

9/3/2004 8:37:23 AM \\G00T-05N1\G0PLOT\OCF\GO_TIFF\OUTPUT\OCF_GOWENS.M\GARY\ENGLISH STANDARDS_UPDATED_AND_UPDATED_INDEX\4010.PRF_G0-R06

AS-BUILT PLANS - 08/30/13

PLAN
TRAFFIC FLOW
PAY LENGTH FOR GUARDRAIL (TYPE 'W')
ELEVATION
(TYPICAL VIEW ALONG ROADWAY)

SECTION THROUGH RAIL ELEMENT

W-BEAM SPLICE AT POST
NOTE: WOOD OFFSET BLOCKS ALLOWABLE ONLY WHERE SPECIFIED.
NOTE: OFFSET BLOCKS FOR W-BEAM GUARDRAIL WILL BE PLASTIC EXCEPT WHERE SPECIFIED OTHERWISE.

DOUBLE FACED GUARDRAIL (Type 'W')
NOTE: DETAILS FOR DOUBLE FACED GUARDRAIL NOT SHOWN ARE SIMILAR TO THAT SHOWN FOR SINGLE FACED RAIL.

BUFFER END SECTION
(DETAILS NOT SHOWN ARE SIMILAR TO ROUNDED TERMINAL END PIECE.)

TYPICAL END SHOE CONNECTION
NOTE: THE W-BEAM RAIL ELEMENT/END SHOE SPLICE SHALL BE LAPPED IN THE DIRECTION OF THE NEAREST TRAFFIC.

SPECIAL END SHOE DETAIL
(TO BE USED WITH SPECIAL END SHOE CONNECTION UNDER NUTS & WASHERS ON BACK OF BRIDGE END POST OR BACK OF CONCRETE SIDE BARRIER) (FOUR 3" x 1/2" x 3" GALV. PLATES WITH 1" DIA. HOLE CENTERED, MAY BE USED AS AN ALTERNATE)

TERMINAL END PIECE (FLARED)

TERMINAL END PIECE (ROUNDED)

GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
- NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, END SECTIONS AND OTHER GUARDRAIL HARDWARE ARE IN ACCORDANCE WITH THE CURRENT ARTBA TECHNICAL BULLETIN NO. 268 - UNLESS SPECIFIED OTHERWISE, DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA STANDARD 401A.
- FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE APPLICABLE STANDARDS AND/OR CONSTRUCTION DETAILS.
- FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
- ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION, GALVANIZING REPAIR COMPOUND (SEC. 645) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
- WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150', PRECURVED RAIL WILL BE REQUIRED.
- PAYMENT FOR GUARDRAIL (Type 'W') TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED, & REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS, OR CATCH BASINS WHERE NECESSARY.
- ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.

TYPE A WASHER (GALV.)
IF SLOTS IN SPECIAL END SHOE ARE 3" LONG TP, A WASHERS ARE REQ'D UNDER SPLICE BOLT HEADS & UNDER NUTS WITH 2" LONG SPLICE BOLTS. IF END SHOE SLOTS ARE 1 1/8" LONG, USE NORMAL SPLICE CONNECTIONS

STEEL WASHER (GALV.)
(REQ'D UNDER 5/8" HEX BOLT HEADS, UNDER HEX NUTS AND AS SPECIFIED)

5/8" DIA. HEX BOLT & HEX NUT
(TO BE USED ONLY FOR ATTACHING STEEL OFFSET BLOCKS TO STEEL POST)

POST BOLT SLOT SPLICE BOLT SLOT

RECESS NUT
(FOR USE AT TERMINAL POST OR WHERE SPECIFIED)

RECTANGULAR WASHER (GALV.)
(FOR USE AT TERMINAL POST OR WHERE SPECIFIED)

L	THREAD LENGTH
1/4"	FULL LENGTH
2"	1/2" MIN.
9 1/2"	1 3/4" MIN.
18"	2 1/2" MIN.
25"	2" MIN.

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DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION	STANDARD "W" BEAM GUARDRAIL	
NO SCALE	REV. & REDR. MAY, 1999	NUMBER 4010
DES. RETRACED	(SUBMITTED) <i>James K. Kaul</i> STATE ROAD & AIRPORT DESIGN ENGR.	
CHK.	(APPROVED) <i>David L. Smith</i> CHIEF ENGINEER	

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS