

CITY OF HOSCHTON
WATER & SEWER DEPARTMENTS
June 2018



STANDARD DETAILS

FOR CONSTRUCTION OF
WATER & SEWER MAINS

79 CITY SQUARE
HOSCHTON, GEORGIA

30548

PH: 706-654-3034

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS
STANDARD CONSTRUCTION DETAILS
INDEX

SEPTEMBER 2018

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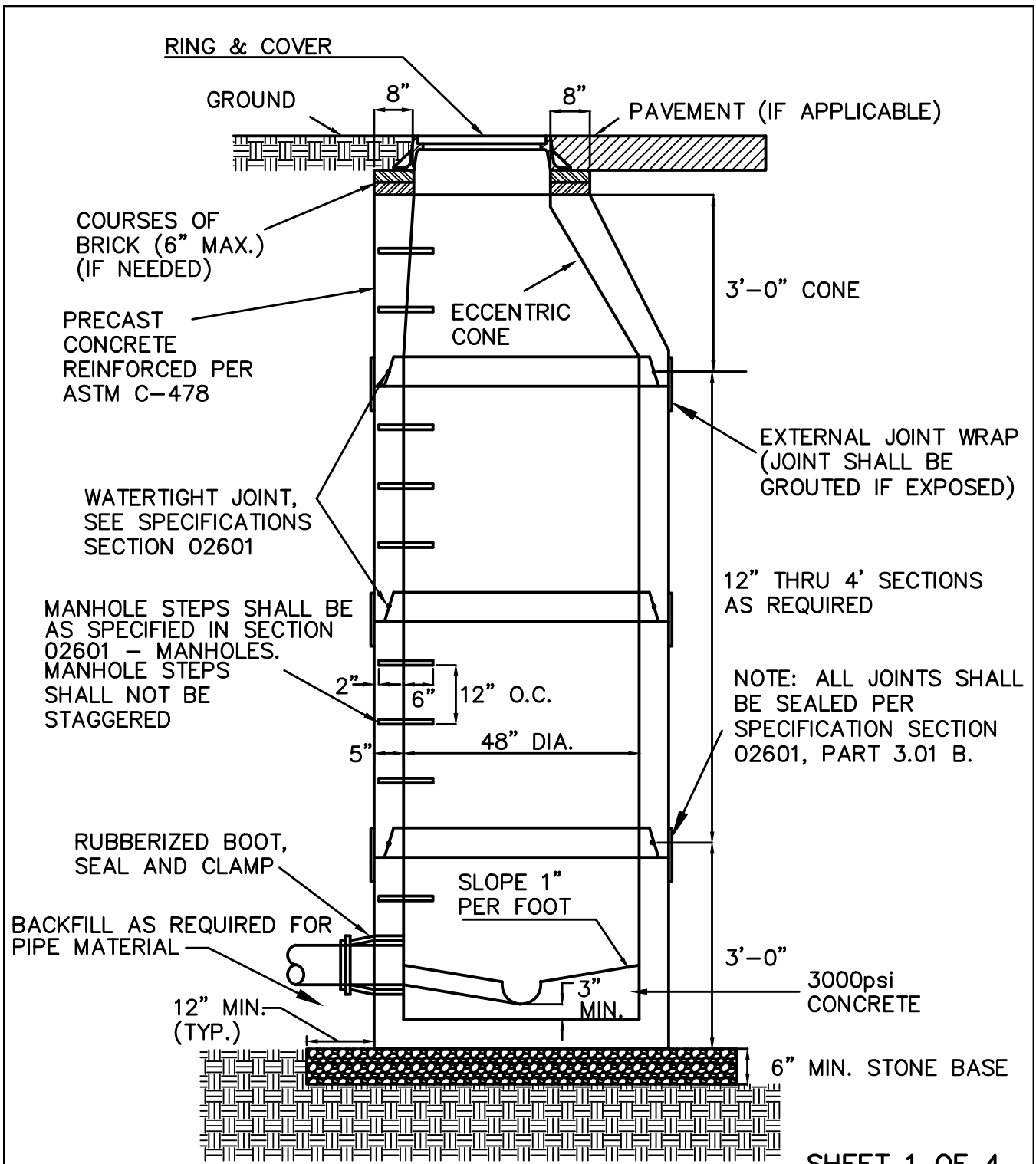
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SEPTEMBER 2018

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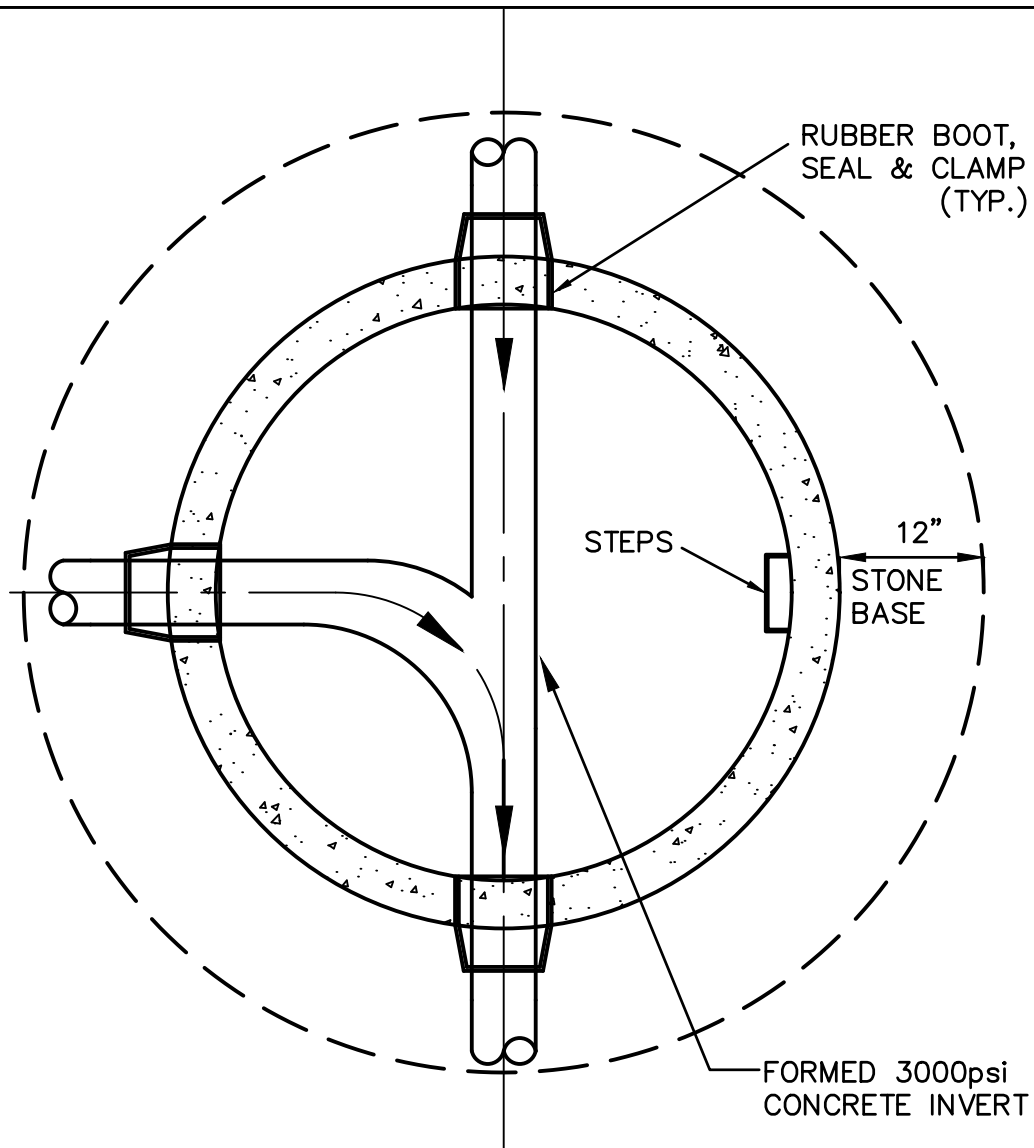


SHEET 1 OF 4

NOTE:
 DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM VACUUM TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION)

CITY OF HOSCHTON WATER SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE STANDARD MANHOLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		FILE NO <input type="checkbox"/> 18030 S-1 d <input type="checkbox"/>	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>		
DETAIL NO <input type="checkbox"/> S-1					



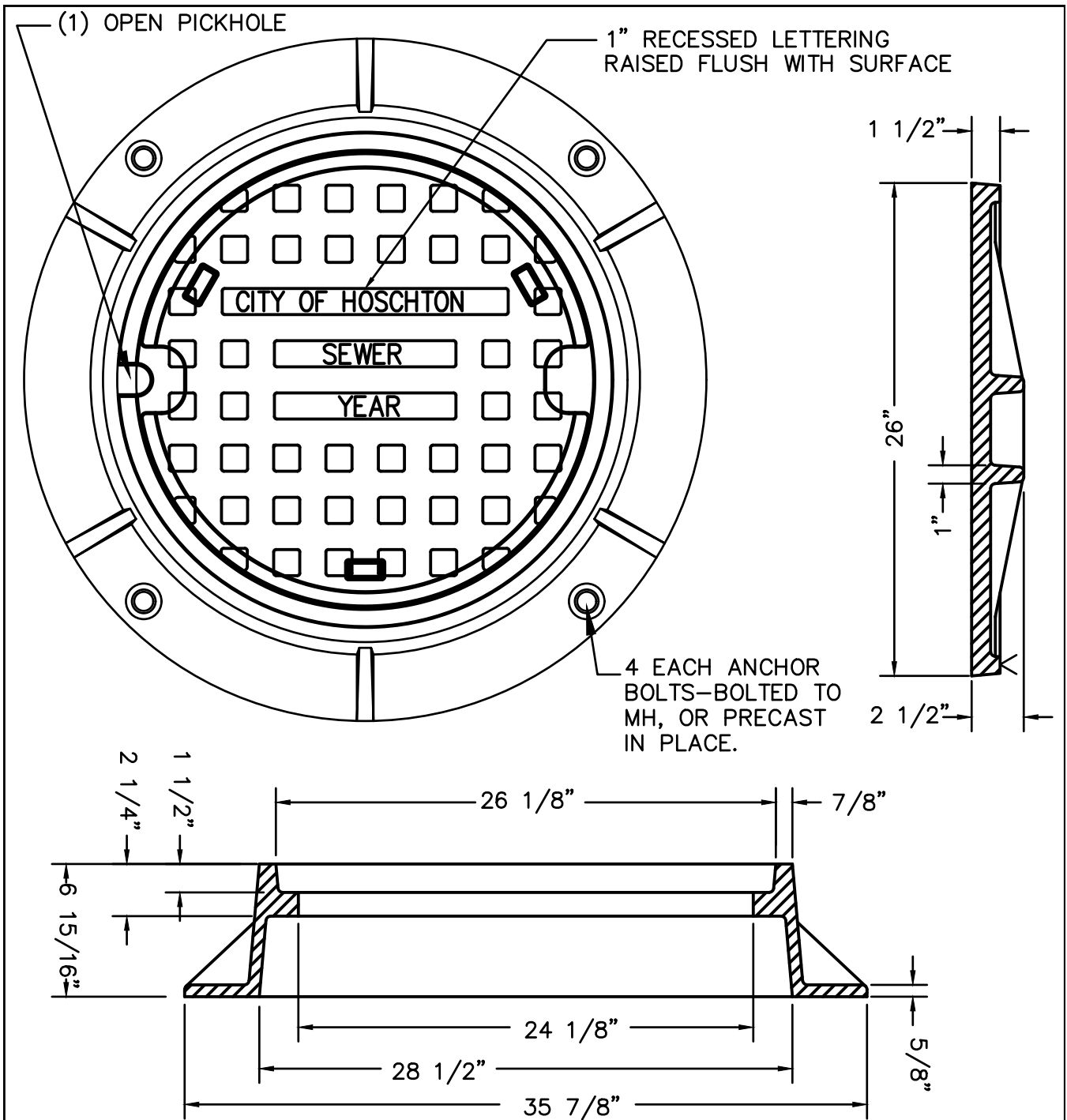
PLAN VIEW OF MANHOLE

NOTES:

1. A MINIMUM OF 0.2' (2/10') FALL ACROSS MANHOLE INVERT FROM INLET TO OUTLET IS REQUIRED.
2. TABLES ARE TO BE GENTLY SLOPED AND TROWELED FROM MANHOLE WALL TO INVERT WALL HEIGHT AND CONSTRUCTED OF AGGREGATE-MIX CEMENT WITH SMOOTH VENEER FINISH.
3. DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM VACUUM TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION).

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE MANHOLE INVERT	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
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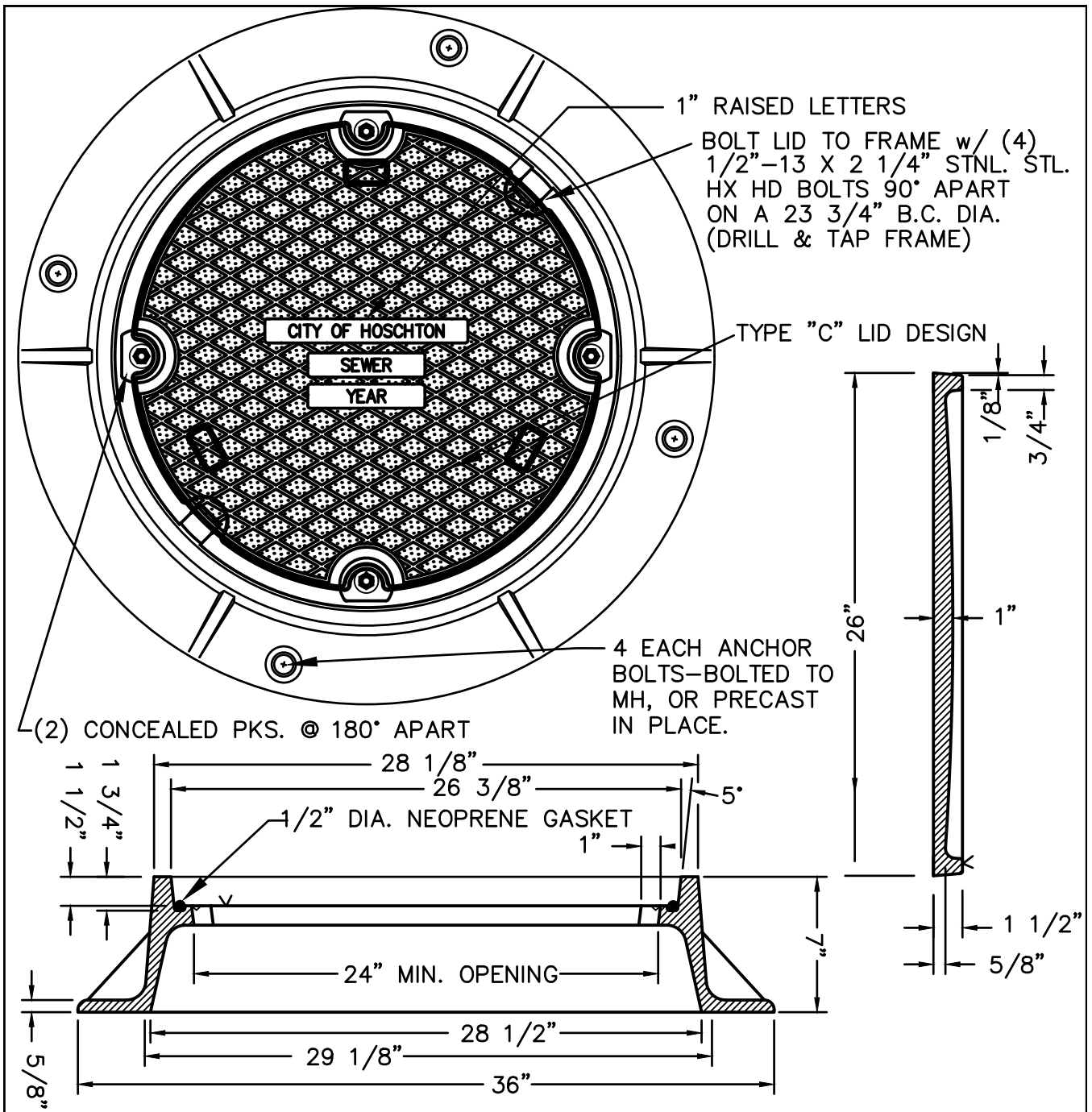
MATERIAL: CAST GRAY IRON ASTM A48, CLASS 35B
 FINISH UNPAINTED
 WEIGHT 276LBS. PER SET
 PER NEENAH FOUNDRY R-1642 WITH T-GASKET
 OR APPROVED EQUIVALENT BY CITY

SHEET 3 OF 4

COVER SHALL BE STAMPED WITH APPROPRIATE DESIGNATION

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	ON-ROAD MANHOLE COVER	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
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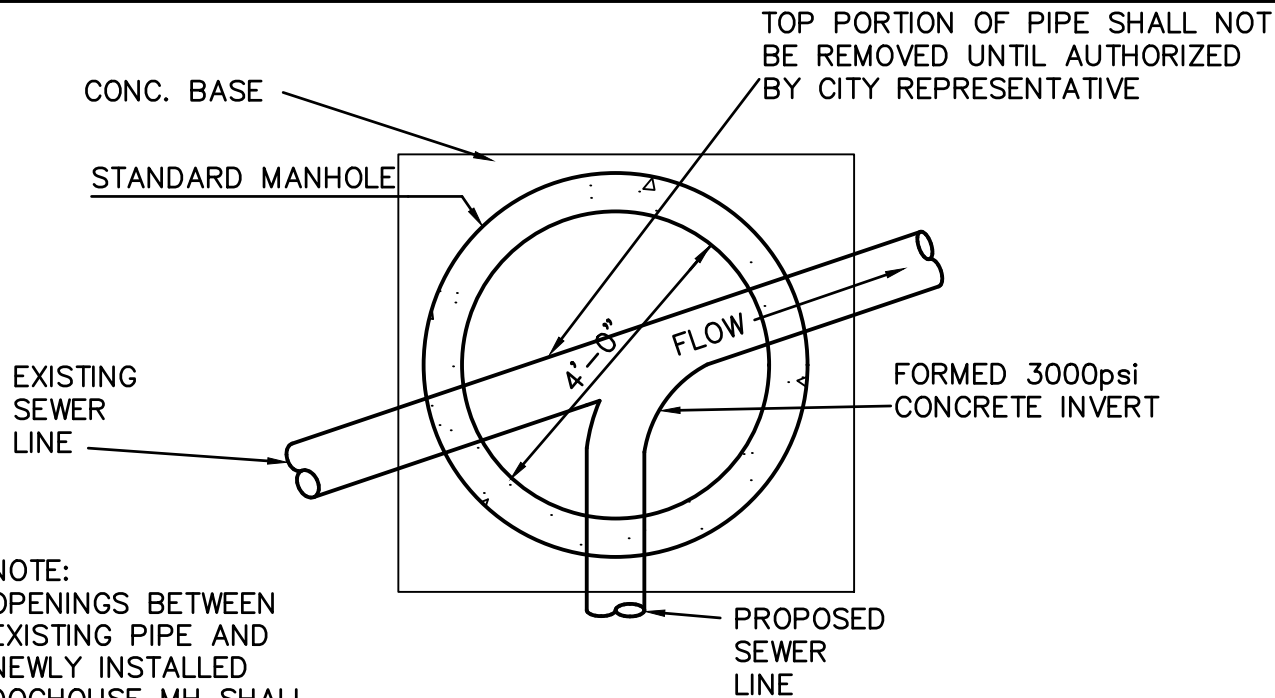
MATERIAL: CAST GRAY IRON ASTM A48, CLASS 35B
 FINISH UNPAINTED
 WEIGHT 342 LBS. PER SET
 PER NEENAH FOUNDRY R-1916-F WITH T-GASKET
 OR APPROVED EQUIVALENT BY CITY

SHEET 4 OF 4

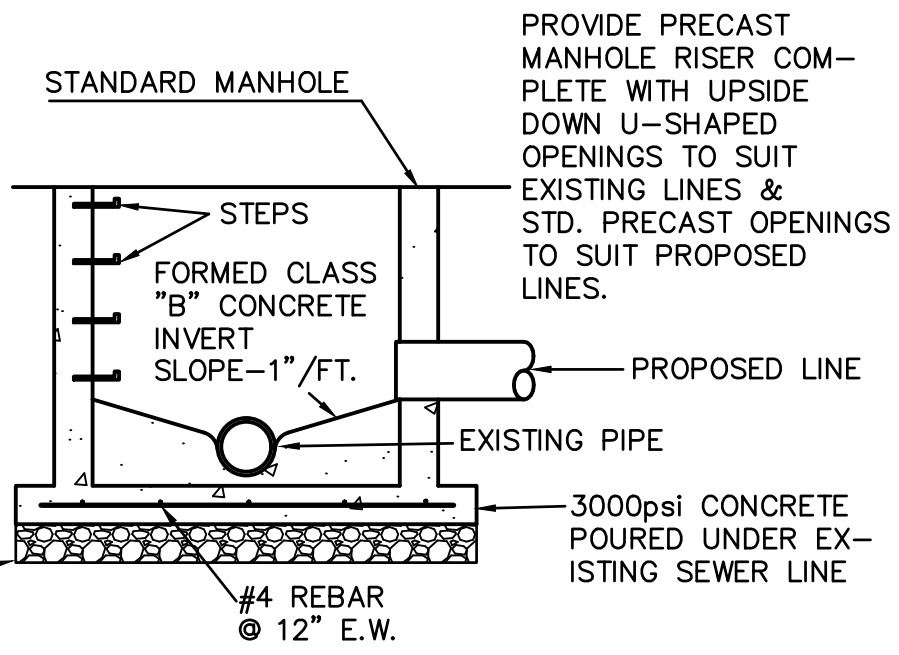
COVER SHALL BE STAMPED WITH APPROPRIATE DESIGNATION

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE OFF-ROAD MANHOLE COVER	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> S-4	FILE N <input type="checkbox"/> 18033-S-4.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T <input type="checkbox"/> S <input type="checkbox"/>	



NOTE:
 OPENINGS BETWEEN
 EXISTING PIPE AND
 NEWLY INSTALLED
 DOGHOUSE MH SHALL
 BE SEALED WITH
 NON-SHRINK HYDRAULIC
 CEMENT.



NOTE:
 TABLES ARE TO BE
 GENTLY SLOPED AND
 TROWELED SMOOTH
 FROM MANHOLE WALL
 TO INVERT WALL HEIGHT
 AND CONSTRUCTED OF
 AGGREGATE-MIX CEMENT
 WITH SMOOTH VENEER
 FINISH.

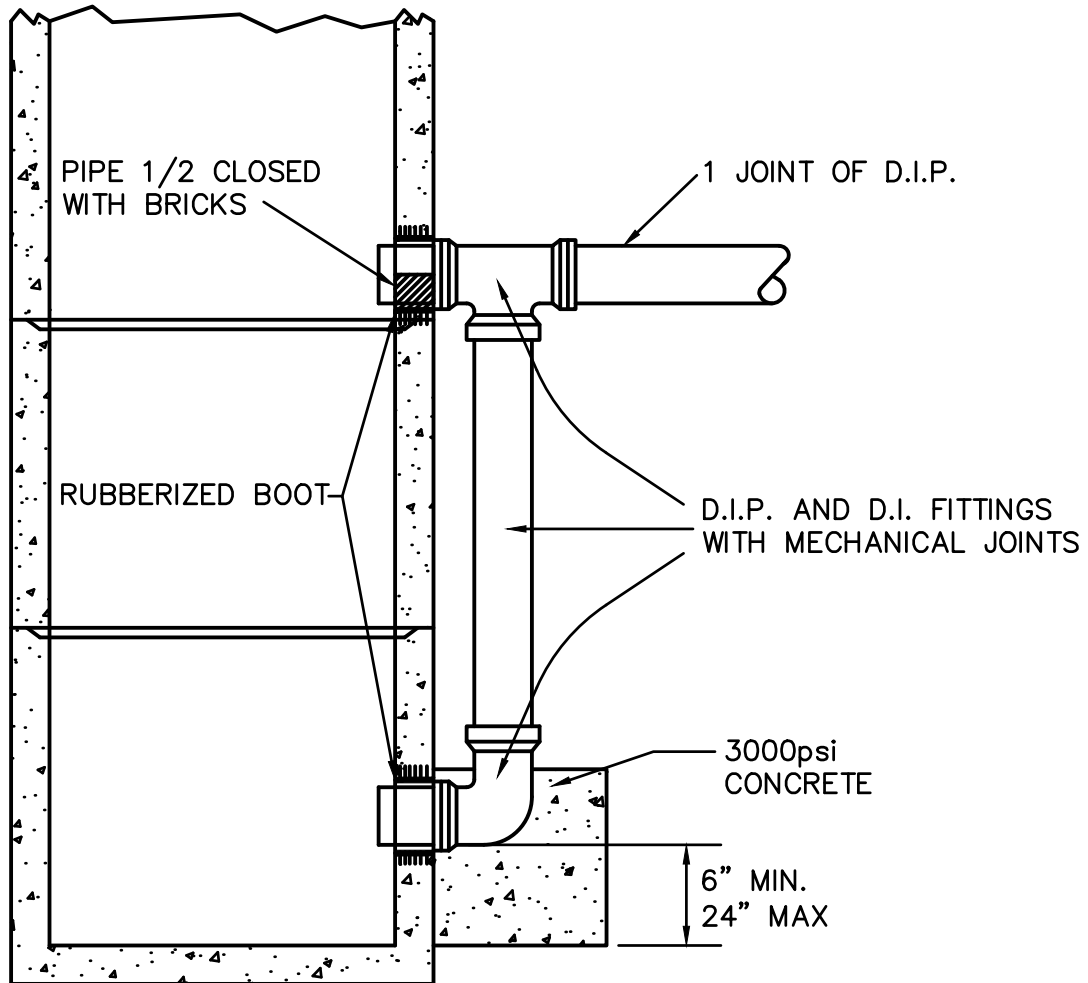
PROVIDE PRECAST
 MANHOLE RISER COM-
 PLETE WITH UPSIDE
 DOWN U-SHAPED
 OPENINGS TO SUIT
 EXISTING LINES &
 STD. PRECAST OPENINGS
 TO SUIT PROPOSED
 LINES.

NEW PIPE SHALL BE LOCATED AT THE
 TOP OF INVERT TABLE.

NOTE:
 DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM VACUUM TESTS IN
 ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE CITY OF
 HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION)

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE DOGHOUSE MANHOLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
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	DETAIL N <input type="checkbox"/> S-5				



NOTE

MANHOLE SHALL BE INSTALLED LIKE STANDARD PRECAST MANHOLE, EXCEPT FOR DROP.

AN OUTSIDE DROP MANHOLE SHOULD BE PROVIDED FOR A SEWER ENTERING A MANHOLE AT AN ELEVATION OF 24 INCHES OR MORE ABOVE THE MANHOLE INVERT. WHEN THE DIFFERENCE IN ELEVATION BETWEEN INCOMING SEWER AND MANHOLE INVERT IS LESS THAN 24 INCHES THE INVERT SHOULD FILLETED TO PREVENT SOLIDS DEPOSITION.

MAXIMUM ALLOWABLE DROP FOR LOWER INLET ON OUTSIDE DROP MANHOLES SHALL BE 24 INCHES.

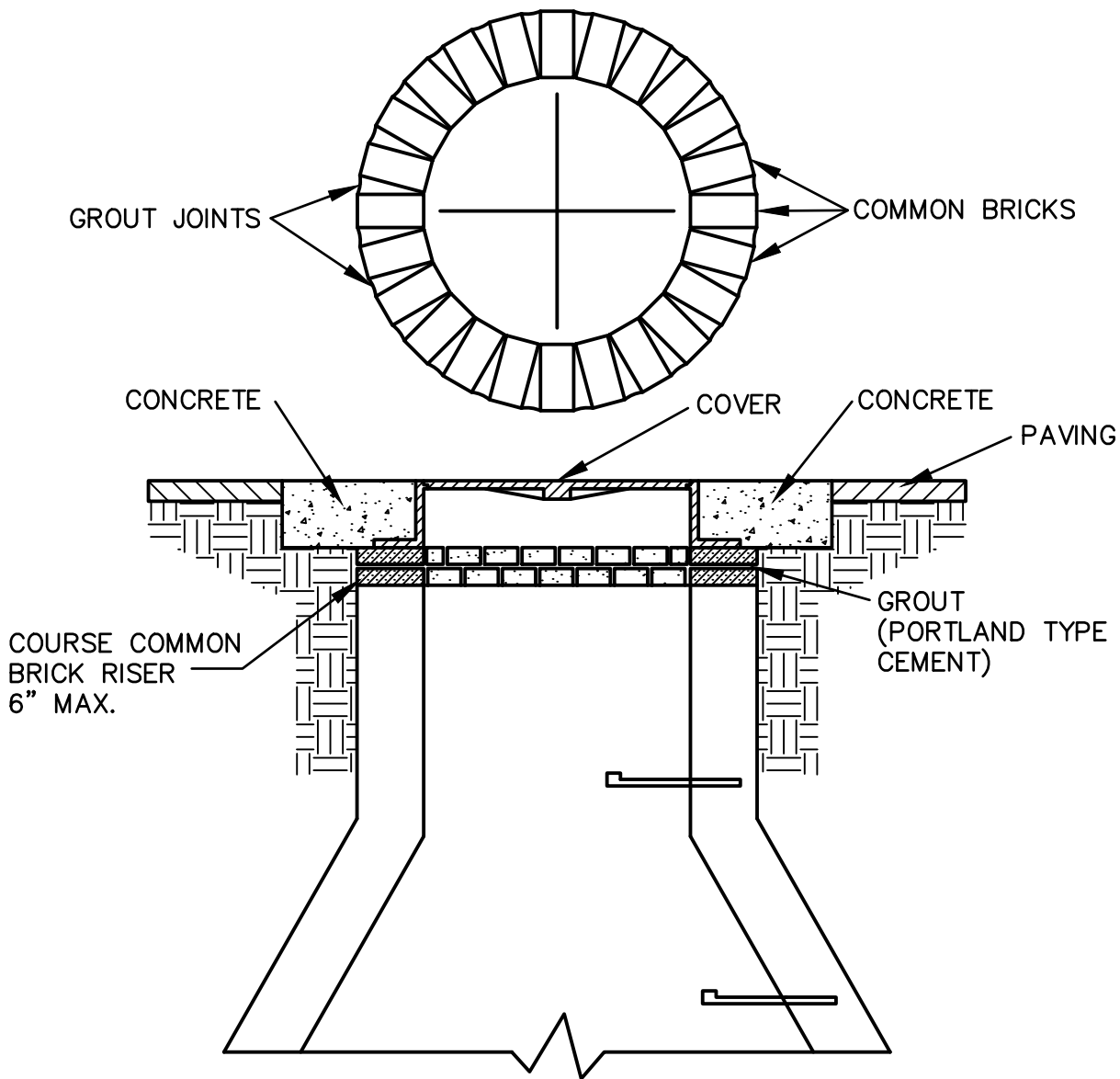
ALL DROP MANHOLES SHALL BE COATED PER SPECIFICATION 02603, AND ALL DIP SHALL BE COATED ON INTERIOR AS PER SPECIFICATION 18000.

DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM VACUUM TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION)

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE OUTSIDE DROP MANHOLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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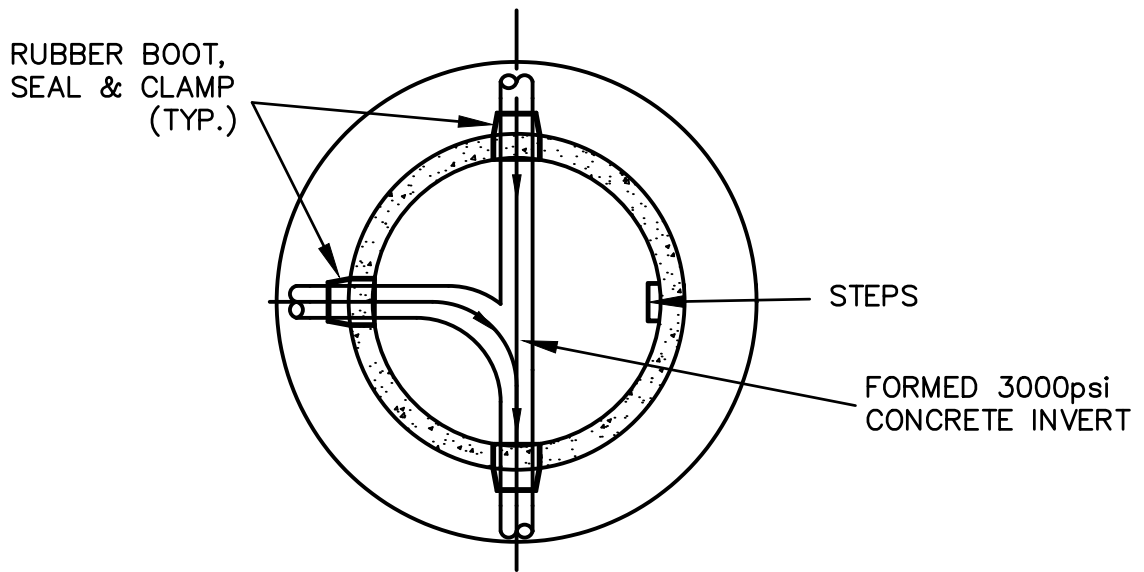
TOP VIEW OF BRICK
RISER DETAIL



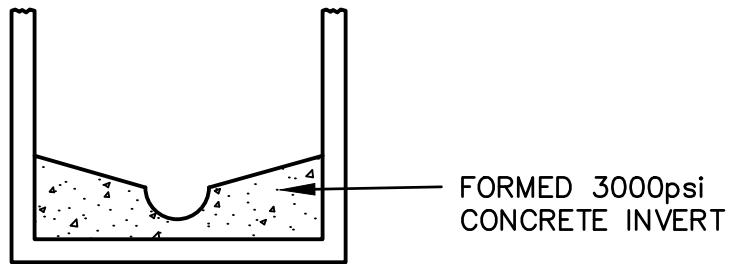
NOTE: BRICK SHALL BE USED WHEN UPWARD ADJUSTMENTS TO FINISHED GRADE ARE REQUIRED.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE LID GROUTING DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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		APPD BY <input type="checkbox"/>			
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PLAN VIEW OF MANHOLE



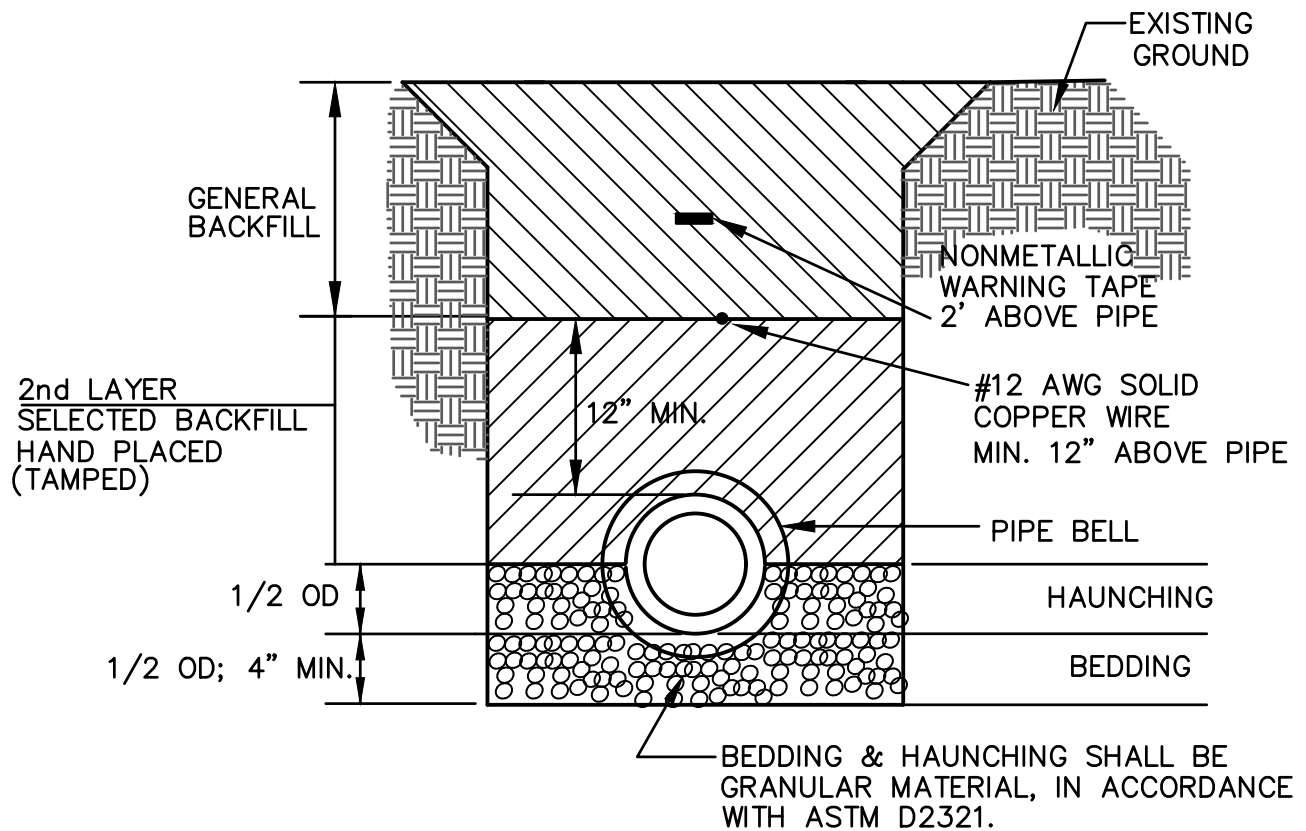
SOLID INVERT

- NOTE: 1. PRECAST INVERTS ARE ACCEPTABLE.
 2. A 0.2 FOOT DROP ACROSS INVERT REQUIRED.

NOTE:
 DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM VACUUM TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION)

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE INVERT CONSTRUCTION	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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DETAIL N <input type="checkbox"/> S-8					

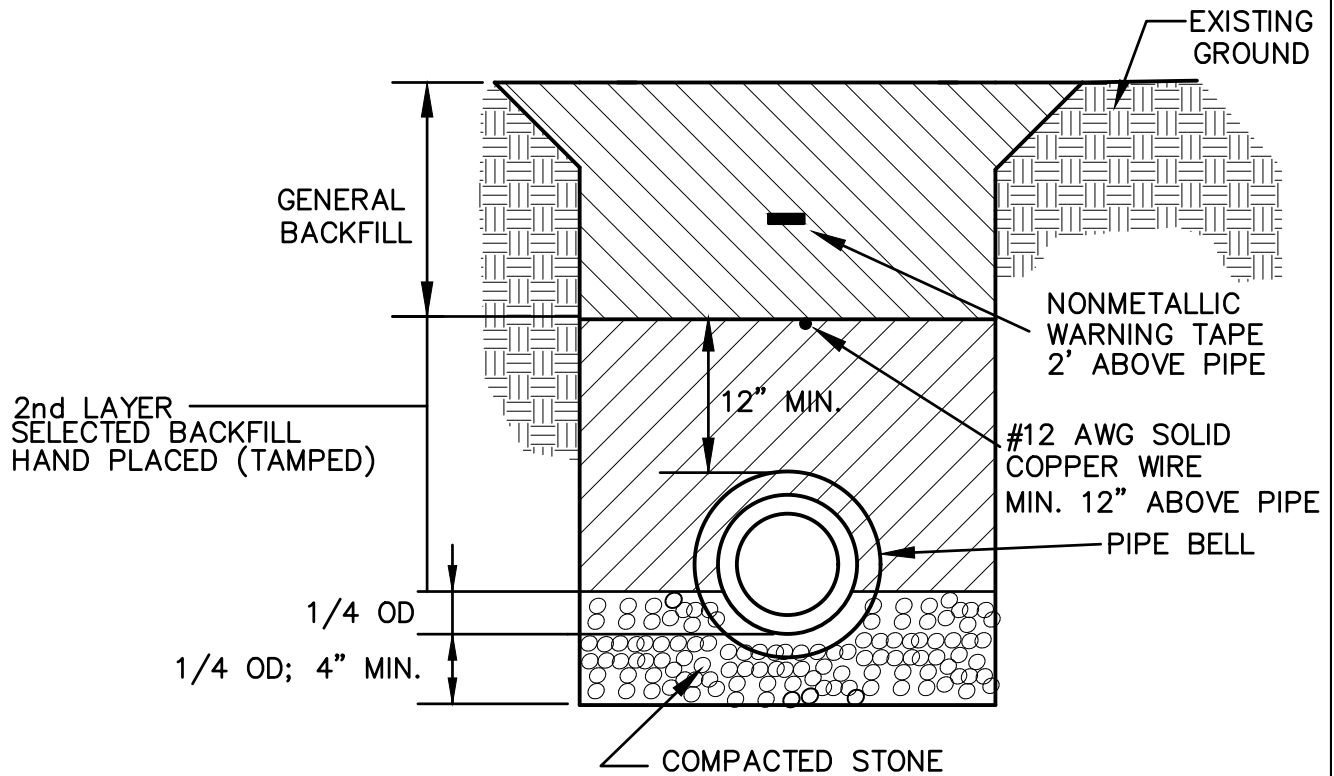


NOTES:

1. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR TRENCH BACKFILLING METHODS AND MATERIALS.
2. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR BEDDING MATERIALS.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE CLASS "B" BEDDING DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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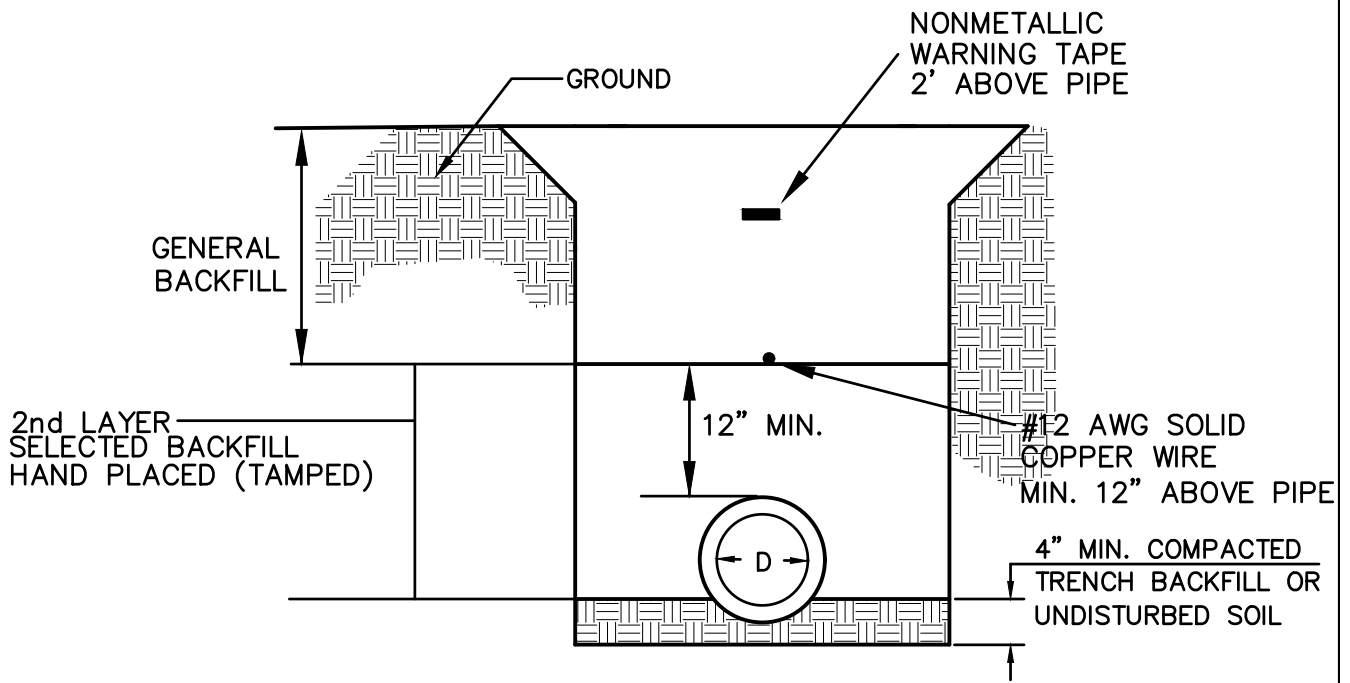


NOTES:

1. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR TRENCH BACKFILLING METHODS AND MATERIALS.
2. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR TRENCH BEDDING MATERIALS.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE CLASS "C" BEDDING DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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		APPD BY <input type="checkbox"/>			
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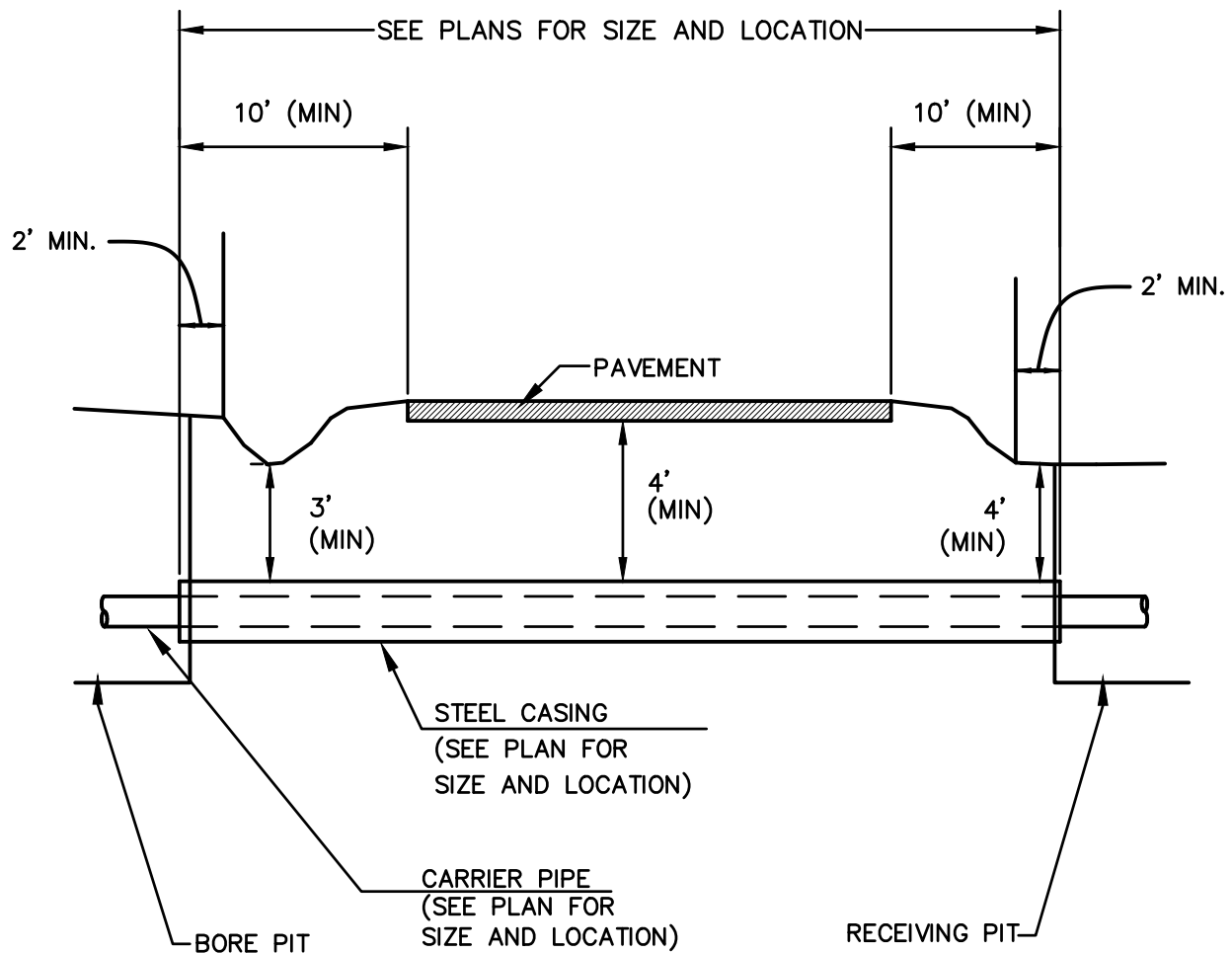


NOTES:

1. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR TRENCH BACKFILLING METHODS AND MATERIALS.
2. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR TRENCH BEDDING MATERIALS.
3. THIS DETAIL FOR DIP WATER MAINS ONLY.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE CLASS "D" BEDDING DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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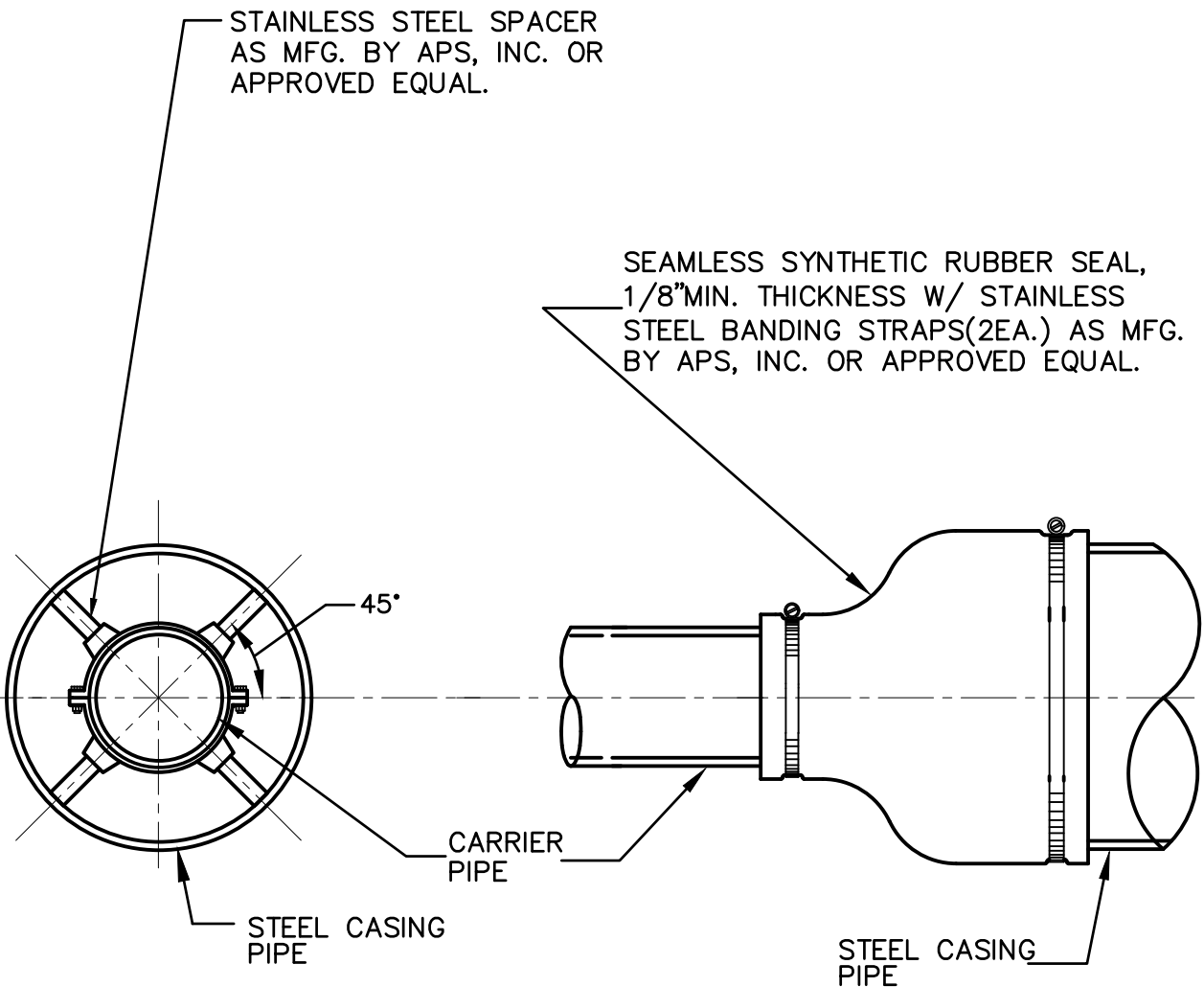


NOTES:

1. SEE SPECIFICATION SECTION 02300, BORING AND JACKING, FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL USE RESTRAINED JOINTS INSIDE CASING.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE TYPICAL ROAD BORE DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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		APPD BY <input type="checkbox"/>			
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		DETAIL N <input type="checkbox"/> S-15	FILE N <input type="checkbox"/> 18030 S-15.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N.T.S <input type="checkbox"/>	



SPACER DETAIL

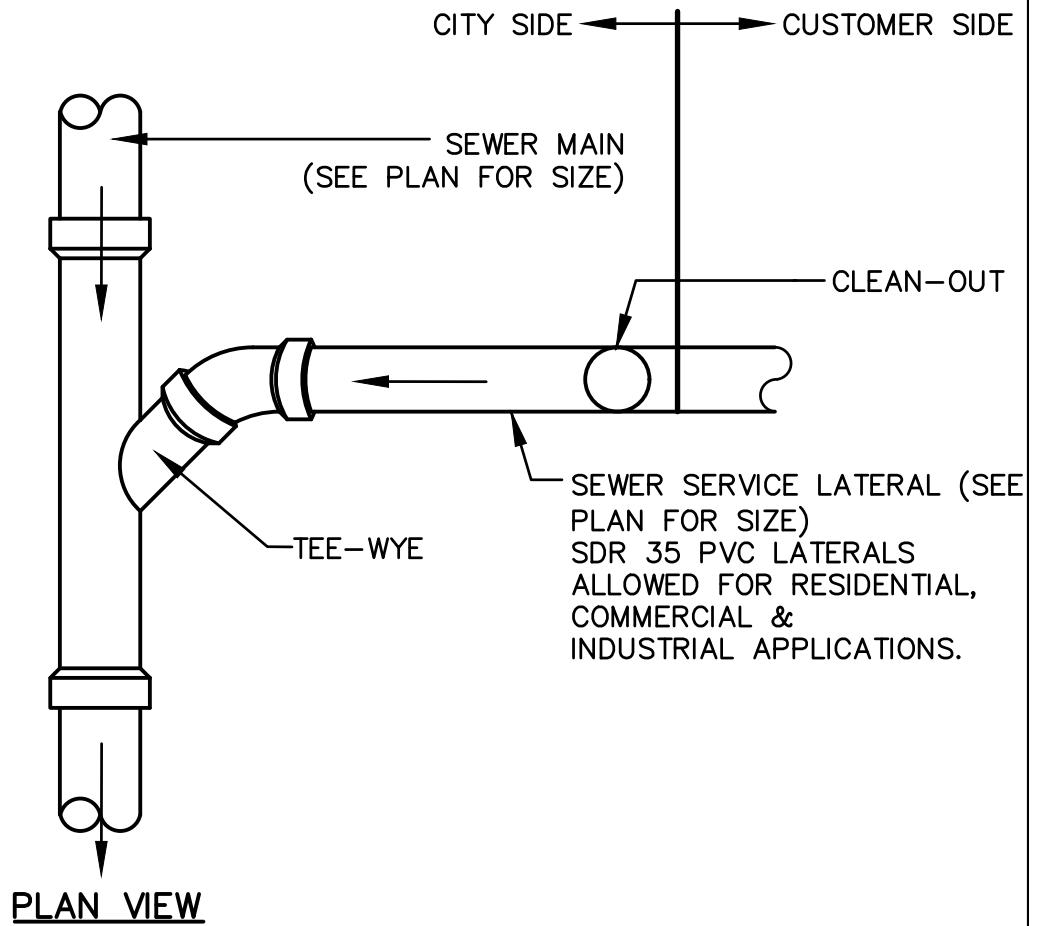
END SEAL DETAIL

NOTE: SPACERS REQUIRED AT EACH END OF CASING, AT BELLS,
AND IN THE MIDDLE OF EACH JOINT OF PIPE.

THIS DETAIL APPLIES TO BURIED APPLICATIONS ONLY.
ABOVE GROUND INSTALLATIONS SHALL BE UV PROTECTED.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE CASING DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
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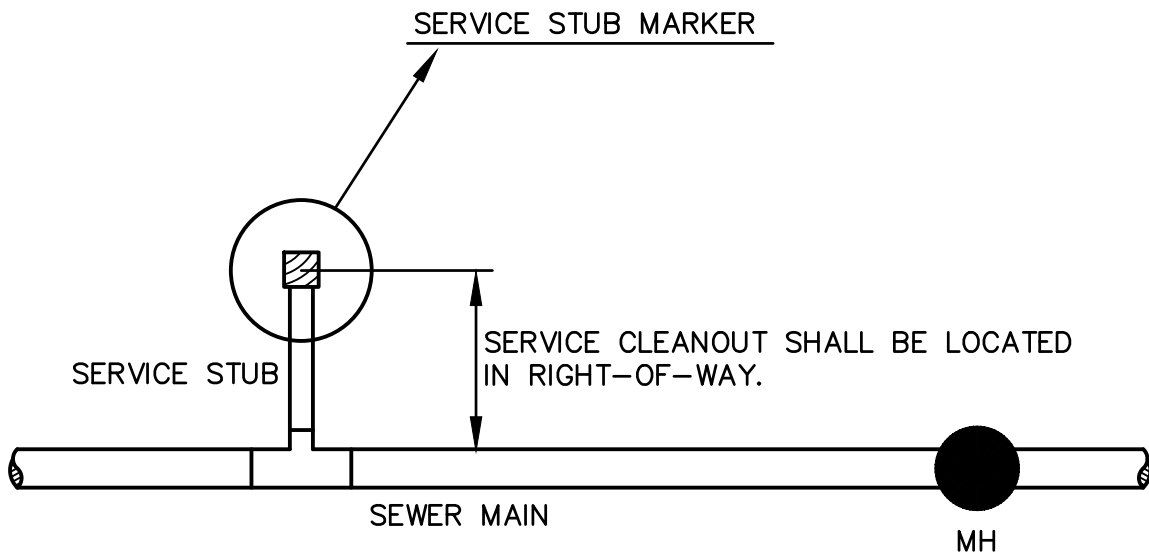
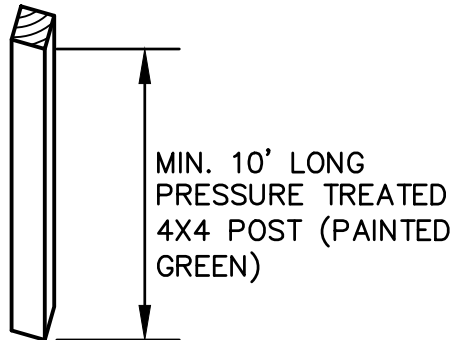
NOTE:

- 1) A CLEANOUT SHALL BE PLACED ON SERVICE LATERALS AT EVERY BEND.
- 2) ON STRAIGHT RUNS OF SERVICE LATERALS, CLEAN OUTS SHALL BE PLACED BETWEEN PROPERTY LINE AND HOUSE WITH SPACING NOT TO EXCEED 80’.
- 3) MINIMUM SLOPE FOR SERVICE LATERALS IS 1.00%.
- 4) LATERALS SHALL BE 6”Ø MINIMUM.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

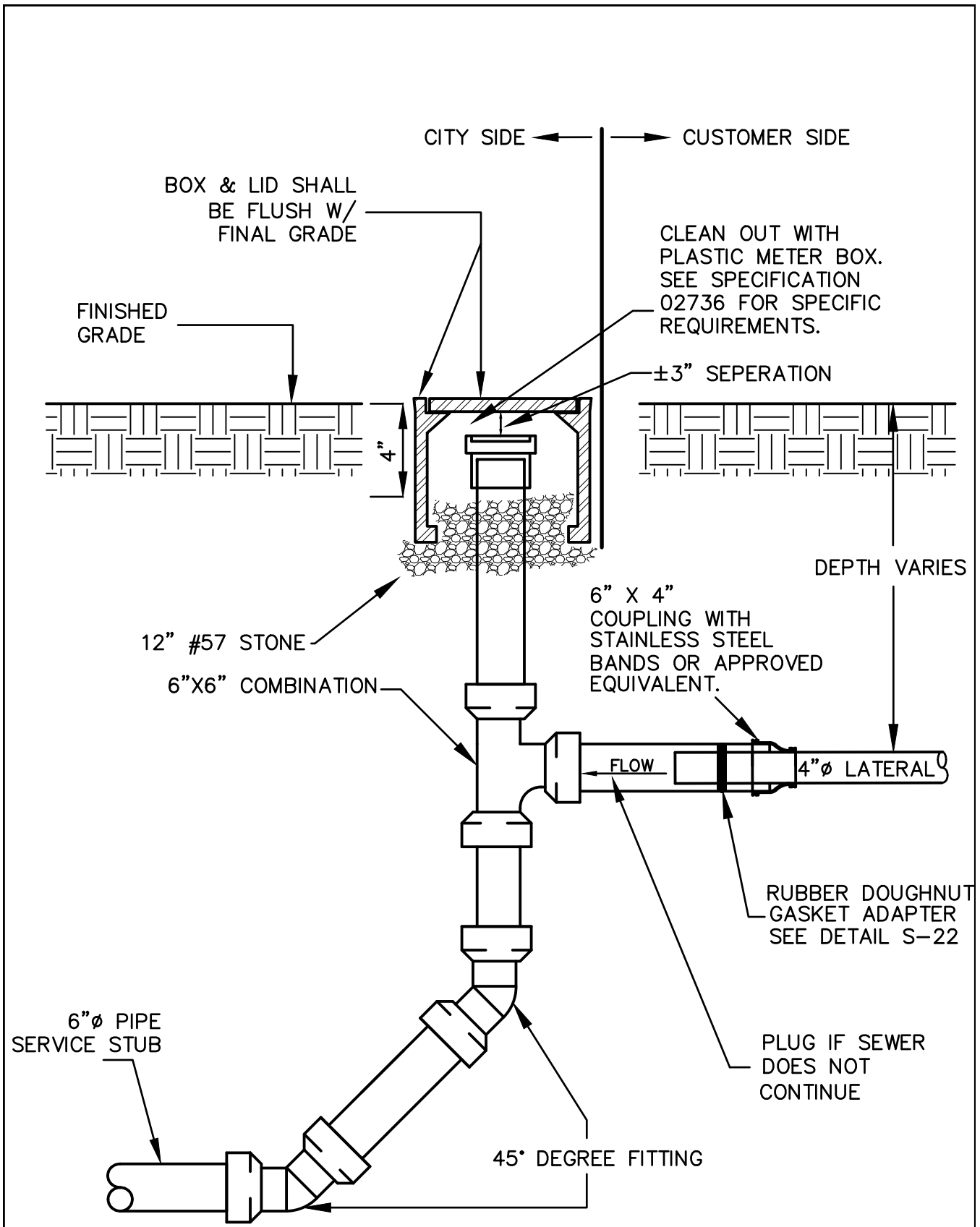
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NOTE:
 SERVICE STUB MARKERS SHALL
 BE BURIED TO THE BOTTOM OF
 THE DITCH WITH 6' REMAINING
 TO TOP OF GROUND.



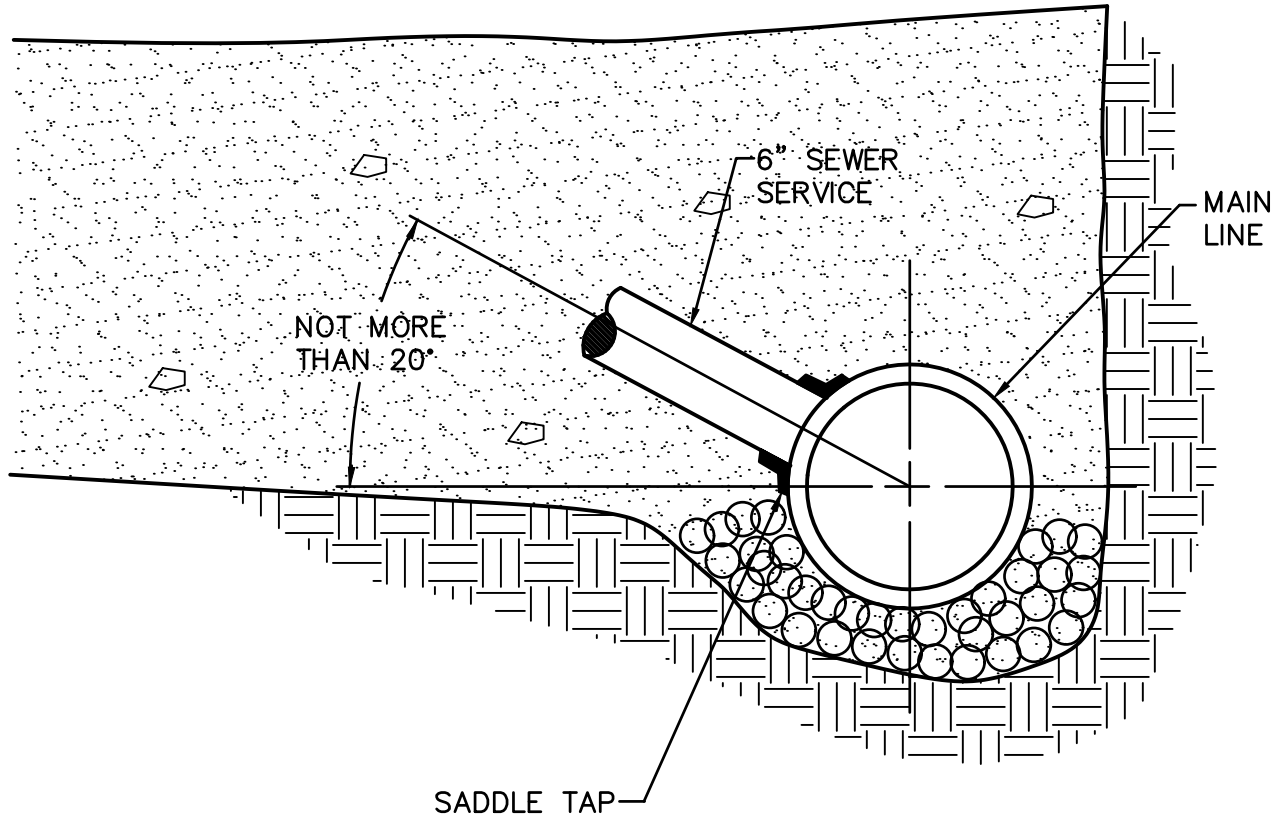
CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE SERVICE STUB MARKER DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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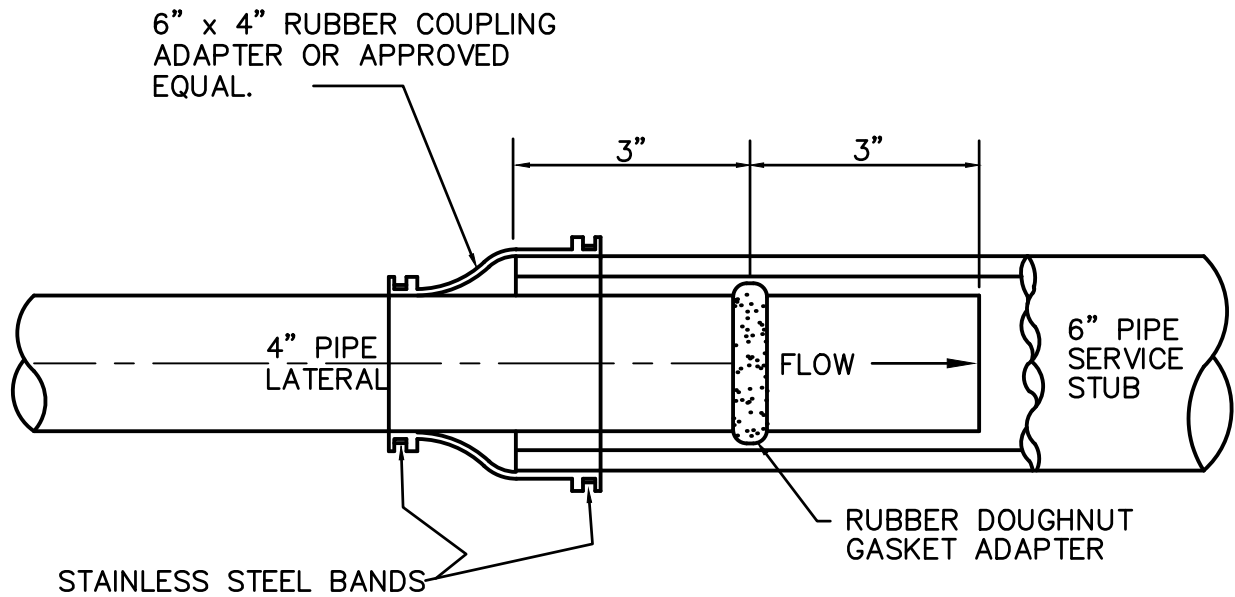
CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE 6" CLEANOUT DETAIL AT P/L	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
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		APPD BY <input type="checkbox"/>			
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CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	SEWER SERVICE MAIN TAP DETAIL	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
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NOTES:

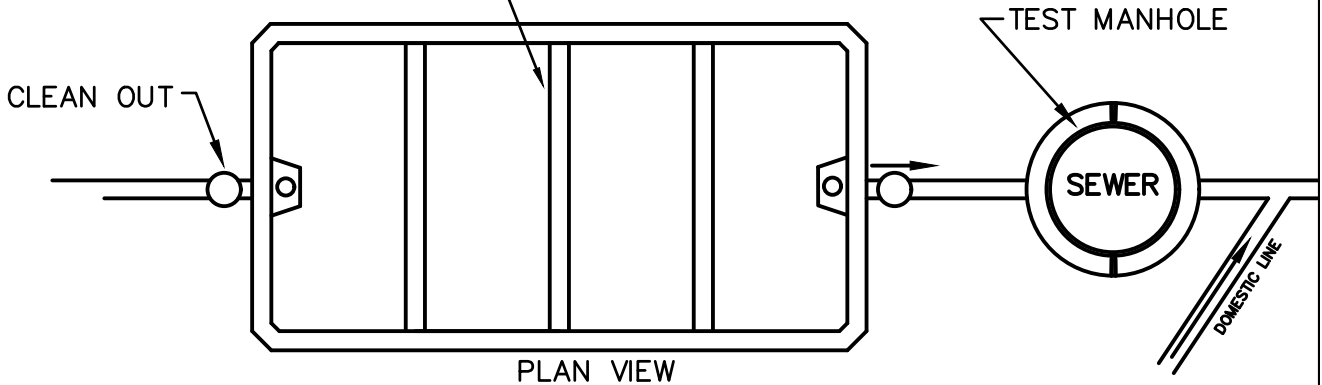
1. CONCRETE GROUT WILL NOT BE PERMITTED.
2. BELL MUST BE REMOVED FROM 6" SERVICE STUB.
3. DAMAGED END OF 6" STUB PIPE SHALL BE CUT STRAIGHT.
4. ADDITIONAL 6" PIPE SHALL BE INSTALLED TO FIVE FEET BEYOND THE PROPERTY LINE, THE RIGHT-OF-WAY ON STREET, OR THE EASEMENT.
5. EACH INSTALLATION MUST UTILIZE BOTH A DOUGHNUT GASKET AND A RUBBER COUPLING TYPE ADAPTOR.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

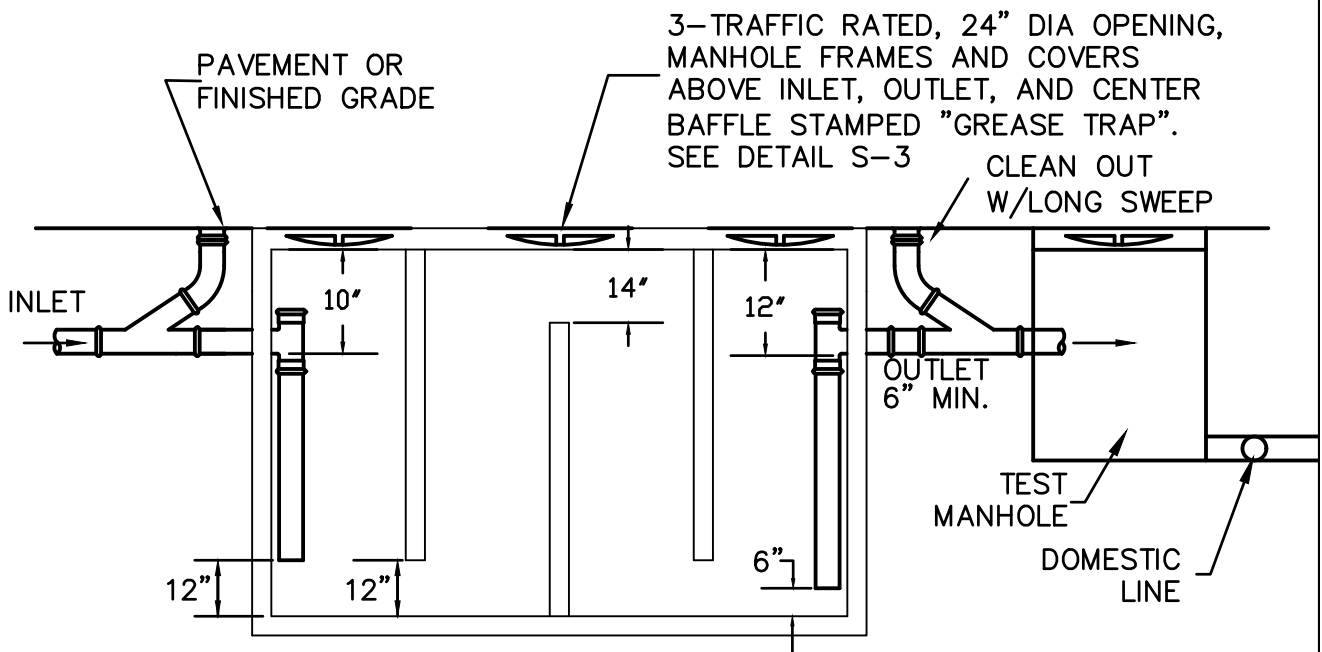
JOB TITLE STANDARD DETAIL	SHEET TITLE 4"Ø PIPE TO 6"Ø PIPE INSTALLATION DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> S-22	FILE N <input type="checkbox"/> 18030 S-22.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>	

NOTE: TYPICAL SIZE FOR 1,500 GALLON GREASE TRAP IS 10'L X 5'W X 5'D.

3 ea. BAFFLE WALLS - TYP.



PLAN VIEW



SECTION - VIEW

3-Traffic rated, 24" DIA opening, manhole frames and covers above inlet, outlet, and center baffle stamped "GREASE TRAP". SEE DETAIL S-3

NOTES:

1. MINIMUM CAPACITY OF 1500 GALLONS FOR ALL GREASE TRAPS.
2. DEVELOPER MUST SUBMIT GREASE TRAP DESIGN PRIOR TO DEVELOPMENT PERMIT ISSUANCE. SEE DETAIL S-25 FOR MINIMUM DESIGN CAPACITIES.
3. DEVELOPER MUST DESIGN ANY GREASE TRAP IN ACCORDANCE WITH DEPARTMENT OF HUMAN RESOURCES PUBLIC HEALTH, CHAPTER 290-5-26, SECTION D, GREASE TRAPS. DEVELOPER TO SUBMIT CALCULATIONS WITH DESIGN DRAWINGS PRIOR TO PERMITTING.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE GREASE TRAP DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> S-24	FILE N <input type="checkbox"/> 18030\S-24.dwg	SCALE <input type="checkbox"/> N.T.S.	

DESIGN CRITERIA

THE FOLLOWING DESIGN EQUATIONS ARE TO BE USED
WHEN SIZING A GREASE TRAP.
MINIMUM SIZE: 1500 GALLONS

1. RESTAURANTS

$$S \times GS \times HR/12 \times LF = \text{GREASE TRAP SIZE IN GALLONS}$$

WHERE:

S = NUMBER OF SEATS IN DINING AREA

GS = GALLONS OF WASTEWATER PER SEAT
(USE 25 GAL. PER SEAT MIN.)

HR = NUMBER OF HOURS OPEN

LF = LOADING FACTOR – 1.25 INTERSTATE FREEWAYS
1.00 OTHER FREEWAYS
1.00 RECREATIONAL AREAS
0.80 MAIN HIGHWAYS
0.50 OTHER HIGHWAYS

2. HOSPITALS, NURSING HOMES, OTHER TYPE COMMERCIAL KITCHENS WITH VARIED SEATING CAPACITIES.

WHERE:

S = NUMBER OF SEATS IN DINING AREA

GS = GALLONS OF WASTEWATER PER SEAT
(USE 25 GAL. PER SEAT MIN.)

HR = NUMBER OF HOURS OPEN

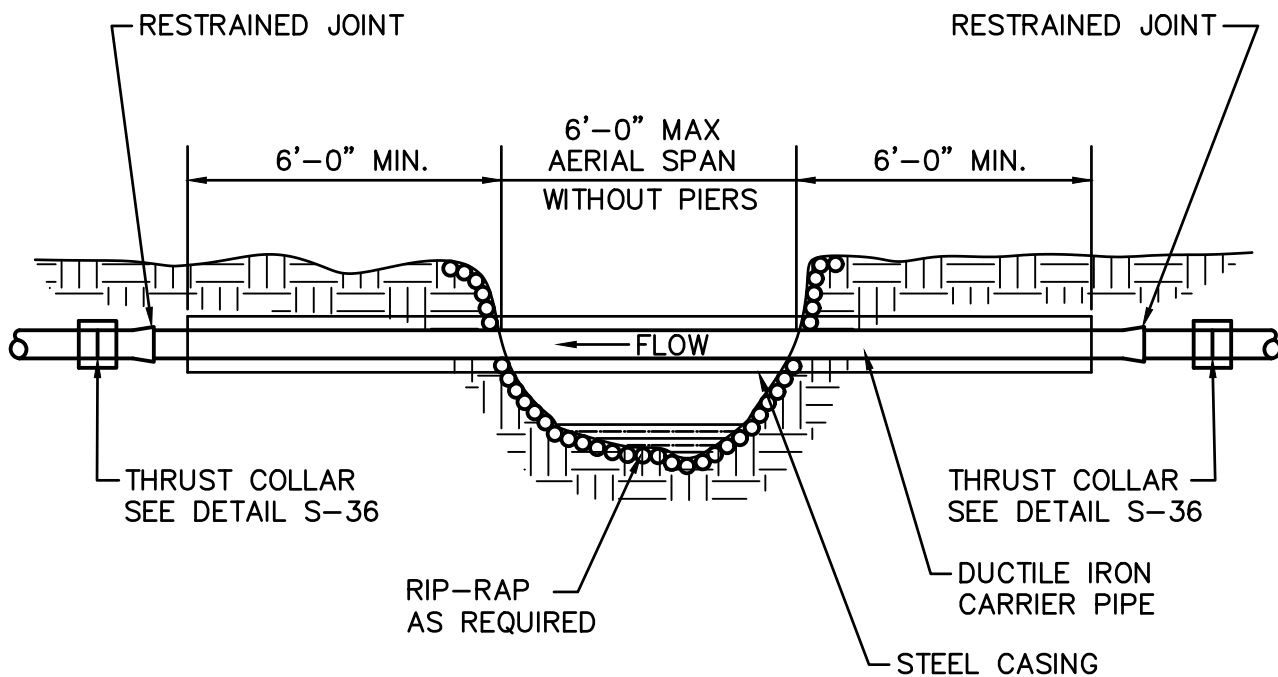
LF = LOADING FACTOR – 1.25

NOTE:

1. SEE CITY OF HOSCHTON ENGINEER FOR SEWAGE FLOW SCHEDULES AND ADDITIONAL INFORMATION.
2. DEVELOPMENT PERMIT WILL NOT BE ISSUED WITHOUT APPROVED GREASE TRAP SIZING CALCULATIONS.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE GREASE TRAP DESIGN CALCULATIONS	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> S-25	FILE N <input type="checkbox"/> 18030\S-25.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T/S <input type="checkbox"/>	



NOTES:

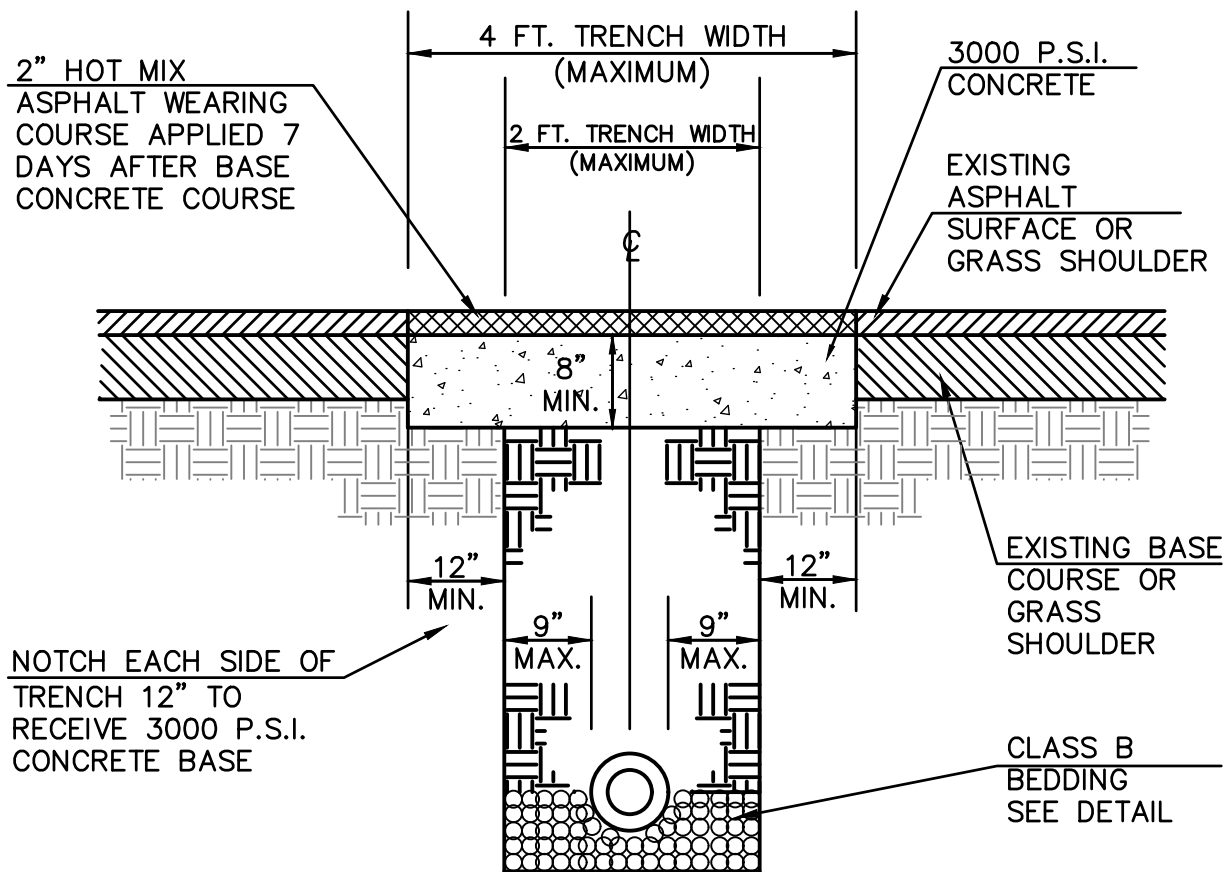
1. AERIAL CROSSINGS MUST BE APPROVED BY CITY ENGINEER.
2. PIPE CONNECTIONS (I.E. JOINTS) SHALL NOT BE EXPOSED ON AERIAL LINES, EXCEPT WITH PIERS.
3. CASING IS REQUIRED ON ALL EXPOSED AERIAL LINES.
4. CASING SPACES & END SEALS PER DETAIL S-16 REQUIRED
5. DIP SHALL HAVE INTERIOR COATING PER SPECIFICATION 18000.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	NON-PIER AERIAL D.I.P. SEWER LINE	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
	DETAIL N <input type="checkbox"/> S-27	FILE N <input type="checkbox"/> 18030 S-27.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T/S <input type="checkbox"/>		

GENERAL NOTES:

1. PROVIDE STRAIGHT VERTICAL SAW CUTS TO A NEAT LINE AS DIRECTED BY FIELD ENGINEER.
2. CONCRETE SURFACES TO BE CLEANED AND BITUMINOUS TACK OR PRIME COAT APPLIED BEFORE PLACEMENT OF ASPHALTIC TOPPING.
3. CONTRACTOR TO UTILIZE STEEL RUNNING PLATES OR OTHER APPROVED METHODS DURING CURING OF CONCRETE. PLATES TO BE REMOVED UPON SATISFACTION OF FIELD ENGINEER.
4. WHEN INSTALLING PIPELINE AT EDGE OF ROAD LANE—WITHIN 3—FEET OF EDGE OF PAVEMENT, THIS PAVEMENT CUT AND REPLACEMENT MUST EXTEND AND INCLUDE THE ENTIRE WAY TO THE EDGE OF THE PAVEMENT.
5. SEE SPECIFICATION SECTIONS 02225 AND 02523 FOR ADDITIONAL INFORMATION AND PROCEDURES FOR PAVEMENT CUT AND REPAIR.
6. CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH G.D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, LATEST EDITION.



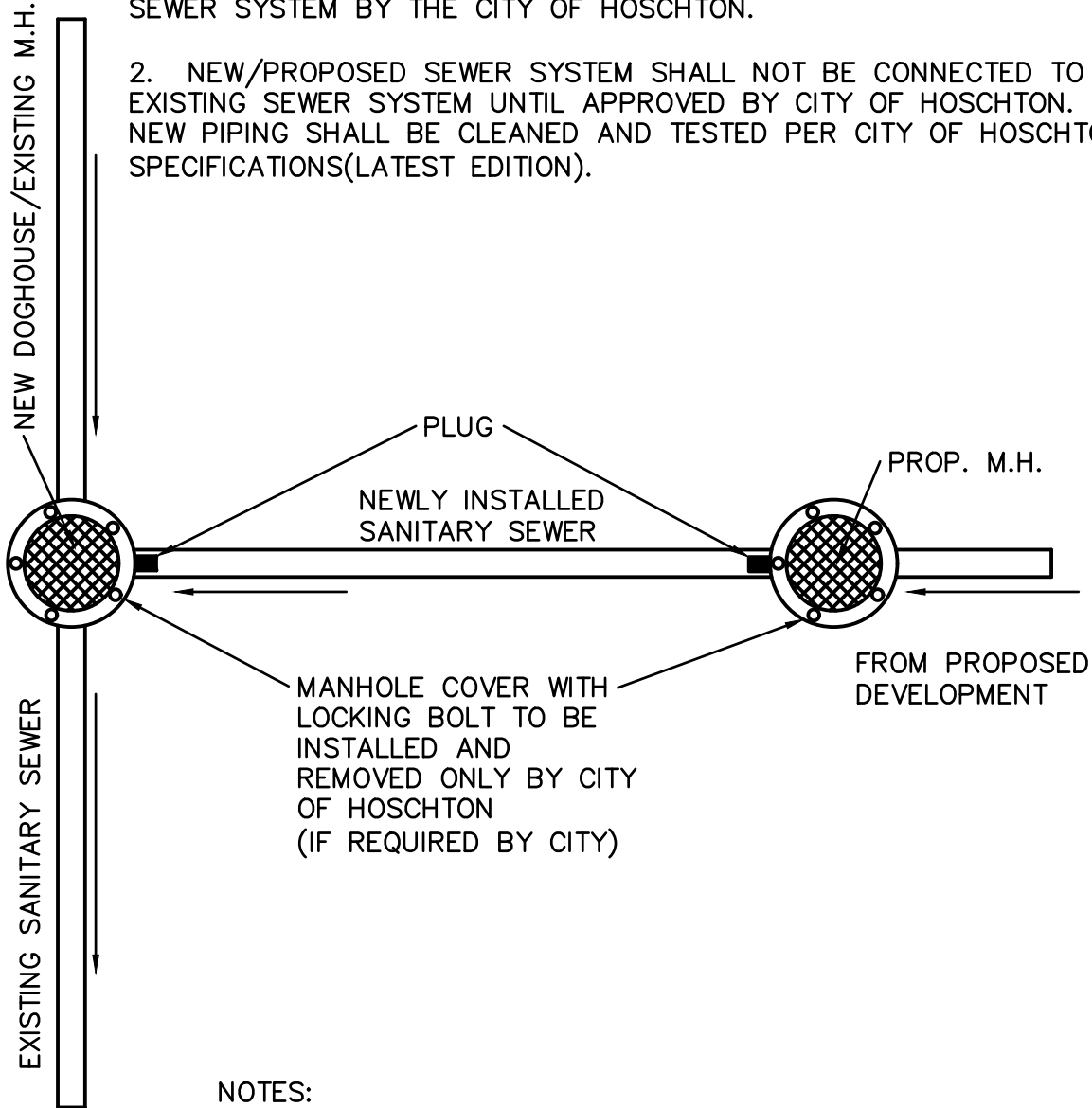
CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE PAVEMENT CUT REPAIR DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		FILE NO <input type="checkbox"/> 18030 S-31.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T/S <input type="checkbox"/>		
DETAIL N <input type="checkbox"/> S-31					

NOTES:

1. FIRST SECTION OF PROPOSED SEWER LINE SHALL BE ISOLATED FROM THE REST OF THE PROPOSED SYSTEM. THE FIRST MANHOLE OF THE PROPOSED SYSTEM SHALL BE USED TO PUMP OUT ANY INFLOW/ INFILTRATION, MUD, ETC., THAT ENTERED DURING CONSTRUCTION. THE PLUGS SHALL NOT BE REMOVED UNTIL APPROVAL OF PROPOSED SEWER SYSTEM BY THE CITY OF HOSCHTON.

2. NEW/PROPOSED SEWER SYSTEM SHALL NOT BE CONNECTED TO EXISTING SEWER SYSTEM UNTIL APPROVED BY CITY OF HOSCHTON. ALL NEW PIPING SHALL BE CLEANED AND TESTED PER CITY OF HOSCHTON SPECIFICATIONS(LATEST EDITION).

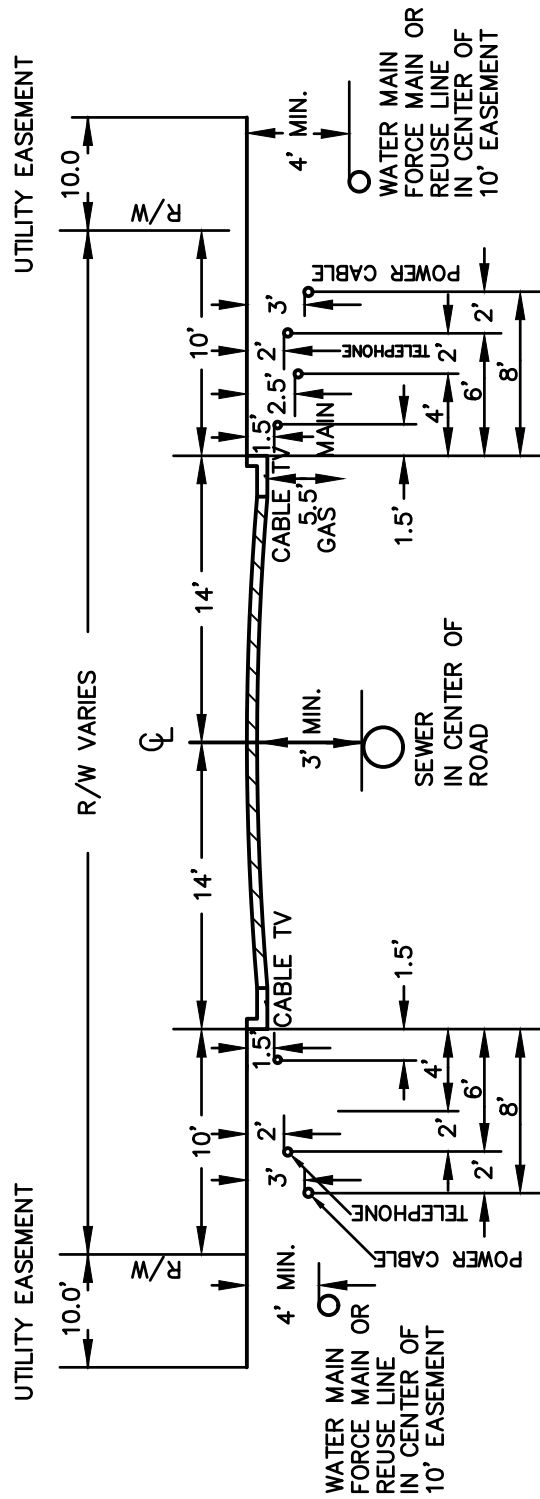


NOTES:

1. TEST MANHOLE REQUIRED FOR COMMERCIAL & INDUSTRIAL DEVELOPMENT.
2. LOCATION TO BE APPROVED BY CITY ENGINEER.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE PLUG LOCATION DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> S-32	FILE N <input type="checkbox"/> 18030 S-32.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>	

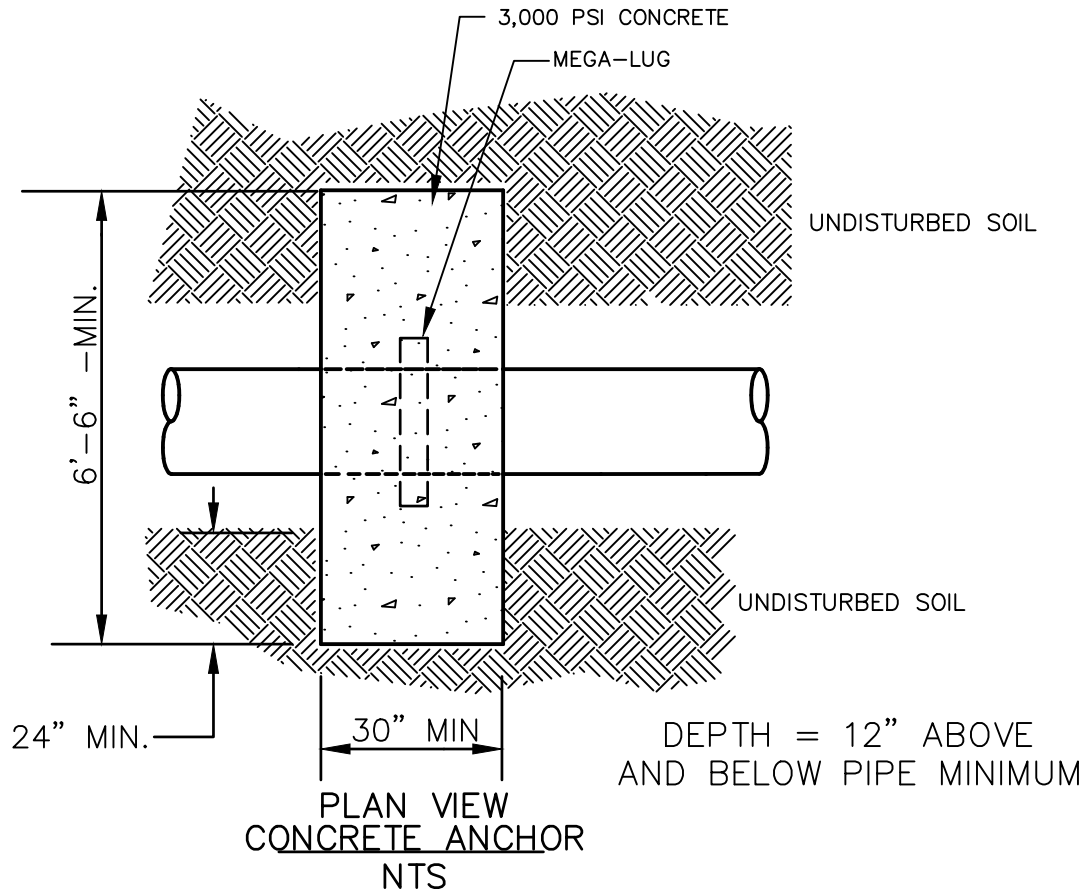


NOTE:

- BEFORE ANY UTILITY IS INSTALLED, THE ENTIRE WIDTH OF THE R/W SHALL BE ROUGH GRADED AND ALL CONCRETE CURBING SET AT FINAL GRADES.
 - IN GENERAL, THE DEEPEST UTILITIES SHOULD BE INSTALLED FIRST TO MINIMIZE ANY POSSIBLE INTERFERENCE WITH LATERALS OR SERVICE LINES.
 - STREET OPENING PERMITS ARE REQUIRED BEFORE ANY COMPLETED PAVEMENT CAN BE CUT FOR ANY PURPOSE.
 - IN CUL-DE-SAC STREETS, ALL DIMENSIONS SHALL BE THE SAME AS STANDARD STREET SPACING.
 - EACH UTILITY SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO OTHER UTILITIES, OR TO THE STREET IMPROVEMENTS WITHIN THE R/W.
 - DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM MANHOLE VACUUM TESTS AND SEWER LINE TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION)
- IT IS RECOMMENDED THAT THE WATERLINES AND SEWER FORCEMAINS BE LOCATED ON OPPOSITE SIDES OF THE STREET IN THE UTILITY EASEMENT. MINIMUM SEPARATIONS FOR WATER AND SEWER FROM SECTION 2736 OF THE SPECIFICATIONS MUST BE FOLLOWED.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/> BY	DATE
	UTILITY LOCATIONS WITHIN R/W	CKD BY <input type="checkbox"/>		
		APPD BY <input type="checkbox"/>		
		DATE <input type="checkbox"/> SEPT 2018		
		FILE NO <input type="checkbox"/> 18030 S-33.p <input type="checkbox"/>	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>	
DETAIL N <input type="checkbox"/> S-33				



NOTE: DIMENSIONS SHOWN ARE MINIMUM ACCEPTABLE DIMENSIONS. DESIGN ENGINEER SHALL PROVIDE A THRUST COLLAR DETAIL APPROPRIATE FOR SPECIFIC PROJECT CONDITIONS ON THE PLANS.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE THRUST COLLAR	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> S-36	FILE N <input type="checkbox"/> 18030-S-36.dwg	SCALE <input type="checkbox"/> N.T.S.	

NOTES:

A PRECONSTRUCTION CONFERENCE MUST BE HELD WITH THE CITY OF HOSCHTON WATER AND SEWER DEPARTMENTS AND THE CONTRACTOR OF RECORD BEFORE ANY WORK MAY BEGIN.

DESIGN CRITERIA:

- FLOW PER SINGLE FAMILY RESIDENCE – 150 GPD FOR ONE (1) BEDROOM APT.
- 200 GPD FOR TWO (2) BEDROOM APT.
- 250 GPD FOR OTHER RESIDENTIAL

COMMERCIAL/INDUSTRIAL APPLICATIONS: ENGINEER SHALL SUBMIT INFORMATION USED FOR DESIGN FLOW.

PEAK FACTOR: MIN. 2.5, CASE BY CASE DETERMINED

DESIGN FLOWS _____ AVERAGE _____ PEAK

STATIC HEAD _____ TDH _____

FORCE MAIN DIAMETER _____

FORCE MAIN VELOCITY _____ (MIN. 3.0/MAX 6.0 F.P.S.)

HIGH ALARM ELEVATION _____

LOWEST OVERFLOW ELEVATION _____

STORAGE VOLUME _____

STORAGE TIME AT AVERAGE DESIGN FLOW _____

PUMPS:

MANUFACTURER _____

MODEL _____

IMPELLER DIAMETER _____

HORSEPOWER _____

_____ V _____ DIA _____ WIRE _____ CYCLE

WET WELL VOLUME _____ (SIZED FOR INFLUENT FLOW =1/2 PUMPING RATE AND MINIMUM CYCLE TIME.)

THIS SHALL SERVE AS MINIMUM GUIDELINE FOR DEVELOPER/CONTRACTOR TO PROVIDE THIS INFORMATION AT DEVELOPMENT REVIEW SUBMITTAL. CALCULATIONS SHALL ALSO ACCOMPANY SUBMITTAL SHOWING CALCULATIONS AND ASSUMPTIONS FOR TDH, CYCLE TIMES, AND PUMP ON AND OFF ELEVATIONS. BOUYANCY CALCULATIONS ARE ALSO REQUIRED.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

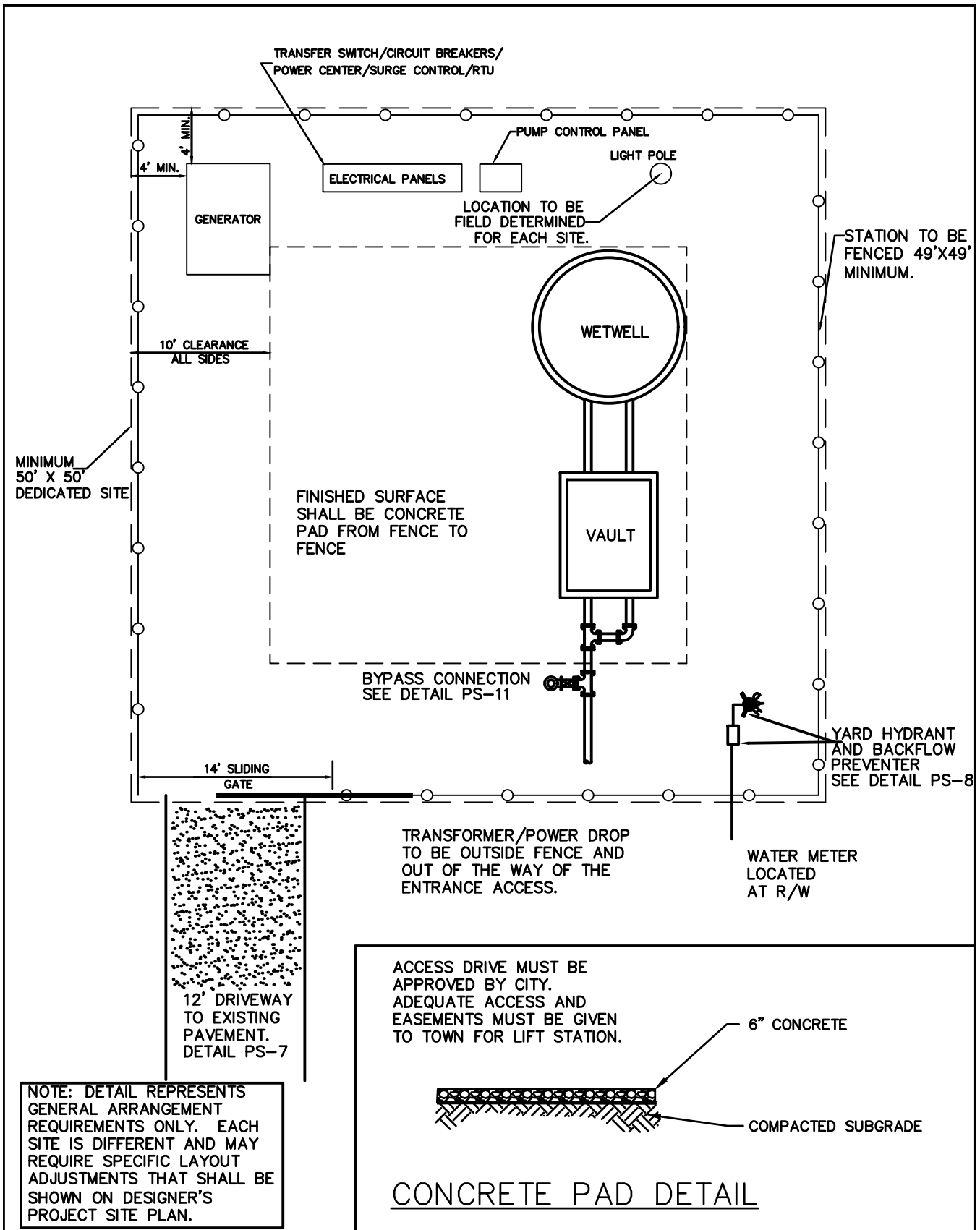
JOB TITLE STANDARD DETAIL	SHEET TITLE LIFT STATION DATA	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
	DETAIL N <input type="checkbox"/> PS-1	FILE N <input type="checkbox"/> 18030 PS-1 DWG	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>		

NOTES:

1. SEE CITY SPECIFICATIONS FOR APPROVED SUBMERSIBLE SEWAGE LIFT STATION.
2. OUTSIDE ELECTRICAL CONTROL CENTER PANEL, NEMA 4 ENCLOSURE MADE OF BRUSHED ALUMINUM OR STAINLESS STEEL WITH NEOPRENE GASKETS AND LOCKS.
3. FOR ALL PIPE PENETRATIONS THROUGH CONCRETE WALLS USE LINK SEAL WS PRODUCTS.
4. VAULT SHALL BE REINFORCED CONCRETE (MIN. 3000 PSI) IN ACCORDANCE WITH ASTM C 913.
5. ALL PIPING FROM PUMPS TO DISCHARGE OF VALVE VAULT TO BE FLANGED DIP.
6. WETWELL SHALL BE COATED AS PER SPECIFICATIONS--SEE SECTION 02603.
7. ALL DIP SHALL HAVE INTERIOR COATING AS PER SPECIFICATION 18000.
8. ALL DIP INSIDE THE WETWELL SHALL HAVE EXTERIOR COATING AS PER SPECIFICATION 18001.
9. DETAIL AND ARRANGEMENT SHOWN AS MINIMUM GUIDELINES ONLY.
10. NOT ALL REQUIRED ITEMS ARE SHOWN.

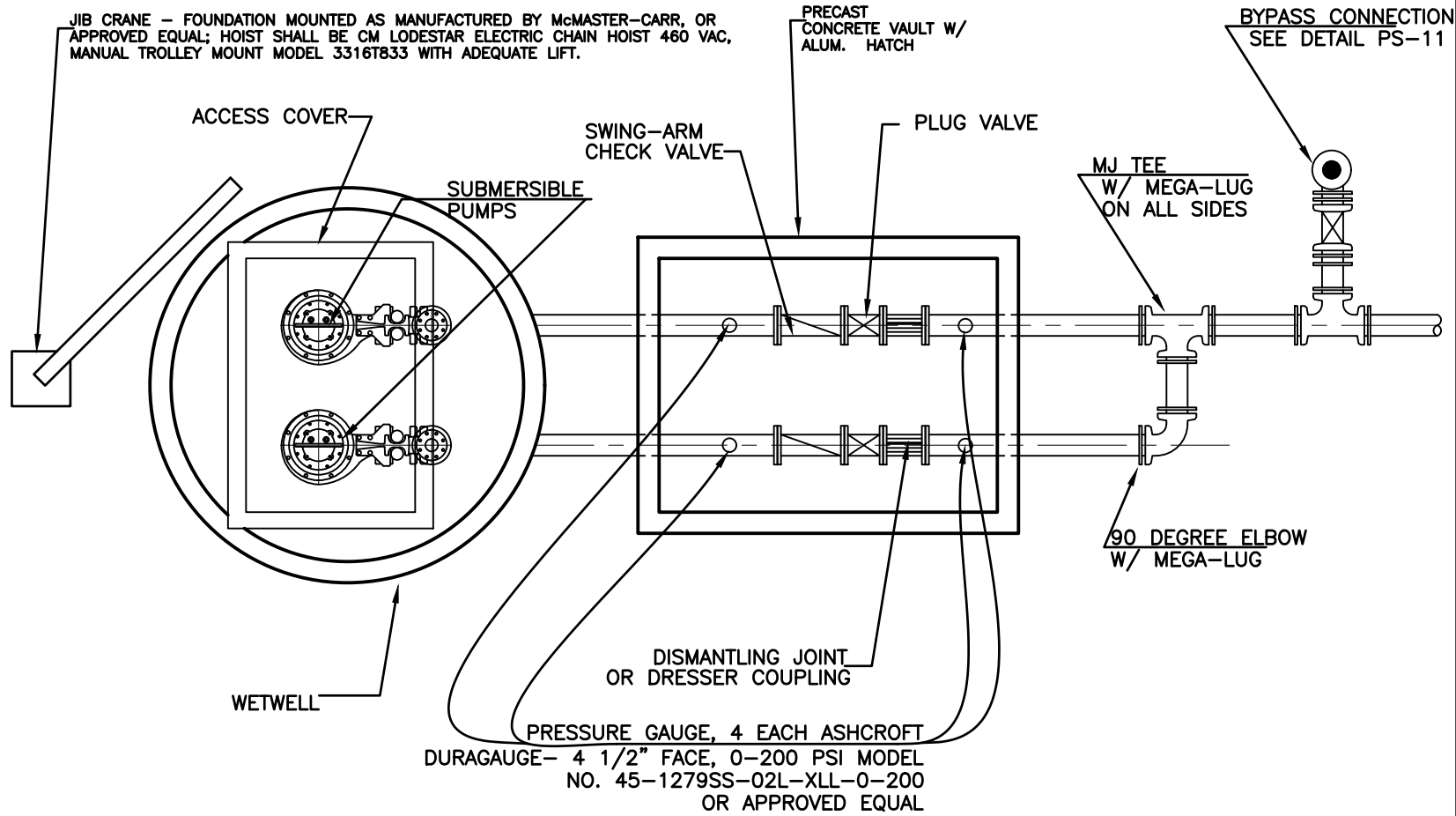
CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE LIFT STATION DETAIL NOTES	DRN□BY□ EMI	REV□NO□	BY	DATE
		CKD BY□			
		APPD□BY□			
		DATE□ SEPT 2018			
		DETAIL N□□ PS-2	FILE N□□180301PS-2.d□□	SCALE□N1T□S□	



CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

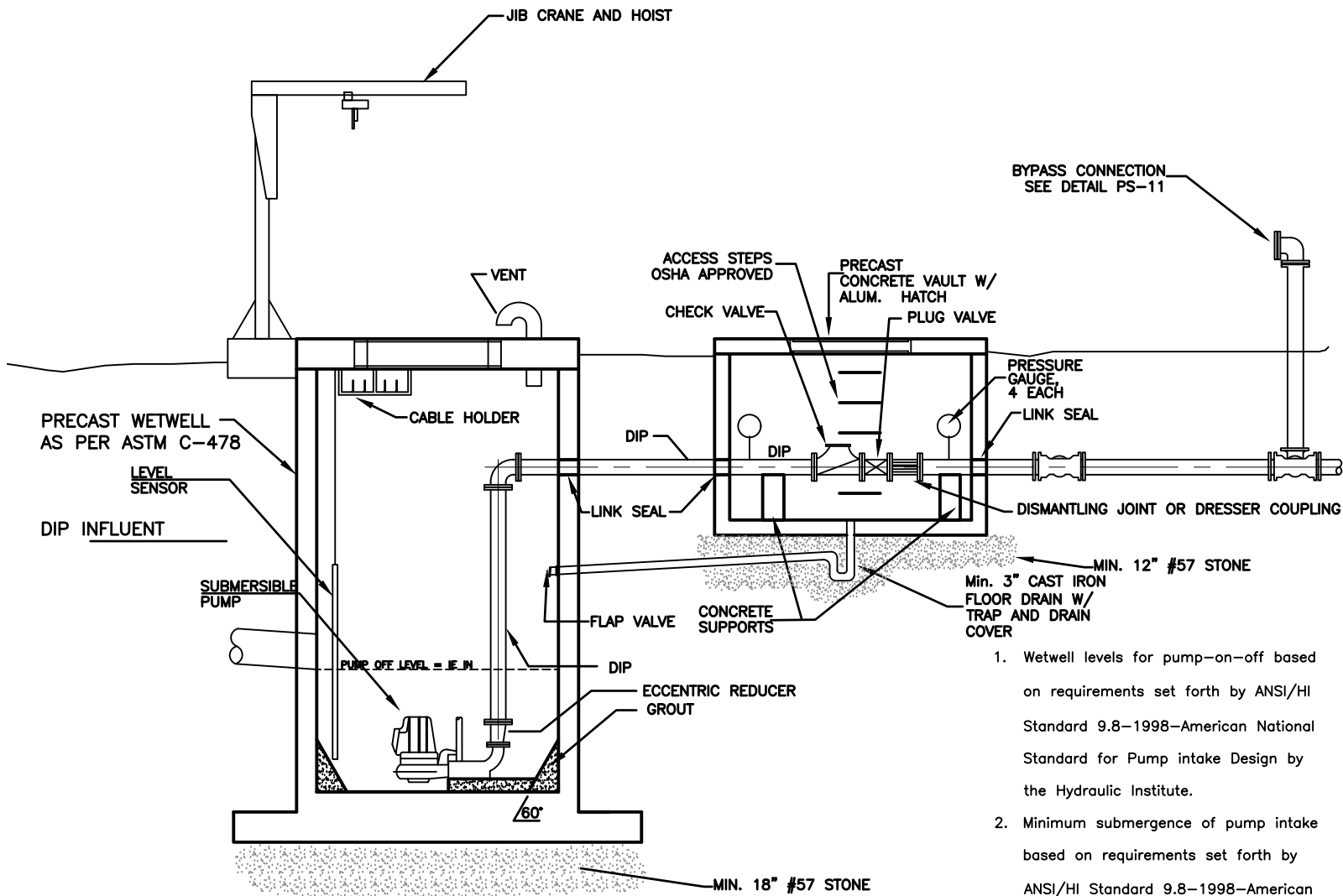
JOB TITLE STANDARD DETAIL	SHEET TITLE LIFT STATION SITE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
	DETAIL N <input type="checkbox"/> PS-3	FILE N <input type="checkbox"/> 18030 PS-3.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T/S <input type="checkbox"/>		



**PLAN VIEW
LIFT STATION**

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE LIFT STATION PLAN VIEW WETWELL-VAULT		DRN/ BY	EMI	REV. NO.	BY	DATE
	DETAIL NO. PS-4		CKD BY	APPD. BY	DATE: SEPT 2018		SCALE: N.T.S.
FILE NO. 18030/PS-4							



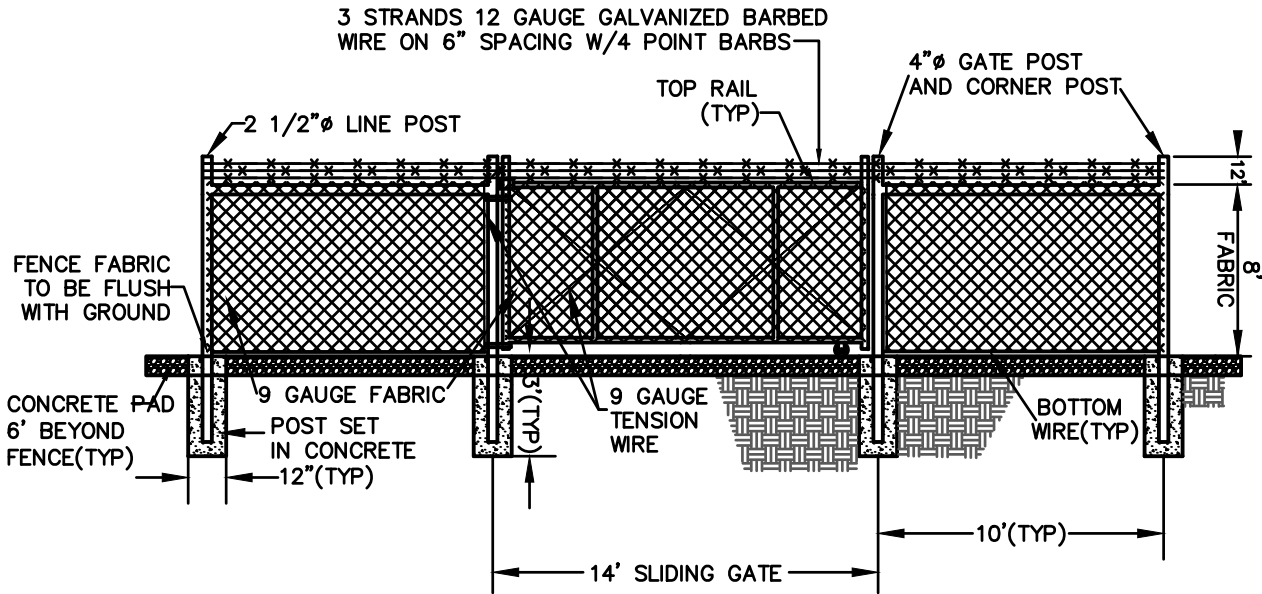
**SECTION VIEW
LIFT STATION**

1. Wetwell levels for pump-on-off based on requirements set forth by ANSI/HI Standard 9.8-1998-American National Standard for Pump intake Design by the Hydraulic Institute.
2. Minimum submergence of pump intake based on requirements set forth by ANSI/HI Standard 9.8-1998-American National Standard for Pump intake Design by the Hydraulic Institute.
3. Over the life of the design, the Roughness Factor C may range from C = 130 to C = 150.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE LIFT STATION SECTION VIEW WETWELL-VAULT		DRN BY <input type="checkbox"/>	EMI <input type="checkbox"/>	REV NO <input type="checkbox"/>	BY <input type="checkbox"/>	DATE <input type="checkbox"/>
	DETAIL NO <input type="checkbox"/> PS-5		CKD BY <input type="checkbox"/>	APP'D BY <input type="checkbox"/>	DATE <input type="checkbox"/> SEPT 2018	FILE NO <input type="checkbox"/> 18030/PS-5.dwg	SCALE <input type="checkbox"/> 1"=1'-0"

6"X12" ALUMINUM
SIGN SHALL BE
MOUNTED ON
FENCE GATE AS
SHOWN

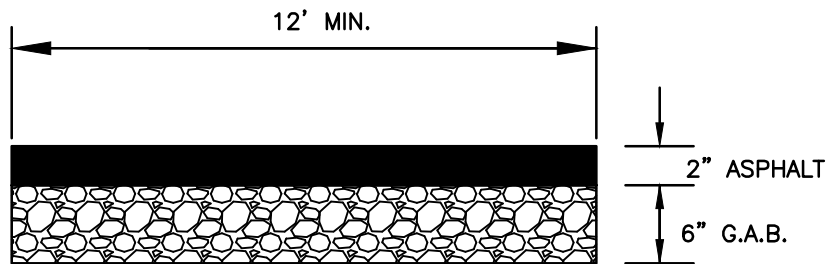


NOTES:

1. PVC FENCE SLATS MAY BE REQUIRED AT SOME LOCATIONS AND AT THE DEVELOPERS OPTION AT OTHERS OR AS REQUIRED BY CITY.
2. 7 GAUGE TENSION WIRES ARE REQUIRED AT THE TOP AND BOTTOM OF THE FENCE.
3. CONTRACTOR/DEVELOPER SHALL FURNISH GATE LOCK AND TWO KEYS – MASTER KEYED TO CITY'S SYSTEM.
4. SLIDING GATES ON ROLLERS REQUIRED.
5. FENCE FINSH SHALL BE COATED WITH BLACK VINYL.
6. SIGN SHALL BE MOUNTED ON GATE STATING "NO TRESPASSING, CITY OF HOSCHTON SEWER DEPARTMENT STAFF ONLY. CALL 706-654-3034."

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE CHAIN LINK FENCE & GATE DETAIL	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		DETAIL N <input type="checkbox"/> PS-6	FILE N <input type="checkbox"/> 18030 PS-6.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T/S <input type="checkbox"/>	



ACCESS ROAD

PAVEMENT SECTION

NORMAL DUTY

2" ASPHALTIC CONCRETE TYPE 12.55mm OR 9.5mm PER GDOT SPECIFICATION

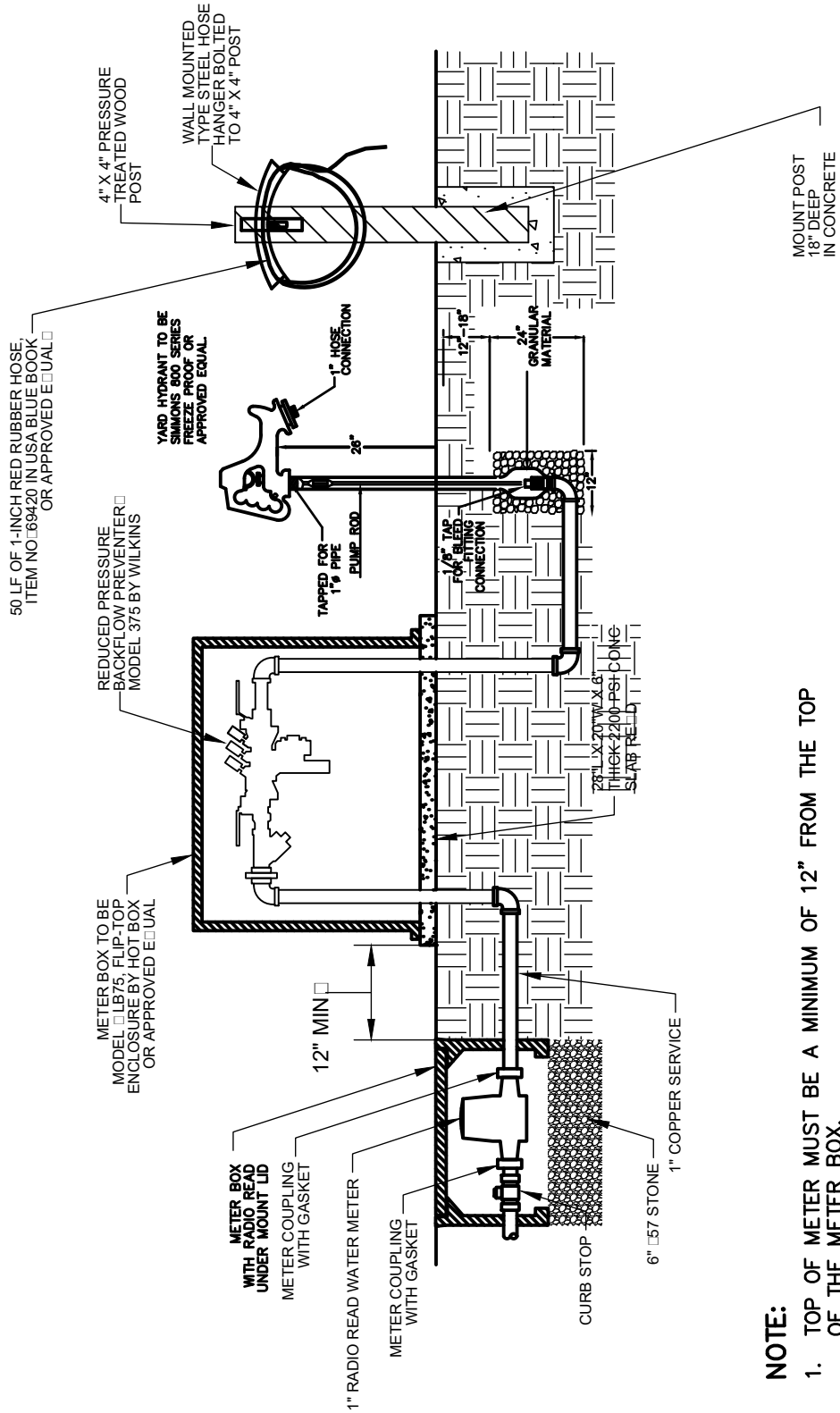
6" GRADED AGGREGATE BASE COURSE PER GDOT SPECIFICATION

GENERAL NOTES:

1. COMPACT SUBGRADE TO 95% STANDARD PROCTOR PER ASTM D698.
2. THE SUBGRADE SHALL BE PROOF ROLLED WITH A HEAVY DUMP TRUCK FILLED WITH DIRT (20 TONS MIN.), FULLY LOADED SCRAPER OR A HEAVY RUBBER TIRED ROLLER AS RECOMMENDED BY THE CITY REPRESENTATIVE. ANY AREAS SHOWING SPONGINESS OR PUMPING SHALL BE EXCAVATED TO REMOVE THE UNSUITABLE MATERIAL, REFILLED WITH SUITABLE MATERIAL, REROLLED AND TESTED.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE LIFT STATION ACCESS DRIVEWAY	DRN. BY: EMI	REV. NO.	BY	DATE
		CKD BY:			
		APPD. BY:			
		DATE: JUNE 2018			
	DETAIL No. PS-7	FILE No. 18030\PS-7.dwg	SCALE: N.T.S.		



NOTE:

1. TOP OF METER MUST BE A MINIMUM OF 12" FROM THE TOP OF THE METER BOX.
2. CONTRACTOR SHALL PROVIDE 2 EACH 25 LF 1" Ø RUBBER HOSE SECTION AT LIFT STATION

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE LIFT STATION YARD HYDRANT	DRN BY EMI	REV NO	BY	DATE
	DETAIL N PS-8	CKD BY			
		APPD BY			
		DATE SEPT 2018			
		FILE N 18030 PS-8.d	SCALE N T S		

RUBBERIZED BOOT,
SEAL AND CLAMP

EXISTING TABLES SHALL
BE MODIFIED AS REQUIRED

SLOPE

FORCE MAIN
INLET

GRAVITY SEWER
OUTLET

DEAD END MANHOLE

FORCE MAIN
INLET

FLG. BELL MOUTH
90° BEND

RUBBERIZED BOOT,
SEAL AND CLAMP

24" MAX.
12" MIN.

GRAVITY SEWER
OUTLET

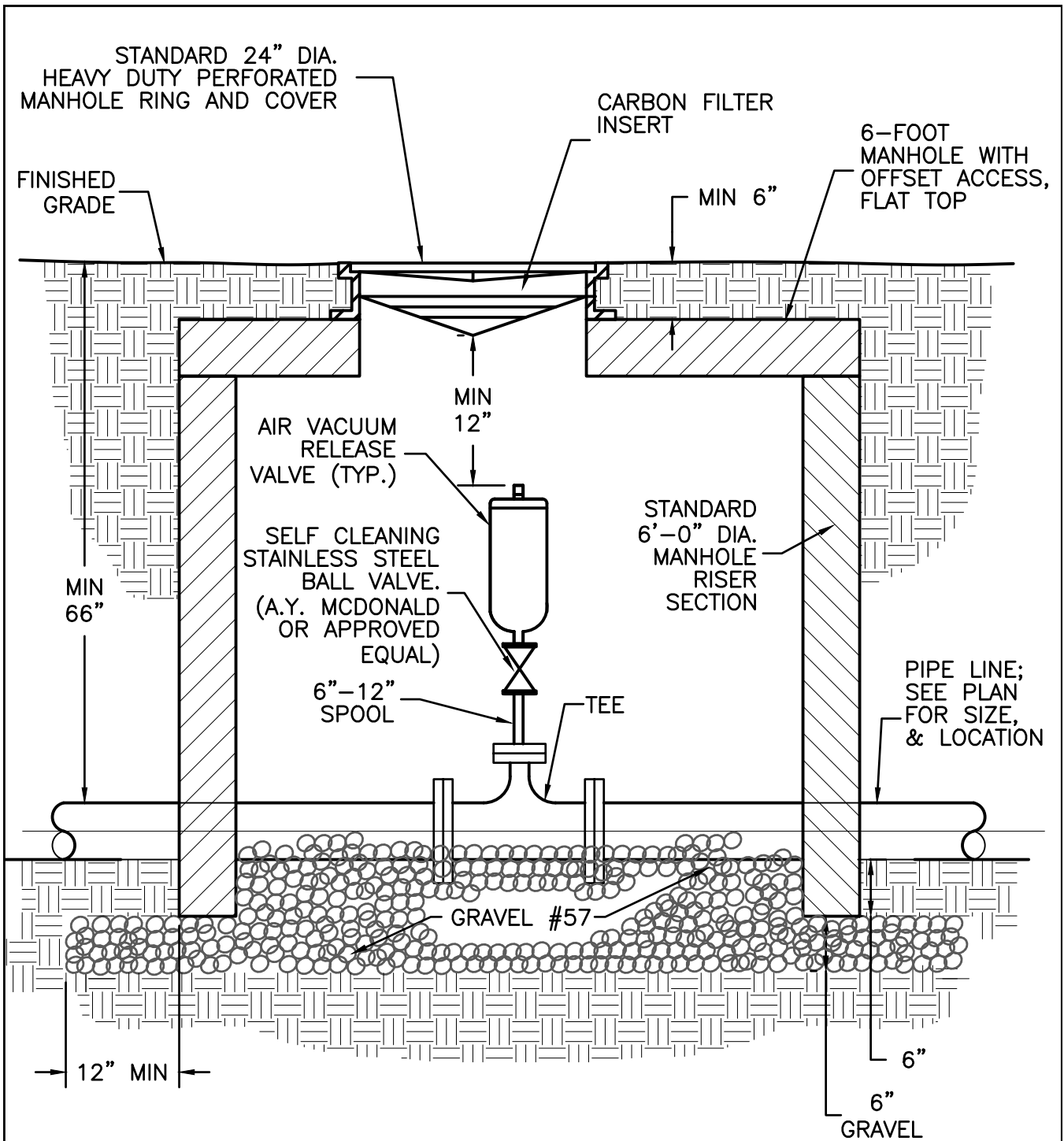
MID STREAM MANHOLE

NOTES:

1. EXISTING MANHOLES SHALL BE CORED FOR FORCE MAIN INSTALLATION. NO MANHOLE SHALL BE CORED WITHOUT CITY APPROVAL AND CITY PERSONNEL ON SITE DURING THE CORING.
2. THE MANHOLE WHERE A FORCEMAIN TIES INTO SHALL BE COATED AS PER SPECIFICATION SECTION 2602, OR 2603. THIS APPLIES TO NEW MANHOLES AS WELL AS EXISTING ONES.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE FORCE MAIN TO MANHOLE CONNECTION	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> PS-9	FILE N <input type="checkbox"/> 18030 PS-9.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T/S <input type="checkbox"/>	



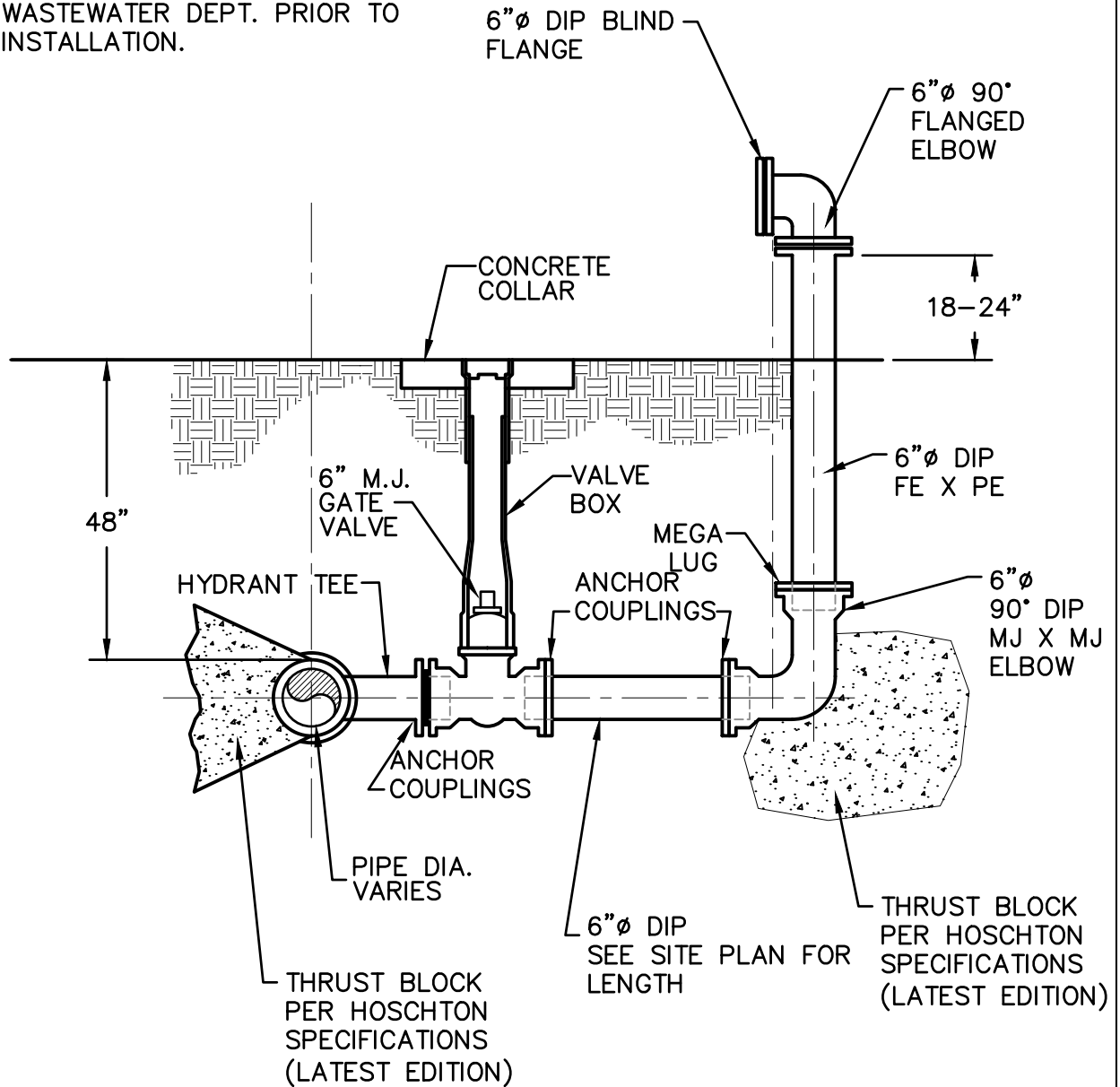
NOTE

1. SEE SPECIFICATIONS SECTION 02732 FOR TYPE AND SIZE OF AIR/VACUUM VALVE FOR SEWER FORCE MAINS.
2. CARBON FILTER INSERT SHALL BE "SWEETSTREET" MANHOLE ODOR CONTROL MODULE BY CONTINENTAL CARBON GROUP.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE AIR/VACUUM RELEASE VALVE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> PS-10	FILE N <input type="checkbox"/> 18030 PS-10.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T <input type="checkbox"/> S <input type="checkbox"/>	

NOTE: DIRECTION/ORIENTATION OF BLIND FLANGE FACE TO BE DETERMINED BY SITE LAY OUT AND APPROVED BY CITY WASTEWATER DEPT. PRIOR TO INSTALLATION.

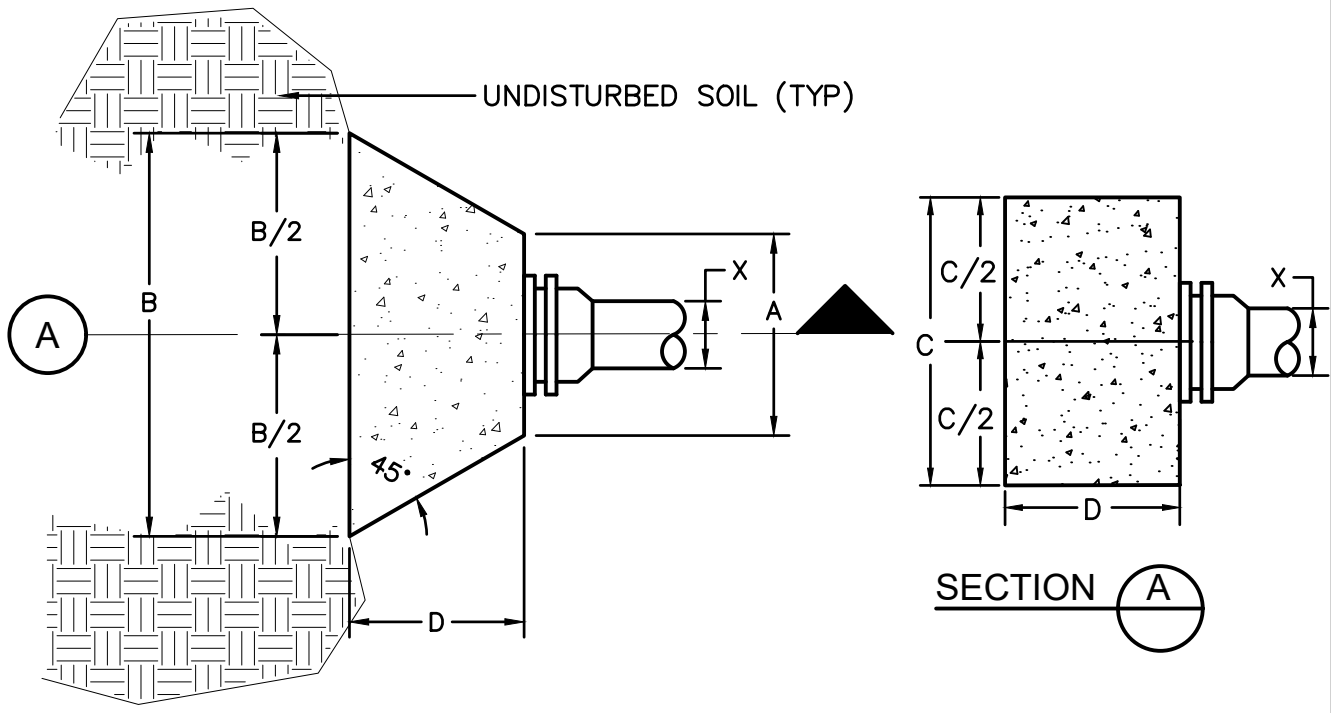


NOTE: CONTRACTOR TO VERIFY THAT FLANGE IS COMPATIBLE WITH CITY'S PORTABLE PUMP STATION DISCHARGE PIPING

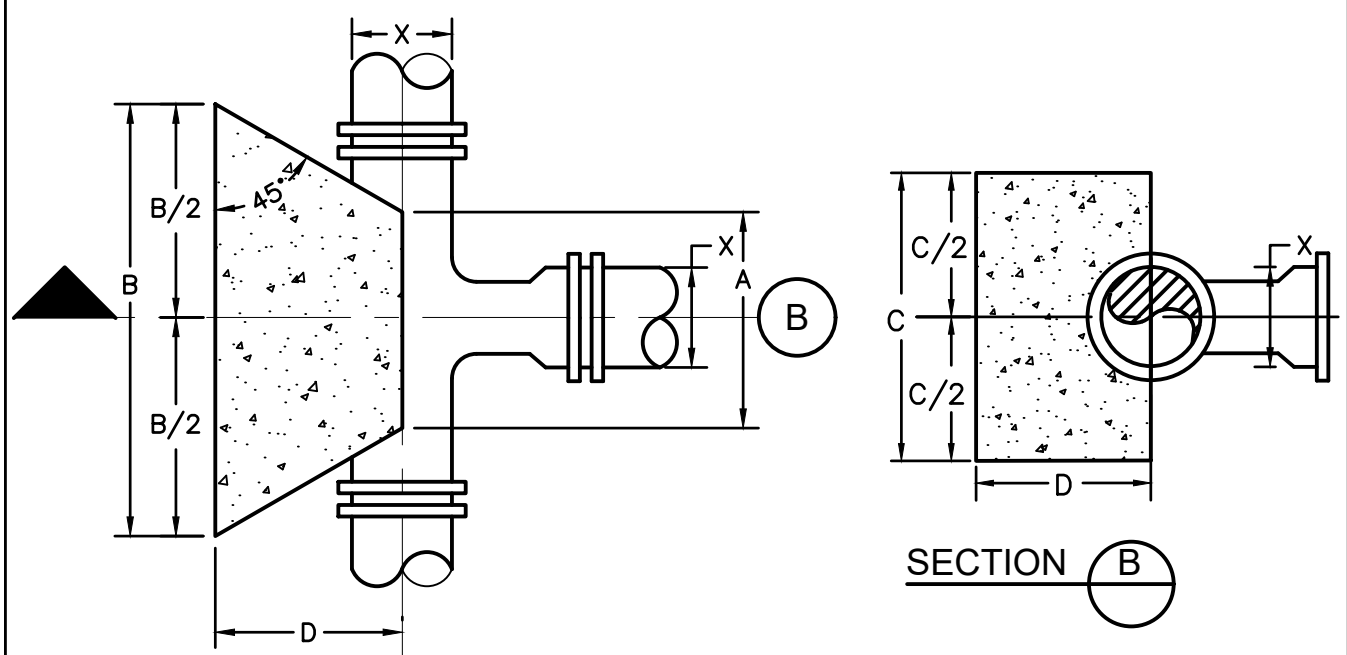
ALL DIP SHALL HAVE INTERIOR COATING AS PER SPECIFICATION 18000.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE BYPASS CONNECTION	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		DETAIL N <input type="checkbox"/> PS-11	FILE N <input type="checkbox"/> 18030 PS-11.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N.T.S <input type="checkbox"/>	



UNBALANCED TEE OR PLUG - PLAN



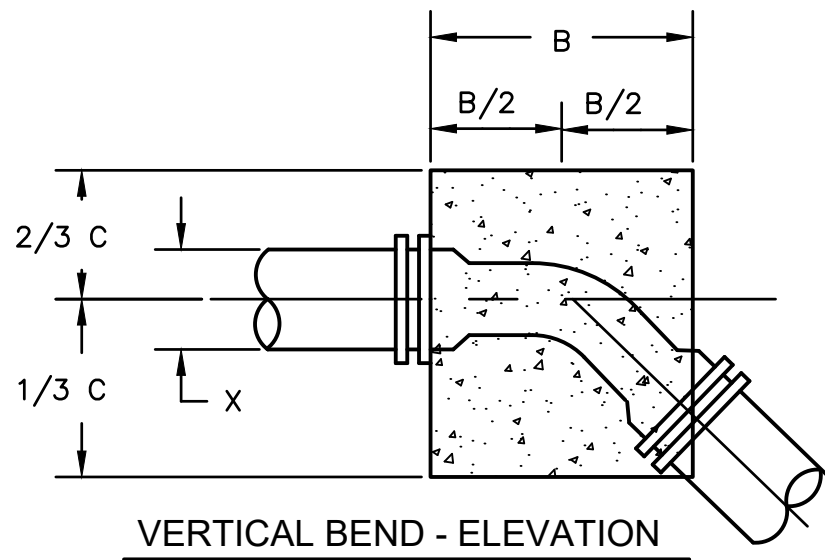
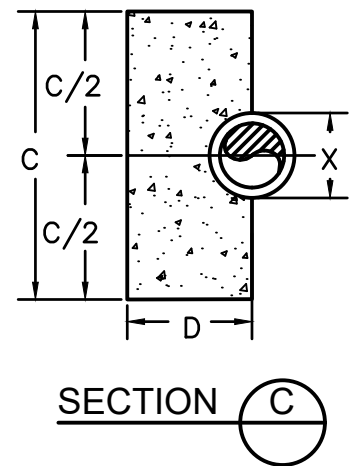
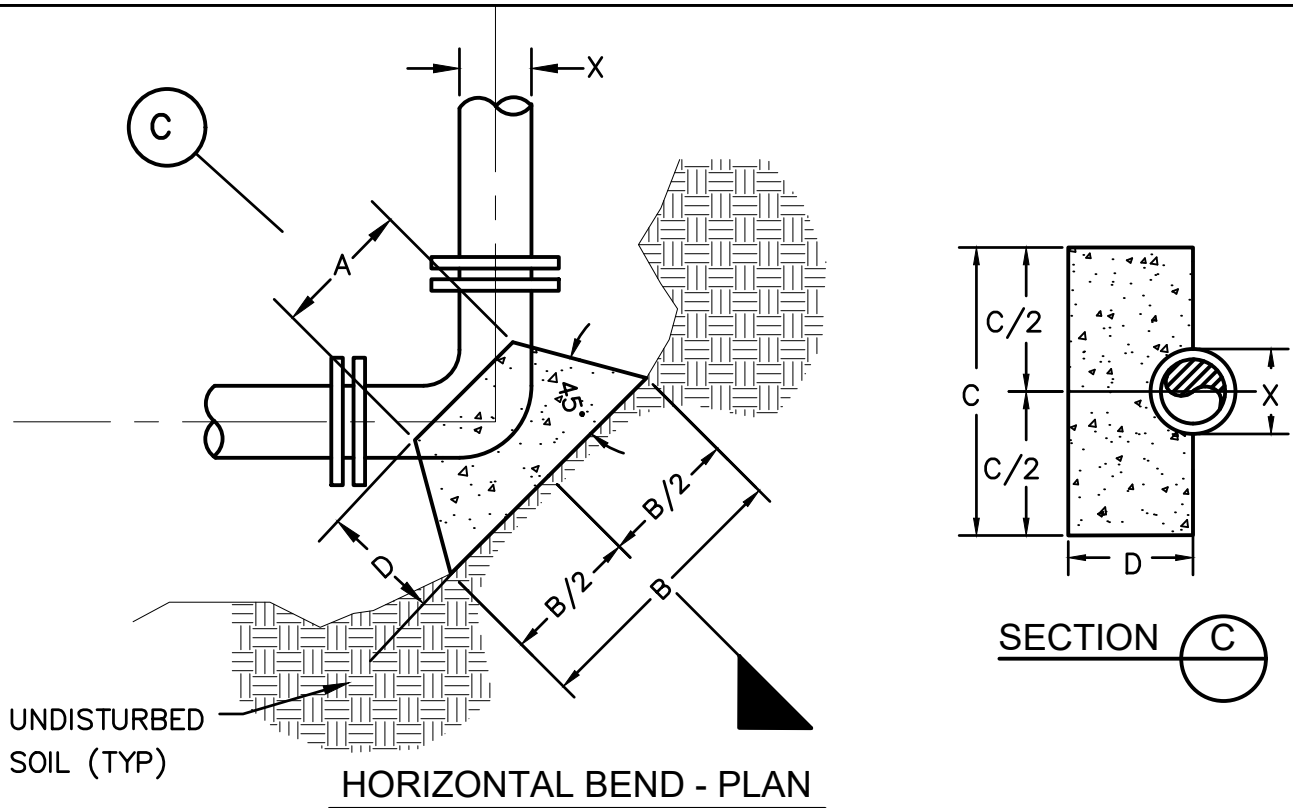
TEE - PLAN

NOTE:
MEGALUGS OR MJ-FIELD LOK WITH BLOCKING
REQUIRED ON ALL FITTINGS. SHEET 1 of 4

NOTE:
DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE
TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE
CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION).

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	THRUST BLOCKING DIMENSIONS (200 psi LINE PRESSURE)	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> W-1	FILE N <input type="checkbox"/> 180301W-4 <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T/S <input type="checkbox"/>	



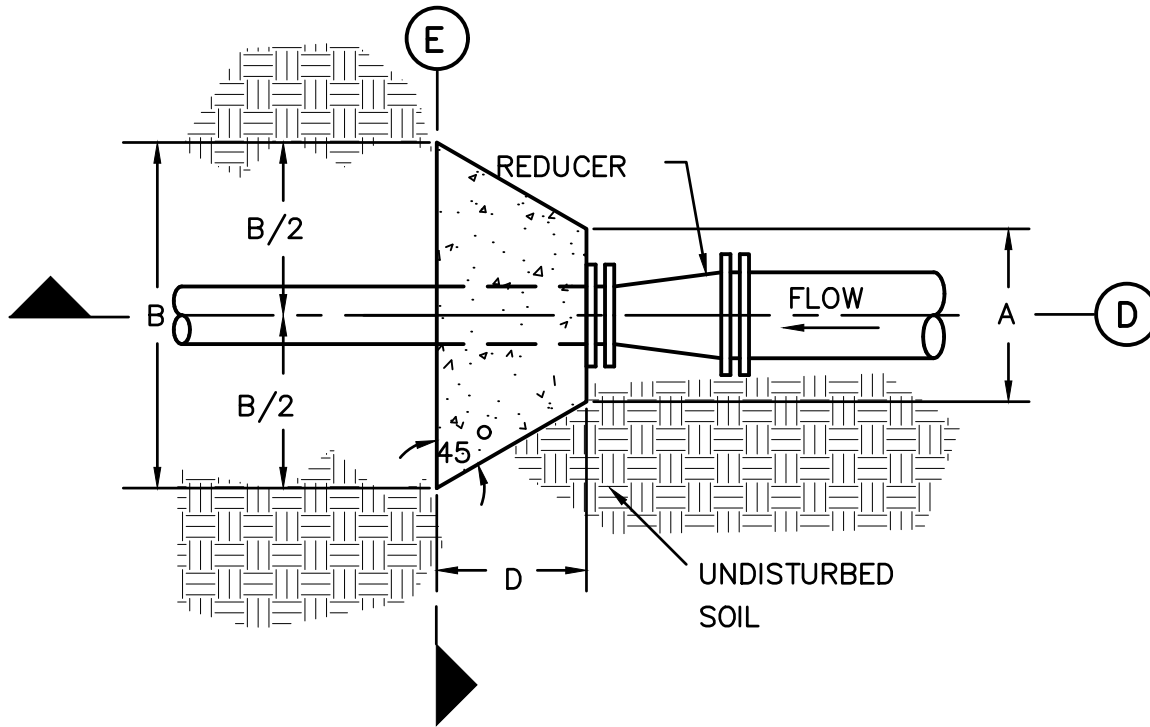
NOTE:
MEGALUGS OR MJ-FIELD LOK WITH BLOCKING
REQUIRED ON ALL FITTINGS.

SHEET 2 of 4

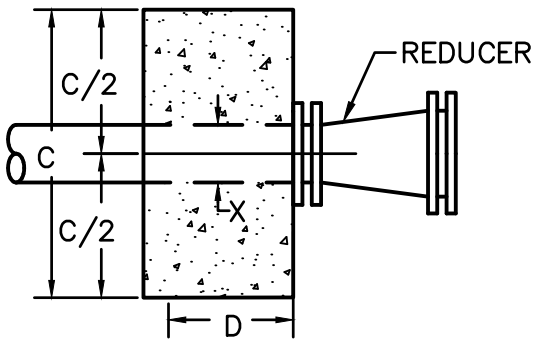
NOTE:
DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE
TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE
CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION).

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

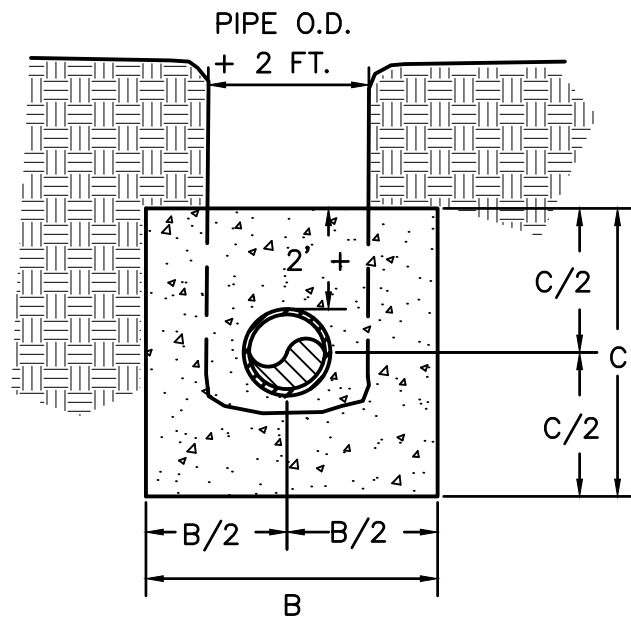
JOB TITLE	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
STANDARD DETAIL	THRUST BLOCKING DIMENSIONS (200 psi LINE PRESSURE)	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
	DETAIL No. W-2	FILE NO <input type="checkbox"/> 180301W-4 <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T <input type="checkbox"/> S <input type="checkbox"/>		



REDUCER - PLAN



SECTION D



SECTION E

NOTE:
MEGALUGS OR MJ-FIELD LOK WITH BLOCKING
REQUIRED ON ALL FITTINGS.

SHEET 3 of 4

NOTE:
DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE
TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE
CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION).

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	THRUST BLOCKING DIMENSIONS (200 psi LINE PRESSURE)	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL No. W-3	FILE NO <input type="checkbox"/> 180301W-4 <input type="checkbox"/>	SCALE <input type="checkbox"/> N/T <input type="checkbox"/> S <input type="checkbox"/>	

Line Pressure = 200 PSI Soil Pressure = 2000 PSF				
Pipe Size X	A	B	C	D
90 DEGREE BEND				
* 12"	1'-4"	4'-6"	3'-6"	2'-2"
* 10"	1'-3"	3'-4"	3'-4"	1'-4"
8"	1'-0"	3'-4"	2'-3"	1'-8"
6"	0'-11"	3'-4"	2'-3"	1'-6"
45 DEGREE BEND				
* 12"	1'-4"	3'-9"	3'-6"	1'-8"
10"	1'-3"	4'-0"	2'-3"	1'-11"
8"	1'-0"	3'-4"	2'-3"	1'-2"
6"	0'-11"	2'-2"	2'-0"	1'-0"

Line Pressure = 200 PSI Soil Pressure = 2000 PSF				
Pipe Size X	A	B	C	D
11 1/4 DEGREE BEND				
12"	1'-2"	2'-0"	2'-0"	1'-0"
10"	1'-0"	1'-8"	1'-8"	1'-0"
8"	0'-10"	1'-5"	1'-5"	1'-0"
6"	0'-9"	1'-0"	1'-0"	1'-0"
22 1/2 DEGREE BEND				
12"	1'-2"	3'-7"	2'-3"	1'-3"
10"	1'-0"	2'-7"	2'-3"	1'-0"
8"	0'-10"	1'-8"	2'-3"	1'-0"
6"	0'-9"	1'-9"	1'-3"	1'-0"

Line Pressure = 200 PSI Soil Pressure = 2000 PSF				
Pipe Size X	A	B	C	D
Unbalanced Tee & Plug				
* 12"	1'-8"	6'-0"	3'-6"	2'-4"
* 10"	1'-6"	4'-8"	3'-6"	1'-9"
8"	1'-4"	4'-4"	2'-3"	1'-8"
6"	1'-2"	2'-3"	2'-7"	1'-0"
Tee				
* 12"	1'-4"	6'-0"	3'-6"	2'-4"
* 10"	1'-3"	4'-8"	3'-6"	1'-9"
8"	1'-0"	4'-4"	2'-3"	1'-8"
6"	0'-11"	2'-3"	2'-7"	1'-3"

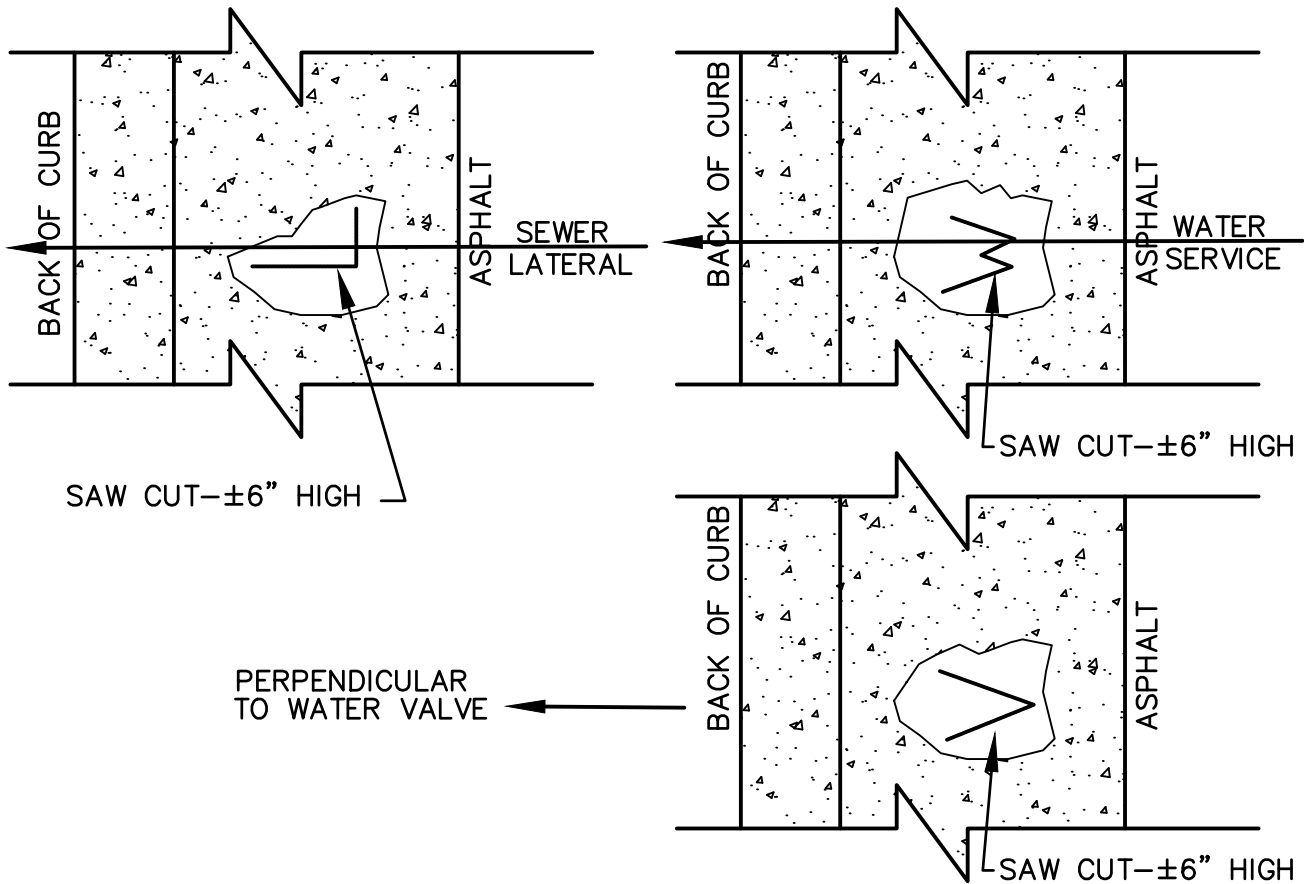
NOTES :

1. BLOCKING SHALL BE 3000psi CONCRETE ; "SACKCRETE" WILL NOT BE ALLOWED.
- 2.*THE WATER LINE MUST BE LOWERED IN ORDER TO HAVE FIVE FEET (5') OF COVER AT THE BEND, TEE, REDUCER, OR PLUG AT ALL LOCATIONS WHERE THESE FITTINGS MAY BE UTILIZED.
3. DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE TESTS IN ACCORDANCE WITH SECTION 02799-INSPECTION AND TESTING, OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION).
4. MEGALUGS OR MJ-FIELD LOK WITH BLOCKING REQUIRED ON ALL FITTINGS.

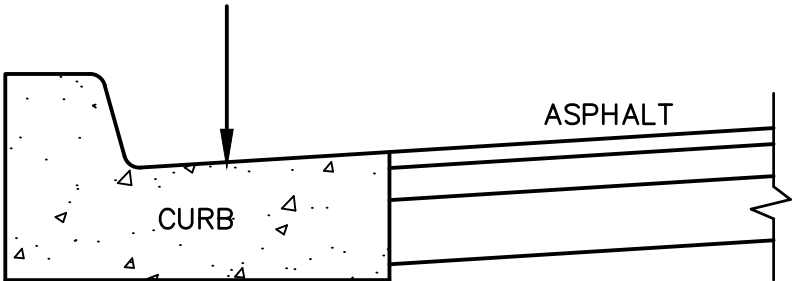
SHEET 4 of 4

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	THRUST BLOCKING DIMENSIONS (200 psi LINE PRESSURE)	CKD BY <input type="checkbox"/>			
	DETAIL No. W-4	APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		FILE NO <input type="checkbox"/> 180301W-4.dwg		SCALE <input type="checkbox"/> N.T.S.	



SAW-CUT LOCATION
 LETTER "L" OVER SEWER LATERAL—SPRAY PAINTED GREEN
 LETTER "W" OVER WATER SERVICE— SPRAY PAINTED BLUE
 LETTER "V" ADJACENT TO WATER VALVE—SPRAY PAINTED BLUE



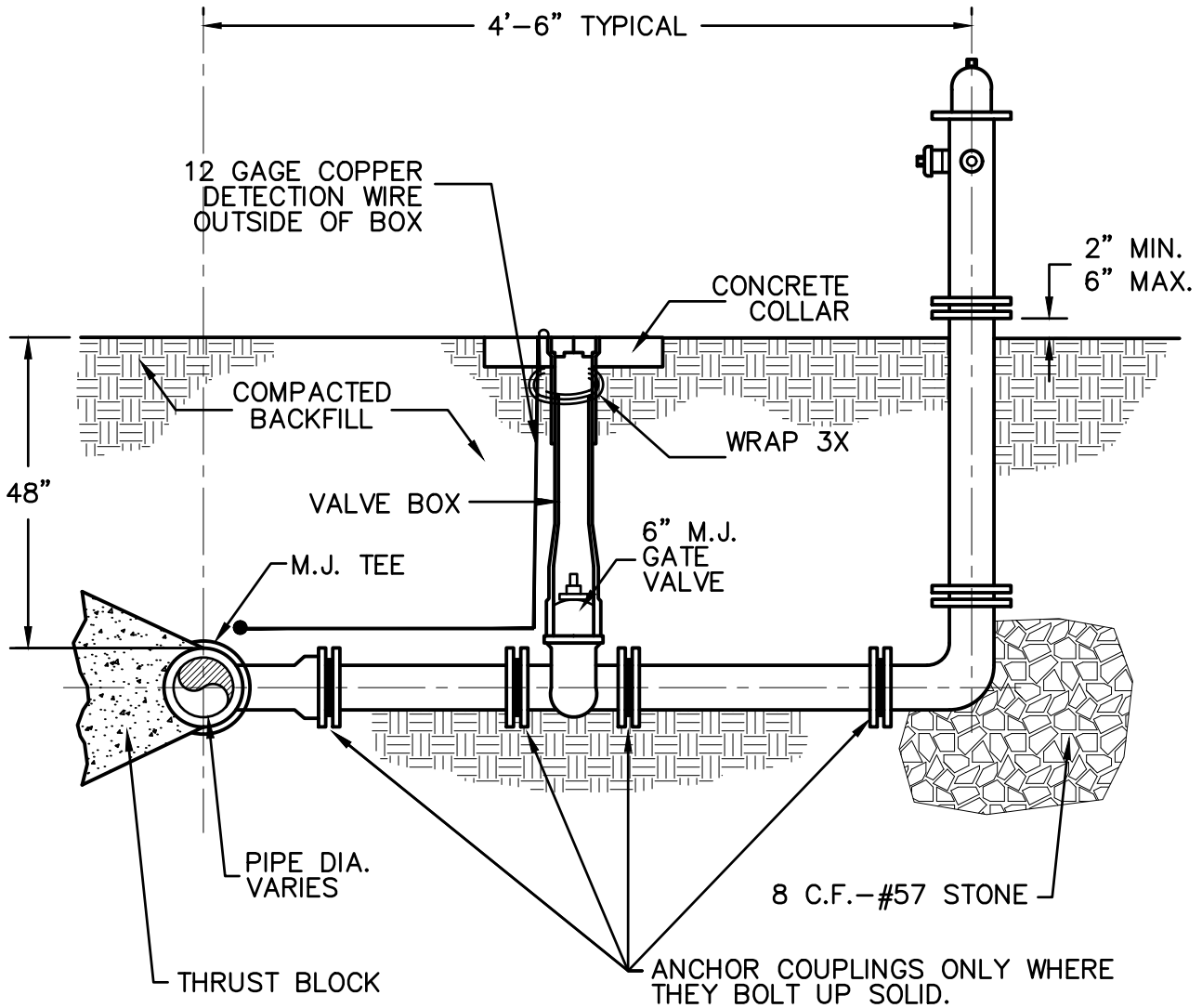
NOTE:

1. BEFORE ANY WATER LINE IS INSTALLED, THE ENTIRE WIDTH OF THE R/W SHALL BE ROUGH GRADED AND ALL CONCRETE CURBING INSTALLED AT GRADES.
2. ALL WATERLINES AND SEWER FORCEMAINS SHALL BE INSTALLED AT A MINIMUM 3- FEET BELOW THE ELEVATION OF THE FINISHED GRADE.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE SAW CUT IN CURB	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		FILE NO <input type="checkbox"/> 18030 W-5.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>		

3-WAY FIRE HYDRANT PER SECTION 02645

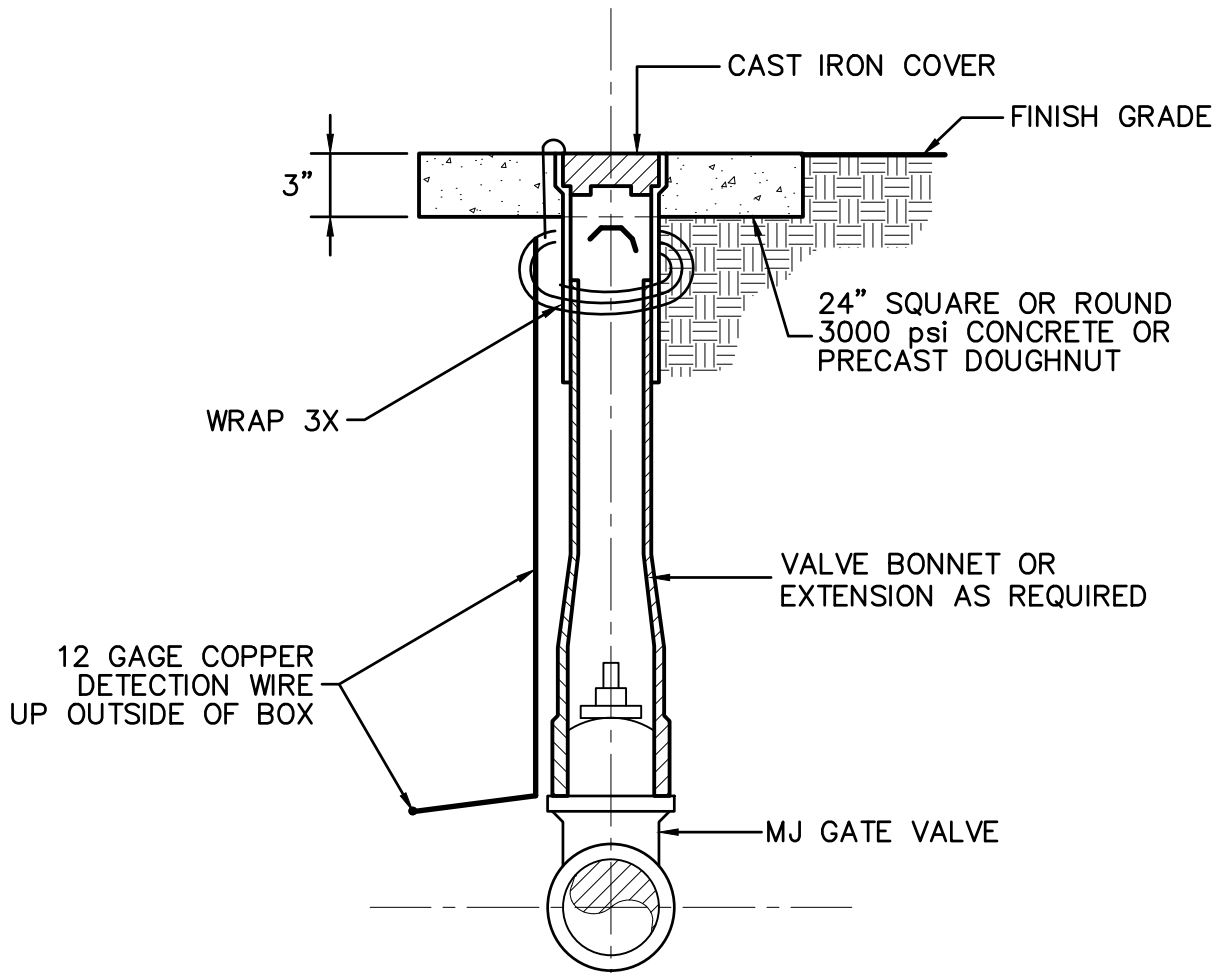


NOTE

- 1 INSTALL NON-METALLIC TAPE APPROXIMATELY 24" ABOVE PIPE
- 2 NO FIRE HYDRANTS SHALL BE INSTALLED IN CONCRETE FINISHED SURFACES OR IN SIDEWALK

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE FIRE HYDRANT ASSEMBLY	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>	A	EMI	05/01/18
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> W-7	FILE N <input type="checkbox"/> 18030 W-7.d	SCALE <input type="checkbox"/> N.T.S	



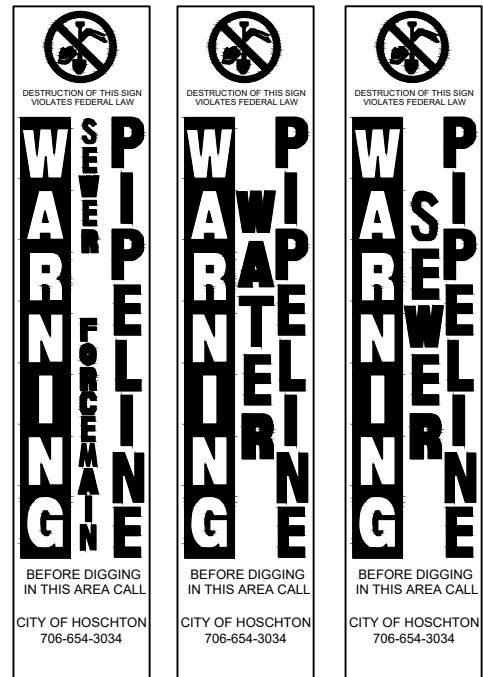
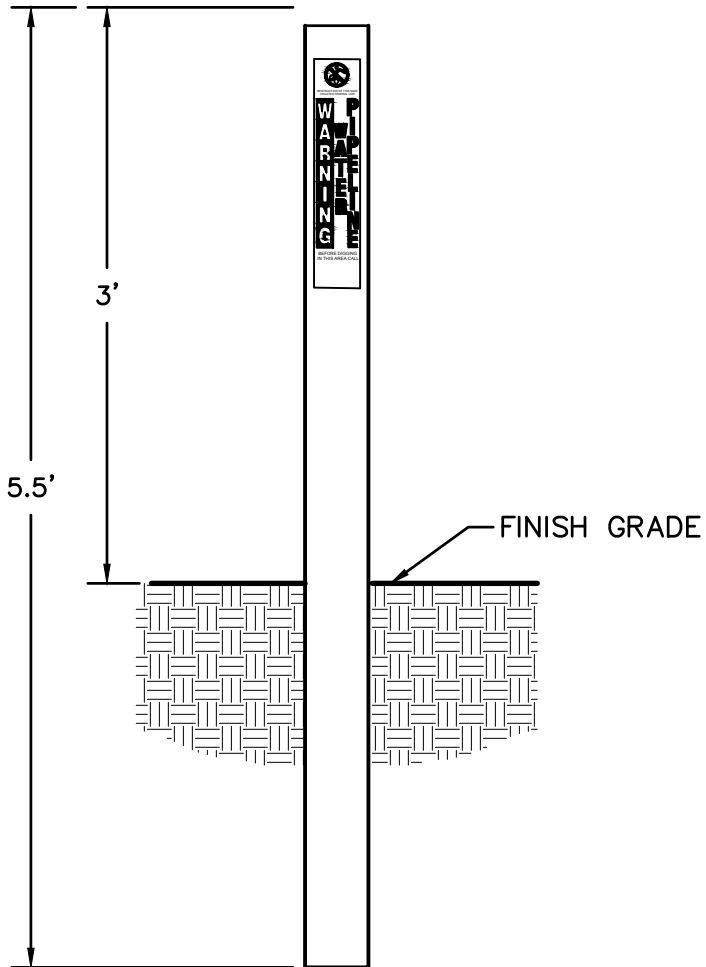
NOTES:

1. CAST IRON COVER TO BE STAMPED "WATER" FOR WATERLINE VALVES, AND "SEWER" FOR FORCEMAIN VALVES
2. INSTALL NON-METALLIC TAPE APPROXIMATELY 24" ABOVE PIPE
3. DEBRIS CAP MUST BE INSTALLED AT TOP OF VALVE BOX.
4. TRENCH ADAPTOR MAY BE INSTALLED IN PLACE OF VALVE BOX AND DEBRIS CAP. SEE SECTION 2660.
5. NO VALVE SHALL BE INSTALLED IN CONCRETE FINISHED SURFACE OR IN SIDEWALK.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	VALVE BOX	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		DETAIL N <input type="checkbox"/> W-8	FILE N <input type="checkbox"/> 180301W-8.dwg	SCALE <input type="checkbox"/> N.T.S.	

DECAL TO BE



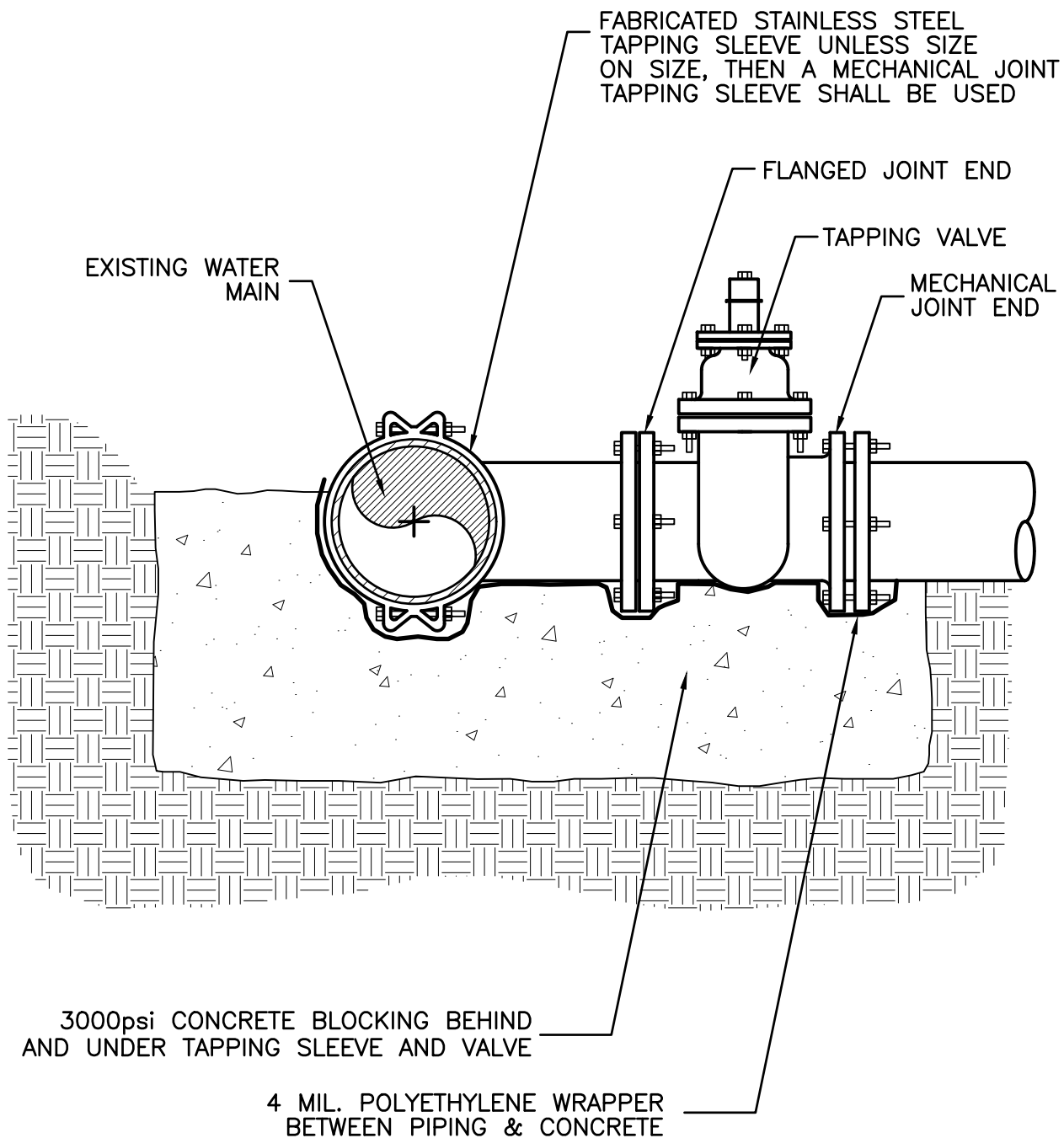
CITY APPROVED DECALS

NOTES:

1. VALVE MARKER SHALL BE RHINO HYBRID FIBERGLASS 1 RAIL OR APPROVED EQUAL WITH DECAL ON ALL SIDES. SEE SPECIFICATION 02660.
2. VALVE MARKER SHALL BE BLUE FOR WATER VALVES, GREEN FOR FORCEMAIN VALVES, GREEN FOR SEWER.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE VALVE MARKER	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
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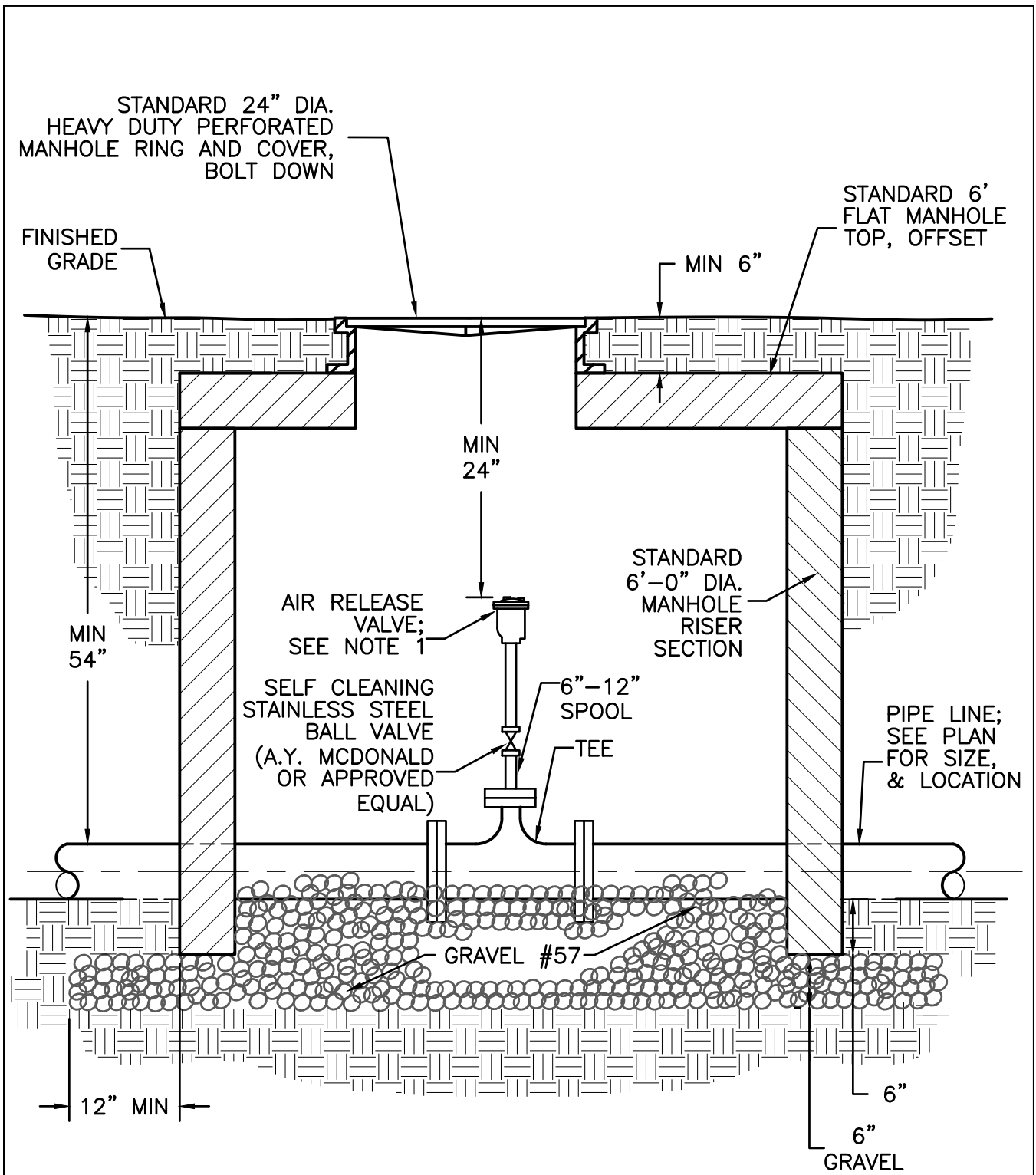


NOTES:

1. TAPPING SLEEVE TO BE PER STANDARD SPECIFICATIONS SECTION 2660.
2. DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE TESTS IN ACCORDANCE WITH SECTION 02799—INSPECTION AND TESTING, OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION).

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE TAPPING SLEEVE AND VALVE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
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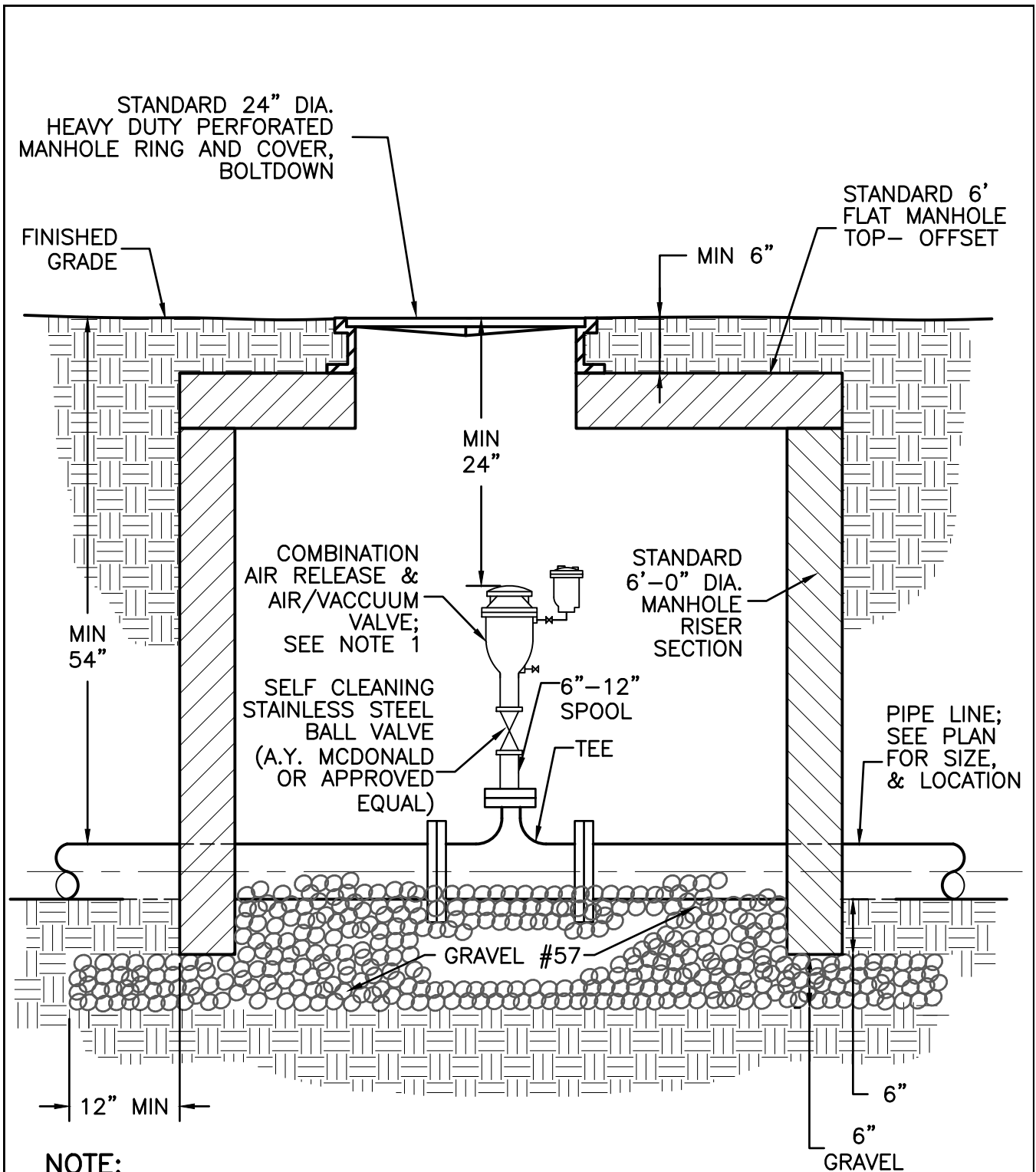


NOTE:

1. SEE SPECIFICATIONS SECTIONS 02660 FOR TYPE AND SIZE OF AIR RELEASE VALVE.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE AIR RELEASE VALVE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
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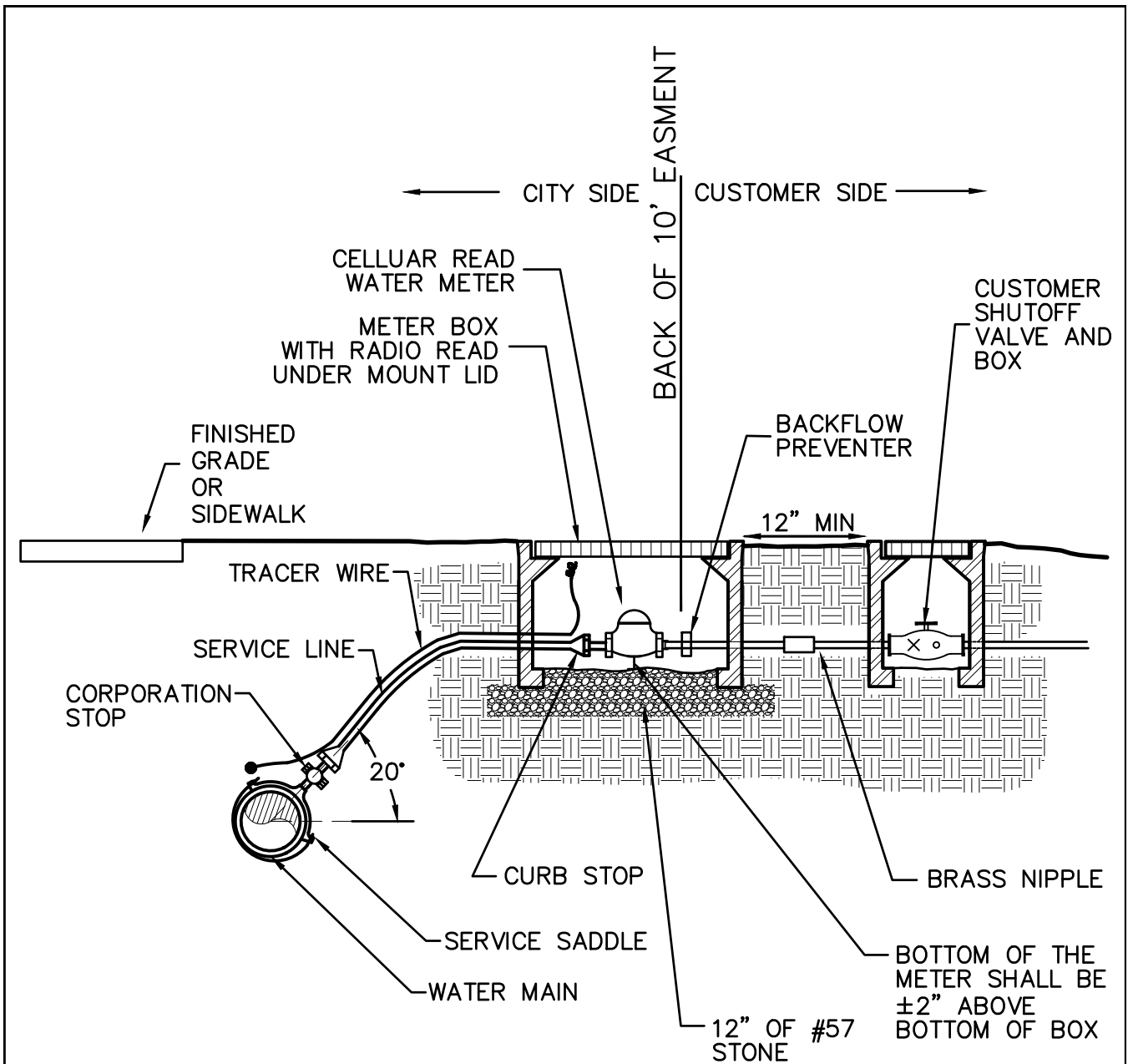


NOTE:

1. SEE SPECIFICATIONS SECTIONS 02660 FOR TYPE AND SIZE OF AIR RELEASE VALVE AND AIR/VACUUM VALVE.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	COMBINATION AIR RELEASE AND AIR VACUUM VALVE	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		DETAIL N <input type="checkbox"/> W-13	FILE N <input type="checkbox"/> 18030\W-13.d	SCALE <input type="checkbox"/> N.T.S.	

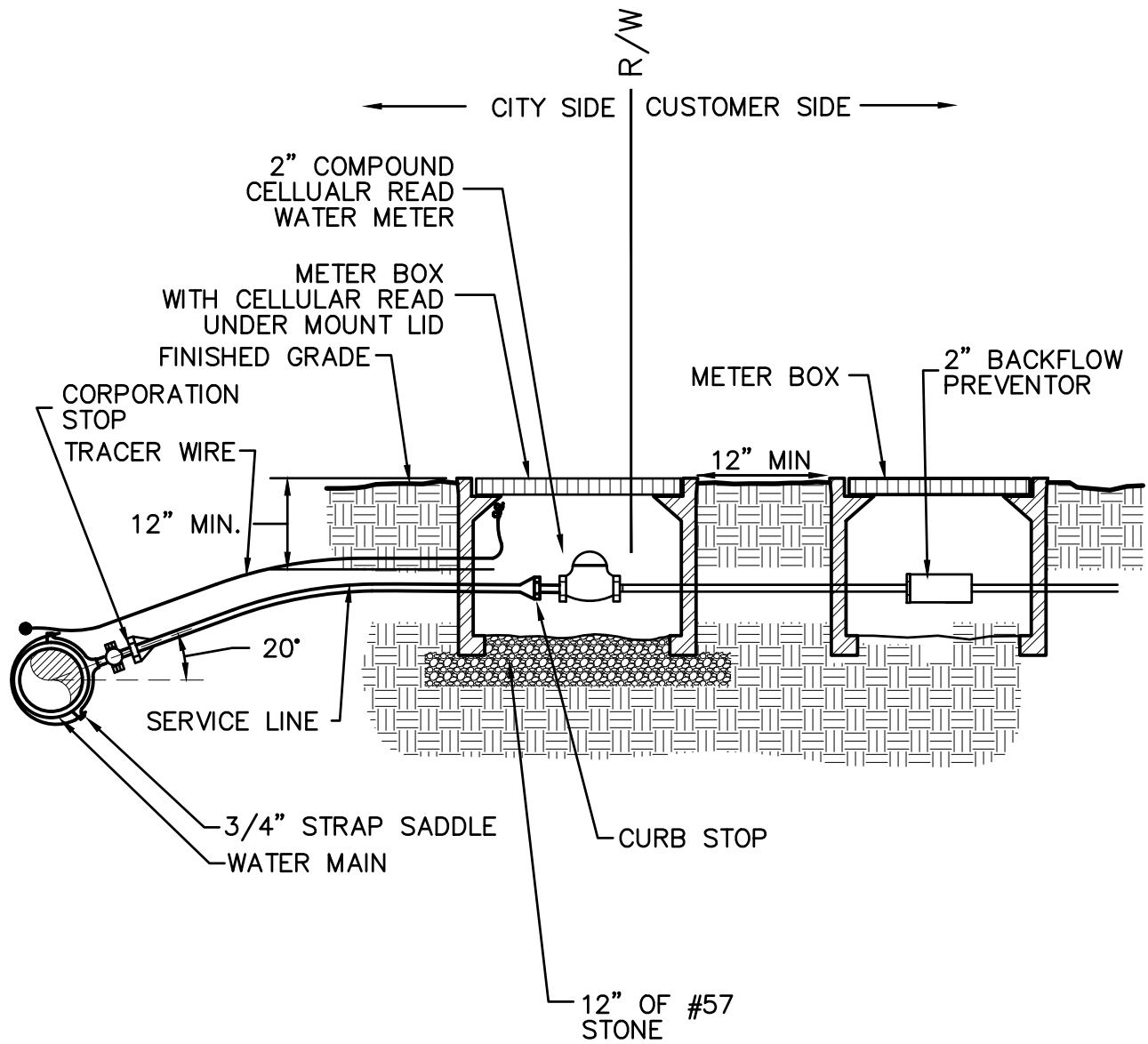


NOTE:

1. TOP OF METER MUST BE A MINIMUM OF 12" FROM THE TOP OF THE METER BOX.
2. CURB STOP SHALL BE LOCATED SO VALVE IS ACCESSIBLE AND CAN BE OPERATED.
3. SEE SPECIFICATION 02665 FOR SPECIFIC REQUIREMENTS.
4. METERS SHALL BE SET BETWEEN SIDEWALKS AND HOUSE, AND IN BACK OF 10' UTILITY EASEMENTS WHERE APPLICABLE .

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE 1 -INCH AND SMALLER SERVICE CONNECTION (WITH METER)	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		DETAIL N <input type="checkbox"/> W-14	FILE N <input type="checkbox"/> 18030\W-14.d		SCALE <input type="checkbox"/> N.T.S

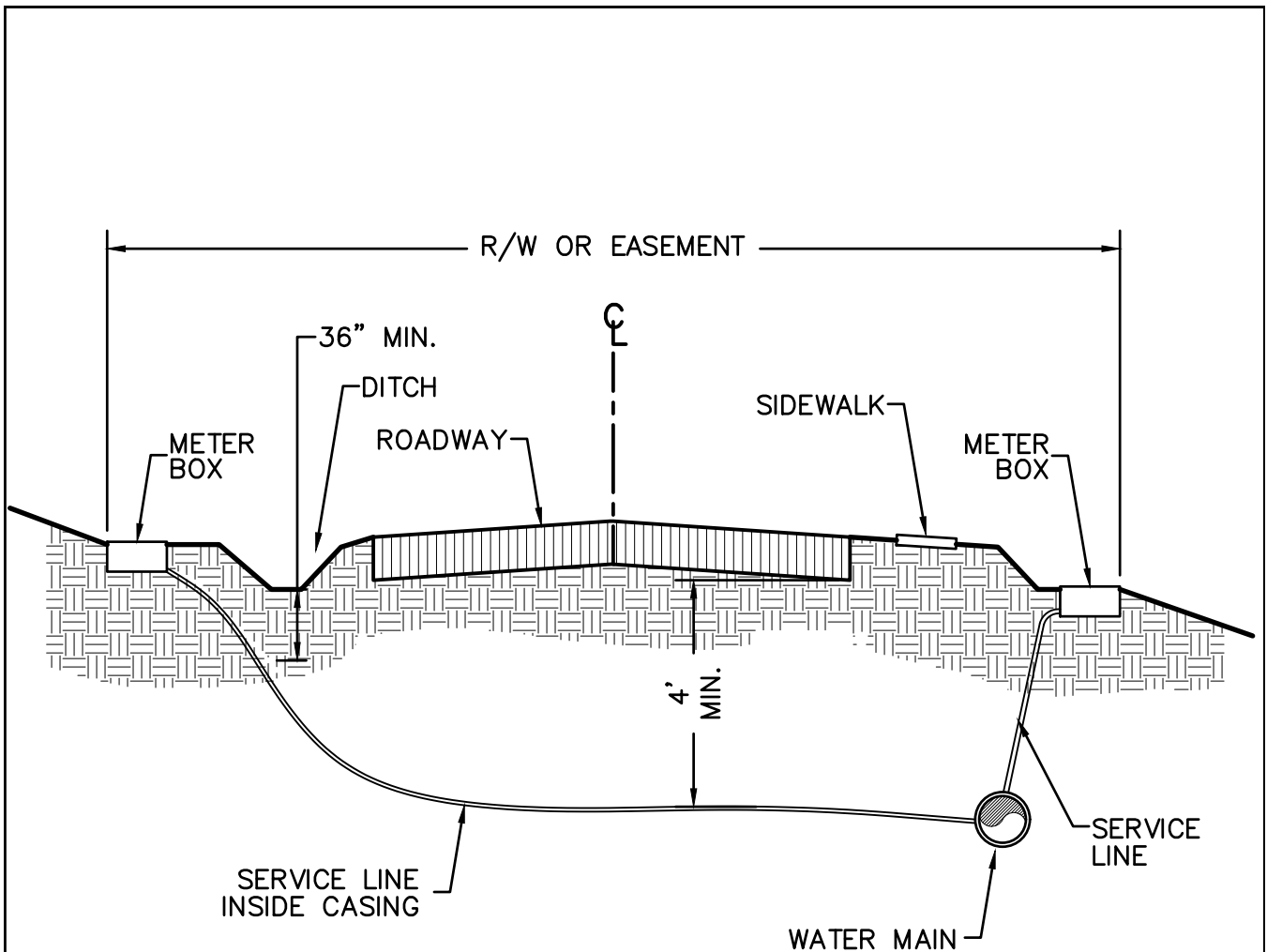


NOTE:

1. TOP OF METER MUST BE A MINIMUM OF 12" FROM THE TOP OF THE METER BOX.
2. CURB STOP SHALL BE LOCATED SO VALVE IS ACCESSIBLE AND CAN BE OPERATED.
3. SEE SPECIFICATION 02665 FOR SPECIFIC REQUIREMENTS.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	2-INCH SERVICE CONNECTION (WITH METER)	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		DETAIL N <input type="checkbox"/> W-15	FILE N <input type="checkbox"/> 18030\W-15.d	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>	



NOTES:

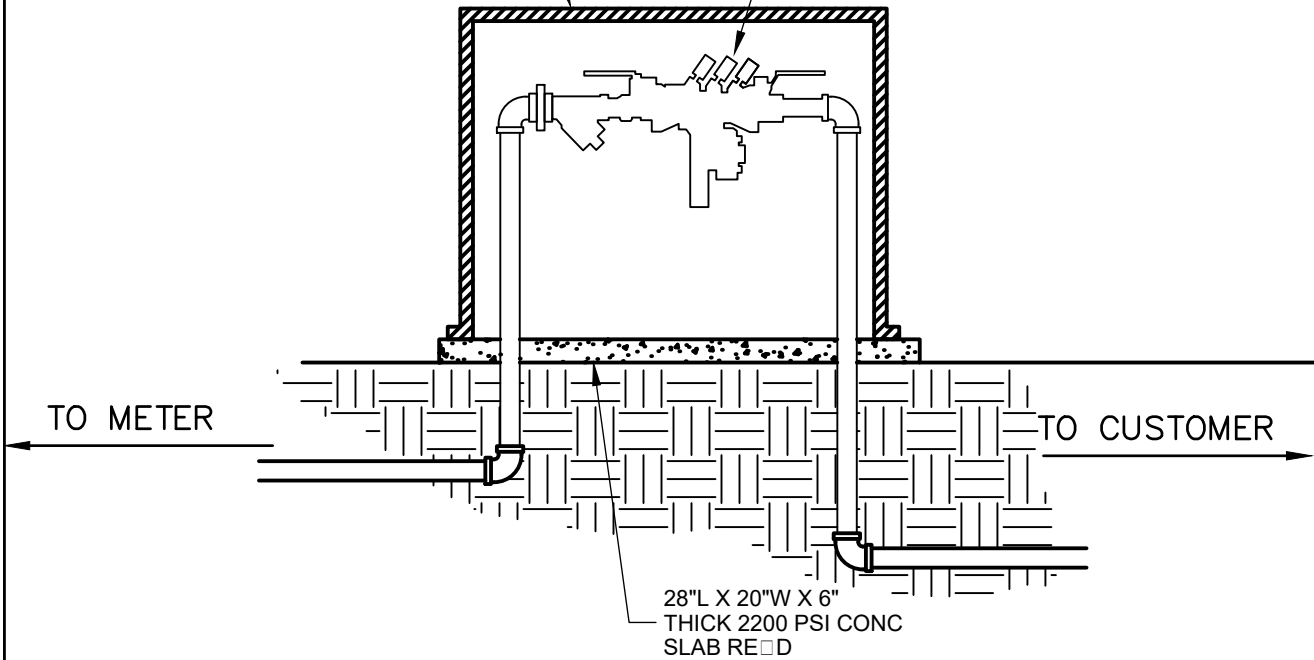
1. METER BOXES TO BE PLACED ON BACK SIDE OF DITCH.
2. ALL SERVICE LINES ARE TO BE PLACED OVER EXISTING GAS LINES.
3. SEE SPECIFICATION 02665 FOR SPECIFIC REQUIREMENTS.
4. DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE TESTS IN ACCORDANCE WITH SECTION 02799—INSPECTION AND TESTING, OF THE CITY OF HOSCHTON STANDARD SPECIFICATIONS (LATEST EDITION).

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE SERVICE INSTALLATION (PAVED ROADWAY)	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> SEPT 2018			
		DETAIL N <input type="checkbox"/> W-17	FILE N <input type="checkbox"/> 18030\W-17.dwg	SCALE <input type="checkbox"/> N.T.S.	

METER BOX TO BE
MODEL □LB75, FLIP-TOP
ENCLOSURE BY HOT BOX
OR APPROVED E□UAL

REDUCED PRESSURE
BACKFLOW PREVENTER□
MODEL 375 BY WILKINS

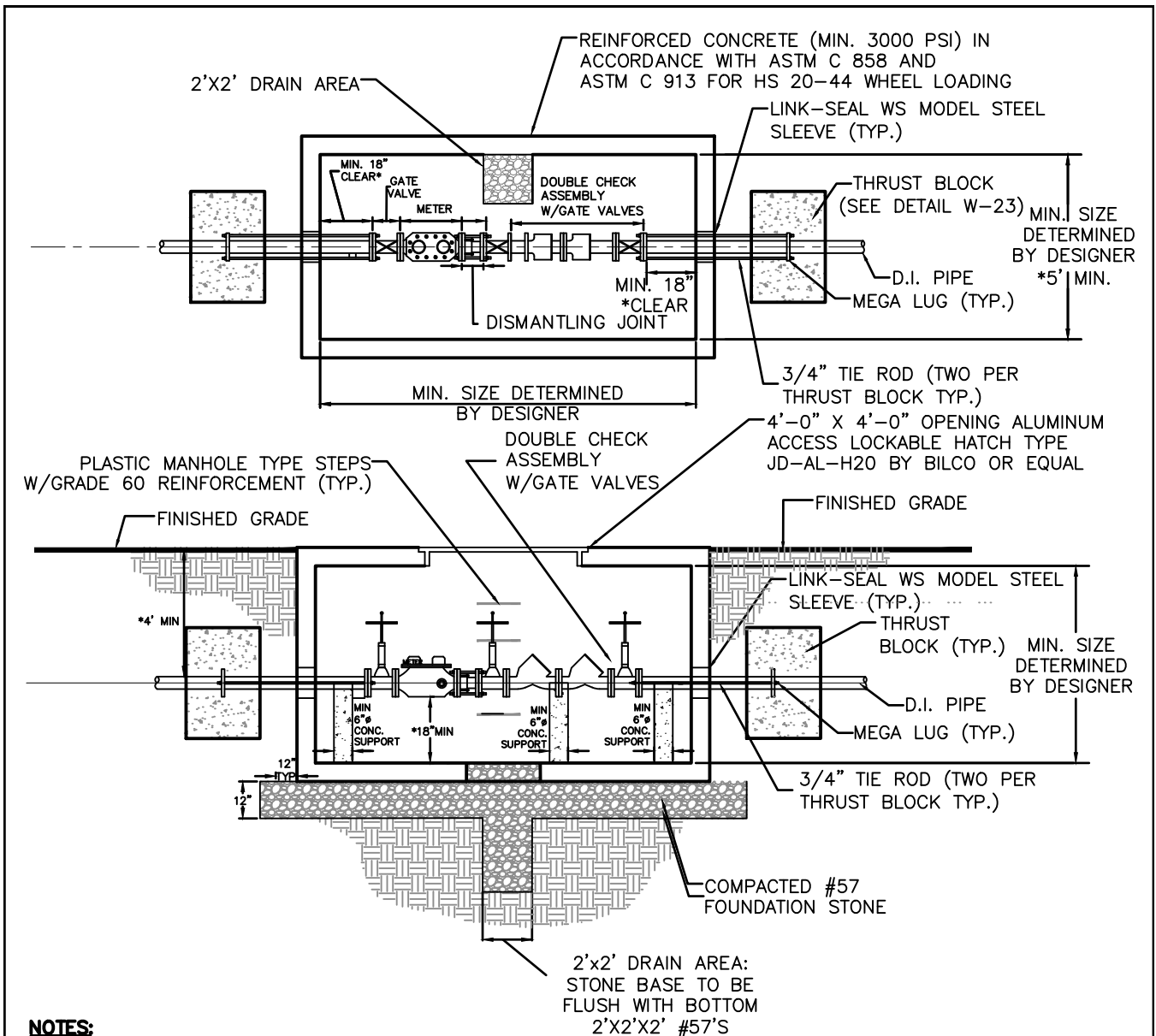


NOTES:

1. THE BACKFLOW PREVENTER ASSEMBLY SHALL BE OF THE REDUCED PRESSURE ZONE TYPE.
2. SHUT-OFF VALVE W/DRAIN TO BE INSTALLED IN METER BOX, W/ 2 C.F. CRUSHED STONE UNDERNEATH
3. ALL PIPES AND FITTINGS 2" THROUGH 4" SHALL BE BRASS.
ALL PIPE AND FITTINGS LARGER THAN 4" SHALL BE D.I.P. CL 350 MIN.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE RPZ BACKFLOW PREVENTER	DRN□BY□ EMI	REV□NO□	BY	DATE
		CKD BY□			
		APPD□BY□			
		DATE□JUNE 2018			
		DETAIL N□□ W-19	FILE N□□18030\W-19\d□□	SCALE□N□T□S□	

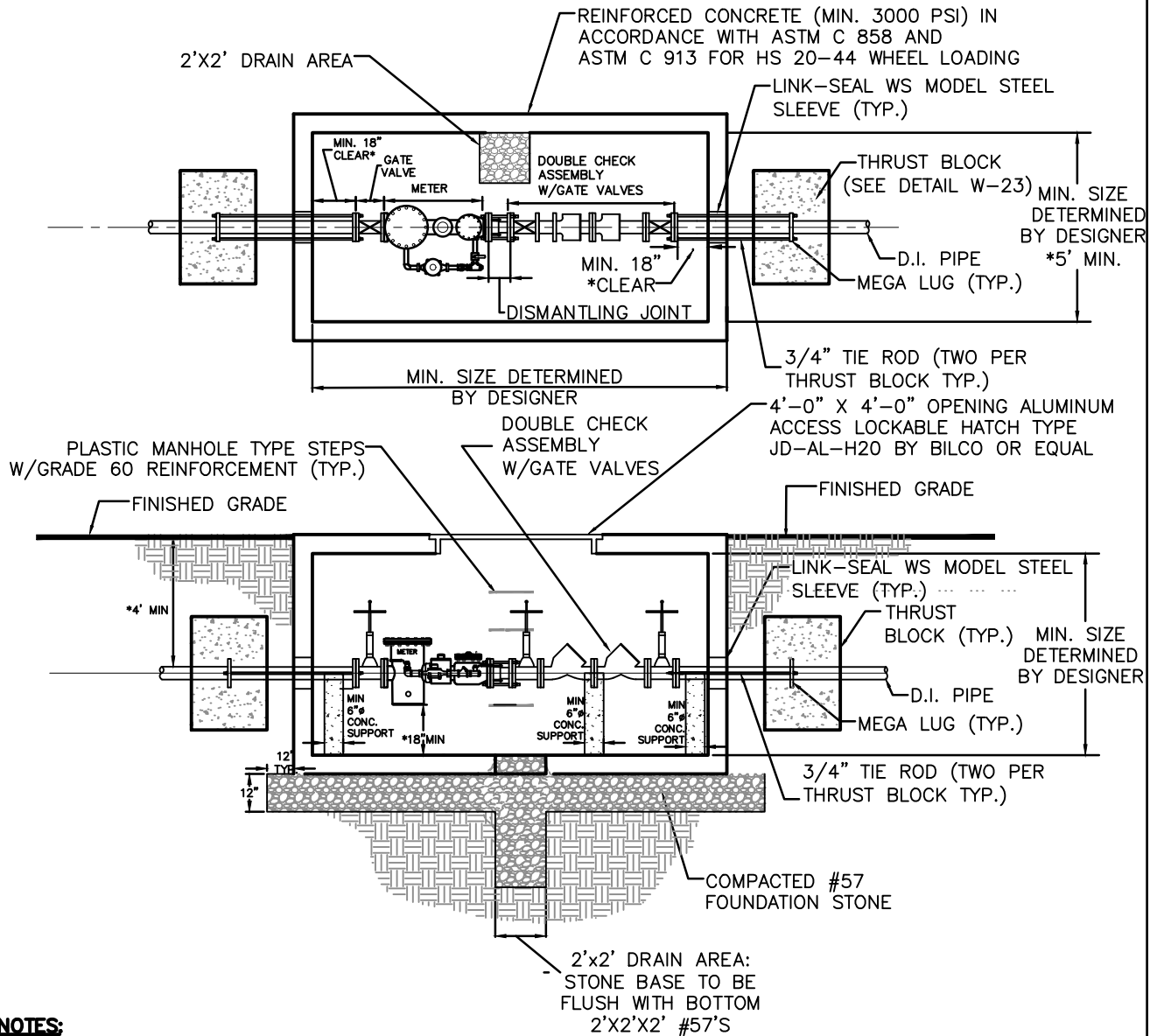


NOTES:

1. ALL PIPING INSIDE VAULT SHALL BE FLANGED.
2. MAINLINE METER SHALL BE BADGER RECORDALL COMPOUND WITH BRONZE STRAINER- SIZE TO BE COORDINATED WITH CITY, METER SHALL FEATURE REMOTE READING SYSTEM - WITH ORION CELLULAR LTE ENDPOINT. METER MUST READ IN US GALLONS. SHOP DRAWING MUST BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO INSTALLATION.
3. DISMANTLING JOINT BY VIKING JOHNSON.
4. DOUBLE CHECK ASSEMBLY SHALL BE SERIES BY WATTS, AMES OR APPROVED EQUAL. SHOP DRAWING MUST BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO INSTALLATION.
5. CELLULAR LTE ENDPOINT SHALL BE MOUNTED ON TOP OF METER VAULT AS PER/MANUFACTURER'S RECOMMENDATIONS.
6. *VAULT SHALL BE SIZED AS PER MINIMUM CLEARANCES SHOWN.
7. ALL GATE VALVES SHALL HAVE RISING STEMS
SEE SPECIFICATION 02665 FOR SPECIFIC REQUIREMENTS

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE 3-INCH AND LARGER METER CONNECTIONS DOMESTIC USE ONLY	DRN. BY: EMI	REV. NO.	BY	DATE
		CKD BY:			
		APPD. BY:			
		DATE: SEPT 2018			
		DETAIL No. W-20	FILE No. 18030W-20.dwg	SCALE: N.T.S.	



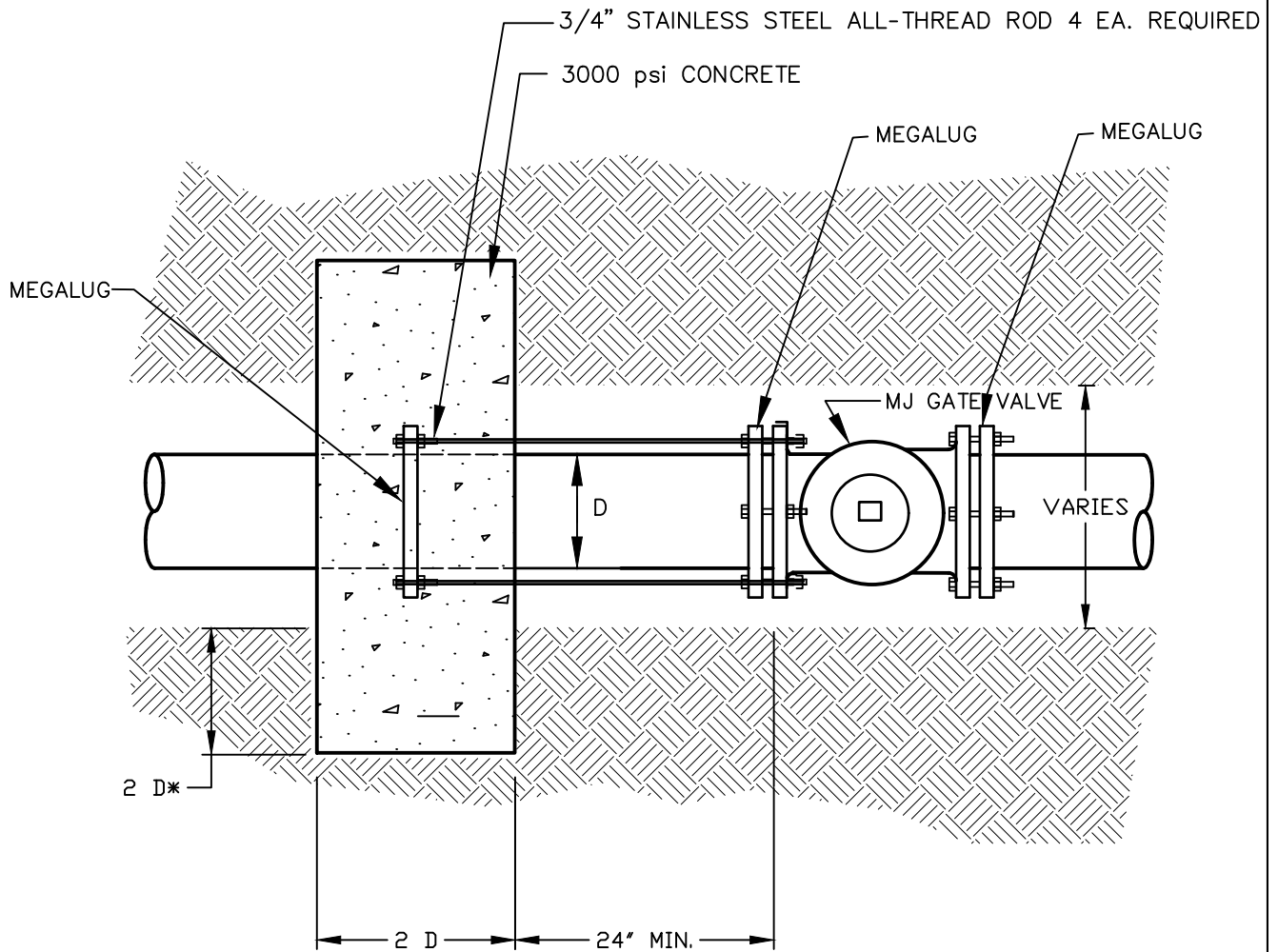
NOTES:

1. ALL PIPING INSIDE VAULT SHALL BE FLANGED.
2. MAINLINE METER SHALL BE BADGER FIRE SERIES FSAA FOR FIRE LINE ONLY INSTALLATIONS. SIZE TO BE COORDINATED WITH CITY, METER SHALL FEATURE REMOTE READING SYSTEM - BADGER ORION CELLULAR LTE ENDPOINT. METER MUST READ IN US GALLONS. SHOP DRAWING MUST BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO INSTALLATION.
3. DISMANTLING JOINT BY VIKING JOHNSON.
4. DOUBLE CHECK ASSEMBLY SHALL BE SERIES BY WATTS, AMES OR APPROVED EQUAL. SHOP DRAWING MUST BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO INSTALLATION.
5. CELLULAR ENDPOINT MODULE SHALL BE MOUNTED ON TOP OF METER VAULT AS PER/MANUFACTURER'S RECOMMENDATIONS.
6. *VAULT SHALL BE SIZED AS PER MINIMUM CLEARANCES SHOWN.
7. ALL GATE VALVES SHALL HAVE RISING STEMS.

SEE SPECIFICATION 02665 FOR SPECIFIC REQUIREMENTS

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

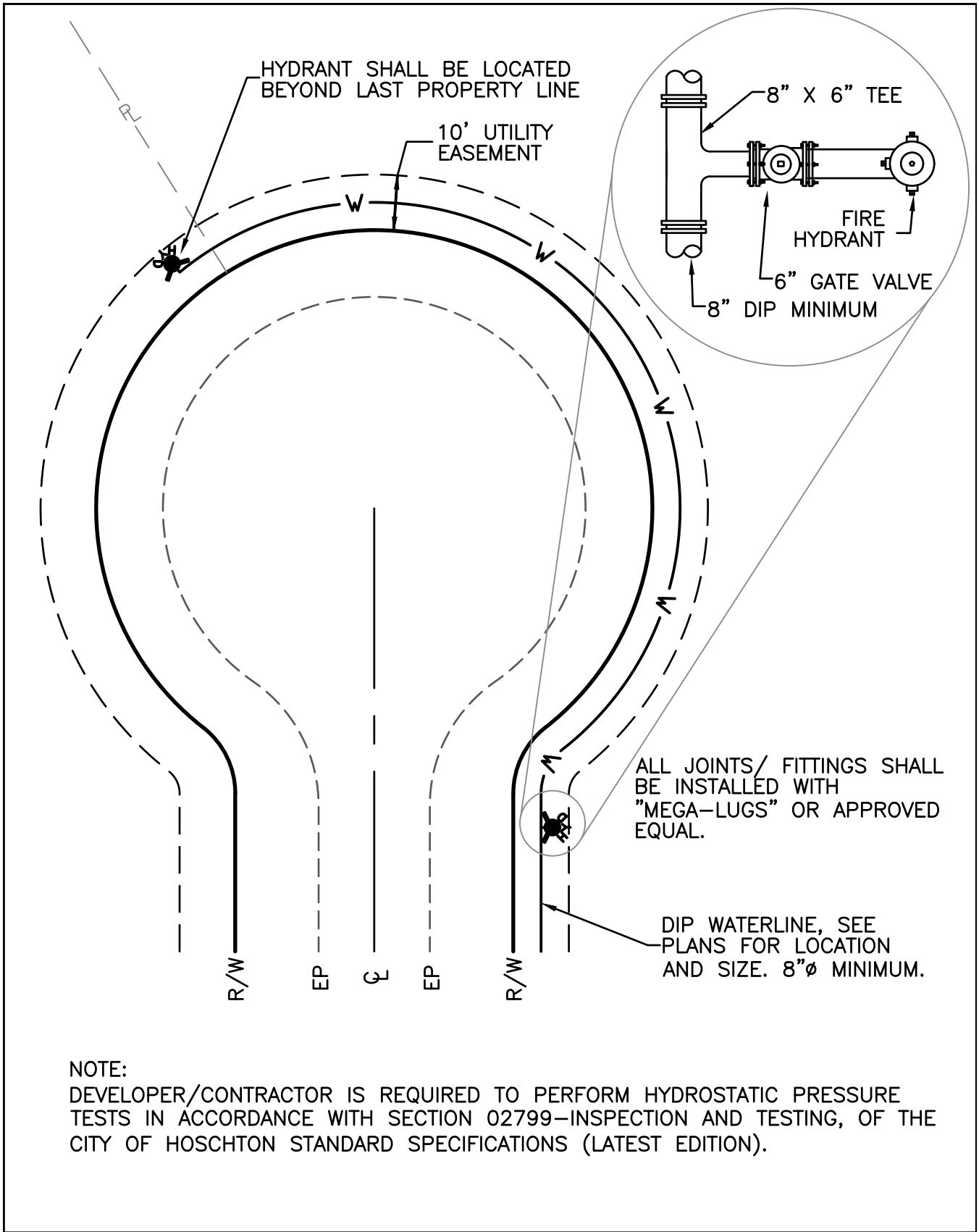
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		CKD BY:			
		APPD. BY:			
		DATE: JUNE 2006			
		DETAIL No. W-21	FILE No. 18-030W-21.dwg	SCALE: N.T.S.	



* DENOTES CONCRETE ANCHOR TO BE SET IN UNDISTURBED SOIL

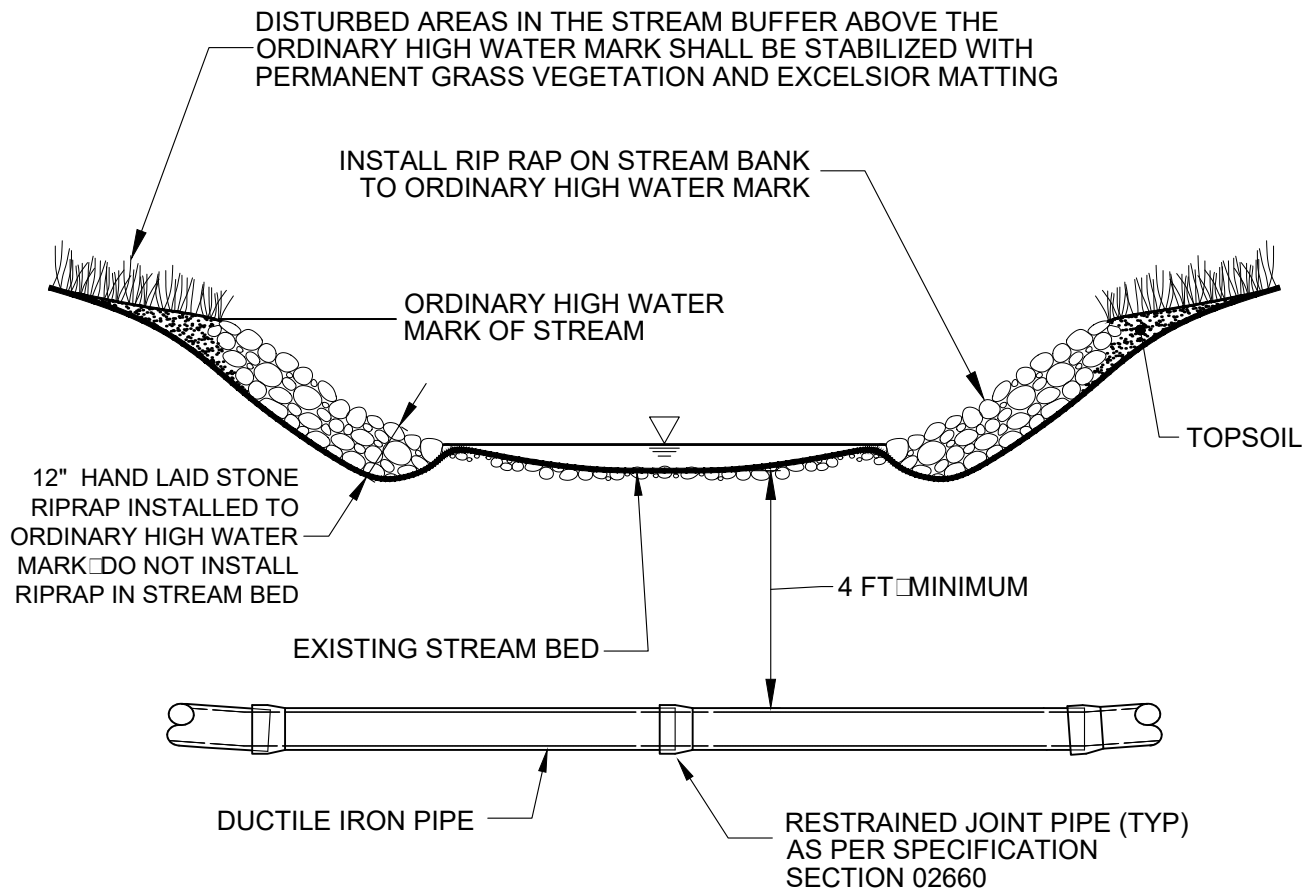
CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	CONCRETE RESTRAINT ANCHOR	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		DETAIL N <input type="checkbox"/> W-23	FILE N <input type="checkbox"/> 18030\W-23.dwg	SCALE <input type="checkbox"/> N.T.S.	



CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	CUL-DE-SAC LOOP	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
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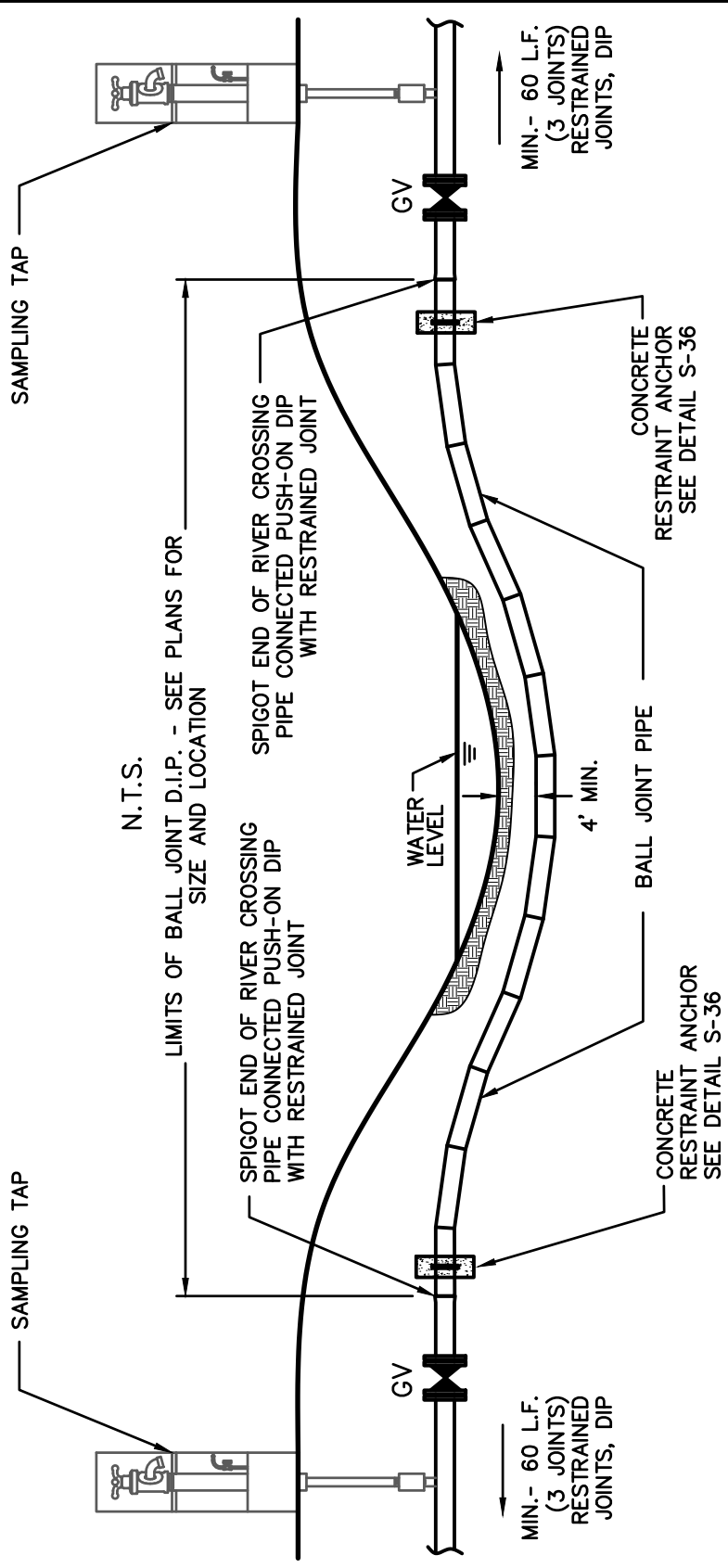


DETAIL NOTES:

- 1 □ VEGETATION REMOVAL IN THE STREAM BUFFER SHALL BE LIMITED TO THE AMOUNT NECESSARY FOR PIPELINE INSTALLATION □
- 2 □ ONCE PIPELINE INSTALLATION IS COMPLETE, STREAM BANKS AND SURROUNDING DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADE (NOT TO EXCEED 1 □ MAXIMUM SLOPE) □ RIPRAP SHALL BE INSTALLED ON THE STREAM BANKS TO THE ORDINARY HIGH WATER MARK □ RIPRAP PLACED ON STREAM BANK SHALL BE HAND LAID □ NO RIPRAP SHALL BE INSTALL IN STREAM BED □ DISTURBED AREAS IN THE BUFFER THAT DO NOT RECEIVE RIPRAP SHALL IMMEDIATELY BE STABILIZED WITH PERMANENT GRASSING WITH EXCELSIOR MATTING □
- 3 □ CONTRACTOR TO USE DUCTILE IRON RESTRAINED JOINT PIPE UNDER CREEK BED AND A MINIMUM OF 20 □ PAST TOP OF BANK □

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

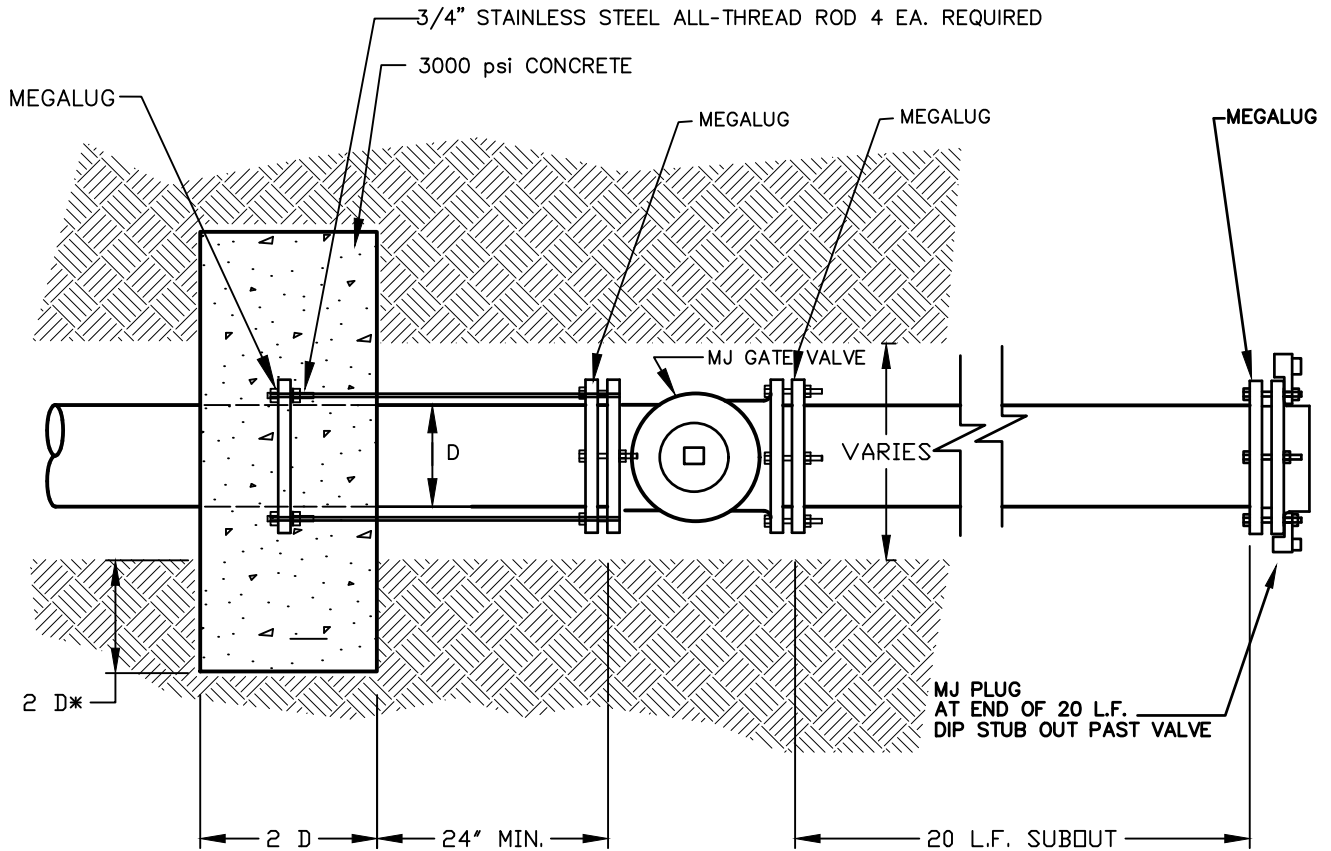
JOB TITLE STANDARD DETAIL	SHEET TITLE MINOR CREEK CROSSING	DRN □ BY □ EMI	REV □ NO □	BY	DATE
		CKD BY □			
		APPD □ BY □			
		DATE □ JUNE 2018			
		FILE N □ 180301W-25.d □	SCALE □ N T S □		
DETAIL N □ W-25					



- NOTES:
1. VALVES SHALL BE PROVIDED AT BOTH ENDS OF WATER CROSSINGS SO THAT THE SECTION CAN BE ISOLATED FOR TESTING OR REPAIR. VALVES SHALL BE EASILY ACCESSIBLE AND NOT SUBJECT TO FLOODING.
 2. SAMPLING TAPS SHALL BE INSTALLED AT EACH END OF THE CROSSING, AND PERMANENT TAPS SHALL BE MADE FOR TESTING AND DETERMINING LEAKS.

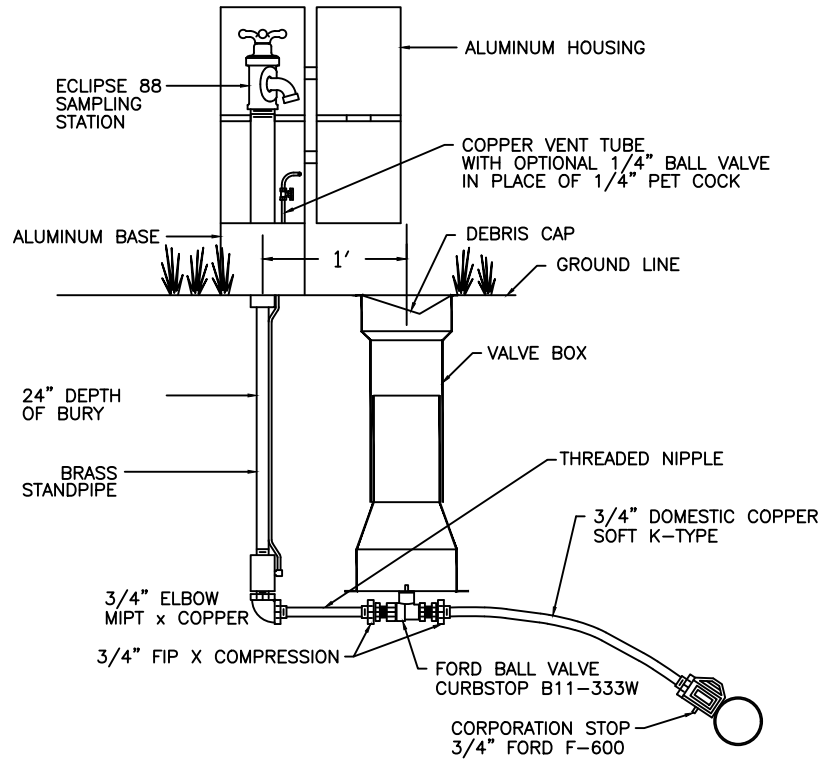
CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE MAJOR CREEK CROSSING	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
	DETAIL N <input type="checkbox"/> W-26	CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
		FILE N <input type="checkbox"/> 18030\W-26.d <input type="checkbox"/>		SCALE <input type="checkbox"/> N.T.S. <input type="checkbox"/>	



CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

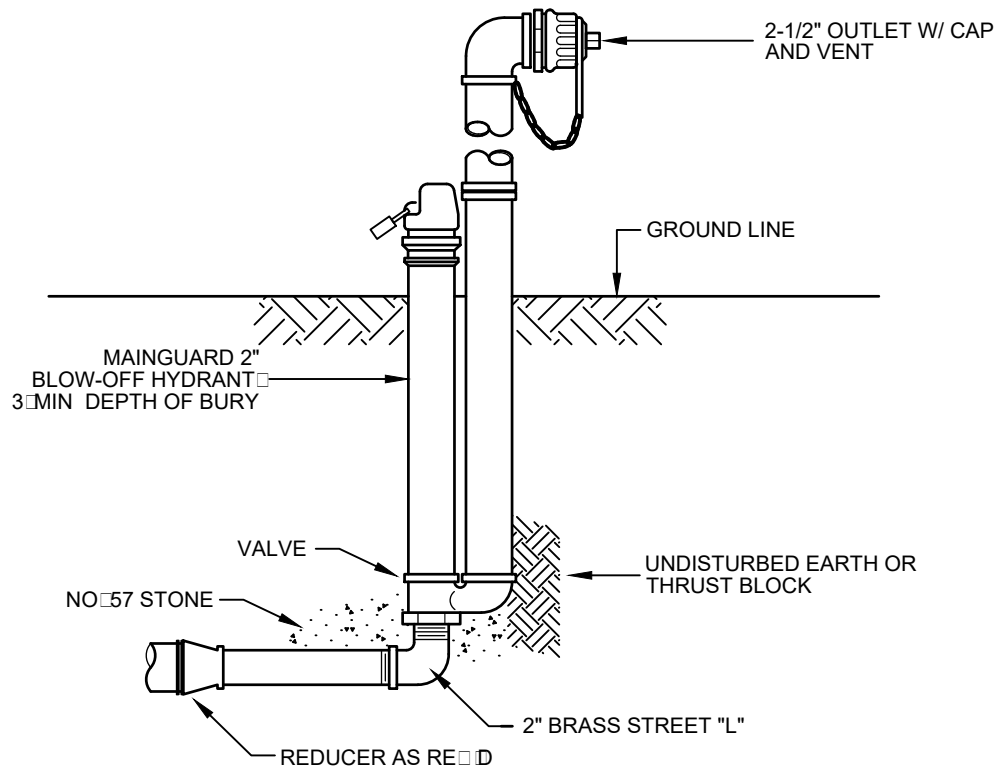
JOB TITLE STANDARD DETAIL	SHEET TITLE WATERLINE TERMINATION WITH VALVE, PLUG, AND ANCHOR	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/>	BY	DATE
		CKD BY <input type="checkbox"/>			
		APPD BY <input type="checkbox"/>			
		DATE <input type="checkbox"/> JUNE 2018			
	DETAIL N <input type="checkbox"/> W-31	FILE N <input type="checkbox"/> 18030\W-31.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>		



1. SAMPLING STATIONS SHALL BE 24" BURY, WITH A 3/4" FIP INLET, AND A (3/4" HOSE OR UNTHREADED) NOZZLE.
2. ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NONREMOVABLE, ALUMINUM-CAST HOUSING.
3. WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER SHALL FLOW IN AN ALL BRASS WATERWAY.
4. ALL WORKING PARTS SHALL BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING. EXTERIOR PIPING SHALL BE BRASS.
5. A COPPER VENT TUBE SHALL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIAL GROWTH.
6. SAMPLING STATION SHALL BE ECLIPSE NO. 88 BY KUPFERLE FOUNDRY, ST. LOUIS, MO.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE	DRN BY <input type="checkbox"/> EMI	REV NO <input type="checkbox"/> BY	DATE
	SAMPLING STATION	CKD BY <input type="checkbox"/>		
		APPD BY <input type="checkbox"/>		
		DATE <input type="checkbox"/> JUNE 2018		
	DETAIL N <input type="checkbox"/> W-32	FILE N <input type="checkbox"/> 18030\W-32.d <input type="checkbox"/>	SCALE <input type="checkbox"/> N T S <input type="checkbox"/>	



DETAIL NOTES:

1. POST HYDRANTS SHALL BE NONFREEZING SELF-DRAINING TYPE WITH A MINIMUM 3 FT BURY.
2. HYDRANTS SHALL BE FURNISHED WITH A 2" FIP INLET, A NON-TURNING OPERATING ROD, AND SHALL BE OPEN TO THE LEFT.
3. ALL OF THE WORKING PARTS SHALL BE OF BRONZE TO BRONZE DESIGN AND SHALL BE SERVICEABLE FROM ABOVE GRADE WITH NO DIGGING.
4. OUTLET SHALL BE BRONZE AND BE 2 1/2" NST.
5. HYDRANTS SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE.
6. HYDRANTS SHALL BE MAINGUARD NO 77 AS BY KUPFERLE FOUNDRY CO. OR APPROVED EQUAL.

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE STANDARD DETAIL	SHEET TITLE FLUSH HYDRANT	DRN BY EMI	REV NO	BY	DATE
		CKD BY			
		APPD BY			
		DATE JUNE 2018			
		DETAIL NO W-33	FILE NO 18030 W-33.dwg	SCALE	N.T.S.