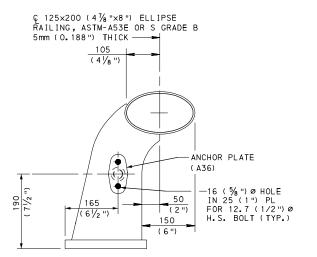


ALTERNATE SIDEWALK RAIL (WITHOUT INLET PLACEMENT SHOWN; WITH INLET PLACEMENT SIMILAR)

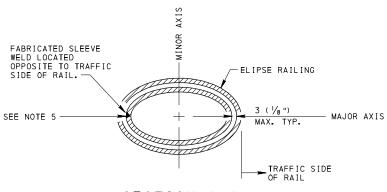
(DETAILS FOR ALTERNATE SIDEWALK RAIL SHOWN; DETAILS FOR TYPICAL RAIL SIMILAR EXCEPT SIDEWALK RAIL ROD NOT INCLUDED. FOR SECTION VIEWS, SEE SHEET 1)



MODIFIED RAILING POST

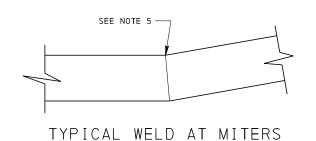
ON TRANSITION BARRIER

(MODIFIED RAILING POST SHOWN IS USED ON THE TRANSITION SECTION OF THE CONCRETE BARRIER AT THE ALTERNATE SIDEWALK RAIL AND TYPICAL RAIL ONLY. FOR DIMENSIONS, MATERIAL AND CONNECTION DETAILS NOT SHOWN, SEE TYPICAL "ELEVATION-POST", SHEET 1)



SECTION A-A

THE DIFFERENCE BETWEEN THE OUTSIDE DIAMETERS OF THE SLEEVE SPLICE AND THE INSIDE DIAMETERS OF THE MAIN RAIL NOT TO EXCEED 0.125 INCHES ALONG THE MAJOR AND MINOR AXIS. GAPS EXCEEDING THIS AMOUNT UP TO 5 (1/4 ") ARE PERMISSABLE ALONG THE 45° AXES OF THE SLEEVE SPLICE RAIL.



PA HT BRIDGE BARRIER END DETAILS

TABLE 1 METRIC UNITS APPROVED RAILING MATERIAL 125 × 200 SLEEVE MEMBER ELLIPSE RAILING (AT RAILING SPLICE) MATERIAL MATERIAL THICKNESS ASTM-A53-B 9.0 152 DIA. STD. PIPE ASTM-A53 E OR S A36 OR A500 GR. B GRADE B 8.6 API-5LX52 5.7 ASTM-A53-B 8.6 168 O.D. × 4.8 A36 OR A500 GR. B 8.3 TUBE API-5LX52 API-5LX52 5.4

TABLE 1 U.S. CUSTOMARY UNITS		
APPROVED RAILING MATERIAL		
4 % " × 8 " ELLIPSE RAILING	SLEEVE MEMBER (AT RAILING SPLICE)	
MATERIAL	MATERIAL	THICKNESS
6" DIA. STD. PIPE ASTM-A53 E OR S GRADE B	ASTM-A53-B	0.353"
	A36 OR A500 GR. B	0.339"
	API-5LX52	0.224"
6 % " O.D. × .188 " TUBE API-5LX52	ASTM-A53-B	0.339"
	A36 OR A500 GR. B	0.325"
	API-5LX52	0.216"

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. U.S. CUSTOMARY UNITS IN () PARENTHESES.
- 2. THE CONCRETE PORTION OF PA HT BRIDGE BARRIER IS THE SAME AS THE ALTERNATE BARRIER. FOR REINFORCEMENT DETAILS IN THE TRANSITION, SEE THE STRUCTURE PLANS.
- 3. FOR GUIDERAIL TRANSITION DETAILS, SEE BC-739M.
- 4. FOR ADDITIONAL NOTES, SEE SHEET 1.
- 5. COMPLETE JOINT PENETRATION GROOVE WELD. GRIND FLUSH ON OUTSIDE FACE. SHOW SPECIFIC WELD SYMBOL ON SHOP DRAWINGS.

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

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STANDARD

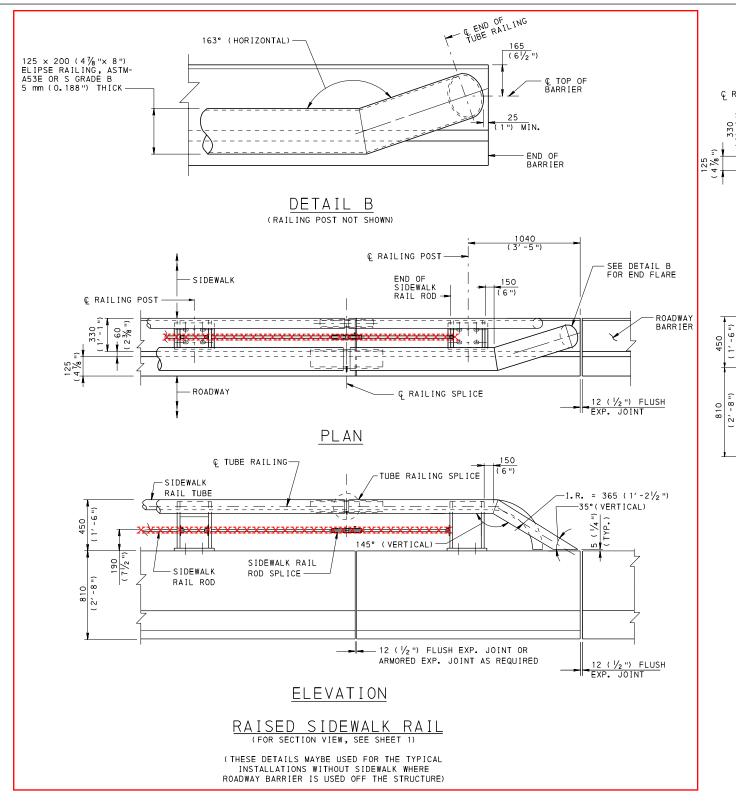
PA HT BRIDGE BARRIER MISCELLANEOUS DETAILS

BC-720M ALUMINUM OR STEEL BRIDGE HAND RAILING BC-739M BRIDGE BARRIER TO GUIDE RAIL TRANSITION REFERENCE DRAWINGS

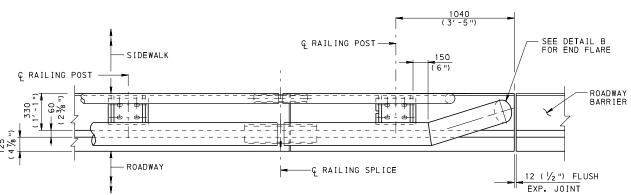
RECOMMENDED JUL.24, 2006 RECOMMENDED JUL.24, 2006 RECOMMENDED JUL.24, 2006 SHEET 2 OF 5 TRong P. Meior Lectoria

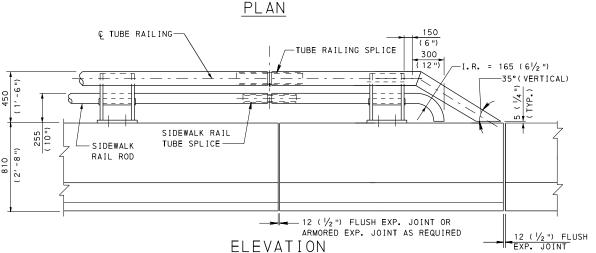
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CHIEF ENG., HWY. ADMIN. BC-707M



PA HT BRIDGE BARRIER END DETAILS





SIDEWALK RAIL (FOR SECTION VIEW, SEE SHEET 1)

(THESE DETAILS MAYBE USED FOR THE TYPICAL INSTALLATIONS WITHOUT SIDEWALK WHERE ROADWAY BARRIER IS USED OFF THE STRUCTURE)

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. U.S. CUSTOMARY UNITS IN () PARENTHESES.
- 2. THE CONCRETE PORTION OF PA HT BRIDGE BARRIER IS THE SAME AS THE ALTERNATE BARRIER. FOR REINFORCEMENT DETAILS IN THE TRANSITION, SEE THE STRUCTURE PLANS.
- 3. FOR TYPICAL WELD DETAIL AT MITERS, SEE SHEET 2.
- 4. FOR ADDITIONAL NOTES, SEE SHEET 1.

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BURBAU OF DESIGN

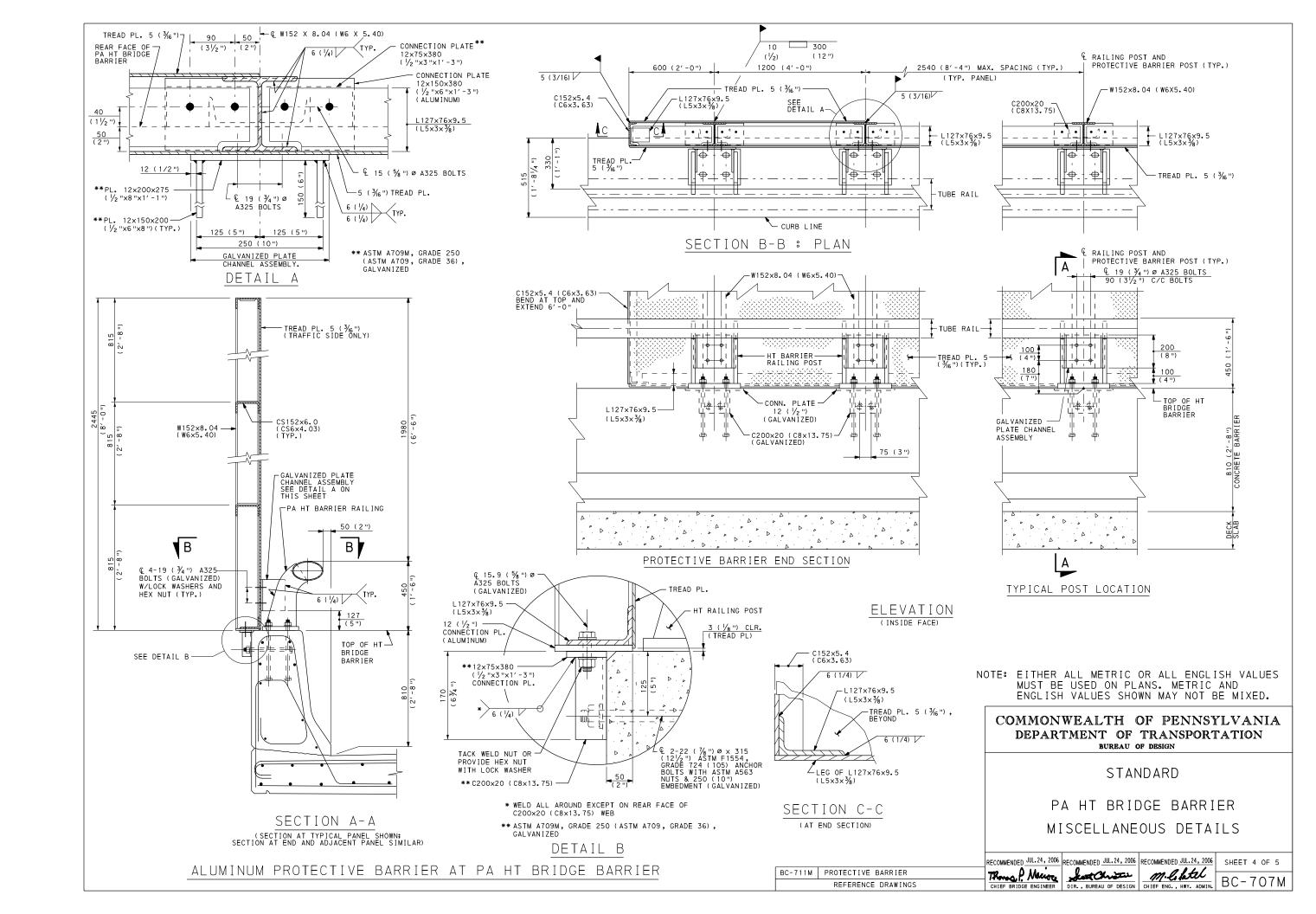
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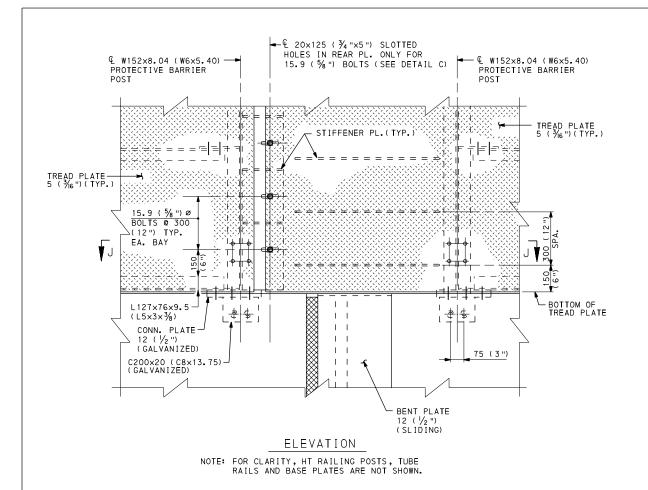
PA HT BRIDGE BARRIER
MISCELLANEOUS DETAILS

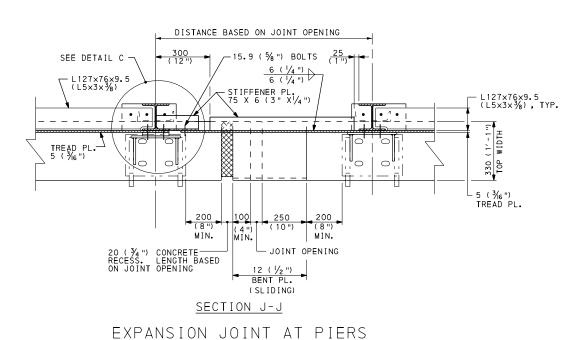
BC-720M ALUMINUM OR STEEL BRIDGE HAND RAILING RECOMMENDED JUL.24, 2006
BC-739M BRIDGE BARRIER TO GUIDE RAIL TRANSITION
REFERENCE DRAWINGS
CHIEF BRIDGE ENGINEER
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RECOMMENDED JUL. 24, 2006 RECOMMENDED JUL. 24, 2006 RECOMMENDED JUL. 24, 2006 SHEET 3 OF 5

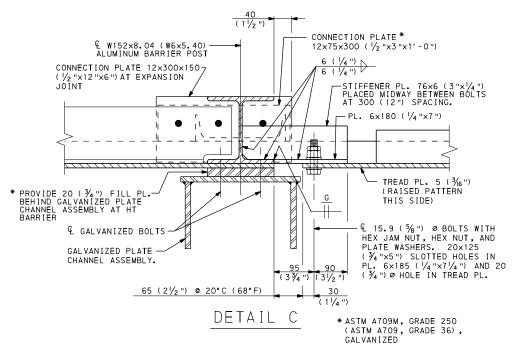
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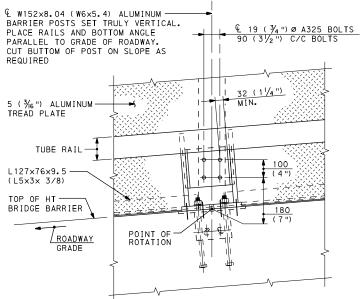






ALUMINUM PROTECTIVE BARRIER AT PA HT BRIDGE BARRIER





POST MOUNTING ON GRADE

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. U.S. CUSTOMARY UNITS IN () PARENTHESES.
- 2. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PUBLICATION 408.
- 3. PROVIDE ELASTOMERIC PADS OR WASHERS 3 (1/8") MIN.
 THICKNESS CONFORMING TO PUB. 408, SECTION 1107.02(P),
 TYPE I, BETWEEN CONTACT SURFACES WHEREVER ALUMINUM
 COMPONENTS COME IN CONTACT WITH GALVANIZED STEEL.
 ALSO PROVIDE FABRIC BUSHING MATERIAL CONFORMING TO
 SECTION 1107.02 (P), TYPE II, WHEREVER GALVANIZED
 STEEL BOLTS COME IN CONTACT WITH ALUMINUM.
- 4. PROVIDE ALL COMPONENTS AND DETAILS OF ALUMINUM PROTECTIVE BARRIER AS SHOWN ON BC-711M, EXCEPT AS MODIFIED HERE.
- 5. EXPANSION DETAILS, SLOTTED OPENINGS, AND CLEARANCES SHOWN ARE FOR MOVEMENTS UP TO 50 (2"), EXPANSION OR 50 (2") CONTRACTION. ADJUST ALL EXPANSION JOINT DETAILS SHOWN AND PROVIDE SPECIAL DETAILS AS REQUIRED FOR LARGER MOVEMENTS.

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

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STANDARD

PA HT BRIDGE BARRIER
MISCELLANEOUS DETAILS

RECOMMENDED JUL.24, 2006

BC-711M PROTECTIVE BARRIER

REFERENCE DRAWINGS

RECOMMENDED JUL.24, 2006

RECOMMENDED JUL.24, 20