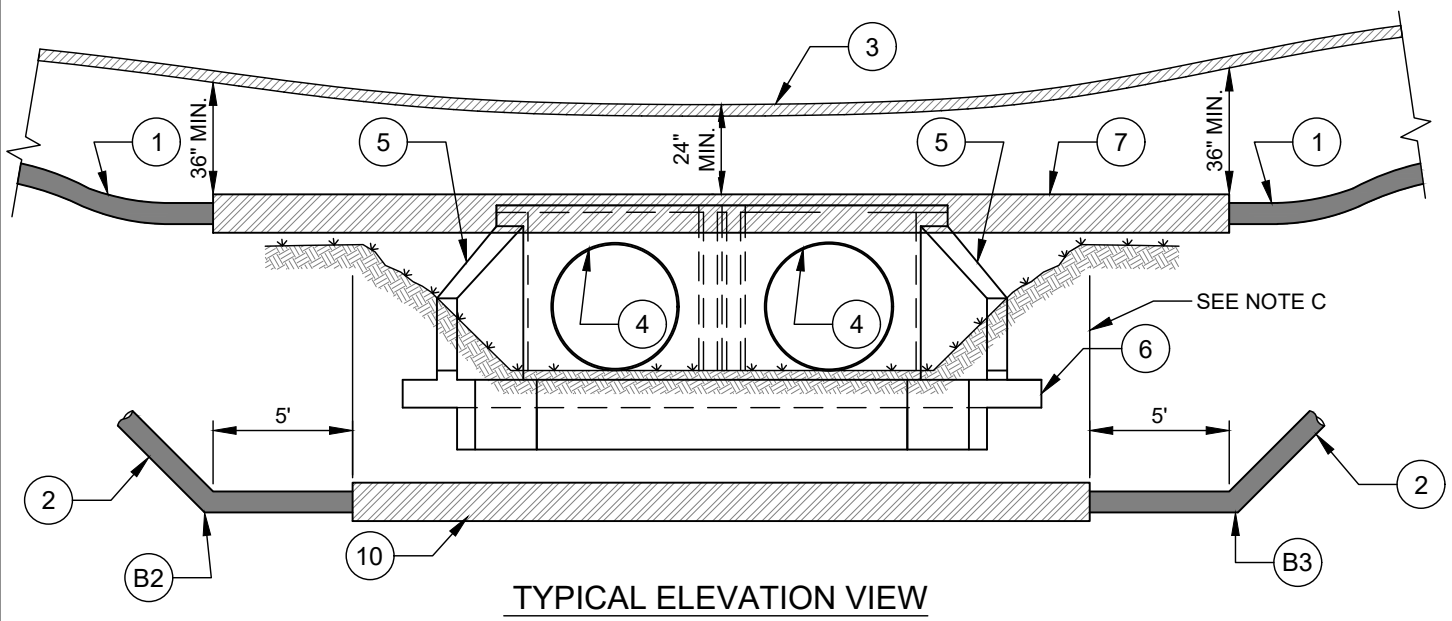


TYPICAL PLAN VIEW



TYPICAL ELEVATION VIEW

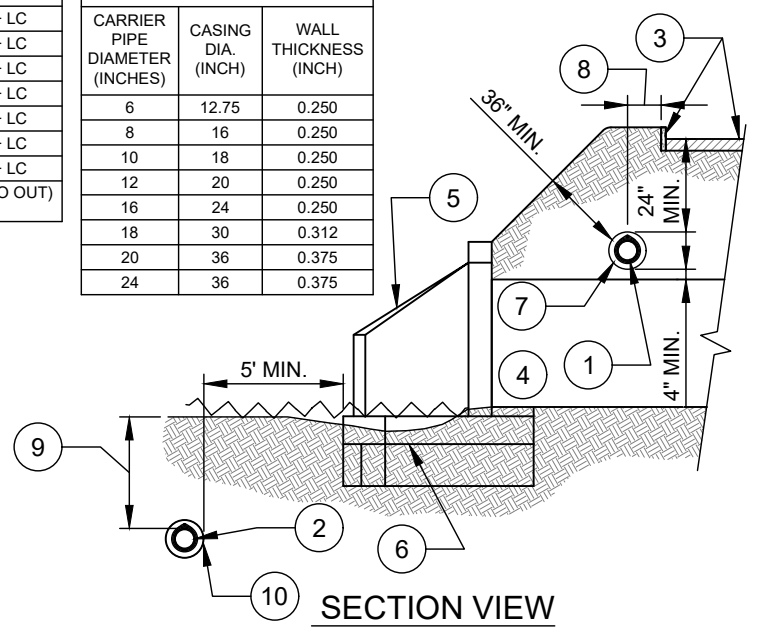
MINIMUM RESTRAINED LENGTH FOR PREFERRED LOCATION #1

CARRIER PIPE DIAMETER (INCHES)	LR (FEET)	TOTAL RESTRAINED LENGTH (FEET)
6	100	200 + LC
8	125	250 + LC
10	155	310 + LC
12	180	360 + LC
16	230	460 + LC
18	250	500 + LC
20	275	550 + LC
24	315	630 + LC

LC = CULVERT WIDTH (OUT TO OUT) - FEET

STEEL CASING PIPE

CARRIER PIPE DIAMETER (INCHES)	CASING DIA. (INCH)	WALL THICKNESS (INCH)
6	12.75	0.250
8	16	0.250
10	18	0.250
12	20	0.250
16	24	0.250
18	30	0.312
20	36	0.375
24	36	0.375



SECTION VIEW

NO. DESCRIPTION:

1. PROPOSED RJ DIP WATER MAIN - PREFERRED LOCATION.
  2. PROPOSED RJ DIP WATER MAIN - OPTIONAL LOCATION.
  3. ROAD WITH CURB AND GUTTER OR EDGE OF PAVEMENT.
  4. CULVERT - PIPE OR BOX.
  5. CULVERT WING WALL.
  6. CULVERT FOOTING.
  7. STEEL ENCASMENT PIPE.
  8. DISTANCE AS INDICATED ON CONSTRUCTION PLANS.
  9. 5' MIN. BELOW CREEK BED - MINIMUM.
  10. STEEL ENCASMENT PIPE - INSTALLATION BY DRY BORE METHOD OR HORIZONTAL DIRECTIONAL DRILL METHOD.
- Bx. BENDS - AS REQUIRED.

NOTES:

- A. IN PREFERRED LOCATION (NO. 1), CASING PIPE (NO. 7) IS REQUIRED WITH LESS THAN 36" COVER AT PIPE CENTER LINE. MINIMUM COVER BASED ON PAVEMENT ELEVATION SHALL BE 24".
- B. STEEL CASING PIPE (NO. 7) MAY NOT BE REQUIRED WHEN MINIMUM COVERS ARE PROVIDED FOR NORMAL PIPE INSTALLATION.
- C. IN OPTIONAL LOCATION (NO. 2), CASING PIPE (NO. 10) SHALL EXTEND FROM TOP OF BANK TO TOP OF BANK - MINIMUM.
- D. ALL PIPE SHALL BE RESTRAINED JOINT DIP FROM BEND B1 TO B4.
- E. RESTRAINED LENGTHS LB1 AND LB4 SHALL BE DETERMINED BY THE ENGINEER.