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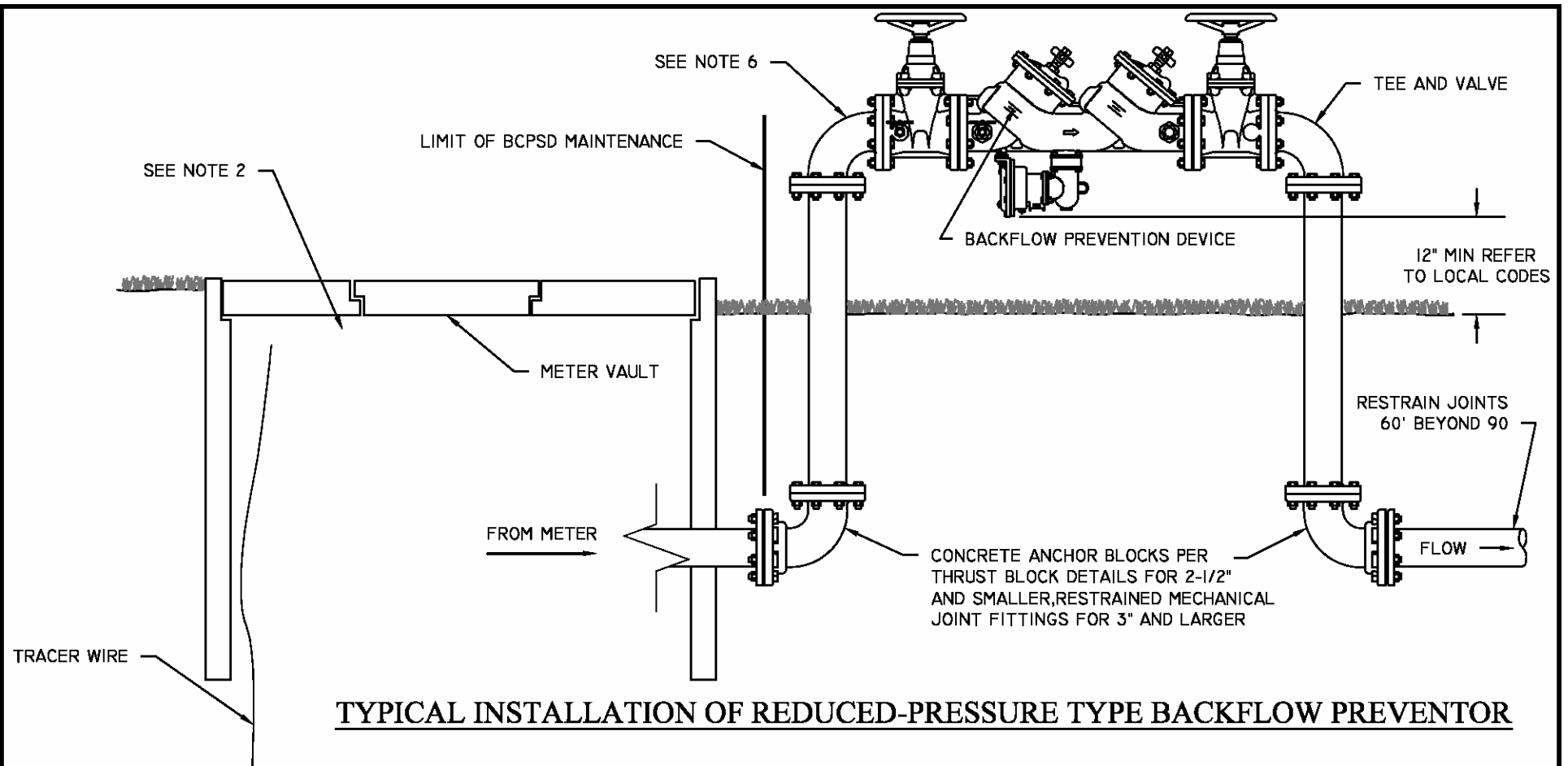
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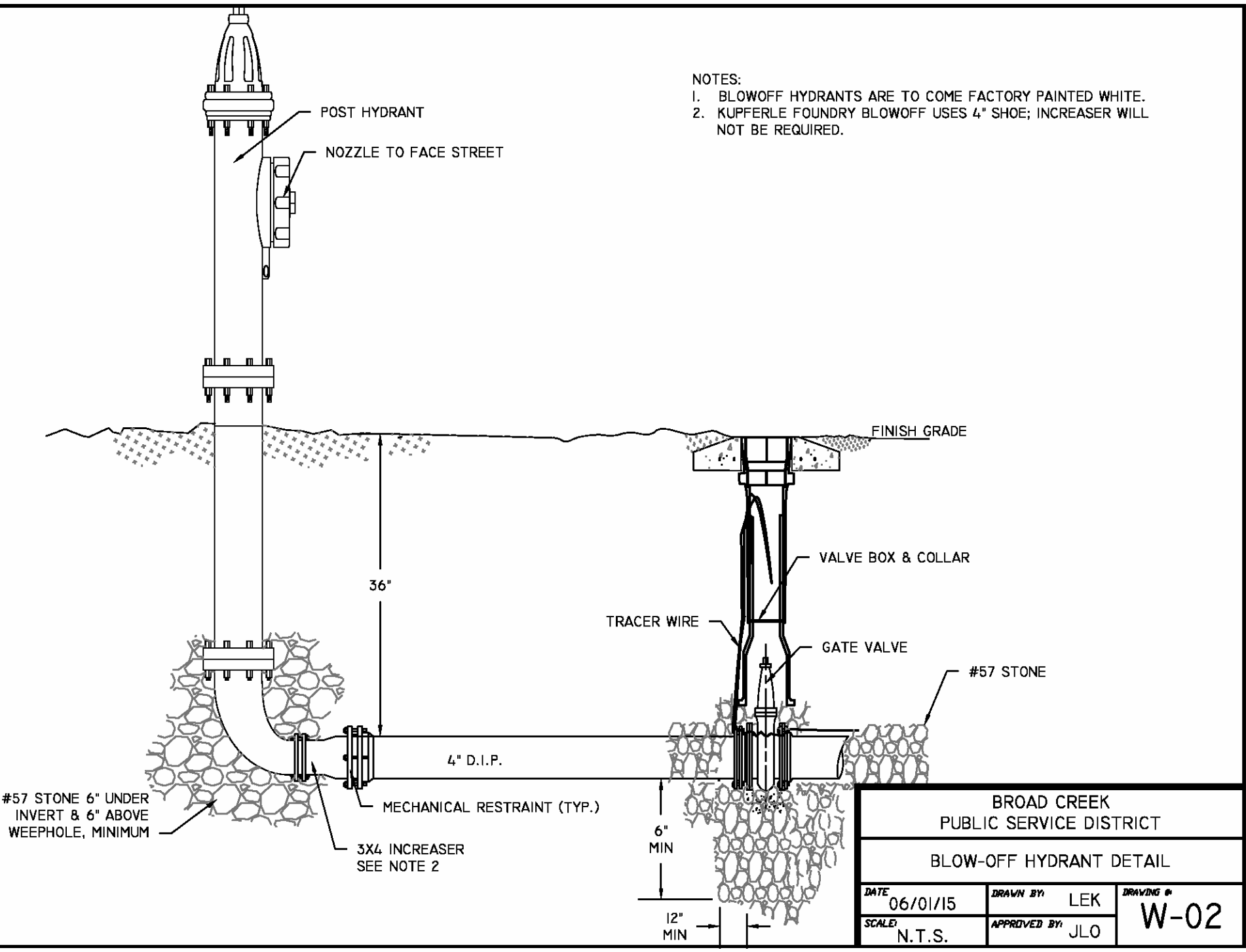
W-10 Water and Sewer-Storm Separation



NOTES:

1. REDUCED-PRESSURE BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED FOR ANY SERVICE WHERE TOXIC MATERIALS ARE USED OR WHERE POSITIVE PROTECTION FOR THE PUBLIC WATER SUPPLY IS REQUIRED. TYPICAL APPLICATIONS INCLUDE: HOSPITALS, MEDICAL & DENTAL LABS, MORTUARIES, INDUSTRIAL PLANTS, DRY CLEANERS, IRRIGATION SYSTEMS, OR AS DETERMINED BY BCPSD.
2. SEE SPECIFIC METER DETAIL FOR MORE INFORMATION.
3. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ADJACENT TO AND ON PROPERTY SIDE OF SIDEWALK WHERE APPLICABLE. WHERE NO SIDEWALKS EXISTS, THE ASSEMBLY SHALL BE INSTALLED BEFORE ANY BRANCH AND AS CLOSE AS POSSIBLE TO THE WATER METER LOCATION. FINAL LOCATION TO BE APPROVED BY BCPSD PRIOR TO INSTALLATION.
4. SCREENING AND LANDSCAPING PLACES AROUND DEVICE SHALL ALLOW FOR ACCESS BY BCPSD PERSONNEL.
5. FREEZE PROTECTION IS THE OWNERS RESPONSIBILITY .
6. PIPING AND FITTINGS THROUGH 2 1/2" SHALL BE SCHD 40 GALVANIZED STEEL. PIPING AND FITTINGS 3" AND LARGER SHALL BE FLANGED DUCTILE IRON.
7. REFER TO SCDHEC APPROVED LIST OF BACKFLOW PREVENTION DEVICES.
8. DUAL CHECK VALVES MAY BE INSTALLED IN UNDERGROUND VAULT (PRIOR APPROVAL BY BCPSD REQUIRED).

BROAD CREEK PUBLIC SERVICE DISTRICT		
BACKFLOW PREVENTION DETAIL		
DATE 06/01/15	DRAWN BY LEK	DRAWING # W-01
SCALE N.T.S.	APPROVED BY JLO	

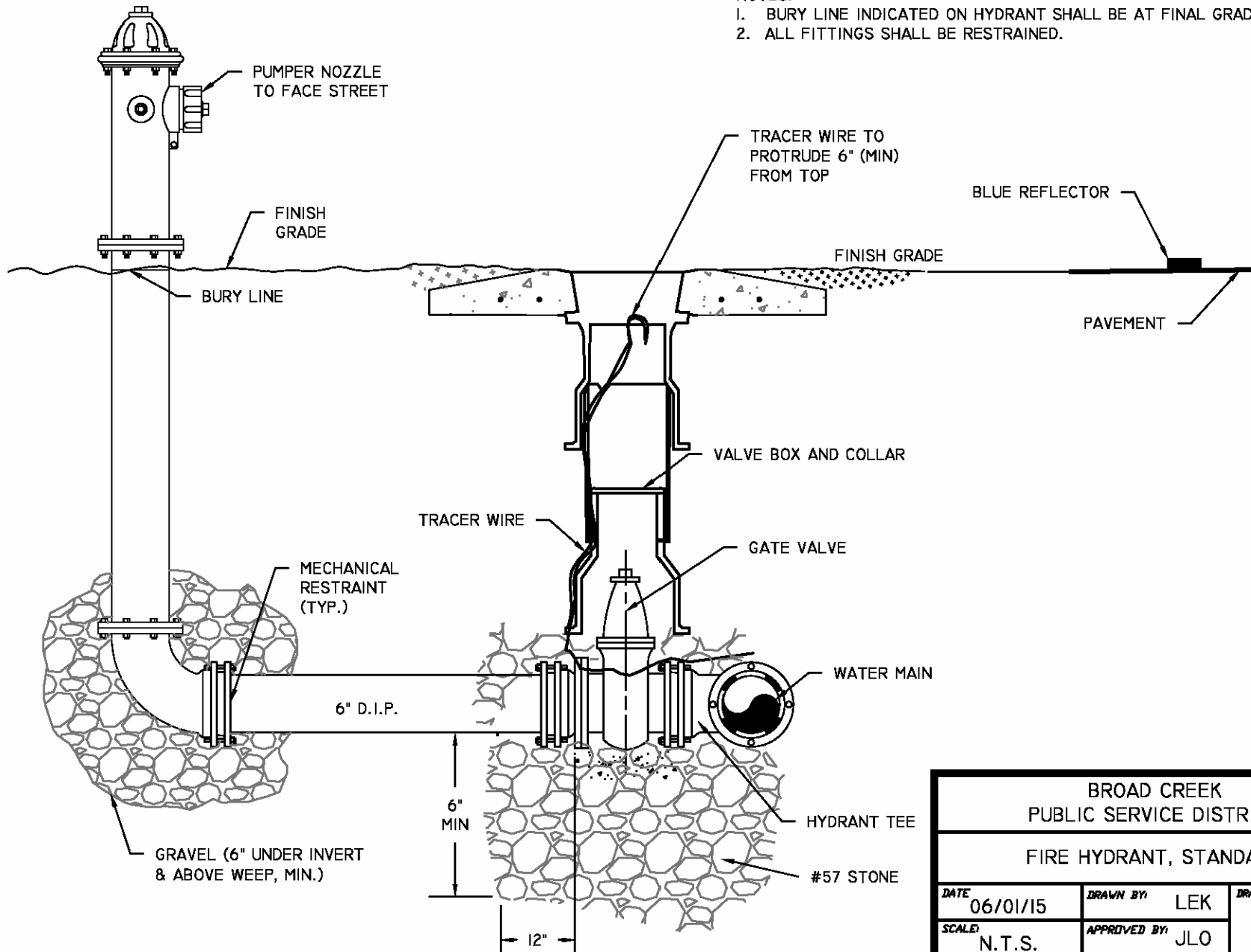


- NOTES:
1. BLOWOFF HYDRANTS ARE TO COME FACTORY PAINTED WHITE.
 2. KUPFERLE FOUNDRY BLOWOFF USES 4" SHOE; INCREASER WILL NOT BE REQUIRED.

BROAD CREEK PUBLIC SERVICE DISTRICT		
BLOW-OFF HYDRANT DETAIL		
DATE 06/01/15	DRAWN BY LEK	DRAWING # W-02
SCALE N.T.S.	APPROVED BY JLO	

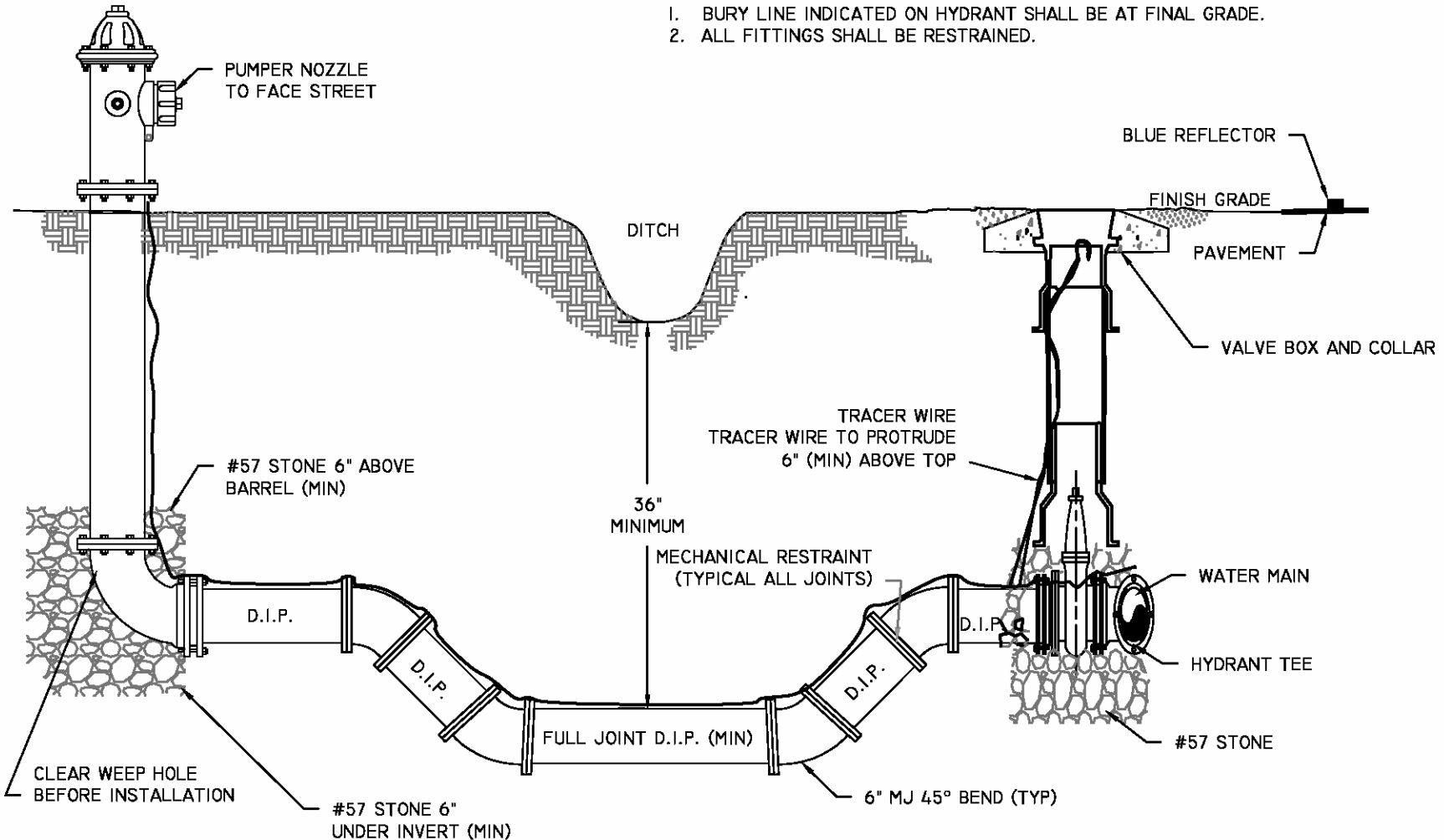
NOTES:

1. BURY LINE INDICATED ON HYDRANT SHALL BE AT FINAL GRADE.
2. ALL FITTINGS SHALL BE RESTRAINED.

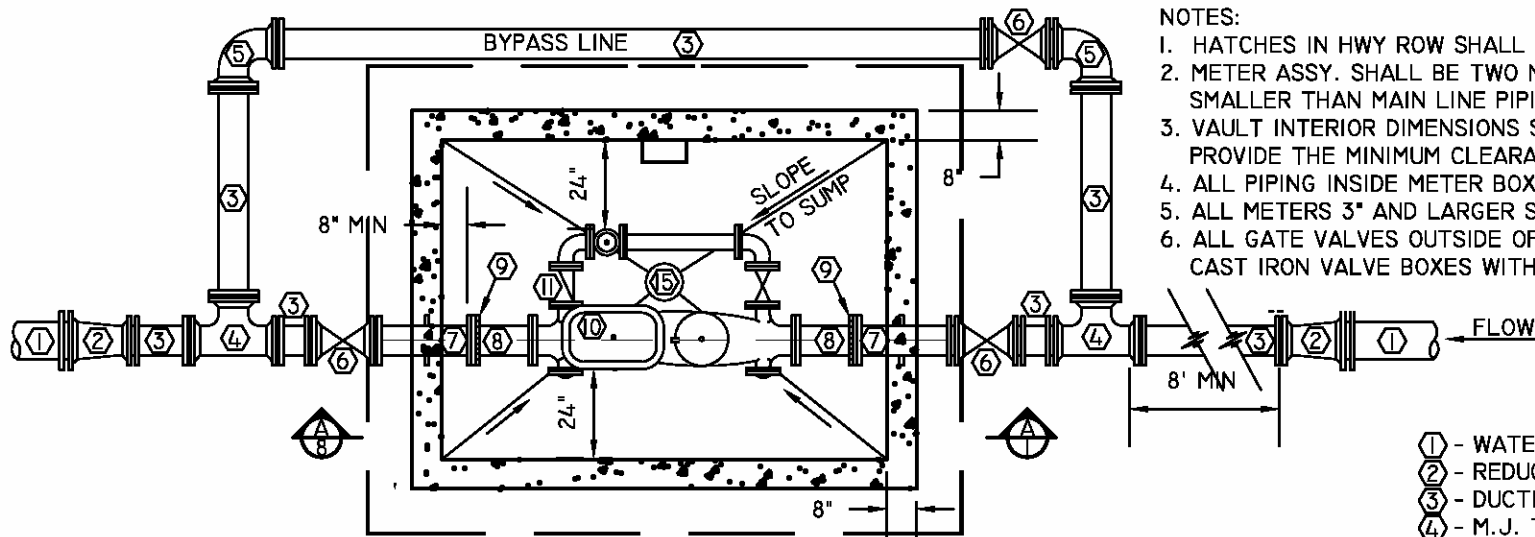


BROAD CREEK PUBLIC SERVICE DISTRICT		
FIRE HYDRANT, STANDARD		
DATE 06/01/15	DRAWN BY LEK	DRAWING # W-03
SCALE N.T.S.	APPROVED BY JLO	

- NOTES:
 1. BURY LINE INDICATED ON HYDRANT SHALL BE AT FINAL GRADE.
 2. ALL FITTINGS SHALL BE RESTRAINED.



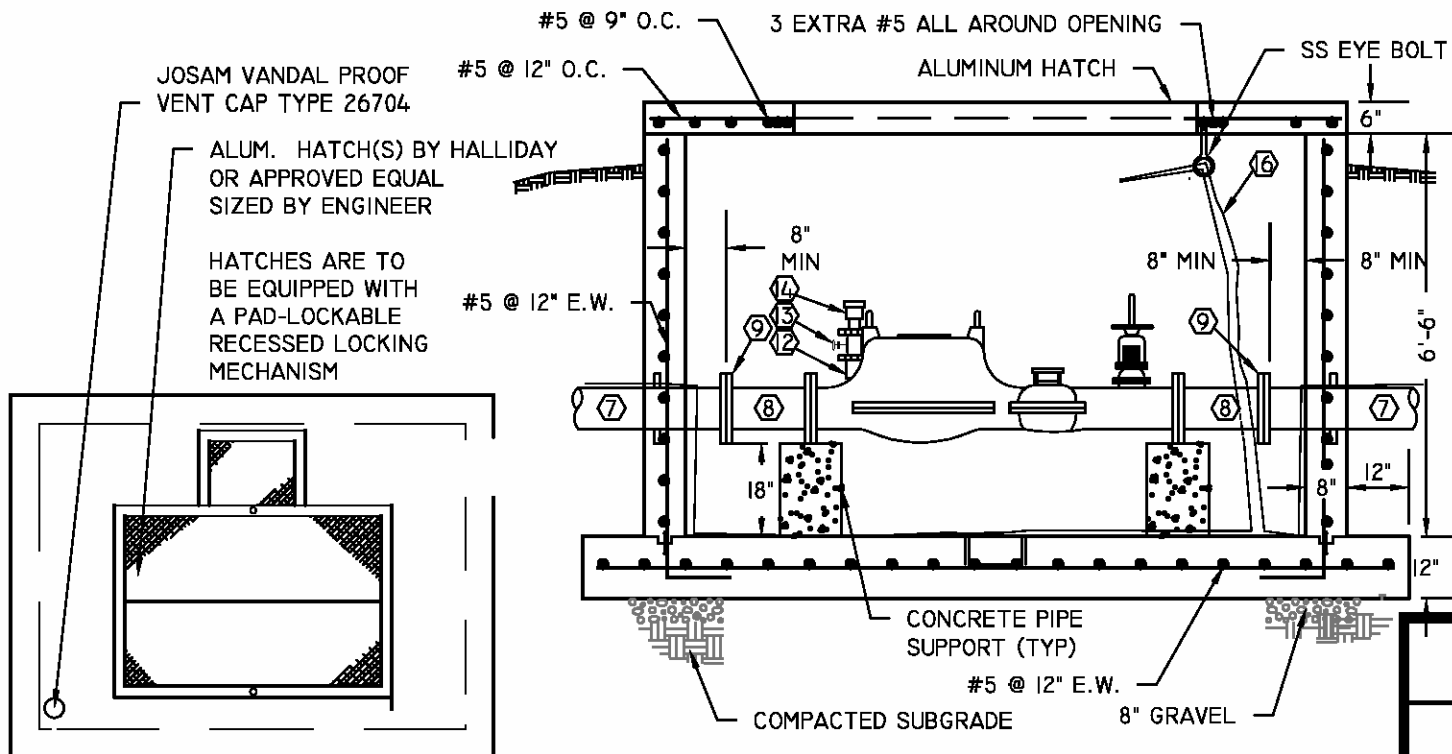
BROAD CREEK PUBLIC SERVICE DISTRICT		
FIRE HYDRANT, UNDER DITCH		
DATE 06/01/15	DRAWN BY LEK	DRAWING # W-04
SCALE N.T.S.	APPROVED BY JLO	



**PLAN VIEW
METER VAULT BELOW TOP SLAB**

- NOTES:
1. HATCHES IN HWY ROW SHALL BE H20 TRAFFIC RATED.
 2. METER ASSY. SHALL BE TWO NOMINAL PIPE SIZES SMALLER THAN MAIN LINE PIPING.
 3. VAULT INTERIOR DIMENSIONS SHALL BE SIZED TO PROVIDE THE MINIMUM CLEARANCE SHOWN.
 4. ALL PIPING INSIDE METER BOX SHALL BE DIP.
 5. ALL METERS 3" AND LARGER SHALL COMPLY.
 6. ALL GATE VALVES OUTSIDE OF METER BOX SHALL BE IN CAST IRON VALVE BOXES WITH CONCRETE COLLARS AT GRADE

- 1 - WATER MAIN
- 2 - REDUCER - M.J. X M.J.
- 3 - DUCTILE IRON PIPE - P.E. X P.E.
- 4 - M.J. TEE
- 5 - 90° BEND - M.J. X M.J.
- 6 - GATE VALVE - M.J. X M.J.
- 7 - WALL PIPE WITH INTEGRAL WATER STOP - FLG. X P.E.
- 8 - SPOOL - FLG. X P.E.
- 9 - FLANGE ADAPTER
- 10 - COMPOUND METER DETECTOR METER WITH COMPOUND BY-PASS AND TEST OUTLETS
- 11 - CHECK VALVE SUPPLIED WITH METER-CONTRACTOR SHALL PROVIDE THE FOLLOWING
- 12 - 3" BRONZE NIPPLE ON THE TEST OUTLET OF THE CHECK VALVE
- 13 - 3" GATE VALVE
- 14 - 3" QUICK CONNECT FEMALE FITTING W/ COVER
- 15 - 12" Ø SUMP
- 16 - TRACER WIRE IS TO LAY ON THE VAULT BOTTOM, PASS UP THROUGH SS EYE BOLT, RAP AROUND EYE BOLT WITH ENOUGH WIRE TO EXTEND BEYOND HATCH TOP 12".



**PLAN VIEW
METER VAULT ABOVE TOP SLAB**

SECTION

**BROAD CREEK
PUBLIC SERVICE DISTRICT**

METER VAULT DETAIL, LARGE

DATE 06/01/15

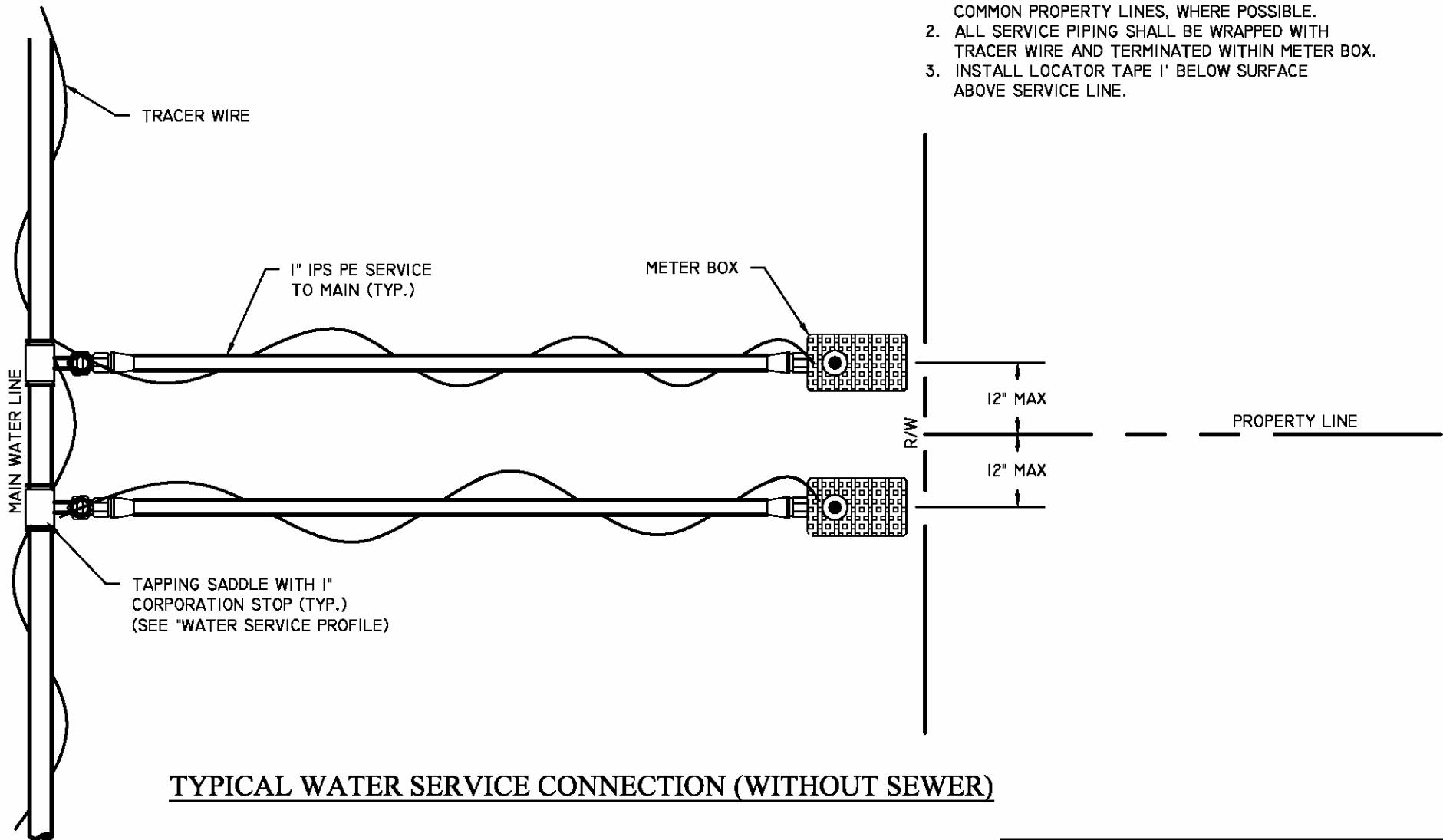
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DRAWING #

SCALE: N.T.S.

APPROVED BY: JLO

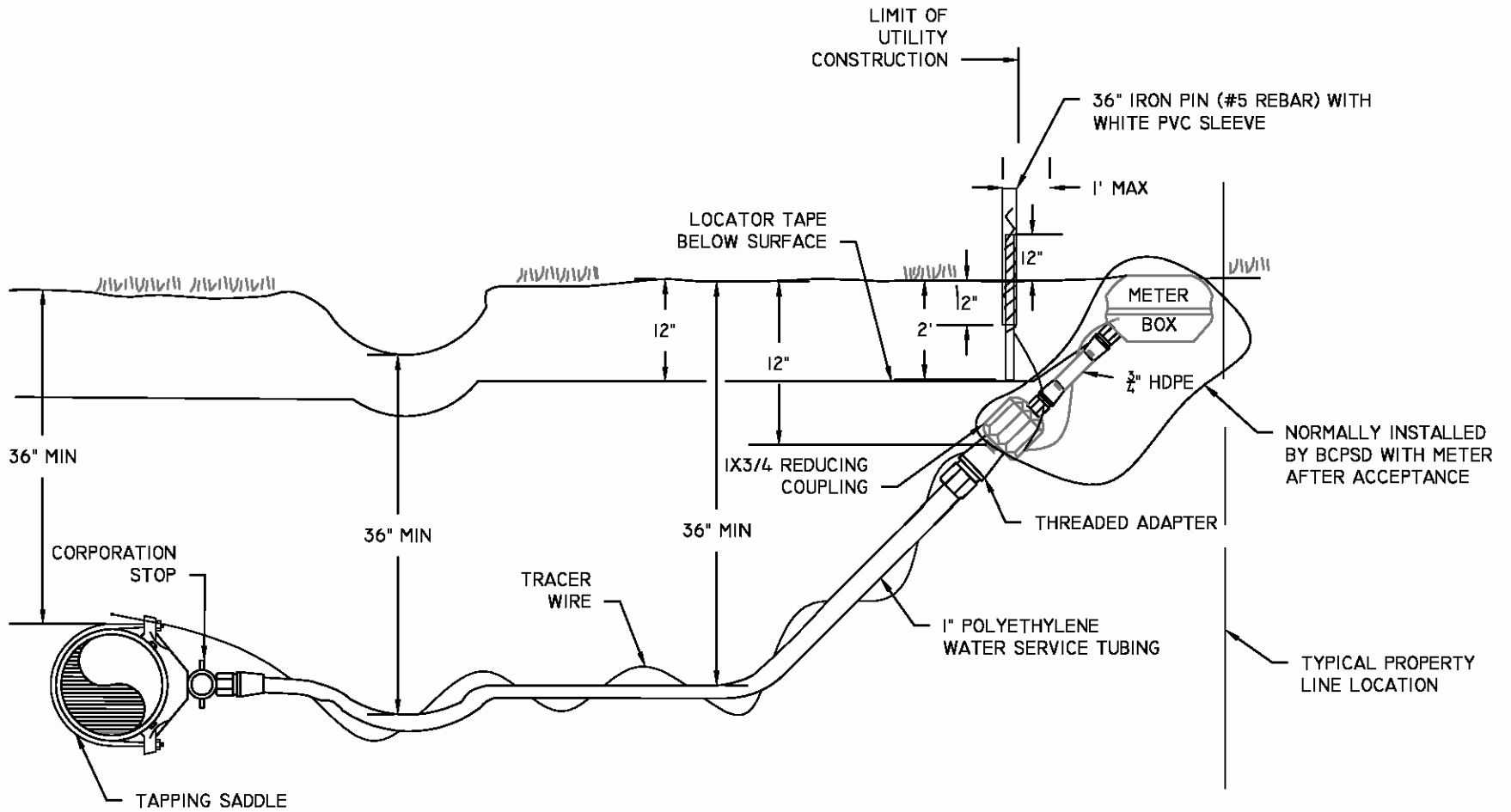
W-05



- NOTES:
1. WATER SERVICES SHALL BE INSTALLED TO COMMON PROPERTY LINES, WHERE POSSIBLE.
 2. ALL SERVICE PIPING SHALL BE WRAPPED WITH TRACER WIRE AND TERMINATED WITHIN METER BOX.
 3. INSTALL LOCATOR TAPE 1' BELOW SURFACE ABOVE SERVICE LINE.

TYPICAL WATER SERVICE CONNECTION (WITHOUT SEWER)

BROAD CREEK PUBLIC SERVICE DISTRICT		
WATER SERVICE PLAN		
DATE 06/01/15	DRAWN BY LEK	DRAWING # W-06
SCALE N.T.S.	APPROVED BY JLO	



BROAD CREEK
PUBLIC SERVICE DISTRICT

WATER SERVICE PROFILE

DATE 06/01/15

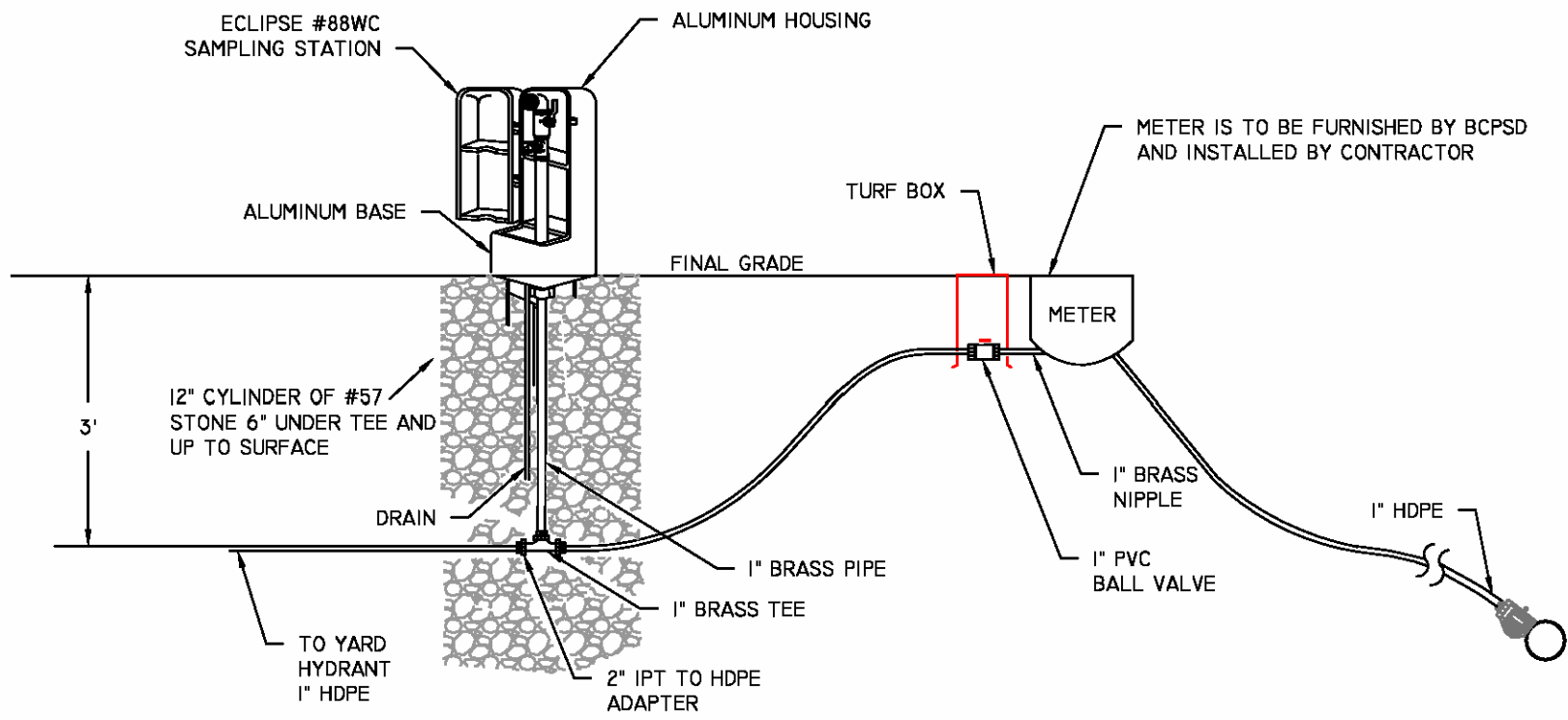
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SCALE: N.T.S.

APPROVED BY JLO

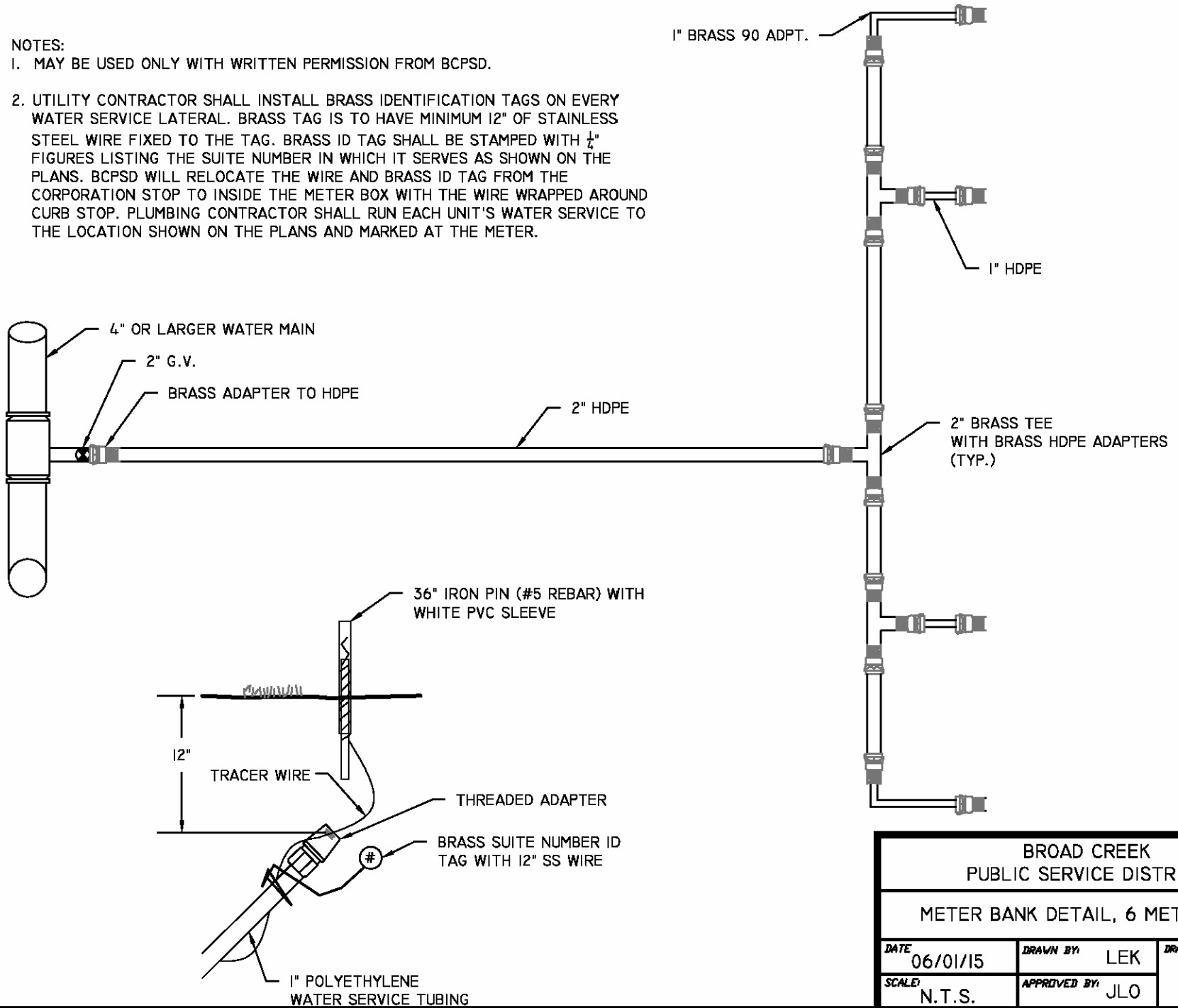
W-7



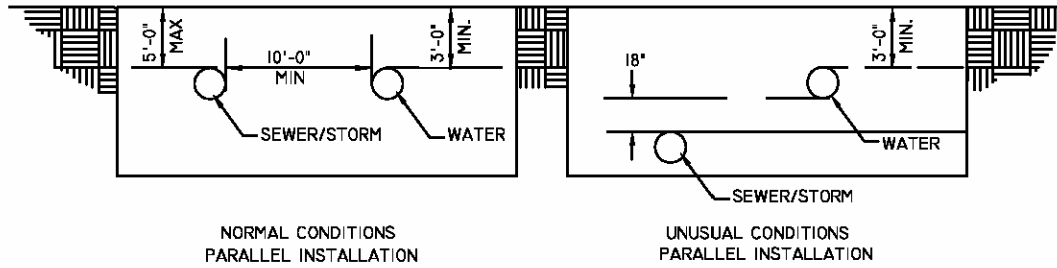
BROAD CREEK PUBLIC SERVICE DISTRICT		
WATER SAMPLING STATION		
DATE 06/01/15	DRAWN BY LEK	DRAWING # W-8
SCALE N.T.S.	APPROVED BY JLO	

NOTES:

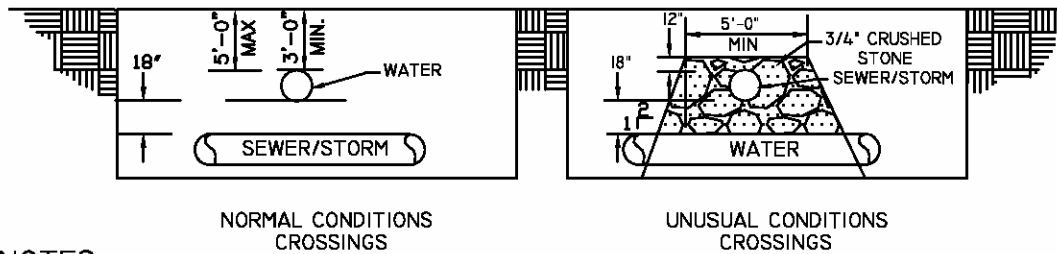
1. MAY BE USED ONLY WITH WRITTEN PERMISSION FROM BCPSD.
2. UTILITY CONTRACTOR SHALL INSTALL BRASS IDENTIFICATION TAGS ON EVERY WATER SERVICE LATERAL. BRASS TAG IS TO HAVE MINIMUM 12" OF STAINLESS STEEL WIRE FIXED TO THE TAG. BRASS ID TAG SHALL BE STAMPED WITH $\frac{1}{4}$ " FIGURES LISTING THE SUITE NUMBER IN WHICH IT SERVES AS SHOWN ON THE PLANS. BCPSD WILL RELOCATE THE WIRE AND BRASS ID TAG FROM THE CORPORATION STOP TO INSIDE THE METER BOX WITH THE WIRE WRAPPED AROUND CURB STOP. PLUMBING CONTRACTOR SHALL RUN EACH UNIT'S WATER SERVICE TO THE LOCATION SHOWN ON THE PLANS AND MARKED AT THE METER.



BROAD CREEK PUBLIC SERVICE DISTRICT		
METER BANK DETAIL, 6 METER MAX		
DATE 06/01/15	DRAWN BY LEK	DRAWING # W-9
SCALE N.T.S.	APPROVED BY JLO	



TRENCHES FOR WATER LINES SHALL FOLLOW THE CONTOUR OF THE GROUND SO AS TO PROVIDE A MIN. COVER OF 36" AND A MAX. COVER 60", UNLESS OTHERWISE NOTED.



NOTES:

THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL, STATE PRIMARY DRINKING WATER REGULATIONS: R64-58 AS FOLLOWS:

A. PARALLEL INSTALLATION:

NORMAL CONDITIONS:
WATER MAINS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

UNUSUAL CONDITIONS
IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, BCPSD MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE WATER MAIN CLOSER TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE TOP OF THE SEWER.

B. CROSSINGS:

NORMAL CONDITIONS:
WATER MAIN CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHETHER THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER LINE. WHENEVER POSSIBLE, THE WATER MAIN SHALL BE LOCATED ABOVE THE SEWER LINE. WHERE A NEW WATER MAIN CROSSES A NEW SEWER LINE, A FULL LENGTH OF PIPE SHALL BE USED FOR BOTH THE WATER MAIN AND SEWER LINE AND THE CROSSING SHALL BE ARRANGED SO THE JOINTS OF EACH LINE WILL BE AS FAR AS POSSIBLE FROM THE POINT OF CROSSING AND EACH OTHER. WHERE A NEW WATER MAIN CROSSES AN EXISTING SEWER LINE, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER LINE AS POSSIBLE.

UNUSUAL CONDITIONS
WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER LINE TO PREVENT DAMAGE TO THE WATER MAIN. WATER MAIN SHALL BE DUCTILE IRON PIPE WHEN INSTALLED UNDER A SEWER.

BROAD CREEK PUBLIC SERVICE DISTRICT		
WATER AND SEWER/STORM SEPARATION		
DATE 06/01/15	DRAWN BY AP	DRAWING # W-10
SCALE N.T.S.	APPROVED BY JLO	