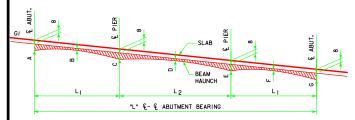


€-€ ABUT. BRG."L"	A € ABUT.	В	C & PIER	D	E & PIER	F	G € ABUT.
138′-10	116	9 16	1 ½	9 16	12	9 16	1 16
151′-4	13 16	5 8	1 16	9 16	116	5 8	13 16
163′-10	15 16	5	1 7 16	2	1 7 16	5 8	15 16
176′-4	Į,	5	1 16	9 16	111	5 8	Į.
188′-10	15 16	5	2	2	2	5 8	15 16
201′-4	5 8	  6	18	1 2	13	11 16	5 8
213′-10	3 4	9 16	13	1 2	13	9 16	3
226′-4	1 16	5	15	1 2	15	5 8	1 16
243′-0	18	5	15	1 2	15	5 8	15

LENGTH OF VERTICAL CURVE REQUIRED = (20,000)(GI-G2) M.O. = (GI-G2 )(LENGTH OF V.C.)

(GI-G2) IS THE ALGEBRAIC DIFFERENCE OF THE APPROACH GRADES EXPRESSED IN DECIMAL FORM, GINEED NOT HAVE THE SAME VALUE AS G2. MAXIMUM VALUE OF GI OR G2 IS 5%. LENGTH OF CURVE AND M.O. ARE IN FEFT.

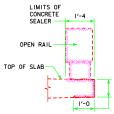
#### SLAB AND HAUNCH THICKNESS AT BEAMS FOR VERTICAL CURVE



િૄ-િહ ABUT. BRG.″L″	A € ABUT.	В	C & PIER	D	E & PIER	F	G € ABUT.
138′-10	1 16	2	1 16	9 16	116	1 2	1 16
151'-4	7	9 16	15   16	9 16	1 15 16	9 16	7 8
163′-10	15 16	! 2	1 4	9 16	13	! 2	15 16
176'-4	15 16	9 16	2	9 16	2	9 16	15 16
188′-10	1 16	9 16	2 3	1 2	2 8	9 16	116
201'-4	3 4	5 8	l 13	9 16	1 12	5 8	3 4
213'-10	15 16	ļ 2	13   16	ļ 2	18	ļ 2	15 16
226'-4	13	! 2	2	ļ 2	2 å	! 2	13
243′-0	2	ļ	21	ļ	21	Ţ	2

GI MAY HAVE A + OR - SIGN. THE MINIMUM NUMERICAL VALUE OF THE GRADE IS 0.3% AND THE MAXIMUM VALUE IS 5%.

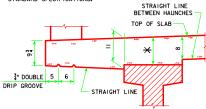
SLAB AND HAUNCH THICKNESS AT BEAMS FOR STRAIGHT GRADE

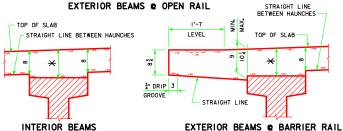


# CONCRETE SEALER LIMITS FOR OPEN RAILS

CONCRETE SEALER SHALL BE APPLIED TO BOTH SIDES OF BRIDGE SLAB ON THE TOP, EDGE OF SLAB AND UNDER THE SLAB. THE CONCRETE SEALER SHALL ALSO BE APPLIED TO THE OPEN RAIL ON THE TOP, TRAFFIC FACE SIDE, BOTTOM OF RAIL, AND ON ALL SIDES OF THE OPEN RAIL POSTS.

THE CONCRETE SEALER LIMITS ARE SHOWN IN THE DETAIL AND SHALL APPLY TO THE FULL LENGTH OF BRIDGE, CONCRETE SEALER SHALL BE APPLIED IN ACCORDANCE WITH ARTICLE 2403.03, P, 3, OF THE STANDARD SPECIFICATIONS.





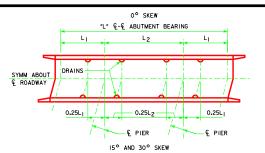
### TYPICAL SLAB AND HAUNCH DETAIL

\* FOR SLAB THICKNESS OVER BEAMS SEE SLAB THICKNESS DETAILS "ON THIS SHEET.

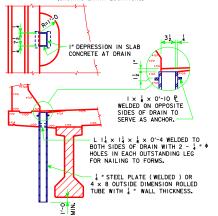


#### SLAB THICKNESS DETAILS

NOTE: THE SLAB THICKNESS (T) AT THE BEAMS, (8" SLAB PLUS HAUNCH) IS BASED ON THE ANTICIPATED BEAM CAMBER REMAINING AFTER PLACING THE SLAB, BUT IS NOT GUARANTEED FOR CONSTRUCTION. OF THE SPANS (POINTS B, D AND F). IF THE BEAM IS OVER CAMBERED DECREASE THE HAUNCH THICKNESS OVER THE BEAM AT THE MIDPOINT OF THE SPANS (POINTS B, D AND F). IF THE BEAM IS OVER CAMBERED DECREASE THE HAUNCH THICKNESS OVER THE BEAM AT THE MIDPOINT OF THE SPANS (POINTS B, D AND F) TO A MAXIMUM OF  $\frac{1}{2}$ " EMBEDMENT IN THE SLAB. IF MORE THAN  $\frac{1}{2}$ " EMBEDMENT IS REQUIRED OR IF THE HAUNCH EXCEEDS 21" THE GRADE LINE IS TO BE REVISED.



#### SITUATION SKETCH (SHOWING DRAIN LOCATIONS:



## DRAIN DETAILS

USE FOR BARRIER RAIL ONLY. NOT REQUIRED FOR OPEN RAIL.

DRAINS ARE TO BE GALVANIZED AFTER FABRICATION, SECONDARY OF DRAINS IS INCLUDED IN THE QUANTITY FOR "STRUCTURAL STELL" ON THE SUMMARY QUANTITIES SHEET IN THE PLAN. WEIGHT IS BASED ON ROLLED TUBE.

DATA F	OR 0	NE D	RAIN
BEAM SIZE	Α	В	С
WT. LBS.	85	96	106
LENGTH ET.	4'-43	4'-113	5'-53





STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES SEPTEMBER, 2014

SUPERSTRUCTURE DETAILS

H44-04-14