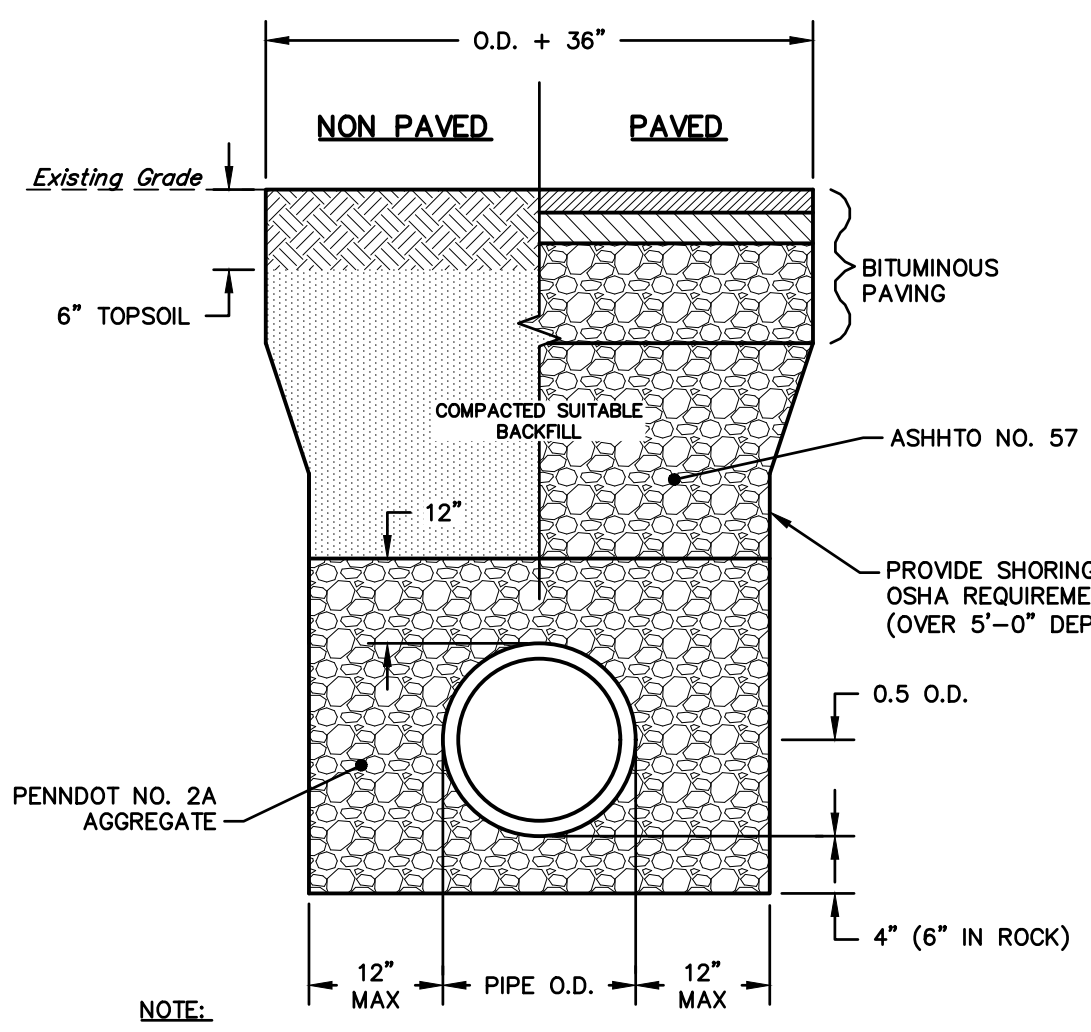


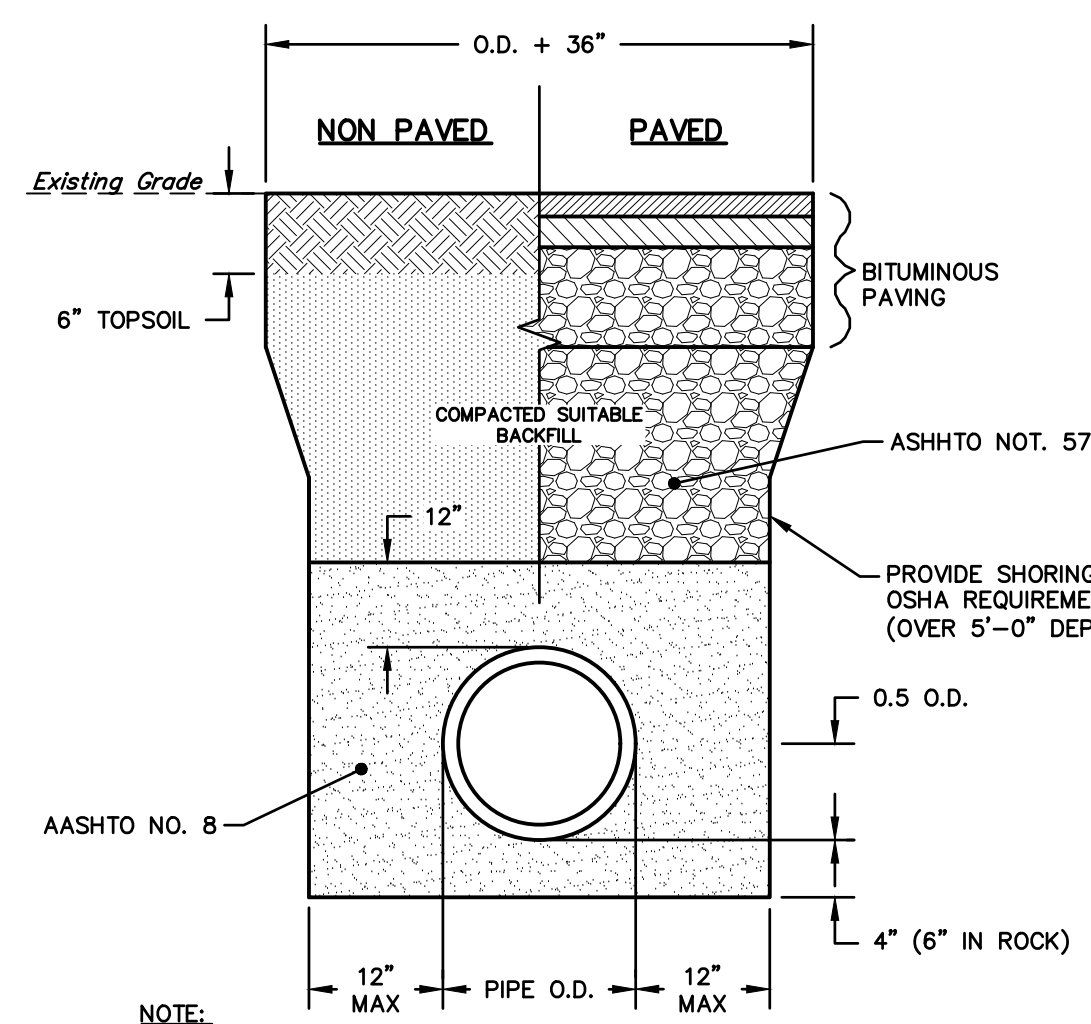
SINKHOLE REPAIR WITH A PERVIOUS COVER  
N.T.S.

NOTES:

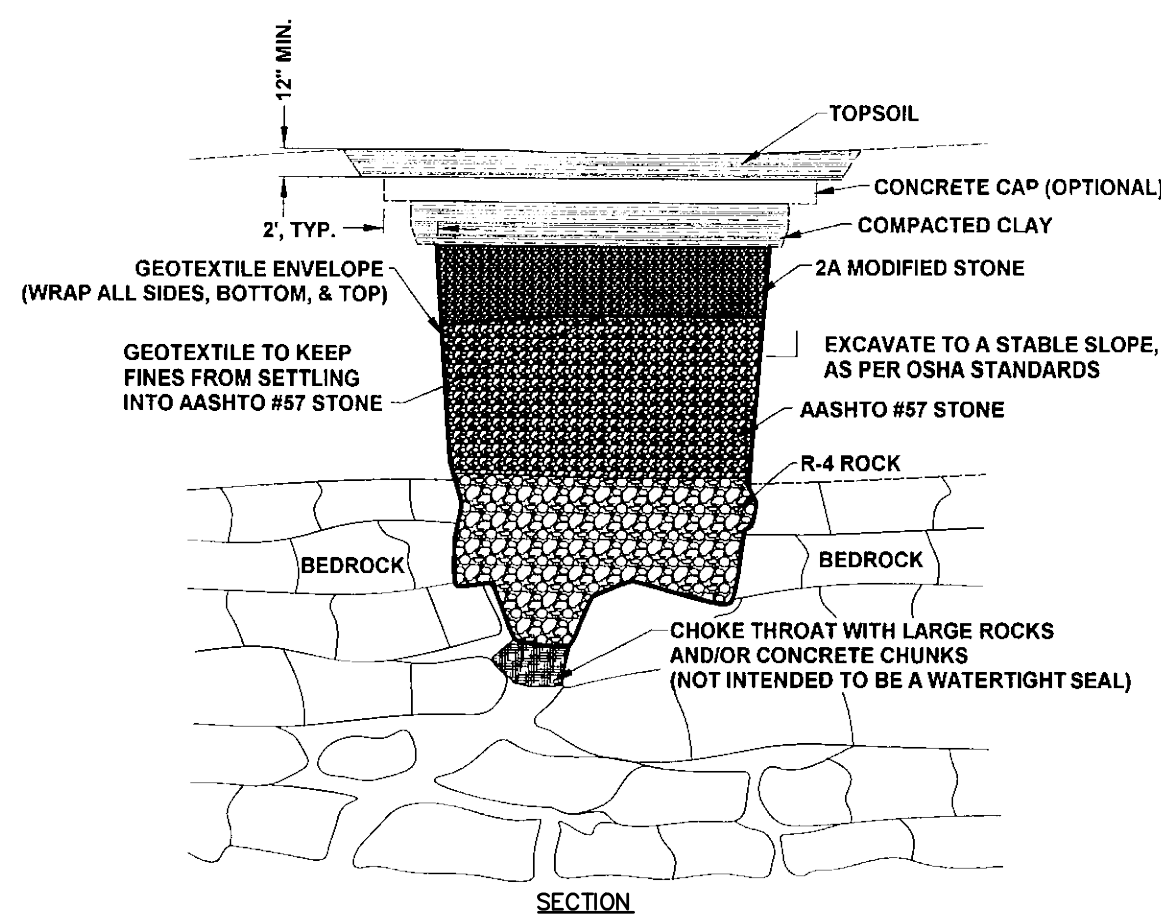
1. DETAIL ADAPTED FROM USDA NRCS; FROM E&S POLLUTION CONTROL MANUAL 363-2134-008.
2. LOOSE MATERIAL SHALL BE EXCAVATED FROM THE SINKHOLE AND EXPOSE SOLUTION VOID(S) IF POSSIBLE. ENLARGE SINKHOLE IF NECESSARY TO ALLOW FOR INSTALLATION OF FILTER MATERIALS. OSHA REGULATIONS MUST BE FOLLOWED AT ALL TIMES DURING EXCAVATION.
3. STONES USED FOR THE "BRIDGE" AND FILTERS SHALL HAVE A MODERATELY HARD ROCK STRENGTH AND BE RESISTANT TO ABRASION AND DEGRADATION. SHALE AND SIMILAR SOFT AND/OR NON-DURABLE ROCK ARE NOT ACCEPTABLE.
4. PERVIOUS SINKHOLE REPAIRS SHALL NOT BE INSTALLED WITHIN THE FOOTPRINT OF STORMWATER MANAGEMENT FACILITIES WHICH STORE, POND, OR INFILTRATE WATER. THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.
5. DUE TO THE VARIABLE NATURE OF SINKHOLES, THEY SHALL BE REPAIRED UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.



STORM PIPE TRENCH RESTORATION DETAIL  
N.T.S.



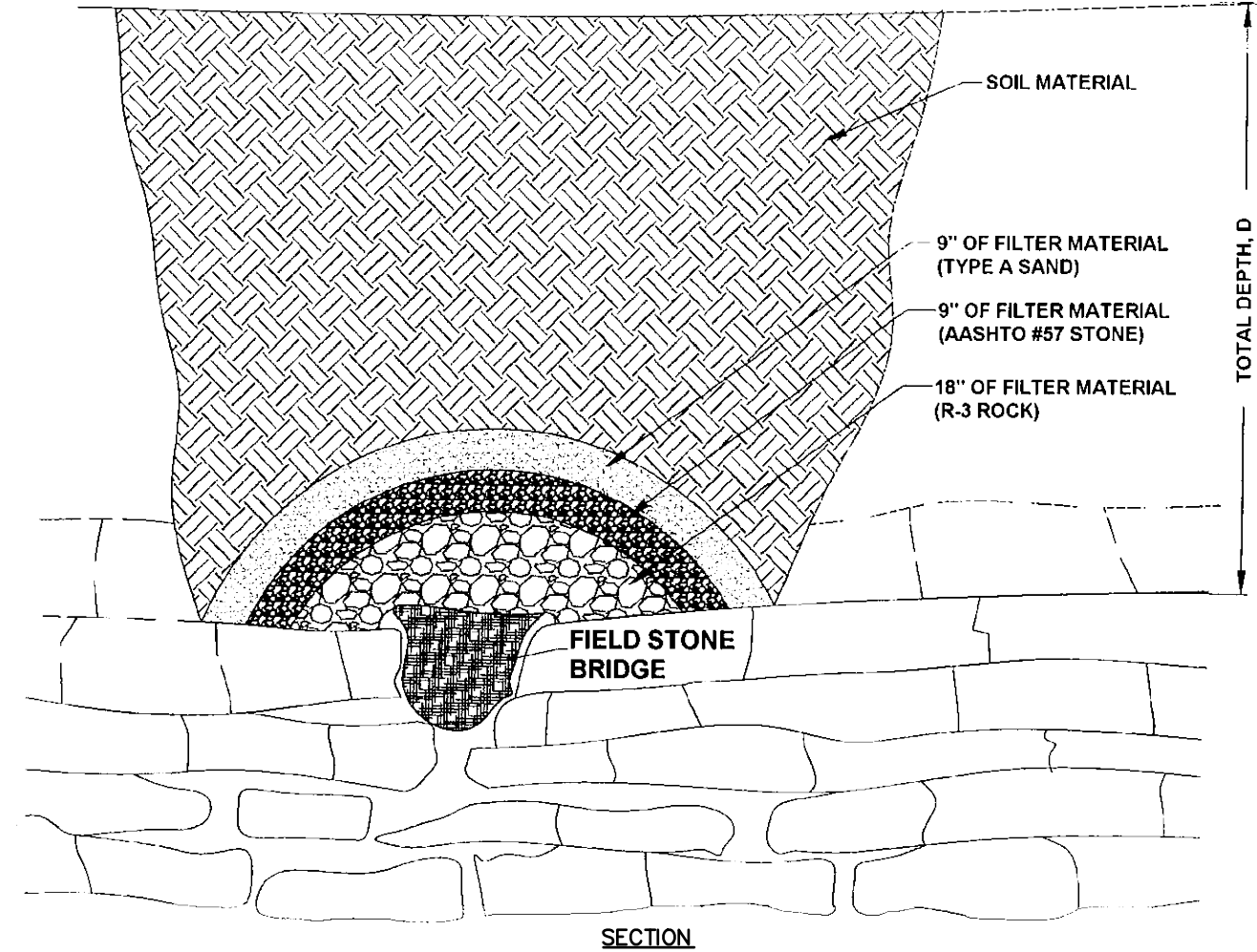
UTILITY, SANITARY AND WATER PIPE  
TRENCH RESTORATION DETAIL  
N.T.S.



SINKHOLE REPAIR WITH AN IMPERVIOUS COVER  
N.T.S.

NOTES:

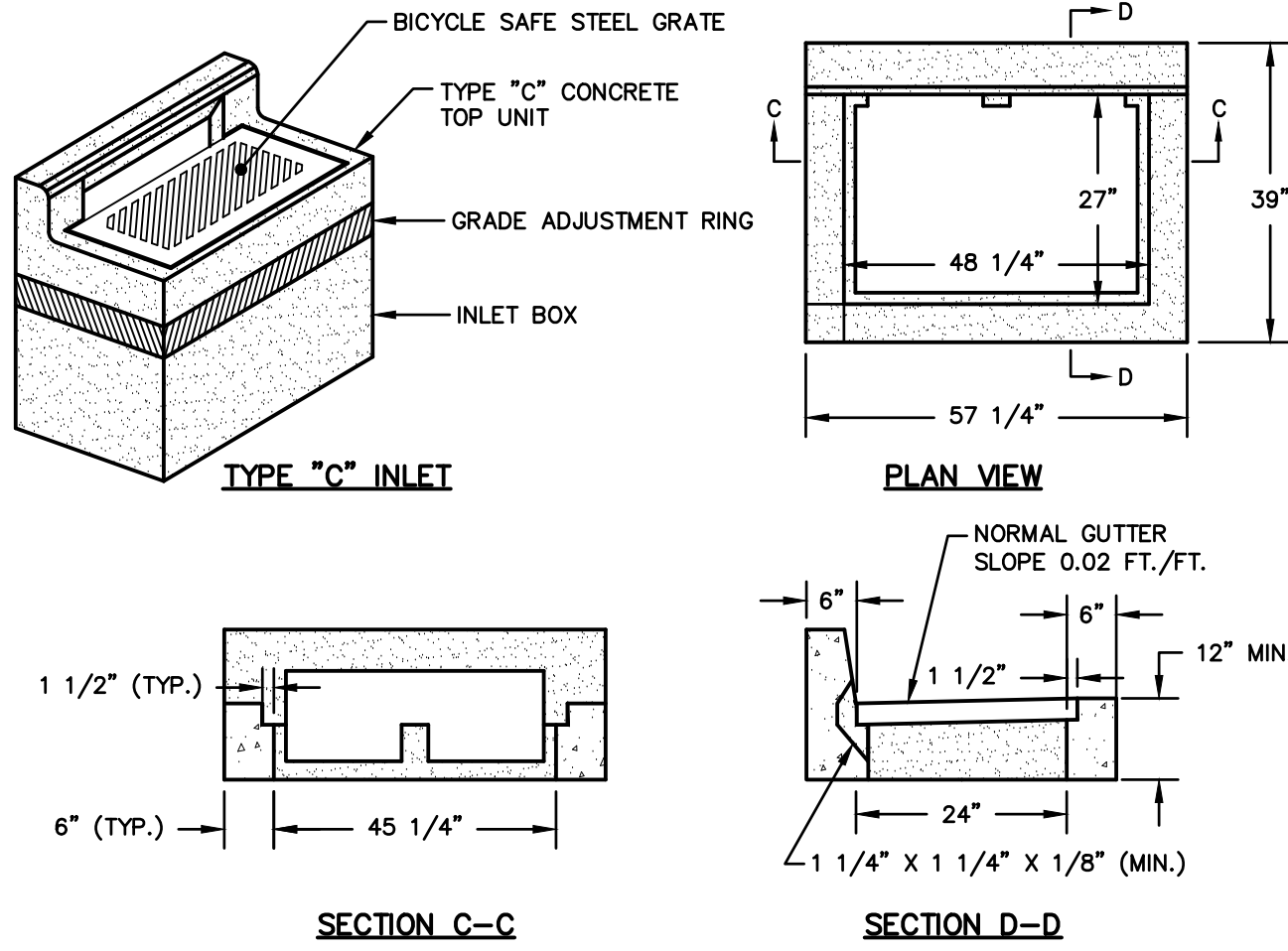
1. DETAIL ADAPTED FROM USDA NRCS; FROM E&S POLLUTION CONTROL MANUAL 363-2134-008.
2. LOOSE MATERIAL SHALL BE EXCAVATED FROM THE SINKHOLE AND EXPOSE SOLUTION VOID(S) IF POSSIBLE. ENLARGE SINKHOLE IF NECESSARY TO ALLOW FOR INSTALLATION OF FILTER MATERIALS. OSHA REGULATIONS MUST BE FOLLOWED AT ALL TIMES DURING EXCAVATION.
3. GEOTEXTILE SHALL BE NON-WOVEN WITH A BURST STRENGTH BETWEEN 100 AND 200 PSI.
4. SELECT FIELD STONE(S) ABOUT 1.5 TIMES LARGER THAN SOLUTION VOID(S) TO FORM "BRIDGE". PLACE ROCK(S) SO NO LARGE OPENINGS EXIST ALONG THE SIDES. STONES USED FOR THE "BRIDGE" AND FILTERS SHALL HAVE A MODERATELY HARD ROCK STRENGTH AND BE RESISTANT TO ABRASION AND DEGRADATION. SHALE AND SIMILAR SOFT AND/OR NON-DURABLE ROCK ARE NOT ACCEPTABLE.
5. MINIMUM THICKNESS OF R-4 ROCK IS 18". AASHTO #57 STONE THICKNESS SHALL BE 1/4 TO 1/2 THAT OF THE R-4 ROCK. MINIMUM THICKNESS OF 2A MODIFIED CRUSHED STONE SHALL BE 9". AASHTO #57 STONE AND 2A MODIFIED CRUSHED STONE SHALL BE COMPACTED AFTER EACH PLACEMENT.
6. COMPACTED CLAY SEAL SHALL BE A MINIMUM OF 12" THICK. CLAY SHALL BE PLACED IN 6" TO 9" LIFTS AND THOROUGHLY COMPACTED.
7. CONCRETE CAP, WHICH IS OPTIONAL, SHALL BE A MINIMUM OF 8" THICK. USE 4,000 PSI CONCRETE WITH 6"x6" - 6 GAUGE WELDED WIRE FABRIC, OR #3 REBAR ON 18" O.C. BOTH WAYS.
8. TOPSOIL SHALL BE A MINIMUM OF 12" THICK. GRADE FOR POSITIVE DRAINAGE AWAY FROM SINKHOLE AREA.
9. IF SUCH AN IMPERVIOUS REPAIR MUST BE MADE WITHIN THE FOOTPRINT OF AN INFILTRATION BMP, THE ENGINEER OF RECORD SHALL CONTACT THE DEPARTMENT AND SHALL COORDINATE NO LOSS IN INFILTRATION CAPACITY OF THE POSM BMP.
10. DUE TO THE VARIABLE NATURE OF SINKHOLES, THEY SHALL BE REPAIRED UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.



SINKHOLE REPAIR WITH SOIL COVER  
N.T.S.

NOTES:

1. DETAIL ADAPTED FROM USDA NRCS; FROM E&S POLLUTION CONTROL MANUAL 363-2134-008.
2. LOOSE MATERIAL SHALL BE EXCAVATED FROM THE SINKHOLE AND EXPOSE SOLUTION VOID(S) IF POSSIBLE. ENLARGE SINKHOLE IF NECESSARY TO ALLOW FOR INSTALLATION OF FILTER MATERIALS. OSHA REGULATIONS MUST BE FOLLOWED AT ALL TIMES DURING EXCAVATION.
3. SELECT FIELD STONE(S) ABOUT 1.5 TIMES LARGER THAN SOLUTION VOID(S) TO FORM "BRIDGE". PLACE ROCK(S) SO NO LARGE OPENINGS EXIST ALONG THE SIDES. STONES USED FOR THE "BRIDGE" AND FILTERS SHALL HAVE A MODERATELY HARD ROCK STRENGTH AND BE RESISTANT TO ABRASION AND DEGRADATION. SHALE AND SIMILAR SOFT AND/OR NON-DURABLE ROCK ARE NOT ACCEPTABLE.
4. MINIMUM THICKNESS OF R-3 ROCK IS 18". AASHTO #57 STONE THICKNESS SHALL BE A MINIMUM OF 9" THICK. MINIMUM THICKNESS OF TYPE A SAND SHALL BE 9". NOTE: A NON-WOVEN GEOTEXTILE WITH A BURST STRENGTH BETWEEN 100 AND 200 PSI MAY BE SUBSTITUTED FOR THE AASHTO #57 STONE AND TYPE A SAND.
5. SOIL SHALL BE MINERAL SOIL WITH AT LEAST 12% FINES AND OVERFILLED BY 5% TO ALLOW FOR SETTLEMENT. SUITABLE SOIL FROM THE EXCAVATION MAY BE USED. ANY AVAILABLE TOPSOIL SHALL BE PLACED ON TOP SURFACE.
6. PERVIOUS SINKHOLE REPAIRS SHALL NOT BE INSTALLED WITHIN THE FOOTPRINT OF STORMWATER MANAGEMENT FACILITIES WHICH STORE, POND, OR INFILTRATE WATER. THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.
7. DUE TO THE VARIABLE NATURE OF SINKHOLES, THEY SHALL BE REPAIRED UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.

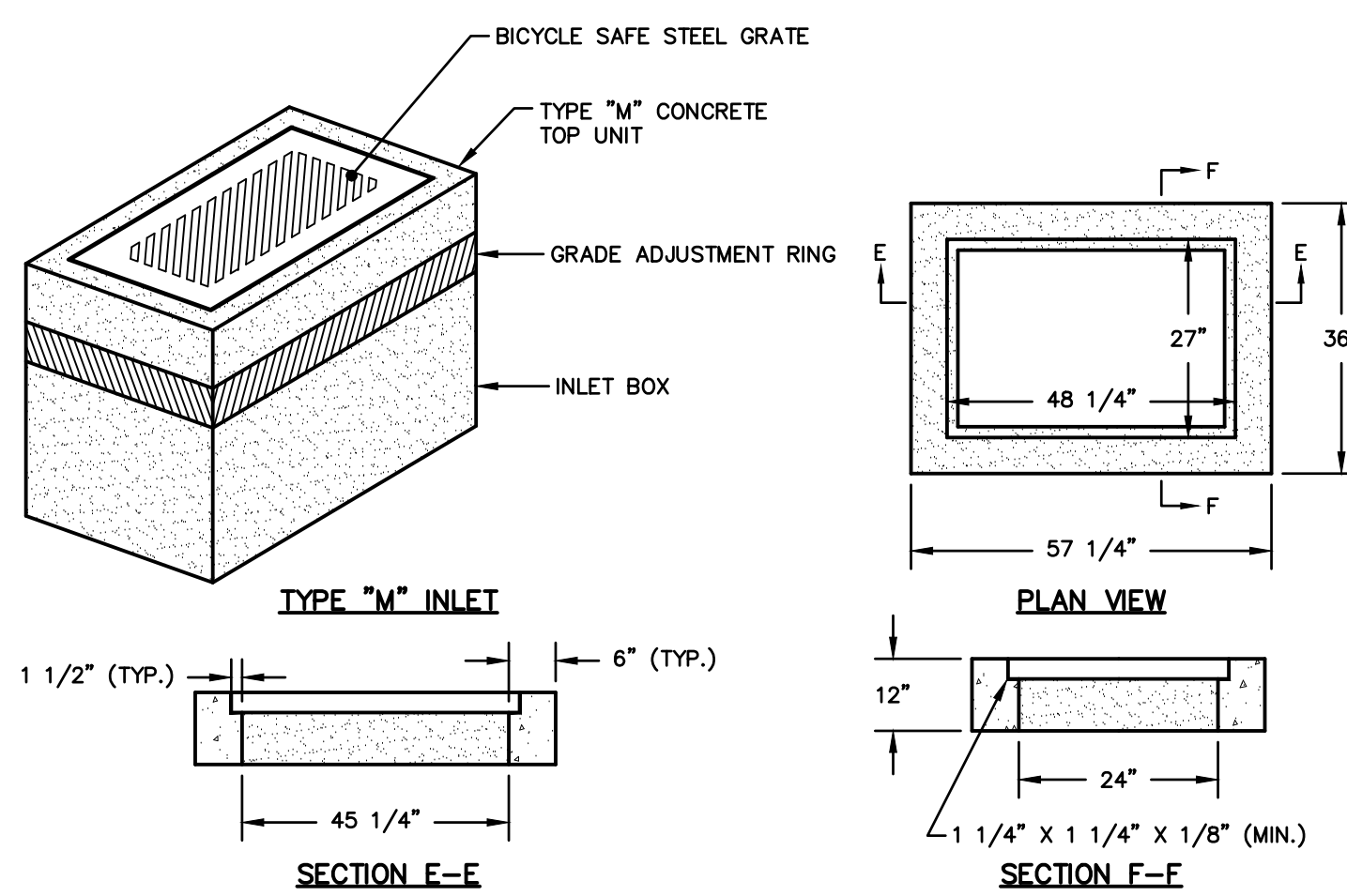


TYPE "C" INLET

NOTE:

1. ALL INLET TOPS AND BOXES SHALL BE IN ACCORDANCE WITH PENNDOT RC STANDARDS RC-45M AND RC-46M

TYPE "C" CONCRETE INLET TOP DETAIL  
N.T.S.

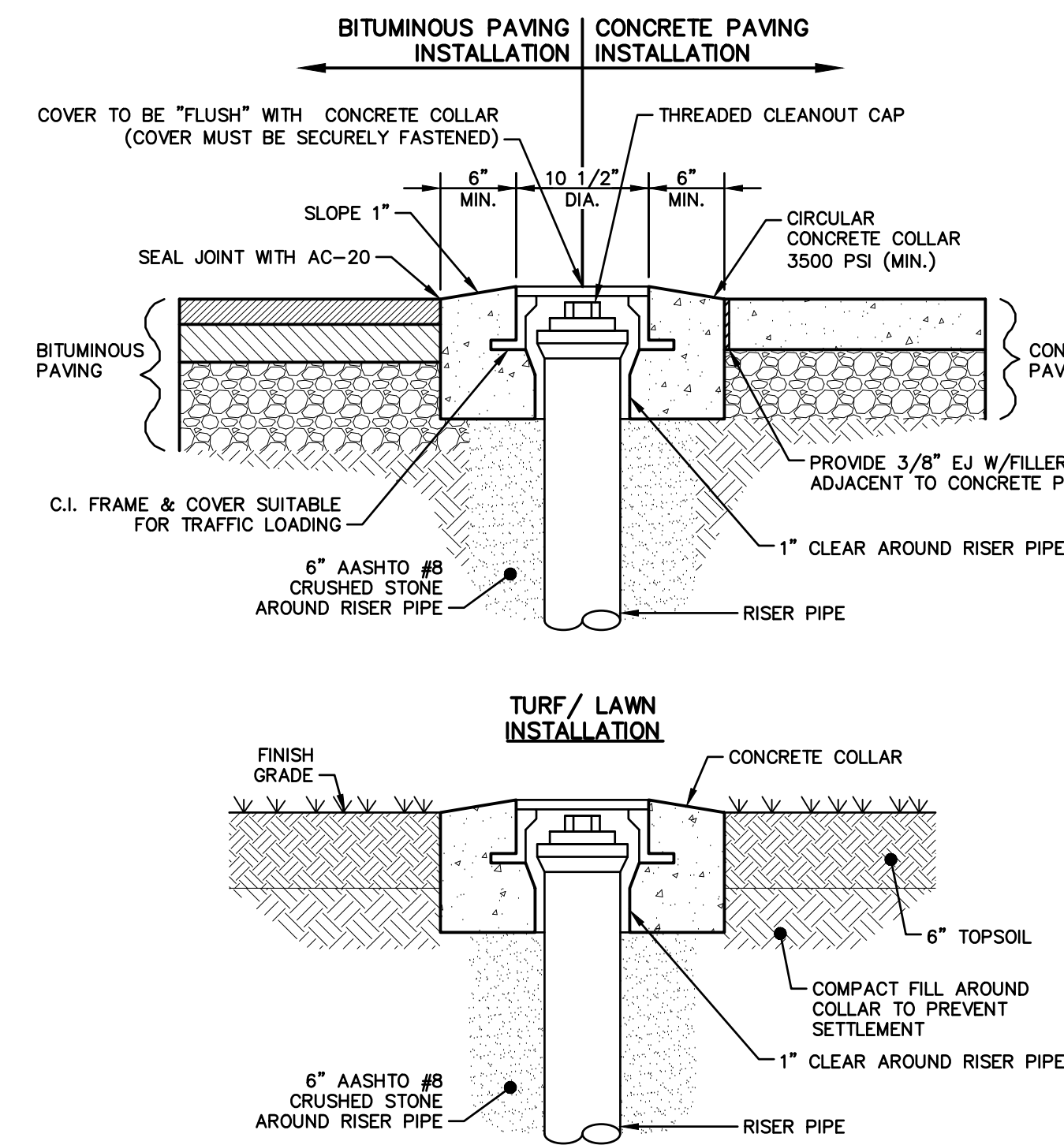


TYPE "M" INLET

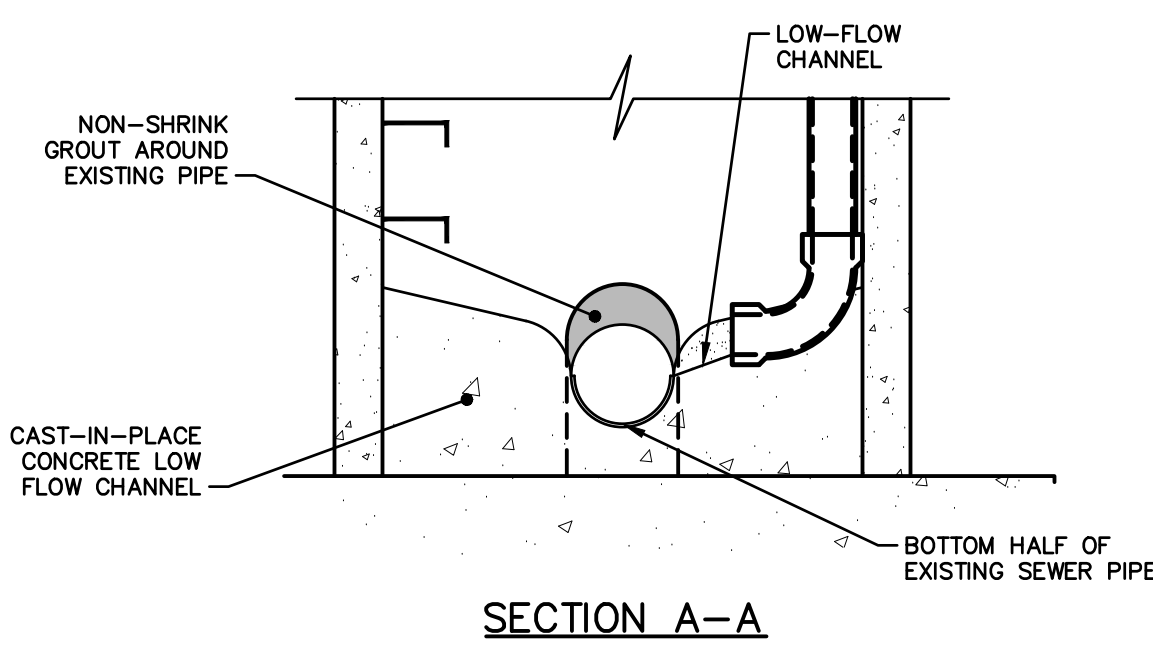
NOTE:

1. ALL INLET TOPS AND BOXES SHALL BE IN ACCORDANCE WITH PENNDOT RC STANDARDS RC-45M AND RC-46M

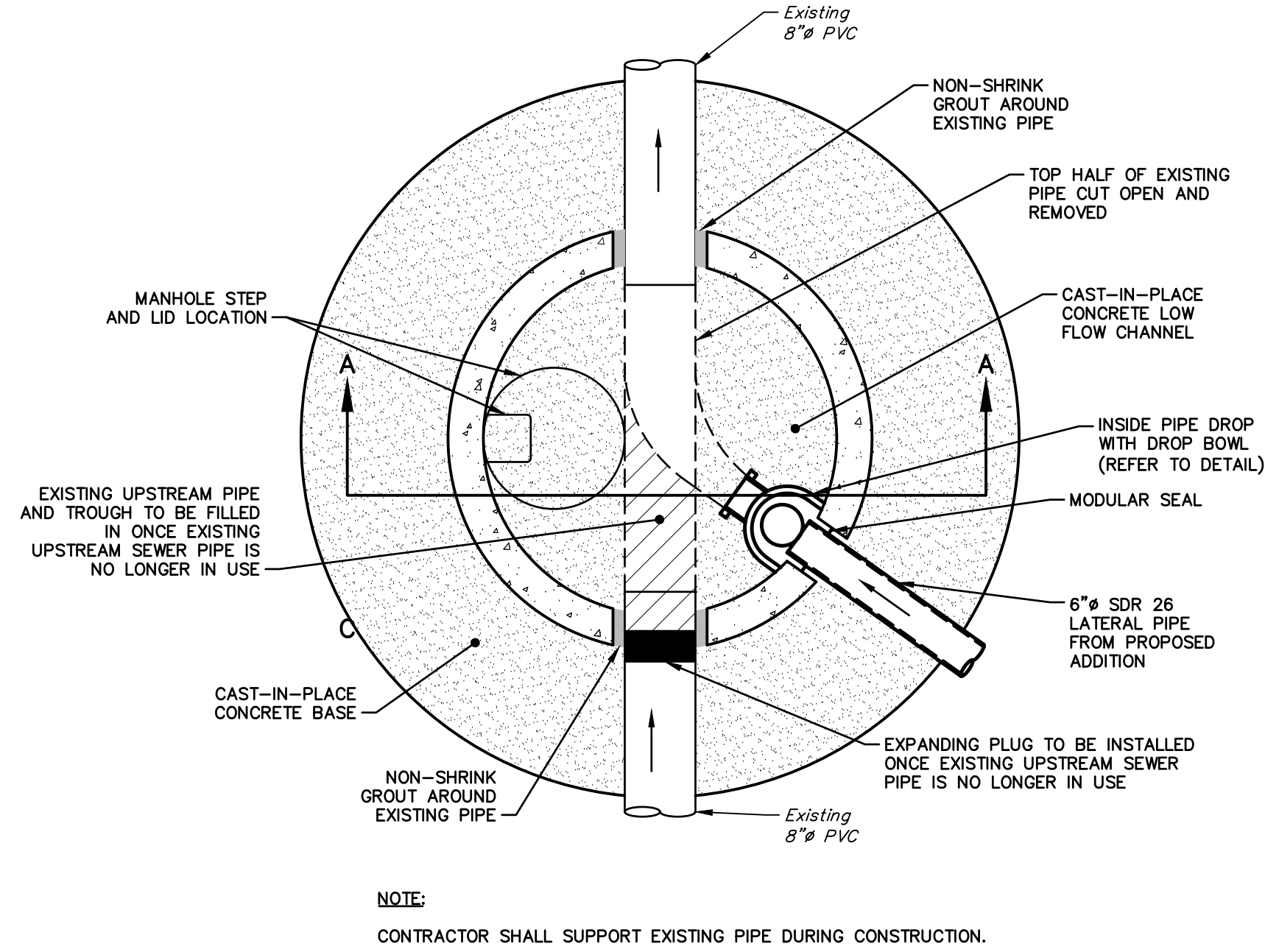
TYPE "M" CONCRETE INLET TOP DETAIL  
N.T.S.



CLEANOUT COVER DETAIL  
N.T.S.

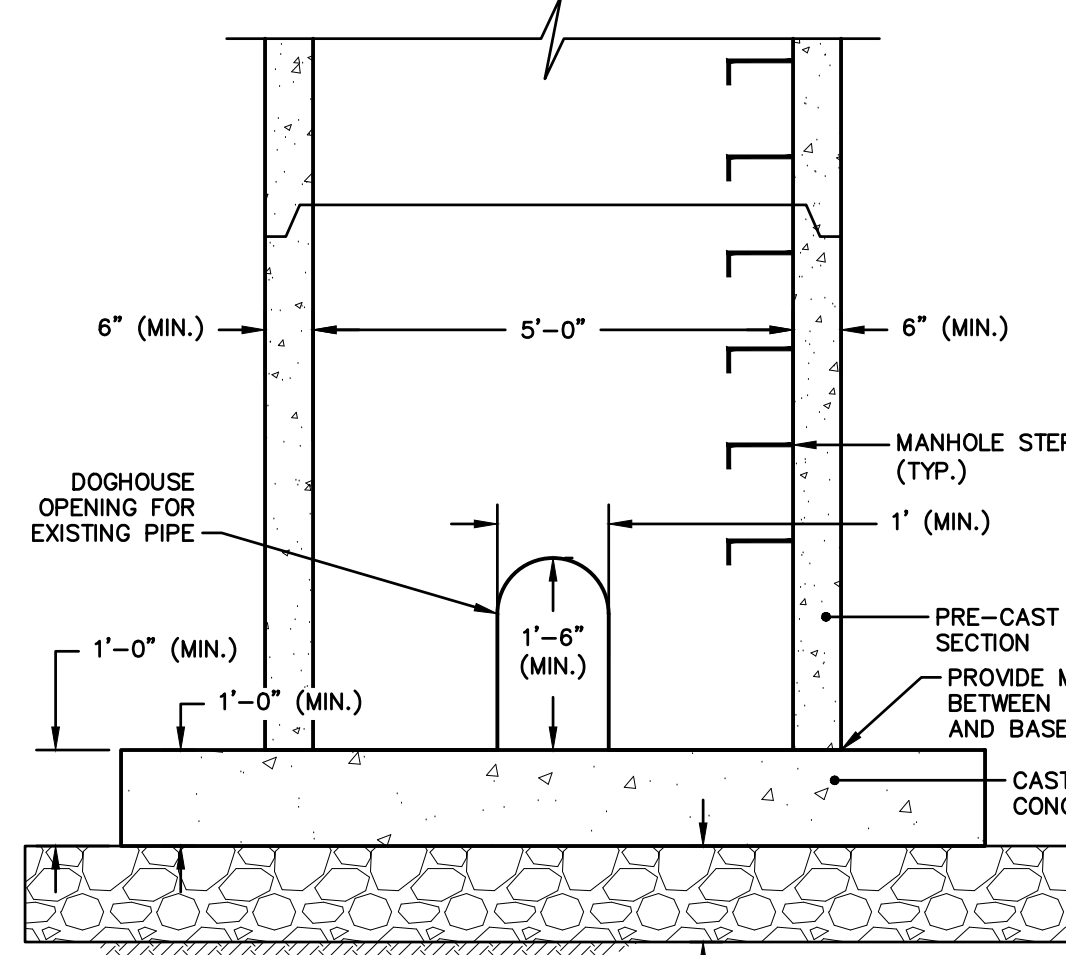


SECTION A-A

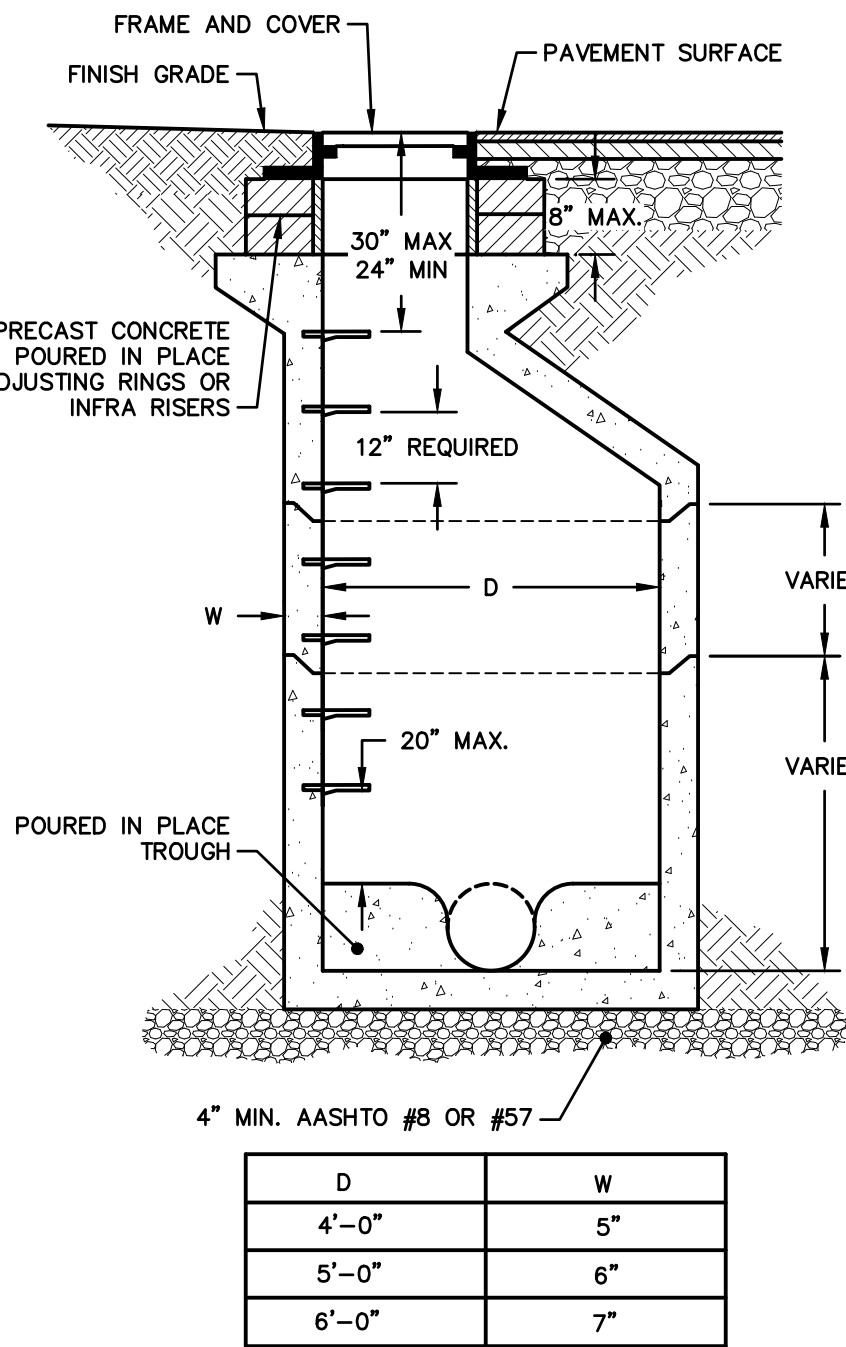


SEWER MANHOLE TROUGH DETAIL  
N.T.S.

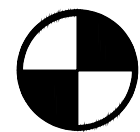
SEWER MANHOLE TROUGH DETAIL  
N.T.S.



TYPICAL MANHOLE DOGHOUSE  
BOTTOM SECTION DETAIL  
N.T.S.



TYPICAL SANITARY SEWER MANHOLE DETAIL  
N.T.S.



**C.S. DAVIDSON INC.**  
ENGINEERING A BETTER COMMUNITY

38 NORTH DUKE STREET, YORK, PA • PHONE (717) 846-4805  
50 WEST MIDDLE STREET, GETTYSBURG, PA • PHONE (717) 337-3921  
315 W. JAMES STREET, SUITE 102, LANCASTER, PA • PHONE (717) 481-2981  
WWW.CSDAVIDSON.COM

**BUCHART HORN**  
ARCHITECTS

ARCHITECT  
1017 E. 17th St.  
York, PA 17402  
717.337.1400  
FACILITY MANAGER  
1017 E. 17th St.  
York, PA 17402  
717.337.1400  
REGISTERED ARCHITECT  
1017 E. 17th St.  
York, PA 17402  
717.337.1400

YORK COUNTY CENTRAL BOOKING RELOCATION

3400 CONCORD ROAD  
YORK, PA 17402

SPRINGETTSBURY TOWNSHIP, YORK COUNTY

YORK COUNTY BOARD OF COMMISSIONERS

28 EAST 8TH STREET  
YORK, PA 17401

REVISIONS  
MARK ISSUED DATE DESCRIPTION

PROJECT NO. 77332-07

ISSUED DATE: 03/27/23

DRAWN BY: DPA

CHECKED BY: JCW

0 BUCHART HORN, INC.

SHEET TITLE

DETAILS

ISSUED FOR BID

C6-02