


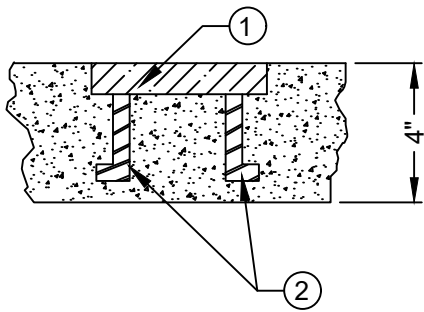
SECTION VIEW

PLAN VIEW

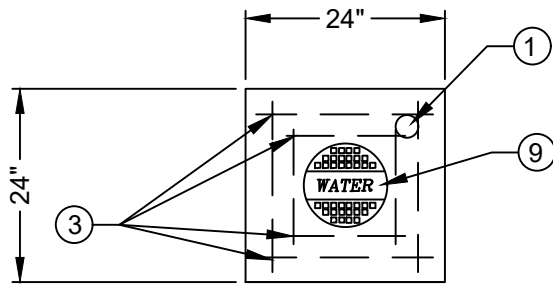
- ① CONCRETE PAD - 24"X24"X4" THK.
(SEE VALVE INSTALLATION DETAIL G-02)
- ② SET TOP OF BOX FLUSH WITH FINISHED GRADE
- ③ EXTENSION STEM IF TOP OF OPERATING NUT IS MORE THAN 30" BELOW FINISH GRADE
- ④ VALVE BOX (SEE VALVE INSTALLATION DETAIL G-02)
- ⑤ OUTLET FOR TESTING
- ⑥ MJ RESTRAINED
- ⑦ MAIN SIZE VARIES
- ⑧ TAPPING VALVE (SEE VALVE INSTALLATION DETAIL G-02)
- ⑨ LCU APPROVED ALL STAINLESS STEEL PRESSURE RATED TAPPING SLEEVE. FOR SIZE ON SIZE TAPS A FLANGED TAPPING SLEEVE IS REQUIRED. SPRING LOADED TAPPING SLEEVE IS REQUIRED WHEN CONNECTING TO HDPE (SEE APPROVED MATERIAL LIST)
- ⑩ BRASS PLATE (SEE VALVE INSTALLATION DETAIL G-02)
- ⑪ CAST IRON DROP COVER MARKED "WATER", "SEWER" OR "REUSE"
- ⑫ COMPACTED SUITABLE EARTH BACKFILL
- ⑬ ¾" GRANULAR MATERIAL #57 STONE
- ⑭ 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

NOT TO SCALE

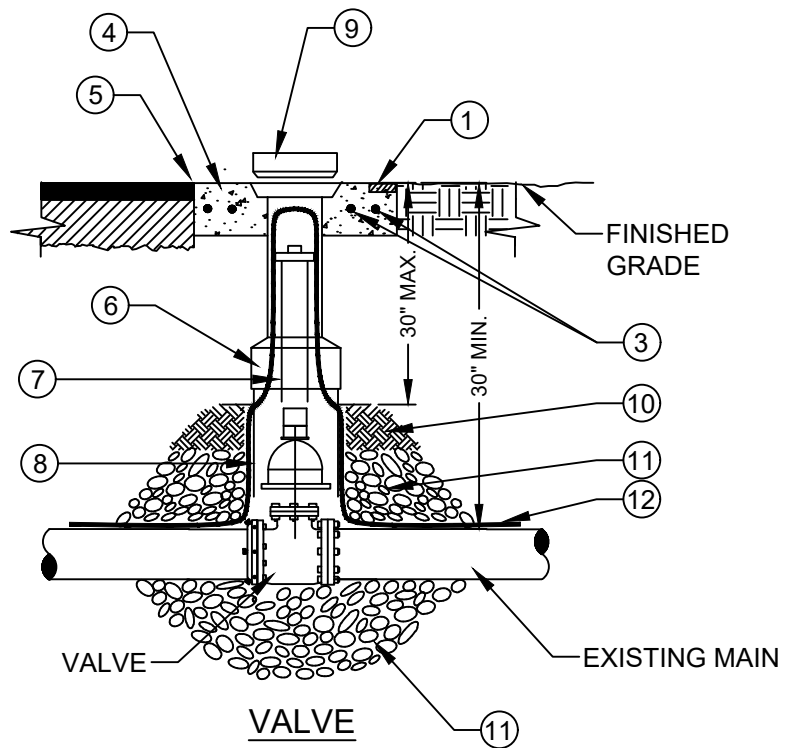
	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TAPPING SLEEVE & VALVE	
<small>TITLE:</small>	<small>REVISION:</small> 1/26/24	<small>DETAIL NO.:</small> G-01.dwg



DETAIL




PLAN VIEW
(VALVE PAD)

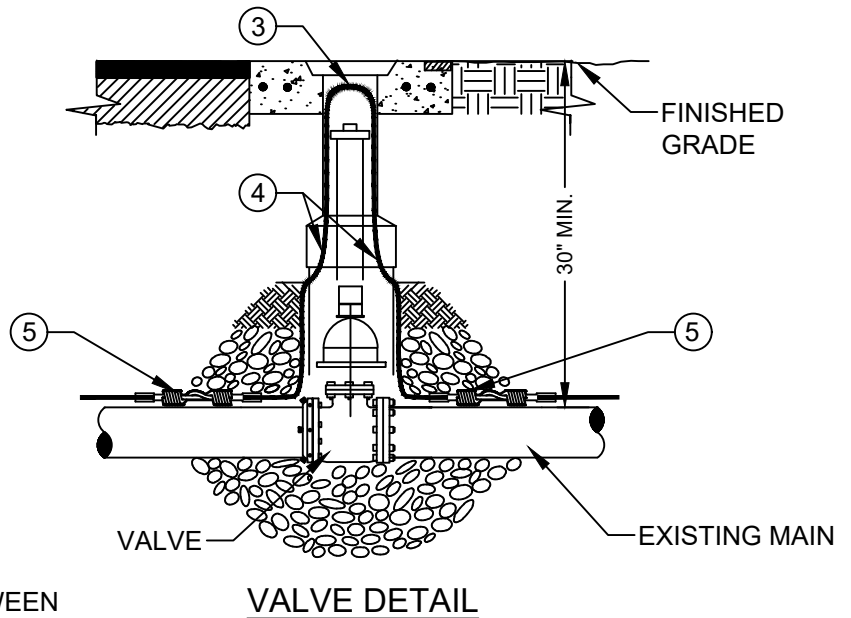
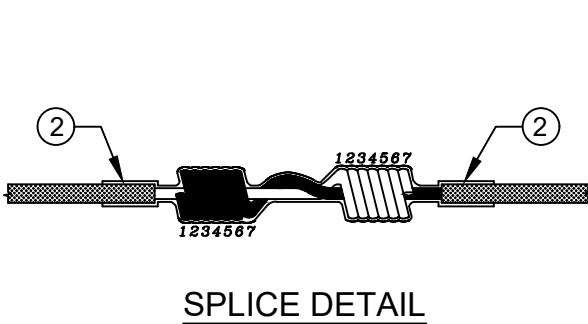
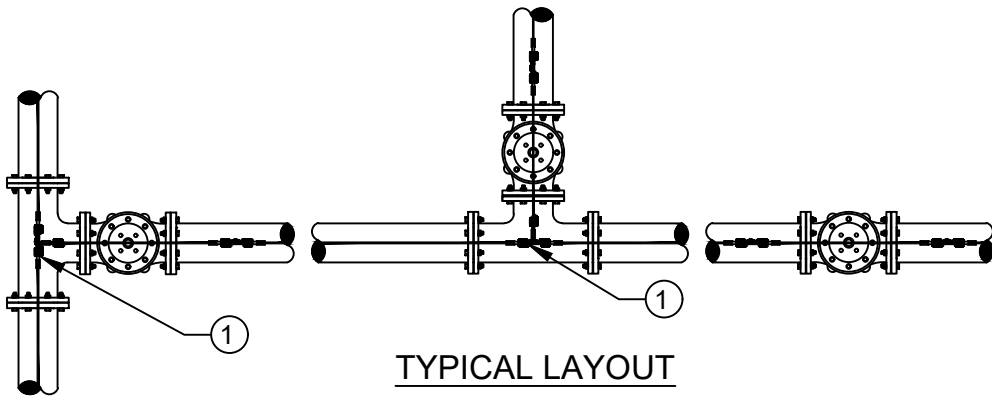


VALVE

- ①. BRASS PLATE: SIZE OF VALVE, VALVE TYPE
NO. OF TURNS & DIRECTION TO OPEN
VALVE MFG & YEAR INSTALL
SYSTEM "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
- ②. ANCHOR
- ③. EIGHT (8) #4 BARS OVERLAP EACH CORNER BY 2"
- ④. 24" SQ X 4" THK. CONC. PAD SURROUNDING BOX, MIN. 3000 P.S.I.
POURED IN PLACE
- ⑤. SET TOP OF BOX FLUSH WITH FINISHED GRADE
- ⑥. HEAVY DUTY TRAFFIC BEARING CAST IRON VALVE BOX, ADJUSTABLE SCREW
TYPE, 5 1/4" DIAMETER SHAFT THAT IS LCU APPROVED
- ⑦. EXTENSION STEM WITH 2" OPERATING NUT AS REQUIRED, IF NUT IS MORE
THAN 30" BELOW FINISH GRADE.
- ⑧. RISER NOT TO BEAR ON VALVE OR PIPE (RISER PIPE MATERIAL MUST BE PVC)
- ⑨. CAST IRON DROP COVER MARKED "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
- ⑩. COMPACTED SUITABLE EARTH BACKFILL
- ⑪. 3/4" GRANULAR MATERIAL #57 STONE
- ⑫. 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE
(SEE LCU DETAIL G-03)

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: GATE VALVE	
<small>REVISION:</small> 1/26/24	<small>DETAIL NO:</small> G-02.dwg	

NOT TO SCALE



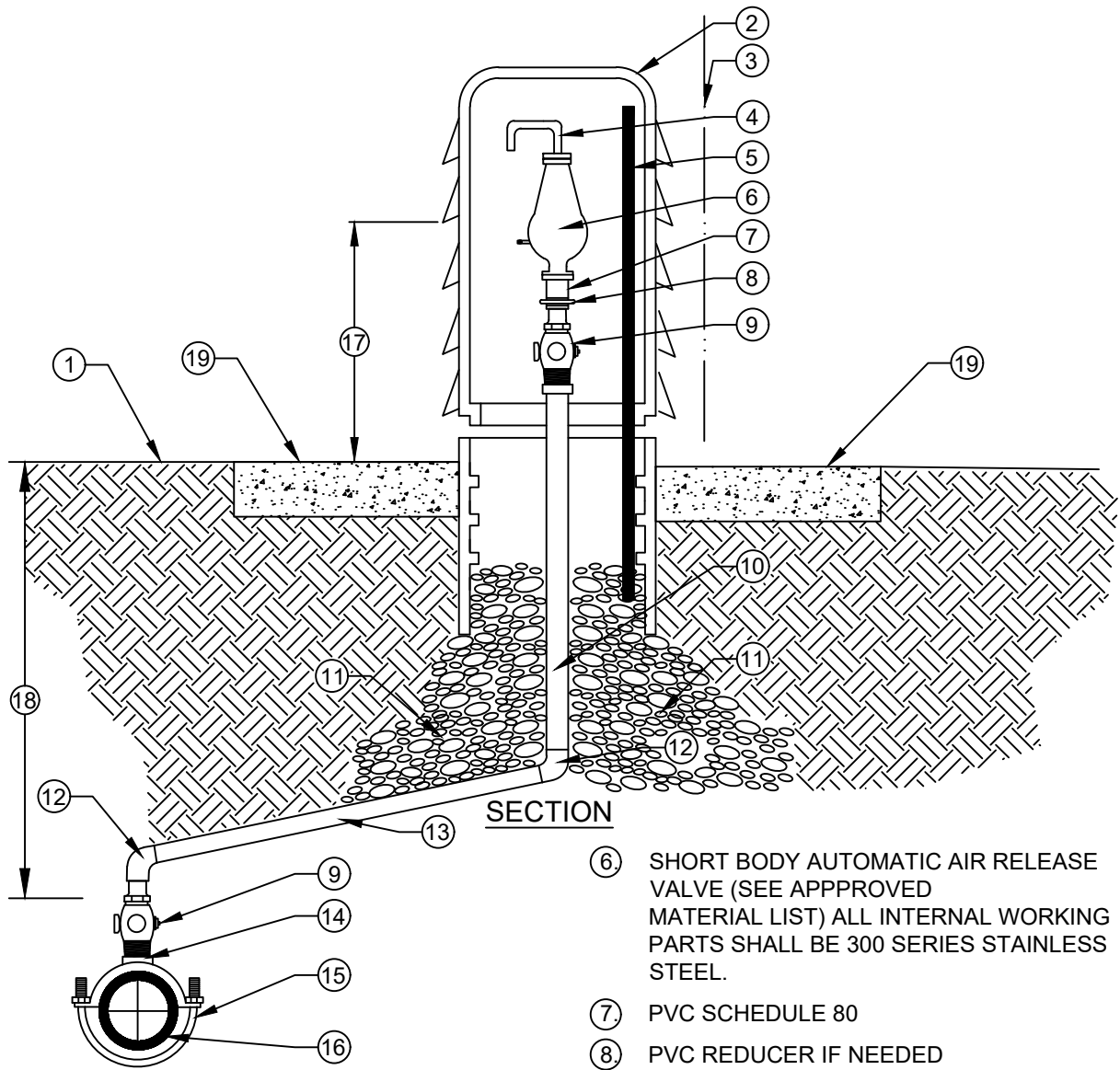
NOTES:

1. WIRE SHALL BE CONTINUOUS BETWEEN VALVE BOXES, THE PVC RISER PIPE SHALL BE NOTCHED AND THE WIRE ATTACHED TO THE RISER PIPE TO ALLOW FOR THE WIRE TO FIT INSIDE THE CAST IRON VALVE BOX WITHOUT SHEARING THE WIRE.
2. LOCATING WIRE SHALL BE LAID ON TOP OF THE MAIN, AND SHALL BE TAPED TO IT AT 10' INTERVALS AND TAPED AT ALL FITTINGS. TAPE SHALL BE 10 MIL POLYETHYLENE.
3. CONTRACTOR SHALL CONDUCT A CONTINUITY TEST ON ALL LOCATING WIRE SPLICES. PRIOR TO SCHEDULING THE OFFICIAL FINAL INSPECTION WITH LCU.
4. ALL SPLICES SHALL UTILIZE A DIRECT BURY WATERPROOF SPLICE KIT. (SEE APPROVED MATERIAL LIST)

- ①. SPLICE RUN TOGETHER, KEEP CLEAR OF FITTING, TYPICAL
- ②. COVER SPLICE WITH 2 WRAPS OF 10 MIL. POLYETHYLENE TAPE
- ③. 6" LOOP OF BARE WIRE, 9" MAX DEPTH TO TOP OF BARE WIRE
- ④. 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE
- ⑤. SPLICE (SEE DETAIL THIS SHEET)


NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>
TITLE: LOCATING WIRE FOR PRESSURE MAINS	
<small>REVISION:</small> 1/26/24	<small>DETAIL NO:</small> G-03.dwg

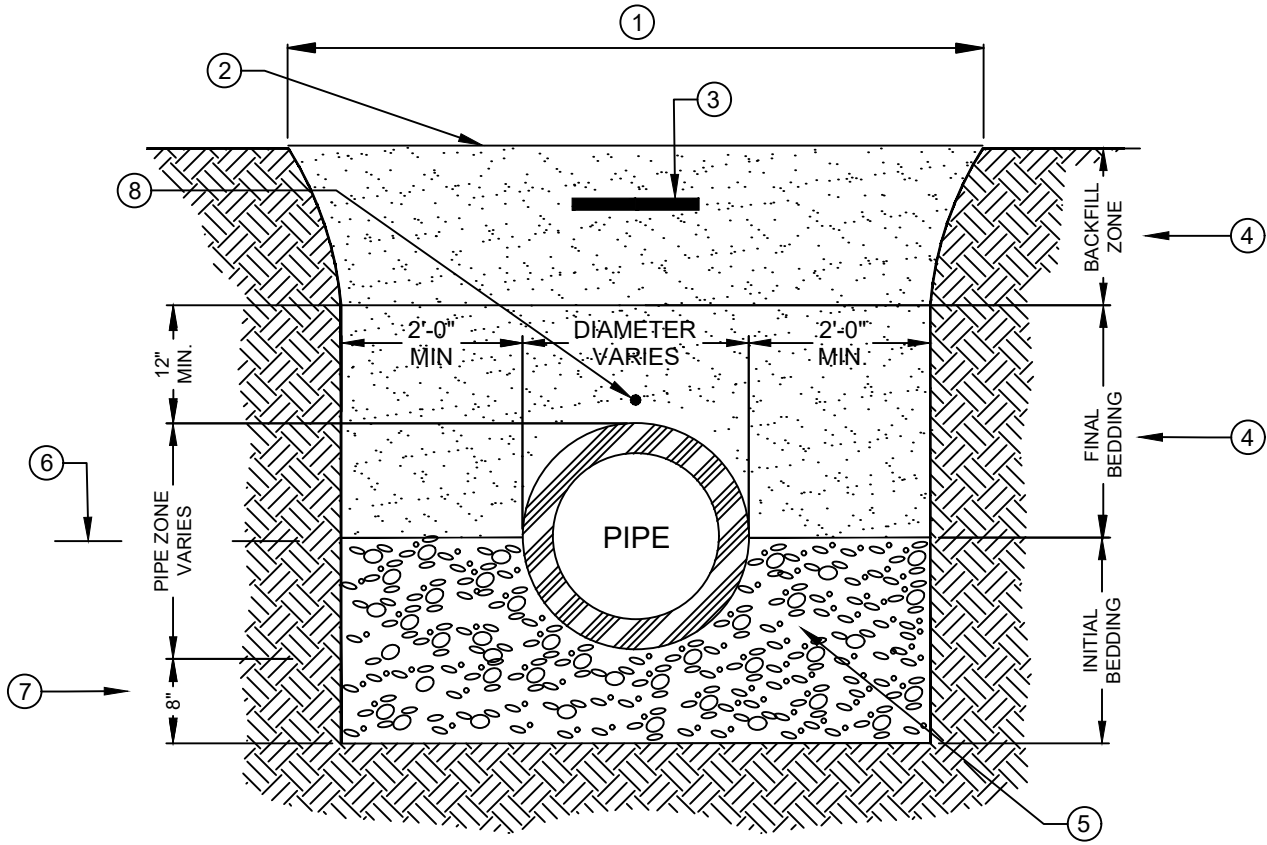


- ① FINISHED GRADE
- ② PEDESTAL HOUSING (SEE APPPROVED MATERIAL LIST)
COLORS: BLUE - WATER, GREEN - SEWER, PANTONE - REUSE
- ③ EDGE OF RIGHT-OF-WAY
- ④ PVC STREET ELL
- ⑤ S.S. POST WITH S.S. HASRDWARE & S.S. LOCKING HASP WITH BRASS LOCK

- ⑥ SHORT BODY AUTOMATIC AIR RELEASE VALVE (SEE APPPROVED MATERIAL LIST) ALL INTERNAL WORKING PARTS SHALL BE 300 SERIES STAINLESS STEEL.
- ⑦ PVC SCHEDULE 80
- ⑧ PVC REDUCER IF NEEDED
- ⑨ BRASS BALL CORP. STOP
- ⑩ 2" POLY-TUBE
- ⑪ ¾" GRANULAR MATERIAL, #57 STONE
- ⑫ 2" BRASS FITTING IF NECESSARY
- ⑬ 1% MIN. SLOPE UP, 2" POLY-TUBE
- ⑭ TAP AT CROWN OF PIPE
- ⑮ 2" DOUBLE STRAP TAPPING SADDLE (SEE APPPROVED MATERIAL LIST)
- ⑯ EXISTING PRESSURE MAIN
- ⑰ 24"
- ⑱ 30" MIN.
- ⑲ 30"X30"X6" MIN. CONCRETE PAD


	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: ARV DETAIL	
<small>REVISION:</small> 5/31/24	<small>DETAIL NO:</small> G-04.dwg	

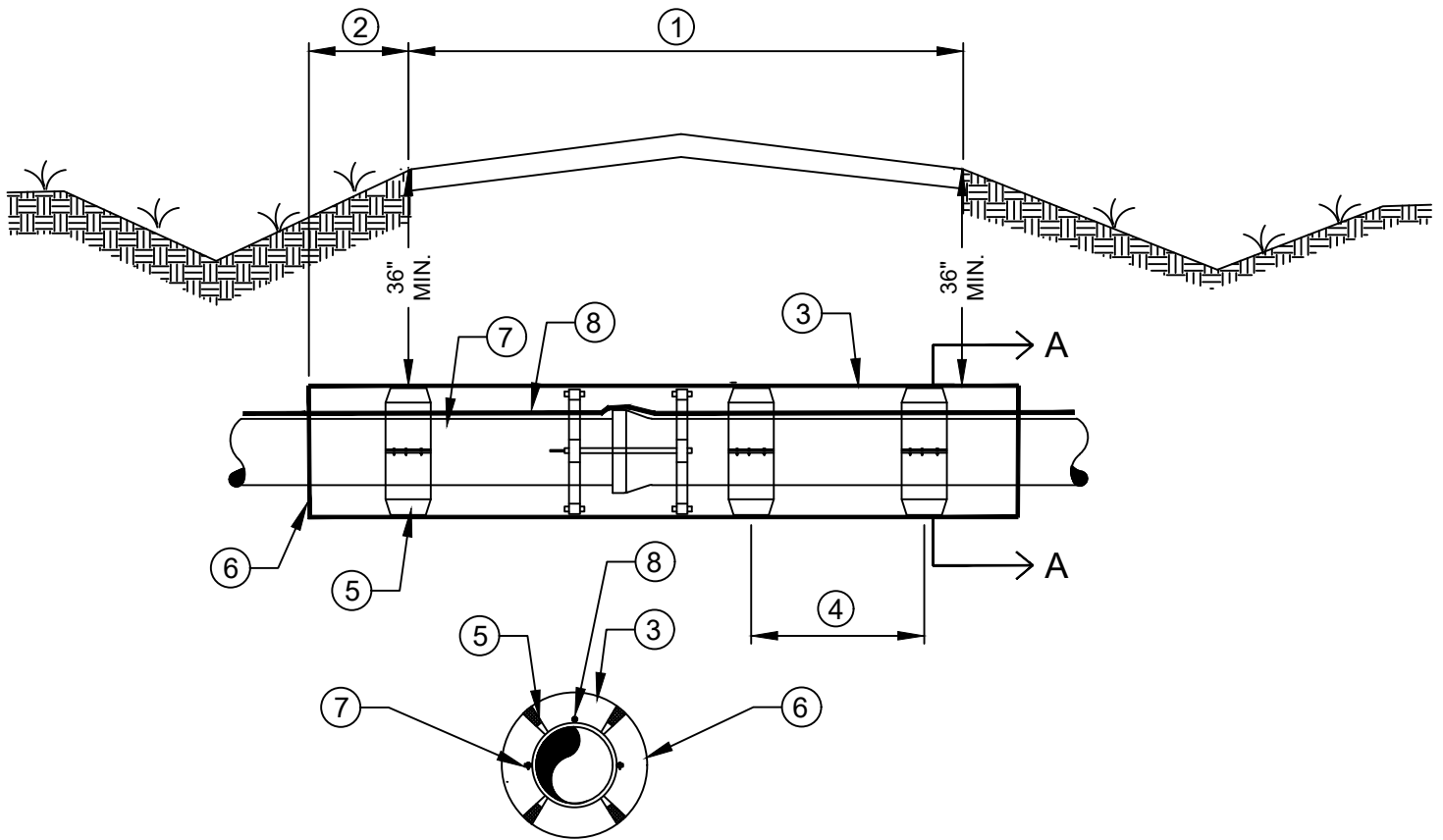
NOT TO SCALE



- ① EXCAVATED TRENCH
- ② FINISHED GRADE
- ③ MARKING TAPE 12" DEPTH MAX.
- ④ MATERIALS CLEAN DRY SAND, FINE LIME ROCK OR PIT SHELL MECHANICALLY COMPACTED IN 6" LIFTS TO AT LEAST 95% OF MAX. DENSITY, OR 98% IF UNDER PAVED AREA OF ROADWAY.
- ⑤ #57 STONE LOCATED UNDER PIPE OR EXISTING UNDISTURBED SUITABLE MATERIAL
- ⑥ SPRING LINE
- ⑦ STANDARD 8" MIN TRENCH UNDERCUT AND BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS ADDITIONAL UNDERCUT AND CRUSHED ROCK BEDDING FOUNDATION WHEN DIRECTED BY L.C.U. THE CONTRACTOR IS TO REMOVE UNSTABLE MATERIAL FROM THE TRENCH FOUNDATION. THEN INSTALL STABILIZED CRUSHED ROCK BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS
- ⑧ LOCATING WIRE IS REQUIRED FOR ALL PRESSURIZED PIPELINES.

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TRENCH CROSSING	
<small>REVISION:</small> 1/29/24	<small>DETAIL NO.:</small> G-05.dwg	



SECTION A-A

- ① LIMITS OF PAVEMENT
- ② EXTEND CASING 4' MIN. BEYAND E.O.P. AND/OR BACK OF CURB FOR L.C.D.O.T. MAINTAINED R.O.W. AND 8' MIN. FOR F.D.O.T. MAINTAINED R.O.W.
- ③ STEEL CASING PIPE CONFORMING TO ASTM A-139
- ④ 7' O.C. MAX OR AS PER MANUFACTURER'S RECCOMENDATION
- ⑤ L.C.U. APPROVED CASING SPACERS
- ⑥ SEAL CASING ENDS WITH: 8" WALL OF BRICK MASONRY WITH WEEP HOLE INSTALLED NEAR BOTTOM, OR APPROVED EQUAL
- ⑦ ALL JOINTS OF THE CARRIER PIPE SHALL HAVE BELL RESTRAINTS
- ⑧ 10 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL G-03)



LEE COUNTY
UTILITIES
ENGINEERING

1500 MONROE STREET
FORT MYERS, FLORIDA 33901

TITLE:

JACK AND BORE

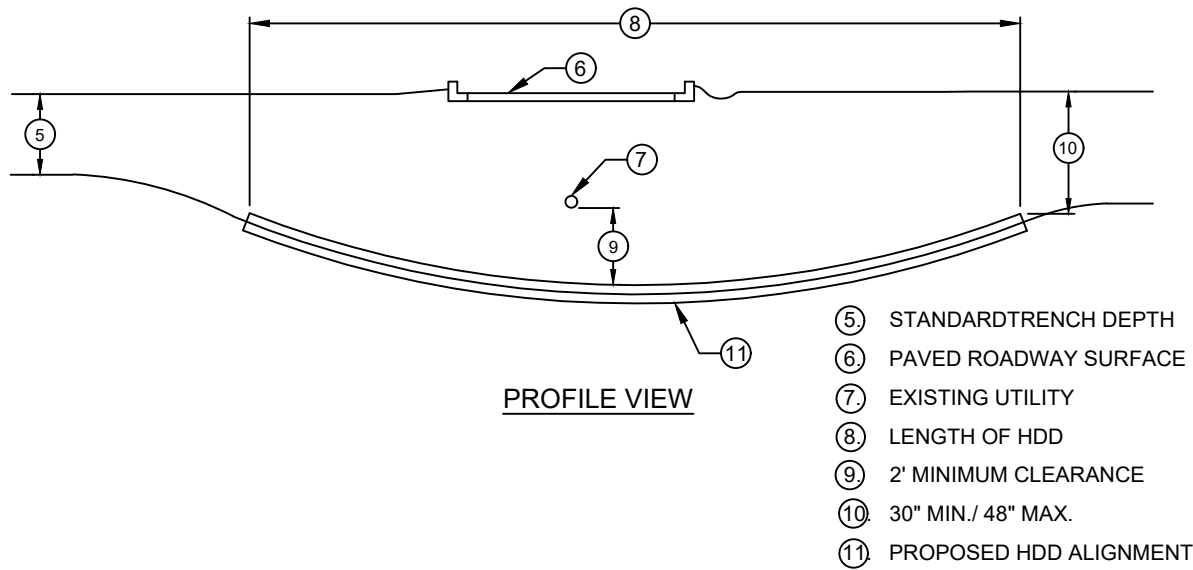
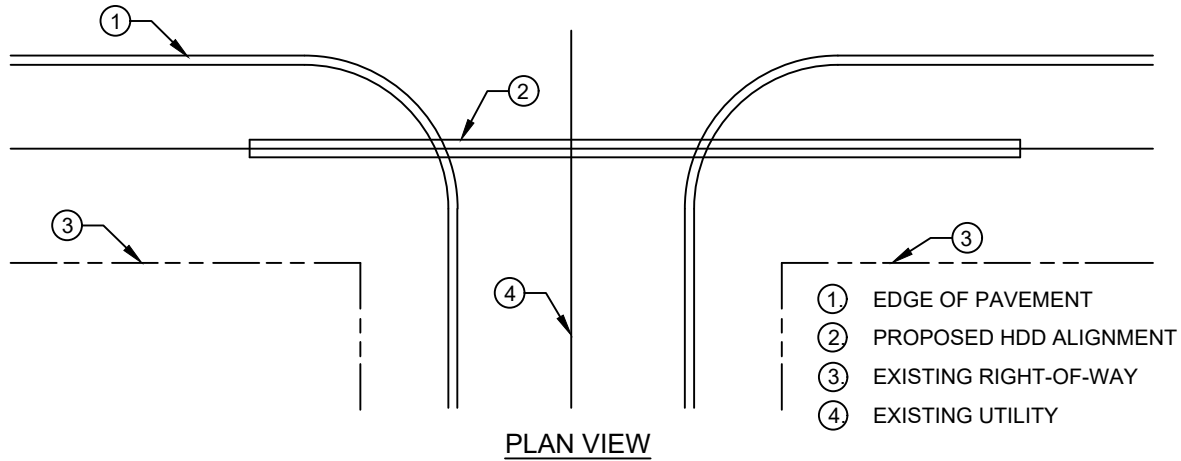
REVISION:

1/29/24

DETAIL NO:

G-06.dwg


NOT TO SCALE

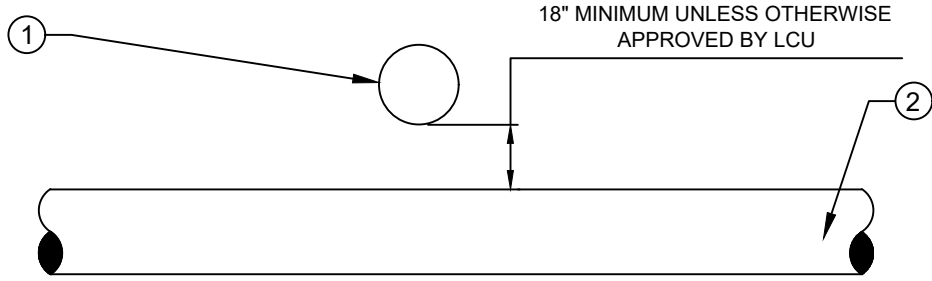


HDD INSTALLATION NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LEE COUNTY UTILITIES DESIGN MANUAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
4. ALL RESTORATION WORK SHALL BE DONE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
5. CASING DIAMETER SHALL BE IN ACCORDANCE WITH THE LCU DESIGN MANUAL.
6. NO CASING SPACERS REQUIRED.
7. WHEN CASING IS REQUIRED, INSTALL 1" HDPE PIPE ATTACHED TO THE CARRIER PIPE WITH 12 GAUGE DOUBLE INSULATED COPPER WIRE INSIDE THE HDPE PIPE.

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: HORIZONTAL DIRECTIONAL DRILL UNDER ROADWAY	
<small>REVISION:</small> 1/30/24	<small>DETAIL NO:</small> G-07.dwg	

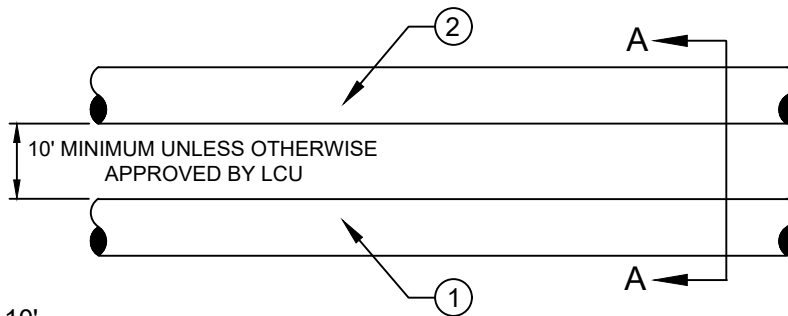


SECTION

- ① WATER MAIN
- ② SANITARY SEWER MAIN

CROSSING

NOTE: IF LESS THAN 18" CLEARANCE
ENCASE WATER MAIN IN
STEEL CASING

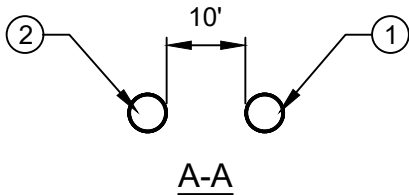


PLAN


- ① WATER MAIN
- ② SANITARY SEWER MAIN

PARALLEL

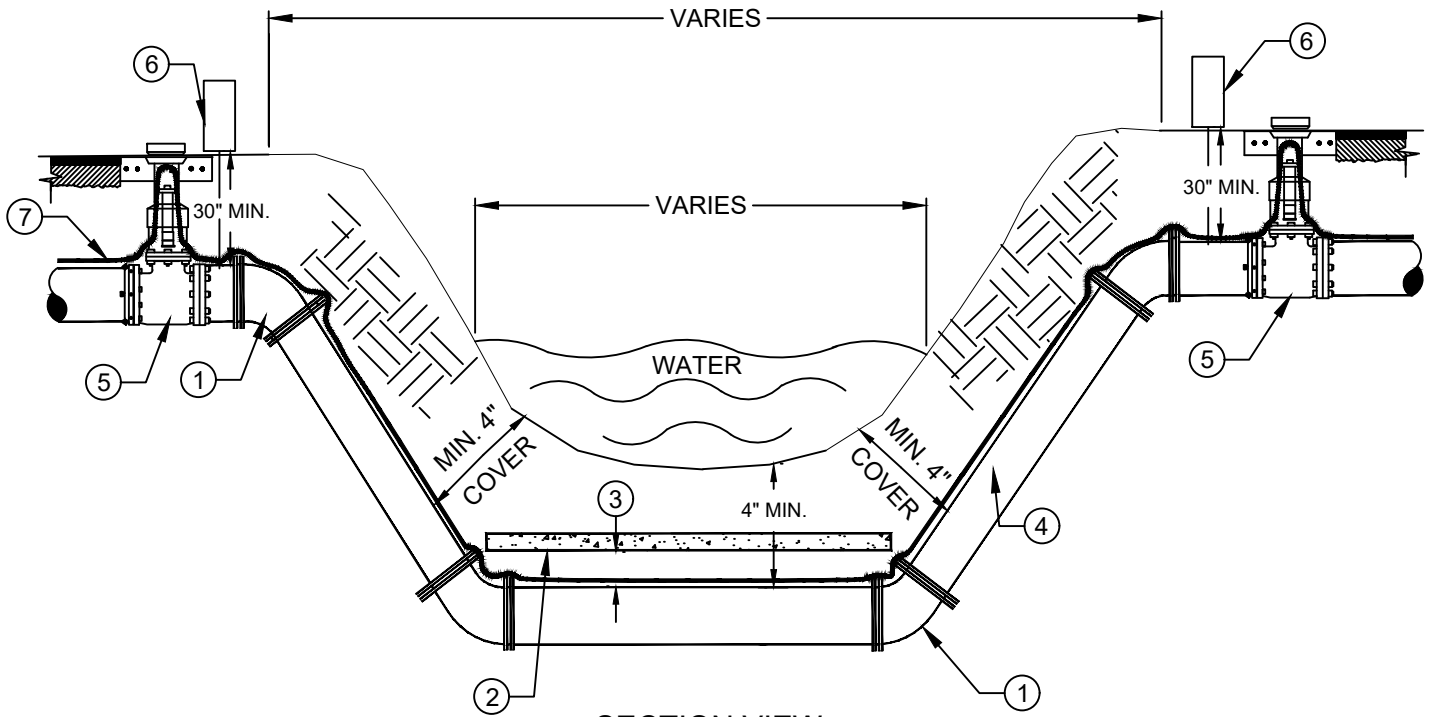
NOTE: IF LESS THAN 10' CLEARANCE
ENCASE WATER MAIN IN
STEEL CASING



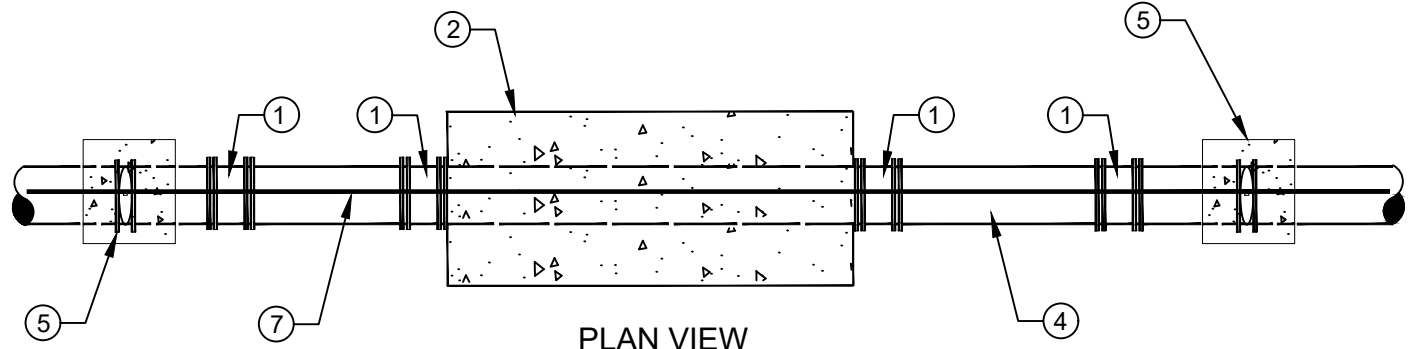
A-A

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: WATER AND SEWER CROSSING	
<small>REVISION:</small> 6/27/24	<small>DETAIL NO:</small> G-08.dwg	

NOT TO SCALE




SECTION VIEW



PLAN VIEW

- ① 45° M.J. ELBOW RESTRAINED
- ② 2,500 MIN. P.S.I. CONCRETE PROTECTIVE PAD 4' WIDE MIN. X 4" THICK X OVERALL LENGTH OF PIPELINE CROSSING
- ③ 6" MIN. COMPACTED MATERIAL OR #57 STONE
- ④ USE PVC C-900 DR 14 MIN. FOR ALL SEWAGE FORCE MAINS. USE PRESSURE CLASS 350 DIP FOR ALL WATER MAINS
- ⑤ GATE VALVE OR PLUG VALVE INSTALL ATION PER LCU STANDARD DETAIL
- ⑥ AIR RELEASE VALVE (SEE APPROVED MATERIAL LIST)
- ⑦ 12 GAUGE DOUBLE INSUATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAL)

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: SUBAQUEOUS CROSSING	
<small>REVISION:</small> 4/3/24	<small>DETAIL NO:</small> G-09.dwg	

PIPE SIZE	HORIZONTAL DEFLECTIONS				VERTICAL DEFLECTIONS		DEAD ENDS/ VALVES Lr (FT.)	REDUCERS (SEE NOTES)			TEES			
	90° BENDS Lr (FT.)	45° BENDS Lr (FT.)	22.5° BENDS Lr (FT.)	11.25° BENDS Lr (FT.)	45° BENDS (SEE NOTE 2)			SIZE	L(A) (FT.)	L(B) (FT.)	RUN SIZE	BRANCH SIZE	Lm (FT.)	Lbr (FT.)
					Lhs (FT.)	Lls (FT.)								
4"	27	11	5	3	31	8	60	6 x 4	64	43	4"	4"	10	11
6"	37	15	7	4	43	11	84	8 x 6	60	46	6"	6" 4" OR LESS	10	34
8"	48	20	10	5	57	15	110	8 x 4	153	79			10	FITTING ONLY
10"	57	24	11	6	68	17	131	10 x 8	55	44	8"	8" 6" 4" OR LESS	10	59
								10 x 6	133	81			10	17
12"	57	24	11	6	68	19	131	12 x 10	46	38	10"	10" 8" 6" OR LESS	10	80
16"	58	24	12	6	55	19	106	12 x 8	104	69			10	45
20"	70	29	14	7	67	23	129	16 x 12	61	45	12"	12" 10" 8" 6" OR LESS	10	79
								16 x 10	103	63			10	49
24"	81	33	16	8	78	27	150	20 x 16	58	45	16"	16" 12" 10" 8" OR LESS	10	15
								20 X 12	139	81			10	73
								24 x 20	55	45			10	38
								24 x 16	128	82			10	16
20"	70	29	14	7	67	23	129	16 x 10	103	63	12"	12" 10" 8" 6" OR LESS	10	24
													10	63
													10	95
24"	81	33	16	8	78	27	150	20 x 16	58	45	16"	16" 12" 10" 8" OR LESS	10	116
													10	87
													10	53
													10	10
24"	81	33	16	8	78	27	150	20 x 16	58	45	16"	16" 12" 10" 8" OR LESS	10	FITTING ONLY
													10	116
													10	87
													10	53

NOTES:

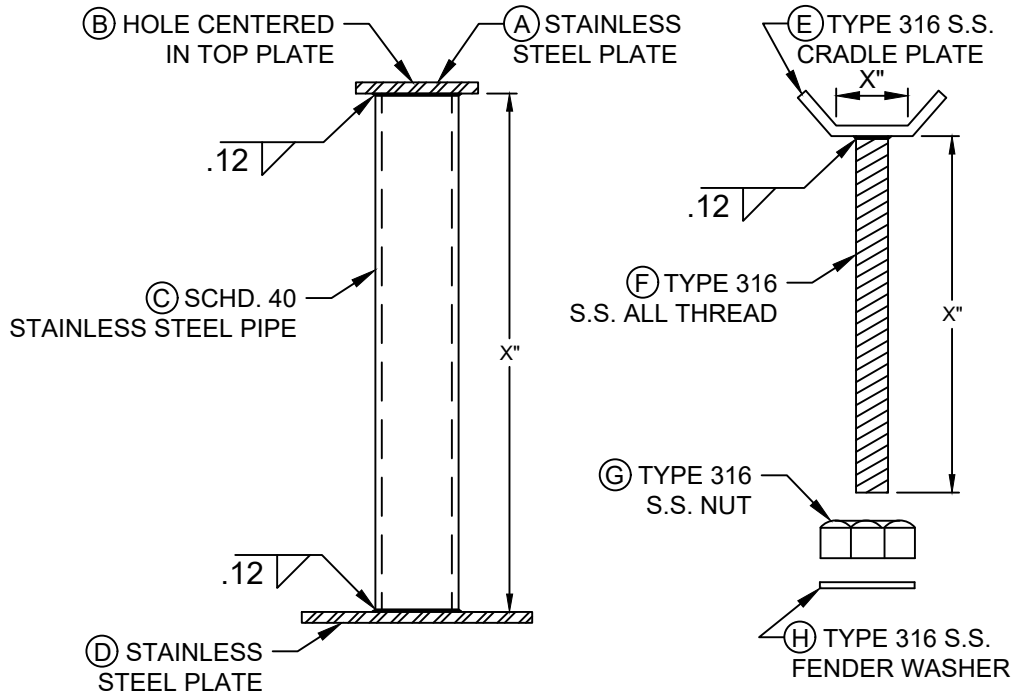
- LENGTHS SHOWN IN THIS TABLE ARE TO BE INTERPRETED AS FOLLOWS:
 Lhs = RESTRAINED LENGTH FROM HIGH SIDE FITTING OF A VERTICAL DEFLECTION
 Lls = RESTRAINED LENGTH FROM LOW SIDE FITTING OF A VERTICAL DEFLECTION
 Lr = RESTRAINED LENGTH ON BOTH SIDES FROM FITTING
 Lm = MINIMUM LENGTH TO FIRST JOINT OF RUN ON BOTH SIDES
 Lbr = RESTRAINED LENGTH REQUIRED ON BRANCH FROM FITTING
 L(A) = LENGTH OF PIPE ON SMALL SIDE FREE OF FITTING
 L(B) = RESTRAINED LENGTH ON LARGE SIDE OF REDUCER
- A SAFETY FACTOR = 2.5 IS USED FOR VERTICAL DEFLECTIONS TO COMPENSATE FOR SATURATED SOIL CONDITIONS.
 A SAFETY FACTOR = 2.0 IS USED FOR ALL OTHER CASES.
- L(A) AND L(B) ABOVE ARE TWO OPTIONS FOR PROVIDING THRUST RESTRAINT FOR THE REDUCER. EITHER L(A) LENGTH OF PIPE FREE OF FITTINGS (BENDS, TEES, REDUCERS, VALVES) ON THE SMALL SIDE OF THE REDUCER OR L(B) RESTRAINED LENGTH ON THE LARGE SIDE OF THE REDUCER WILL PROVIDE THE REQUIRED RESTRAINT. NO RESTRAINT IS REQUIRED ON THE SMALL SIDE OF A REDUCER.
- ALL DEAD END LINES OR VALVES, PERMANENT OR TEMPORARY, SHALL BE RESTRAINED PER THE ABOVE RESTRAINT

TABLE.

RESTRAINT TABLE

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	RESTRAINED LENGTH SCHEDULE	
<small>REVISION:</small> 6/17/24	<small>DETAIL NO:</small> G-10.dwg	



X" LENGTH VARIES DEPENDING ON OBJECT BEING SUPPORTED
SEE TABLE THIS SHEET FOR DIMENSIONS A THRU H

PIPING SUPPORT

PIPING SUPPORT DIMENSIONS			
	FOR 3/4" & 1"	FOR 1-1/2" TO 3"	FOR 4" & LARGER
(A)	1/4" X 3" X 3"	1/4" X 3-1/4" X 3-1/4"	1/4" X 5" X 5"
(B)	1.0"	1.0"	1-1/2"
(C)	2.0"	2-1/2"	4"
(D)	1/4" X 6" X 6"	1/4" X 8" X 8"	1/4" X 10" X 10"
(E)	1/4" X 2" X 4"	1/2" X 2" X 4"	1/2" X 4" X 6"
(F)	3/4"	7/8"	1-1/4"
(G)	3/4"	7/8"	1-1/4"
(H)	1.0"	1.0"	1-1/2"

NOTE:

- HOT DIPPED GALVANIZED STEEL MAY BE USED IN PLACE OF STAINLESS STEEL.



LEE COUNTY
UTILITIES
ENGINEERING

1500 MONROE STREET
FORT MYERS, FLORIDA 33901

TITLE:

**PIPING
SUPPORT**

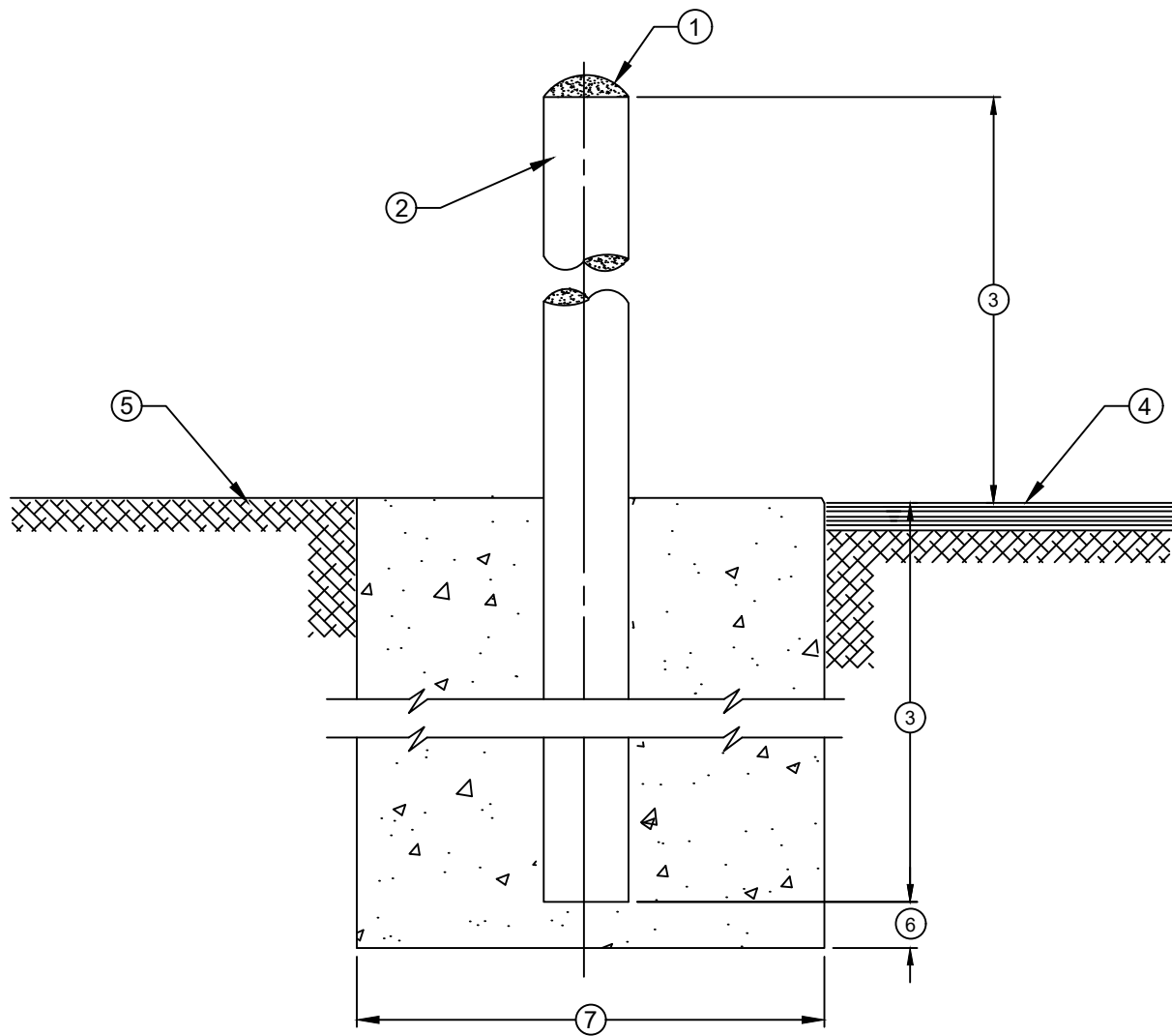
REVISION:

4/4/24

DETAIL NO:

G-11.dwg

NOT TO SCALE




- ① FILL AND TOP PIPE WITH CONCRETE
- ② 6" DIA. X 6'-0" LONG PRESSURE CLASS 350 D.I.P.
- ③ 3'-0" MINIMUM
- ④ PAVEMENT
- ⑤ FINISHED GRADE
- ⑥ 3"
- ⑦ 18" DIA. CONCRETE ENCASEMENT 3000 P.S.I.

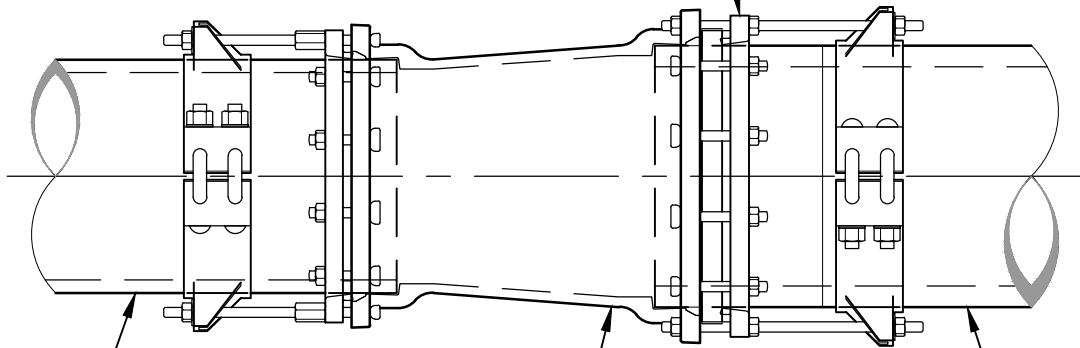
NOTE:

- 1. PAINT BOLLARD TO LCU STANDARDS - SAFETY YELLOW

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: BOLLARD POST DETAIL	
<small>REVISION:</small> 4/4/24	<small>DETAIL NO:</small> G-12.dwg	

HDPE MJ ADAPTER KIT W/STAINLESS
STEEL STIFFENER, DUCTILE IRON
MEGALUG MJ RESTRAINT, GASKET
TEE HEAD BOLTS & NUTS
(SEE APPROVED MATERIALS LIST)



OPEN CUT PIPE
(SEE PLANS FOR
SIZE & MATERIAL)

DUCTILE IRON, MECHANICAL
JOINT, REDUCER OR SLEEVE
WITH LINING APPROPRIATE
TO SERVICE

HDPE PIPE
(SEE PLANS FOR
SIZE)

NOT TO SCALE



LEE COUNTY
UTILITIES
ENGINEERING

1500 MONROE STREET
FORT MYERS, FLORIDA 33901

TITLE:

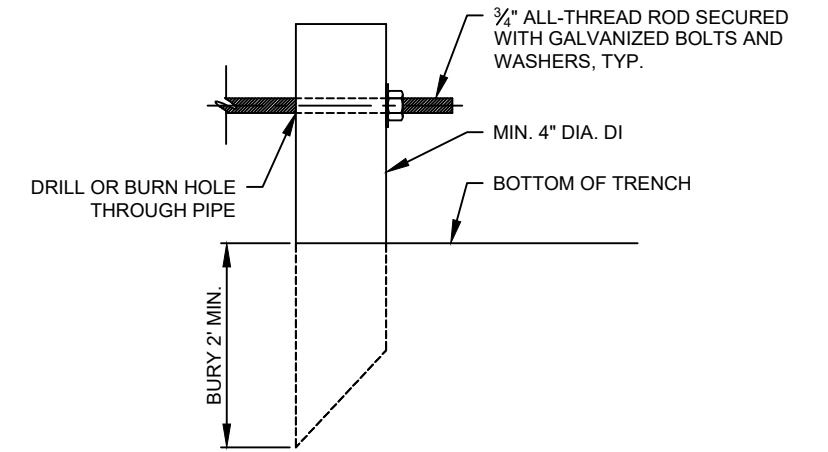
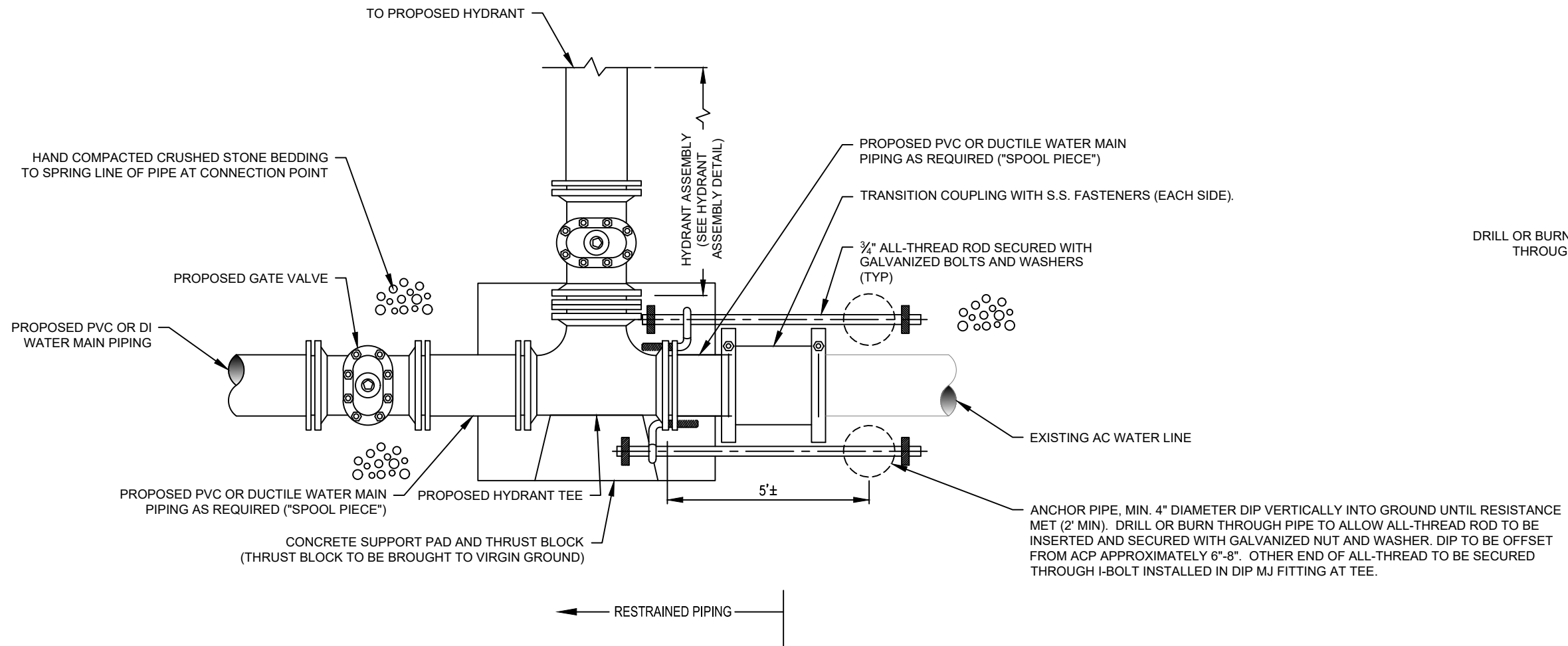
**HDPE TRANSITION
CONNECTION**

REVISION:

4/12/24

DETAIL NO:

G-13.dwg




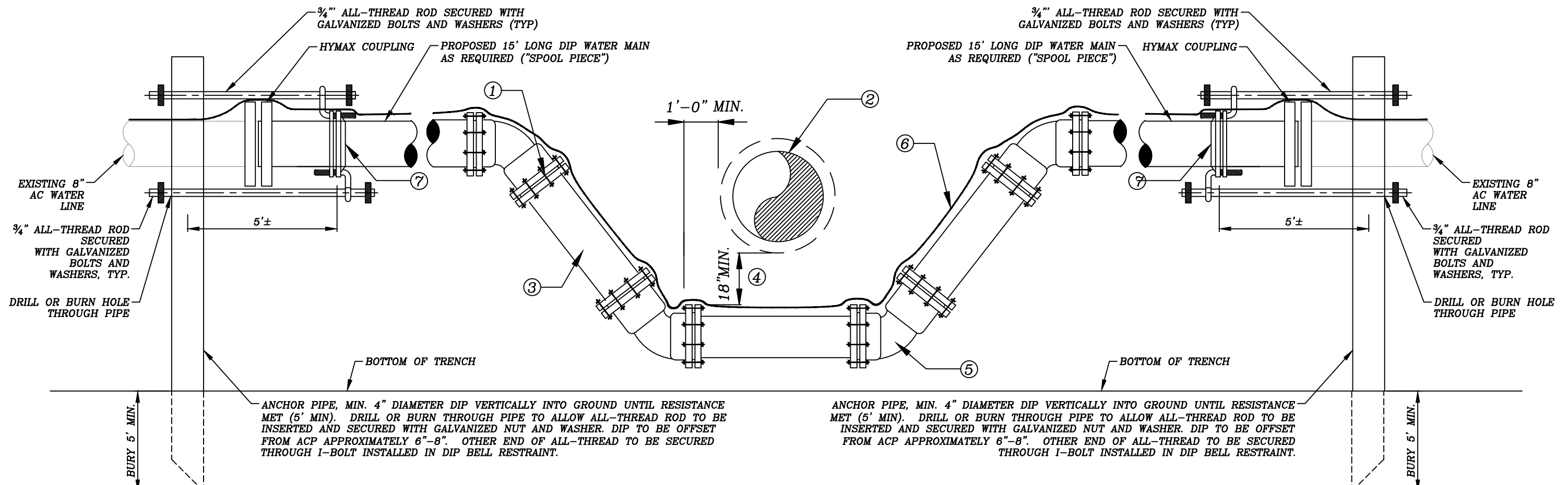
ANCHOR PIPE

NOTES:

1. CONNECTION TO EXISTING AC WATER LINE SHALL BE ACCOMPLISHED WITH DUCTILE IRON (MJ) FITTINGS, DR-18 PVC PIPING ("SPOOL PIECE") AND TRANSITION COUPLING(S) WITH STAINLESS STEEL FASTENERS (PIPING MUST BE RESTRAINED IN ALL DIRECTIONS). ALL CUTTING OF AC PIPING SHALL BE ACCOMPLISHED WITH WET CUTTING.
2. FOR PRODUCTS AND MATERIALS SEE THE PROJECT SPECIFICATIONS AND QUALIFIED PRODUCTS LIST.
3. CONTRACTOR SHALL INSTALL A TRACING WIRE ALONG THE TRANSITION COUPLING AND VALVES.
4. ADD TRACER WIRE PER LCU STANDARD DETAIL G-03.
5. CONCRETE TO EXTEND 6" PAST ALL TEE CONNECTIONS. PLASTIC SHEETING (VISQUEEN) WRAPPED AROUND FITTING.

NOT TO SCALE

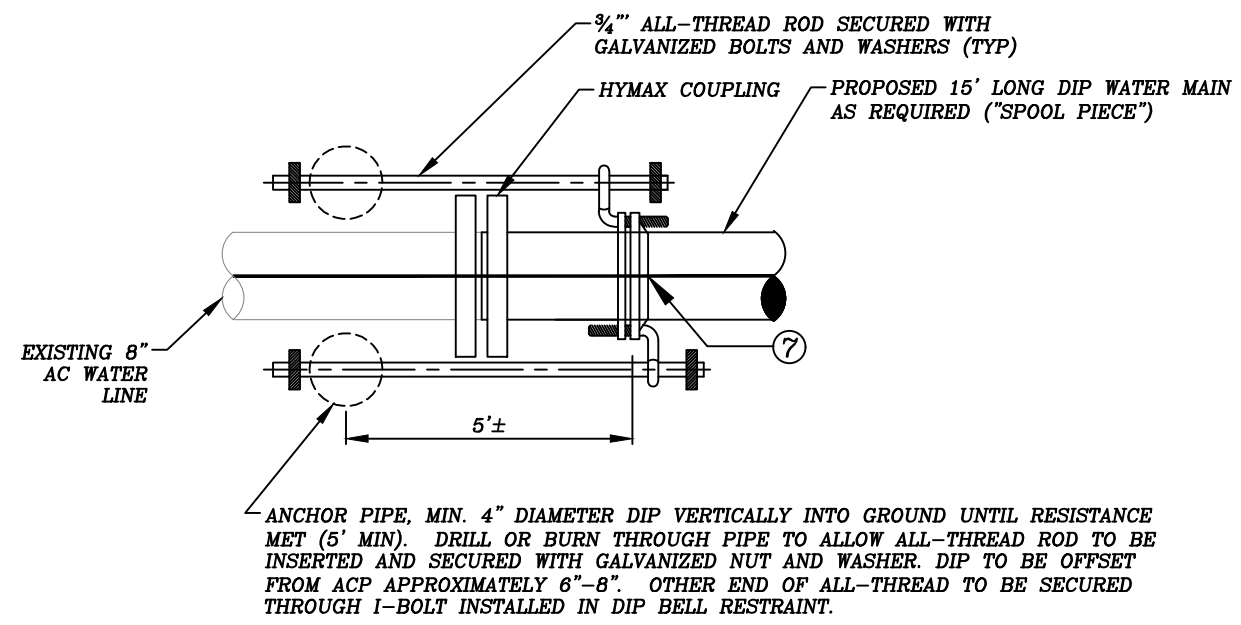
	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: AC MAIN CONNECTION	
REVISION: 3/20/24	DETAIL NO: G-14.dwg	



ANCHOR PIPE, MIN. 4" DIAMETER DIP VERTICALLY INTO GROUND UNTIL RESISTANCE MET (5' MIN). DRILL OR BURN THROUGH PIPE TO ALLOW ALL-THREAD ROD TO BE INSERTED AND SECURED WITH GALVANIZED NUT AND WASHER. DIP TO BE OFFSET FROM ACP APPROXIMATELY 6"-8". OTHER END OF ALL-THREAD TO BE SECURED THROUGH 1-BOLT INSTALLED IN DIP BELL RESTRAINT.


ANCHOR PIPE, MIN. 4" DIAMETER DIP VERTICALLY INTO GROUND UNTIL RESISTANCE MET (5' MIN). DRILL OR BURN THROUGH PIPE TO ALLOW ALL-THREAD ROD TO BE INSERTED AND SECURED WITH GALVANIZED NUT AND WASHER. DIP TO BE OFFSET FROM ACP APPROXIMATELY 6"-8". OTHER END OF ALL-THREAD TO BE SECURED THROUGH 1-BOLT INSTALLED IN DIP BELL RESTRAINT.

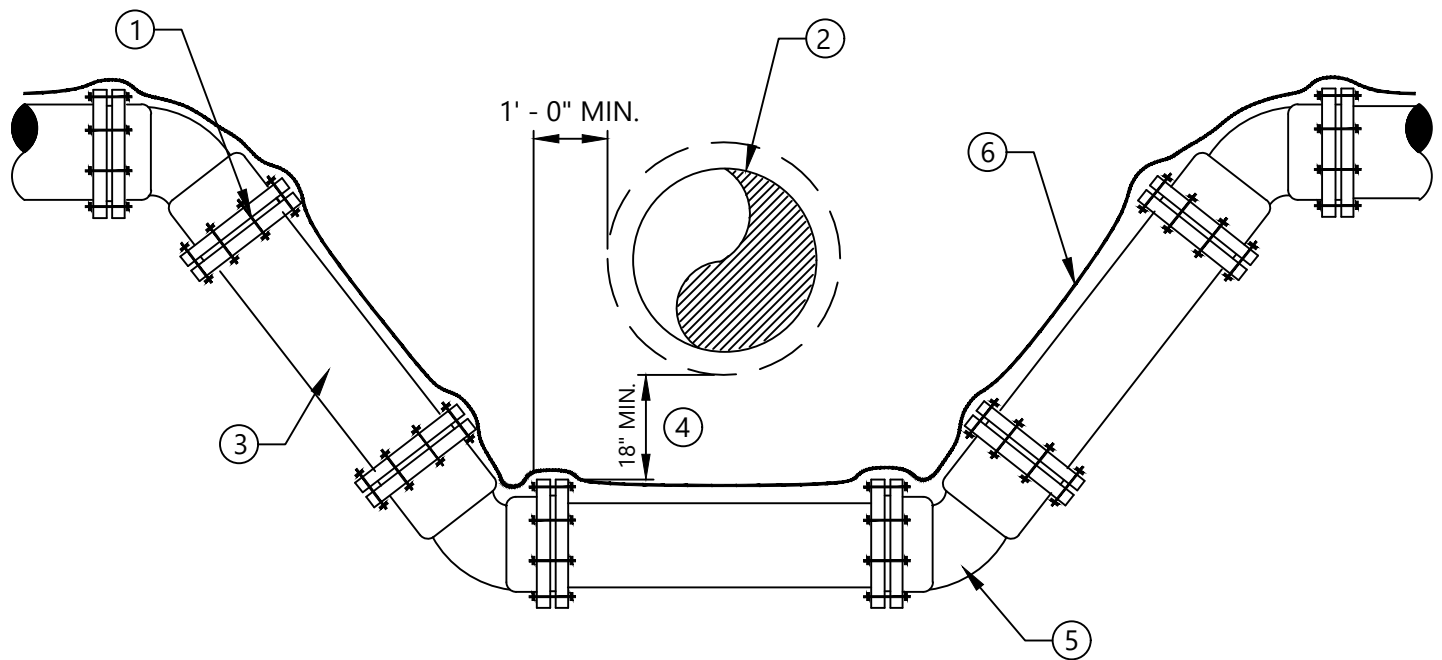
- ① LCU APPROVED JOINT RESTRAINT FOR D.I., M.J. PIPE AND FITTINGS PLACED IN ACCORDANCE WITH JOINT RESTRAINT SCHEDULE. (SEE DETAIL 6.12)
- ② CONFLICT PIPE
- ③ LCU APPROVED DUCTILE IRON PIPING PRESSURE CLASS 350
- ④ 18" MIN. UNLESS OTHERWISE APPROVED BY LCU
- ⑤ 45° MECHANICAL JOINT FITTING, TYPICAL
- ⑥ 10 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL)
- ⑦ BELL RESTRAINT



RESTRAINT PLAN VIEW


NOT TO SCALE

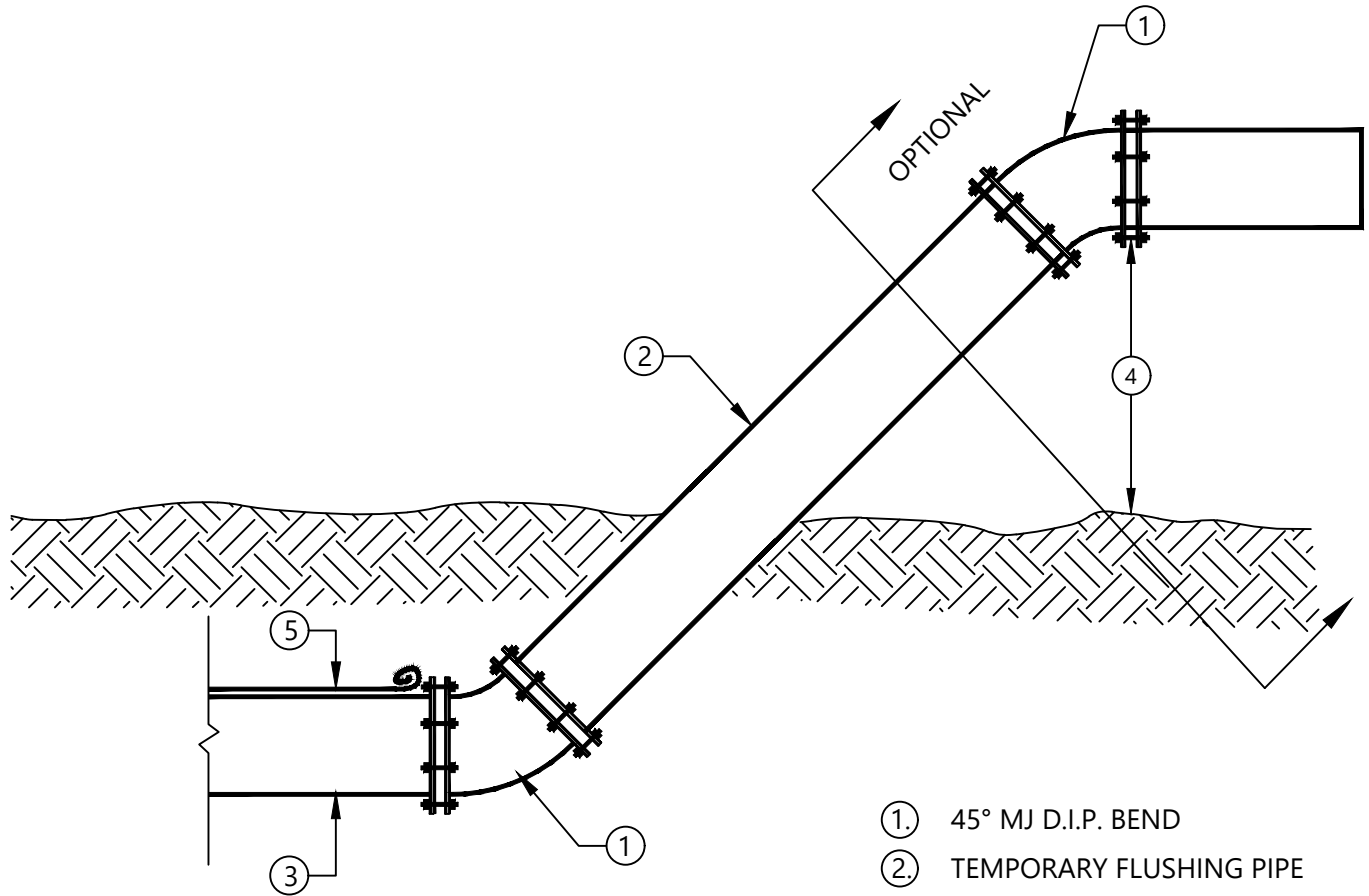
	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: AC MAIN CONNECTION WITH RESTRAINTS	
REVISION: 3/20/24	DETAIL NO: G-15.dwg	



- ①. LCU APPROVED JOINT RESTRAINT FOR D.I., M.J. PIPE AND FITTINGS PLACED IN ACCORDANCE WITH JOINT RESTRAINT SCHEDULE (SEE DETAIL G-10).
- ②. CONFLICT PIPE
- ③. LCU APPROVED DUCTILE IRON PIPING PRESSURE CLASS 350
- ④. 18" MIN. UNLESS OTHERWISE APPROVED BY LCU
- ⑤. 45° MECHANICAL JOINT FITTING, TYPICAL
- ⑥. 10 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL)

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: WATER PRESSURE LINE VERTICAL OFFSET W/DIP & MJ FITTINGS	
REVISION: 2/27/24	DETAIL NO: W-01.dwg	




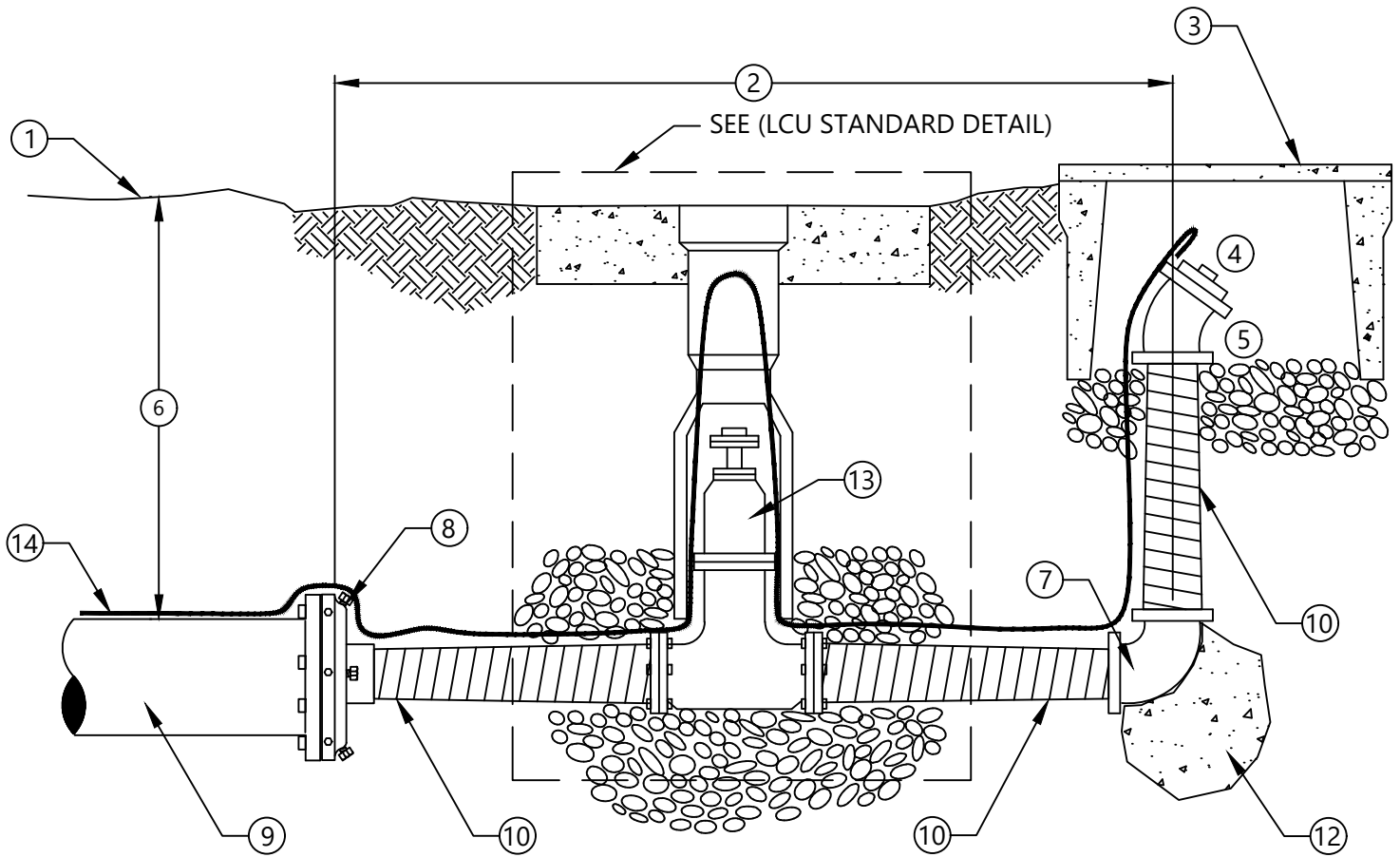
- ① 45° MJ D.I.P. BEND
- ② TEMPORARY FLUSHING PIPE
- ③ END OF WATER MAIN
- ④ 24" MIN.

NOTES:

1. FLUSHING DETAIL TO BE USED ON WATER LINES 8" DIAMETER OR GREATER.
2. FLUSHING PIPE SHALL BE THE SAME DIAMETER AS WATER MAIN.
3. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE FOR FLUSHED WATER.
4. PROVIDE M.J. CAP IF ASSEMBLY IS LEFT IN PLACE UNATTENDED.
5. 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: WATER MAIN FLUSHING DETAIL	
REVISION: 2/27/24	DETAIL NO: W-02.dwg	




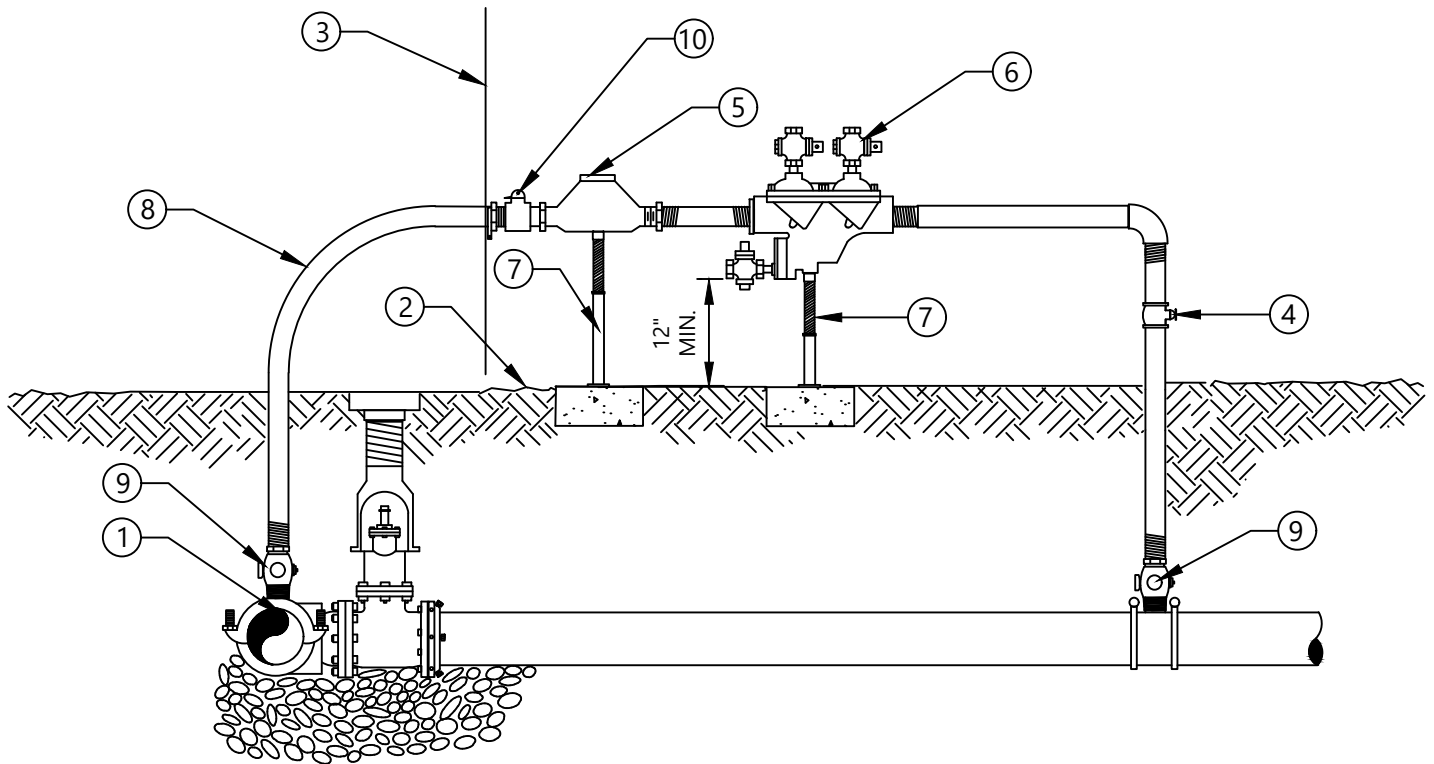
- | | |
|--|---|
| <ul style="list-style-type: none"> ① FINISHED GRADE ② 5'-0" MAX. ③ WATER METER BOX W/GRAVEL BOTTOM (SEE APPROVED MATERIAL LIST) ④ 2" THREADED PLUG (BRASS) ⑤ 2" - 45° BEND (BRASS) ⑥ 30" MIN." | <ul style="list-style-type: none"> ⑦ 2" - 90° BEND (BRASS) ⑧ M.J. CAP WITH 2" TAP ⑨ END OF WATER MAIN, R.J. PER SCHEDULE ⑩ 2" THREADED BRASS NIPPLE ⑪ NOT USED ⑫ POURED IN PLACE THRUST BLOCKING (SEE DETAIL X-XX) ⑬ 2" IRON BODY GATE VALVE, THREADED ⑭ 10 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL) |
|--|---|

NOTE:

ALL PIPING TO BE 2" THREADED FITTINGS OR SOLVENT

NOT TO SCALE

	<p style="margin: 0;">LEE COUNTY UTILITIES ENGINEERING</p> <p style="margin: 0; font-size: small;">1500 MONROE STREET FORT MYERS, FLORIDA 33901</p>
<p>TITLE: BLOW OFF DETAIL</p>	
REVISION:	2/27/24
DETAIL NO:	W-03.dwg




NOTES:

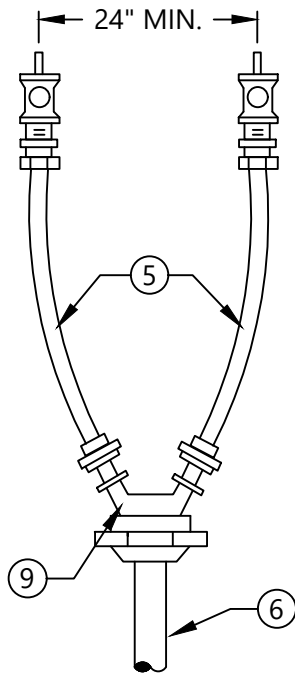
CONTRACTOR/CUSTOMER SHALL APPLY AT LEE COUNTY UTILITIES FOR TEMPORARY WATER SERVICE FIVE DAYS PRIOR TO REQUIRED SERVICE DATE. THE METER ONLY WILL BE FURNISHED BY LEE COUNTY UTILITIES. ALL FITTINGS, PIPING, VALVES AND MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR/CUSTOMER. THE APPROVED BACKFLOW PREVENTION DEVICE SHALL BE TESTED AND CERTIFIED BY LEE COUNTY UTILITIES APPROVED CERTIFIED BACKFLOW PREVENTION TECHNICIAN (FURNISHED BY CONTRACTOR/CUSTOMER) AT TIME OF METER INSTALLATION. CONTRACTOR/CUSTOMER SHALL PROTECT THE ASSEMBLY FROM DAMAGE. TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY SHALL NOT BE REMOVED UNTIL SYSTEM IS ACCEPTED AND DEPARTMENT OF HEALTH CERTIFICATION AND CLEARANCE FOR SERVICE FORM HAS BEEN RECEIVED BY LEE COUNTY UTILITIES. WHEN THE NEW SYSTEM IS ACCEPTED, THE TEMPORARY CONSTRUCTION JUMPER METER ASSEMBLY MUST BE COMPLETELY REMOVED DOWN TO CORP STOPS.

- ①. TAPPING SLEEVE AND VALVE TO BE FULLY RESTRAINED ON EXISTING MAIN (SEE LCU STANDARD DETAIL)
- ②. GRADE
- ③. PROPERTY LINE AND/OR RIGHT OF WAY LINE
- ④. BRONZE BALL VALVE
- ⑤. METER FURNISHED BY LEE COUNTY UTILITIES
- ⑥. REDUCED PRESSURE BACKFLOW PREVENTER
- ⑦. PIPE STAND (SEE LCU STANDARD DETAIL)
- ⑧. 2" DIA. HDPE DR9
- ⑨. 2" DIA. CORPORATION STOP
- ⑩. 2" DIA. CURB STOP

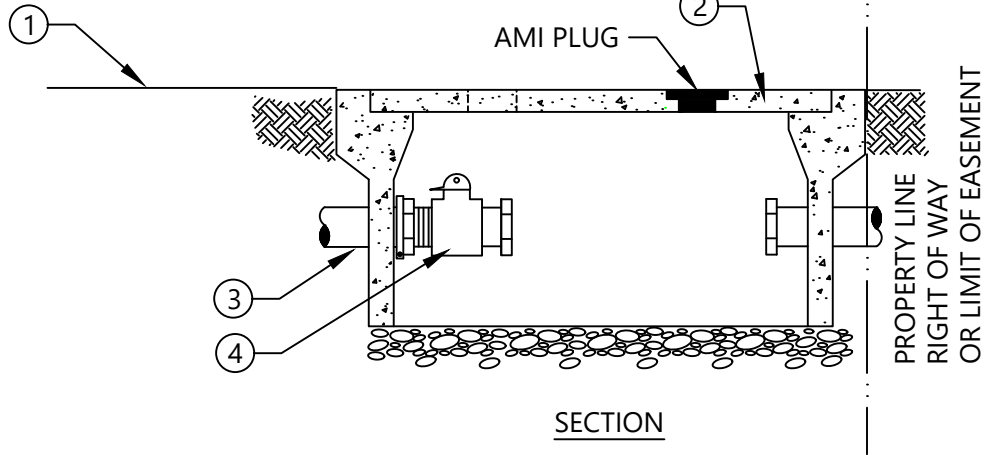
NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: TEMPORARY CONSTRUCTION JUMPER WITH METER	
REVISION: 2/27/24	DETAIL NO: W-04.dwg	

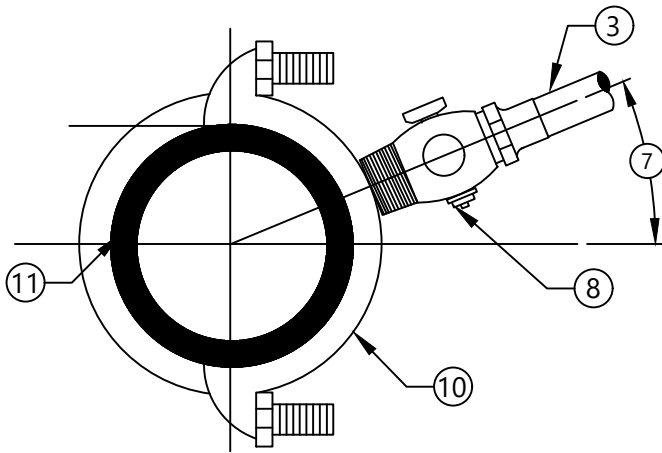
QUAZITE B001118501 METER BOX WITH
QUAZITE C00111802P050 COVER OR
CDR B001118501 METER BOX WITH CDR
C00111802P050X COVER.



PLAN VIEW



SECTION




SECTION

NOTES:

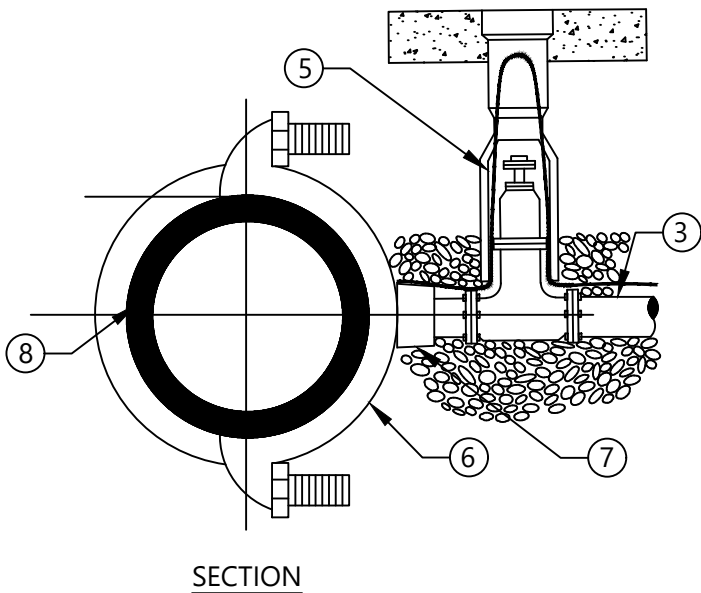
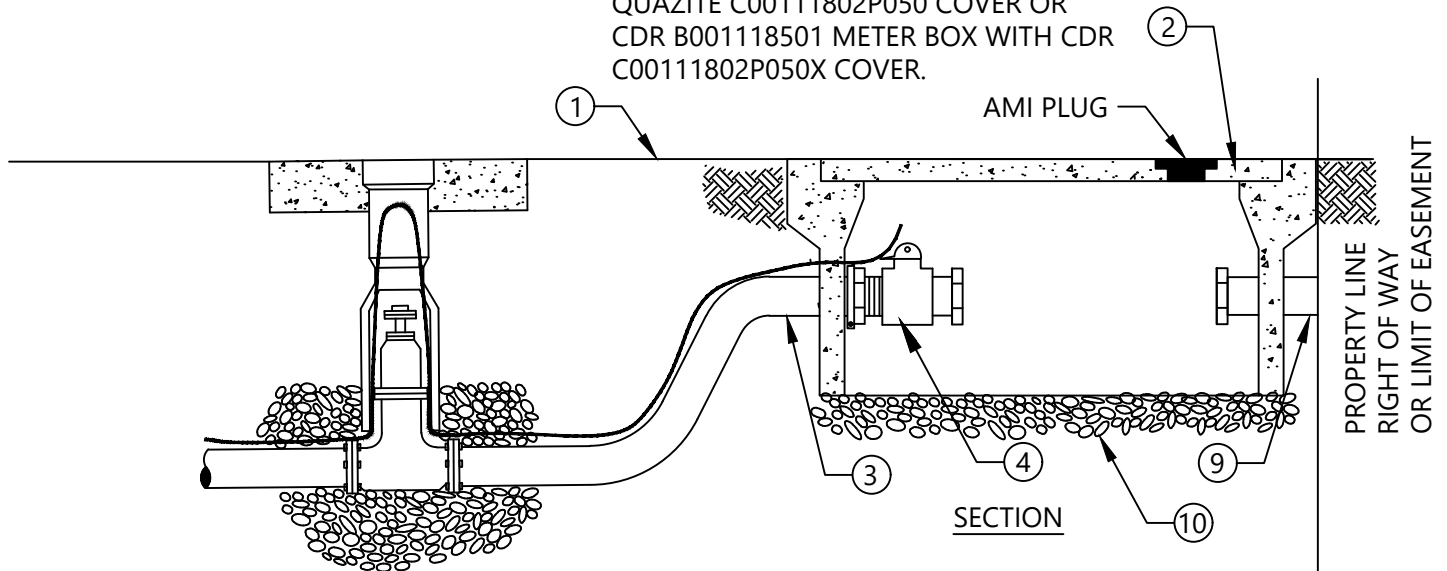
1. TUBING UNDER ROADWAY SHALL BE ENCASED IN 2" P.V.C. PIPE SCHEDULE 40 MINIMUM AND EXTEND 4 FEET BEYOND THE EDGES OF PAVEMENT OR BACK OF CURB.
2. ANY SERVICE TAPS THAT ARE APPROVED WITHIN PAVEMENT SHALL INCLUDE THE USE OF A 2" CAST IRON GATE VALE IN LIEU OF THE CORPORATION STOP.

- ①. FINISHED GRADE
- ②. METER BOX AND PREDRILLED COVER WITH PLUG TO BE LOCATED INSIDE ROW @ PROPERTY LINE
- ③. POLYETHELENE TUBING, PE 3408, 200 PSI, SDR 9, BLUE (SEE APPROVED MATERIAL LIST)
- ④. STRAIGHT CURB STOP WITH PADLOCK WINGS CONNECTED TO LEE COUNTY WATER METER (SEE APPROVED MATERIAL LIST)
- ⑤. $\frac{3}{4}$ " POLYETHELENE, PE 3408, 200 PSI, SDR 9, BLUE (SEE APPROVED MATERIAL LIST) WITH LOCATING WIRE
- ⑥. 1" POLYETHELENE TUBING, PE 3408, SDR 9, BLUE (SEE APPROVED MATERIALS LIST) WITH LOCATING WIRE
- ⑦. MIN. 22 $\frac{1}{2}$ " NOT TO EXCEED 45"
- ⑧. BALL CORPORATION STOP (SEE APPROVED MATERIAL LIST)
- ⑨. BRASS "Y" OR "T" CONNECT (SEE APPROVED MATERIAL LIST)
- ⑩. DOUBLE STRAP SERVICE SADDLE PROVIDE SPRING LOADED TAPPING SADDLE WHEN TAPPING HDPE (SEE APPROVED MATERIAL LIST)
- ⑪. WATER MAIN

	LEE COUNTY UTILITIES ENGINEERING 1500 MONROE STREET FORT MYERS, FLORIDA 33901	
	TITLE: WATER SERVICE INSTALL 5/8" THROUGH 1"	
REVISION: 2/28/24	DETAIL NO: W-05.dwg	

NOT TO SCALE

QUAZITE B001118501 METER BOX WITH
 QUAZITE C00111802P050 COVER OR
 CDR B001118501 METER BOX WITH CDR
 C00111802P050X COVER.



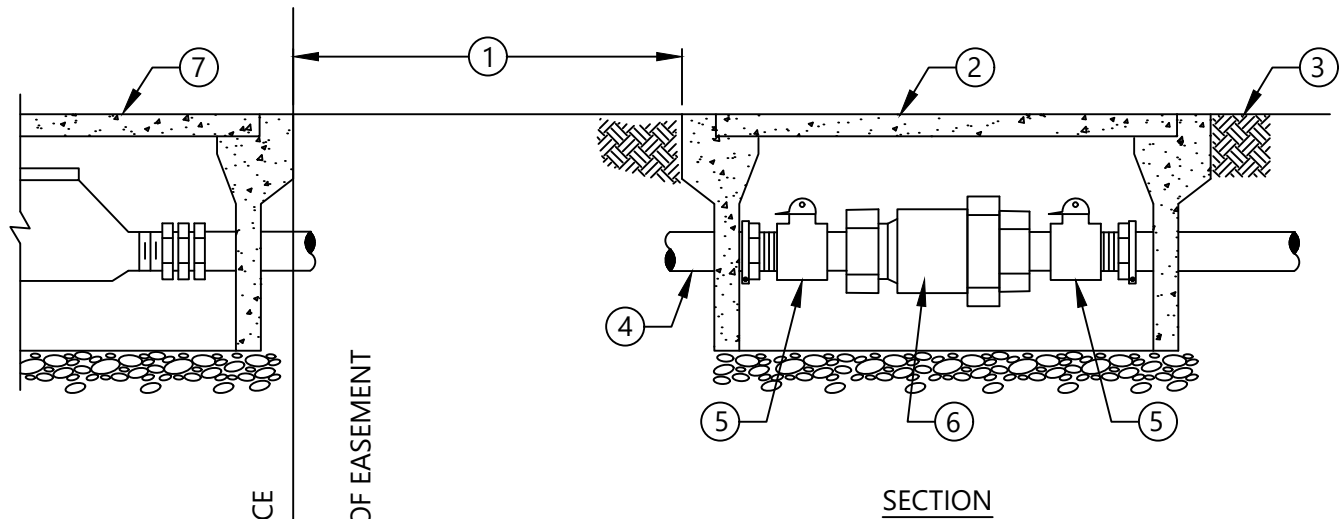
- ① FINISHED GRADE
- ② 17"X30' METER BOX AND PREDRILLED COVER WITH PLUG TO BE LOCATED INSIDE ROW @ PROPERTY LINE
- ③ 2" POLYETHELENE TUBING, PE 3408, 200 PSI, SDR 9, BLUE (SEE APPROVED MATERIAL LIST) WITH LOCATING WIRE
- ④ STRAIGHT CURB STOP WITH PADLOCK WINGS CONNECTED TO LEE COUNTY WATER METER (SEE APPROVED MATERIAL LIST)
- ⑤ 2" GATE VALVE WITH OPERATIONAL NUT (SEE DETAIL G-01 OR G-02)
- ⑥ DOUBLE STRAP SERVICE SADDLE PROVIDE SPRING LOADED TAPPING SADDLE WHEN TAPPING HDPE (SEE APPROVED MATERIAL LIST)
- ⑦ BRASS NIPPLE (MAX 3" LONG)
- ⑧ WATER MAIN
- ⑨ PRIVATE SERVICE LINE
- ⑩ 2" OF 57 STONE

NOTES:

- 1. TUBING UNDER ROADWAY SHALL BE ENCASED IN 4" P.V.C. PIPE SCHEDULE 40 MINIMUM AND EXTEND 4 FEET BEYOND THE EDGES OF PAVEMENT OR BACK OF CURB.

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: WATER SERVICE INSTALL 1-1/2" THROUGH 2"	
REVISION: 3/1/24	DETAIL NO: W-06.dwg	



SECTION

END OF LCU MAINTENANCE
PROPERTY LINE
RIGHT OF WAY OR LIMIT OF EASEMENT

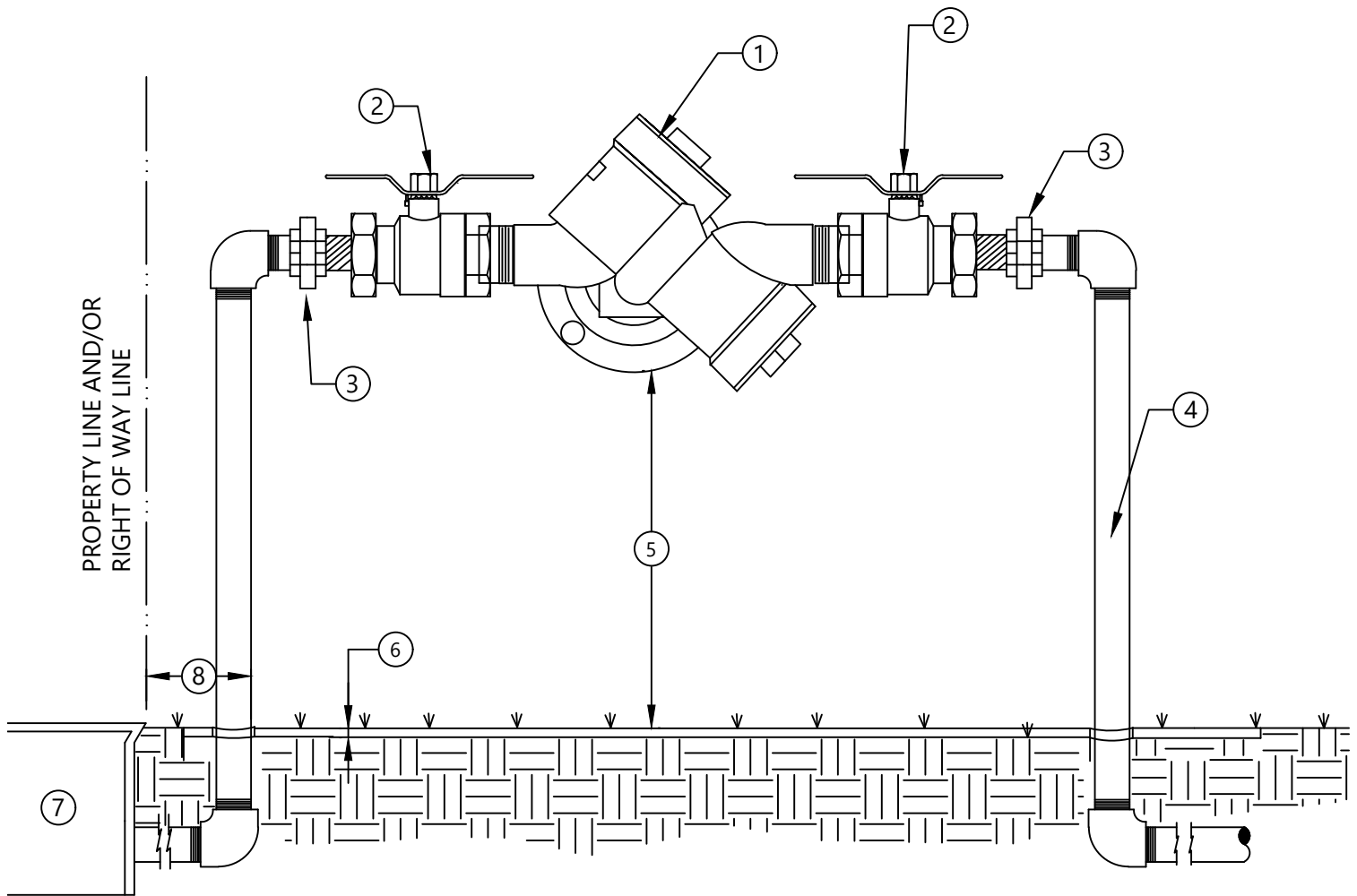
- ①. 1 FT. MINIMUM - 2 FT. MAXIMUM, LOCATED IN P.U.E.
- ②. UTILITY BOX WITH COVER, TO BE LOCATED CLEAR OF DRIVEWAYS (SEE APPROVED MATERIALS LIST)
- ③. FINISHED GRADE
- ④. POLYETHYLENE TUBING, PE3408, 200 PSI, SDR9, BLUE (SEE APPROVED MATERIAL LIST)
- ⑤. STRAIGHT CURB STOP (SEE APPROVED MATERIAL LIST)
- ⑥. L.C.U. APPROVED DUAL CHECK BACKFLOW PREVENTER (SEE APPROVED MATERIAL LIST)
- ⑦. WATER METER BOX

NOTES:

- 1. INITIAL DEVICE TESTING REQUIRED. REFURBISH OR REPLACE DUAL CHECK BACKFLOW PREVENTER AT LEAST EVERY 5 TO 10 YEARS.

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: 5/8" THROUGH 2" CROSS CONTROL ASSEMBLY	
REVISION: 3/1/24	DETAIL NO: W-07.dwg	




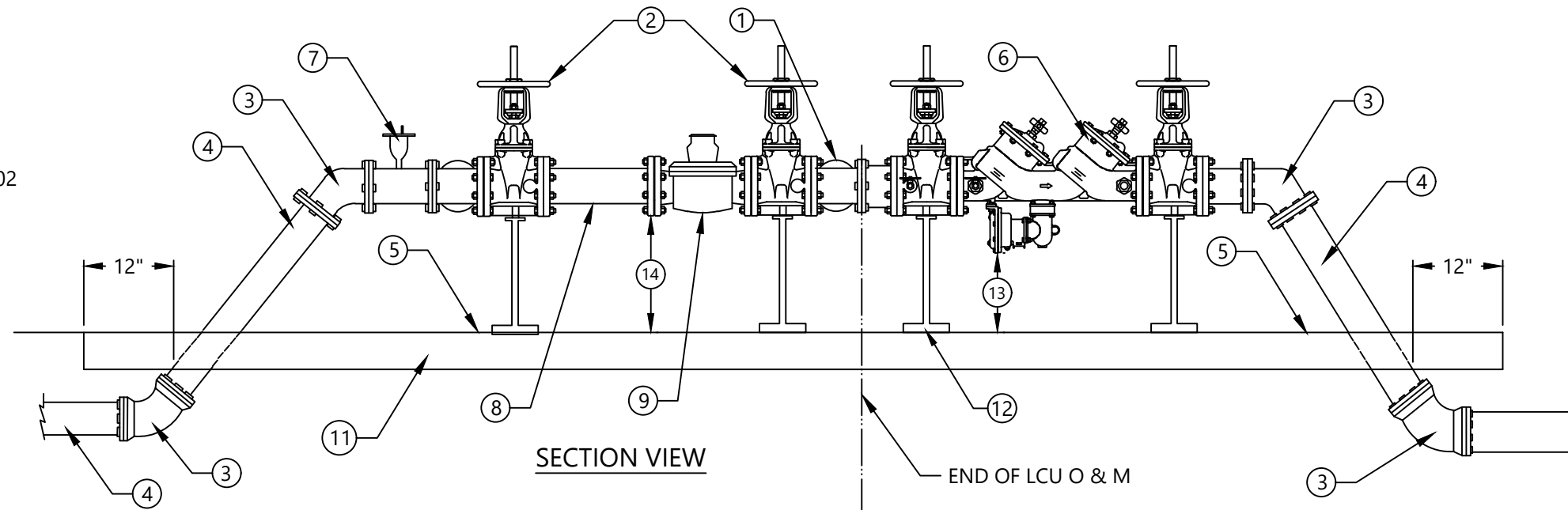
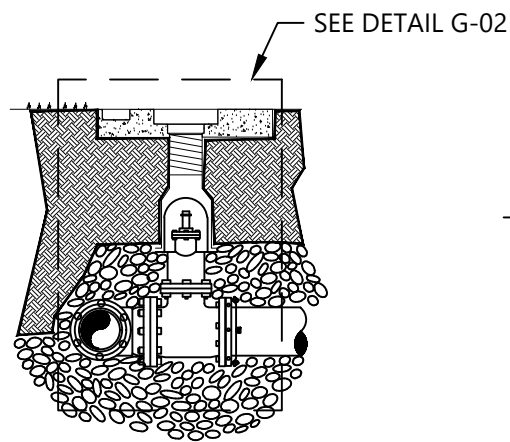
NOTES:

- 1. UNIONS REQUIRED
- 2. INITIAL AND ANNUAL DEVICE TESTING REQUIRED

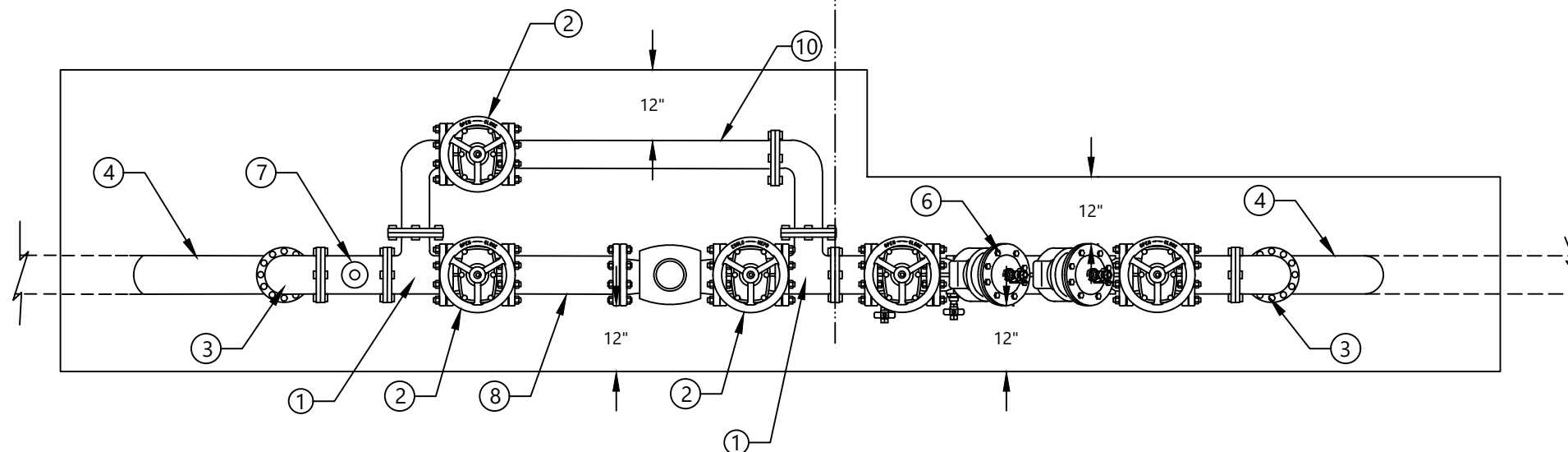
- ①. LCU APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (SEE APPROVED MATERIALS LIST)
- ②. FULL FLOW BRONZE BALL VALVE
- ③. UNION
- ④. ALL PIPING AND FITTINGS SHAL BE BRASS OR COPPER
- ⑤. 12" MIN. - 24" MAX. UNLESS OTHERWISE APPROVED BY LCU
- ⑥. FINISHED GRADE
- ⑦. METER BOX
- ⑧. 2' MAXIMUM

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: 3/4" TO 2" CROSS CONTROL ASSEMBLY	
<small>REVISION:</small> 3/1/24	<small>DETAIL NO:</small> W-08.dwg	



METER SIZE	SPOOL LENGTH
3"	15"
4"	20"
6"	30"
8"	40"
10"	50"



- ① TEE
- ② OS & Y GATE VALVE
- ③ 45° OR 90° BEND M.J. W/RETAINER GLANDS ABOVE GROUND FITTINGS TO BE FLANGED
- ④ ALL PIPING D.I.P.
- ⑤ FINISH GRADE
- ⑥ REDUCED PRESSURE BACKFLOW ASSY. (LEAD FREE)
- ⑦ AIR PRESSURE VALVE
- ⑧ SPOOL PIECE (VARIES BY METER SIZE, SEE TABLE)
- ⑨ METER
- ⑩ BY-PASS LINE (FULL SIZE)
- ⑪ 4" THICK CONCRETE PAD 3000 PSI MIN ADD MESH OR REBAR
- ⑫ STAINLESS STEEL OR HOT DIPPED GALVANIZED ADJUSTABLE PIPE STANDS (SEE LCU STANDARD DETAIL G-11)
- ⑬ 18" MIN. TO 24" MAX. FROM FINISH GRADE TO LOWEST POINT ALL FITTINGS
- ⑭ 20" MIN. TO 30" MAX. FROM FINISH GRADE TO LOWEST POINT ALL FITTINGS
- ⑮ D.I.P. TO POINT OF CONNECTION

NOTES:

- A. USE COMPOUND METER IF FOR POTABLE WATER ONLY
- B. USE FIRELINE METER IF FOR POTABLE AND FIRE HYDRANTS (NON-SPRINKLERED)
- C. PAINT IN ACCORDANCE WITH LCU STANDARDS (SEE GENERAL CONDITIONS SECTION)
- D. ALL PIPING FROM CONNECTION AND THROUGH THE ASSEMBLY SHALL BE DIP, PRESSURE CLASS 350
- E. ALL PLANTING SHALL BE A MINIMUM OF 1.5' FROM THE EDGE OF SLAB AND SHALL PROVIDE A 3' ACCESS OPENING
- F. TRACER WIRE REQUIRED FROM VALVE @ WM EXITING THROUGH CONCRETE SLAB NEXT TO RISER PIPE

NOT TO SCALE

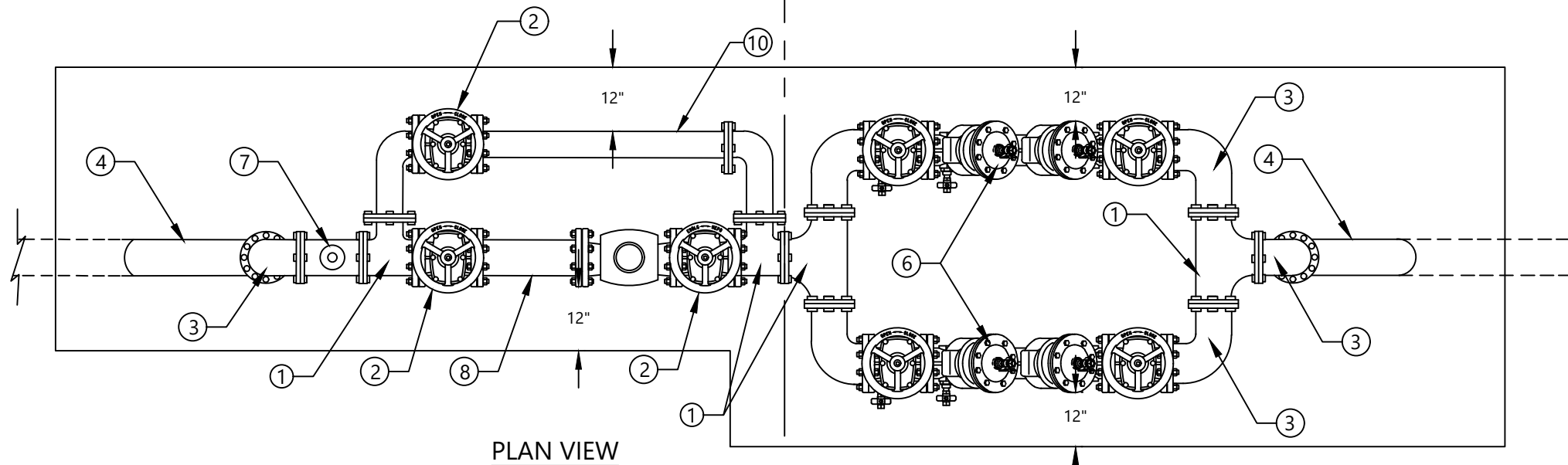
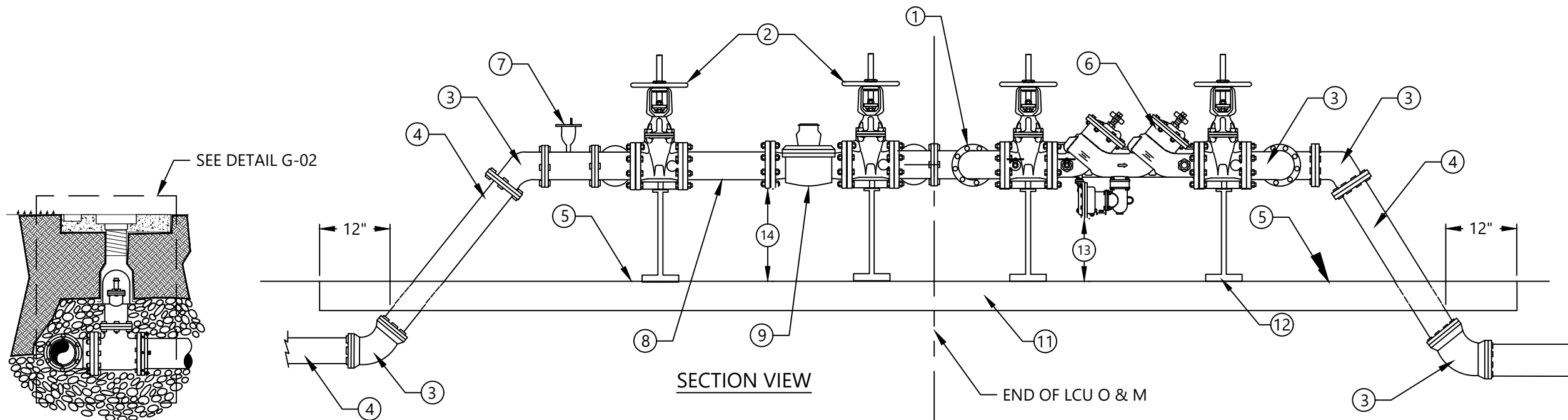


LEE COUNTY
UTILITIES
ENGINEERING
1500 MONROE STREET
FORT MYERS, FLORIDA 33901

TITLE: 3" OR LARGER METER AND
CROSS CONNECTION CONTROL ASSY

REVISION: 3/5/24

DETAIL NO: W-09.dwg



METER SIZE	SPOOL LENGTH
3"	15"
4"	20"
6"	30"
8"	40"
10"	50"

- ① TEE
- ② OS & Y GATE VALVE
- ③ 45° OR 90° BEND M.J. W/RETAINER GLANDS ABOVE GROUND FITTINGS TO BE FLANGED
- ④ ALL PIPING D.I.P.
- ⑤ FINISH GRADE
- ⑥ REDUCED PRESSURE BACKFLOW ASSY. (LEAD FREE)
- ⑦ AIR PRESSURE VALVE
- ⑧ SPOOL PIECE (VARIES BY METER SIZE, SEE TABLE)
- ⑨ METER
- ⑩ BY-PASS LINE (FULL SIZE)
- ⑪ 4" THICK CONCRETE PAD 3000 PSI MIN ADD MESH OR REBAR
- ⑫ STAINLESS STEEL OR HOT DIPPED GALVANIZED ADJUSTABLE PIPE STANDS (SEE LCU STANDARD DETAIL G-11)
- ⑬ 12" MIN. TO 24" MAX. FROM FINISH GRADE TO LOWEST POINT ALL FITTINGS
- ⑭ 20" MIN. TO 30" MAX. FROM FINISH GRADE TO LOWEST POINT ALL FITTINGS

NOTES:

- A. USE COMPOUND METER IF FOR POTABLE WATER ONLY
- B. USE FIRELINE METER IF FOR POTABLE AND FIRE HYDRANTS (NON-SPRINKLERED)
- C. PAINT IN ACCORDANCE WITH LCU STANDARDS (SEE GENERAL CONDITIONS SECTION)
- D. ALL PIPING FROM CONNECTION AND THROUGH THE ASSEMBLY SHALL BE DIP, PRESSURE CLASS 350
- E. ALL PLANTING SHALL BE A MINIMUM OF 1.5' FROM THE EDGE OF SLAB AND SHALL PROVIDE A 3' ACCESS OPENING
- F. TRACER WIRE REQUIRED FROM VALVE @ WM EXITING THROUGH CONCRETE SLAB NEXT TO RISER PIPE

NOT TO SCALE

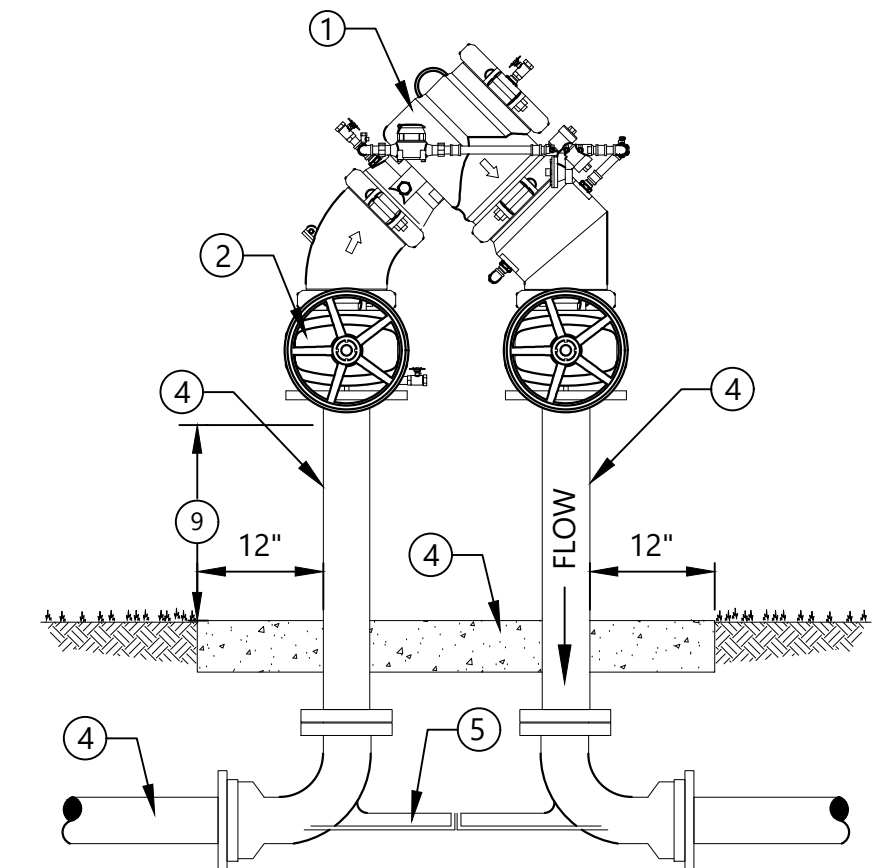
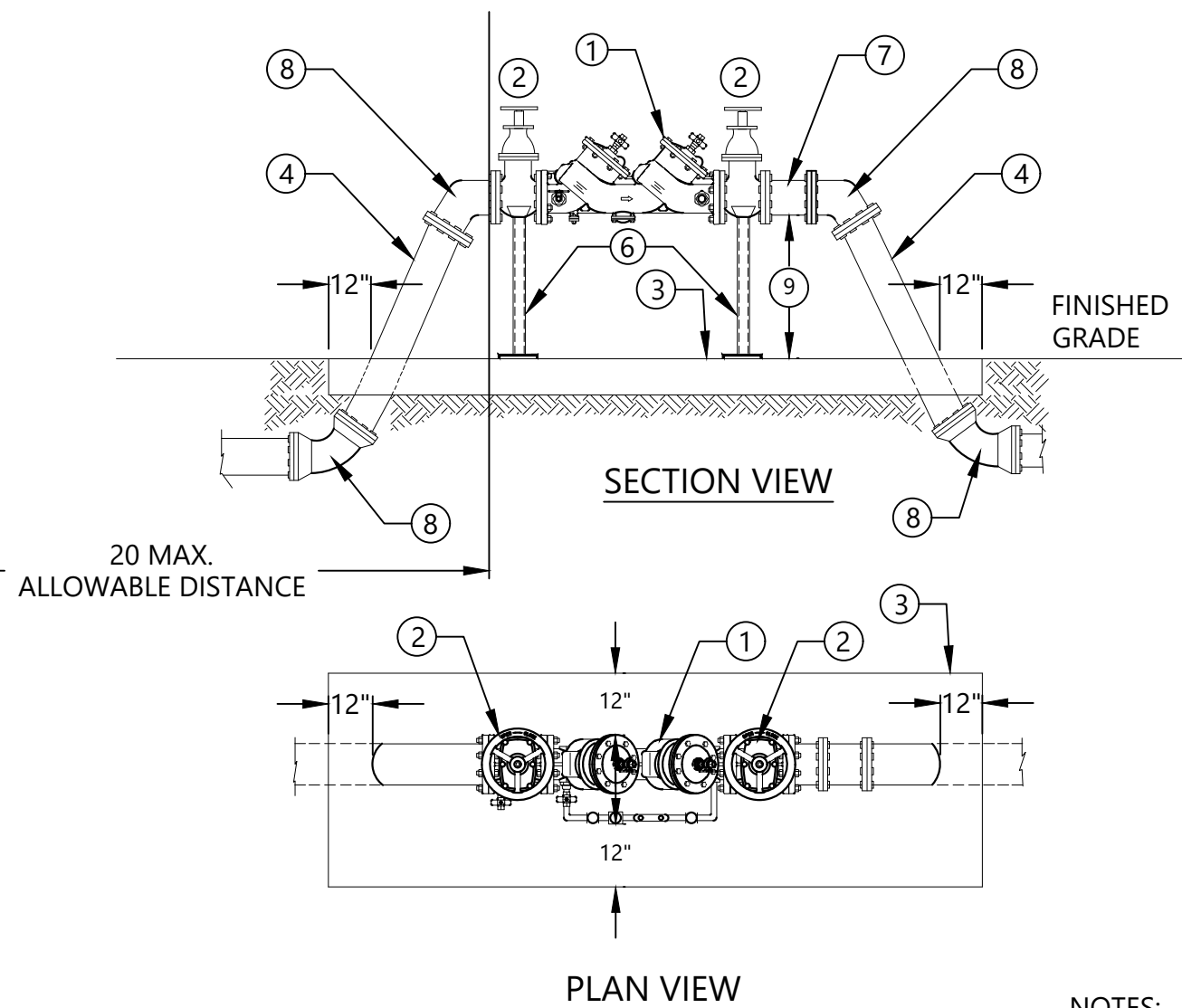
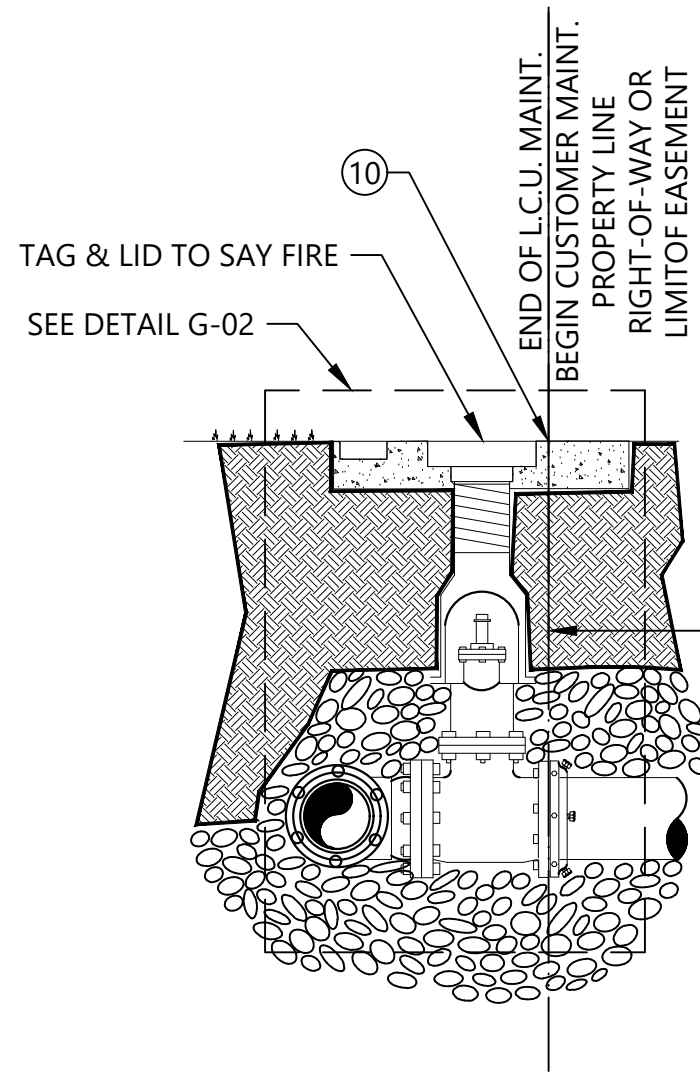


LEE COUNTY
UTILITIES
ENGINEERING
1500 MONROE STREET
FORT MYERS, FLORIDA 33901

TITLE: 3" OR LARGER METER AND CROSS CONN.
CONTROL ASSY FOR UNINTERRUPTED SERVICE

REVISION: 3/5/24

DETAIL NO: W-10.dwg



- ① DOUBLE CHECK DETECTOR BACKFLOW PREVENTOR ASSEMBLY UL/FM APPROVED FOR FIRE SERVICE INSTALLATION WITH LOW FLOW BYPASS INDICATOR METER. (LEAD FREE)
- ② FLANGED GATE VALVE WITH RISING STEM AND RESILIENT SEAT (TYPICAL)
- ③ CONCRETE FOUNDATION 3000 P.S.I. (TYPICAL) TO BE EXTENDED 12" O ALL SIDES FROM ABOVE GROUND PIPE, 4" THICK: REINFORCED 6 X 6 10/10 WELDED WIRE MESH MINIMUM
- ④ D.I.P. TO POINT OF CONNECTION
- ⑤ EPOXY COATED D.I.P. VALVE SETTER ASSEMBLY

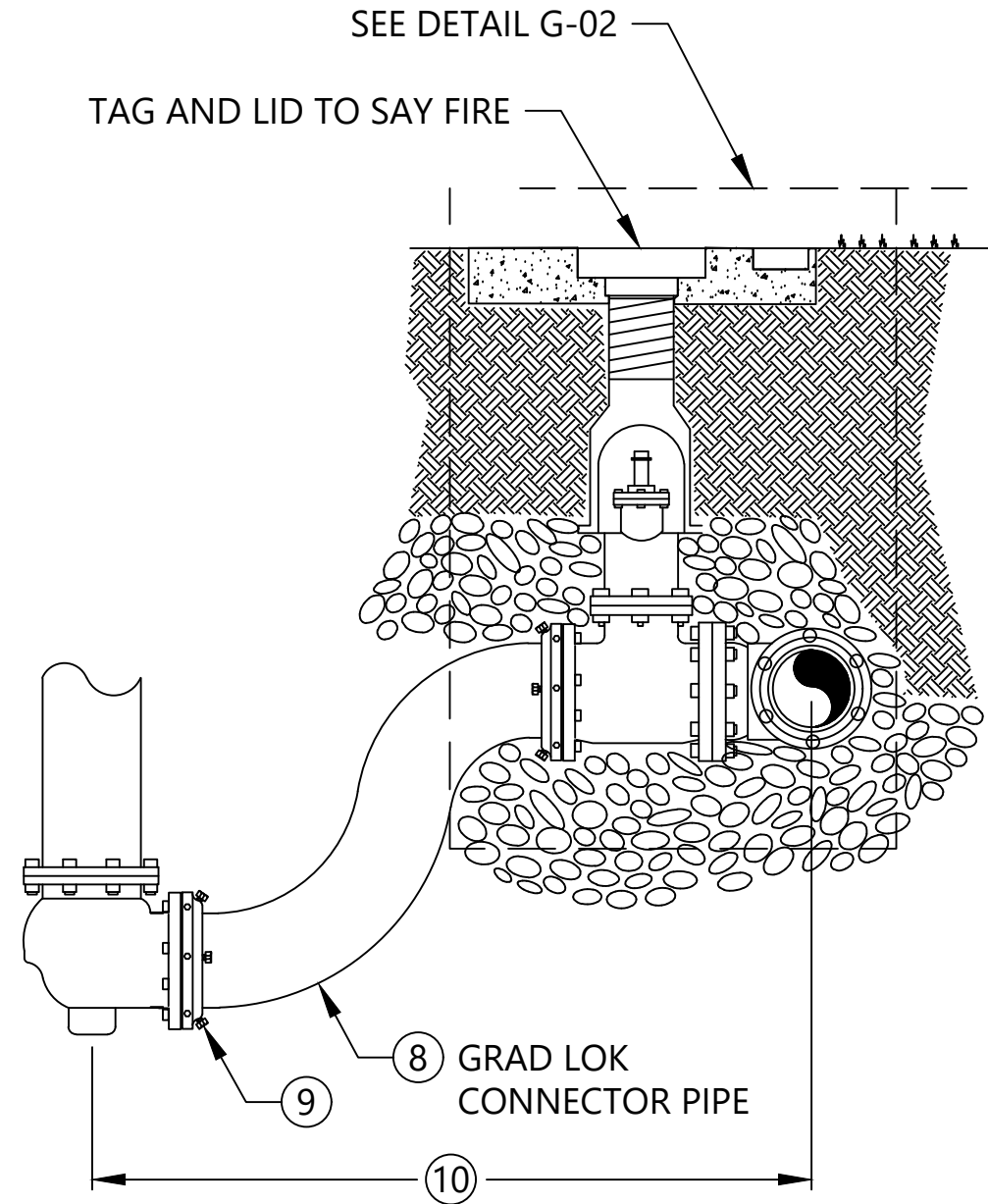
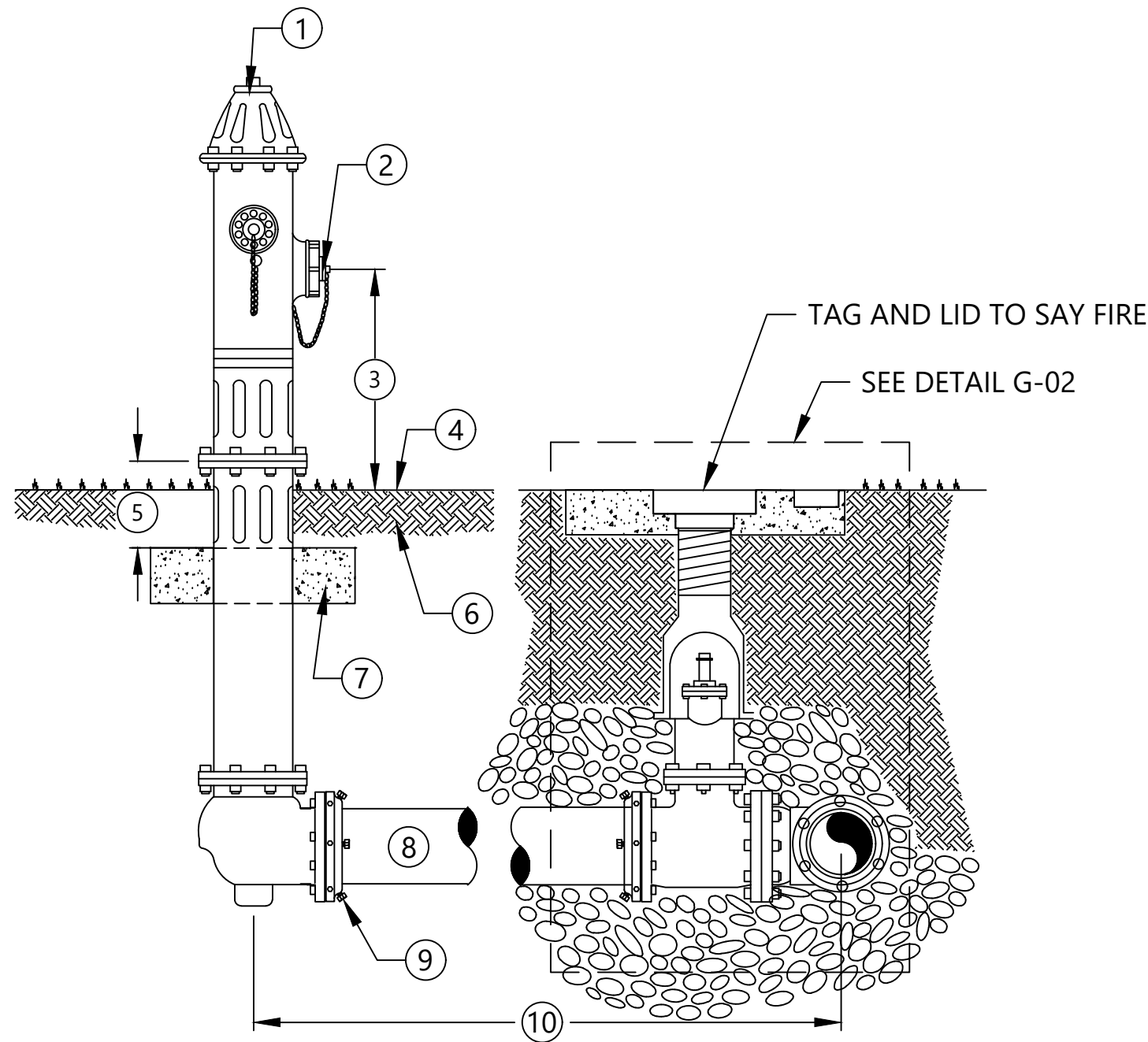
- ⑥ HOT DIPPED GALVANIZED OR S.S. ADJUSTABLE PIPE STANDS (SEE LCU STANDARD DETAIL G-11)
- ⑦ 24" LONG FLANGE X PLAIN END SPOOL PIECE W/UNIFLANGE ON PLAIN LINE UP
- ⑧ 45° OR 90° ELBOW M.J. W/RETAINER GLANDS ABOVE GROUND FITTINGS TO BE FLANGED
- ⑨ 18" MIN. TO 24" MAX. FROM FINISH GRADE TO LOWEST POINT ALL FITTINGS
- ⑩ GATE VALVE @ PROPERTY LINE. END OF LCU OWNERSHIP AND MAINTENANCE

NOTES:

- A. ALL PAINTING TO BE IN ACCORDNCE WITH LCU STANDARDS. (SEE GENERAL CONDITIONS SECTION)
- B. A REDUCED PRESSURE DETECTOR BACKFLOW ASSEMBLY SHALL BE USED WHEN HIGH HAZARDS, AS DEFINED BY AWWA M-14 (e.g. RISK OF CHEMICAL ADDITION, MEDICAL FACILITIES, INDUSTRIAL FACILITIES, PROPERTIES USING RECLAIMED WATER, ETC.) EXIST.
- C. ALL ABOVE GROUND PIPE WILL HAVE FLANGED END DUCTILE IRON PIPE, PRESSURE CLASS 350. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
- D. ALL PLANTING SHALL BE A MINIMUM OF 1.5' FROM THE EDGE OF SLAB, AND SHALL PROVIDE A 3' ACCESS OPENING.

NOT TO SCALE


	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>
	TITLE: CROSS CONN. & COMPACT CROSS CONN. CONTROL ASSY. FOR FIRE ASSY.
REVISION: 3/5/24	DETAIL NO: W-11.dwg

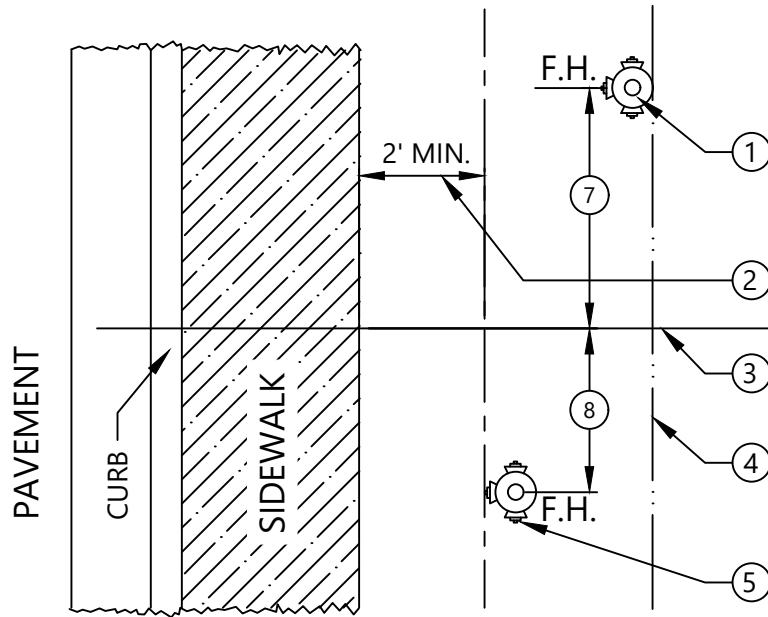


- ① FIRE HYDRANT: STANDARD A.W.W.A. SAFETY YELLOW (SEE APPROVED MATERIAL LIST)
- ② PUMPER CONNECTION FACING AS PER FIRE DISTRICT RECOMMENDATION
- ③ 18" MIN. - 24" MAX.
- ④ FINISHED GRADE
- ⑤ 6" MIN. CLEARANCE

- ⑥ COMPACTED FILL
- ⑦ 24" X 2" X 4" CONCRETE BREAK AWAY CONCRETE PAD, 3000 P.S.I.
- ⑧ PIPE TO BE D.I.P., PRESSURE CLASS 350 OR GRADE LOK CONNECTOR PIPE WITH SPLIT GLAND MECHANICAL RESTRAINED JOINT & FITTINGS
- ⑨ RESTRAINED JOINTS, FROM HYDRANT TO WM
- ⑩ VARIABLE DISTANCE, IF GREATER THAN 100' A VALVE SHALL BE INSTALLED AT HYDRANT BASE

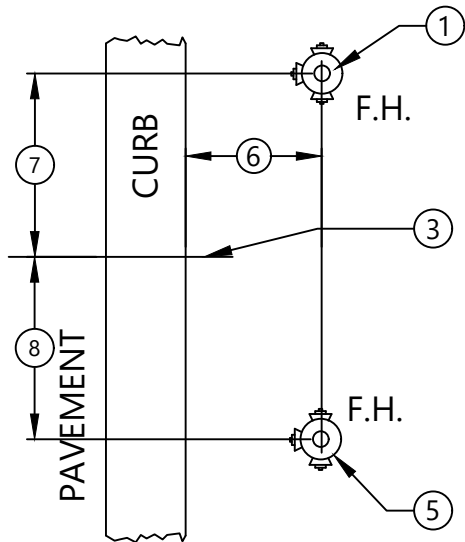
NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING 1500 MONROE STREET FORT MYERS, FLORIDA 33901	
	TITLE: FIRE HYDRANT ASSEMBLY	
REVISION: 3/6/24	DETAIL NO: W-12.dwg	



PARKWAY AREA WITH SIDEWALK

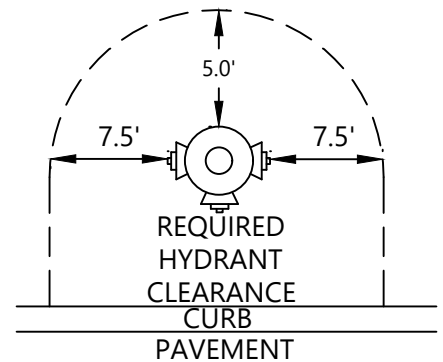
(PLAN VIEW)



PARKWAY AREA OR NO SIDEWALK

(PLAN VIEW)

- ①. PREFERRED LOCATION
- ②. F.H. TO BE LOCATED 2' MINIMUM FROM EDGE OF SIDEWALK
- ③. P.T. OR P.C. OF CURB RETURN
- ④. PROPERTY LINE RIGHT-OF-WAY OR LIMIT OF EASEMENT
- ⑤. ACCEPTABLE LOCATION WITH CURB RADIUS OF 20' OR MORE
- ⑥. BETWEEN 5'-0" MIN. AND 10'-0" MAX.
- ⑦. 6'-0"
- ⑧. 4'-0"




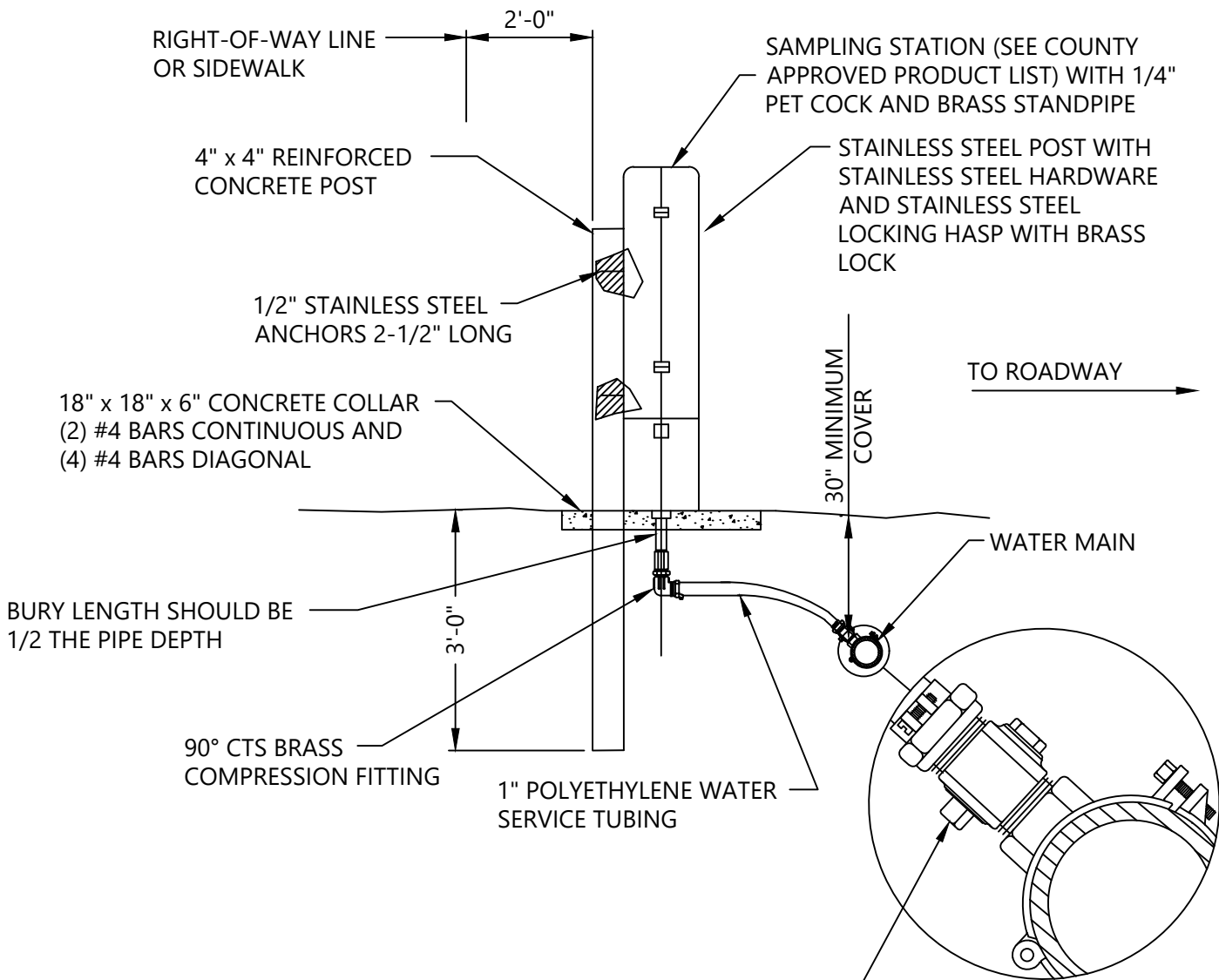
(PLAN VIEW)

NOTES:

1. OBSTRUCTIONS SUCH AS UTILITY POLES, STREET SIGNS, IRRIGATION BOXES, FENCES, ETC. SHALL NOT BE PLACED BETWEEN CURB AND HYDRANT.
2. SOME LOCATIONS APPLY AT EITHER END OF CURB RETURNS.
3. DIMENSIONS SHOWN ON CONSTRUCTION DRAWINGS SUPERCEDE LOCATIONS SHOWN HERE.

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: WATER PRESSURE LINE VERTICAL OFFSET W/DIP & MJ FITTINGS	
<small>REVISION:</small> 3/7/24	<small>DETAIL NO:</small> W-13.dwg	




SIDE VIEW

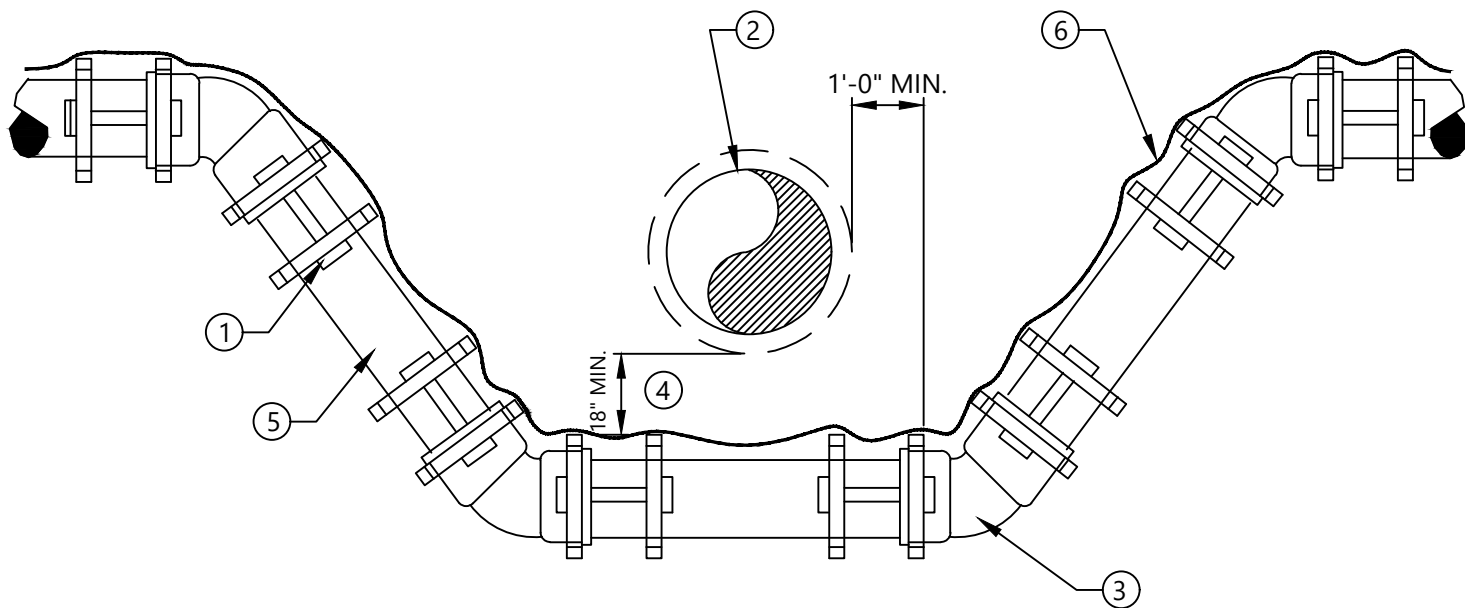
BRASS SERVICE SADDLES WITH CORPORATION STOP FOR PVC C-900 6" TO 12". ALL SIZES DUCTILE IRON PIPE SHOULD BE DIRECT TAP WITH CORPORATION STOP

NOTE:

- 1. 3' CLEARANCE ALL AROUND CONCRETE COLLAR

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: BACTERIA SAMPLE VALVE	
<small>REVISION:</small> 3/20/24	<small>DETAIL NO:</small> W-14.dwg	

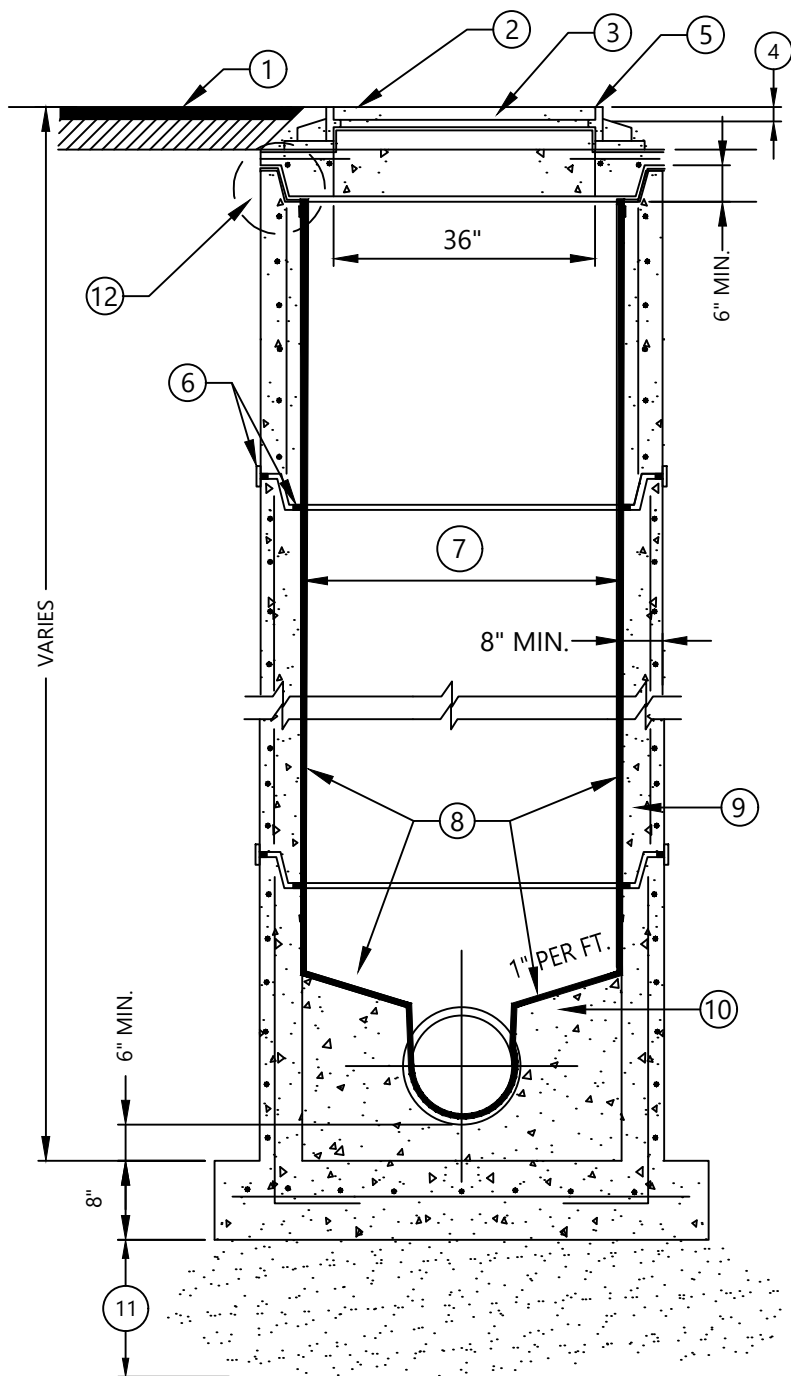


WASTE WATER FORCE MAIN

- ①. LCU APPROVED JOINT RESTRAINT FOR P.V.C. M.J. PIPE AND FITTINGS PLACED IN ACCORDANCE WITH JOINT RESTRAINT SCHEDULE. (SEE DETAIL G-10)
- ②. CONFLICT PIPE
- ③. LCU APPROVED C-900 PVC DR 14
- ④. 18" MIN. UNLESS OTHERWISE APPROVED BY LCU
- ⑤. 45° MECHANICAL JOINT FITTING, TYPICAL
- ⑥. 10 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL)

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: WASTE WATER FM VERTICAL OFFSET WITH FITTINGS	
REVISION: 3/7/24	DETAIL NO: S-01.dwg	



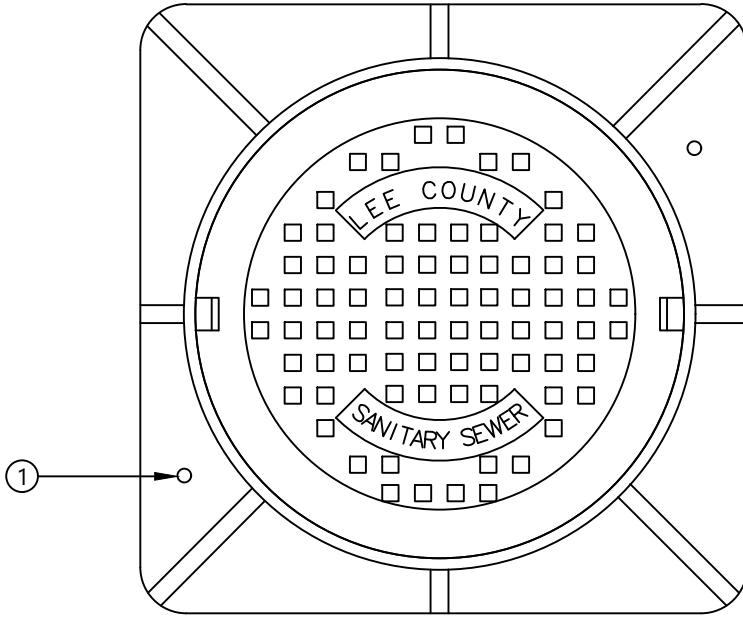
- ①. GRADE
- ②. GROUT TYP.
- ③. SEE MASTER MANHOLE COVER DETAIL, S-03
- ④. SET TOP OF COVER 2 ½" ABOVE FINISHED GRADE IN UNPAVED AREAS
- ⑤. SET TOP OF COVER FLUSH WITH PAVEMENT IN PAVED AREA
- ⑥. ALL JOINTS SHALL BE SEALED ON INTERIOR & EXTERIOR WITH A FLEXIBLE PREFORMED BITUMASTIC JOINT MATERIAL. WRAP TAPE AROUND OUTSIDE OF MANHOLE JOINTS. (SEE APPROVED MATERIAL LIST)
- ⑦. 6' DIA. PER DISCRETION OF LEE COUNTY UTILITIES
- ⑧. INTERIOR COATING/LINER (SEE APPROVED MATERIAL LIST) SYSTEM TO COVER ENTIRE BENCH AND INVERT CHANNEL
- ⑨. REINFORCED PRECAST CONCRETE CLASS "A" TYPE II 4,000 PSI
- ⑩. Poured concrete. NO BRICK OR GRAVEL
- ⑪. 12" CRUSHED ROCK BASE
- ⑫. KEYED JOINT (TYP)

NOTES:

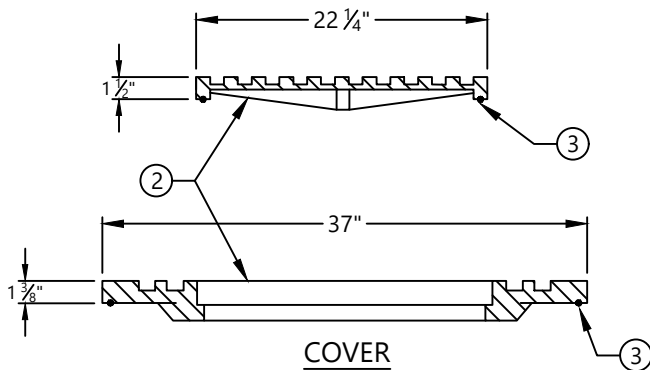
1. MASTER MANHOLES FOR WASTEWATER PUMPING STATIONS SHALL HAVE ONLY ONE INFLUENT AND ONE EFFLUENT PIPE, UNLESS OTHERWISE APPROVED BY LEE COUNTY UTILITIES.
2. FLEXIBLE RESILIENT CONNECTIONS SHALL BE INSTALLED FOR ALL CONNECTIONS BETWEEN MANHOLE AND PIPES.

NOT TO SCALE

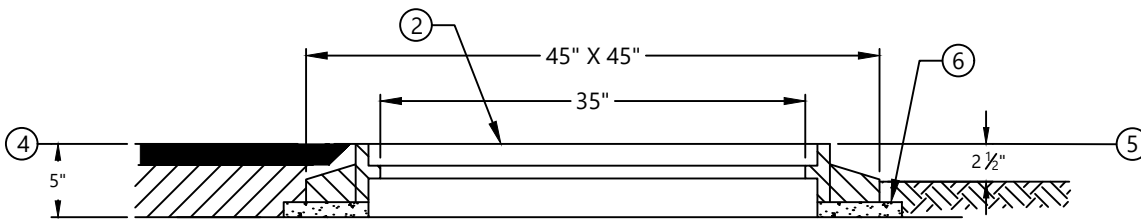
	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	MASTER PRE-CAST MANHOLE	
<small>TITLE:</small>	MASTER PRE-CAST MANHOLE	
<small>REVISION:</small>	3/7/24	<small>DETAIL NO:</small> S-02.dwg



(PLAN VIEW)



COVER



FRAME

FOR TRAFFIC AREAS OR IN ROAD RIGHTS OF WAY

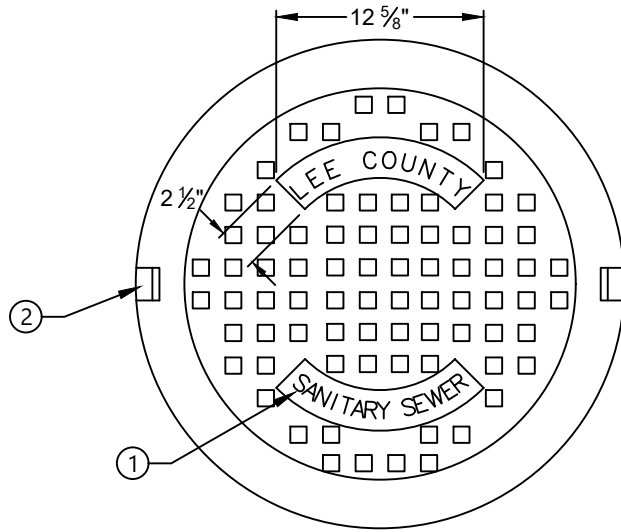
(SECTION VIEW)

- ① 1 3/16" DIA HOLE FOR 3/4" ANCHOR BOLT
2 HOLES LOCATED 180° APART
- ② MACHINED SURFACE
- ③ DOVETAIL GROOVE & "O" RING GASKET
- ④ SET TOP OF COVER FLUSH WITH PAVEMENT IN PAVED AREA
- ⑤ SET TOP OF COVER 2 1/2" ABOVE FINISHED GRADE IN UNPAVED AREAS
- ⑥ GROUT TYP.

NOT TO SCALE

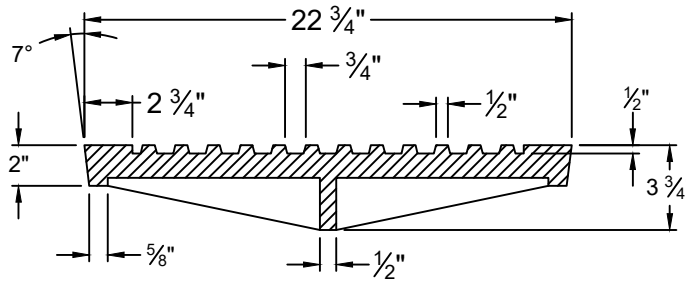
	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	MASTER MANHOLE COVER	
<small>REVISION:</small> 3/7/24	<small>DETAIL NO:</small> S-03.dwg	

(PLAN VIEW)

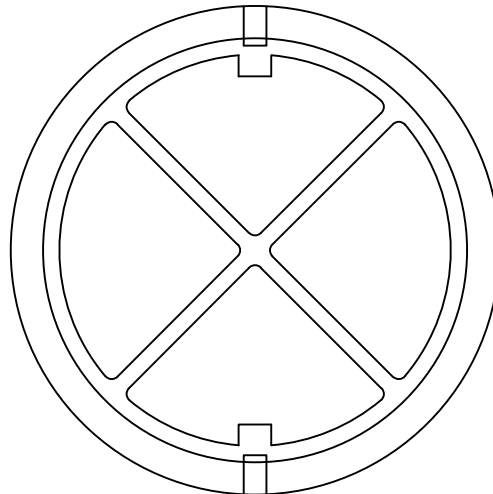


- ① 3/4" HIGH LETTERS
- ② 2 NON PENETRATING PICKHOLES

(SECTION VIEW)




(PLAN VIEW)

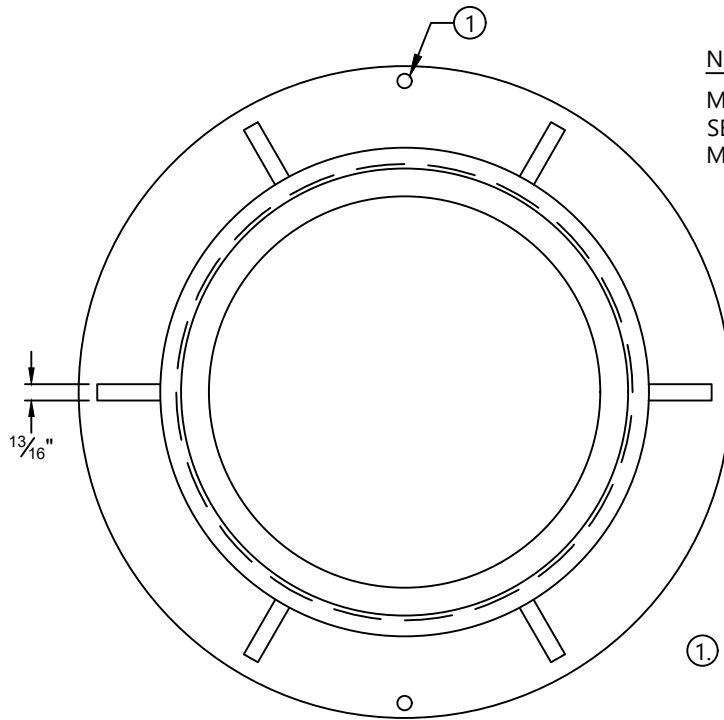


NOTE:
 COVER WEIGHT 130 LBS
 (APPROX.) RING WEIGHT
 195 LBS (APPROX.)

NOTE:
 PROVIDE PLASTIC
 INFLOW PROTECTORS
 FOR ALL MANHOLES IN
 NON-TRAFFIC BEARING
 AREAS. PROVIDE 304
 STAINLESS STEEL
 INFLOW PROTECTORS
 FOR ALL MANHOLES IN
 TRAFFIC BEARING AREAS.
 (SEE APPROVED
 MATERIAL LIST)

NOT TO SCALE

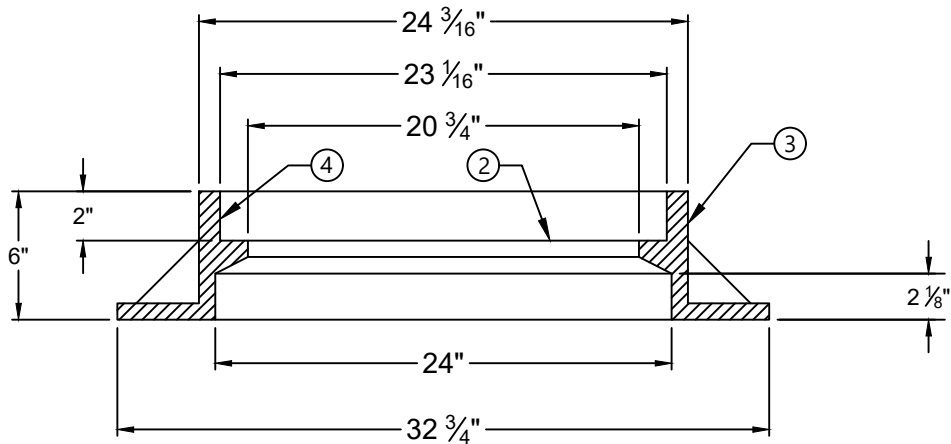
	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: MANHOLE FRAME COVER	
REVISION: 3/8/24	DETAIL NO: S-04.dwg	



(PLAN VIEW)

NOTE:
MATERIAL: CAST IRON,
SEE APPROVED
MATERIAL LIST


- ① (2) 1 13/16" DIA. ANCHOR HOLES 180° APART
- ② MACHINE SURFACES
- ③ 2° TAPER
- ④ 4° TAPER

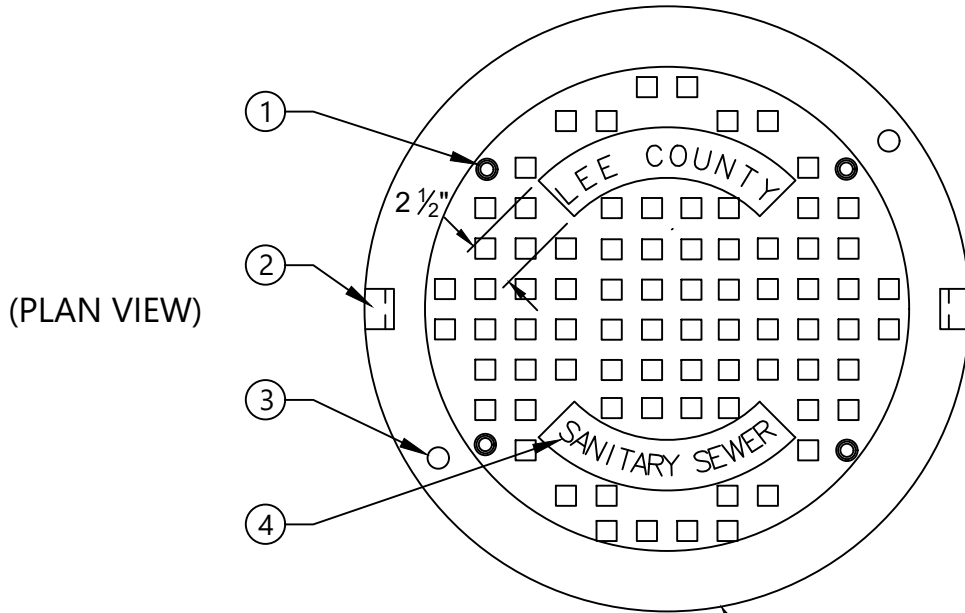


(SECTION VIEW)

NOTE:
COVER WEIGHT 130 LBS (APPROX.)
RING WEIGHT 195 LBS (APPROX.)

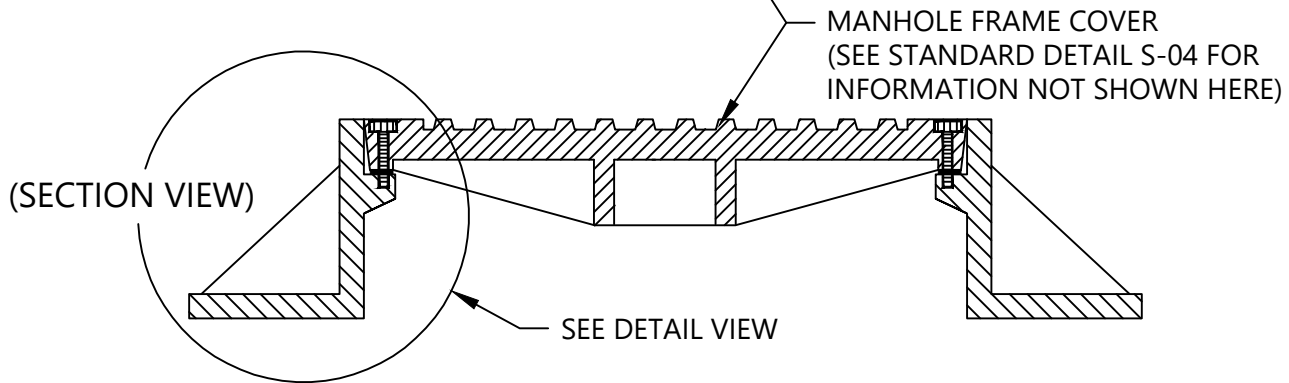
NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING 1500 MONROE STREET FORT MYERS, FLORIDA 33901	
	TITLE: MANHOLE FRAME RING	
REVISION: 3/8/24	DETAIL NO: S-05.dwg	



(PLAN VIEW)

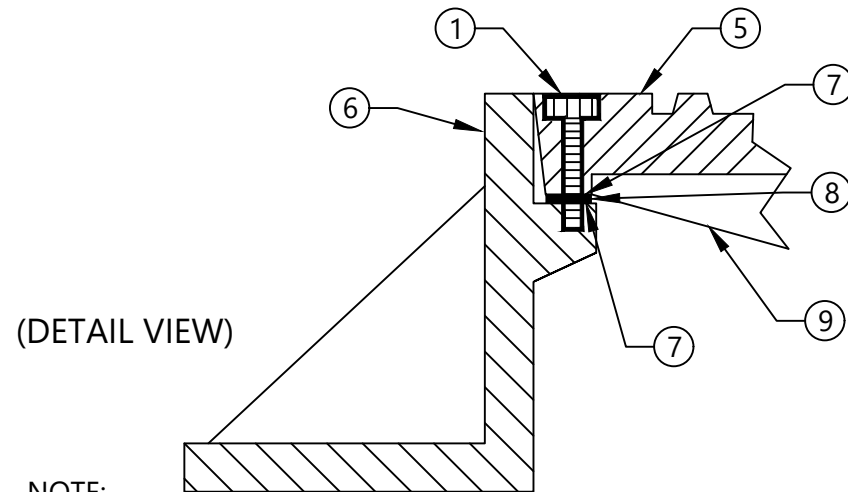
- ①. 4 1/2" DIA. X 2 1/2" LONG S.S. BOLTS (TYP.)
- ②. 2 NON PENETRATING PICKHOLES
- ③. 1 3/16" DIA HOLE FOR 3/4" ANCHOR BOLT 2 HOLES LOCATED 180° APPART
- ④. 3/4" HIGH LETTERS
- ⑤. MANHOLE COVER



(SECTION VIEW)

MANHOLE FRAME COVER
(SEE STANDARD DETAIL S-04 FOR INFORMATION NOT SHOWN HERE)

SEE DETAIL VIEW




(DETAIL VIEW)

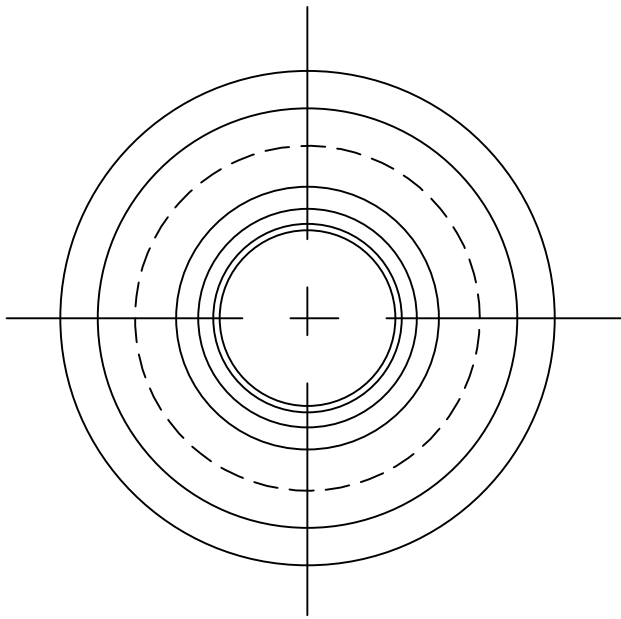
- ⑥. M.H. FRAME RING
- ⑦. MACHINED BEARING SEAT
- ⑧. CONTINUOUS FLAT GASKET
- ⑨. PROTECTIVE SKIRT

NOTE:

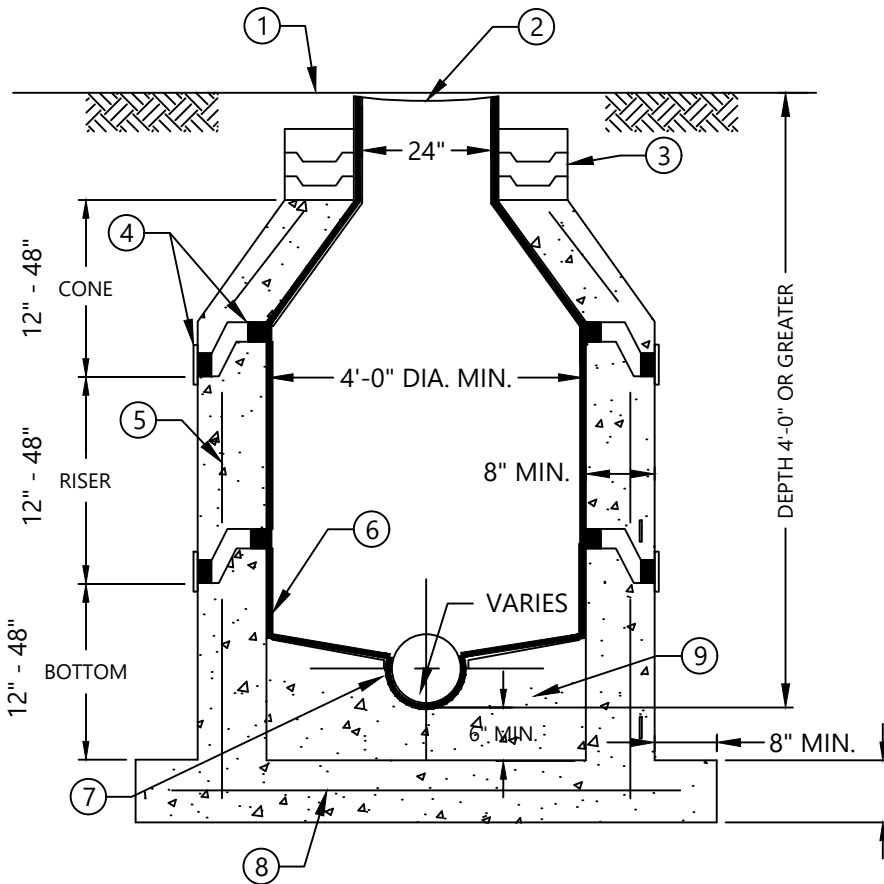
COVER WEIGHT 130 LBS (APPROX.)
RING WEIGHT 195 LBS (APPROX.)

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: SEALED MANHOLE FRAME RING	
REVISION: 5/30/24	DETAIL NO: S-06.dwg	

NOT TO SCALE



TOP PLAN VIEW




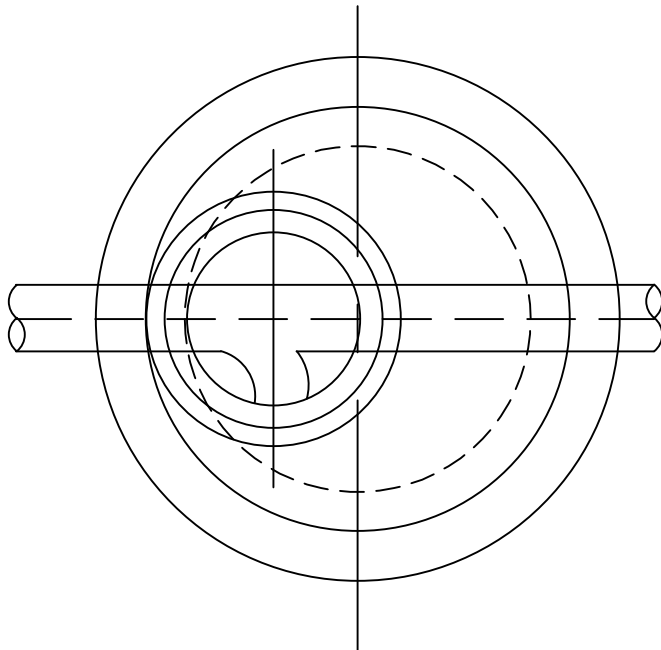
SECTION VIEW

- ① FINISHED GRADE
- ② MANHOLE RING & COVER (SEE DETAILS S-03, S-04 & S-05 AND APPROVED MATERIALS LIST
- ③ 4" MIN., PRECAST CONCRETE ADJUSTING RINGS. TOTAL HEIGHT OF CHIMNEY NOT TO EXCEED 12" UNLESS OTHERWISE APPROVED BY LCU
- ④ ALL JOINTS SHALL BE SEALED ON INTERIOR & EXTERIOR WITH A FLEXIBLE PREFORMED BITUMASTIC JOINT MATERIAL. WRAP TAPE AROUND OUTSIDE OF MANHOLE AT ALL JOINTS. (SEE APPROVED MATERIAL LIST)
- ⑤ REINFORCED PRECAST CONCRETE CLASS "A" TYPE II 4,000 PSI
- ⑥ INTERIOR COATING/LINER (SEE APPROVED MATERIAL LIST) SYSTEM TO COVER ENTIRE BENCH AND INVERT CHANNEL
- ⑦ BUILD BENCH TO SPRING LINE OR ABOVE
- ⑧ #5 BARS @ 12" O.C. E.W. TYPICAL
- ⑨ POURED CONCRETE. NO BRICK OR GRAVEL

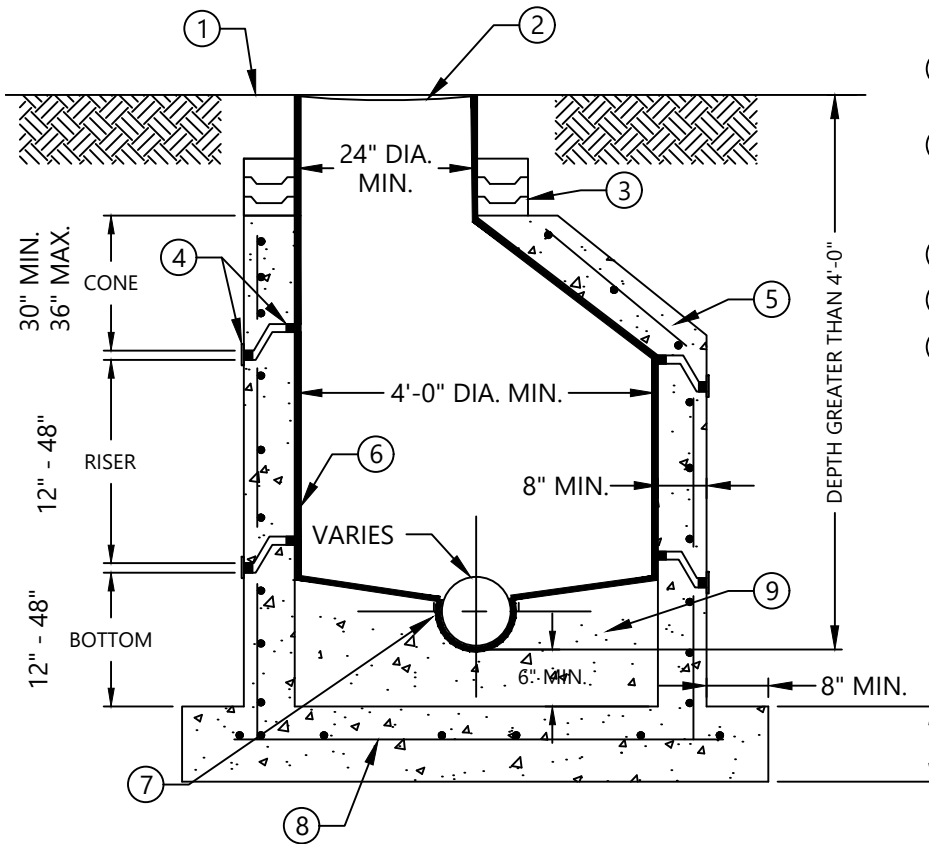
8" IF 13' OR LESS DEEP
 12" IF GREATER THAN
 13' DEEP

NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: MASTER PRE-CAST MANHOLE	
REVISION: 3/21/24	DETAIL NO: S-07.dwg	



TOP PLAN VIEW




SECTION VIEW

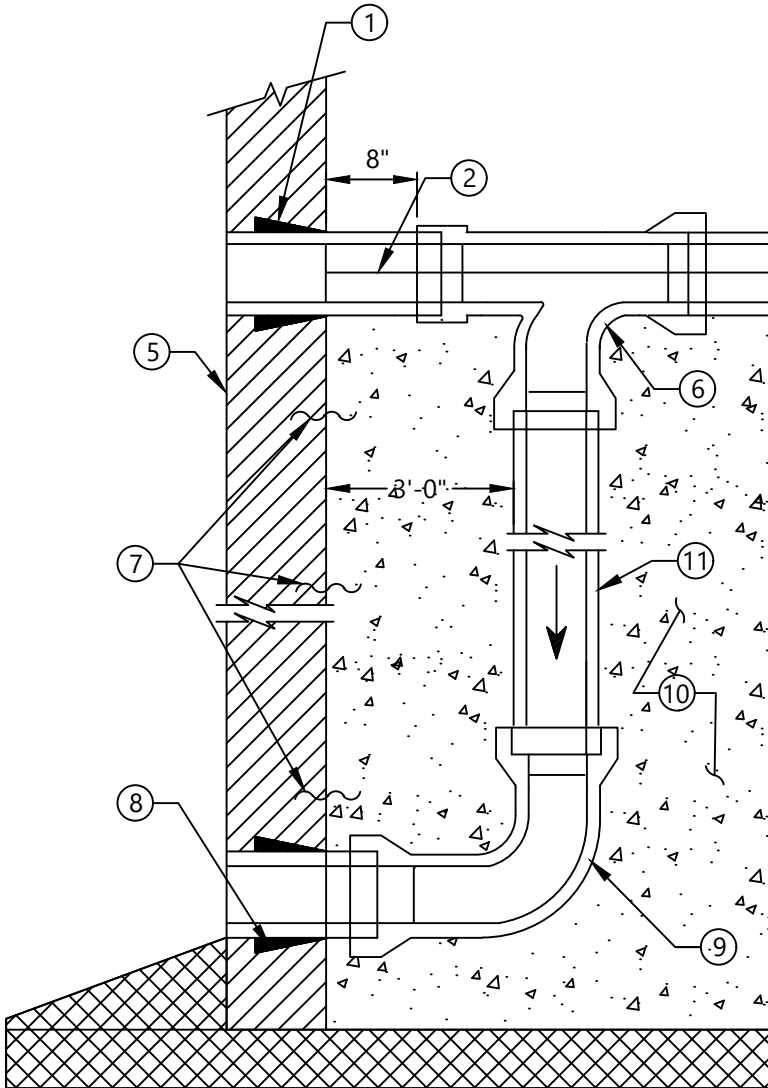
- ① FINISHED GRADE
- ② MANHOLE RING & COVER (SEE DETAILS S-03, S-04 & S-05 AND APPROVED MATERIALS LIST)
- ③ 4" MIN., PRECAST CONCRETE ADJUSTING RINGS. TOTAL HEIGHT OF CHIMNEY NOT TO EXCEED 12" UNLESS OTHERWISE APPROVED BY LCU
- ④ ALL JOINTS SHALL BE SEALED ON INTERIOR & EXTERIOR WITH A FLEXIBLE PREFORMED BITUMASTIC JOINT MATERIAL. WRAP TAPE AROUND OUTSIDE OF MANHOLE AT ALL JOINTS. (SEE APPROVED MATERIAL LIST)
- ⑤ REINFORCED PRECAST CONCRETE CLASS "A" TYPE II 4,000 PSI
- ⑥ INTERIOR COATING/LINER (SEE APPROVED MATERIAL LIST) SYSTEM TO COVER ENTIRE BENCH AND INVERT CHANNEL
- ⑦ BUILD BENCH TO SPRING LINE OR ABOVE
- ⑧ #5 BARS @ 12" O.C. E.W. TYPICAL
- ⑨ POURED CONCRETE. NO BRICK OR GRAVEL

8" IF 13' OR LESS DEEP
12" IF GREATER THAN
13' DEEP


NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING 1500 MONROE STREET FORT MYERS, FLORIDA 33901	
	TITLE: PRECAST MANHOLE ECCENTRIC	
REVISION: 3/21/24	DETAIL NO: S-08.dwg	

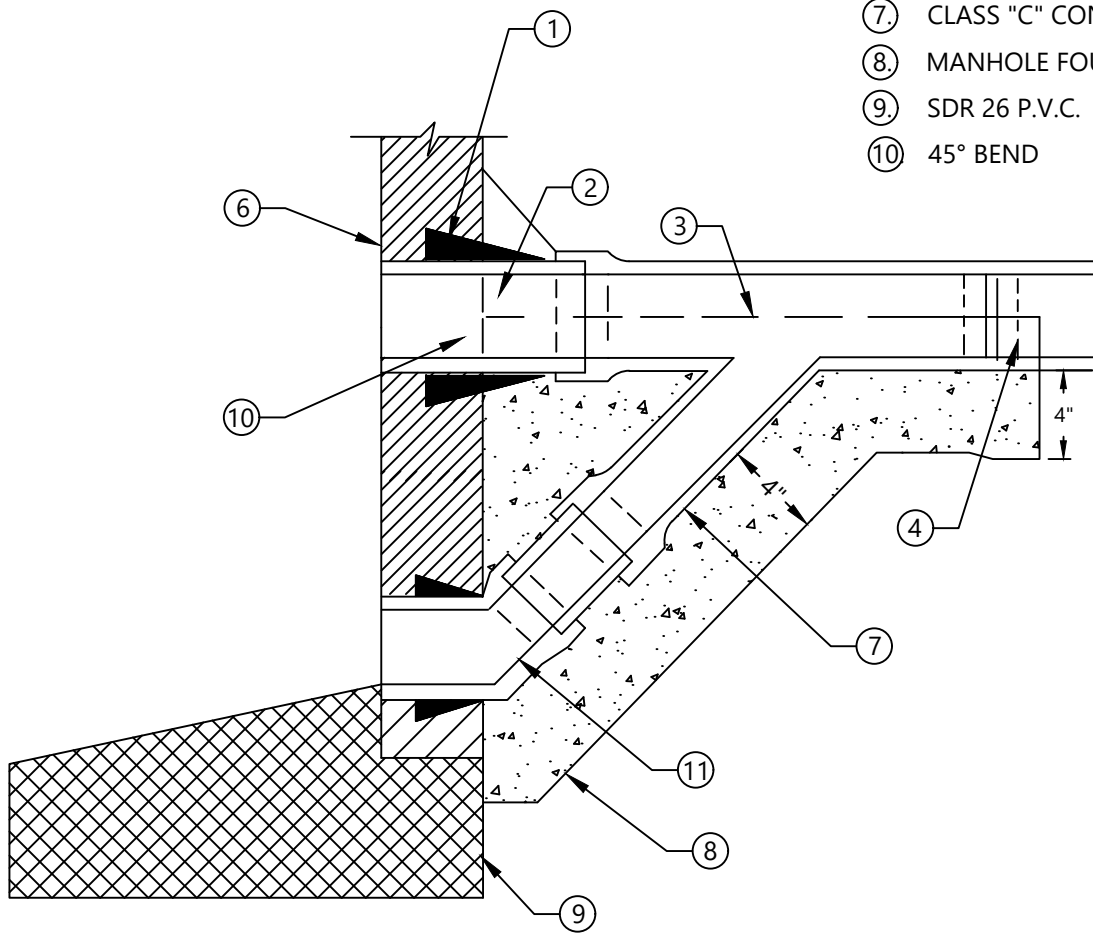
- ① CAST IN PLACE FLEX PIPE CONNECTION BOOT W/SERIES 300 S.S. CLAMP C-923 AND RUBBER BOOT
- ② STUB PIPE
- ③ CONCRETE TO SPRING LINE OF PIPE
- ④ COMPRESSION COUPLING CONNECTION OR APPROVED EQUAL
- ⑤ MANHOLE WALL
- ⑥ TEE
- ⑦ MASONRY ANCHORS MIN. ONE TIE PER TWO SQ. FT. OF CONTACT AREA FOR DROP CONNECTIONS TO EXISTING M.H.S. ONLY
- ⑧ CAST IN PLACE FLEX PIPE CONNECTION BOOT W/SERIES 300 S.S. CLAMP C-923 AND RUBBER BOOT
- ⑨ 90° MITERED BEND
- ⑩ SQUARE, CONCRETE ENCASEMENT CLASS "C"
- ⑪ SDR 26 PVC PIPE




NOT TO SCALE

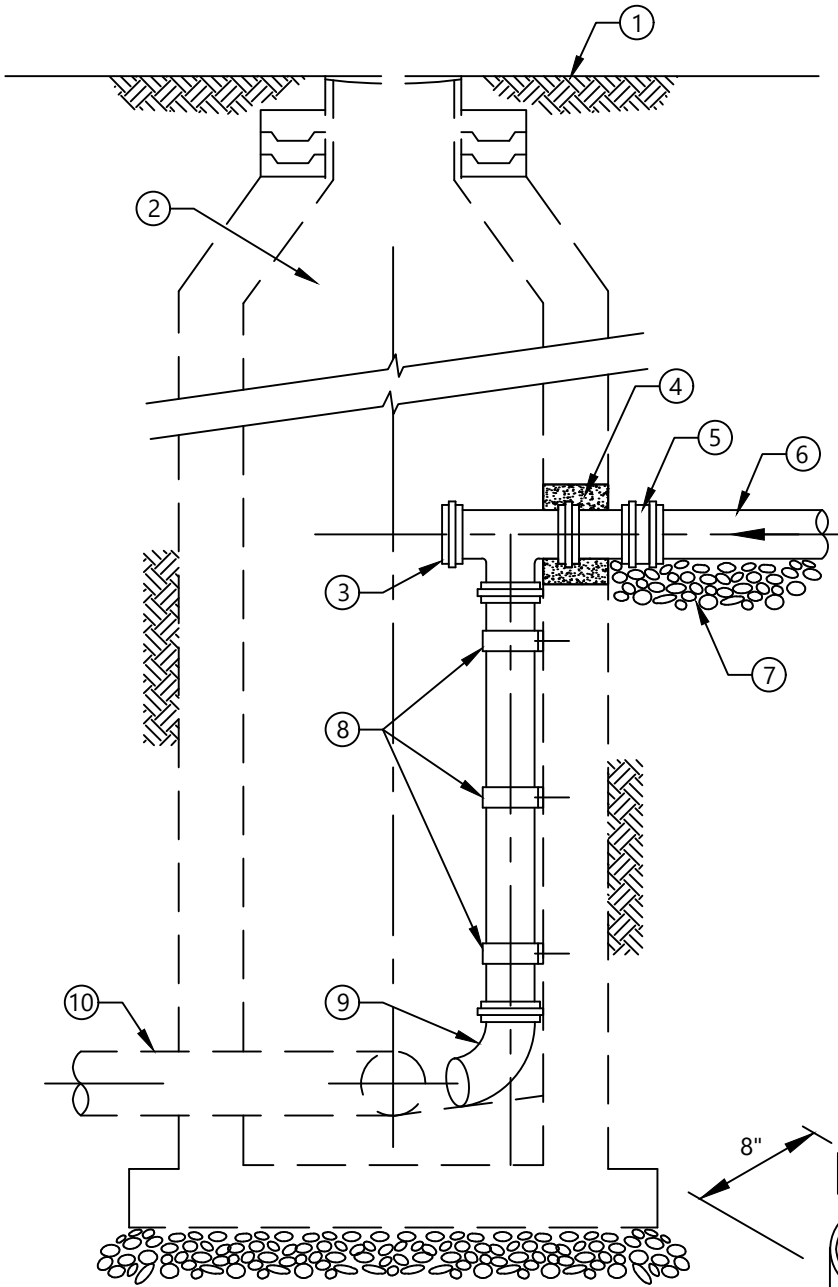
	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: MANHOLE 4' DROP OR GREATER	
<small>REVISION:</small> 3/21/24	<small>DETAIL NO:</small> S-09.dwg	

- ①. CAST IN PLACE FLEX PIPE CONNECTION BOOT W/SERIES 300 S.S. AND RUBBER BOOT
- ②. STUB PIPE
- ③. CONCRETE TO SPRING LINE OF PIPE
- ④. COMPRESSION COUPLING CONNECTION OR APPROVED EQUAL
- ⑤. MANHOLE WALL
- ⑥. WYE
- ⑦. CLASS "C" CONCRETE WIDTH OF TRENCH
- ⑧. MANHOLE FOUNDATION
- ⑨. SDR 26 P.V.C.
- ⑩. 45° BEND



NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: OPTIONAL MANHOLE DROP 2' TO 4'	
<small>REVISION:</small>	3/21/24	<small>DETAIL NO:</small>
		S-10.dwg

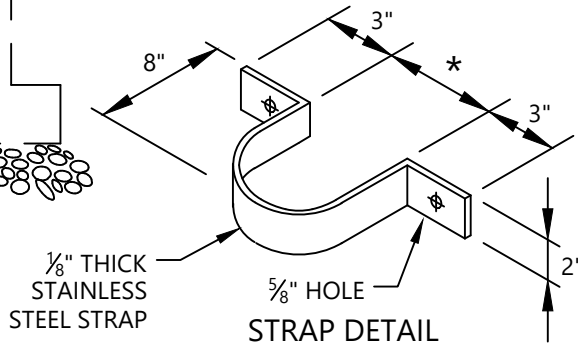


- ① EXISTING GRADE
- ② EXISTING MANHOLE
- ③ P.V.C. TEE
- ④ CORE DRILL MANHOLE AND FILL VOID WITH NON-SHRINK GROUT
- ⑤ COMPRESSION COUPLING
- ⑥ P.V.C. SEWER
- ⑦ CRUSHED STONE BEDDING
- ⑧ STRAP AT TEE ELBOW AND ON 4' CENTERS WITH 1/2" DIA. EXPANSION TYPE S.S. CINCH BOLTS & S.S. ANCHORS
- ⑨ * 90° BEND RESTING ON RE-FORMED CHANNEL AND TURNED IN DIRECTION OF EXISTING SEWER FLOW
- ⑩ * EXIST. SEWER

* PIPE SIZE VARIES


NOTE:
 THE CONSTRUCTION OF AN INSIDE DROP MANHOLEIS ONLY PERMITTED WITH PRIOR APPROVAL OF AUTHORITY.

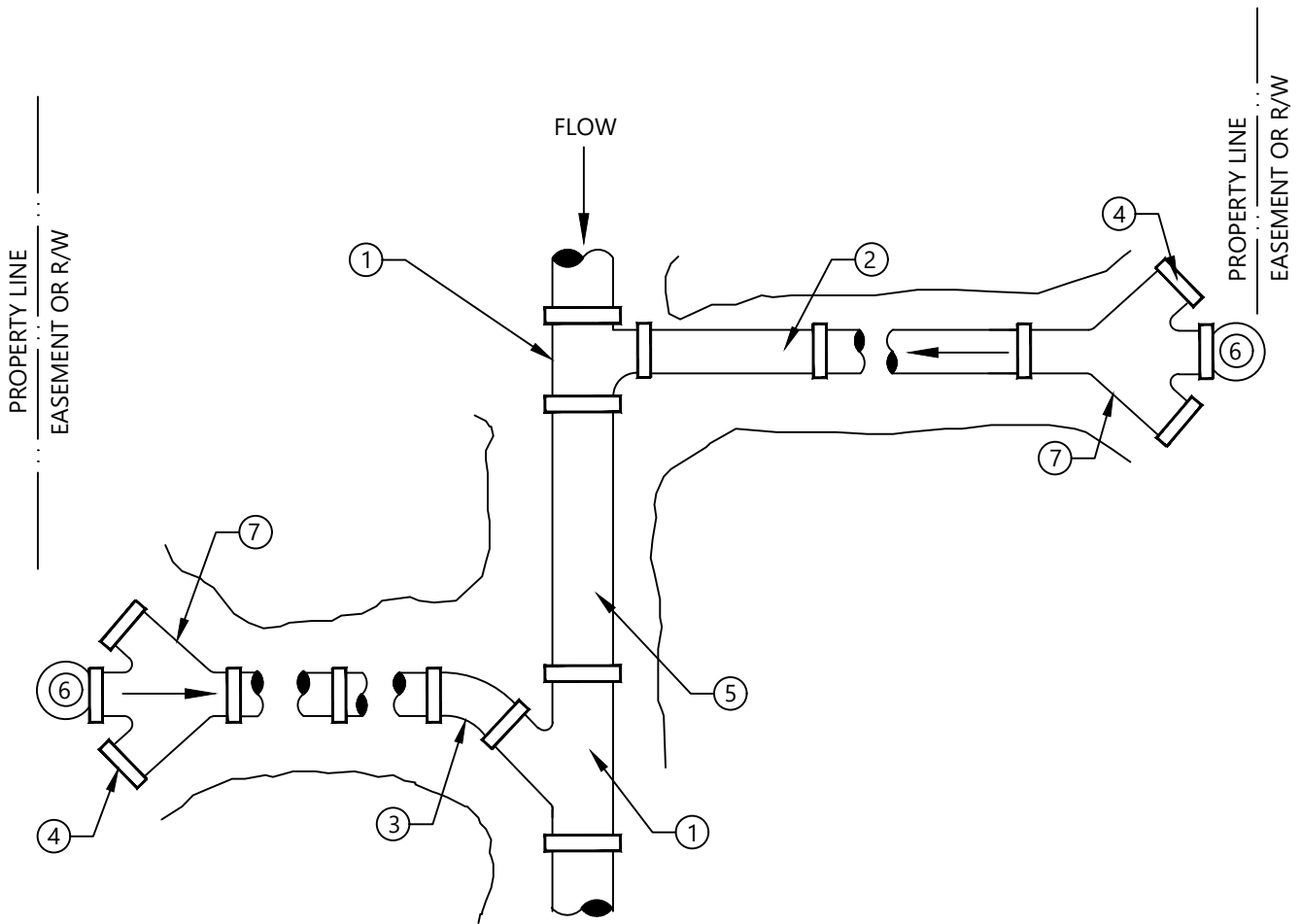
SECTION



STRAP DETAIL

NOT TO SCALE


	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: INSIDE MANHOLE DROP	
REVISION: 3/22/24	DETAIL NO: S-11.dwg	

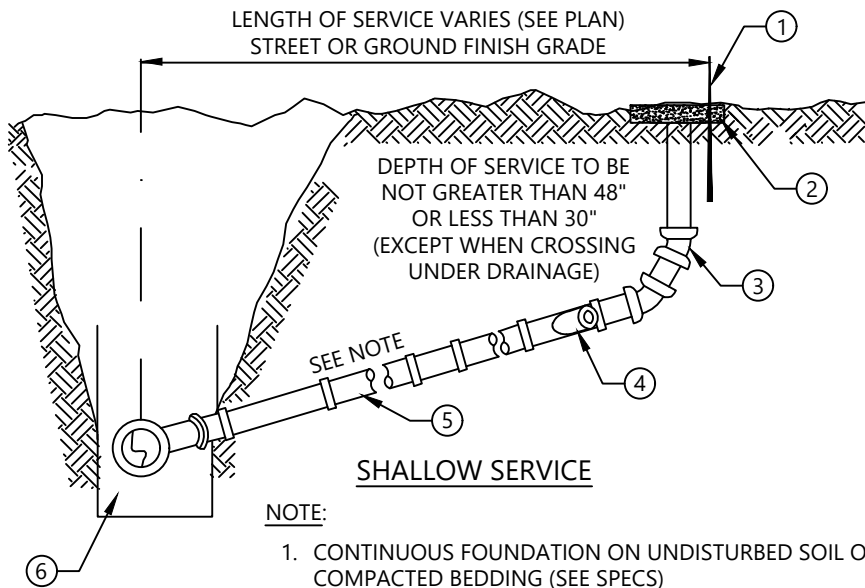


NOTE: 1. SEE SPECS FOR DETAILS OF PIPE AND FITTINGS.

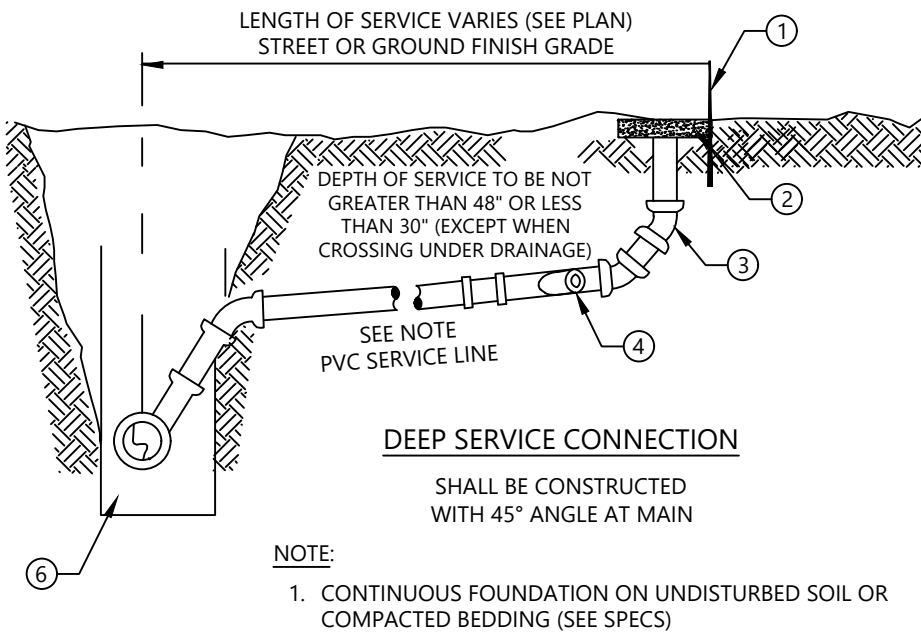
- ① STANDARD WYE OR TEE WYE
- ② PVC SEWER SERVICE LINE
- ③ SHORT RADIUS 45° BEND WITH WYE FITTINGS
- ④ PLUG ENDS WITH HEAVY WALL PVC CAPS (TYP)
- ⑤ 5' MIN. PIPE BETWEEN FITTINGS
- ⑥ 6" OR 8" CLEANOUT
- ⑦ DOUBLE 45° WYE (SIZE TBD)

NOT TO SCALE


	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: STANDARD SEWER SERVICE LATERAL	
REVISION: 3/27/24	DETAIL NO: S-12.dwg	

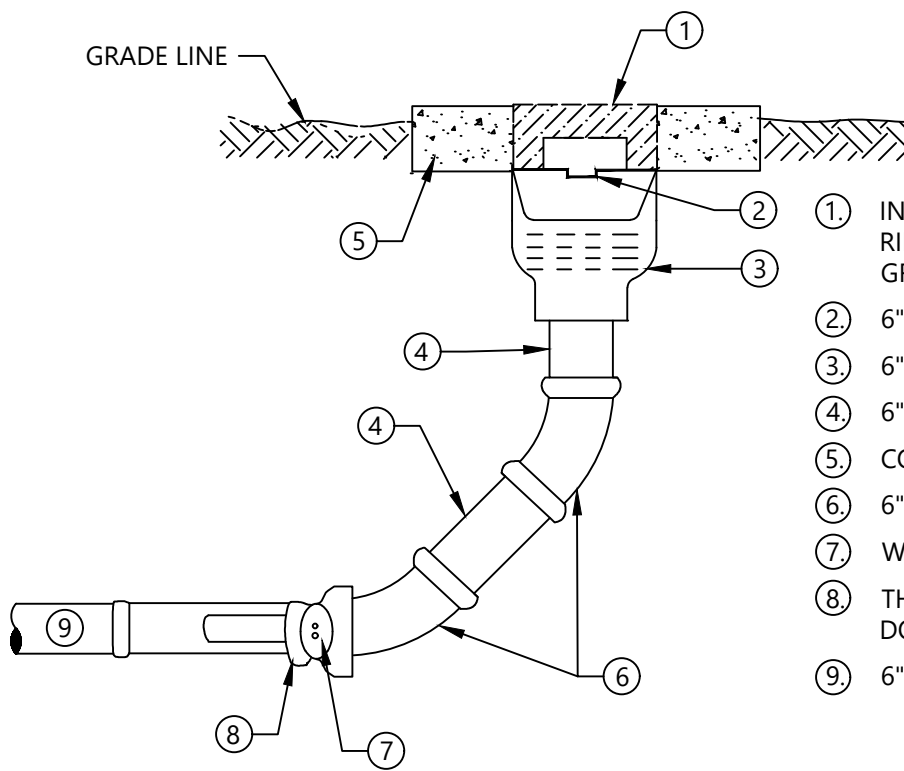


- ① FLAGGED STAKE
- ② CONCRETE COLLAR 24"X24"X4"
- ③ SEWER CLEANOUT (SEE STANDARD DETAIL S-14)
- ④ DOUBLE 45° WYE (SIZE TBD)
- ⑤ SERVICE SHALL BE INSTALLED AT SLOPE OF NOT LESS THAN 0.63% OR GREATER THAN 2%
- ⑥ SEE TRENCH SECTION DETAIL



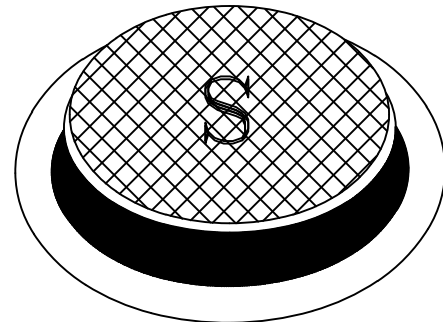
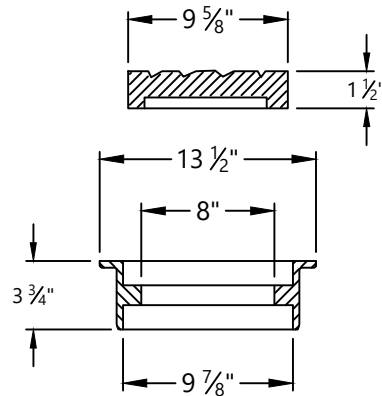
NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: STANDARD SEWER SERVICE LATERAL	
REVISION: 3/27/24	DETAIL NO: S-13.dwg	



- ①. IN ALL CASES USE TRAFFIC BEARING HANDHOLE RING & COVER OR EQUAL ADJUSTED TO FINAL GRADE WITH CLEANOUT RECESSER
- ②. 6" OR 8" THREADED CAP
- ③. 6" OR 8" PVC FEMALE ADAPTER
- ④. 6" OR 8" PVC RISER
- ⑤. CONCRETE COLLAR 24"X 24"X4"
- ⑥. 6" OR 8" 45° ELBOW
- ⑦. W/WATERTIGHT PLUG
- ⑧. THE CONNECTION MUST BE MADE TO THE DOUBLE 45° WYE (SIZE TBD)
- ⑨. 6" OR 8" PVC SEWER PIPE


REVERSIBLE HANDHOLE RING AND COVER

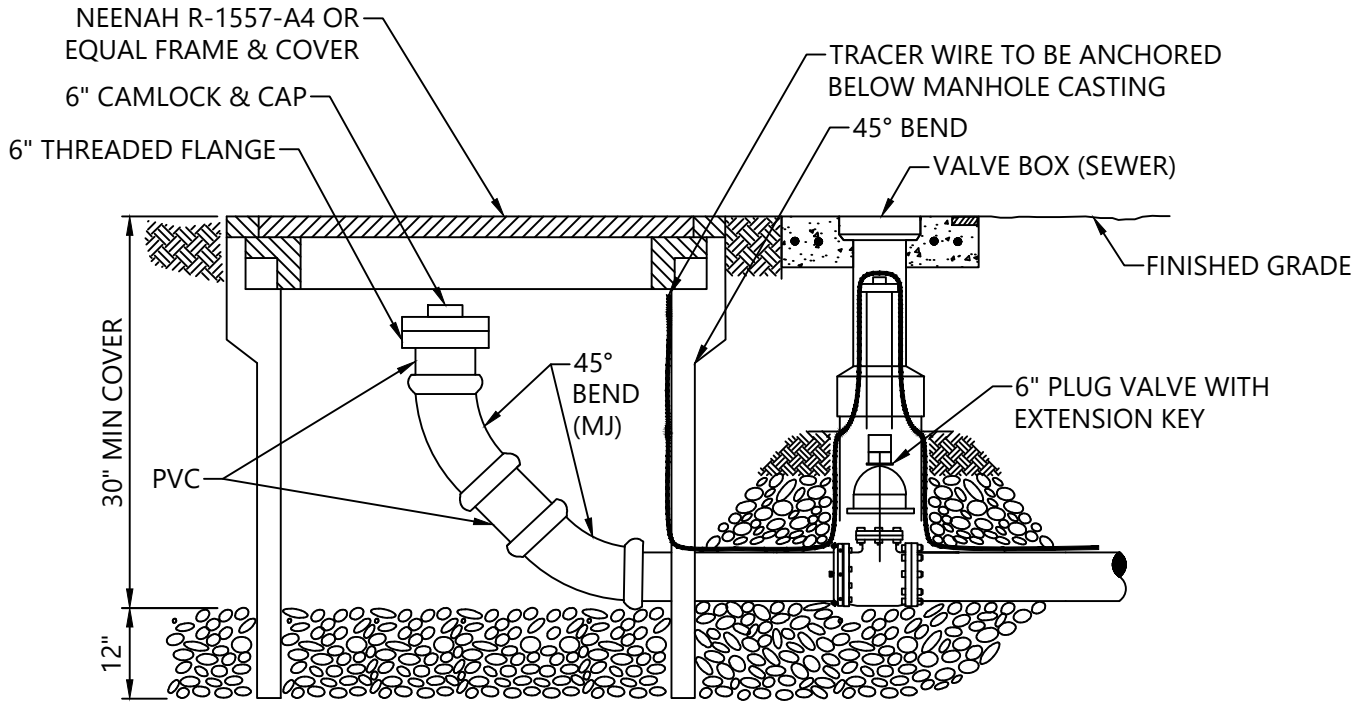


COVERS ARE MARKED WITH "S"

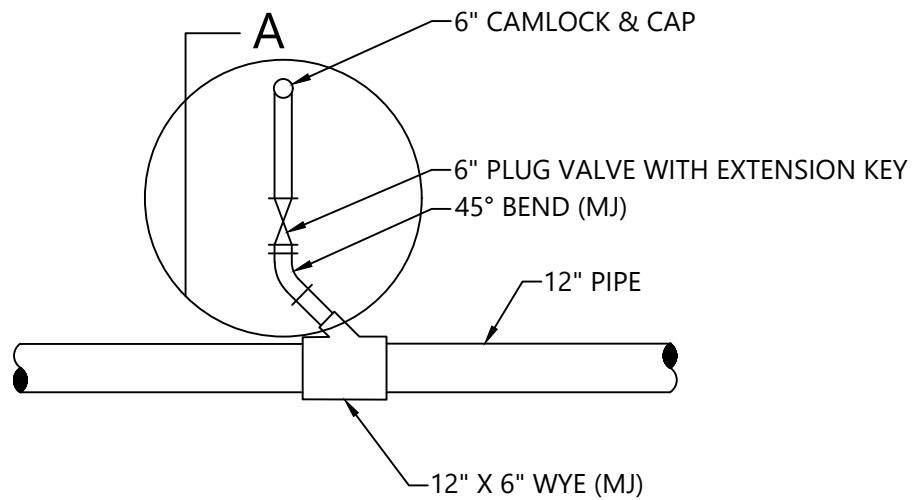
COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
FE	HEAVY DUTY	20	45

NOT TO SCALE


	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: 6" TO 8" SEWER CLEANOUT	
<small>REVISION:</small> 4/2/24	<small>DETAIL NO:</small> S-14.dwg	

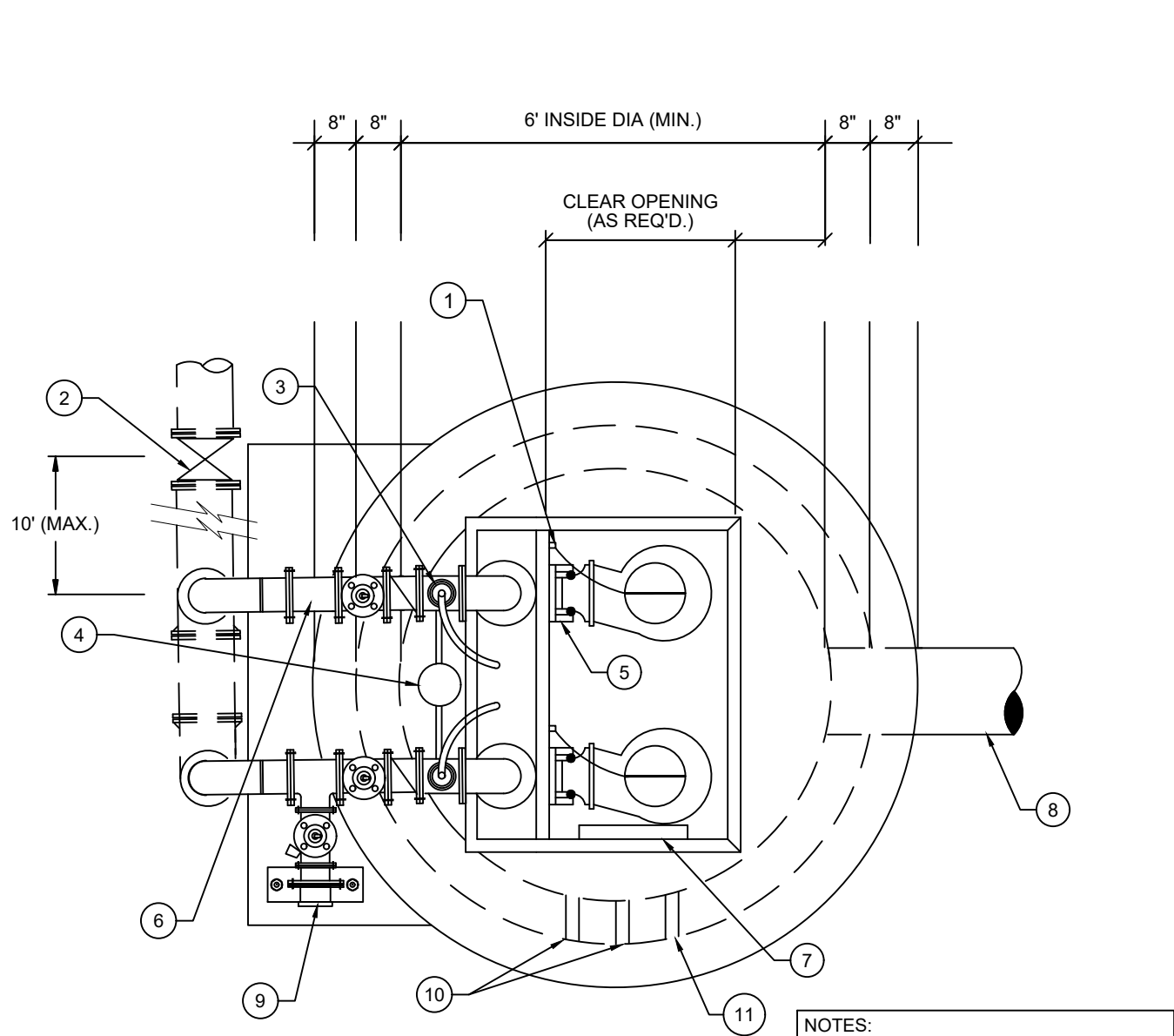


SECTION "A"



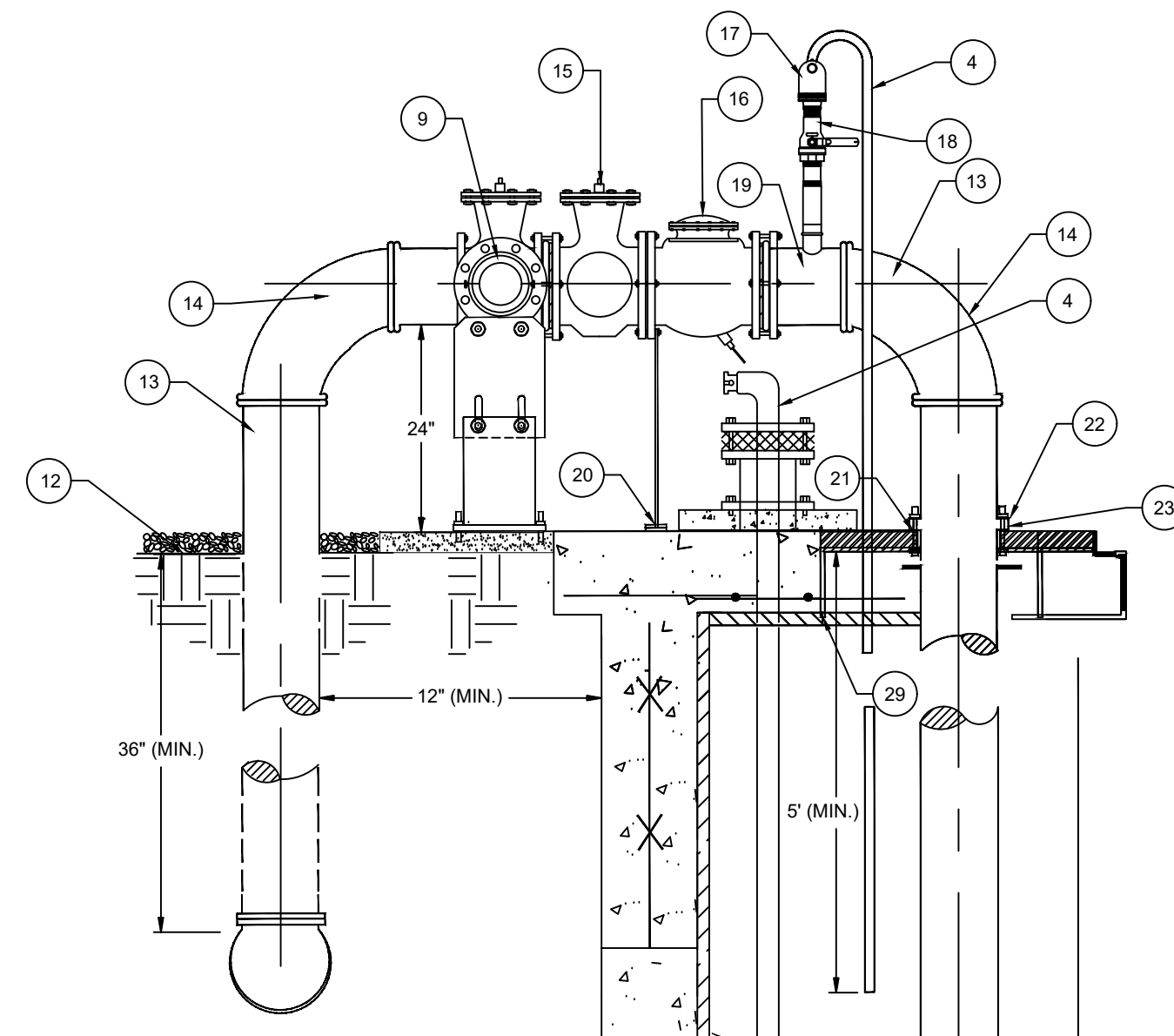
NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: PRESSURE CLEANOUT DETAIL	
<small>REVISION:</small> 1/19/24	<small>DETAIL NO:</small> S-15.dwg	

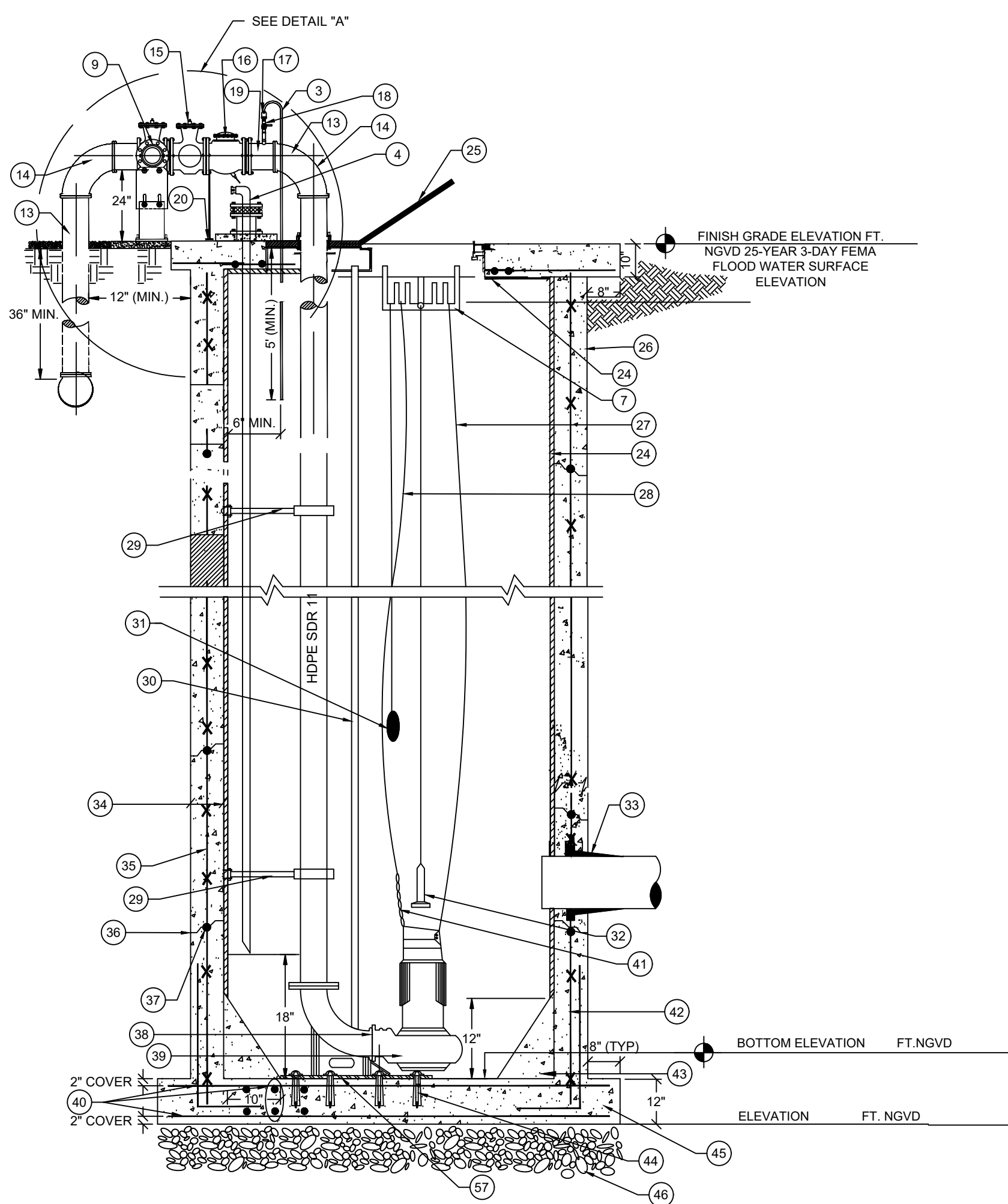


WETWELL PLAN

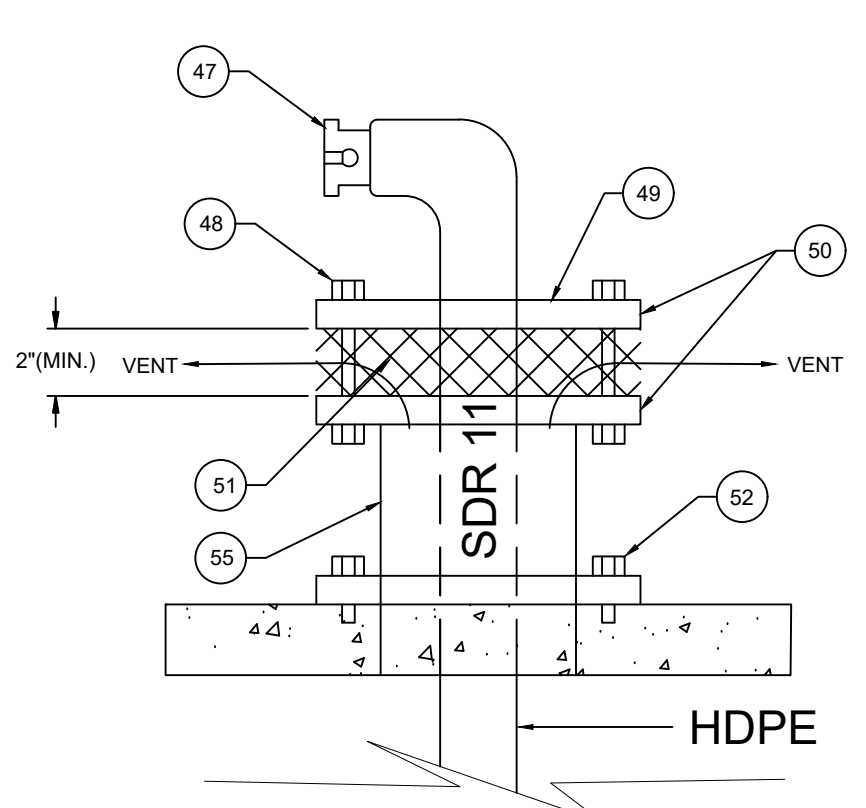
NOTES:
 CONTRACTOR TO SET PUMPS AND ACCESS COVER TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS.
 CONDUIT FOR PUMP POWER CABLES & FLOAT SWITCH CABLES, PLACEMENT IS TO BE DETERMINED BY LOCATION OF CONTROL PANEL.



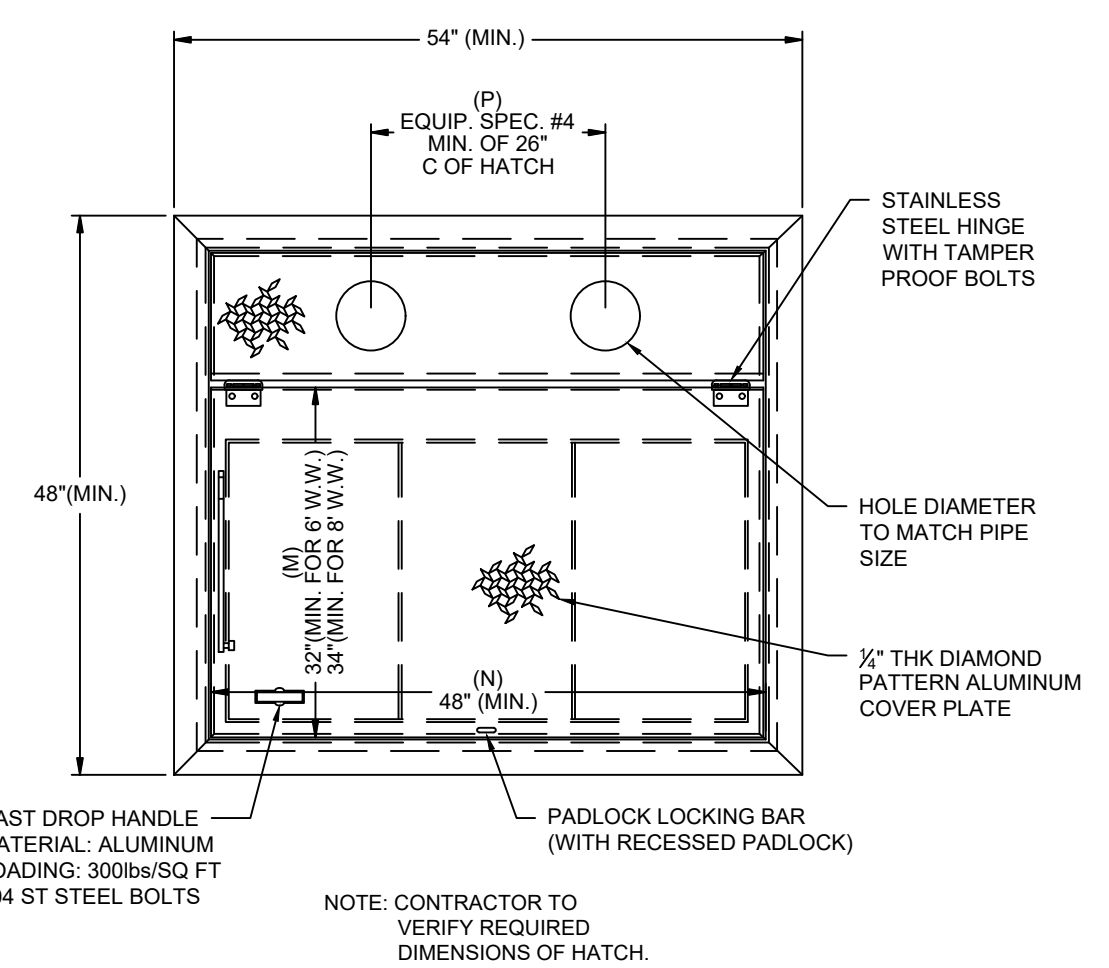
DETAIL "A"



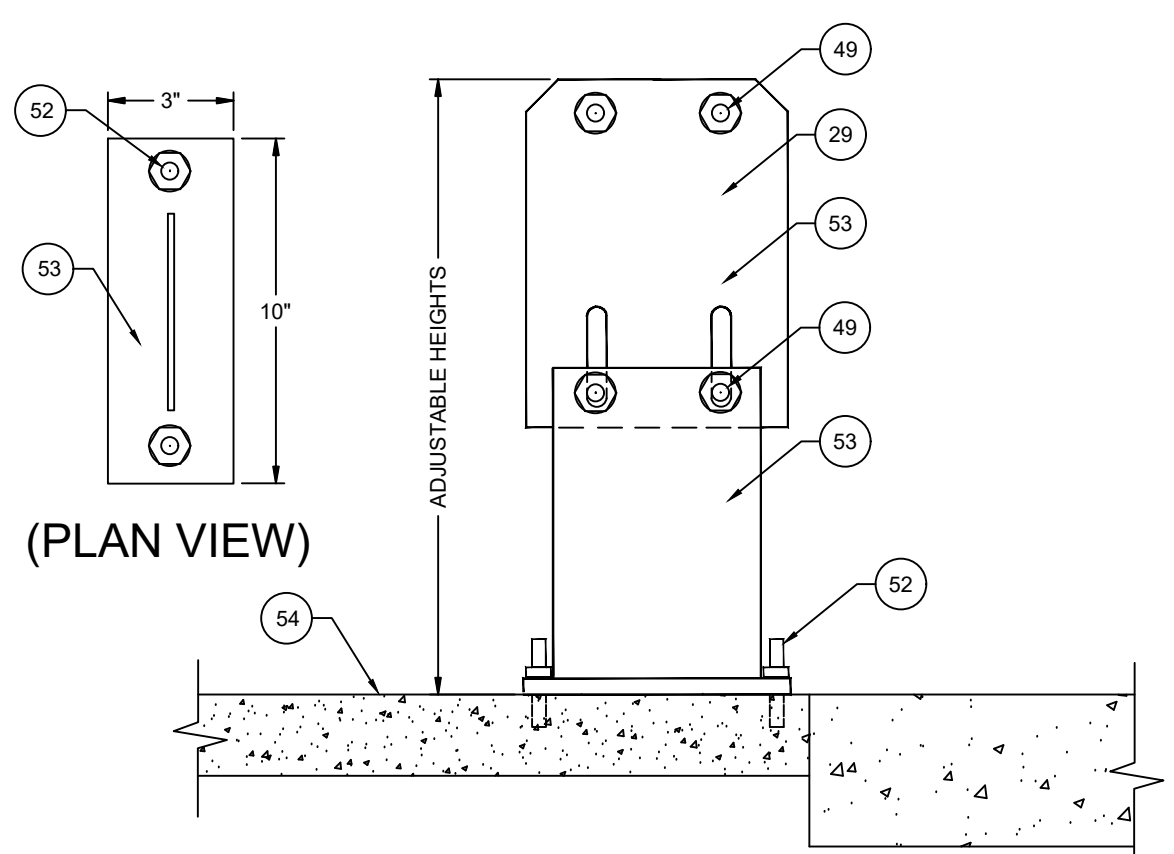
SECTION



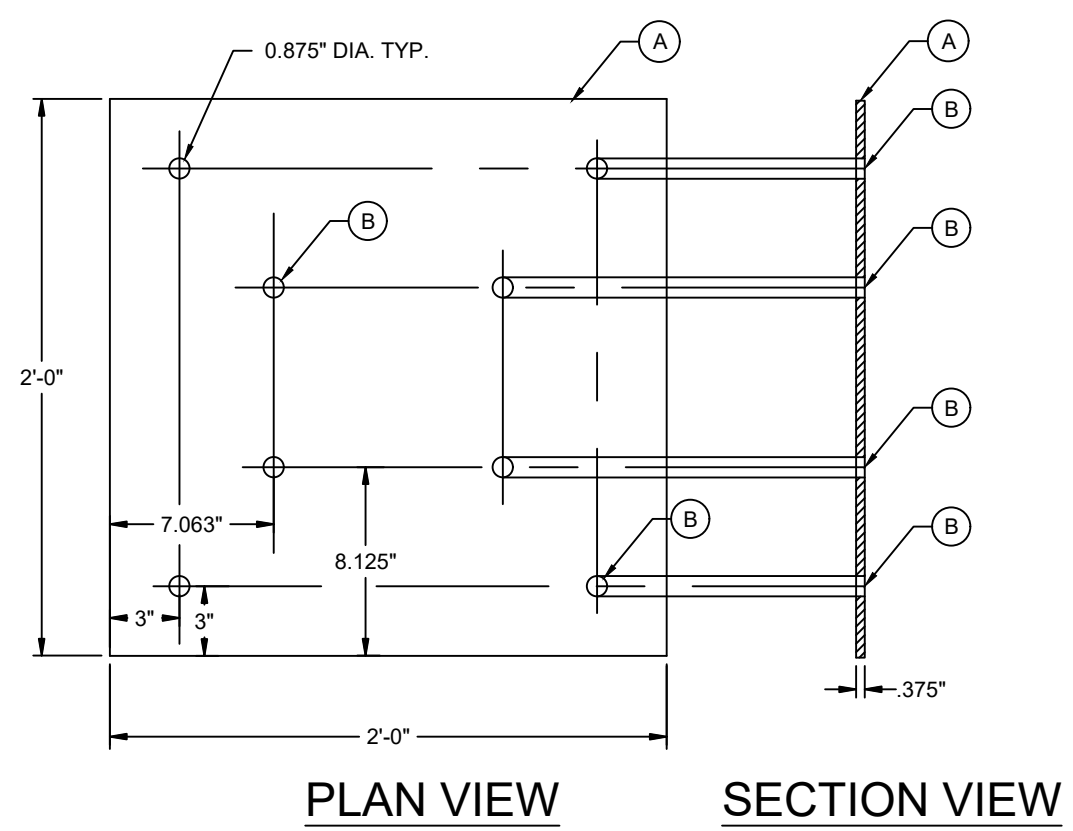
EMERGENCY PUMP OUT AND AIRVENT DETAIL



WETWELL ACCESS HATCH



PIPE SUPPORT DETAIL (INSTALLED AT PLUG VALVE & PUMP OUT)



PUMP DISCHARGE BASEPLATE

GENERAL NOTES AND REQUIREMENTS

- 1/2" THK. SERIES 300 STAINLESS STEEL HOOKS FOR HOIST CABLES
- PLUG VALVE
- PVC DRAIN LINE FROM AIR RELEASE VALVE TO WETWELL
- EMERGENCY PUMP OUT AND AIRVENT (SAME DIAMETER AS DISCHARGE PIPING) (SEE DETAIL)
- GUIDE RAILS
- SPOOL PIECE
- STAINLESS STEEL FLOAT CABLE SUPPORT
- INFLUENT PIPE INSTALLED RADIALLY FROM WETWELL CENTER
- FEMALE QUICK CONNECT COUPLER WITH CAP & PLUG VALVE
- POWER CABLE
- FLOAT CONTROLS
- FILTER CLOTH WITH 4" OF COMPACTED #57 STONE
- HDPE PIPE
- LONG RADIUS 90° BEND
- PLUG VALVE (PAINT BLACK)
- SWING FLEX CHECK VALVE (PAINT BLACK)
- 2" AUTOMATIC AIR RELEASE VALVE, (SEE LCU APPROVED MATERIAL LIST) ON EACH DISCHARGE PIPE
- 2" STAINLESS STEEL BALL VALVE (SEE APPROVED MATERIAL LIST)
- HDPE BRANCH SADDLE PE 3408 ASTM D3380 (BLACK) WITH FEMALE THREADED INSERT BRASS ALLOY STAINLESS COMPRESSION RING GRADE TYPE 304 OR 316
- STAINLESS STEEL PIPE SUPPORT (SEE DETAIL)
- NEOPRENE GASKET
- STAINLESS STEEL FLANGE RING
- HDPE RIM (FUSED TO HDPE PIPE)
- LINER OR COATING (SEE LCU APPROVED MATERIAL LIST)
- ALUMINUM WETWELL HATCH (SEE DETAIL)
- COAL TAR EPOXY (BELOW FINISHED GRADE)
- SENSOR CABLE
- SERIES 316 STAINLESS STEEL 1/2" CABLE
- SERIES 316 STAINLESS STEEL PIPE SUPPORT
- 2" SERIES 316 STAINLESS STEEL GUIDE RAILS
- HIGH WATER ALARM SIGNAL ON
- SUBMERSIBLE LEVEL TRANSMITTER
- CAST IN PLACE FLEXIBLE PIPE CONNECTION WITH SERIES 316 STAINLESS STEEL CLAMP C-923, CHARDON RUBBER, O/E (TYP.)
- WALL THICKNESS 8" MIN.
- STEEL REINFORCEMENT
- RAM-NEK BLANKET OUTER SIDE OF WETWELL
- RAM-NEK OR EQUAL PREFORMED PLASTIC GASKET MATERIAL BETWEEN PRECAST UNITS (TYP.)
- AUTOMATIC DISCHARGE CONNECTION TO SUIT PUMP
- SUBMERSIBLE PUMPS
- #5 AT 8" CENTER
- SERIES 316 STAINLESS STEEL 3/8" CHAIN (1'-6" LONG)
- #4 AT 8" CENTER
- CONC. OR PORTLAND TYPE II & SAND MIX
- 3/4" DIA. X 8" STAINLESS STEEL WEDGE BOLT SCREW ANCHORS, 8 EA REFER TO LCU STANDARD DETAIL
- BASE SECTION TO BE A MONOLITHIC CASTING
- 12" MIN COMPACTED #57 STONE
- CAM LOCK COUPLING ON EMERGENCY PUMP OUT
- STAINLESS STEEL BOLTS
- BLIND FLANGE
- STAINLESS STEEL CLAMP
- STAINLESS STEEL SCREEN CLOTH
- STAINLESS STEEL CONCRETE BOLTS
- 3/4" STAINLESS STEEL
- 4" THICK 3,000 P.S.I. CONCRETE SLAB
- AIR VENT TO BE 2PIPE SIZES LARGER THAN EMERGENCY PUMP OUT. THE ACTUAL LOCATION IS TO BE DETERMINED IN THE FIELD.
- LCU PREFERRED THE LIFT STATION FENCE TO HAVE DARK GREEN VINYL COATING; HOWEVER, BLACK VINYL IS ACCEPTABLE.
- PUMP DISCHARGE BASE PLATE (SEE DETAIL)

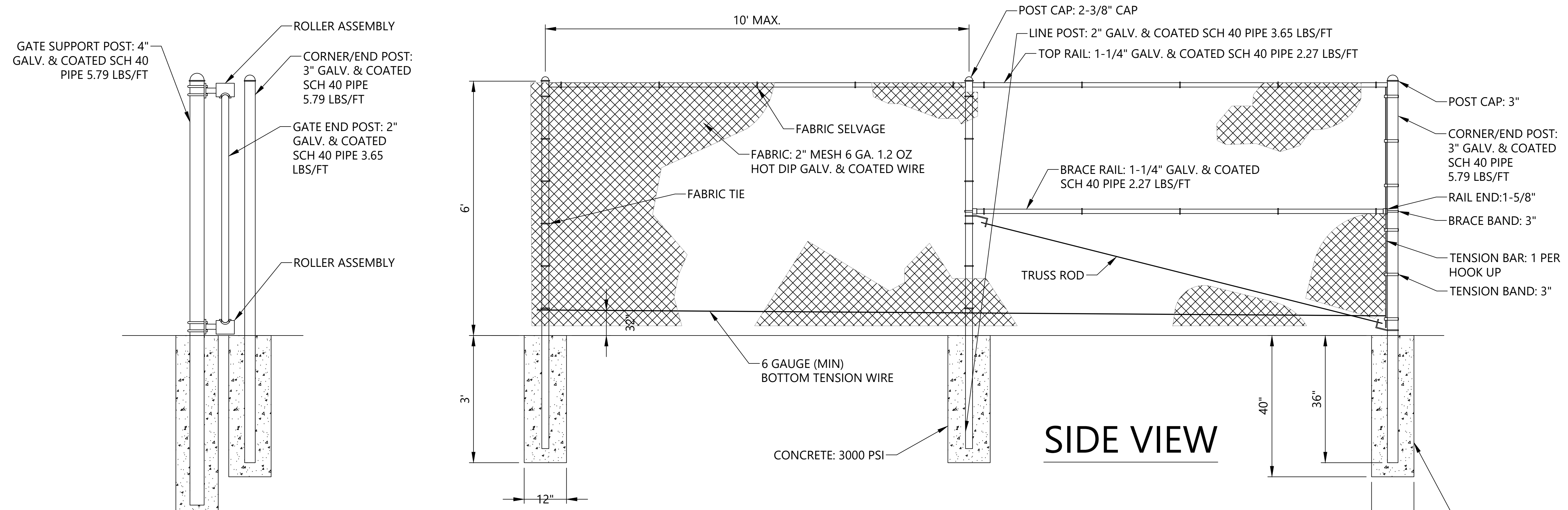
NUMBER OF PUMPS	# 1	# 2	# 3
PUMP MANUFACTURER			
PUMP MODEL NUMBER			
IMPELLER NUMBER			
TYPE OF PUMP			
DESIGN CAPACITY PER PUMP			(GPM)
TOTAL DYNAMIC HEAD			(FEET)
SHUT-OFF HEAD			(FEET)
DESIGN SPEED			(PRM)
MIN. HORSEPOWER PER PUMP			(HP)
VOLTS			(VOLTS)
PHASE POWER			(PH)
PUMP DISCHARGE SIZE			(INCHES)
DIAMETER RISER PIPE			(INCHES)
PUMP ON ELEVATION			(FEET)
HIGH WATER ALARM			(FEET)
PUMP OFF ELEVATION			(FEET)
DIAMETER PIPE AFTER RISER			(INCHES)
DIAMETER WETWELL (I.D.)			(FEET)
TOP OF WETWELL ELEVATION			(FEET)
BOTTOM ELEVATION			(FEET)
INFLUENT GRAVITY PIPE ELEVATION			(FEET)

	BASIS OF DESIGN		
	ADF (gpm)	PHF (gpm)	EDU (1 EDU=250 gpd)
EXISTING			
INTERIM			
FUTURE			

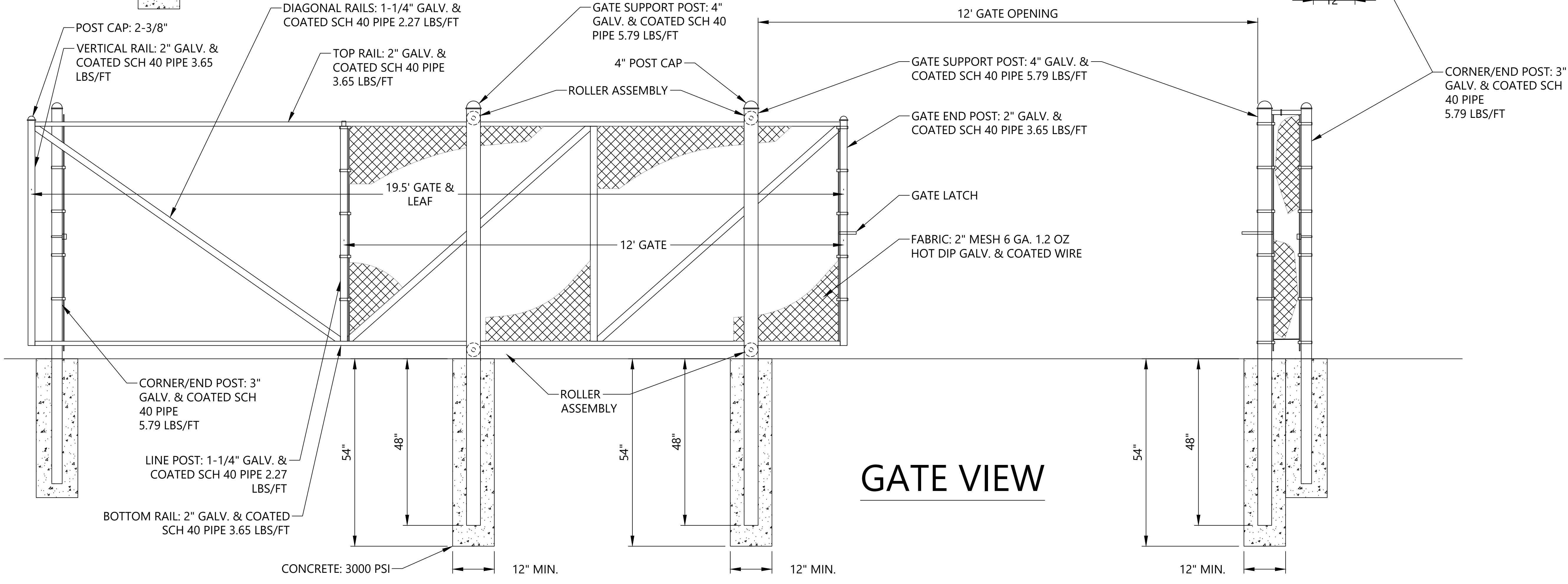
PUMP CURVE

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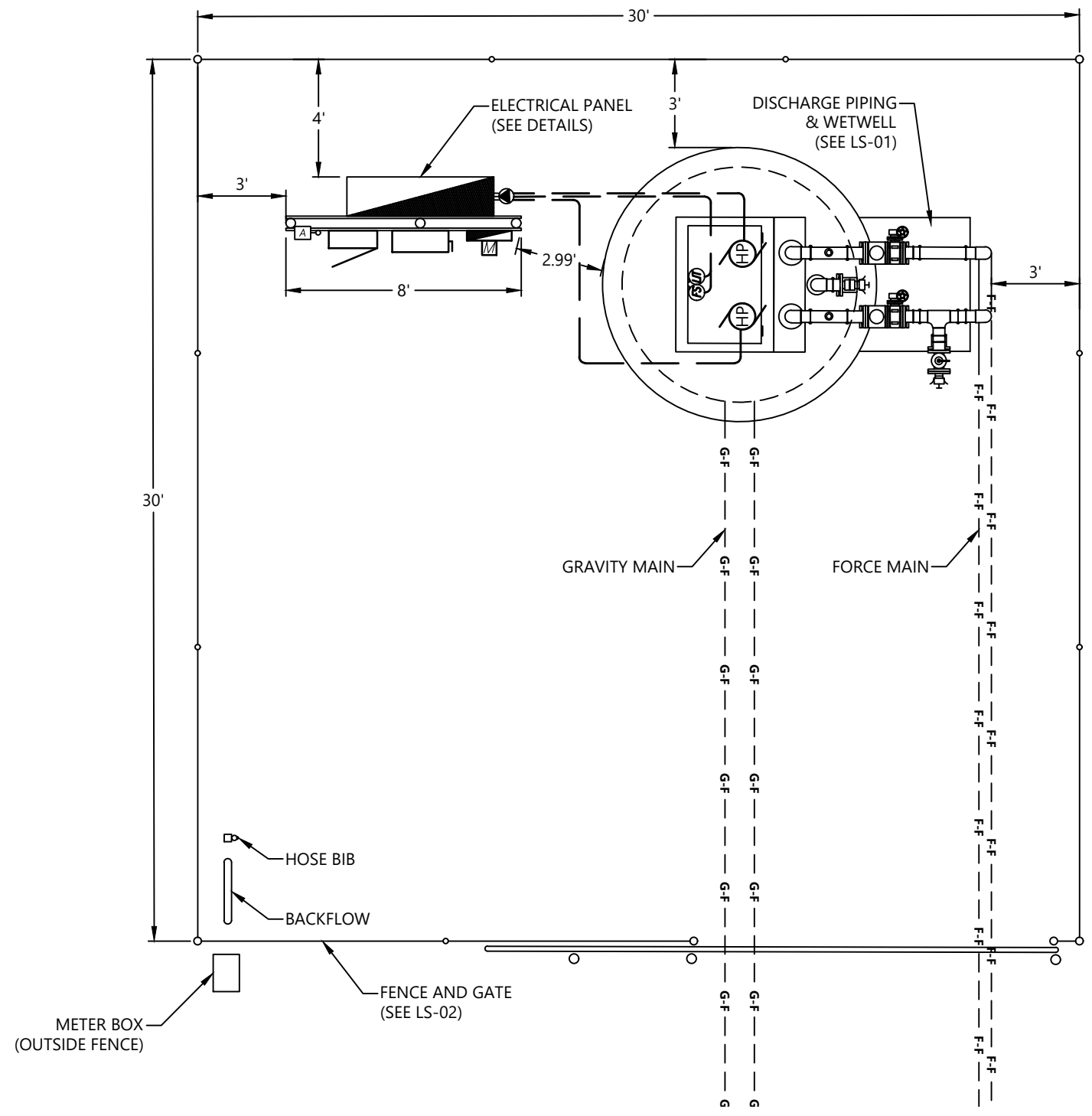
FLOW US GPM



SIDE VIEW



GATE VIEW



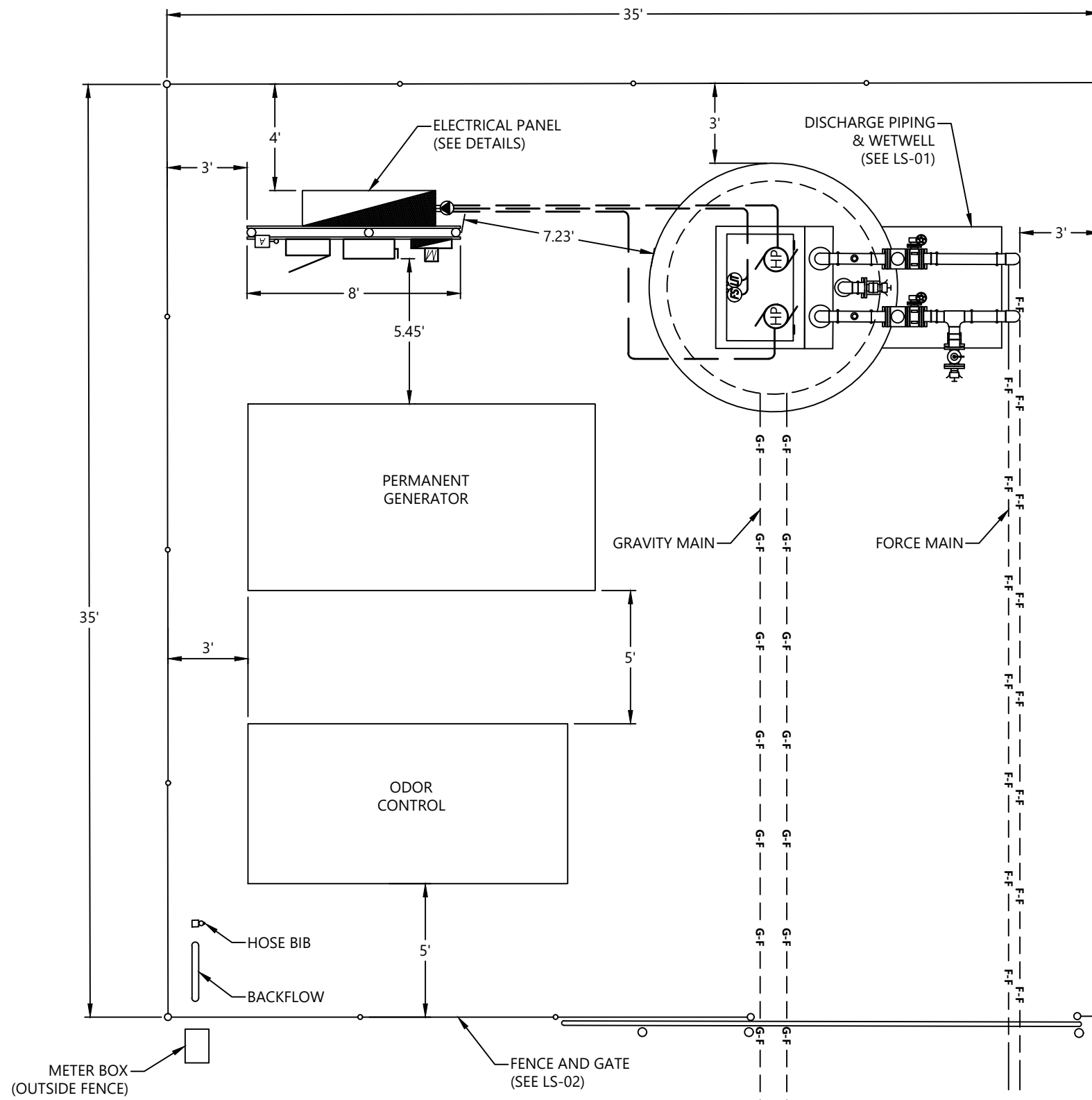
NOT TO SCALE




LEE COUNTY
UTILITIES
ENGINEERING
1500 MONROE STREET
FORT MYERS, FLORIDA 33901

TITLE: STANDARD 30'X30'
LIFT STATION LAYOUT

REVISION: 6/27/24 DETAIL NO: LS-03.dwg



NOT TO SCALE

	LEE COUNTY UTILITIES ENGINEERING <small>1500 MONROE STREET FORT MYERS, FLORIDA 33901</small>	
	TITLE: STANDARD 35'X35' LIFT STATION LAYOUT	
REVISION: 3/20/24	LS-04	DETAIL NO: LS-04.dwg