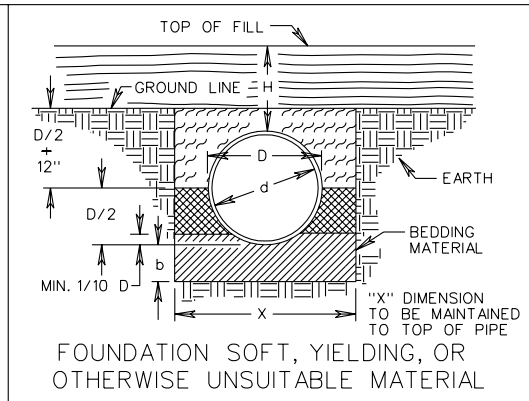
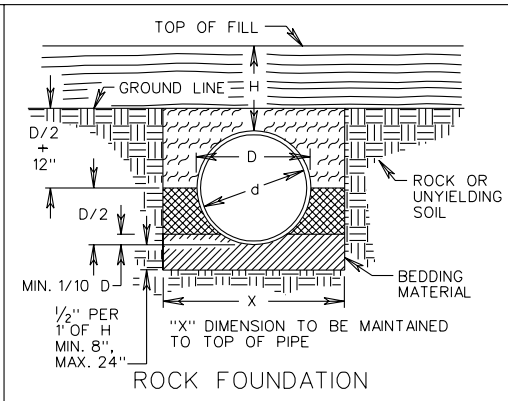
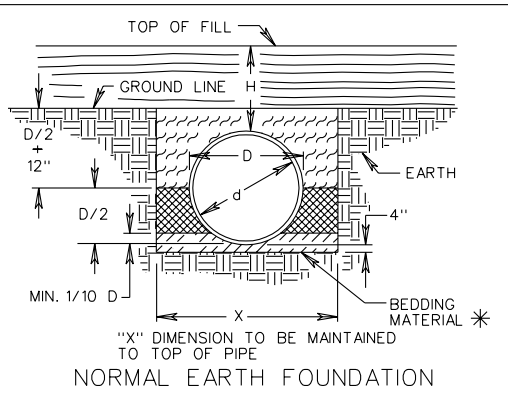
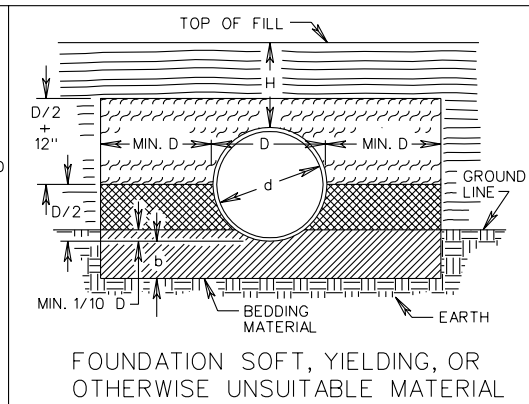
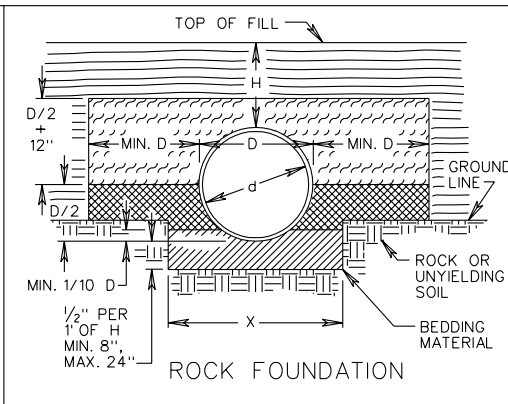
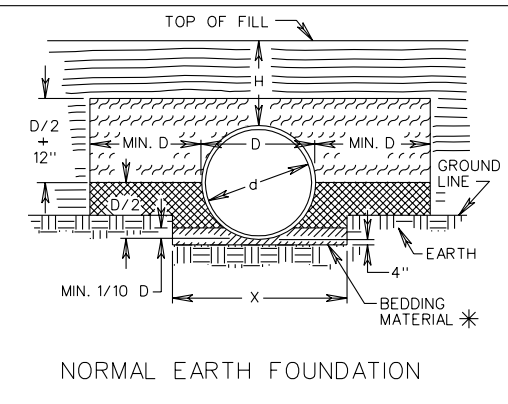


NO PROJECTION OF PIPE ABOVE GROUND LINE



PIPE PROJECTION ABOVE GROUND LINE



CULVERTS LESS THAN $d = 36''$
 $X = D + 24''$
 CULVERTS WHERE $d = 36''$ AND OVER
 $X = D + 36''$
 METHOD "A" PIPE BEDDING SHALL BE USED AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS:
RIGID PIPE
 WHEN H IS LESS THAN OR EQUAL TO 30'
FLEXIBLE PIPE
 AS SHOWN ON TABLES
 * MAY BE ELIMINATED UNDER ENTRANCE PIPE EXCEPT FOR PLASTIC PIPE INSTALLATIONS, WHERE DIRECTED BY THE ENGINEER.

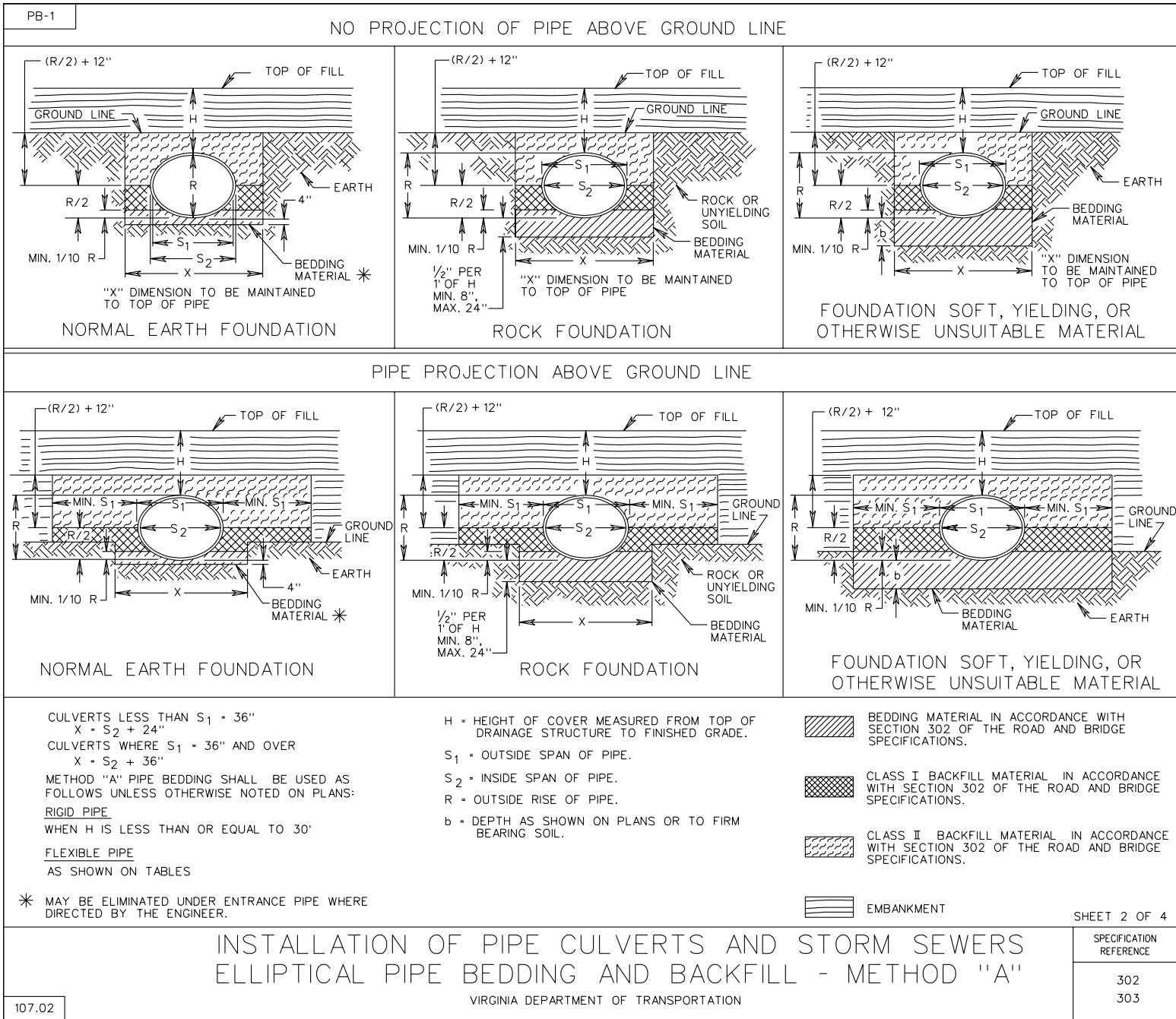
H = HEIGHT OF COVER MEASURED FROM TOP OF DRAINAGE STRUCTURE TO FINISHED GRADE.
 D = OUTSIDE DIAMETER OF PIPE.
 d = INSIDE DIAMETER OF PIPE.
 b = DEPTH AS SHOWN ON PLANS OR TO FIRM BEARING SOIL.
 ** FOR PLASTIC PIPE INSTALLATIONS, CLASS I BACKFILL MATERIAL SHALL BE USED IN LIEU OF CLASS II.

- BEDDING MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- CLASS I BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- CLASS II BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS. **
- EMBANKMENT

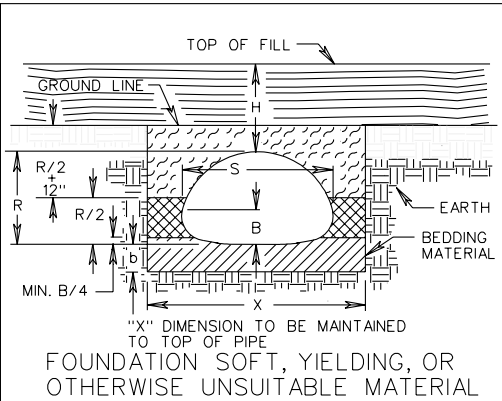
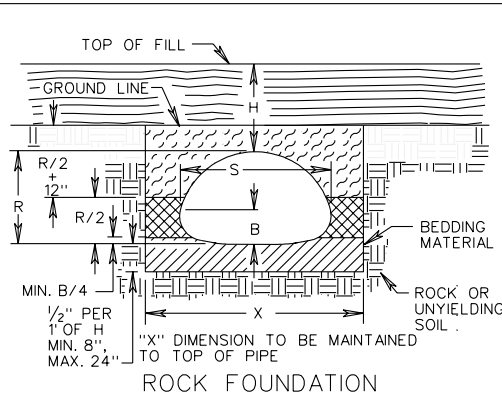
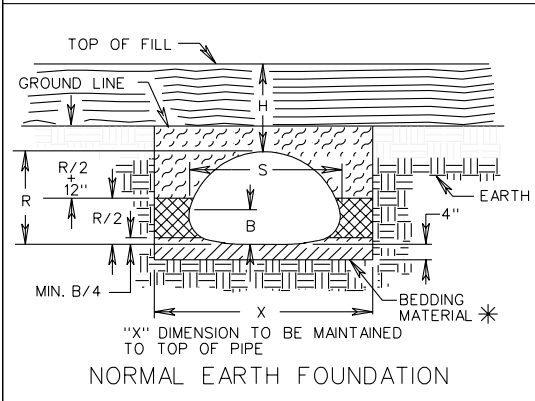
SPECIFICATION REFERENCE
302
303

INSTALLATION OF PIPE CULVERTS AND STORM SEWERS
 CIRCULAR PIPE BEDDING AND BACKFILL - METHOD "A"

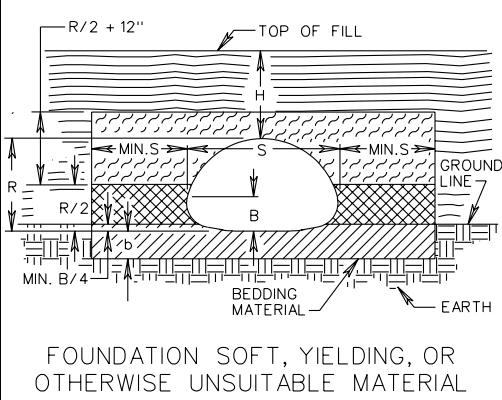
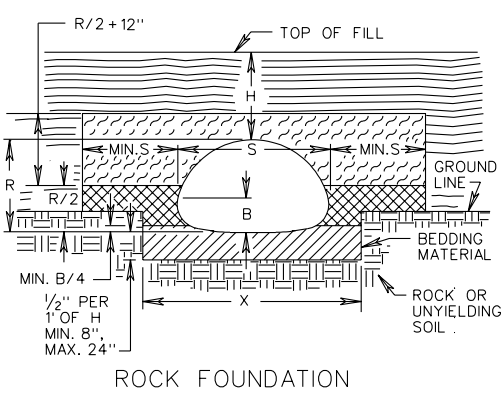
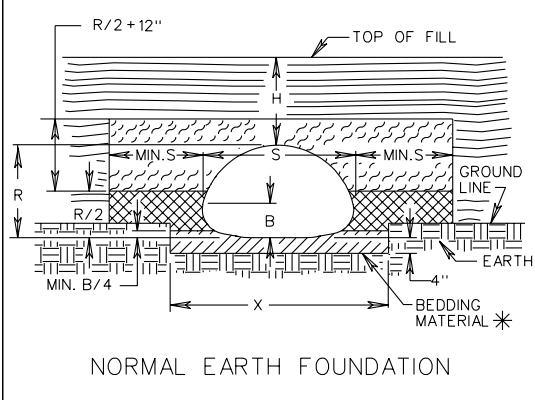
VIRGINIA DEPARTMENT OF TRANSPORTATION



NO PROJECTION OF PIPE ARCH ABOVE GROUND LINE



PIPE ARCH PROJECTION ABOVE GROUND LINE



SPANS (S) LESS THAN 36"
 $X = S + 24"$
 SPANS (S) GREATER THAN 36"
 $X = S + 36"$

* MAY BE ELIMINATED UNDER ENTRANCE PIPE WHERE DIRECTED BY THE ENGINEER.

H = HEIGHT OF COVER MEASURED FROM TOP OF DRAINAGE STRUCTURE TO FINISHED GRADE.
 S = SPAN
 R = RISE
 B = SEE STANDARD PC-1 FOR SPECIFIC PIPE MATERIAL.
 b = DEPTH AS SHOWN ON PLANS OR TO FIRM BEARING SOIL.

- BEDDING MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- CLASS I BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- CLASS II BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- EMBANKMENT

SPECIFICATION REFERENCE 302 303	<h2 style="margin: 0;">INSTALLATION OF PIPE CULVERTS AND STORM SEWERS</h2> <h3 style="margin: 0;">PIPE ARCH BEDDING AND BACKFILL</h3> <p style="margin: 0;">VIRGINIA DEPARTMENT OF TRANSPORTATION</p>	107.03
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