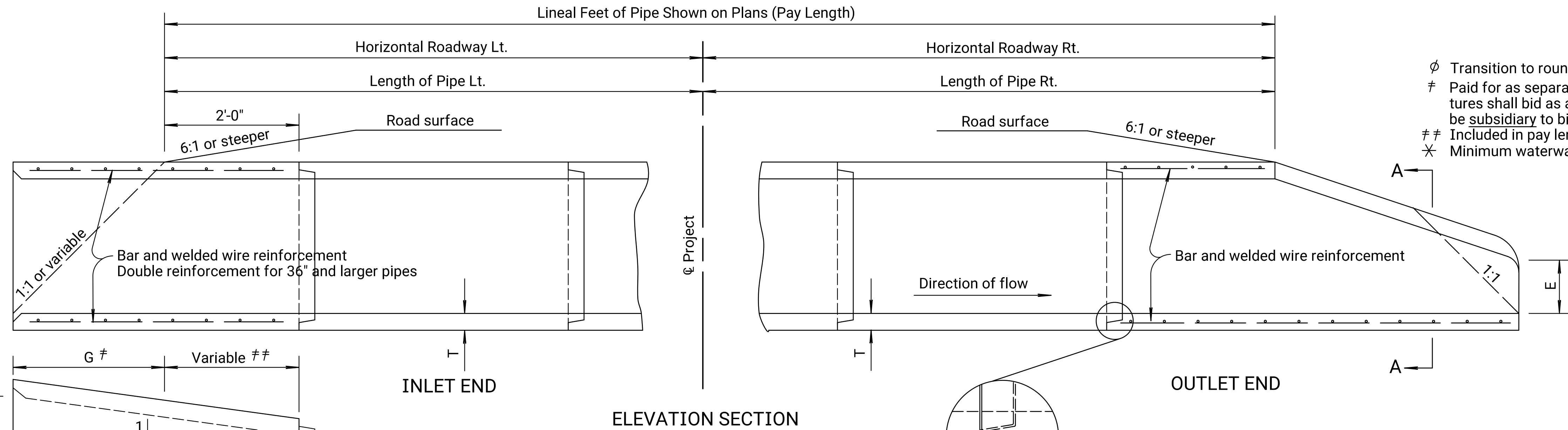
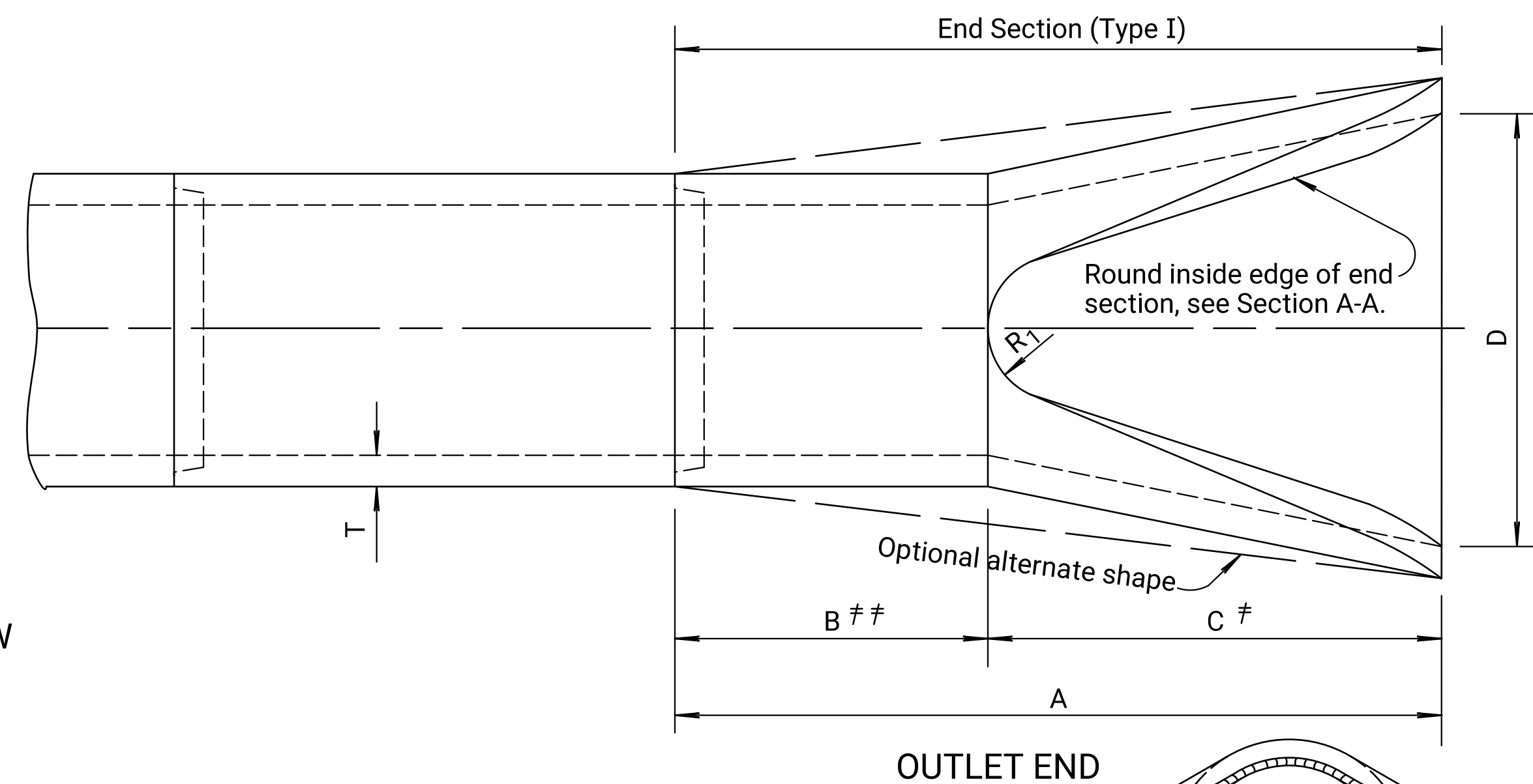
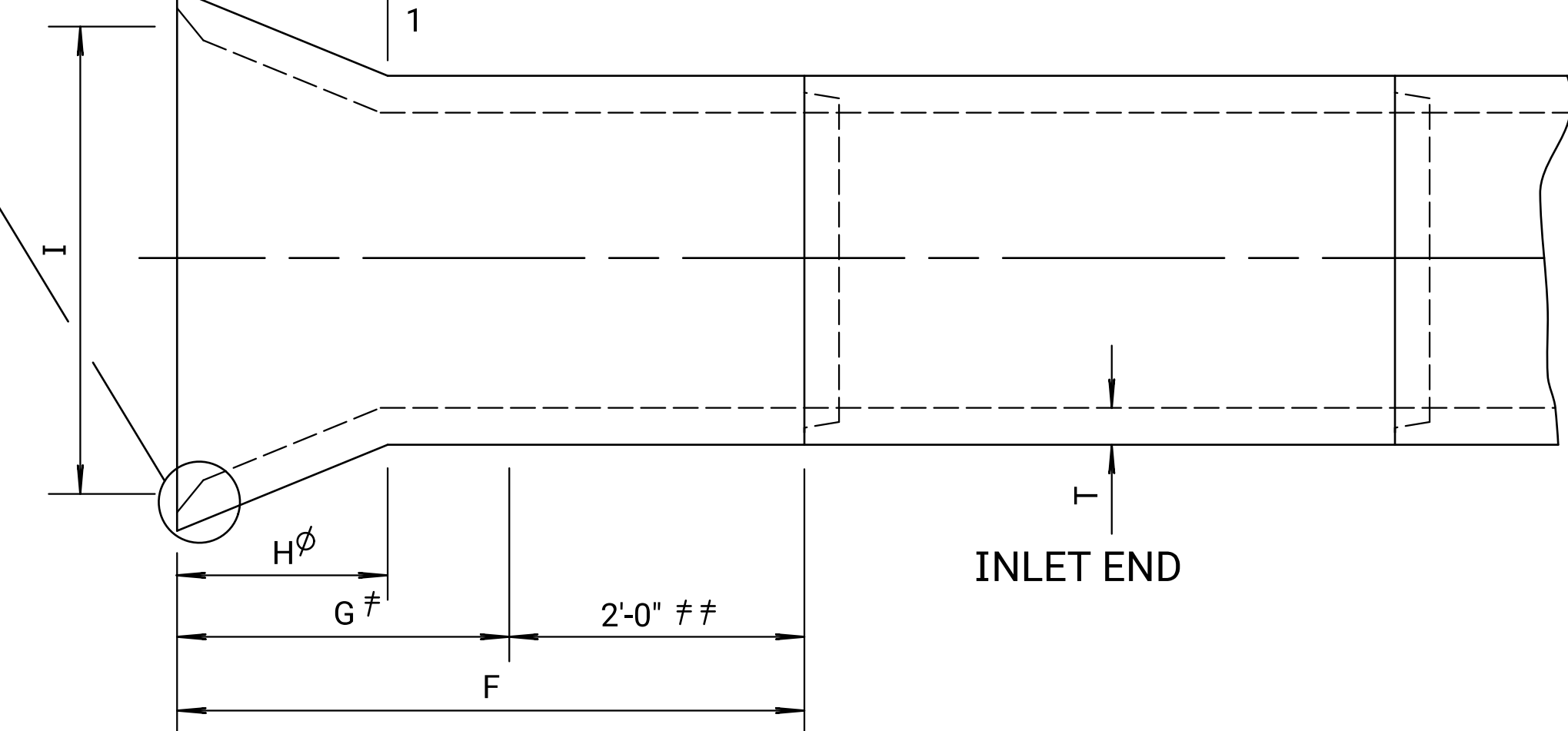
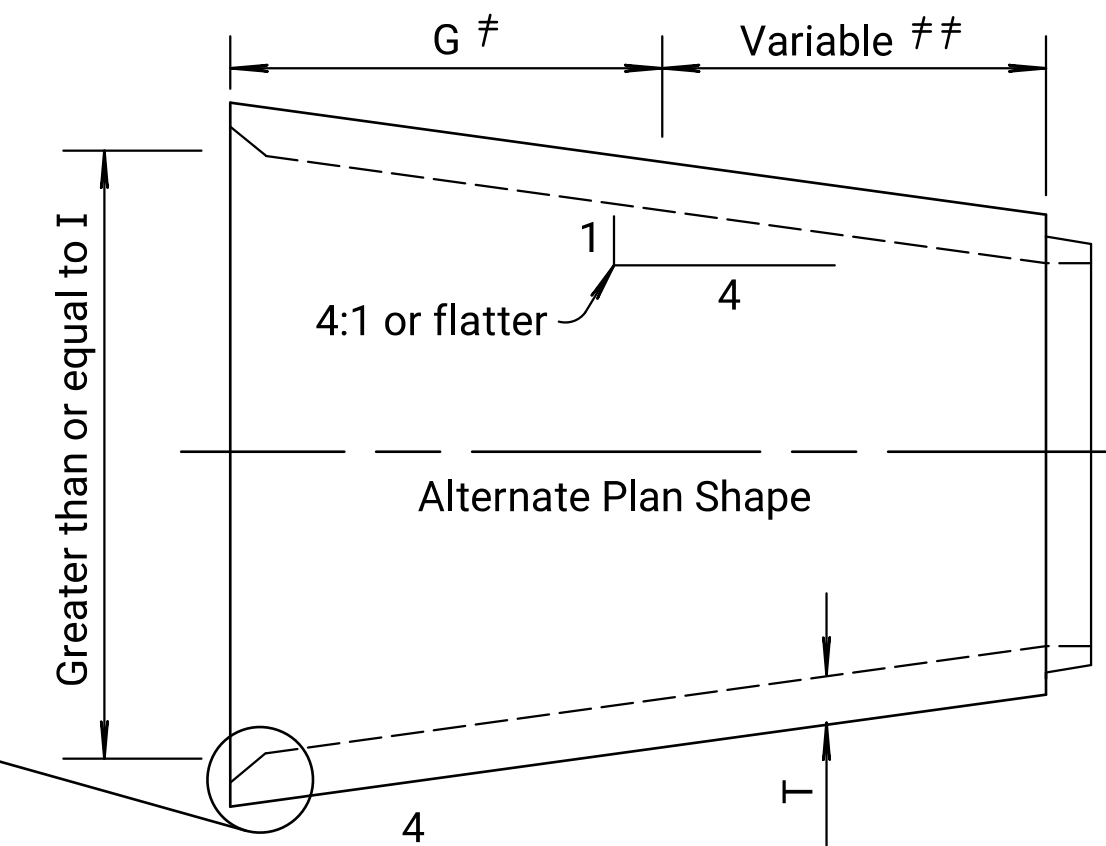
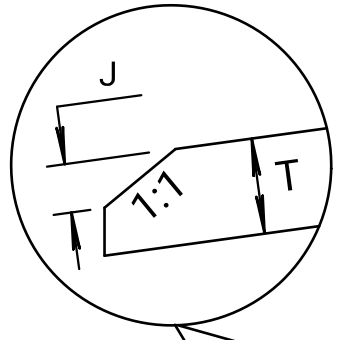


Note to Designer: KDOT Pipe Policy provides guidance in identifying the prohibited and/or restricted uses of CSP, ACSP, PEP, PVC, CAP & RCP. Provide end sections of the same type and coating as the pipe. Exceptions to this are noted in the Standard Specifications. Refer to the KDOT Design Manual, Volume I (Part C), Road Section, "Elements of Drainage & Culvert Design" for structural pipe design information which includes: corrugations, sizes, gauges, maximum/minimum fill heights and classes of pipe.

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- ∅ Transition to round pipe.
- # Paid for as separate item of End Section, except when structures shall bid as alternates. In that case End Sections shall be subsidiary to bid item. "Drainage Structure No. ".
- # # Included in pay length of pipe.
- \* Minimum waterway area is calculated at the inside of the bevel.

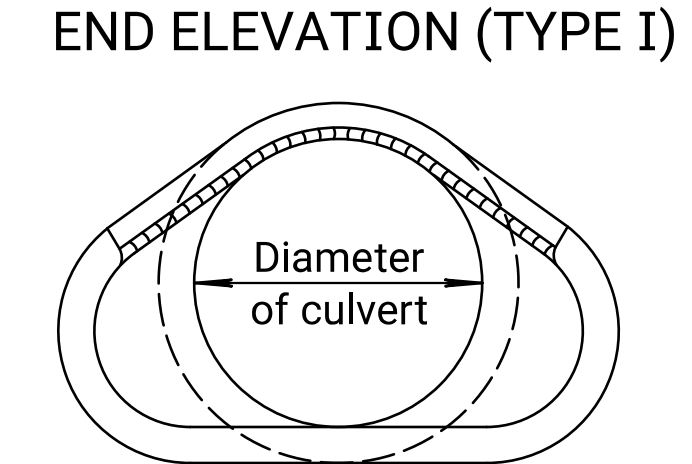
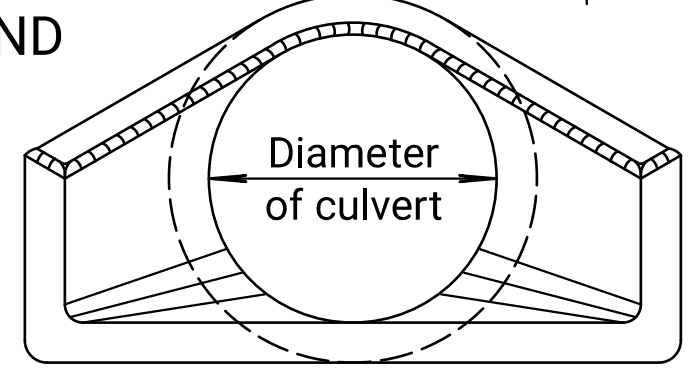


Note: There shall be no payment for gain in length due to joint fit tolerance.

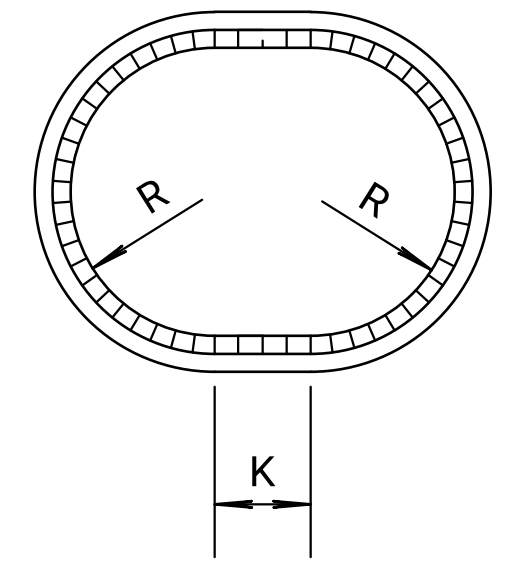
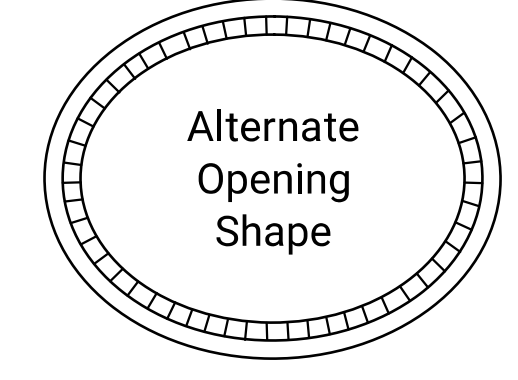
| END SECTION (TYPE I) NOMINAL DIMENSIONS |           |            |           |        |        |                |        |        |
|---|-----------|------------|-----------|--------|--------|----------------|--------|--------|
| Diam.                                   | A         | B # #      | C #       | D      | E      | R <sub>i</sub> | Slope  | T      |
| 12"                                     | 6'-0 7/8" | 4'-0 7/8"  | 2'-0"     | 2'-0"  | 4"     | 9              | 3:1    | 2"     |
| 15"                                     | 6'-1"     | 3'-10"     | 2'-3"     | 2'-6"  | 6"     | 11             | 3:1    | 2 1/4" |
| 18"                                     | 6'-1"     | 3'-10"     | 2'-3"     | 3'-0"  | 9"     | 12             | 3:1    | 2 1/2" |
| 24"                                     | 6'-1 1/2" | 2'-6"      | 3'-7 1/2" | 4'-0"  | 9 1/2" | 14             | 3:1    | 3"     |
| 30"                                     | 6'-1 3/4" | 1'-7 3/4"  | 4'-6"     | 5'-0"  | 1'-0"  | 15             | 3:1    | 3 1/2" |
| 36"                                     | 8'-1 3/4" | 2'-10 3/4" | 5'-3"     | 6'-0"  | 1'-3"  | 20             | 3:1    | 4"     |
| 42"                                     | 8'-2"     | 2'-11"     | 5'-3"     | 6'-6"  | 1'-9"  | 22             | 3:1    | 4 1/2" |
| 48"                                     | 8'-2"     | 2'-2"      | 6'-0"     | 7'-0"  | 2'-0"  | 22             | 3:1    | 5"     |
| 54"                                     | 8'-2 1/4" | 2'-9 1/4"  | 5'-5"     | 7'-6"  | 2'-3"  | 24             | 2.4:1  | 5 1/2" |
| 60"                                     | 8'-3"     | 3'-3"      | 5'-0"     | 8'-0"  | 2'-11" | 24             | 2:1    | 6"     |
| 72"                                     | 8'-3"     | 1'-9"      | 6'-6"     | 9'-0"  | 3'-0"  | 24             | 1.86:1 | 7"     |
| 84"                                     | 9'-3 1/2" | 1'-9"      | 7'-6 1/2" | 10'-0" | 3'-0"  | 24             | 1.6:1  | 8"     |

| SIDE TAPERED INLET SECTION (TYPE III)-NOMINAL DIMENSIONS |                         |            |            |            |       |        |       |       |        |
|--|-------------------------|------------|------------|------------|-------|--------|-------|-------|--------|
| Diam.  | Min. W.W.* Area Sq. Ft. | F          | G          | H          | I     | J      | K     | R     | T      |
| 24"  | 4.5                     | 4'-3"      | 2'-3"      | 1'-5 1/8"  | 2'-8" | 1 1/2" | 8"    | 1'-0" | 3"     |
| 30"  | 7.0                     | 4'-9 1/2"  | 2'-9 1/2"  | 1'-9 1/2"  | 3'-4" | 2"     | 10"   | 1'-3" | 3 1/2" |
| 36"  | 10.1                    | 5'-4"      | 3'-4"      | 2'-1 1/2"  | 4'-0" | 2"     | 1'-0" | 1'-6" | 4"     |
| 42"  | 13.7                    | 5'-10 1/2" | 3'-10 1/2" | 2'-5 7/8"  | 4'-8" | 2 1/2" | 1'-2" | 1'-9" | 4 1/2" |
| 48"  | 17.9                    | 6'-5"      | 4'-5"      | 2'-10 1/8" | 5'-4" | 3"     | 1'-4" | 2'-0" | 5"     |
| 54"  | 22.7                    | 6'-11 1/2" | 4'-11 1/2" | 3'-2 1/2"  | 6'-0" | 3 1/2" | 1'-6" | 2'-3" | 5 1/2" |
| 60"  | 28.0                    | 7'-6"      | 5'-6"      | 3'-6 7/8"  | 6'-8" | 4"     | 1'-8" | 2'-6" | 6"     |
| 72"  | 40.3                    | 8'-7"      | 6'-7"      | 4'-3 3/8"  | 8'-0" | 5"     | 2'-0" | 3'-0" | 7"     |
| 84"  | 54.8                    | 9'-8"      | 7'-8"      | 5'-0 3/8"  | 9'-4" | 6"     | 2'-4" | 3'-6" | 8"     |

Dimensions for alternate shapes shall be equal to or greater than those shown in the table, unless otherwise shown.



SECTION A-A  
Showing rounding of inside edge of end section.



END ELEVATION (TYPE III)

CONSULTANTS:

WEST STREET IMPROVEMENTS  
FROM PAWNEE TO HARRY  
WICHITA, KANSAS  
CITY OF WICHITA

| REVISIONS: | DESCRIPTION | MARK | DATE |
|------------|-------------|------|------|
|            |             |      |      |
|            |             |      |      |
|            |             |      |      |
|            |             |      |      |

PROJ NO: 87 N-0720-01  
SCALE: 1"=1'  
DATE: 9/25/2023  
DESIGNED BY: -  
DRAWN BY: -  
CHECKED BY: -

SHEET TITLE:  
**CONCRETE END SECTION DETAIL**

SHEET NO.  
**91**