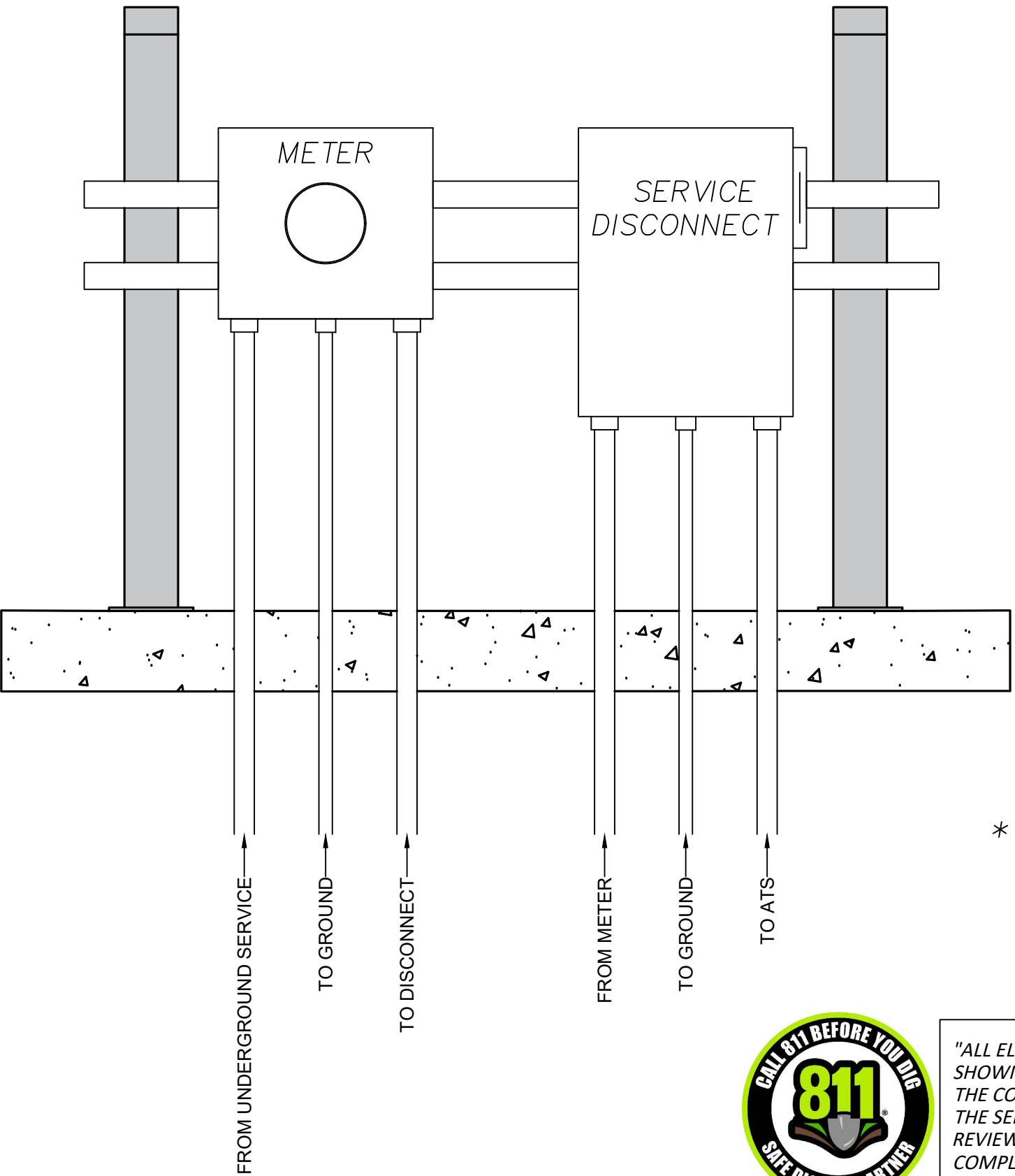
BRUNSWICK-GLYNN COUNTY
JOINT WATER & SEWER COMMISSION
PLANNING & CONSTRUCTION DIVISION
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NO.	DATE:	COMMENTS:
1	12-15-2022	REVISIONS - D. GRANTHAM

PROJECT NAME
GLYNN COUNTY, GEORGIA
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
JWSC STANDARD VFD ONE LINE

FILE NO.: JWSC PROJ. #2109	DATE: MAR 27, 2023	SCALE: NTS	DRAWN BY:
SHEET NO.: E-2			

ALL SHEETS ARE REQUIRED TO BE STAMPED AND SIGNED BY ELECTRICAL P.E.



* VFD, ATS AND FLOW METER EQUIPMENT TO BE INSTALLED IN DESIGNATED LOCATION BASED ON JWSC DESIGN.(IF APPLICABLE)



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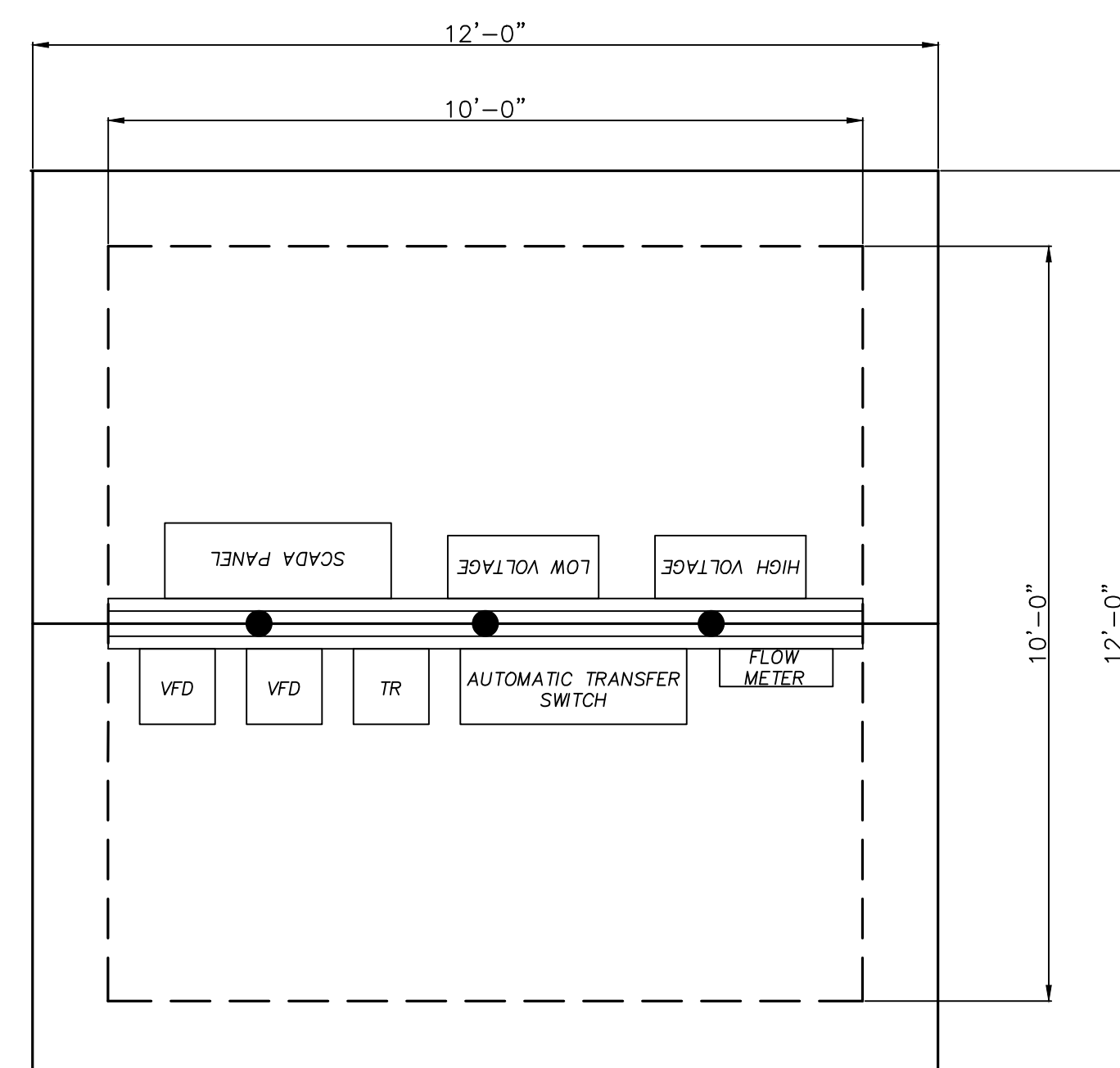
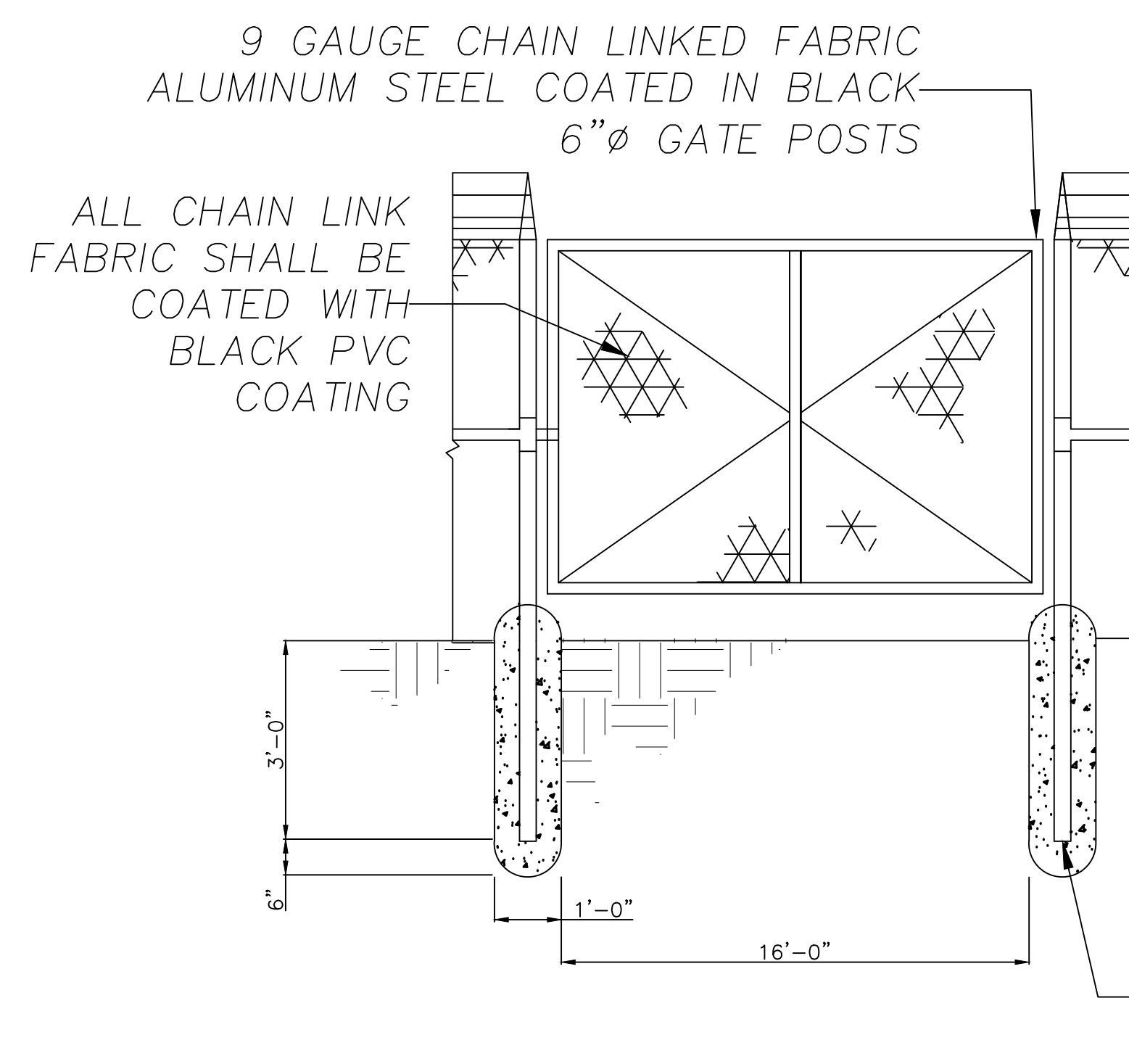
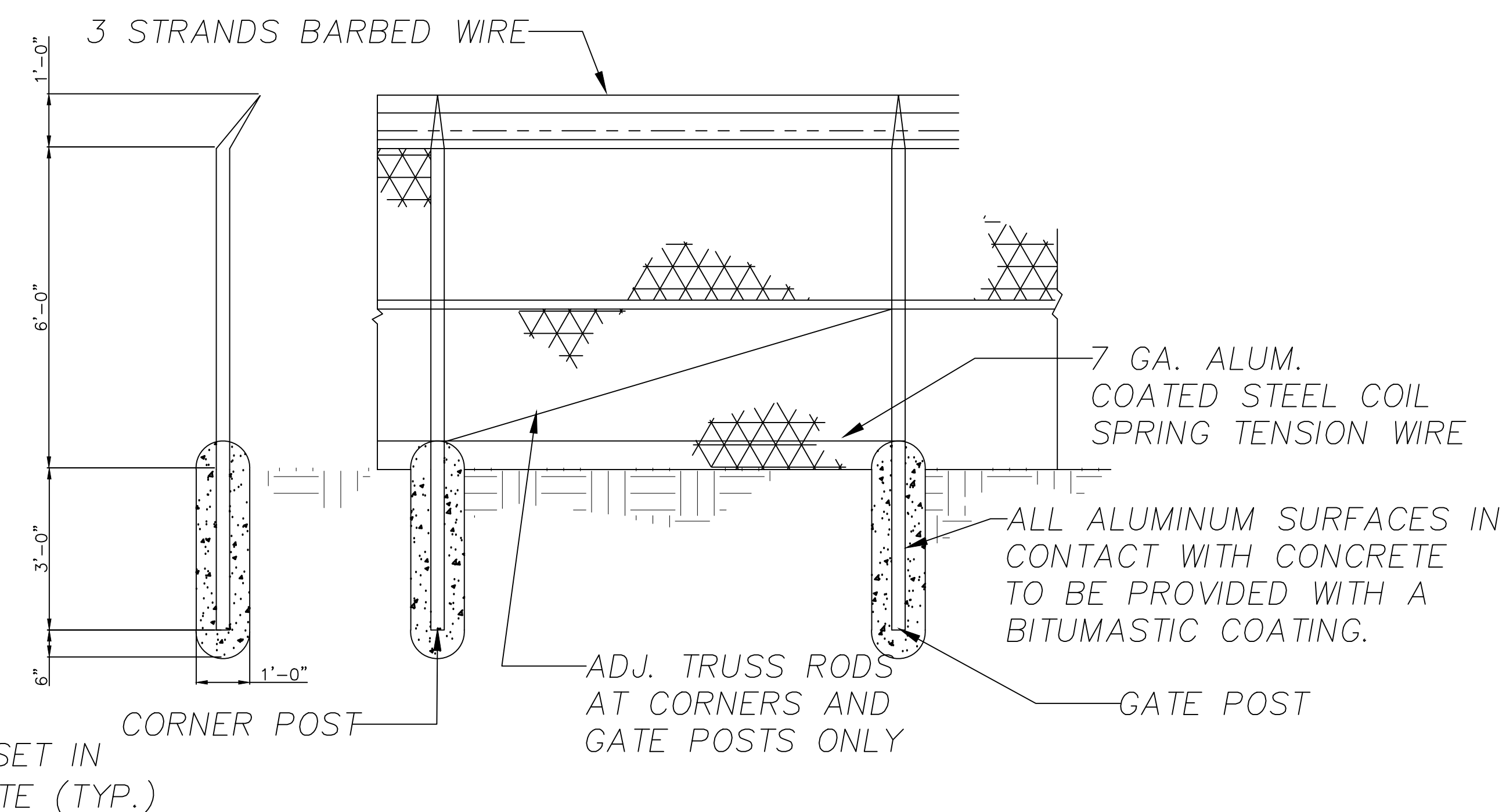
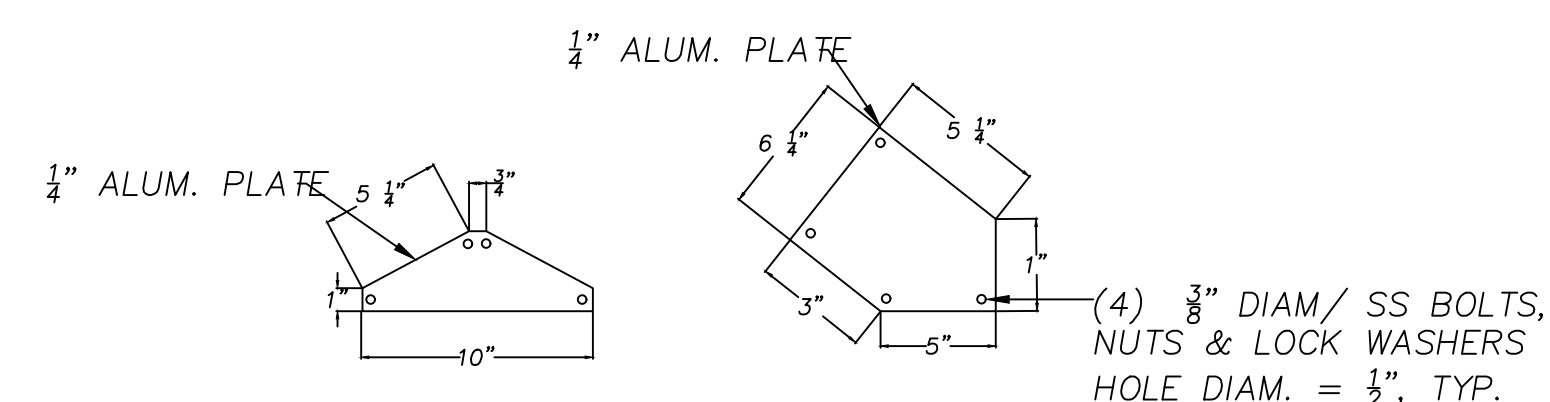
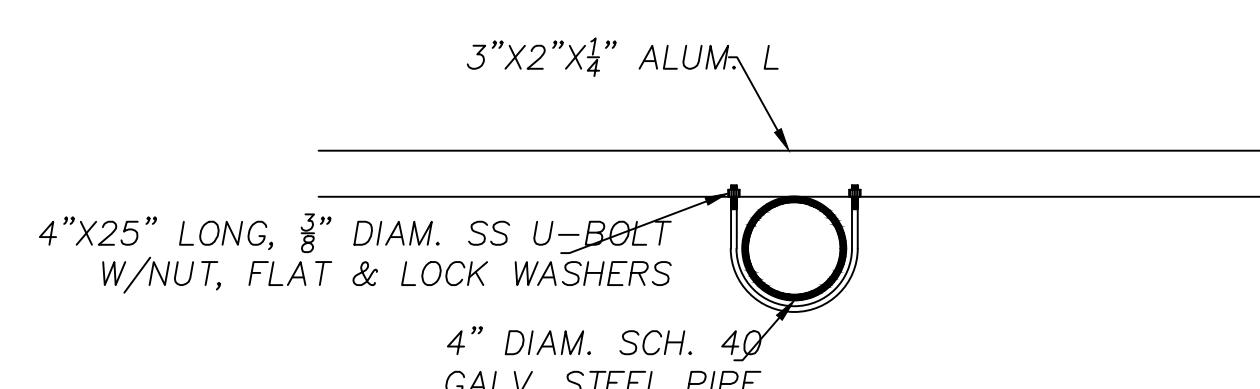
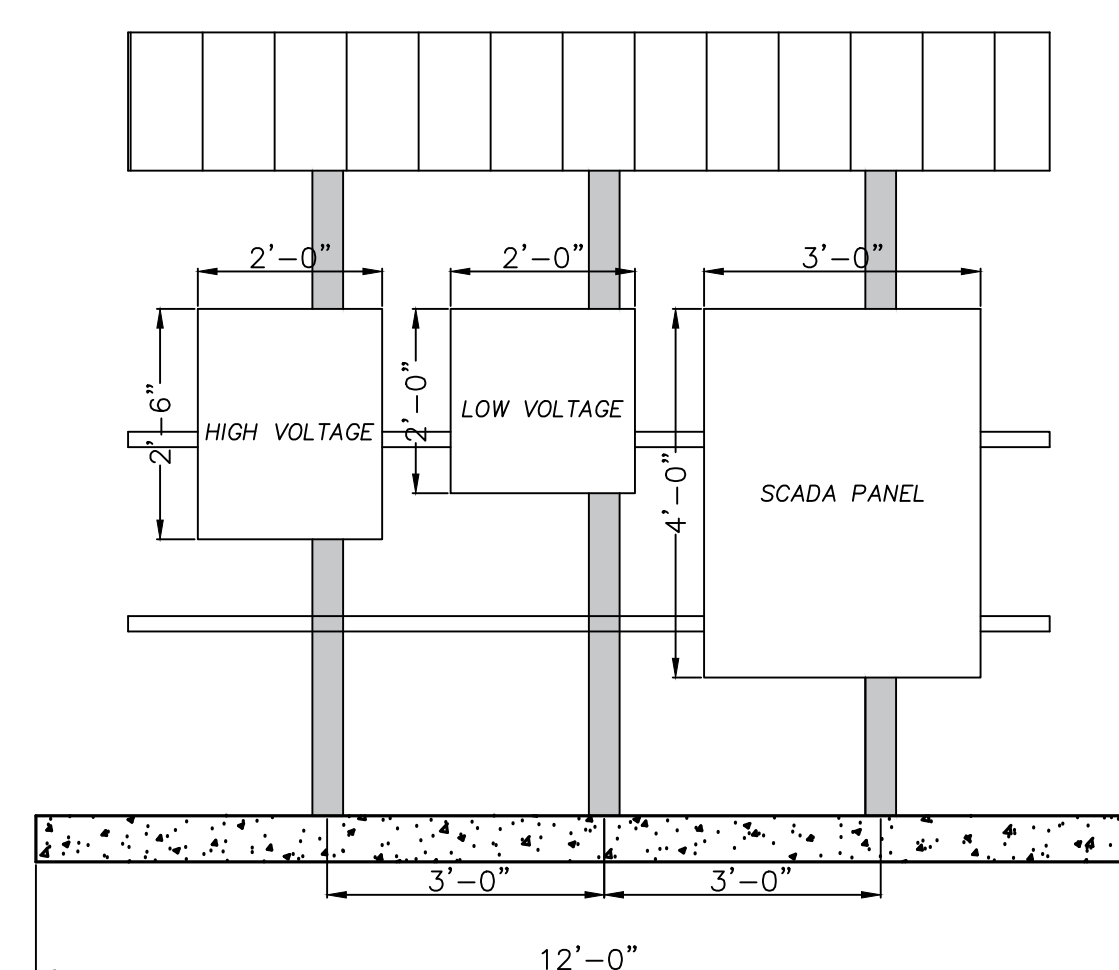
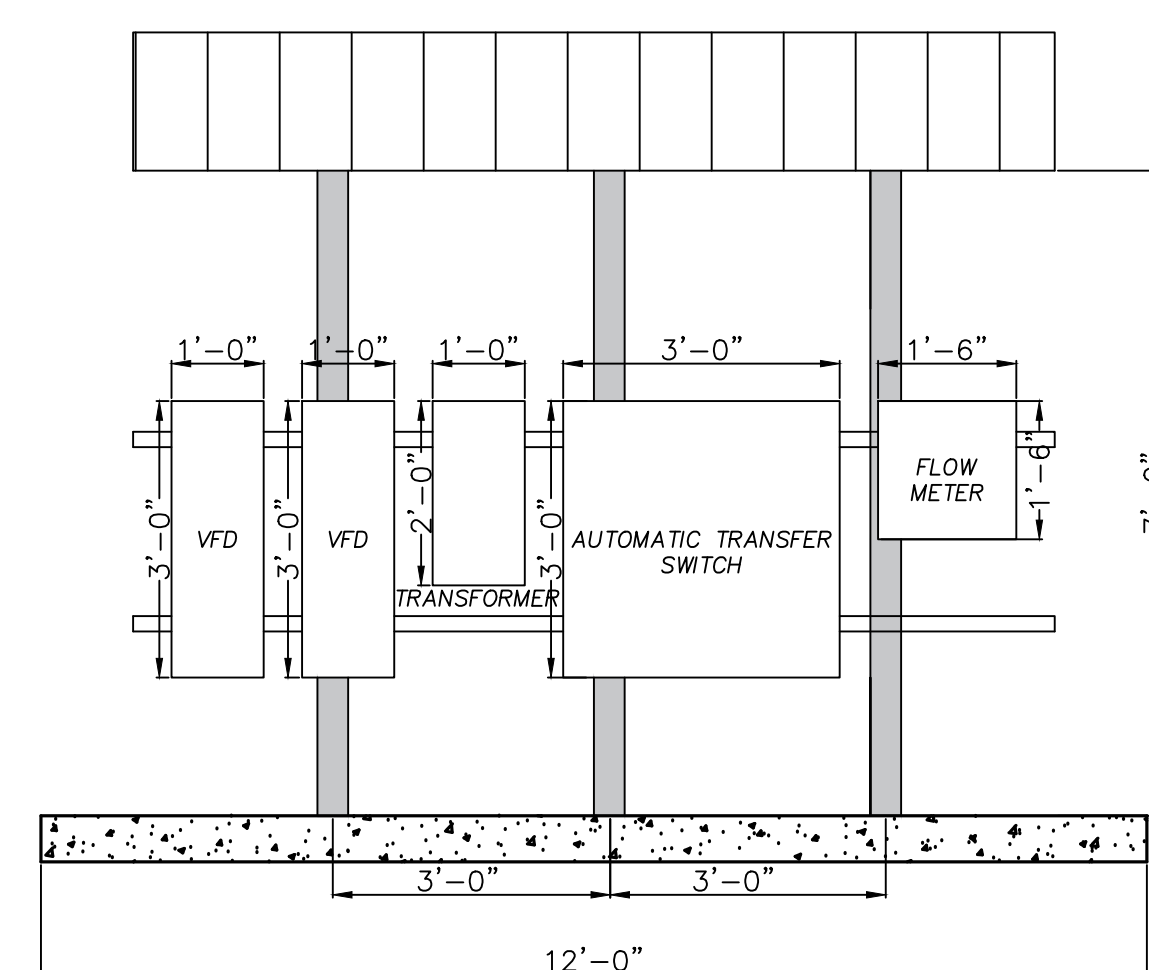
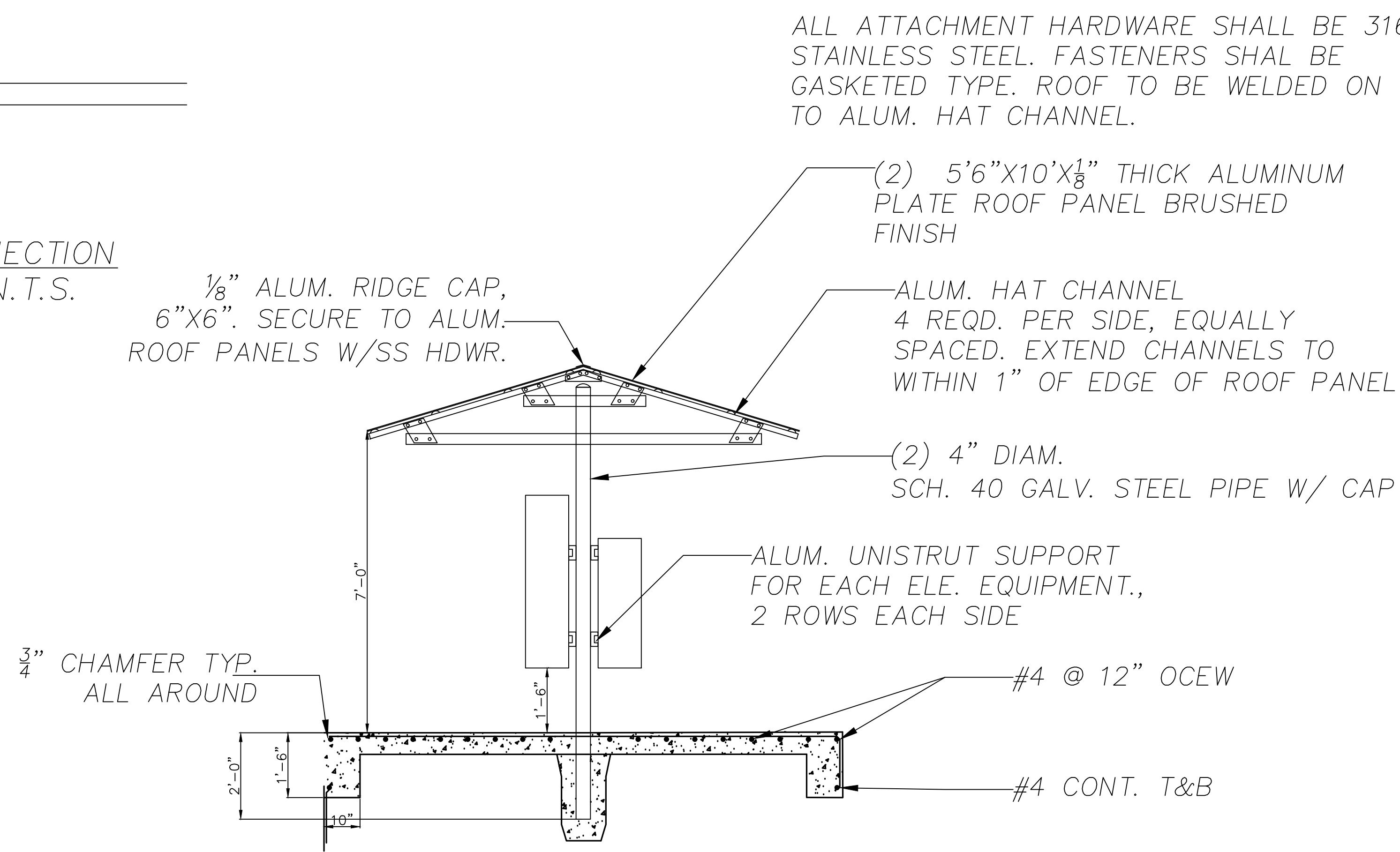


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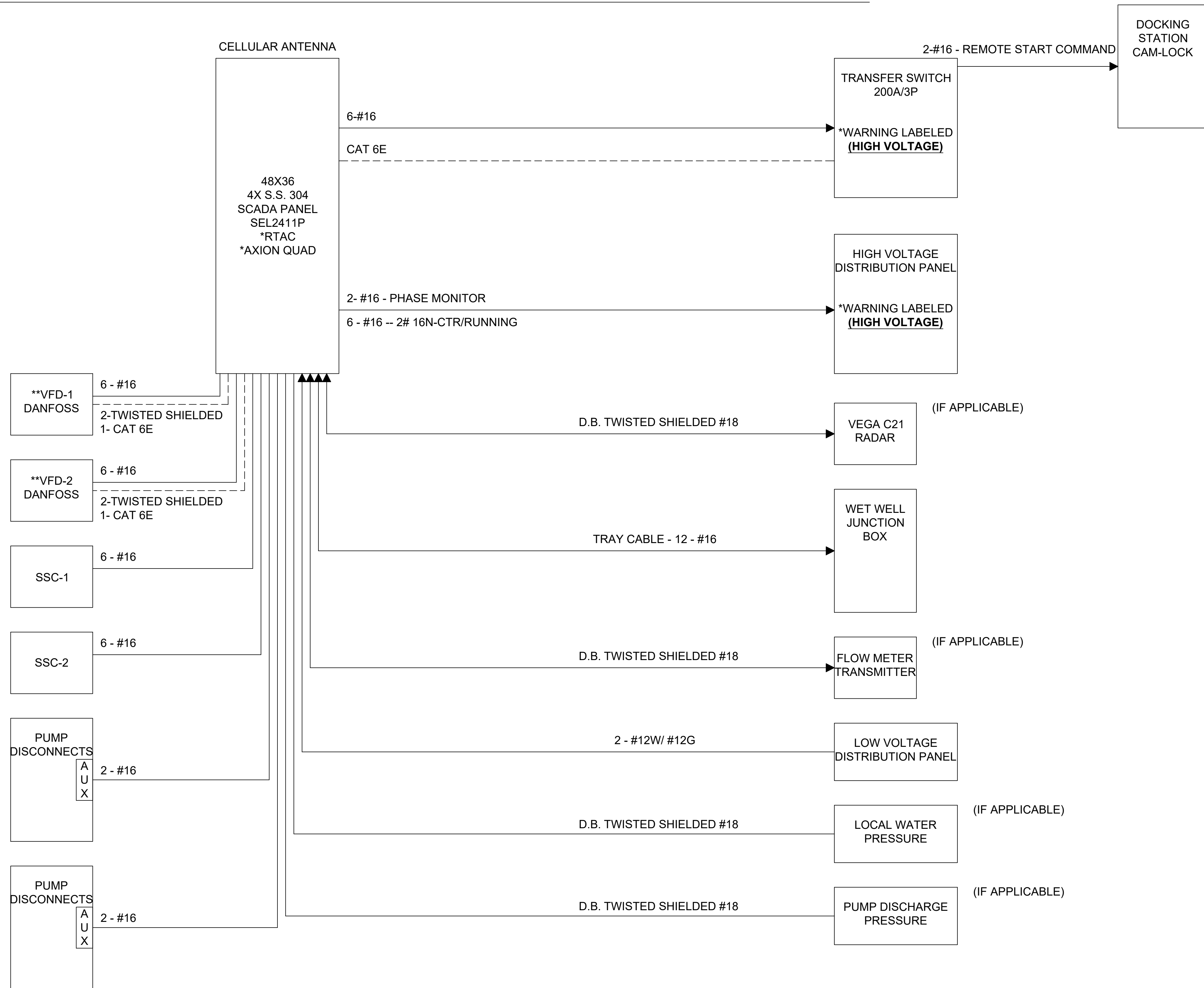
NO.	DATE:	COMMENTS:
1	12-15-2022	REVISIONS - D. GRANTHAM

PROJECT NAME
GLYNN COUNTY, GEORGIA
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

FILE NO.: JWSC PROJ. #2105	DATE: MAR 27, 2023	SCALE: NTS	DRAWN BY:
SHEET NO.: E-3			
OF 5			



ALL SHEETS ARE REQUIRED TO BE STAMPED AND SIGNED BY ELECTRICAL P.E.

INSTRUMENTATION NOTES

- * ALL CONDUITS FOR INSTRUMENTATION SHALL BE MIN. 3/4".
- * 60% CONDUIT FILL.
- * CONTRACTOR TO FOLLOW LATEST NEC RULING AT TIME OF CONSTRUCTION.
- * PUMP DISCONNECTS SHALL BE RATED 4X OR 3R IN S.S. 304 MIN. USE WITH VFD'S SHALL INCLUDE AUX CONTACTS.
- * PUMP SAFE, THERMAL & SEAL FAIL RELAYS NEED TO BE FIELD COORDINATED WITH INTEGRATORS AND EITHER INSTALLED IN THE SCADA PANEL OR WET WELL JUNCTION BOX.
- * PHASE MONITOR TO BE MACROMATIC PMPU AND WIRED TO THE SCADA PANEL FROM THE HIGH VOLT PANEL IN DEDICATED CONDUIT.
- * RUNNING STATUS CURRENT TRANSFORMER INSTALLED ON LOAD SIDE OF (SSC) SOLID STATE CONTACTORS. AND SOFT STARTS.

SITE REQUIREMENT'S BASED ON DESIGN

- * VEGA C21 RADAR TO BE FIELD INSTALLED BY CONTRACTOR AND PROGRAMMED AND SCALED BY INTEGRATORS.
- * ROSEMOUNT FLOW METERS TO BE CONNECTED TO SCADA AND SCALING FACTOR TO BE COORDINATED WITH INTEGRATORS.
- * LOCAL PRESSURE TRANSDUCER INSTALLED AND CONNECTED TO SCADA AT SITES REQUIRED BY JWSC.
- * PUMP DISCHARGE PRESSURE TRANSDUCERS TO BE INSTALLED AND CONNECTED TO SCADA AT SITES REQUIRED BY JWSC.
- * ATS TO BE ABB TRUEONE WITH LEVEL 4 CONTROLLER, CAT 6E AND DRY CONTACTS TO BE INSTALLED AND COORDINATED WITH INTEGRATORS.
- * VFD'S TO BE DANFOSS FC-202 NEMA 4X, CAT 6E AND DRY CONTACTS TO BE INSTALLED AND COORDINATED WITH INTEGRATORS.

ELECTRONIC MACHINE CONTROL (EMC)

- * TO PROVIDE SCHEDULED TERMINATION AND START-UP SERVICES.
- * LOCATION REQUIRING MMR'S OR RTAC'S THE CONFIGURATION SHALL BE COMPLETED BY INTEGRATORS. ALL INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH INTEGRATORS.

WET WELL T.B.

TERMINAL # AND LABEL

1. 336P - 24V+
2. 336P - 24V+
3. 604A - LAG FLOAT
4. 606A - LEAD FLOAT
5. 608A - STOP FLOAT
6. 612A - HIGH FLOAT
7. 802A - PUMP 1 THERMAL
8. 804A - PUMP 2 THERMAL
9. 827A - PUMP 1 SEAL FAIL
10. 829A - PUMP 2 SEAL FAIL
11. GND
12. SPARE
13. 952P - WETWELL LEVEL TRANSMITTER (+)
14. 952M - WETWELL LEVEL TRANSMITTER (-)
15. GND - SHIELD



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FILE NO.: JWSC PROJ. #2109 DATE: MAR 27, 2023 SCALE: NTS DRAWN BY:	PROJECT NAME GLYNN COUNTY, GEORGIA BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION		NO.: - - - - - - -	DATE: - - - - - - -	COMMENTS: - - - - - - -	BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION PLANNING & CONSTRUCTION DIVISION 1703 Gloucester Street Brunswick, Georgia 31520 (912) 261-7110 Phone (912) 261-7178 Fax www.bgwsc.org	
	JWSC TYPICAL INSTRUMENTATION		REVISIONS				

GENERAL NOTES:

1. PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.
2. THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CS55 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.
3. ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.
4. INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.
5. THE SAMPLE PORT SHALL CONSIST OF A OR 6"X6" PVC CROSS. VALVE BOX TO HAVE THE WORD "SEWER" STAMPED ON THE LID.
6. ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.
7. MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.
8. SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.

NOT TO SCALE



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PRECAST GREASE TRAP GENERAL NOTES

JWSC 5-1

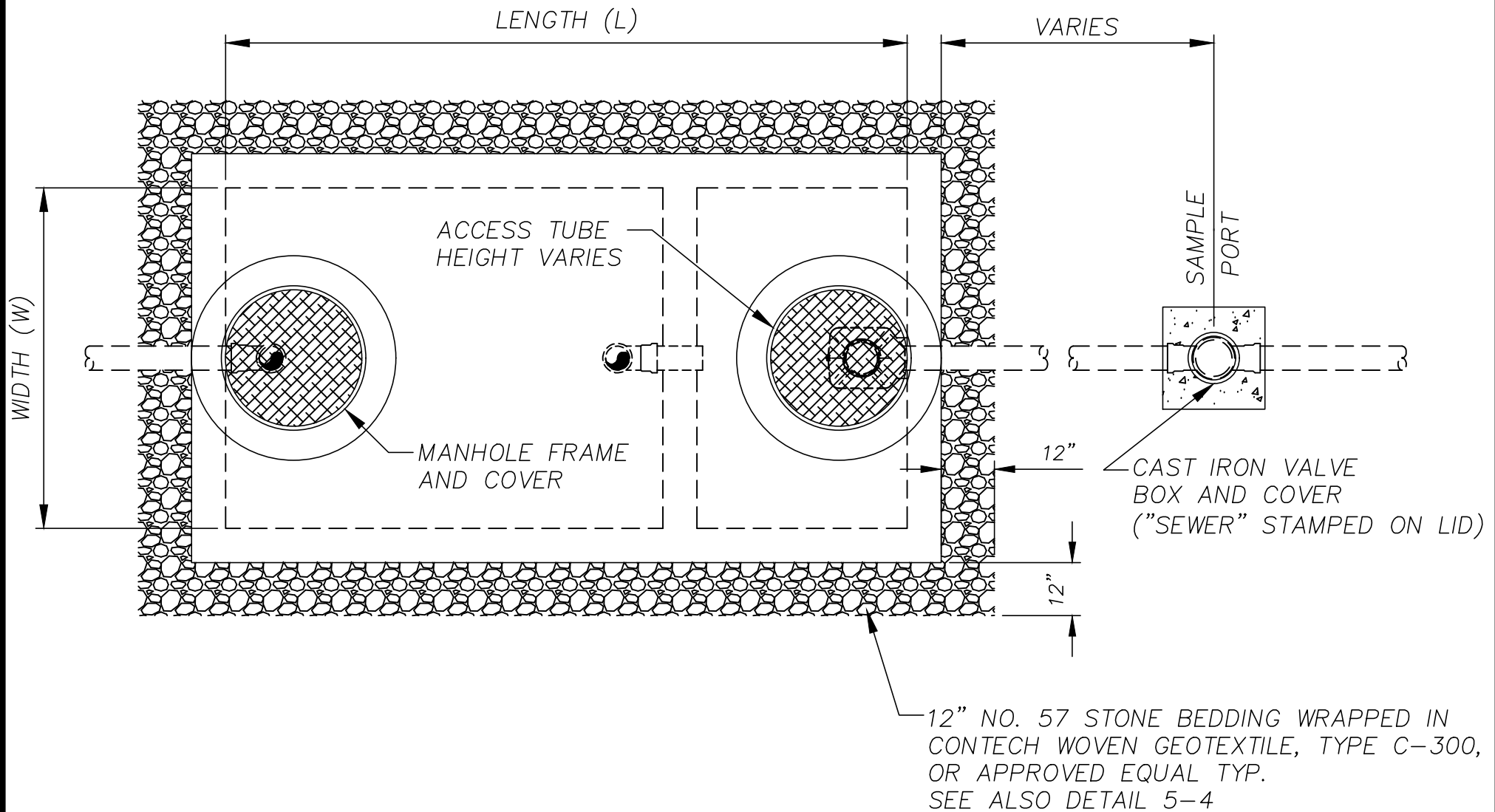
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

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Website: www.bgjwsc.org

PRECAST GREASE TRAP TOP PLAN

JWSC 5-2

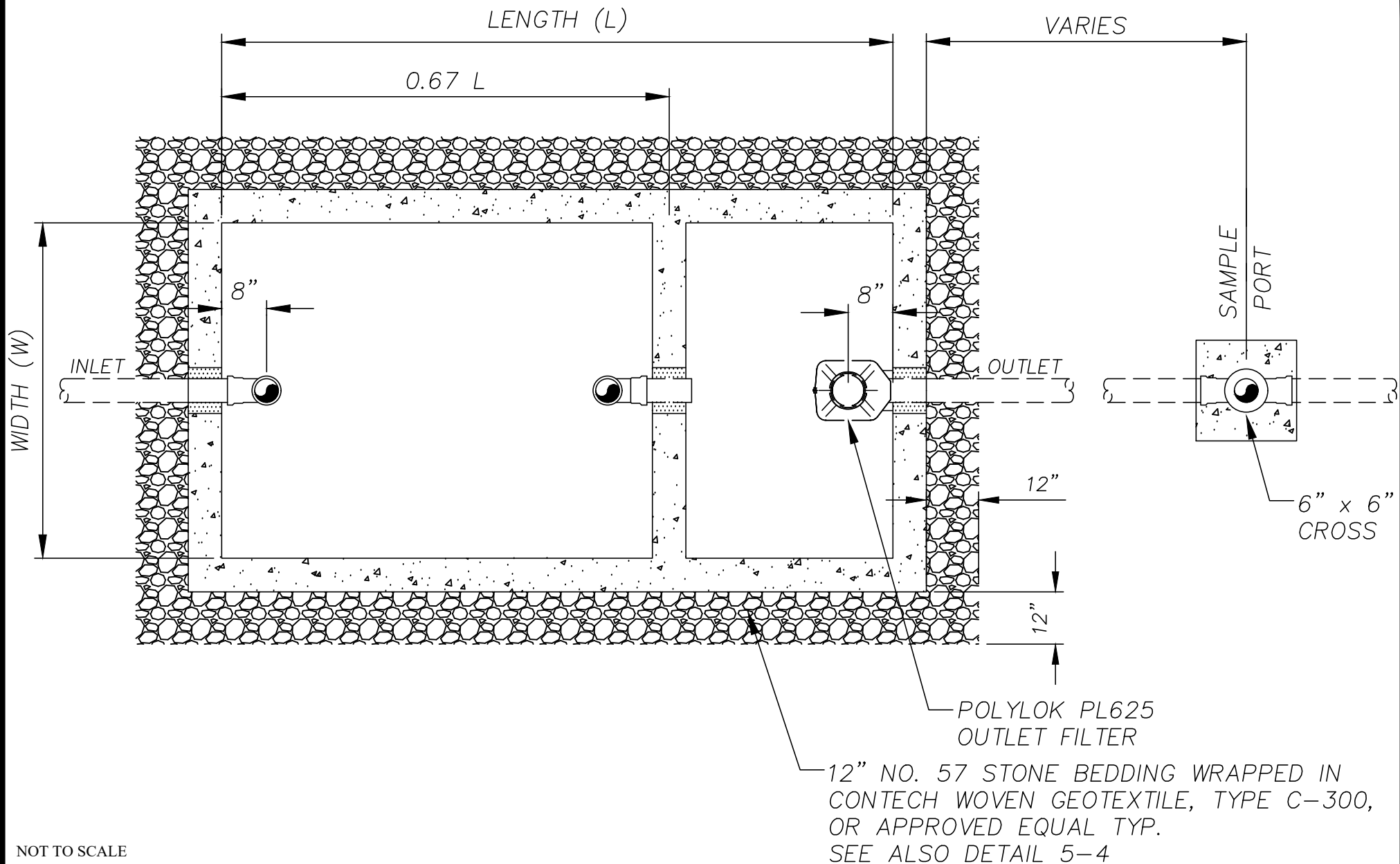
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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PRECAST GREASE TRAP WALL PLAN

JWSC 5-3

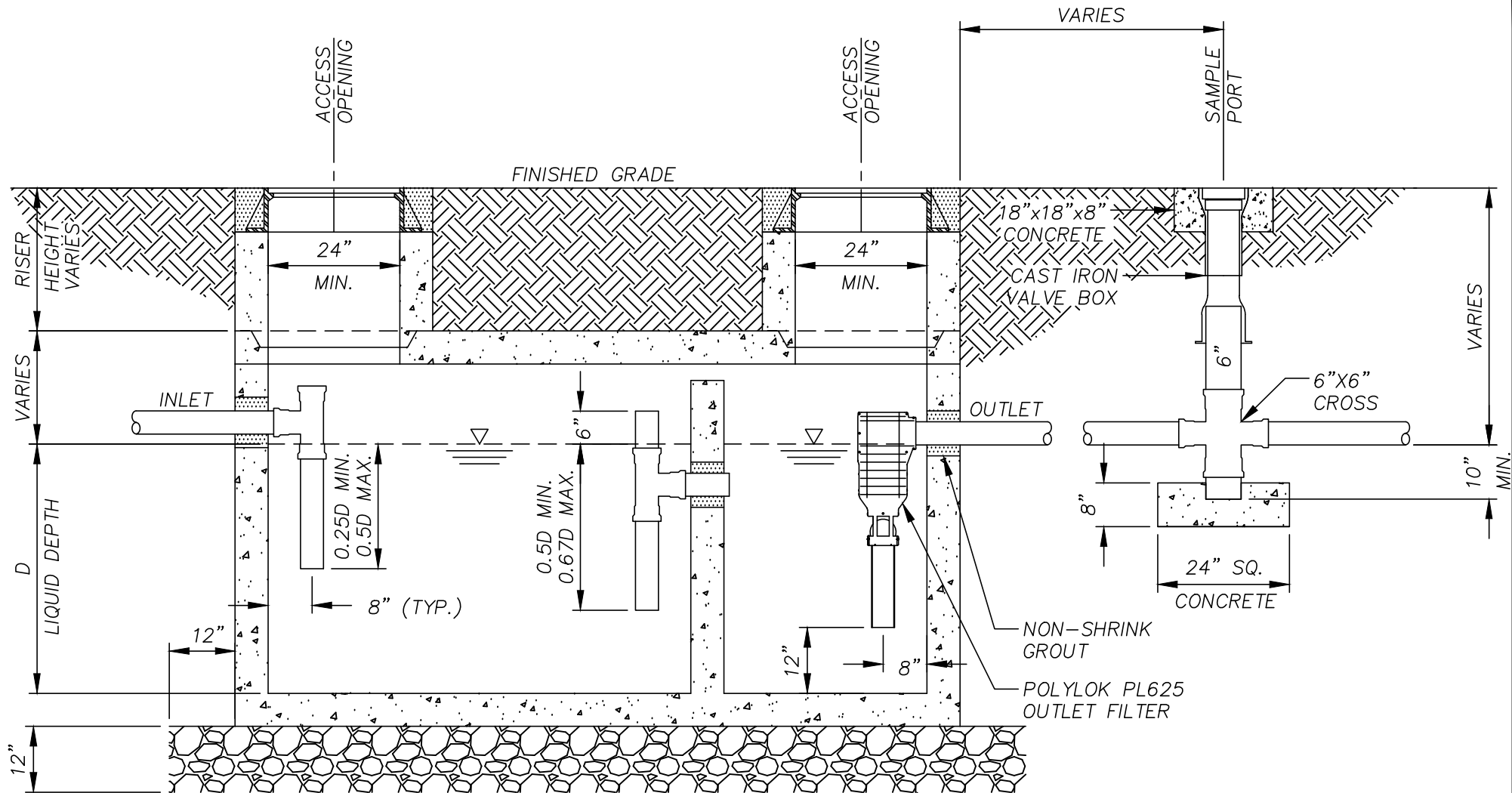
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

1. SAMPLING PORT MUST BE APPROVED PRIOR TO COVERING WITH FILL DIRT
- NOT TO SCALE

12" NO. 57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, TYPE C-300, OR APPROVED EQUAL TYP. SEE ALSO DETAIL 5-4



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**PRECAST GREASE TRAP
SECTION**

JWSC 5-4

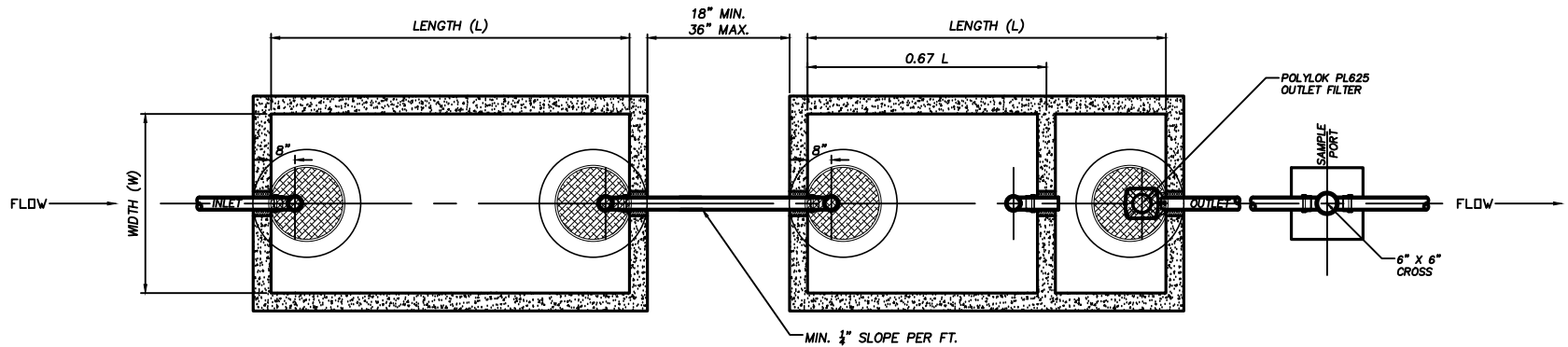
DESIGNED: BGJWSC

DRAWN: HPATEL

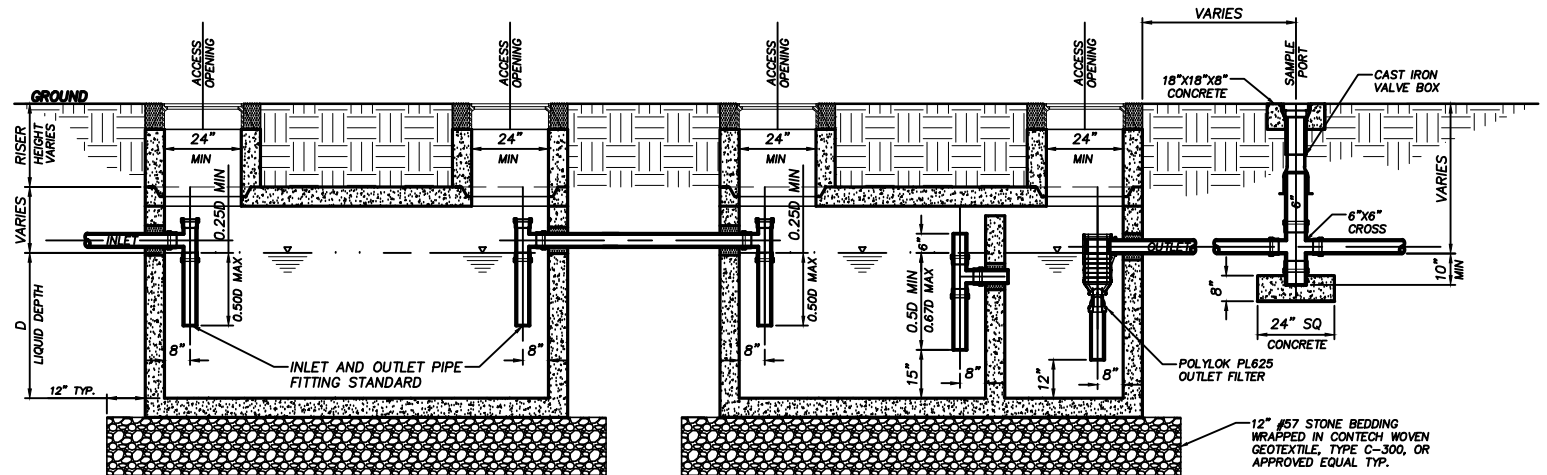
DATE: 05/26/2022

SCALE: NTS

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PLAN



SECTION

GENERAL NOTES:

PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.

THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CSS5 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.

ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.

INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.

THE SAMPLE PORT SHALL CONSIST OF A 6"x6" PVC CROSS. VALVE BOX TO HAVE THE WORD "SEWER" STAMPED ON THE LID.

ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.

MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.

SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.

12" #57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, TYPE C-300, OR APPROVED EQUAL TYP.

NOT TO SCALE



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PRECAST GREASE TRAP IN SERIES

JWSC 5-5

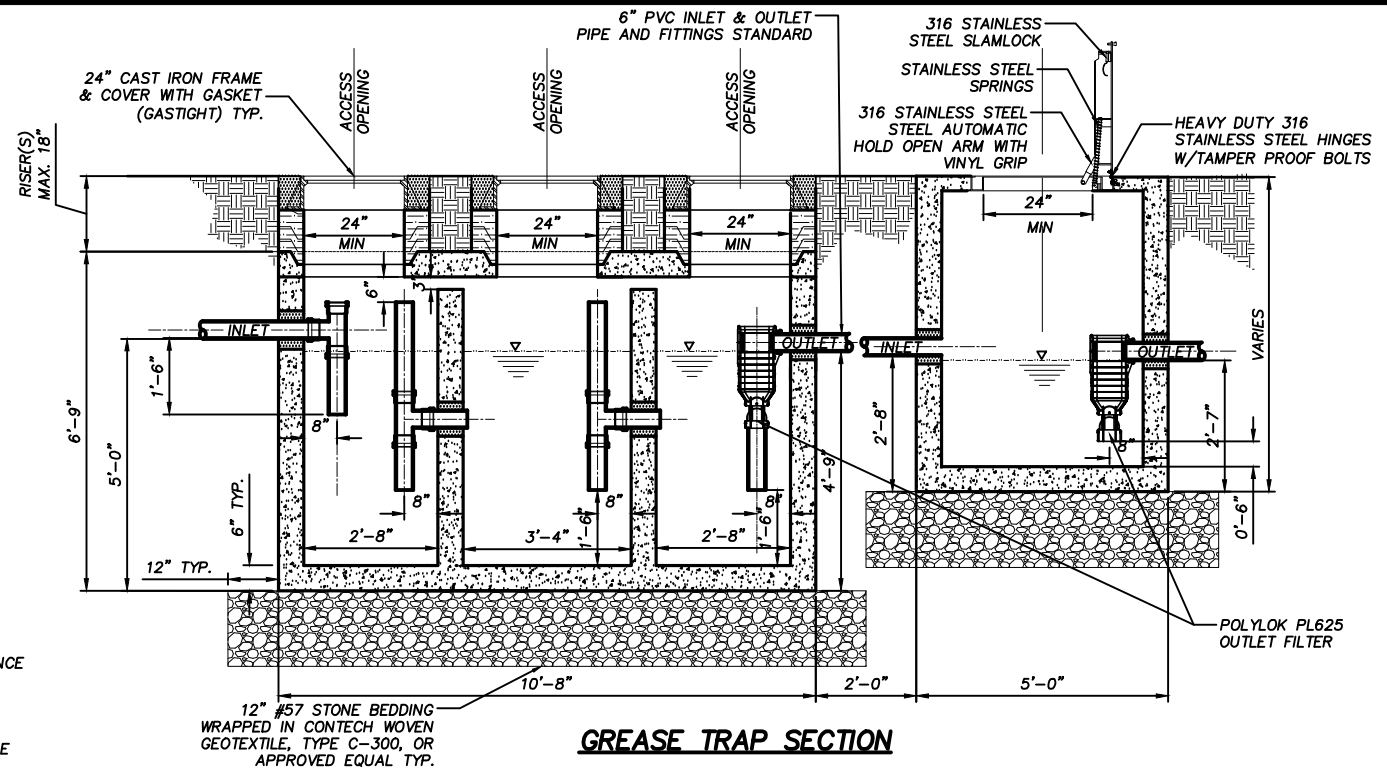
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

BY	REVISION	DATE
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GENERAL NOTES:

PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.

THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CS55 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.

ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.

INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.

ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.

MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.

SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.

12" #57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, TYPE C-300, OR APPROVED EQUAL TYP.

GRADE RINGS/RISERS MODEL NUMBERS:

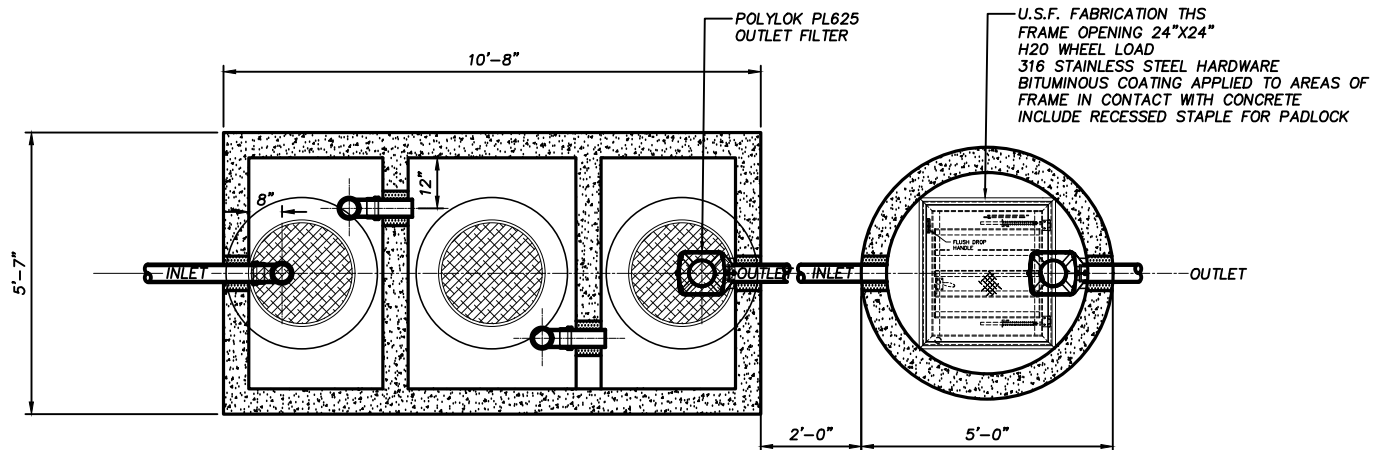
3-INCH: 2432 GR-03 GRADE RING

6-INCH: 2432 GR-06 GRADE RING

12-INCH: 2432 GR-12 GRADE RING

APPROVAL OF THIS TYPE OF INSTALLATION MUST COME FROM THE JWSC PRE-TREATMENT COMPLIANCE COORDINATOR.

NOT TO SCALE



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FUGITIVE GREASE TRAP 1,500 GALLON

JWSC 5-6

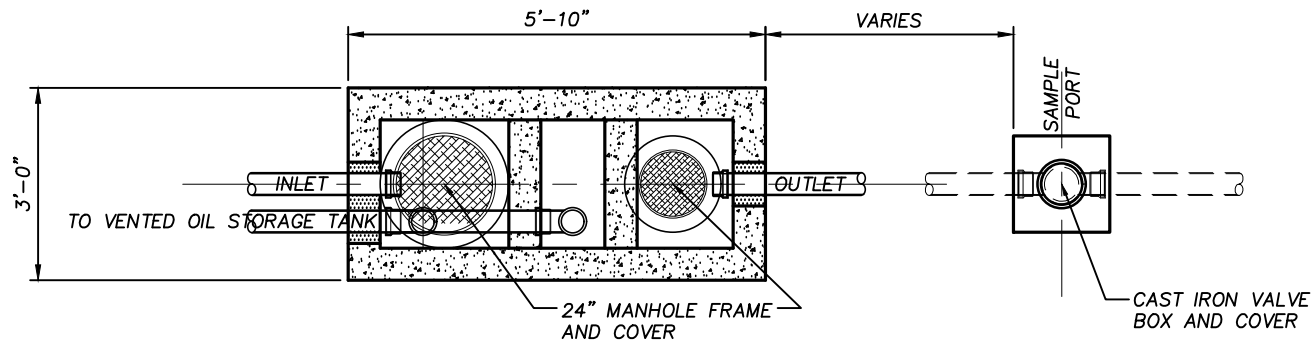
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.

THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CS55 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.

ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.

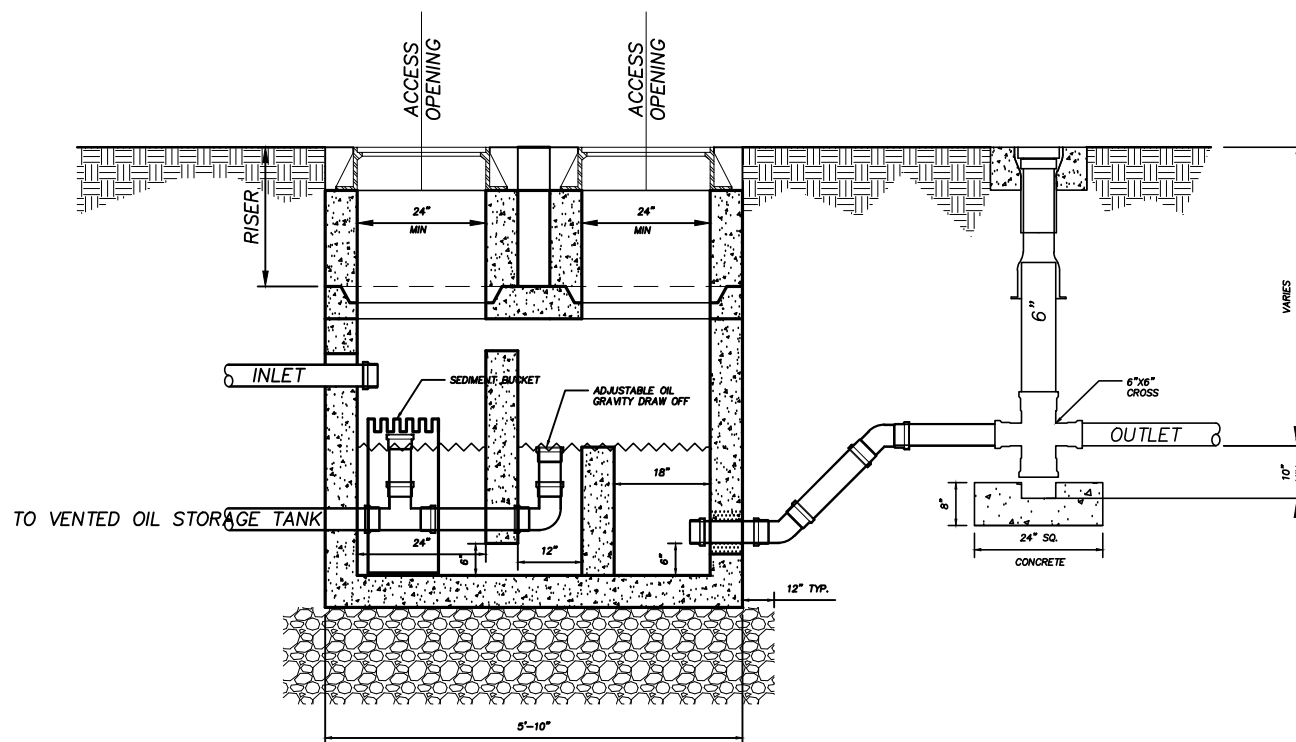
INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.

ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.

MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.

12" #57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, TYPE C-300, OR APPROVED EQUAL TYP.

SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.



NOT TO SCALE



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OIL/WATER SEPARATOR

JWSC 5-7A

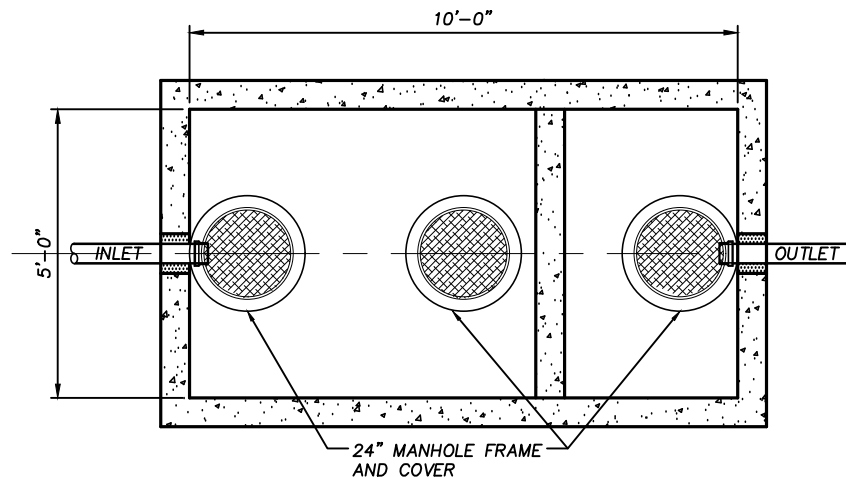
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 12/04/2023

SCALE: NTS

BY	REVISION	DATE
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GENERAL NOTES:

PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.

THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CS55 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.

ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.

INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.

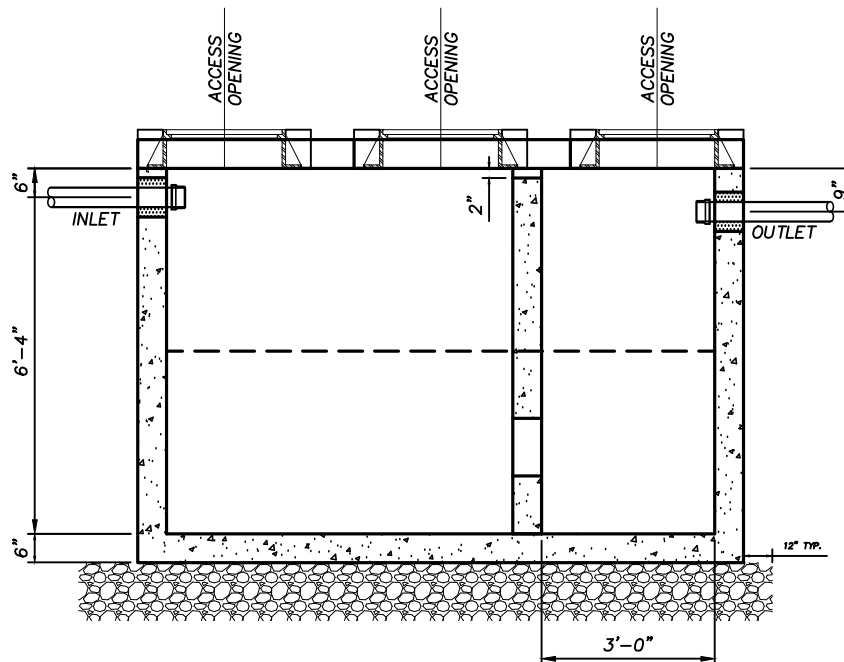
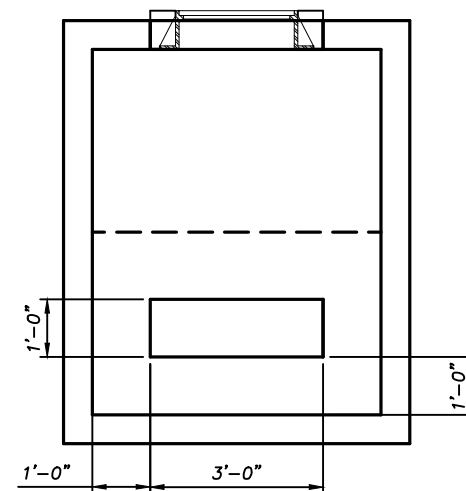
ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.

MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.

12" #57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, TYPE C-300, OR APPROVED EQUAL TYP.

SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.

NOT TO SCALE



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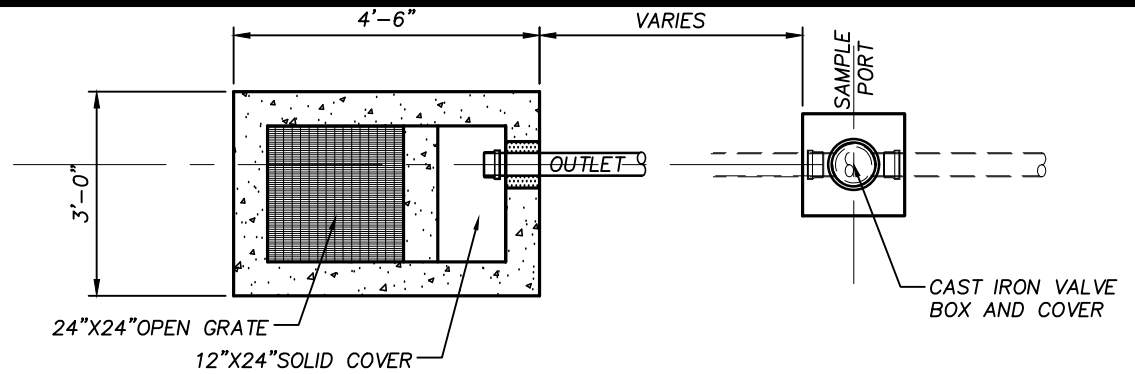
Phone: (912) 261-7110
Fax: (912) 261-7178

OIL/WATER SEPARATOR 2,000 GALLON CAPACITY

JWSC 5-7B

DESIGNED: BGJWSC DRAWN: HPATEL
DATE: 12/04/2023 SCALE: NTS

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GENERAL NOTES:

MULTIPLE FLOOR DRAINS MAY DISCHARGE INTO ONE SAND INTERCEPTOR.

SAND INTERCEPTORS SHALL BE BUILT OF BRICK OR CONCRETE OR OTHER WATER TIGHT MATERIAL. THE INTERCEPTOR SHALL HAVE AN INTERIOR BAFFLE FOR FULL SEPARATION OF THE INTERCEPTOR INTO TWO SECTIONS. THE OUTLET PIPE SHALL BE THE 6" MIN.

THE SAND INTERCEPTOR SHALL HAVE A MINIMUM DIMENSION OF TWO FEET SQUARE FOR THE NET FREE OPENING OF THE INLET SCREEN AND A MINIMUM DEPTH UNDER THE INVERT OF THE OUTLET PIPE OF TWO FEET.

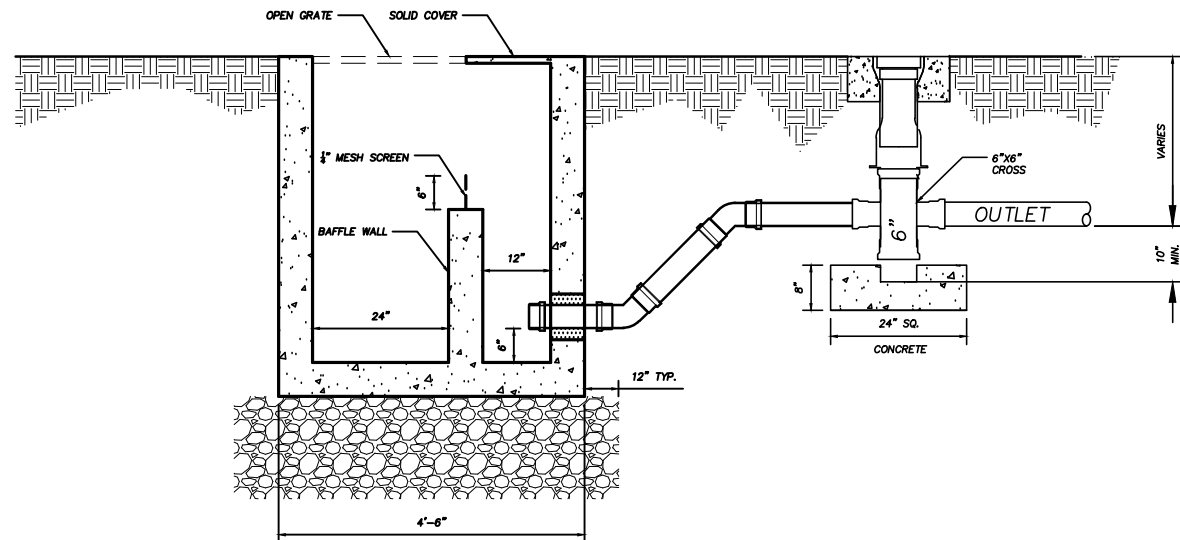
FOR EACH FIVE GALLON PER MINUTE FLOW OR FRACTION THEREOF OVER 20 GALLONS PER MINUTE, THE AREA OF THE SAND INTERCEPTOR INLET SECTION IS TO BE INCREASED BY ONE SQUARE FOOT. THE OUTLET SECTION SHALL AT ALL TIMES HAVE A MINIMUM AREA OF 50 PERCENT OF THE INLET SECTIONS.

THE OUTLET SECTION SHALL BE COVERED BY A SOLID REMOVABLE COVER SET FLUSH WITH THE FINISHED FLOOR, AND THE INLET SECTION SHALL HAVE AN OPEN GRATE SET FLUSH WITH THE FINISHED FLOOR AND SUITABLE FOR TRAFFIC IN THE AREA IN WHICH IT IS LOCATED.

SAND AND SIMILAR INTERCEPTORS FOR EVERY SOLID SHALL SO BE DESIGNED AND LOCATED AS TO BE READILY ACCESSIBLE FOR CLEANING, SHALL HAVE A WATER SEAL OF NOT LESS THAT SIX INCHES, AND SHALL BE VENTED.

ALTERNATE DESIGNS FOR CONSTRUCTION OR BAFFLING OF SAND INTERCEPTORS COMPLYING WITH THE INTENT OF THIS CODE MAY BE SUBMITTED TO THE PRE-TREATMENT COMPLIANCE COORDINATOR FOR REVIEW/APPROVAL.

NOT TO SCALE



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SAND/SOLID SEPARATOR

JWSC 5-8

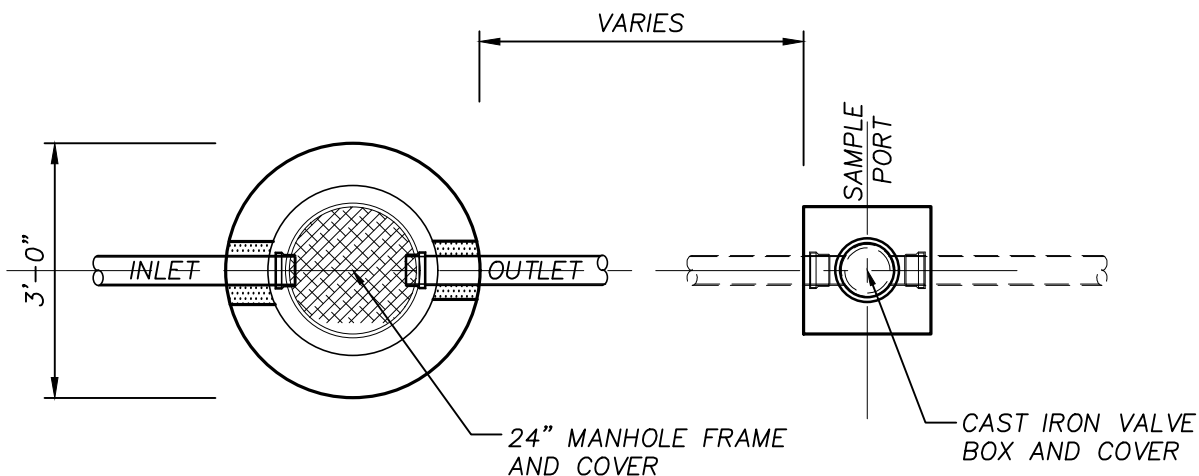
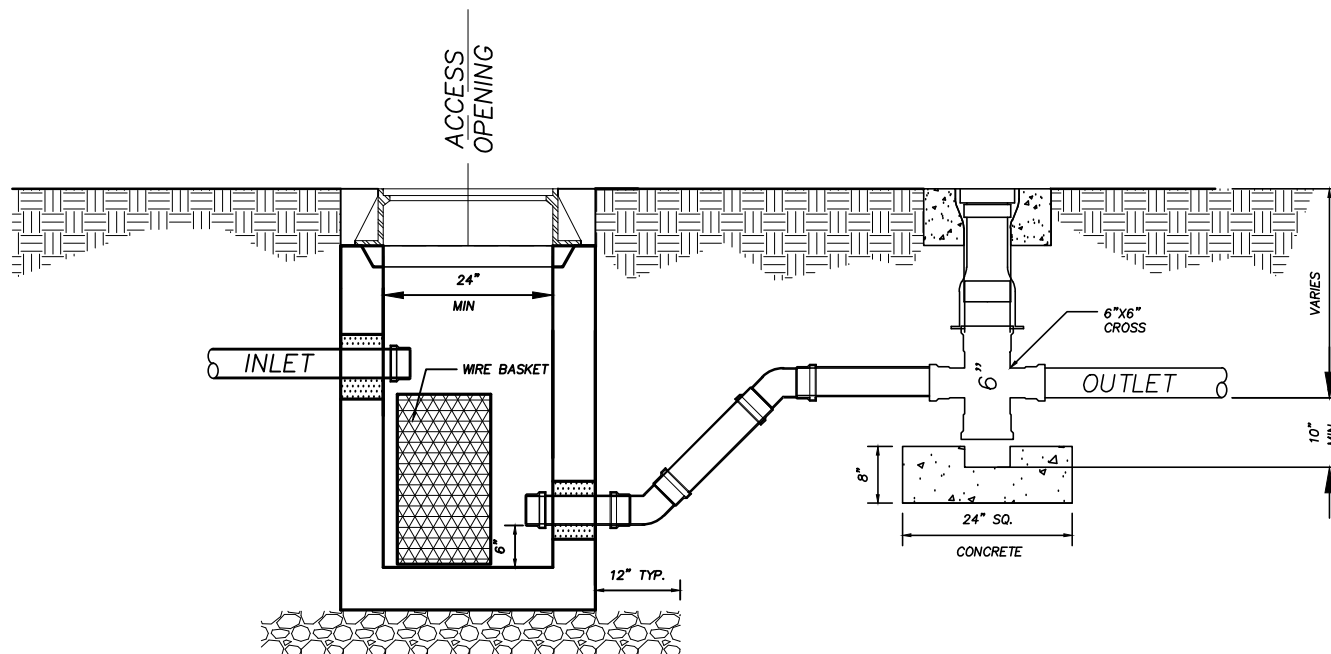
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 12/04/2023

SCALE: NTS

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GENERAL NOTES:

LAUNDRY EQUIPMENT THAT DOES NOT HAVE INTEGRAL STRAINERS SHALL DISCHARGE INTO AN INTERCEPTOR HAVING A WIRE BASKET OR SIMILAR DEVICE THAT IS REMOVABLE FOR CLEANING AND THAT WILL PREVENT PASSAGE INTO DRAINAGE SYSTEM OF SOLIDS $\frac{1}{2}$ INCH OR LARGER IN MAXIMUM DIMENSION, SUCH AS STRING, RAGS, BUTTONS OR OTHER SOLID MATERIALS DETRIMENTAL TO THE DRAINAGE SYSTEM.

NOT TO SCALE



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LINT TRAP

JWSC 5-9

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 12/04/2023

SCALE: NTS

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