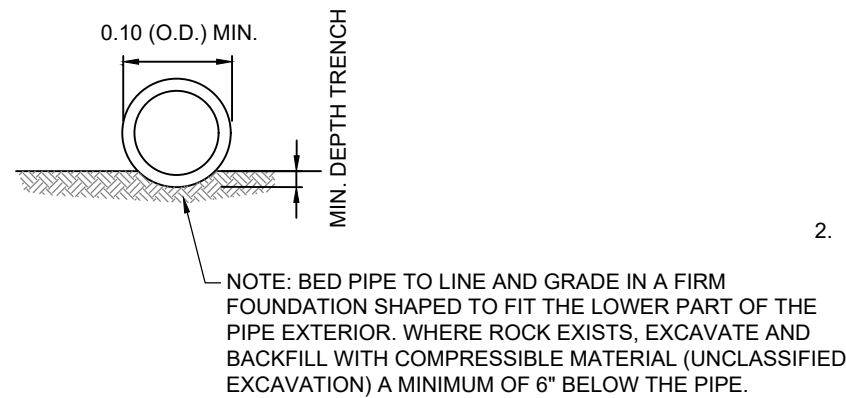


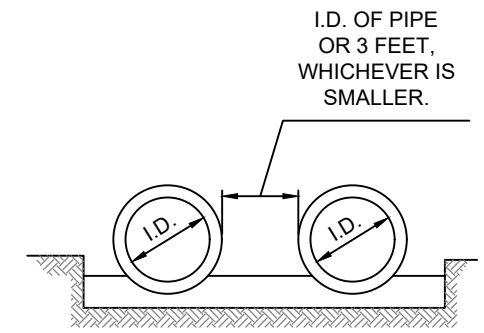
DETAIL OF TRENCH CONSTRUCTION
N.T.S.



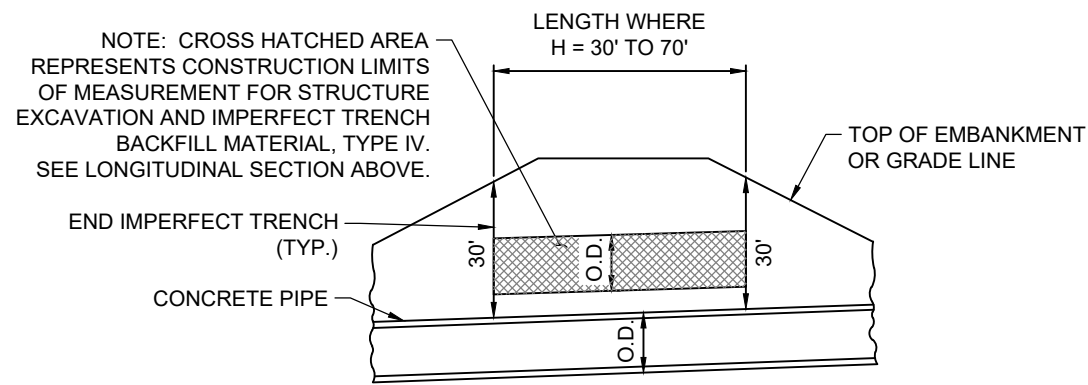
DETAIL OF TRENCH CONSTRUCTION FOR SIDE DRAIN AND MEDIAN DRAIN PIPE
N.T.S.

NOTES:

1. PE PIPE IS ALLOWABLE FOR THE FOLLOWING CONDITIONS:
 - A. PE PIPE MAY BE USED AS AN ALTERNATE TO LONGITUDINAL PIPE UNDER ALLOWABLE FILL SHOWN, FOR NON- TRAFFIC BEARING AND LOCAL ROAD BEARING APPLICATIONS.
 - B. PIPE MAY BE USED AS AN ALTERNATE TO PERFORATED UNDERDRAIN PIPE.
 - C. PE PIPE IS ALLOWABLE IN ALL SIDE DRAIN AND SLOPE DRAIN APPLICATIONS.
2. FOR PIPE-ARCH CULVERTS, SUBSTITUTE SPAN AND RISE FOR OUTSIDE DIAMETER OF PIPE IN HORIZONTAL AND VERTICAL DIMENSIONS SPECIFIED IN DETAIL.

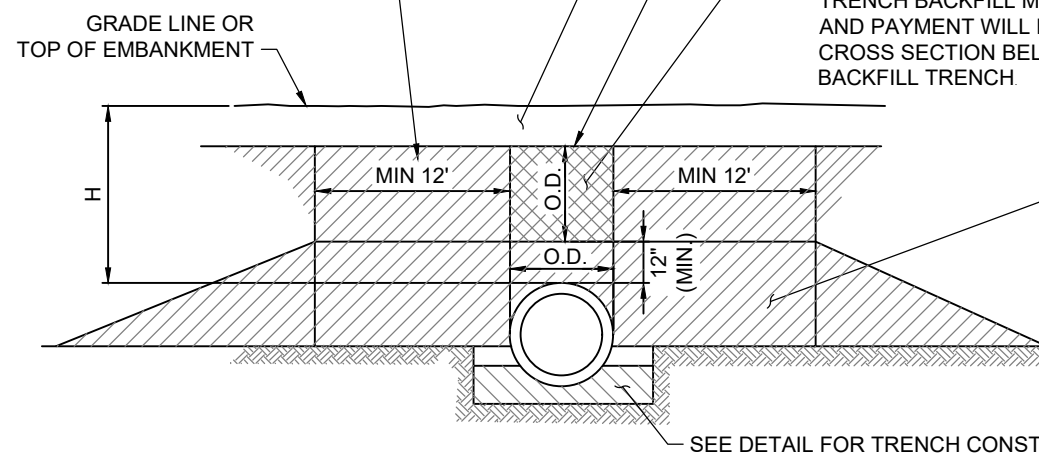


SPACING FOR MULTIPLE PIPE CULVERTS
N.T.S.



CROSS SECTION OF IMPERFECT TRENCH BACKFILL
N.T.S.

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER TO 100% MAXIMUM DENSITY ON BOTH SIDES OF THE PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENT.



LONGITUDINAL SECTION OF IMPERFECT BACKFILL AND BACKFILL METHODS
N.T.S.

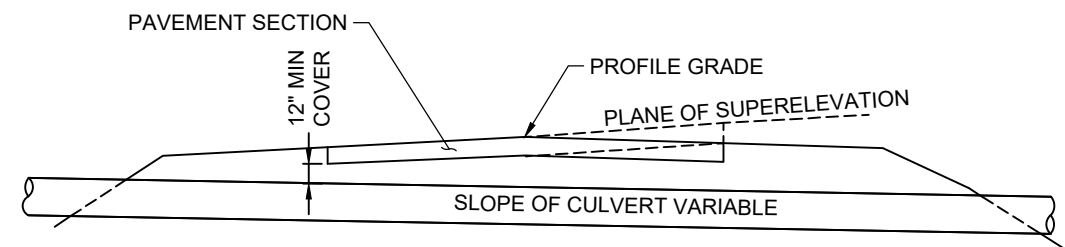
AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS.

EMBANKMENT TO BE PLACED TO THIS ELEVATION BEFORE TRENCH FOR IMPERFECT BACKFILL IS EXCAVATED.

USE IMPERFECT BACKFILL WITH CONCRETE PIPE ONLY, WHERE THE HEIGHT OF EMBANKMENT OVER PIPE IS 30 FEET OR MORE. CROSS HATCHED AREA REPRESENTS LIMITS OF STRUCTURE EXCAVATION AND IMPERFECT TRENCH BACKFILL MATERIAL. TYPE III MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS. SEE CROSS SECTION BELOW FOR LENGTH OF IMPERFECT BACKFILL TRENCH.

NORMAL EMBANKMENT SHALL BE PLACED 12 FT. WIDE (MIN.) ON EACH SIDE OF THE PIPE AND 12 IN. (MIN.) OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS. AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS.

SEE DETAIL FOR TRENCH CONSTRUCTION



DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS
N.T.S.

FULTON COUNTY STANDARD DETAIL 519A

STANDARD PIPE CULVERTS
SHEET 1 OF 3

| DATE | REVISIONS | DATE | REVISIONS |
|------|-----------|------|-----------|
| M/Y | XXX | M/Y | XXX |
| | | | |
| | | | |
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DGS/DRN/CHKD: XXX

APPROVED: XXX

DATE: XX-X-XX



FULTON COUNTY PUBLIC WORKS
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DRAWING NO.

519A