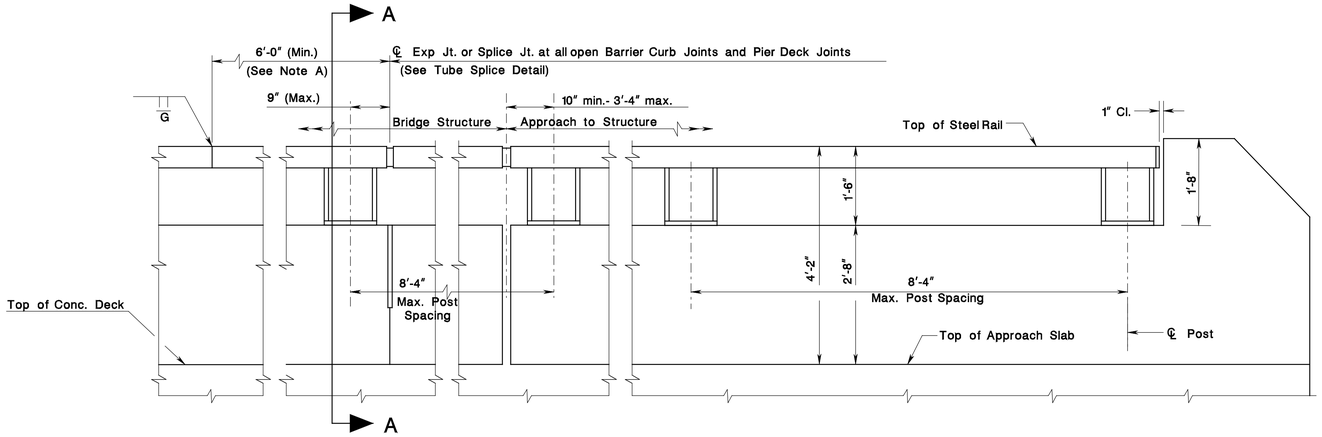
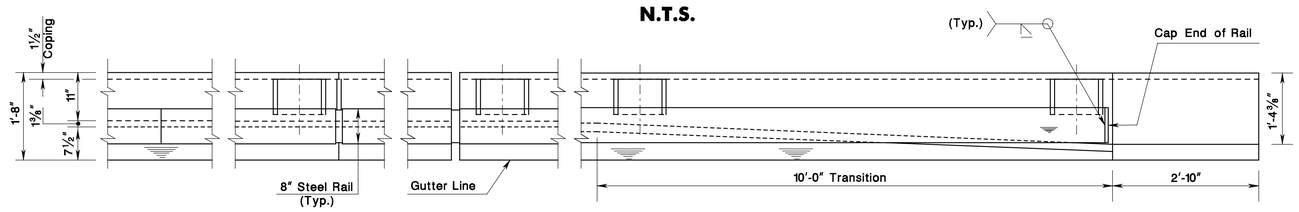


PARAPET ELEVATION VIEW

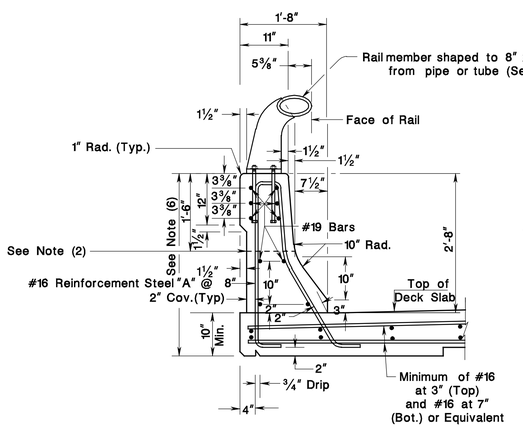
N.T.S.



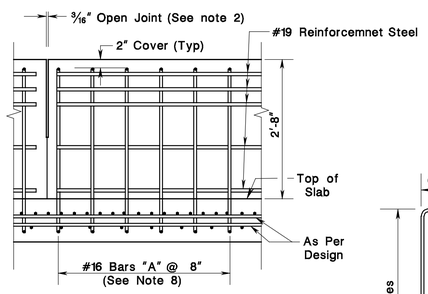
PARAPET PLAN VIEW

NOTE:

A. One shop splice per panel is permitted with minimum 85 percent penetration. Weld flaws resulting in no less than 60 percent penetration are permissible in the upper and lower 90 degree quadrants of the members. The weld may be square groove, double vee groove, or single groove and shall be ground smooth.

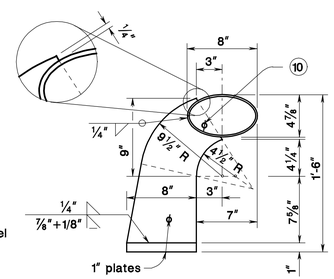


SECTION A–A

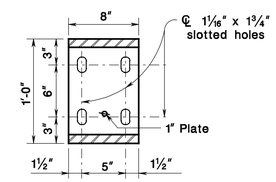


ELEVATION

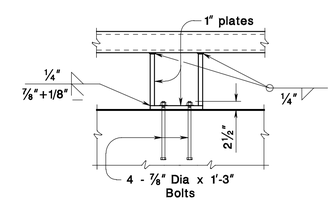
(Showing Reinforcement)



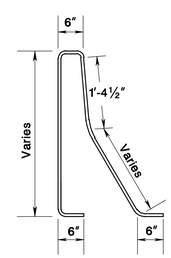
END VIEW OF POST



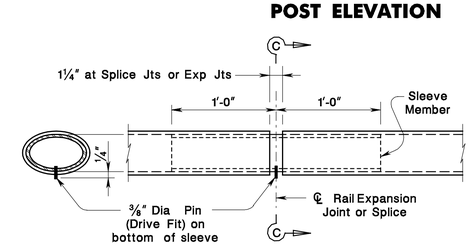
BASE PLATE DETAIL



POST ELEVATION



REINFORCEMENT STEEL "A" BENDING DETAIL



SECTION C–C AT SPLICE OR EXPANSION JOINTS

TUBE SPLICE DETAIL

GENERAL NOTES:

1. 3/16" open deflection joint shall be provided in parapets at intervals not exceeding 20'-0" and contraction joints shall be provided at the midpoint between the open joints.
2. The 3/16" open joint shall stop at the line indicated and a contraction joint shall be provided below that line.
3. Full depth joints shall be provided at location of transverse deck joints. The full depth joint opening width shall equal the transverse deck joint opening width.
4. All reinforcement steel in parapet shall be corrosion protected.
5. Permanent metal stay-in-place forms not permitted in the deck overhang area.
6. Fascia rustication and/or configuration as per specifications.
7. All steel components including bolts, nuts, and washers shall be galvanized unless otherwise shown on the plans.
8. Anchor bolts shall be ⅞" dia. ASTM F1554 bolts with one hex nut and one 2¼" O.D. washer (3/16" min. thickness) plus one 1¾" O.D. hardened steel washer (1/8" Min. thickness) at each bolt. Nuts shall conform to A563 requirements.
9. The pipe may be slotted to fit plates in lieu of cutting plates to fit pipe, except plates adjacent to tube splice.
10. The plates shall be AASHTO M 270, Grade 36 or 50.

TUBE & SLEEVE MEMBERS		
8" x 4⅞" Ellipse	Splice Member	
Material	Material	Thickness
6" Dia Std Pipe ASTM-A53 E or S Gr B)	ASTM-A53-B	0.353"
	A36 or A500 Gr B	0.339"
	API-5LX52	0.224"
6⅝" O.D. x 0.188" Tube API-5LX52	ASTM-A53-B	0.339"
	A36 or A500 Gr B	0.325"
	API-5LX52	0.216"

NOTES:

1. Other sections of equal or greater strength are acceptable for sleeves.
2. The major and minor diameters of the rail member may vary +/- 0.1875 inches from plan dimension. However, the difference between the outside diameters of the sleeve and the inside diameters of the rail shall not exceed 0.125 inches along the major or minor axis. Gaps exceeding this amount up to 0.25 inches are permissible along the 45° axes of the sleeves.

4'–2" HIGH HEAVY TRUCK PARAPET

N.T.S.

BCD-507-7.1

BCD-507-7

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

pen table = Y:\NJDOTWS\Projects\NJDOTEng\Uplot\TBLs\Non-Roadway\bridge.tbl
scale = 0.083333:1.000000
date = 17-DEC-2007 10:00
ID = TPXBHAV
BDC070-01-ORIGINAL SHEET
file =