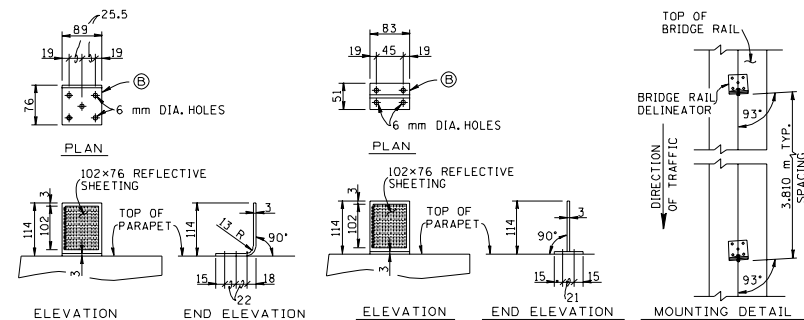
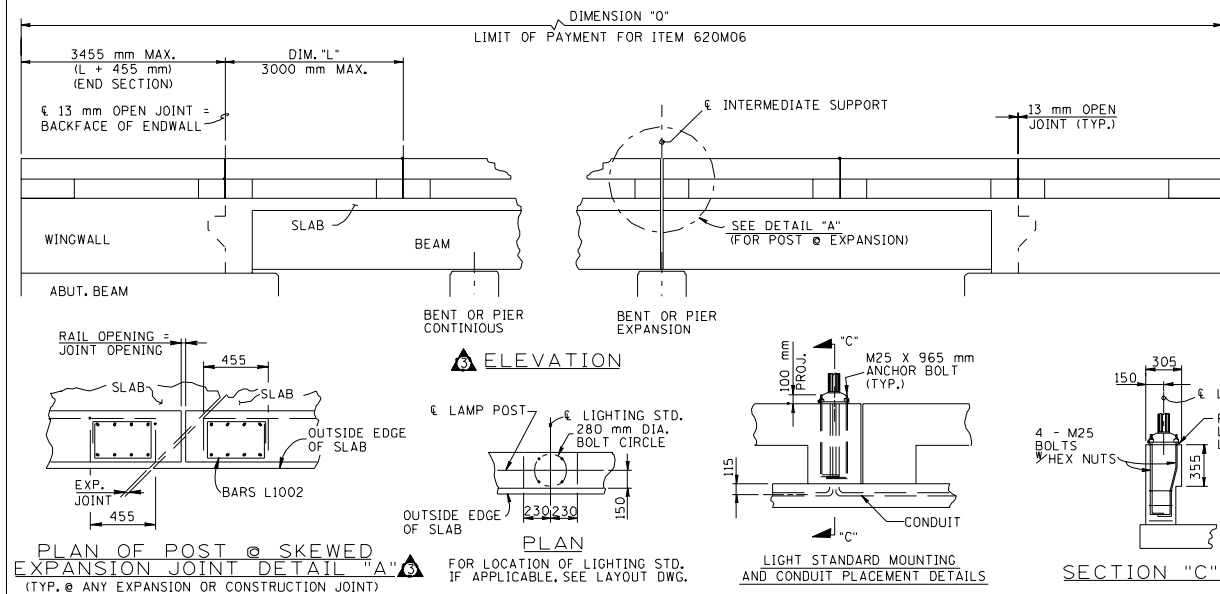


| PROJECT NO. |         | YEAR | SHEET NO.                                                                                                                                |
|-------------|---------|------|------------------------------------------------------------------------------------------------------------------------------------------|
|             |         | 1996 |                                                                                                                                          |
| REVISIONS   |         |      |                                                                                                                                          |
| NO.         | DATE    | BY   | BRIEF DESCRIPTION                                                                                                                        |
| 1           | 6-10-96 | BRB  | NEW METRIC STANDARD                                                                                                                      |
| 2           | 5-21-99 | CMH  | REVISED NOTE ⑧ & DELINEATORS                                                                                                             |
| 3           | 7-31-00 | CMH  | REVISED ELEVATION SHOWING JOINT LOCATION & BACKFACE OF ENDWALL EXPANSION JOINT DETAIL "A"; BAR DETAILS' INTERIOR & WING POST REINFORCING |
|             |         |      |                                                                                                                                          |
|             |         |      |                                                                                                                                          |
|             |         |      |                                                                                                                                          |
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|             |         |      |                                                                                                                                          |



### BRIDGE RAIL DELINEATOR

- ⑧ BRIDGE RAIL DELINEATORS SHALL BE HIGH IMPACT, UV-STABILIZED, ENGINEERED THERMOPLASTIC OR POLYCARBONATE SUBSTRATE. SEE TDOT APPROVED QUALIFIED PRODUCT LISTS FOR ACCEPTABLE PRODUCTS.
- ⑨ BRIDGE RAIL DELINEATOR REFLECTIVE SHEETING SHALL MEET ASTM D4956, TYPE V SPECIFICATIONS. THE REFLECTIVE SHEETING SHALL BE A MINIMUM OF 102x76 AND HAVE MINIMUM COVERAGE AREA OF 7740 SQUARE MILLIMETERS. THE COLOR OF THE DELINEATORS SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. BRIDGE RAIL DELINEATORS WILL NOT BE REQUIRED IN AREAS WHERE ROADWAY IS LIGHTED.
- ⑩ THE COST OF FURNISHING AND INSTALLING BRIDGE RAIL DELINEATORS, INCLUDING ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION, SHALL BE INCLUDED IN BID PRICE FOR CONCRETE RAIL.
- ⑪ BRIDGE RAIL DELINEATORS SHALL BE MOUNTED TO THE CONCRETE RAIL WITH A ONE COMPONENT ADHESIVE AS RECOMMENDED BY THE MANUFACTURER. THEY SHALL BE INSTALLED NO EARLIER THAN THREE WEEKS AFTER THE TEXTURE COATING HAS BEEN APPLIED.

### GENERAL NOTES:

- SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPT. OF TRANSPORTATION CURRENT EDITION.
- DESIGN SPECIFICATIONS: AASHTO CURRENT EDITION WITH ADDENDA.
- CONCRETE: TO BE CLASS "A".
- REINFORCING STEEL: TO BE ASTM A615M 400 MPa. STANDARD CRSI HOOK DETAILS APPLY UNLESS OTHERWISE NOTED ON THE BILL OF STEEL. SPACING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS. ALL STEEL TO BE EPOXY COATED WHEN EPOXY BARS ARE USED IN BRIDGE DECK. COST TO BE INCLUDED IN UNIT PRICE BID FOR RAIL.
- FOR DIMENSIONS "O" AND "L" SEE LAYOUT SHEET OF STRUCTURES. MAX. "L" = 3000 mm "O" = OUT TO OUT WINGPOST.
- ALL POSTS SHALL BE VERTICAL. RAIL SHALL CONFORM TO LINE AND GRADE OF ROADWAY.
- PAYMENT FOR CONCRETE RAIL SHALL BE BASED ON METER FROM END OF WINGPOST TO END OF WINGPOST.
- RAILING SHALL NOT BE CONSTRUCTED ON ANY STRUCTURE UNTIL THE FALSEWORK HAS BEEN STRUCK.
- THIS RAIL HAS BEEN SUCCESSFULLY CRASH TESTED TO THE SATISFACTION OF THE FEDERAL HIGHWAY ADMINISTRATION AND IS RECOMMENDED FOR USE IN FHWA MEMORANDUM "BRIDGE RAILS" AUG. 28, 1986.
- BASIS OF PAYMENT SHALL INCLUDE ALL MISCELLANEOUS ITEMS TO COMPENSATE FOR ALL LABOR, MATERIALS, TOOLS AND INCIDENTALS FOR THE ENTIRE CONCRETE RAIL SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 620M06.

### ESTIMATED QUANTITIES

| ITEMS                | CLASS "A" CONCRETE m <sup>3</sup> | REINF. STEEL kg |
|----------------------|-----------------------------------|-----------------|
| ONE INTER. POST, 90° | 0.09                              | 27.9            |
| ONE WING POST, 90°   | 0.19                              | 38.2            |
| ONE METER RAIL       | 0.11                              | 15.6            |

\* DENOTES: INTERIOR POST ARE 455 mm.

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

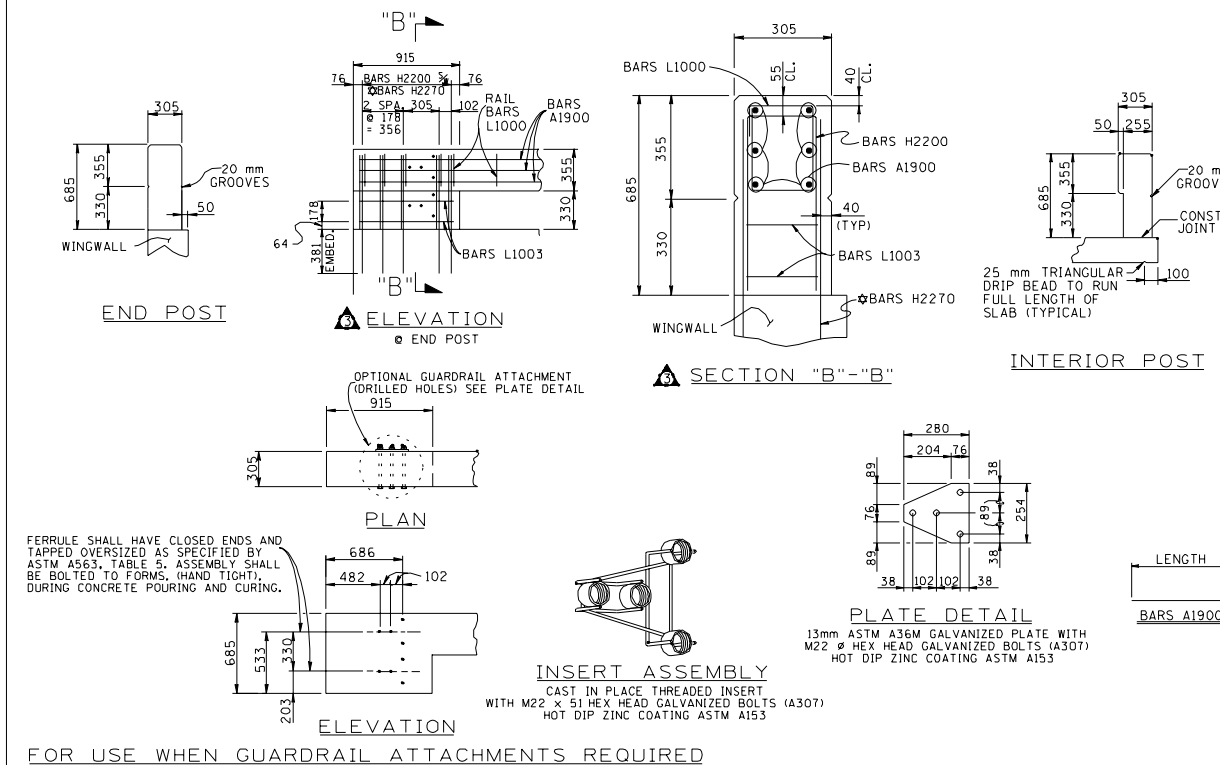
MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
STANDARD  
CONCRETE RAIL  
1996

CORRECT. *Edward P. Wasserman*  
ENGINEER OF STRUCTURES



STD-7-1



FOR USE WHEN GUARDRAIL ATTACHMENTS REQUIRED

DESIGNED BY SEE GEN. NOTE NO. 9 DATE  
DRAWN BY K. PHILLIPS & M. SURDAM DATE 5-11-87  
SUPERVISED BY JWF AND RMD DATE 5-11-87  
CHECKED BY DATE