

- 1. TEMPORARY FILL SHALL BE PLACED UNTIL FDEP CLEARANCE HAS BEEN RECEIVED.
- 2. AFTER FDEP CLEARANCE HAS BEEN RECEIVED, THE CORPORATION STOP SHALL BE CLOSED, PE TUBING SHALL BE REMOVED, AND A CAP/PLUG SHALL BE INSTALLED AT THE CORPORATION STOP.



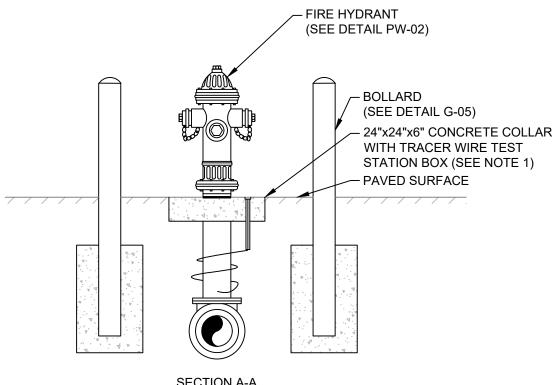
TEMPORARY SAMPLE POINT

- FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF SHERWIN-WILLIAMS SAFETY YELLOW #7543.
- FIRE HYDRANTS INSTALLED IN PAVED AREAS SHALL BE PROTECTED WITH BOLLARDS. REFER TO DETAIL PW-03. o, ω
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.

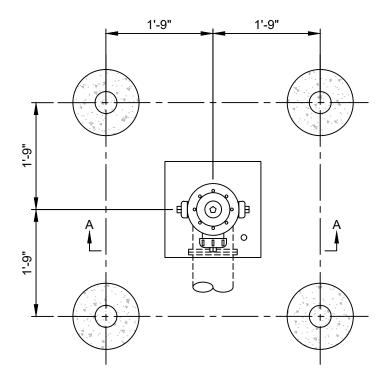




SHEET 1 OF 1



SECTION A-A



NOTES:

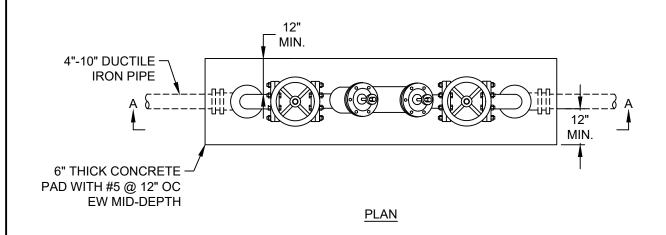
24"X24"X6" CONCRETE PAD SHALL BE FLUSH WITH SURROUNDING PAVEMENT. PROVIDE 1/2-INCH PREMOLDED JOINT FILLER WHERE CONCRETE COLLAR ABUTS PAVED SURFACE.

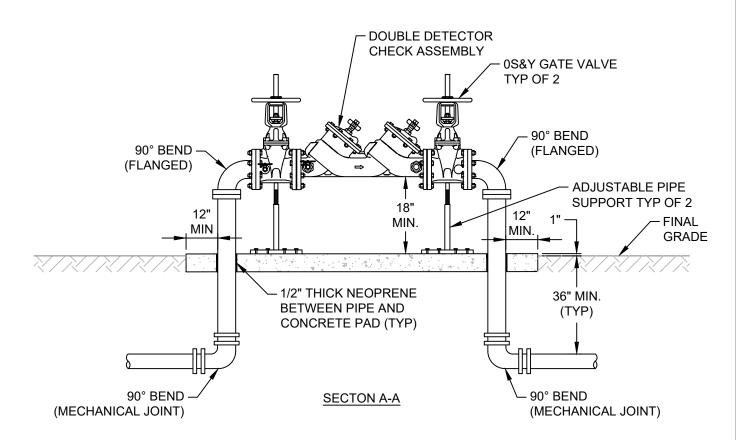
PLAN



FIRE HYDRANT PROTECTION IN **PAVED AREAS**

DETAIL





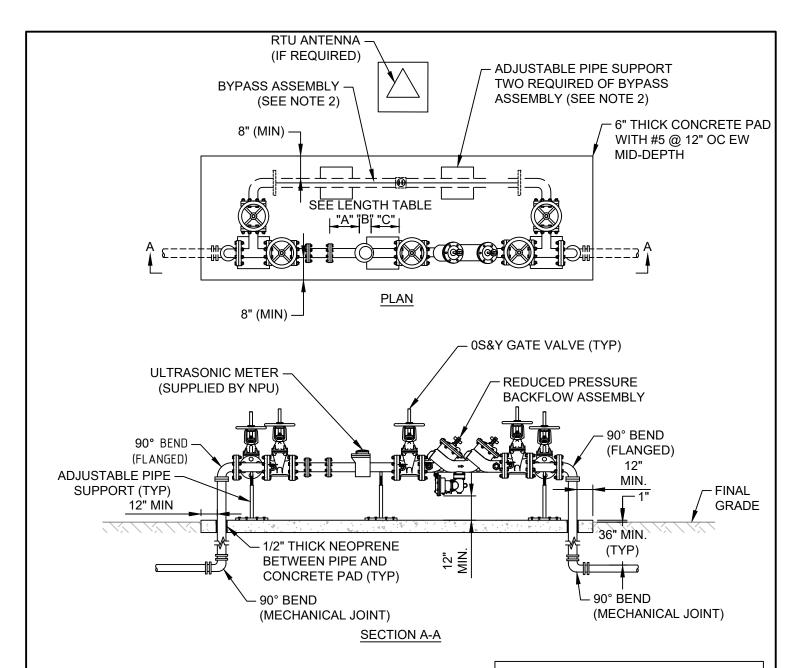
- DOUBLE DETECTOR CHECK ASSEMBLY SHALL MEET UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH REQUIREMENTS AND SHALL BE APPROVED BY NPU.
- 2. BACKFLOW ASSEMBLY MAY BE INCORPORATED IF SHOWN ON PLANS.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- 4. SUBGRADE BELOW CONCRETE PAD SHALL BE COMPACTED TO MINIMUM 98% AS DETERMINED BY FDOT METHOD 1-T 180. SUBGRADE SHALL BE CRUSHED STONE PER NPU SPECIFICATION SECTION 311030. MINIMUM THICKNESS SHALL BE 6".
- ALL ABOVE GROUND PIPE AND FITTINGS SHALL BE FLANGED. BELOW GROUND FITTINGS SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINTS.
- ADJUSTABLE PIPE SUPPORTS SHALL BE ANCHORED TO CONCRETE PAD.



4"-10" BACKFLOW PREVENTION ASSEMBLY FOR FIRE LINE SYSTEMS

PW-04

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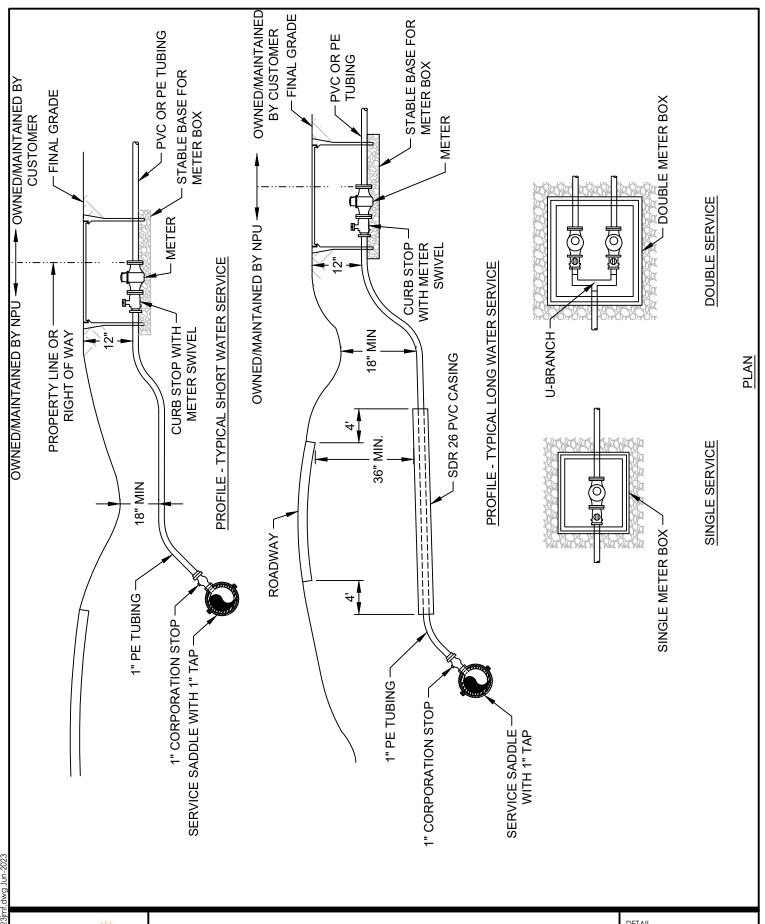


LENGTH TABLE	
LABEL	LENGTH
"A"	MINIMUM 7 PIPE DIAMETERS
"B"	LENGTH PER MANUFACTURER
"C"	MINIMUM 3 PIPE DIAMETERS

- REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL MEET UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH REQUIREMENTS AND SHALL BE APPROVED BY NPU.
- 2. BYPASS ASSEMBLY AND METER SHALL BE INSTALLED BY THE CONTRACTOR IF INDICATED ON THE PLANS.
- 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- SUBGRADE BELOW CONCRETE PAD SHALL BE COMPACTED TO MINIMUM 98% AS DETERMINED BY FDOT METHOD 1-T 180. SUBGRADE MATERIAL SHALL BE CRUSHED STONE PER NPU SPECIFICATION SECTION 311030. MINIMUM THICKNESS SHALL BE 6".
- ALL ABOVE GROUND PIPE AND FITTINGS SHALL BE FLANGED. BELOW GROUND FITTINGS SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINTS.
- 6. ADJUSTABLE PIPE SUPPORTS SHALL BE ANCHORED TO CONCRETE SLAB.

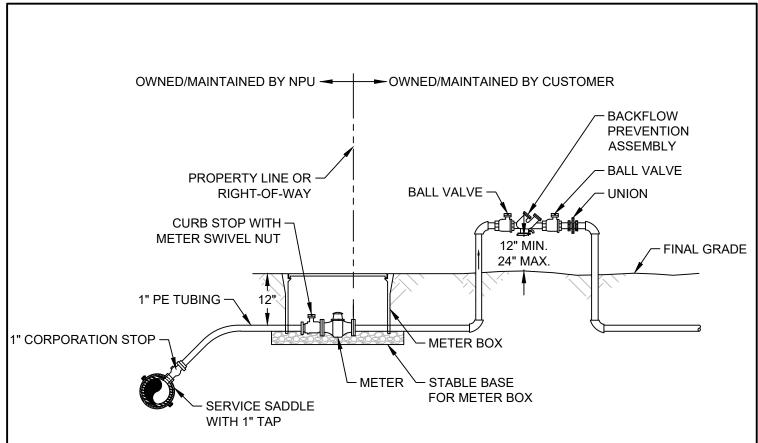


3" AND ABOVE WATER METERS WITH PROVISIONS FOR BYPASS ASSEMBLY

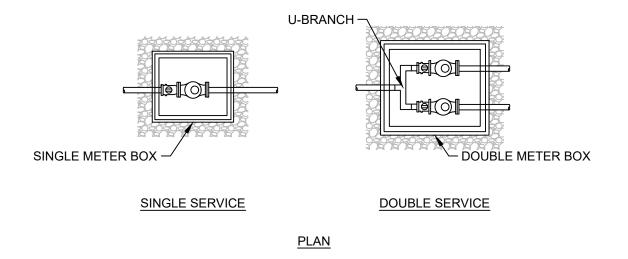




TYPICAL 5/8" - 1" WATER SERVICE





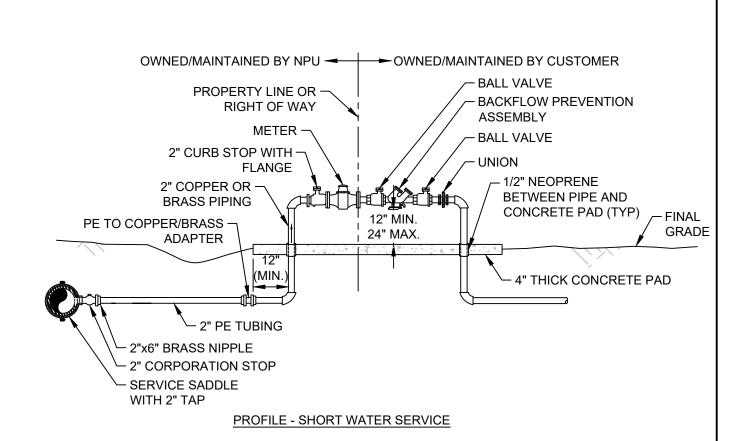


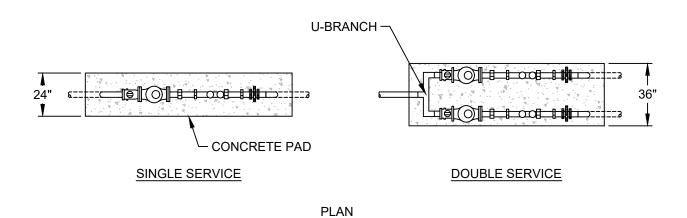
- BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE APPROVED BY NPU AND SHALL BE IN ACCORDANCE WITH THE LATEST CITY CROSS CONNECTION CONTROL PLAN ORDINANCE. THE ASSEMBLY SHALL ALSO BE IN ACCORDANCE WITH AWWA M14 AND SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF METER.
- LONG SERVICE UNDER PAVEMENT SHALL BE INSTALLED WITH A SDR 26 PVC CASING. SEE DETAIL PW-06.



5/8" - 1" WATER METER WITH BACKFLOW PREVENTER







- BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE APPROVED BY NPU AND SHALL BE IN ACCORDANCE WITH THE LATEST CITY CROSS CONNECTION CONTROL PLAN ORDINANCE. THE ASSEMBLY SHALL ALSO BE IN ACCORDANCE WITH AWWA M14 AND SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF METER.
- 2. LONG SERVICE UNDER PAVEMENT SHALL BE PIPING INSTALLED WITH A SDR 26 PVC CASING. SEE DETAIL PW-06.

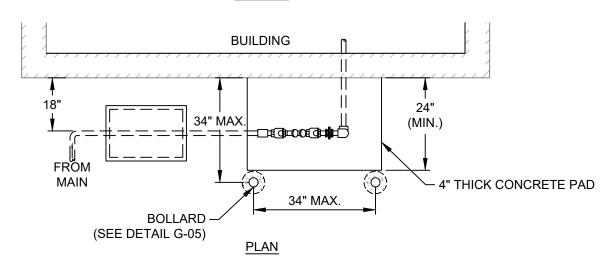


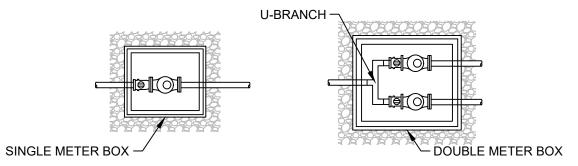
1 1/2" - 2" WATER METER WITH BACKFLOW PREVENTER



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SINGLE SERVICE

DOUBLE SERVICE

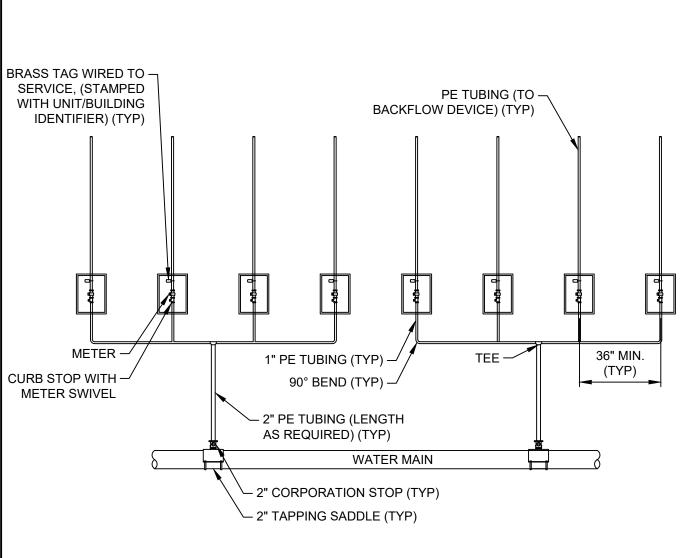
NOTES:

PLAN

- . METER SHALL BE LOCATED WITHIN RIGHT OF WAY AT THE PROPERTY LINE OR WITHIN A UTILITY EASEMENT.
- BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE APPROVED BY NPU AND SHALL BE IN ACCORDANCE WITH THE LATEST CITY CROSS CONNECTION CONTROL PLAN ORDINANCE. THE ASSEMBLY SHALL ALSO BE IN ACCORDANCE WITH AWWA M14 AND SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF METER.



5/8" - 1" BUILDING AREA BELOW GROUND WATER METER INSTALLATION



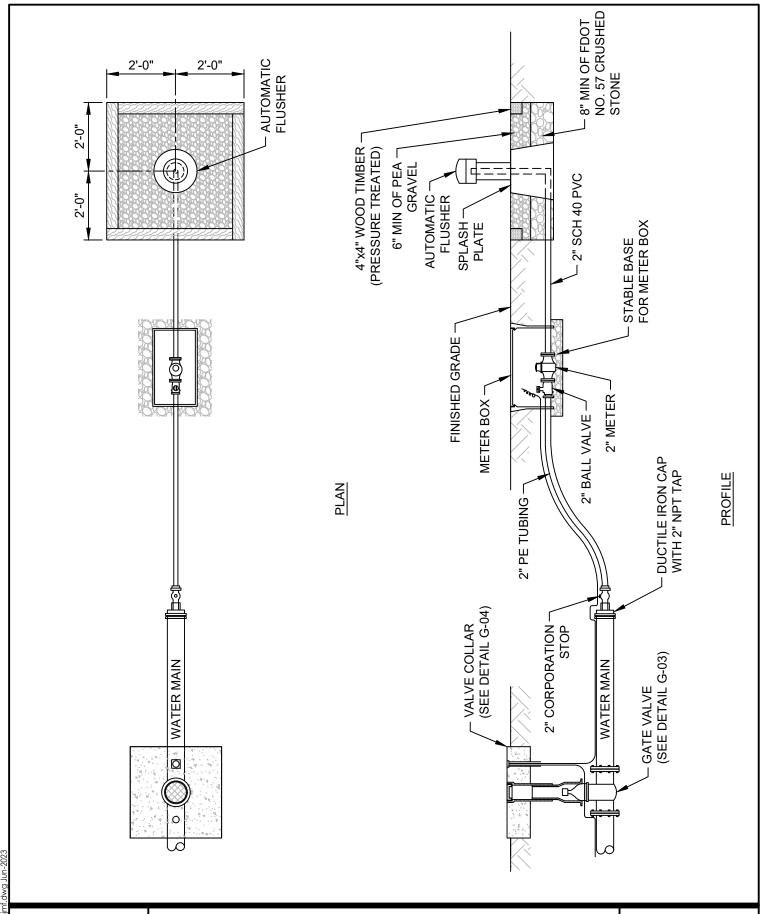
PLAN

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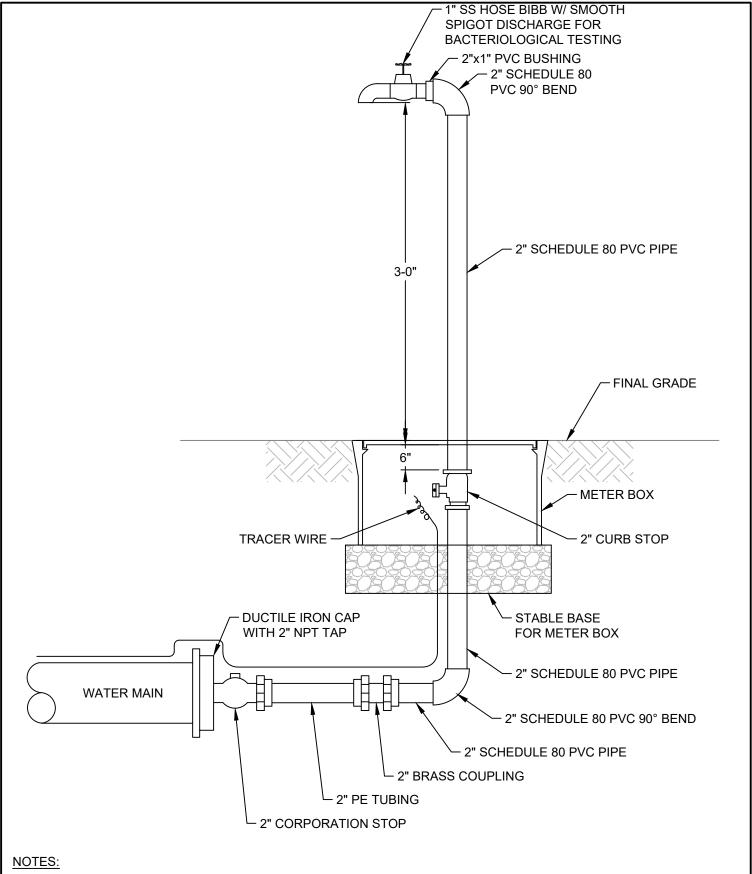
- 1. CONNECTIONS TO NEW AND EXISTING WATER MAINS SHALL BE MADE WITH A TEE AND TAPPING SADDLE.
- 2. PIPING SHALL BE SIZED BY THE ENGINEER BASED ON THE NUMBER OF METERS AND REQUIRED FLOWS. THE MINIMUM PIPE SIZE ALLOWED IS 4" (NOMINAL).
- 3. TEES AND 90 DEGREE BENDS SHALL BE COPPER TUBE SIZE (CTS) BRASS COMPRESSION FITTINGS.
- NO MORE THAN FOUR METERS MAY BE CONNECTED TO A SINGLE HEADER. PROVIDE ADDITIONAL HEADERS
 AS NECESSARY.
- A SINGLE ROW METER BANK IS TO BE INSTALLED WITH METERS AT THE RIGHT-OF-WAY.



METER BANK FOR 5/8" - 1"
COMMERCIAL WATER METERS



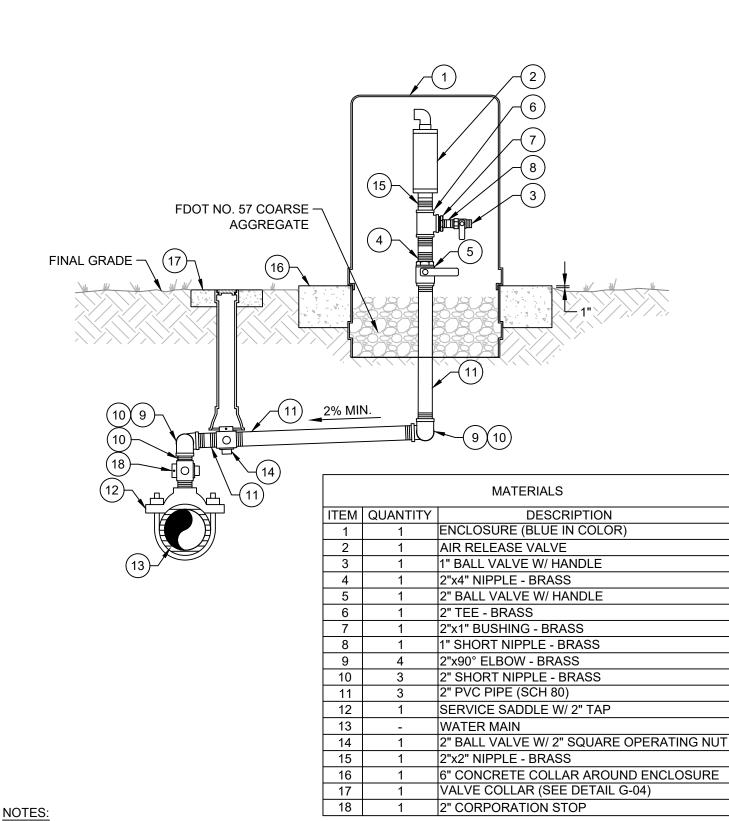
AUTOMATIC FLUSHING ASSEMBLY



1. WATER MAIN SHALL BE RESTRAINED PER DETAIL G-02.



TEMPORARY BLOW OFF ASSEMBLY FOR DEAD END WATER MAIN



- . LOCATION OF AIR RELEASE VALVE ENCLOSURE SHALL BE AS CLOSE TO THE EDGE OF RIGHT-OF-WAY AS PRACTICAL.
- 2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- STAINLESS STEEL BALL VALVE IS REQUIRED FOR FORCE MAINS.



POTABLE WATER AUTOMATIC
AIR RELEASE VALVE

PW-13

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