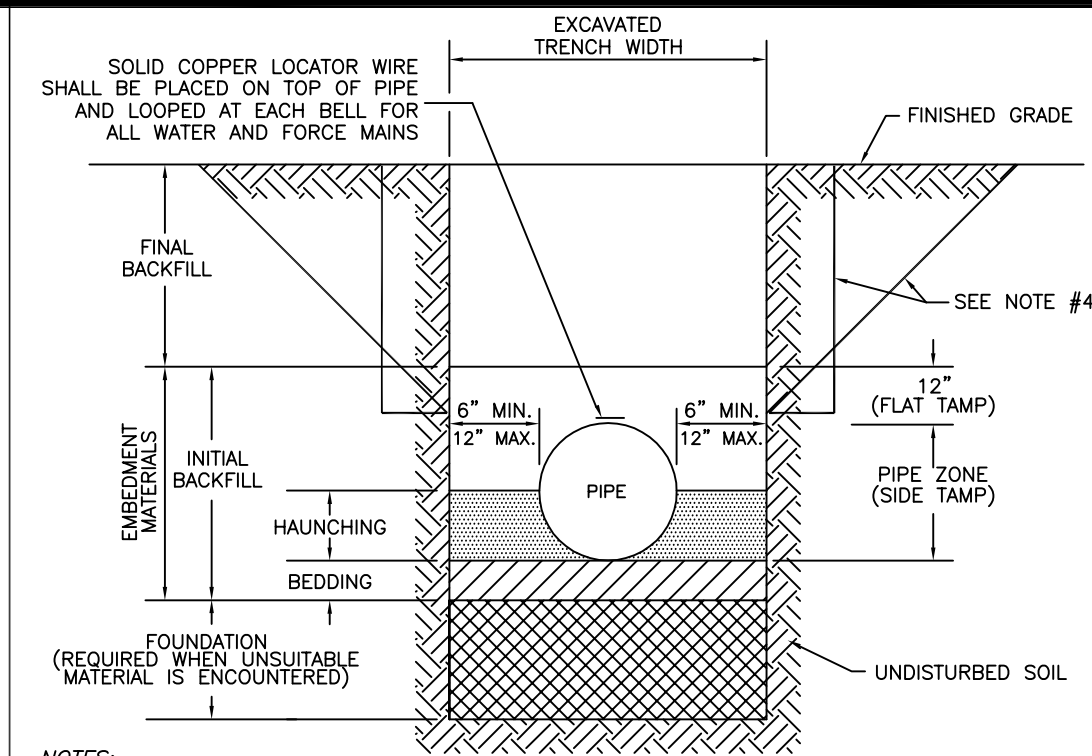
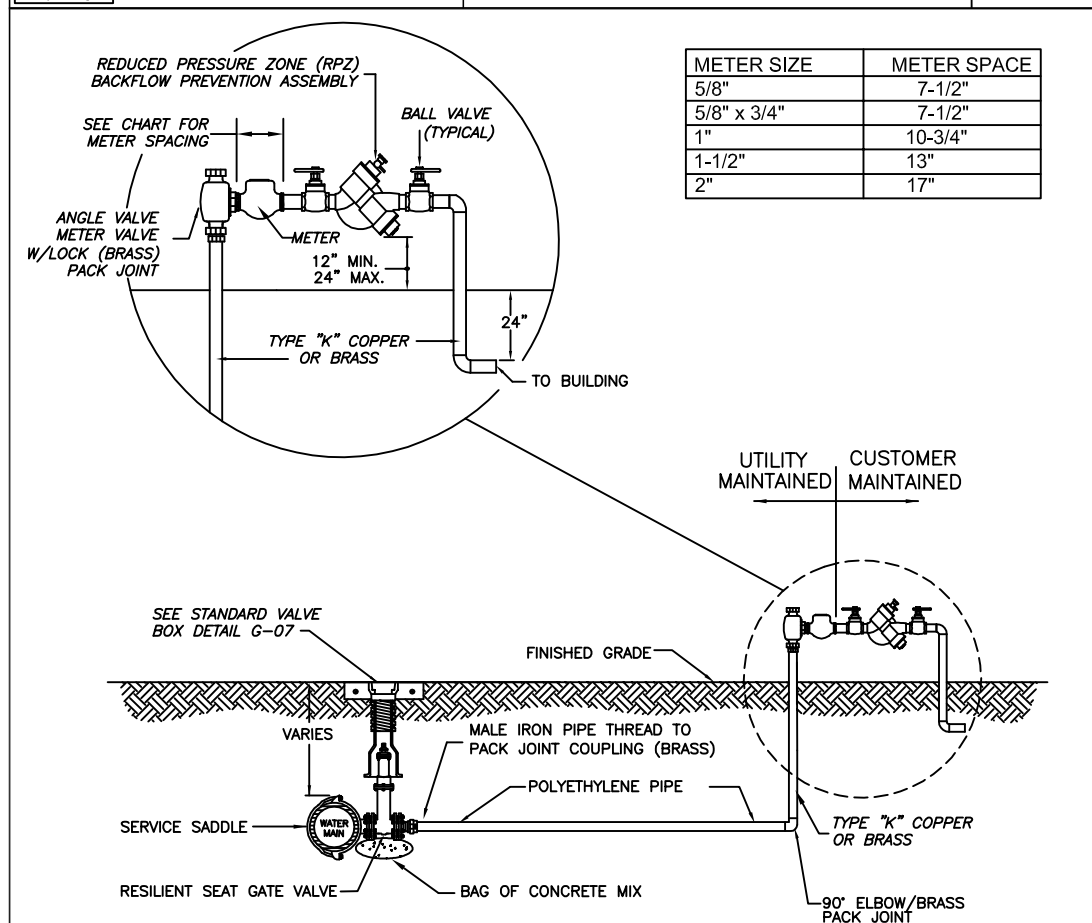


THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY EDC, INC. SHALL BE WITHOUT LIABILITY TO EDC, INC.



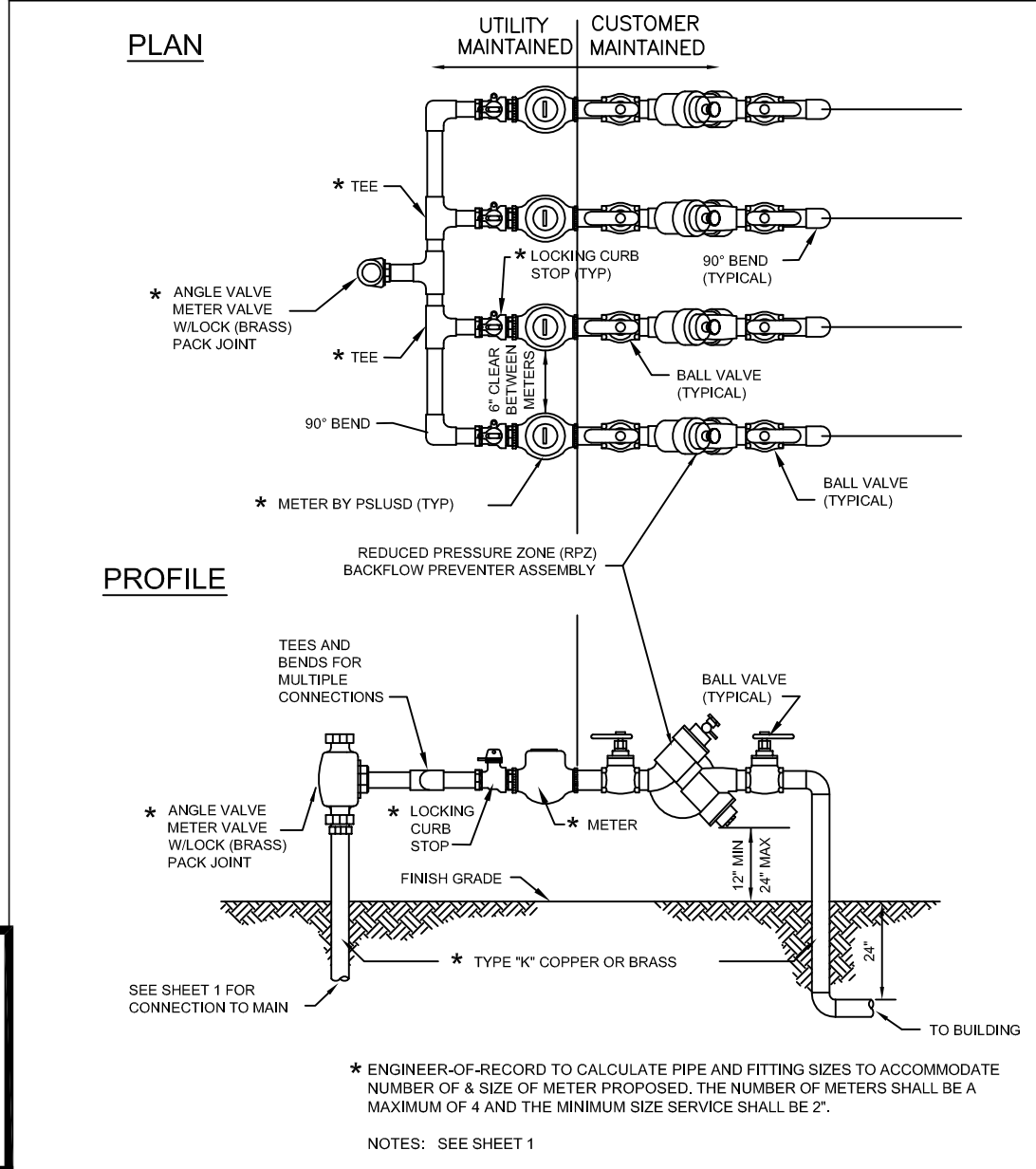
- NOTES:
1. FOR TRENCHES REQUIRING SHEETING, SHORING, STAY BRACING, TRENCH JACKS OR TRENCH BOX, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SUPPORTS.
  2. IF THE MAXIMUM TRENCH WIDTH MUST BE EXCEEDED, THE AREA OUTSIDE OF THE MAXIMUM EMBEDMENT SHALL BE COMPACTED TO FINAL BACKFILL REQUIREMENTS. IF THE PIPE IS INSTALLED IN A COMPACTED EMBANKMENT, THE EMBANKMENT SHALL BE IN PLACE AND COMPACTED TO 12\"/>

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>STANDARD PIPE TRENCH CROSS SECTION</b>	DETAIL: G-04 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 1
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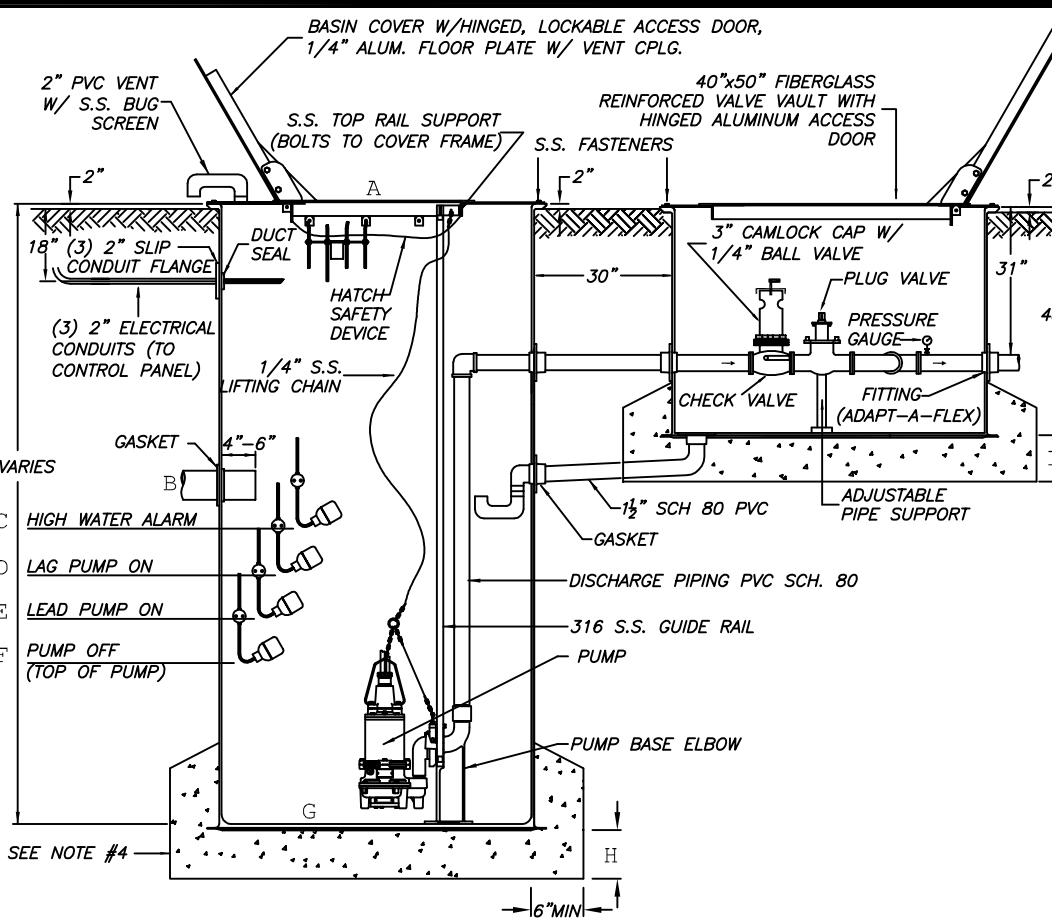


- NOTES:
1. THE ENGINEER-OF-RECORD SHALL SIZE THE PIPE, FITTINGS, VALVES AND APPURTENANCES; THE MINIMUM SHALL BE 2\"/>

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>COMMERCIAL WATER SERVICE CONNECTION</b>	DETAIL: W-03 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 2
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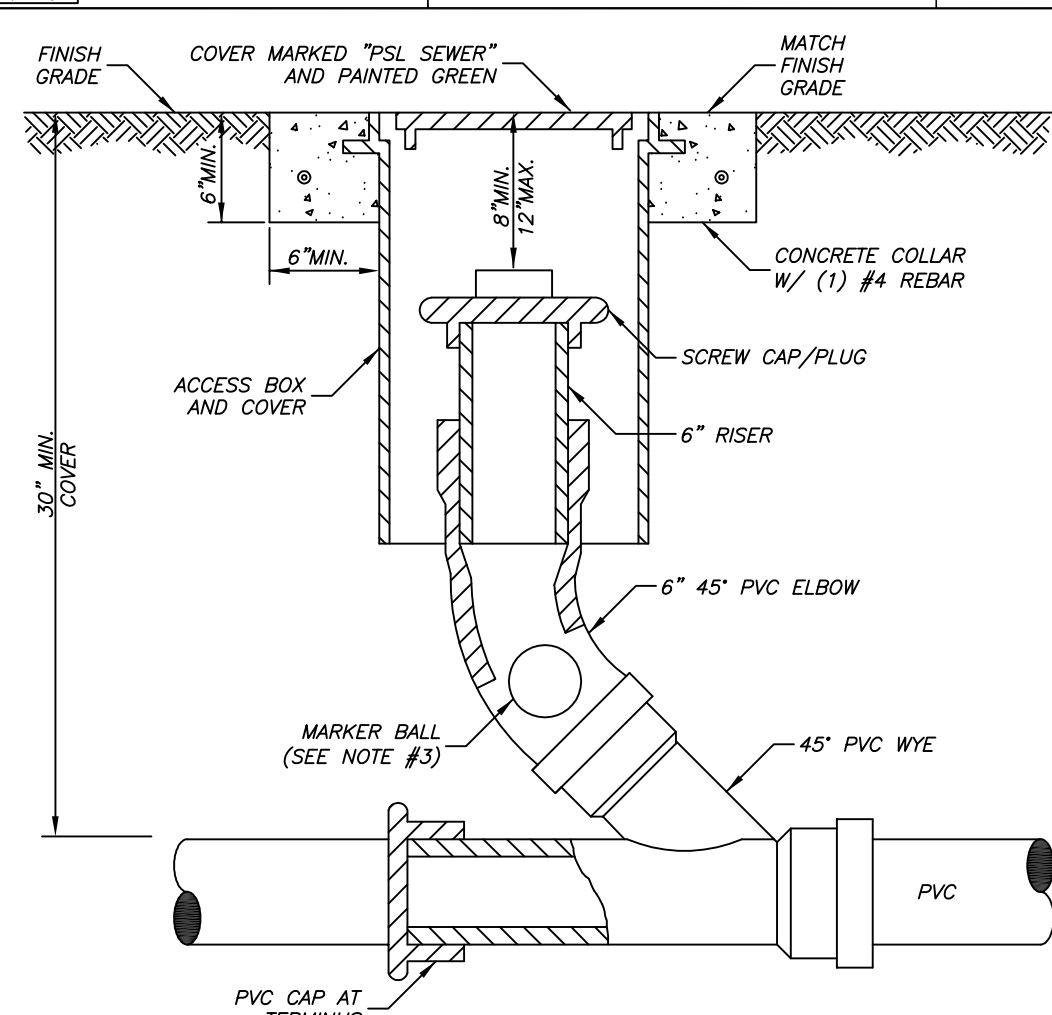


	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>COMMERCIAL MULTI-SERVICE METER BANK ASSEMBLY</b>	DETAIL: W-02 DATE: 2015 SCALE: N.T.S. SHEET: 2 OF 2
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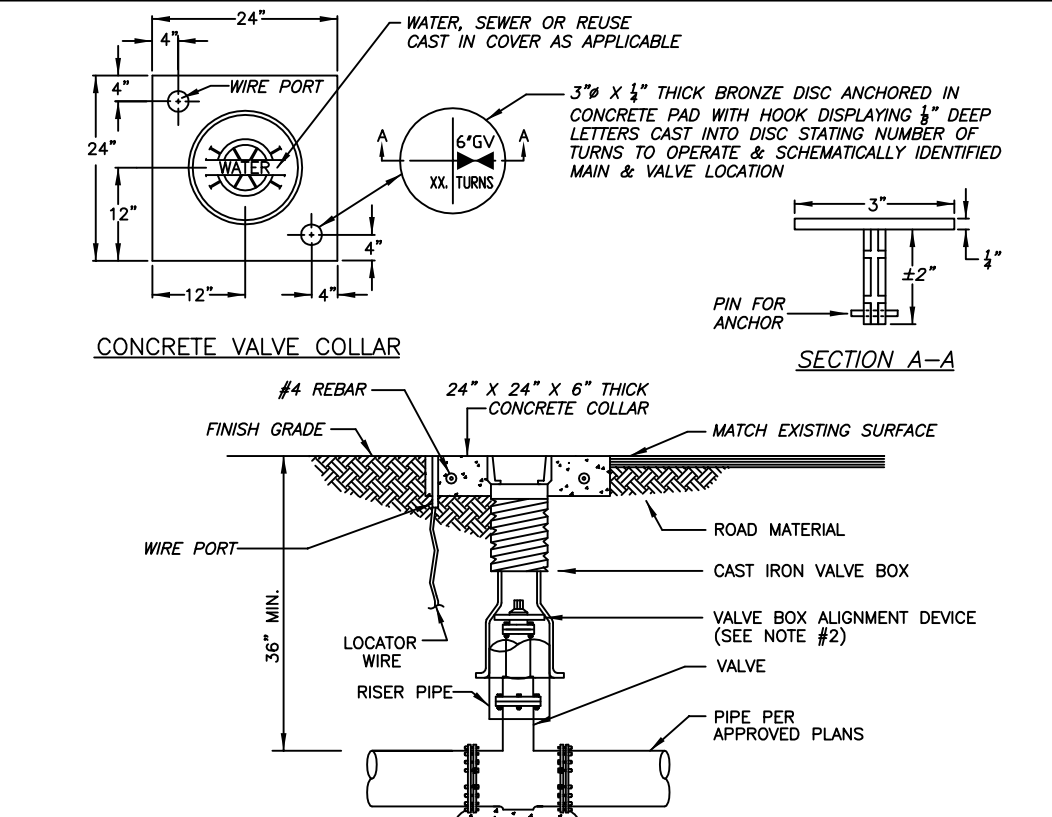
- NOTES:
1. THE DESIGN SPECIFICATIONS FOR THE WET WELL, PUMPS, CONTROL ELEVATIONS AND VALVE VAULT SHALL BE AS SPECIFIED BY THE ENGINEER-OF-RECORD (EOR). IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS.
  2. ALL PIPING FOR VALVE AND PUMP/OUT CONNECTION ASSEMBLY SHALL BE SCH 80, FLANGED PVC.
  3. EOR SHALL VERIFY AND SUBMIT BUOYANCY CALCULATIONS FOR THE ANTI-FLOTATION SLAB. THE WET WELL AND VALVE VAULT BASE SHALL BE PROVIDED WITH SUITABLE SUPPORT DURING INSTALLATION TO ENSURE COMPLETE ENCAPSULATION OF CONCRETE FOR ANTI-FLOTATION.
  4. EXCAVATION, DETERMINING, BACKFILL, AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS. DENSITY TESTS SHALL BE SUBMITTED AS REQUIRED.
  5. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH DETAIL PS-02.

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>THREE PHASE DUPLEX GRINDER SYSTEM</b>	DETAIL: PS-01 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 2
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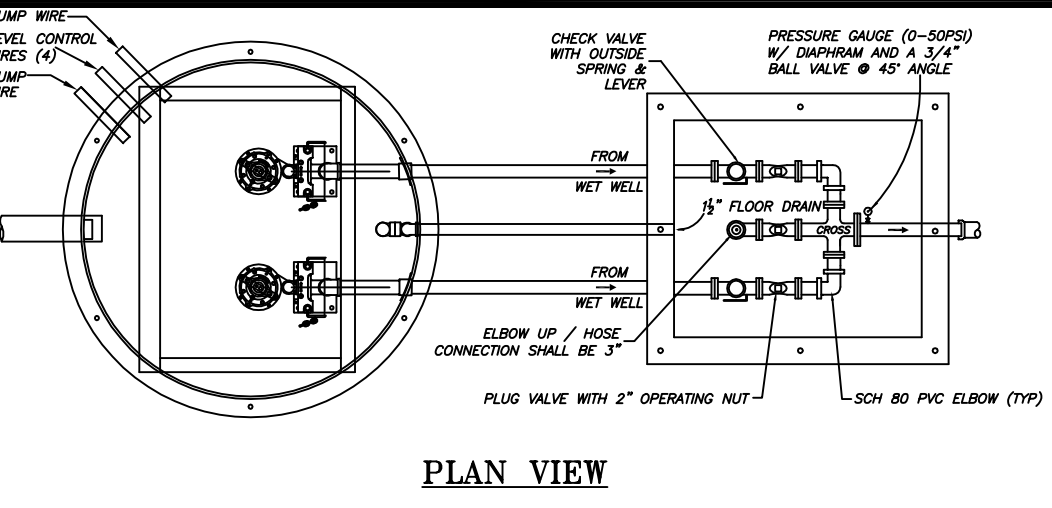
- NOTES:
1. AN ACCESS BOX AND COVER SHALL BE USED.
  2. CLEANOUT ASSEMBLY SHALL BE INSTALLED AT A MAXIMUM 75' INTERVALS AND AT TERMINAL POINT OF THE PSLUSD RESPONSIBILITY. THE LOCATION SHALL BE IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS.
  3. MARKER BALL SHALL BE STRAPPED TO THE ELBOW.

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>SANITARY SEWER CLEANOUT</b>	DETAIL: W-05 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 1
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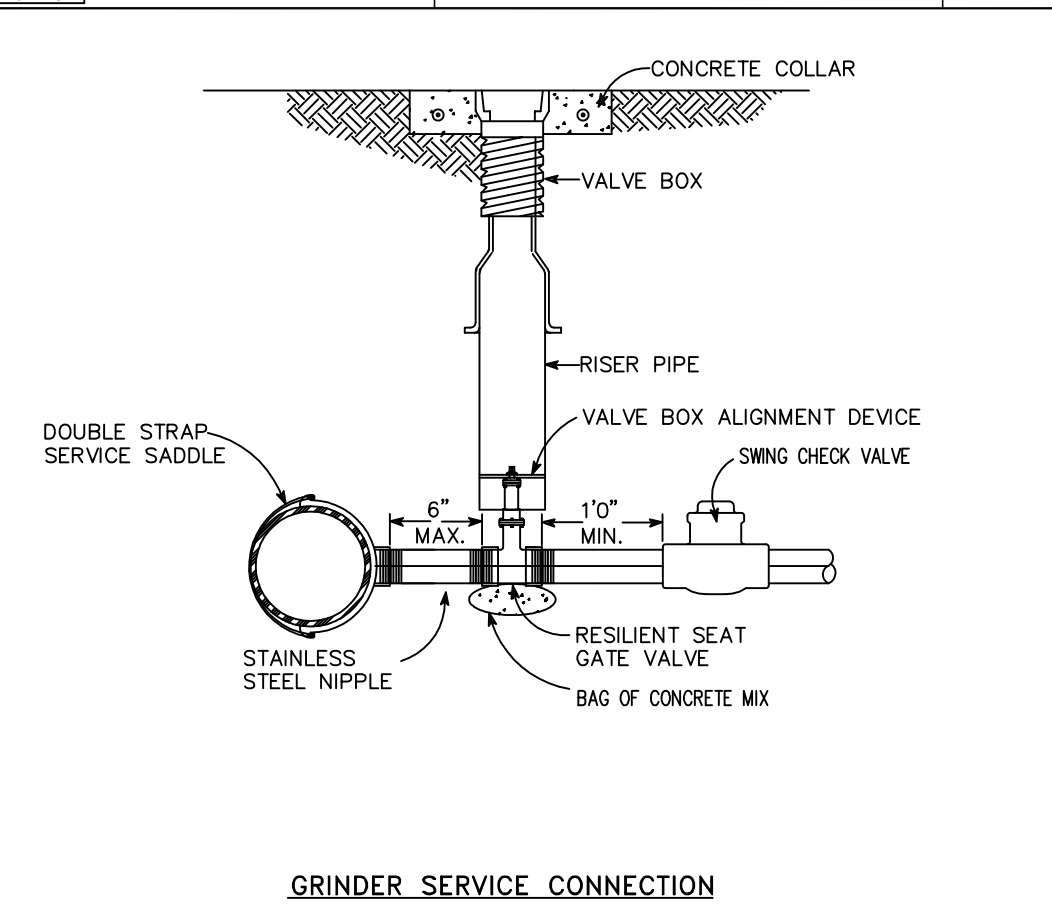
- NOTES:
1. WHEN TOP OF OPERATING NUT IS DEEPER THAN 30\", A HIGH STRENGTH STEEL EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24\"/>

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>TYPICAL VALVE BOX AND COLLAR</b>	DETAIL: G-07 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 2
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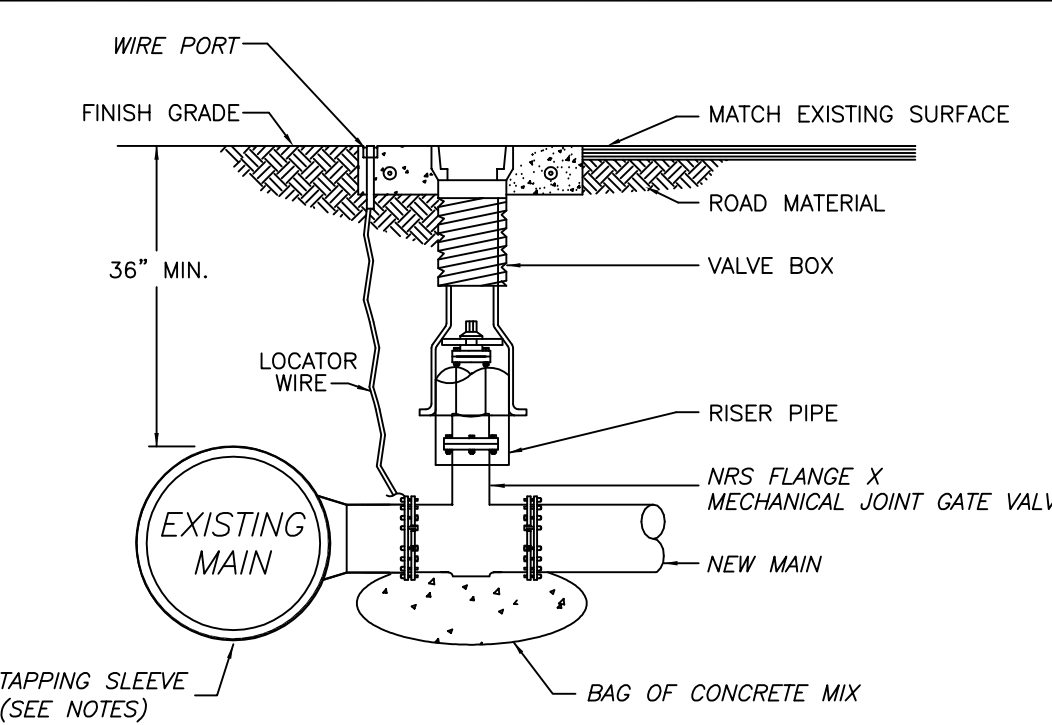
GRINDER PUMP STATION ELEVATIONS	
A RIM ELEVATION	28.50 FT NAVD
B INFLUENT INVERT ELEVATION	24.50 FT NAVD
C HIGH WATER ALARM	24.00 FT NAVD
D LAG PUMP \"ON\"	23.50 FT NAVD
E LEAD PUMP \"ON\"	23.00 FT NAVD
F PUMPS \"OFF\"	22.50 FT NAVD
G WET WELL BOTTOM ELEVATION	18.50 FT NAVD
H THE ANTI-FLOTATION SLAB (WET WELL)	24 IN
I THE ANTI-FLOTATION SLAB (VALVE VAULT)	12 IN
J INFLUENT DIAMETER	8 IN

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>THREE PHASE DUPLEX GRINDER SYSTEM</b>	DETAIL: PS-01 DATE: 2015 SCALE: N.T.S. SHEET: 2 OF 2
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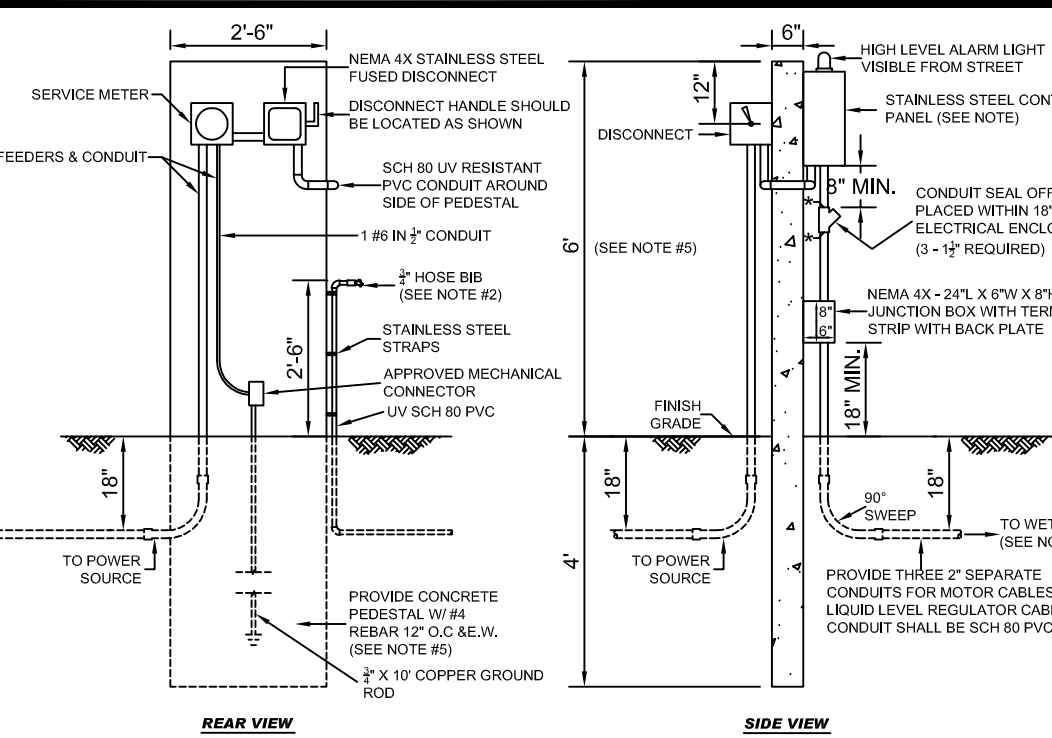
- NOTES:
1. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH DETAIL G-07 FOR TYPICAL BOX AND COLLAR.

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>GRINDER SYSTEM SERVICE LINE TAP TO MAIN LINE</b>	DETAIL: PS-03 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 1
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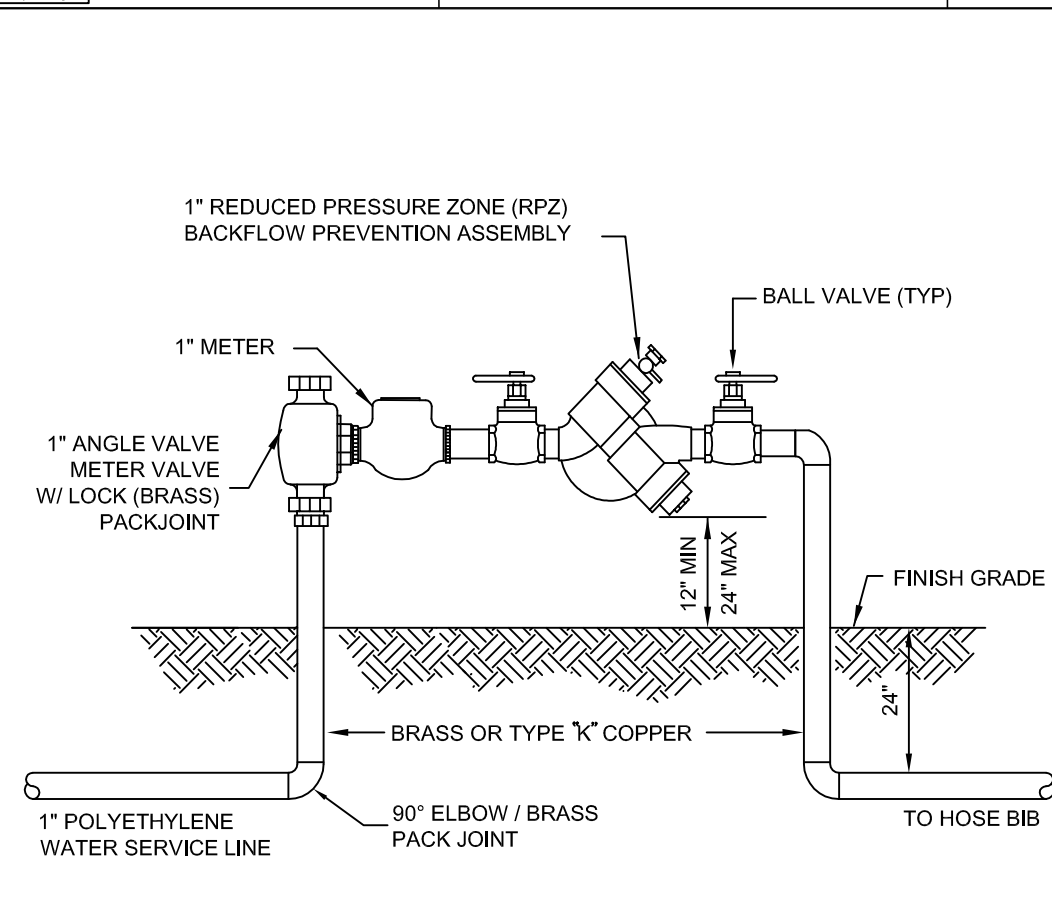
- NOTES:
1. THE VALVE BOX AND COLLAR SHALL BE IN ACCORDANCE WITH STANDARD DETAIL G-07.
  2. THRUST BLOCKS MAY BE REQUIRED AT THE UTILITY'S DIRECTION. (CASE BY CASE)
  3. NO TAP WILL BE ALLOWED CLOSER THAN 5 FEET FROM ANY JOINT, FITTING OR EXISTING TAP ALONG THE MAIN.
  4. ALL COUPONS MUST BE PROVIDED TO PSLUSD WITH DATE, LOCATION AND PIPE SIZE DOCUMENTED.
  5. SIZE ON SIZE TAPS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY PSLUSD.

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>TAPPING SLEEVE AND VALVE ASSEMBLY</b>	DETAIL: G-10 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 1
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- NOTES:
1. THE HORIZONTAL DISTANCE FROM THE FACE OF THE CONTROL PANEL TO THE EDGE OF THE WET WELL SHALL BE A MINIMUM OF 6\"/>

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>DUPLEX GRINDER SYSTEM CONTROL PANEL - PEDESTAL DETAIL INSIDE PSL CITY LIMITS</b>	DETAIL: PS-02 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 2
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- NOTES:
1. BOTH RISERS SHALL BE BRASS OR TYPE 1/2\"/>

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>GRINDER SYSTEM WATER METER AND BACKFLOW PREVENTION ASSEMBLY</b>	DETAIL: PS-06 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 1
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- NOTES:
1. THE VALVE BOX AND COLLAR SHALL BE IN ACCORDANCE WITH STANDARD DETAIL G-07.
  2. THRUST BLOCKS MAY BE REQUIRED AT THE UTILITY'S DIRECTION. (CASE BY CASE)
  3. NO TAP WILL BE ALLOWED CLOSER THAN 5 FEET FROM ANY JOINT, FITTING OR EXISTING TAP ALONG THE MAIN.
  4. ALL COUPONS MUST BE PROVIDED TO PSLUSD WITH DATE, LOCATION AND PIPE SIZE DOCUMENTED.
  5. SIZE ON SIZE TAPS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY PSLUSD.

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	<b>TAPPING SLEEVE AND VALVE ASSEMBLY</b>	DETAIL: G-10 DATE: 2015 SCALE: N.T.S. SHEET: 1 OF 1
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**ENGINEERING DESIGN & CONSTRUCTION, INC.**  
1934 TUCKER COURT  
FT. PIERCE, FL 34950  
phone: 772-462-2455  
fax: 772-462-2454  
BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF AUTHORIZATION NUMBER 9935

DESIGNED BY XXX	DRAWN BY XXX	FILE NAME 13-1359-05-05-2016-Sub set 04.dwg	LAYOUT GRINDER STATION DETAILS	AS SHOWN SCALE 01 MARCH 2016	DATE
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REVISION COMMENTS
DATE

**GATLIN / EDGARCE OFFICE**  
**P.S.L GRINDER STATION DETAILS**  
**FLORIDA**  
**PORT ST. LUCIE**

(DATE)  
R.J. KENNEDY, P.E.  
#56218  
1934 TUCKER COURT  
FT. PIERCE, FL 34950  
phone: 772-462-2455

13-1359  
BID SET NOT FOR CONSTRUCTION  
9 OF 11  
PSL PROJECT NO. P14 - 019  
PSLUSD FILE NO. 5192