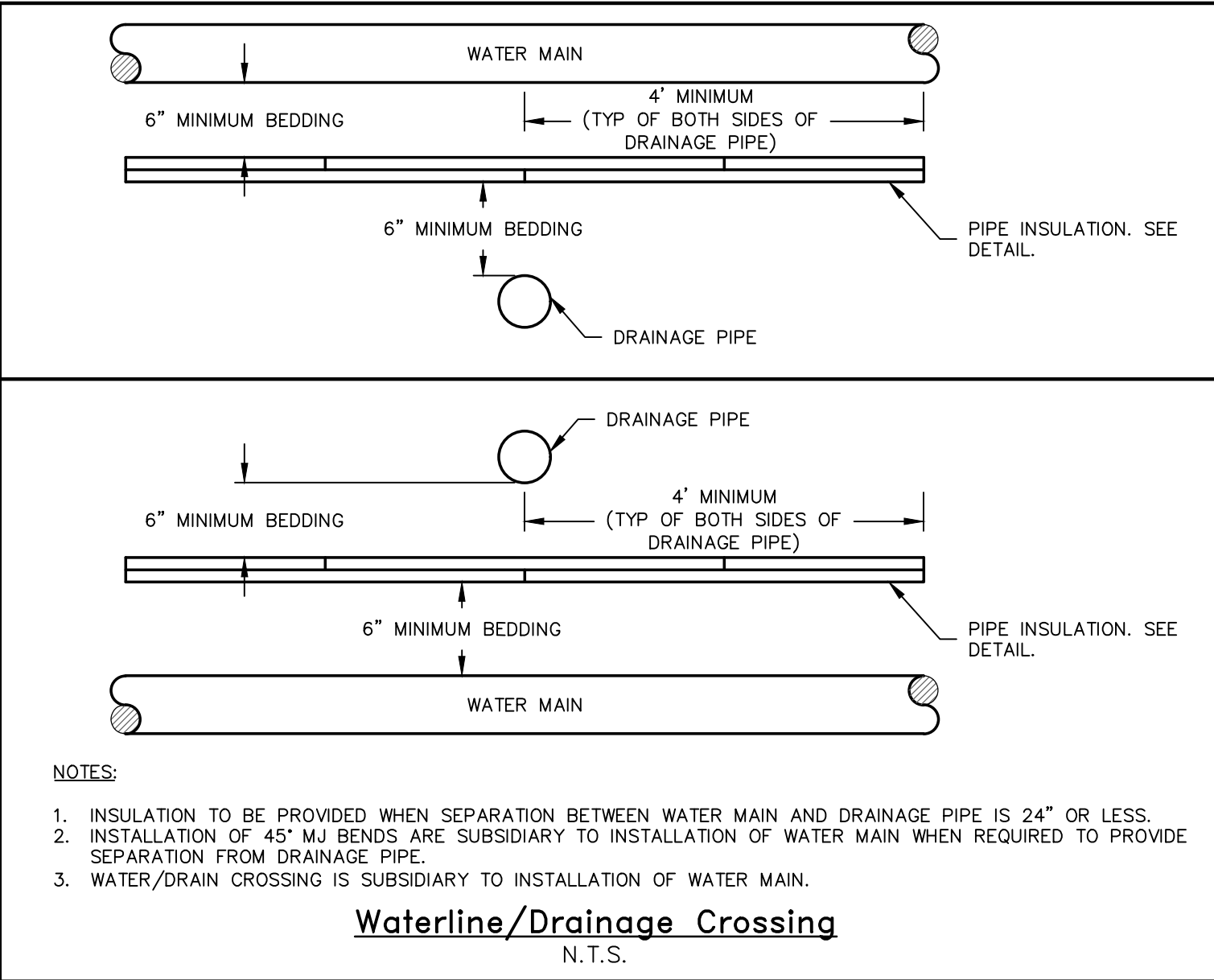
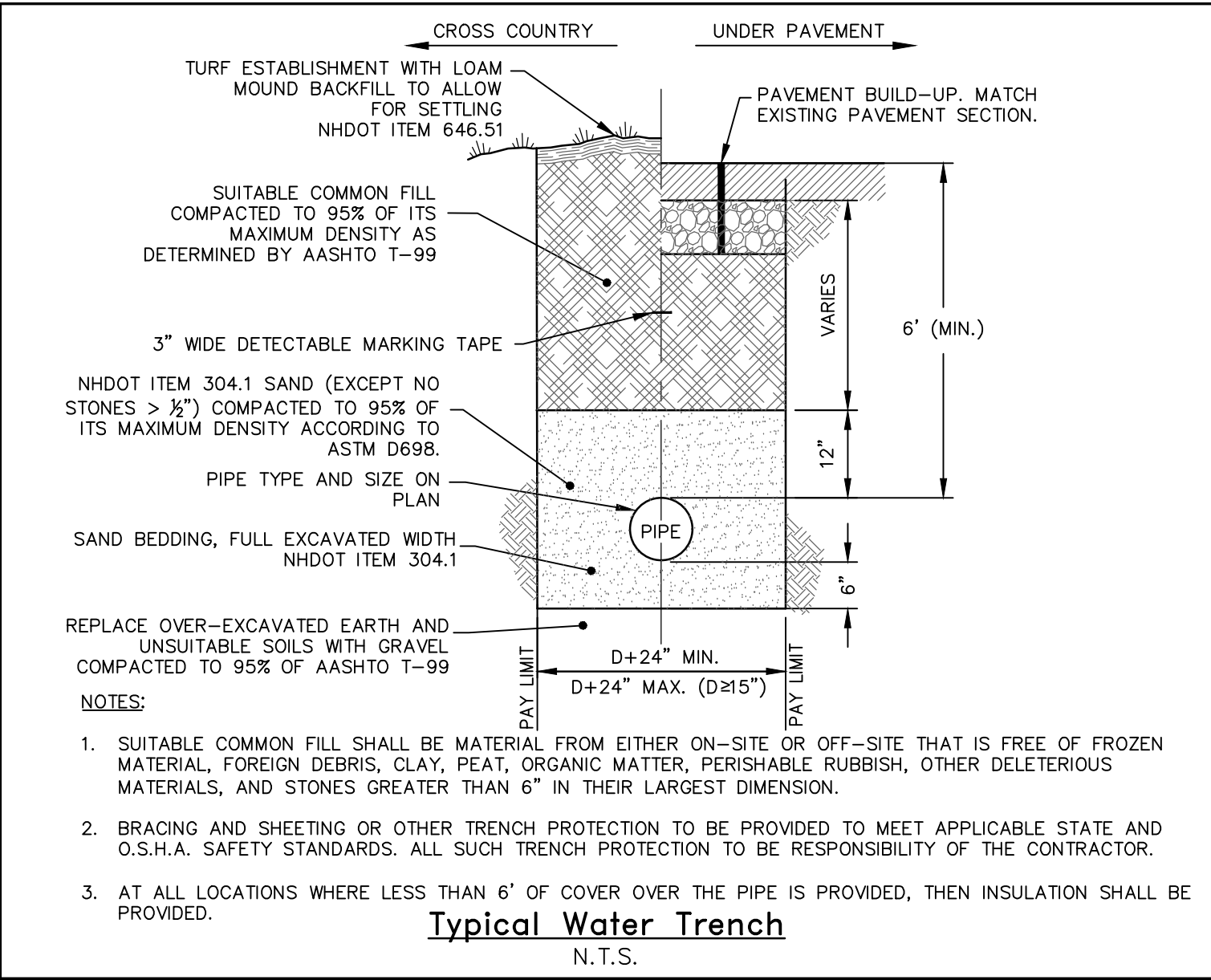
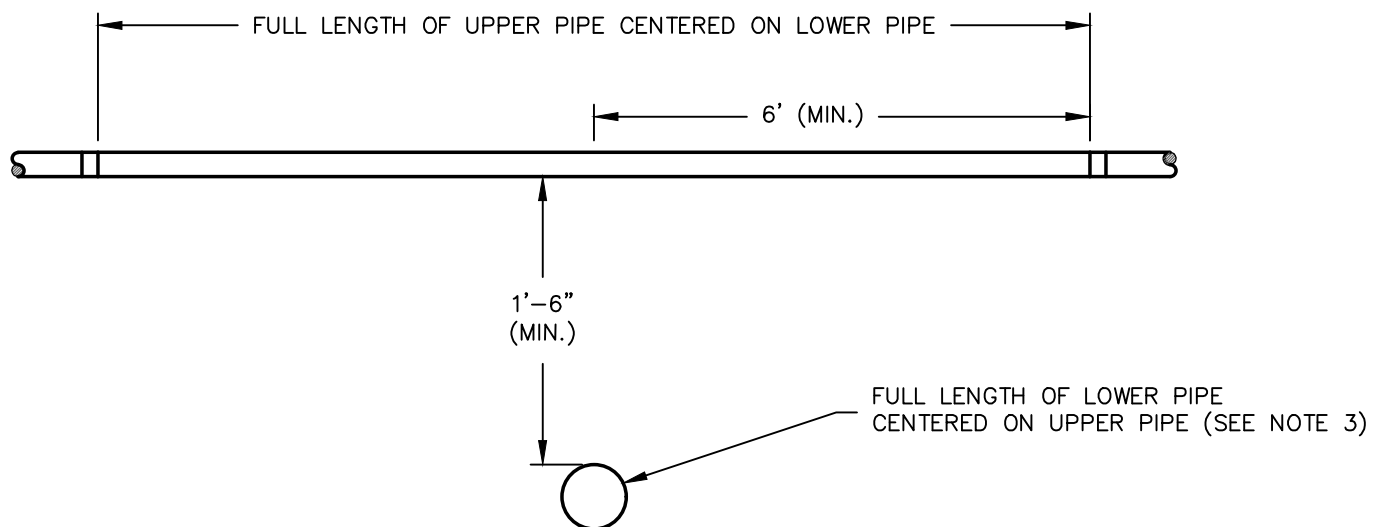


MINIMUM BEARING AREA (SQUARE FEET)								
NOMINAL DIAMETER	PIPE SIZE							
	4"	6"	8"	10"	12"	16"	20"	24"
TEES, CAPS, PLUGS, & TAPPING SLEEVES	1.05	2.32	4.15	6.37	9.15	16.23	25.44	36.58
90° BENDS	1.48	3.29	5.86	9.01	12.93	22.96	35.97	51.73
45° BENDS	0.80	1.78	3.17	4.88	7.00	12.42	19.47	28.00
22.5° BENDS	0.41	0.91	1.62	2.49	3.57	6.33	9.92	14.27
11.25° BENDS	0.21	0.46	0.81	1.25	1.79	3.18	4.99	7.17

Thrust Block Schedule



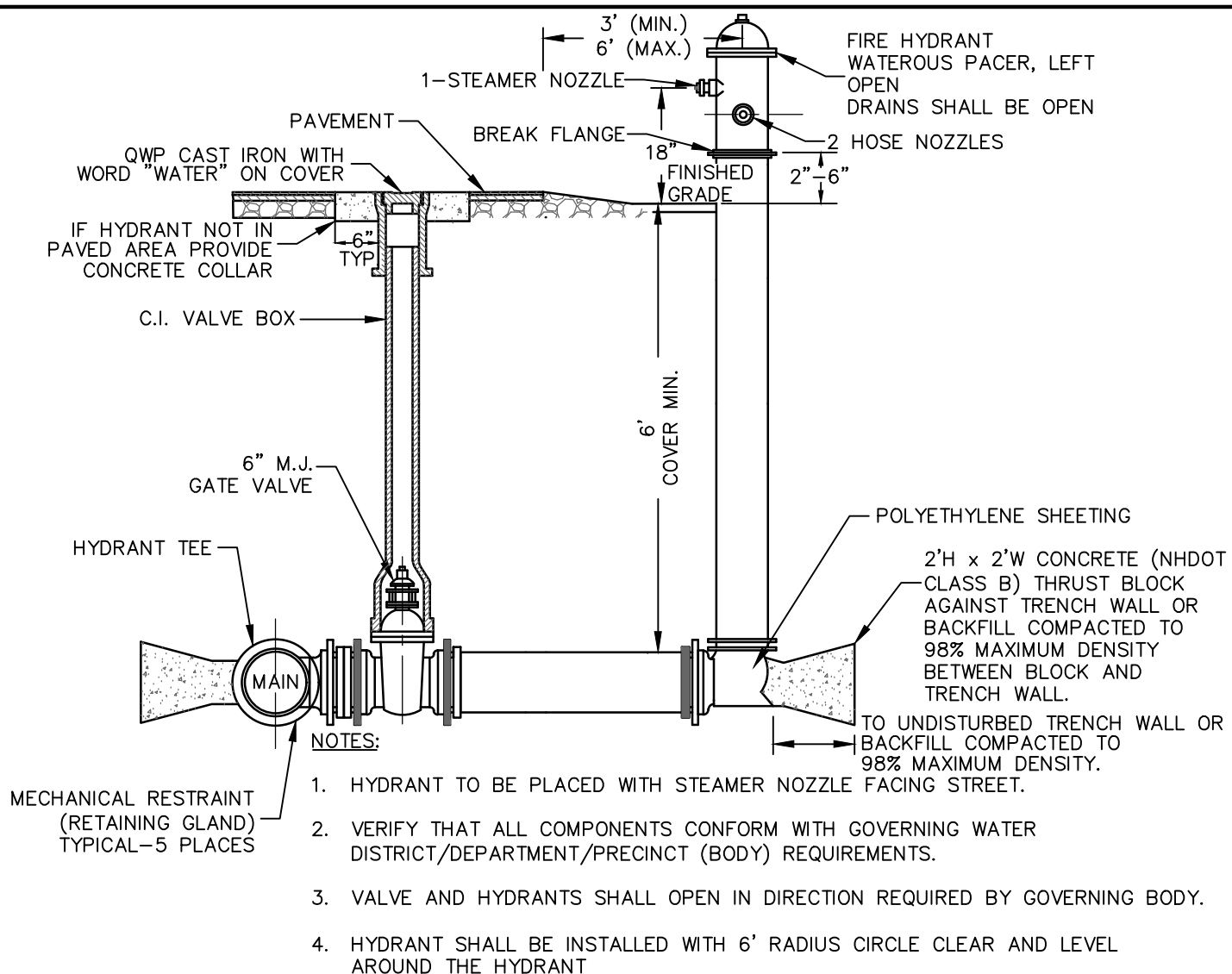


NOTES:

1. AT WATERLINE/SEWERLINE CROSSING LOCATIONS, WATERLINE DEPTH IS TO BE RAISED, AS NECESSARY, TO PROVIDE THE 1'-6" SEPARATION.
2. AT WATERLINE/SEWERLINE CROSSING LOCATIONS, SEWER IS TO BE CEMENT-LINED CLASS 52 DUCTILE IRON PIPE WITH LEAKPROOF CONNECTORS.
3. INSTALLATION OF 45° MJ BENDS ARE SUBSIDIARY TO INSTALLATION OF WATER MAIN WHEN REQUIRED TO PROVIDE SEPARATION FROM DRAINAGE PIPE.
4. SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6' HORIZONTALLY FROM THE WATER MAIN.
5. SEWERS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.
6. WATER/SEWER CROSSING IS SUBSIDIARY TO INSTALLATION OF WATER PIPE.

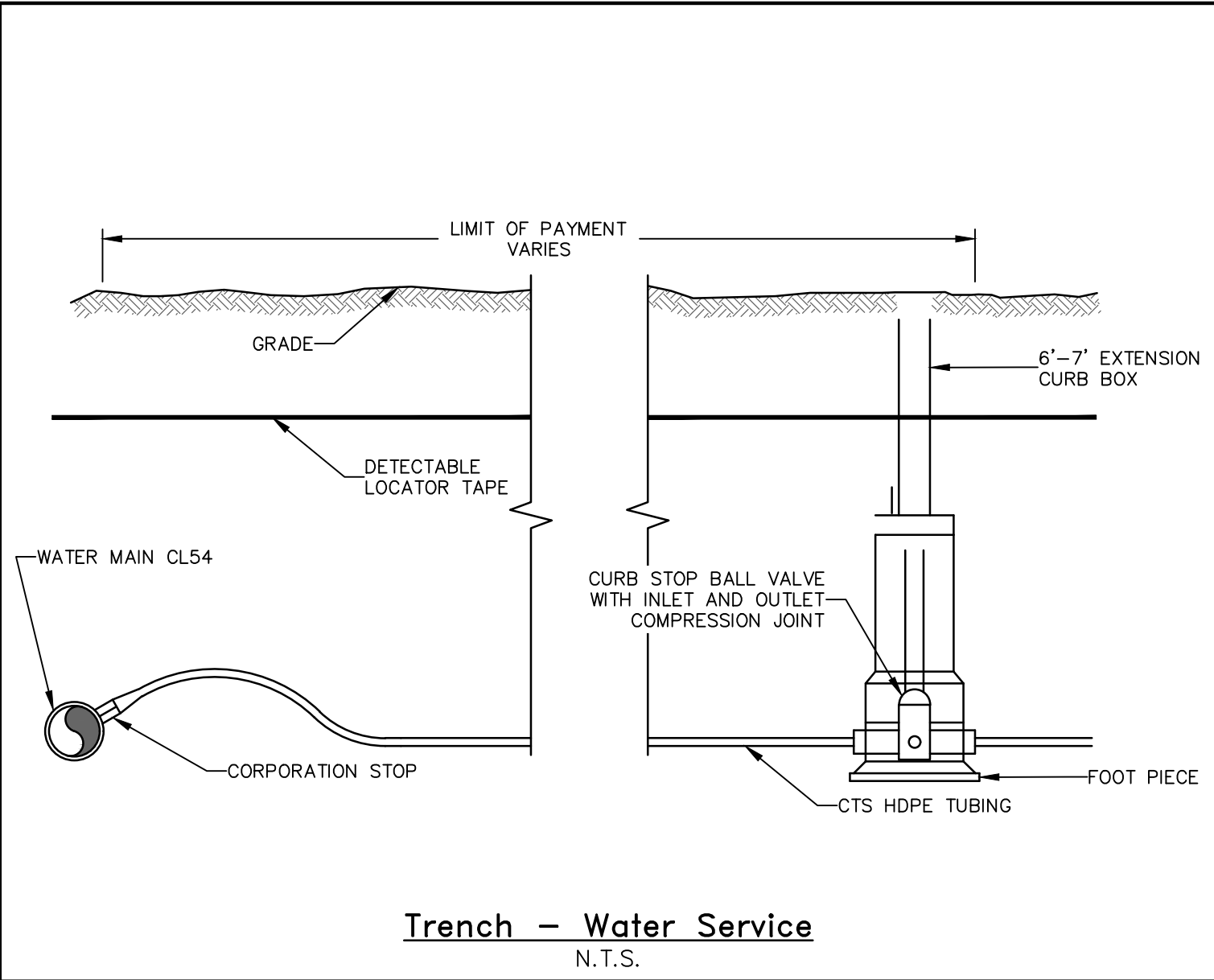
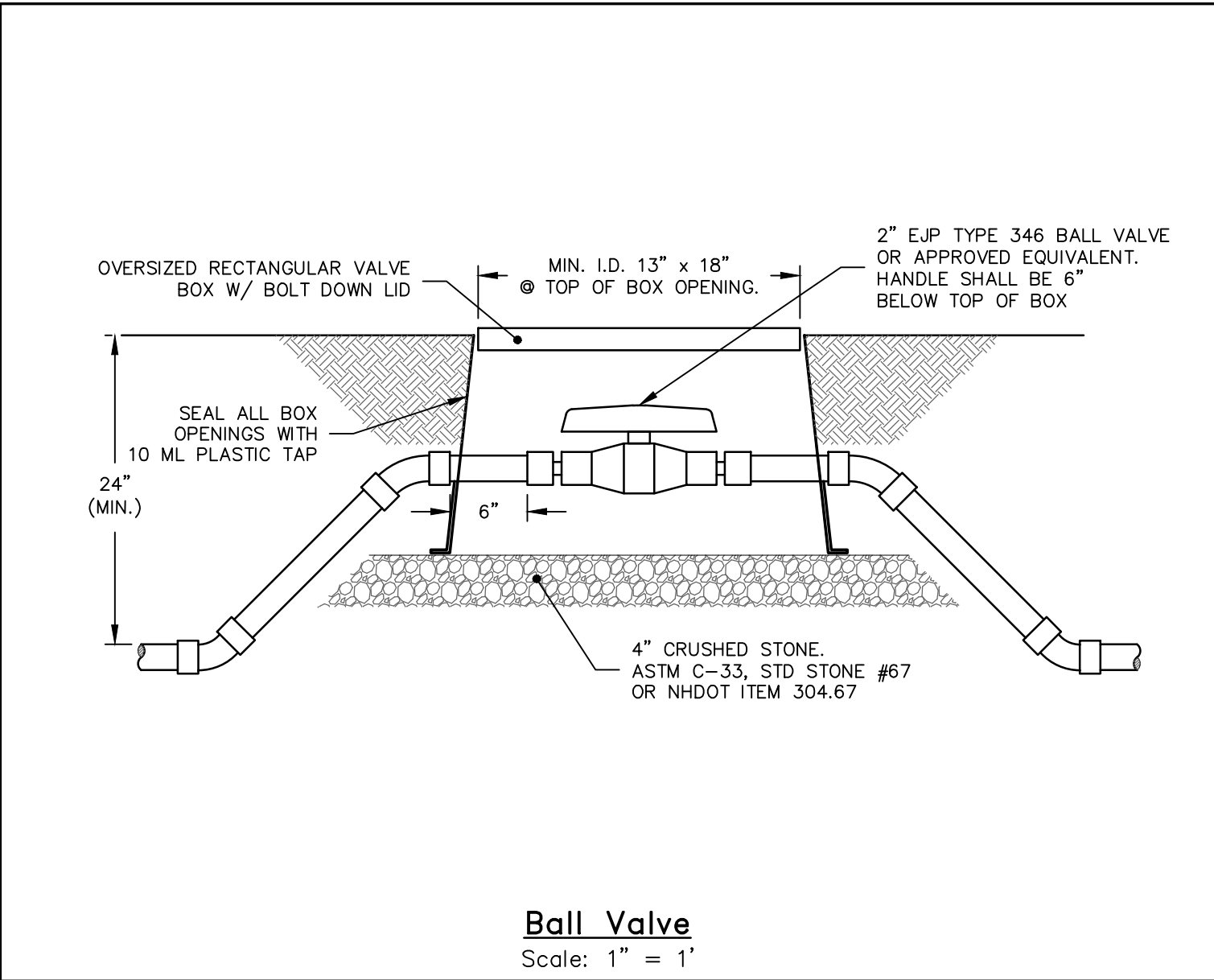
Waterline/Sewerline (Gravity) Crossing

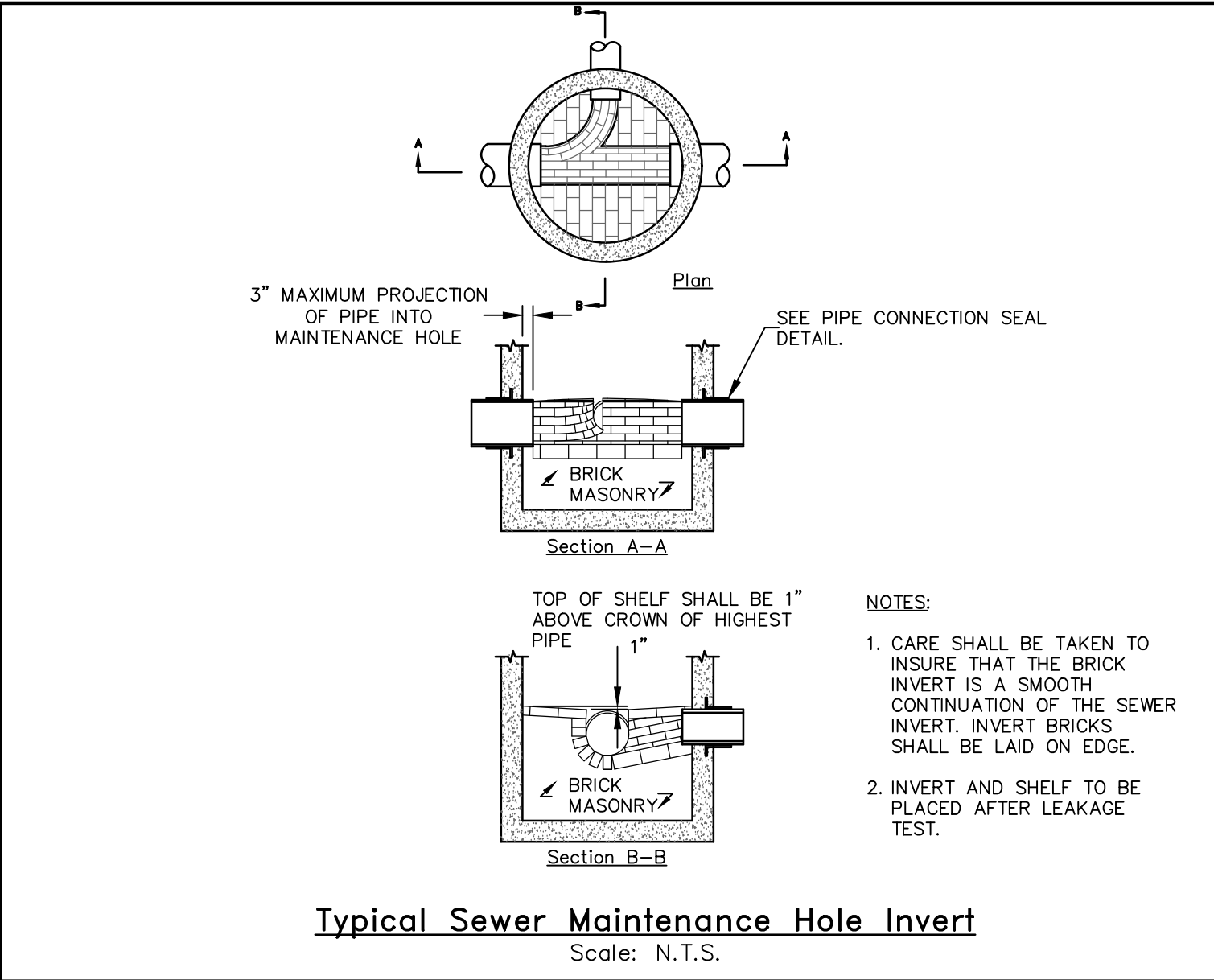
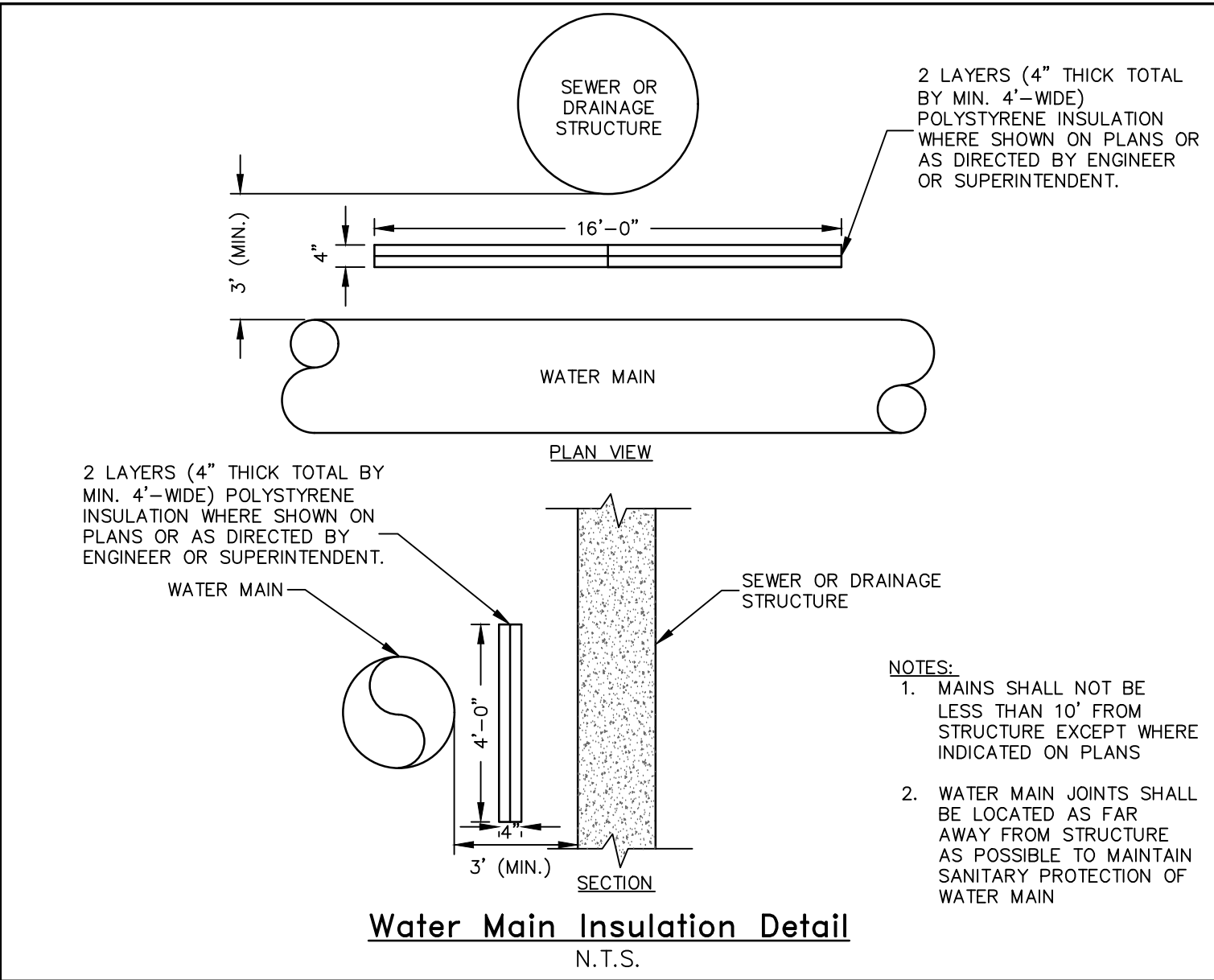
Scale: 1" = 1'

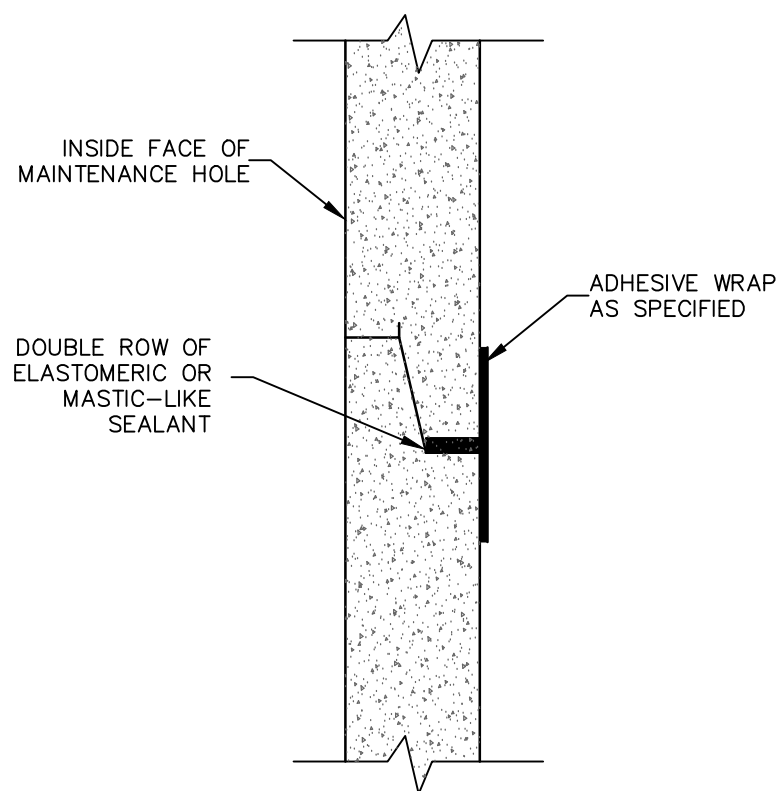


Hydrant Installation on New Water Main

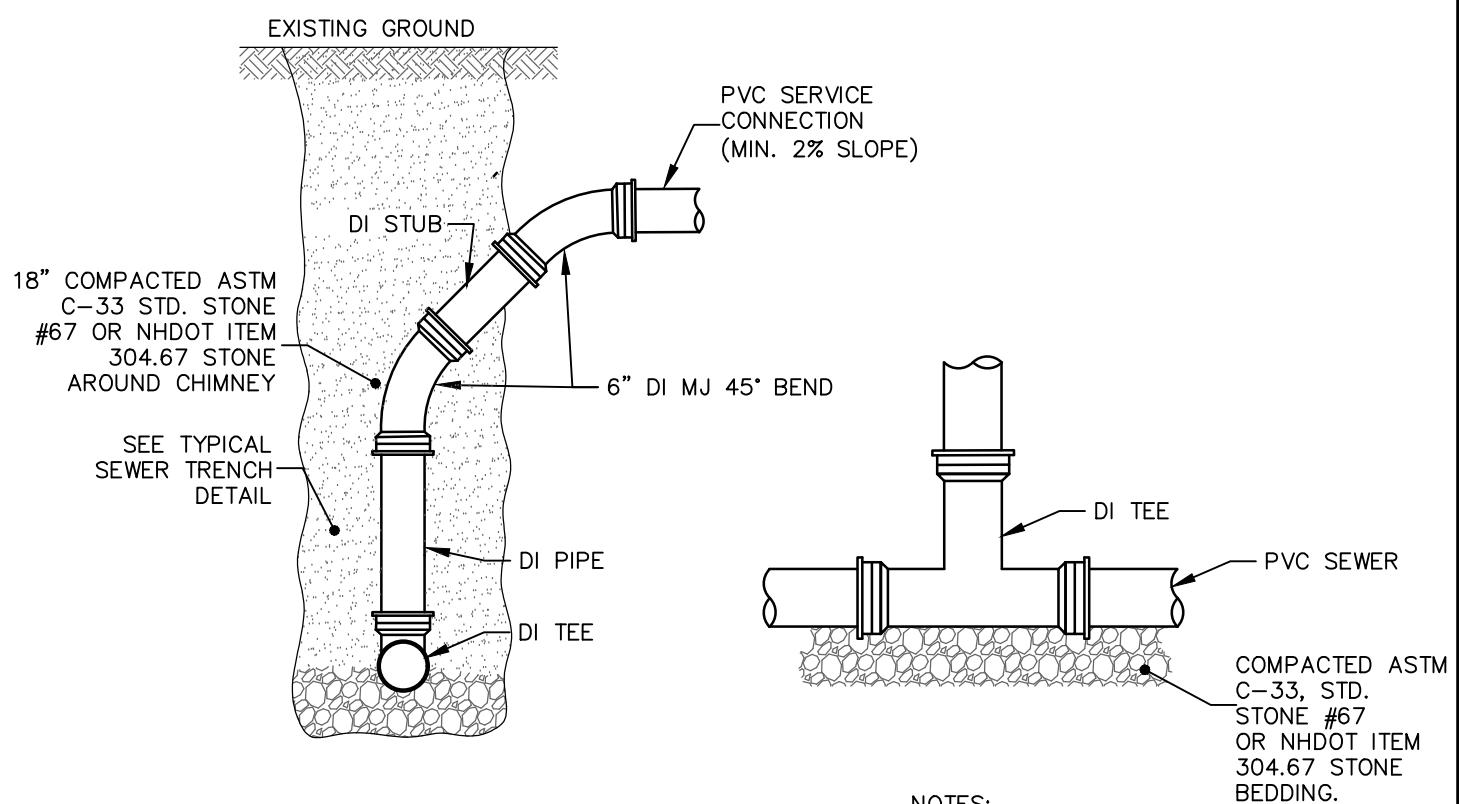
N.T.S.







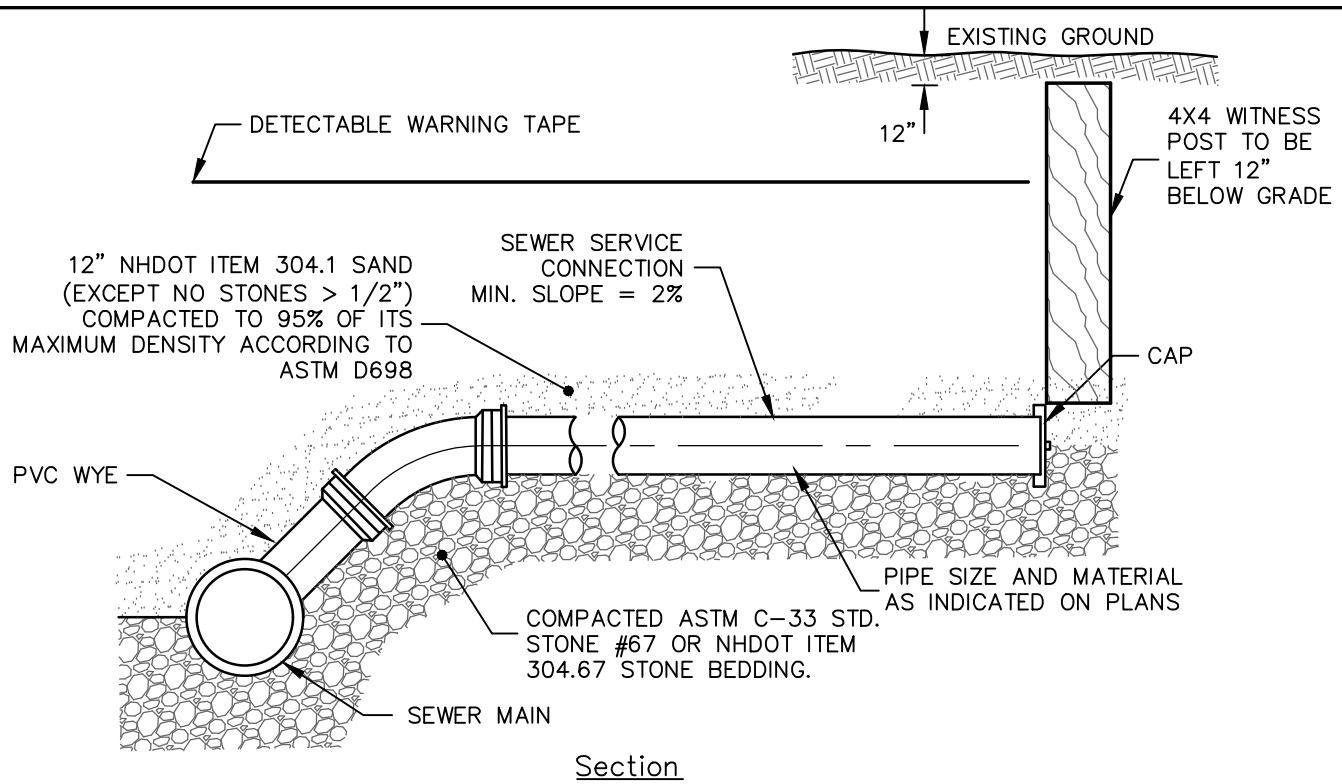
**Maintenance Hole
Joint Sealing Method**
N.T.S.



NOTES:

1. SEE SEWER TRENCH DETAIL FOR PIPE INSTALLATION REQUIREMENTS.
2. MINIMUM CHIMNEY HEIGHT SHALL BE 3'.
3. CHIMNEY SHALL BE INSTALLED AT ALL LOCATIONS WHERE SERVICE CONNECTION IS GREATER THAN 3' VERTICAL FROM SEWER MAIN.

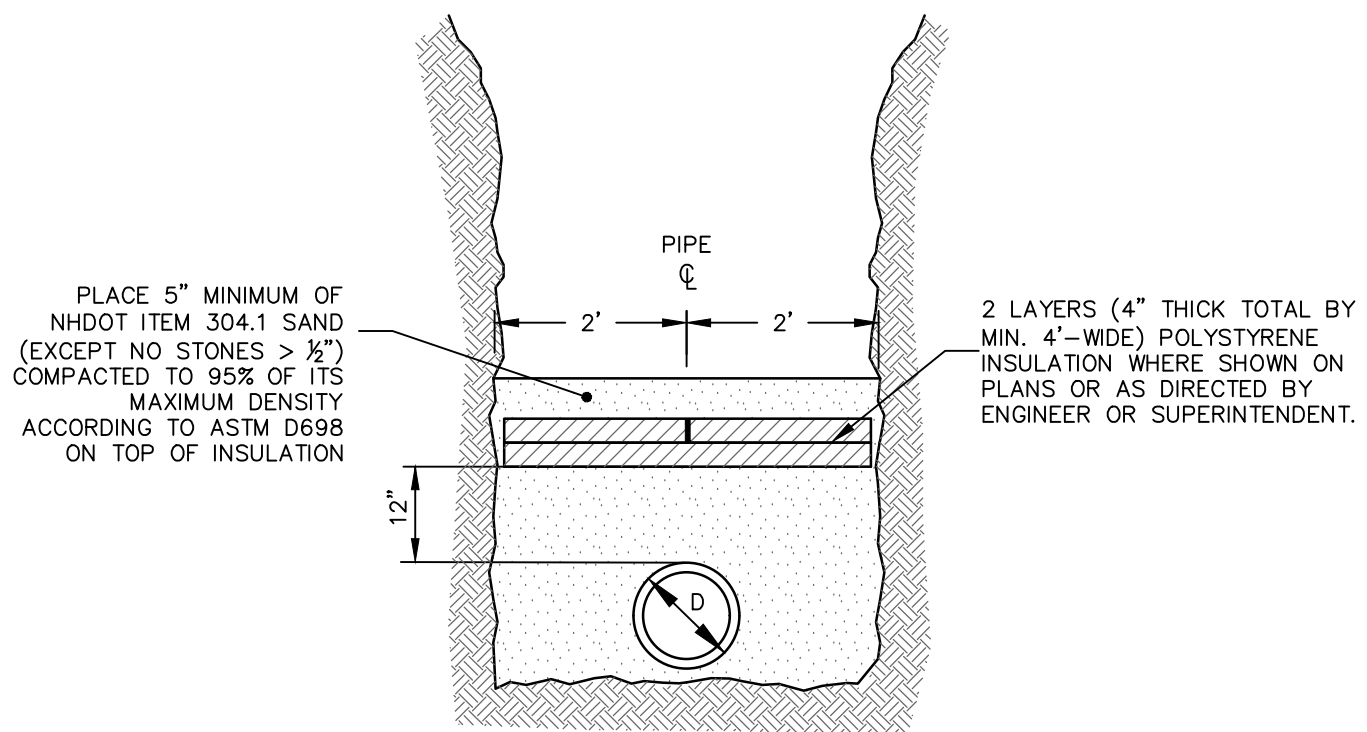
Sewer Chimney
N.T.S.



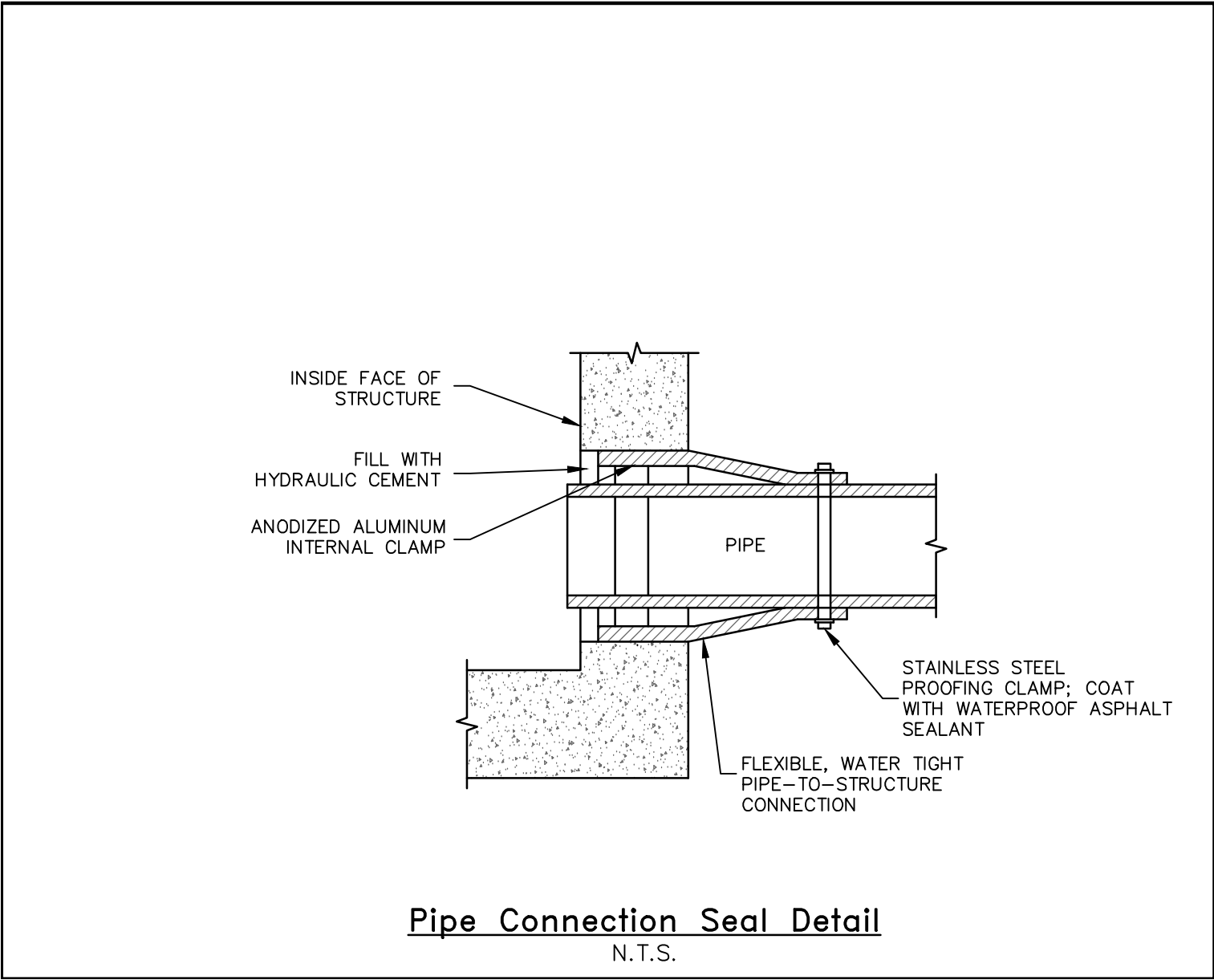
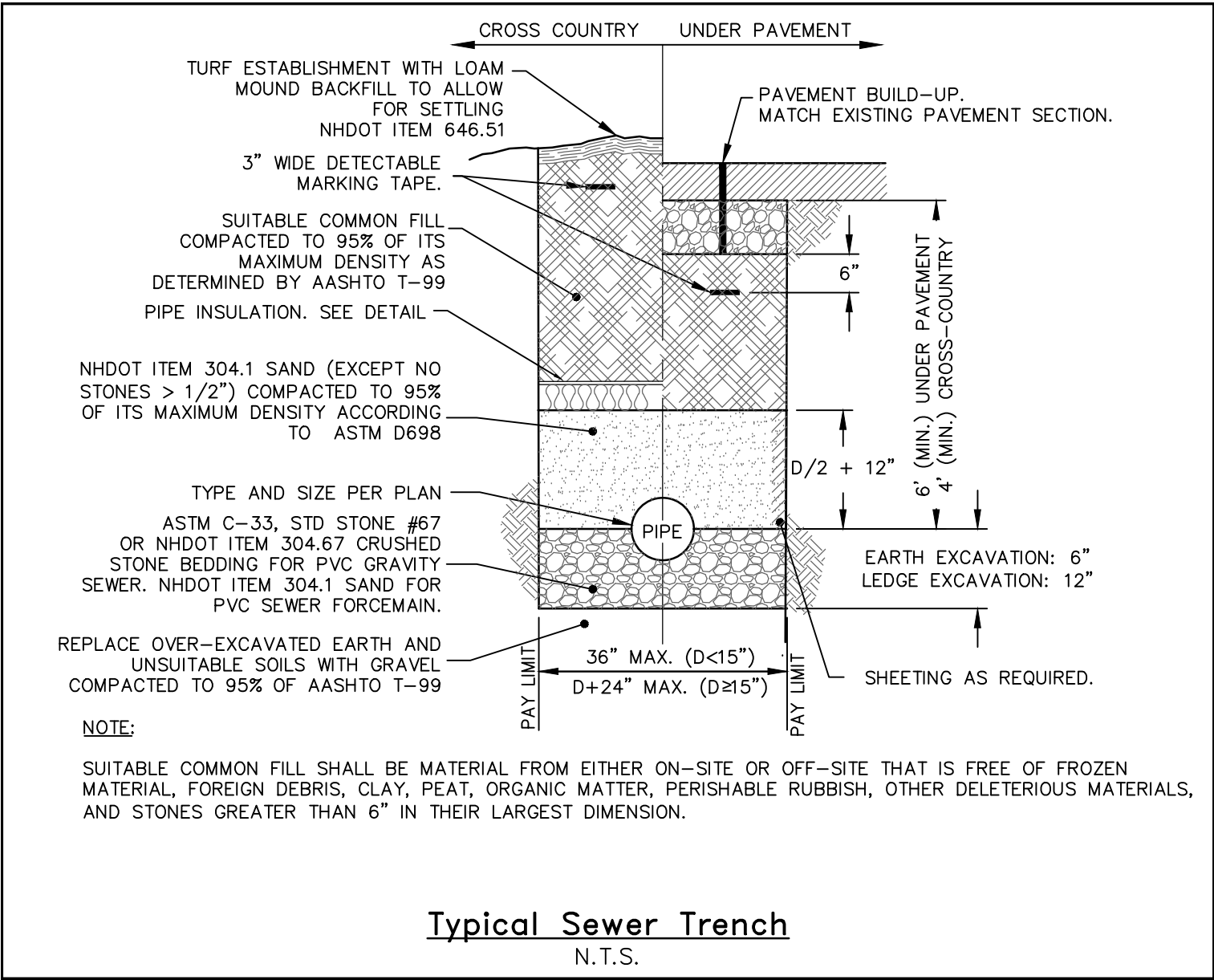
NOTES:

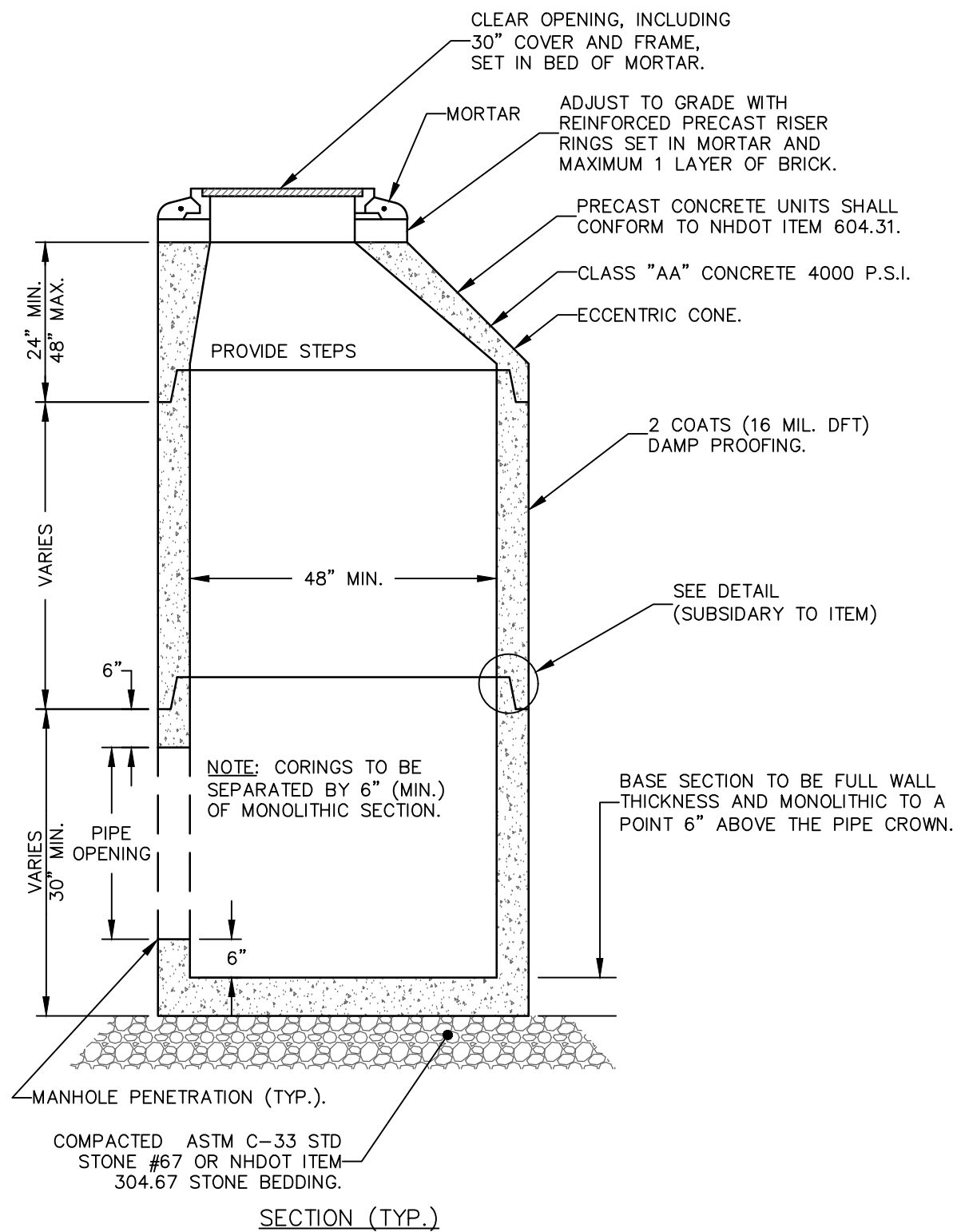
1. SEE SEWER TRENCH DETAIL FOR PIPE INSTALLATION REQUIREMENTS.
2. GRAVITY SEWER SERVICE STUB SHALL EXTEND TO PROPERTY LINE. CAP SHALL BE INSTALLED ON PROPERTY LINE OF THE LOT IT IS SERVICING.

Gravity Sewer Service Stub
N.T.S.



Pipe Insulation
Scale: 1" = 2'





Sewer Manhole
N.T.S.

