

02-SEP-2015 16:08 K:\TIPProjects-B\B4959\Structures\Plans\FinalPlan\b4959\_sd\_cs\_oregon.dgn

+

+

## NOTES

METAL RAIL SHALL BE GALVANIZED STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL NOTES AND THE FOLLOWING SPECIFICATIONS. ALUMINUM RAIL WILL NOT BE AN OPTION.

GALVANIZED STEEL RAILS

MATERIAL AND GALVANIZING ARE TO CONFORM TO THE FOLLOWING SPECIFICATIONS:

POST, POST BASES, ANCHOR PLATES, AND RAIL SPLICE TUBES: AASHTO M270 GRADE 36 STRUCTURAL STEEL-GALVANIZED TO AASHTO M111.

THE CUT ENDS OF GALVANIZED STEEL RAILING, AFTER GRINDING SMOOTH SHALL BE GIVEN TWO COATS OF ZINC RICH PAINT MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATION MIL-P-26915 USAF TYPE 1, OR OF FEDERAL

HIGH STRENGTH ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 105. HEAVY HEX NUTS SHALL CONFORM TO ASTM A563 DH, AND WASHERS TO ASTM F436, TYPE 1. NUTS AND WASHERS SHALL BE GALVANIZED TO AASHTO M111.

GENERAL NOTES

RAILING SHALL BE CONTINUOUS FROM END POST TO END POST OF BRIDGE. EACH JOINT IN RAIL LENGTH SHALL BE SPLICED AS DETAILED. PANEL LENGTHS OF RAIL SHALL BE ATTACHED TO A MINIMUM OF THREE POSTS. FOR END OF RAIL TO CLEAR FACE OF CONCRETE END POST DIMENSION, SEE STANDARD NO. BMR11.

CERTIFIED MILL REPORTS ARE REQUIRED FOR RAILS AND POSTS. SHOP INSPECTION IS NOT REQUIRED.

CURVED RAIL USAGE: WHERE RAILS ARE TO BE USED ON BRIDGES ON HORIZONTAL AND/OR VERTICAL CURVATURE THE CONTRACTOR MAY, AT HIS OPTION, HAVE THE REQUIRED CURVATURE IN THE RAIL FORMED IN THE SHOP OR IN THE FIELD. IN EITHER EVENT, THE RAIL SHALL CONFORM WITHOUT BUCKLING OR KINKING TO THE REQUIRED CURVATURE IN A UNIFORM MANNER ACCEPTABLE TO THE ENGINEER.

TO INSURE FUTURE IDENTIFICATION OF THE FABRICATOR, A PERMANENT IDENTIFYING MARK SHALL BE PLACED ON EACH POST. THE METHOD OF MARKING AND LOCATION SHALL BE SUCH THAT IT DOES NOT DETRACT FROM THE APPEARANCE OF THE POST, BUT REMAINS VISIBLE AFTER RAIL PLACEMENT.

THE RAIL SECTIONS SHALL BE ATTACHED TO THE POSTS BY TWO THREADED 3/4" Ø WELDED STUDS, PLATE WASHERS,

CURB HEIGHT TABLE		
	SPANS A & C	SPAN B
@€BRG.	10 <sup> </sup> /2″	1'-0"
@ MID.SPAN	103⁄8″	10 <sup>1</sup> /2″

$\begin{array}{c c} 1'-1'' \\ \hline 5'' & 5'' \\ \hline 1 & 1'/2'' \\ \hline 1 & 1'/2''' \\ \hline 1 & 1'/2'' \\ \hline 1 & 1'/2''' \\ \hline 1 & 1'/2'''' \\ \hline 1 & 1'/2'''''''''''''''''''''''''''''''''''$		
	PROJECT NO. <u>B-4959</u> <u>GUILFORD</u> COUNTY	
ELEVATION	STATION: 14+70.50 -L-	
	SHEET 1 OF 3	
<u> </u>	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH	
	STANDARD	
RESSIONER SEAL 25461	42″OREGON RAIL	
MANUEL 1. UNIT	REVISIONS SHEET NO. NO. BY: DATE: NO. BY: DATE: S-12	
DocuSigned by: 9/3/2015 658110228E1B425	1 3 TOTAL SHEETS   2 4 25	