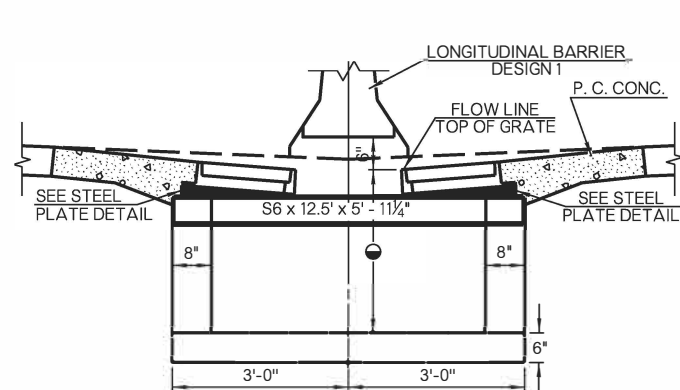


PLAN OF DOUBLE SIDED INLET, OR TYPE II, IN LONGITUDINAL BARRIER (SHOWN ABOVE IS TYPE II, DESIGN 2)



SECTION B2-B2

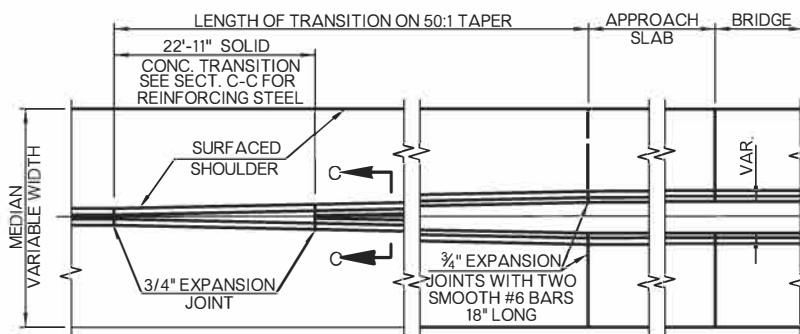
RCP SIZE	MIN. DEPTH
18" RCP	2' - 8"
24" RCP	3' - 2"
30" RCP	3' - 8"

NOTE: SEE ROADWAY STDS. SSIF-5 & CIG-4 FOR AVAILABLE INLET FRAME & GRATES TO BE USED ON SINGLE (TYPE I) OR DOUBLE (TYPE II) SIDED INLETS.

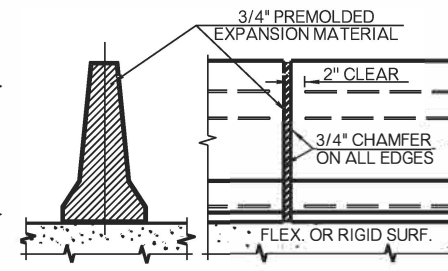
BENDING DIAGRAM BAR C (J-HOOK) @10" C/C

L(MIN.)	GRADE DIFF.	OVERALL
41"	12" THRU 18"	54"
47"	19" THRU 24"	60"
53"	25" THRU 30"	67"
59"	31" THRU 36"	73"

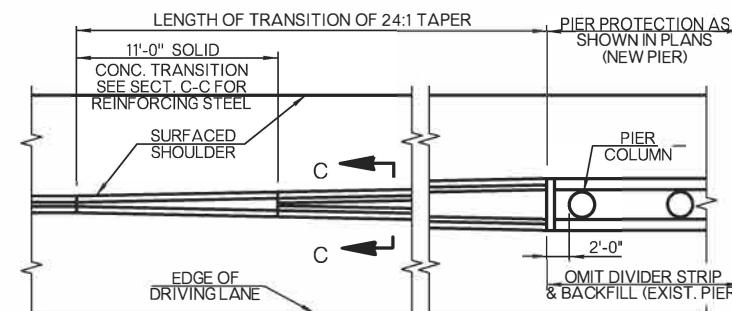
NOTE: FOR GRADE DIFFERENCE OF 0" TO 11" BETWEEN OPPOSITE SIDES OF BARRIER, NO ADDITIONAL REINFORCEMENT IS REQUIRED.



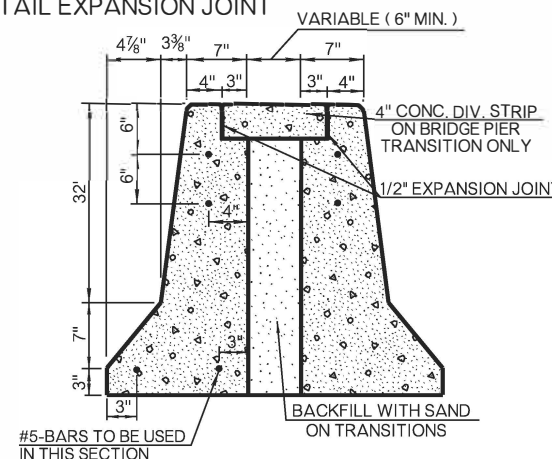
DETAIL OF TRANSITION SECTION AT BRIDGE ENDS



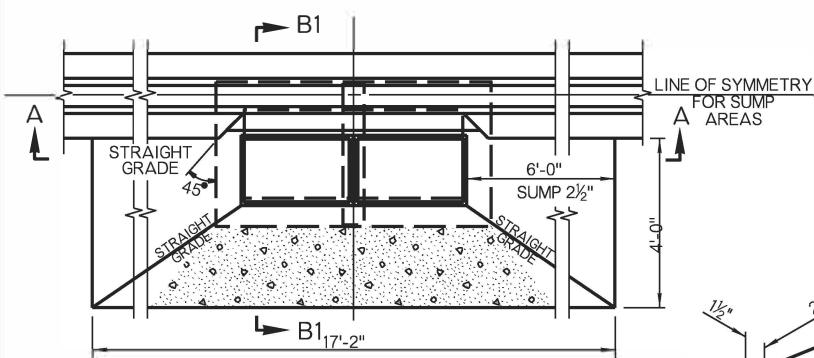
DETAIL EXPANSION JOINT



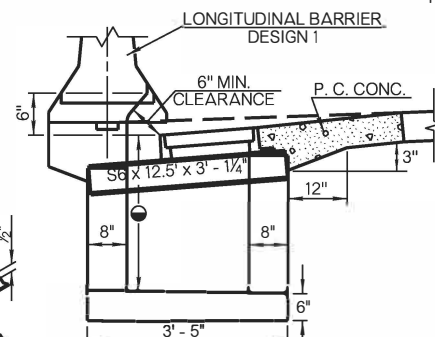
DETAIL OF TRANSITION SECTION AT BRIDGE PIERS



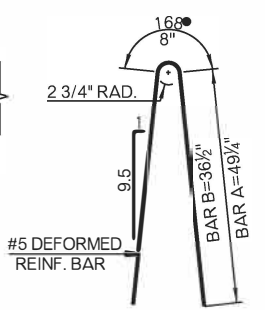
SECTION C-C



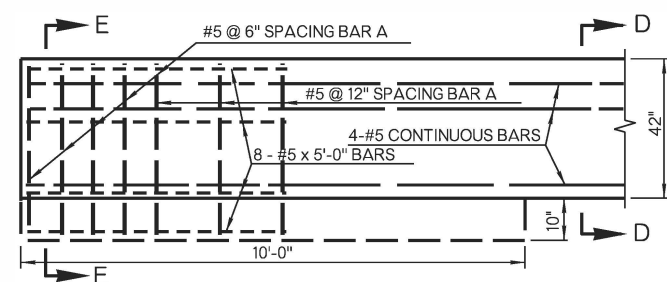
PLAN OF SINGLE SIDED INLET, OR TYPE I, IN LONGITUDINAL BARRIER (SHOWN ABOVE IS TYPE I, DESIGN 2)



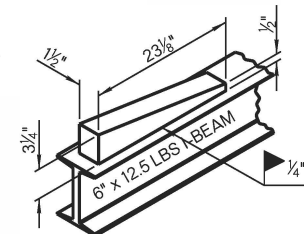
SECTION B1-B1



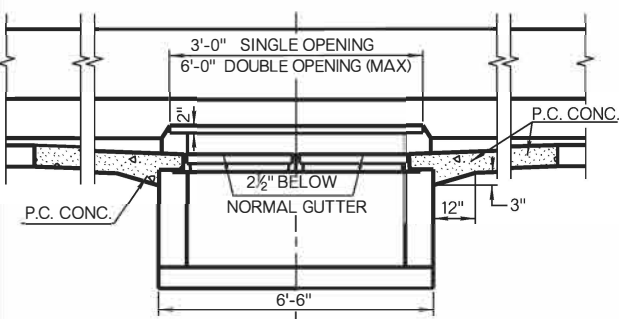
BENDING DIAGRAM BARS A & B



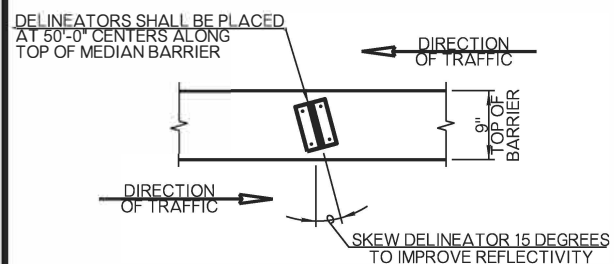
PROFILE LONGITUDINAL BARRIER END SECTION (ONE PLACED AT EACH END OF CONCRETE LONGITUDINAL BARRIER RUNS)



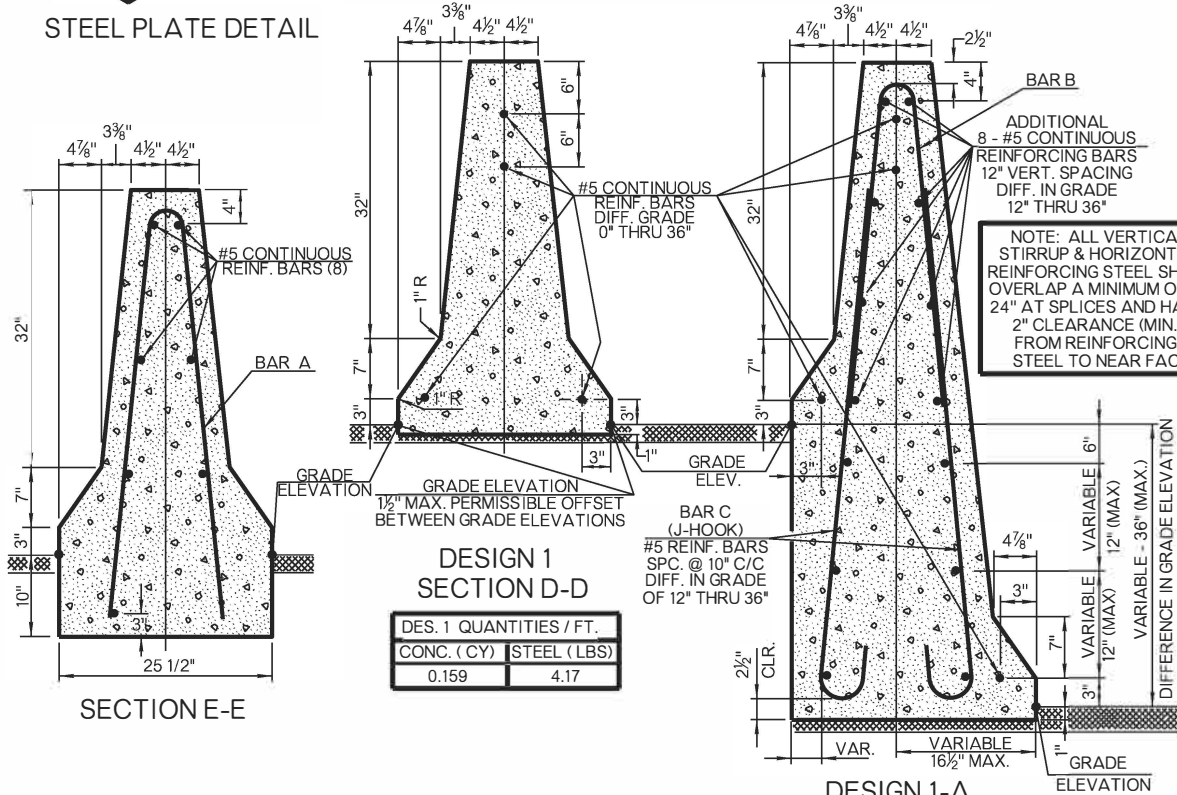
STEEL PLATE DETAIL



SECTION A-A



PLAN OF DELINEATOR PLACEMENT



DES. 1 QUANTITIES / FT.

CONC. (CY)	STEEL (LBS)
0.159	4.17

LONGITUDINAL BARRIER DESIGN 1-A QUANTITIES DIFFERENTIAL GRADE SECTION

DIFFERENCE IN GRADE ELEVATION	TOTAL CONCRETE CU. YDS. PER LF	HORIZ. REINF. #5 BARS EACH	BAR B #5 BAR 10" C/C INCHES	BAR C #5 BAR 10" C/C INCHES	TOTAL REINF. QUANTITY LBS./LF
1"	0.164	4	-	-	4.17
2"	0.170	4	-	-	4.17
3"	0.176	4	-	-	4.17
4"	0.181	4	-	-	4.17
5"	0.187	4	-	-	4.17
6"	0.193	4	-	-	4.17
7"	0.198	4	-	-	4.17
8"	0.204	4	-	-	4.17
9"	0.210	4	-	-	4.17
10"	0.216	4	-	-	4.17
11"	0.222	4	-	-	4.17
12"	0.228	14	1@81	2@54	34.48
13"	0.233	14	1@81	2@54	34.48
14"	0.239	14	1@81	2@54	34.48
15"	0.245	14	1@81	2@54	34.48
16"	0.251	16	1@81	2@54	34.48
17"	0.257	16	1@81	2@54	34.48
18"	0.263	16	1@81	2@54	34.56
19"	0.269	16	1@81	2@60	34.83
20"	0.276	16	1@81	2@60	34.83
21"	0.282	16	1@81	2@60	34.83
22"	0.288	16	1@81	2@60	34.83
23"	0.294	16	1@81	2@60	34.83
24"	0.300	18	1@81	2@60	34.83
25"	0.306	18	1@81	2@67	39.30
26"	0.313	18	1@81	2@67	39.30
27"	0.319	18	1@81	2@67	39.30
28"	0.325	18	1@81	2@67	39.30
29"	0.332	18	1@81	2@67	39.30
30"	0.338	18	1@81	2@67	41.39
31"	0.344	18	1@81	2@74	42.86
32"	0.351	18	1@81	2@74	42.86
33"	0.357	18	1@81	2@74	42.86
34"	0.364	18	1@81	2@74	42.86
35"	0.370	18	1@81	2@74	42.86
36"	0.377	18	1@81	2@74	42.86

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
- PRICE BID SHALL INCLUDE PAYMENT FOR MATERIALS, LABOR, PIPE SLEEVES, EXPANSION JOINTS AND ALL INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION.
- FOR DETAILS OF LONGITUDINAL BARRIER MOUNTED LIGHT POLE BASES AND INSTALLATIONS, SEE TRAFFIC STANDARD BMF1-2.
- LONGITUDINAL BARRIER SHALL BE MEASURED FOR PAYMENT AS CONTINUOUS BARRIER. PAYMENT FOR LIGHT POLE FOOTINGS TO BE INCLUDED IN OTHER ITEMS OF WORK.
- WHEN LONGITUDINAL BARRIER IS PLACED ON FLEXIBLE BASE OR SURFACING, CONTRACTION JOINTS OR CHAMFERS ARE REQUIRED AT MAX. 20 FT. C/C SPACING AND EXPANSION JOINTS ARE REQUIRED AT MAX. 200 FT. C/C SPACING. WHEN THE LONGITUDINAL BARRIER IS PLACED ON P.C. CONCRETE SURFACING THE JOINTS SHALL MATCH THE JOINTS ON THE RIGID SURFACING. SAW-CUT JOINTS WITHIN 10 HOURS OF BARRIER PLACEMENT.
- WHEN LONGITUDINAL BARRIER IS CONSTRUCTED OR EXISTS PRIOR TO CONSTRUCTION OF ADJACENT SHOULDERS OR OVERLAYS, THE SHOULDER LAYERING SHALL NOT ALTER THE ORIGINAL TRAFFIC SIDE GEOMETRY OF THE LONGITUDINAL BARRIER.
- DELINATOR UNITS SHALL BE PLACED ON MEDIAN BARRIER ACCORDING TO TRAFFIC STANDARD DU1-1. ALL COST OF INSTALLATION SHALL BE INCLUDED IN UNIT PRICE BID OF TRAFFIC PAY ITEM BARRIER DELINEATORS.
- AN ALTERNATE DESIGN (INCLUDING PRECAST) CONCRETE LONGITUDINAL BARRIER, MEETING NCHRP 350 REQUIREMENTS, MAY BE USED WHEN APPROVED BY THE ENGINEER.
- WALLS OF INLETS MAY BE MADE OF BRICK MASONRY OR OF CLASS A CONCRETE, TO THE SAME DIMENSIONS. PRICE OF I-BEAM, FRAMES & GRATES SHALL BE INCLUDED IN PRICE BID OF INLET. WELDING SHALL BE PER CURRENT AWS D1.1 STRUCTURAL WELDING CODE.

BASIS OF PAYMENT

ITEMNO.	ITEM	UNIT
627 (A)	CONCRETE LONGITUDINAL BARRIER DESIGN 1	LF
627 (B)	CONCRETE LONGITUDINAL BARRIER END SECTION	EA
509 (B)	CLASS A CONCRETE (LONG.BAR.DES.1-A)	CY
511 (A)	REINFORCING STEEL	LBS
611 (G)	INLET - LONGITUDINAL BARRIER - TYPE I, DES. 1	EA
611 (G)	INLET - LONGITUDINAL BARRIER - TYPE II, DES. 2	EA

■ SPECIFY DESIGN 1 (SINGLE FRAME & GRATE) OR 2 (DOUBLE FRAME & GRATE)

APPROVED BY ROADWAY ENGINEER: *[Signature]* DATE: 6/30/22
ROADWAY DESIGN DIVISION STANDARD

CONCRETE LONGITUDINAL BARRIER (MASH F-SHAPE)

