



**ELEVATION - NORTH BRIDGE RAIL**  
**FACING NORTH FROM CENTER OF ROADWAY**  
**BRIDGE No. 50S**

PAY LENGTH = ~~243'-9"~~ <sup>242'-8"</sup> (THIS SHEET)  
 TOTAL PAY LIMIT ITEM 525.33 (STEEL BRIDGE RAIL, NETC 2-RAIL) = 3730 LF

BILL OF MATERIAL				
Mk.	Qty.	Description	Material	Total wgt.
33		RAIL POST W6x25 WITH BASE PLATE		3069 lbs.
*	33	ANCHORAGE ASSEMBLY WITH PLATE (4) ANCHOR STUDS & HARDWARE *		891 lbs.
11		UPPER RAIL SPLICE TUBE 7x3x3/8 (1'-8" OAL)		434.5 lbs.
11		LOWER RAIL SPLICE TUBE 3x3x5/16 (1'-8" OAL)		203.5 lbs.
33		1/8" THICK BEARING PAD		16.5 lbs.
132		3/4" DIA x 6" LG. ROUND-SLOTTED HEAD BOLT WITH WASHER & LOCKNUT		113.52 lbs.
88		5/8" DIA x 1 3/4" HEX HEAD BOLT WITH HARDENED WASHER		24.64 lbs.
8		3/4" SCH 40 SPACER PIPE x 1/2" LONG		1.68 lbs.
-46M	2	RAIL TUBE (UPPER) 8x4x5/16 23'-9" OAL		1163.75 lbs.
-47M	1	RAIL TUBE (UPPER) 8x4x5/16 23'-9" (SLOTTED ONE END)		581.88 lbs.
-44M	3	RAIL TUBE (UPPER) 8x4x5/16 23'-6" OAL		964 lbs.
-05M	1	RAIL TUBE (UPPER) 8x4x5/16 11'-6 5/8" (SLOTTED BOTH ENDS)		1151.5 lbs.
-31M	3	RAIL TUBE (UPPER) 8x4x5/16 19'-10" OAL		1290 lbs.
-85M	1	RAIL TUBE (UPPER) 8x4x5/16 16'-2 3/4" OAL		479.79 lbs.
-11M	1	RAIL TUBE (UPPER) 8x4x5/16 12'-8" OAL		310.33 lbs.
-46M	2	RAIL TUBE (LOWER) 4x4x1/4 23'-9" OAL		608 lbs.
-47M	1	RAIL TUBE (LOWER) 4x4x1/4 23'-9" (SLOTTED ONE END)		304 lbs.
-44M	3	RAIL TUBE (LOWER) 4x4x1/4 23'-6" OAL		503.1 lbs.
-05M	1	RAIL TUBE (LOWER) 4x4x1/4 11'-6 5/8" (SLOTTED ONE END)		601.6 lbs.
-31M	3	RAIL TUBE (LOWER) 4x4x1/4 19'-10" OAL		674 lbs.
-85M	1	RAIL TUBE (LOWER) 4x4x1/4 16'-2 3/4" OAL		250.67 lbs.
-11M	1	RAIL TUBE (LOWER) 4x4x1/4 12'-8" OAL		162.13 lbs.

\* - ANCHORAGE ASSEMBLY BY OTHERS, NOT PROVIDED BY HIGHWAY SAFETY CORP. SHOWN FOR REFERENCE ONLY.

**TVGA**  
 Engineering, Surveying, P.C.

NO EXCEPTIONS TAKEN     REJECTED  
 FURNISH AS CORRECTED  
 REVISE AND RESUBMIT

ENGINEER has reviewed Shop Drawings and Samples and other data which Contractor is required to submit, only for conformance with the information given in the Contract Documents and compatibility with the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. Such review does not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions and programs incident thereto. Contractor is responsible for dimensions to be confirmed and correlated at the job site for information that pertains solely to the fabrication processes or to techniques of construction, and for coordination of the work of all trades.

BY: P.F. D. S.T.  
 DATE: 6/21/01

**CONSTRUCTION NOTE:**  
 END OF WINGWALLS HAVE BEEN LOCATED APPROXIMATELY BY VAOT SURVEY. CONTRACTOR SHALL VERIFY REQUIRED RAIL LENGTHS PRIOR TO APPROVAL.

**NOTES:**  
 1. ALL DIMENSIONS HAVE BEEN DEVELOPED FROM CONTRACT PLANS ONLY.  
 2. CONTRACTOR MUST FIELD-VERIFY DIMENSIONS PRIOR TO APPROVAL.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	4/2/01
1	AS-BUILT REVISIONS	

**HIGHWAY SAFETY CORP.**  
 GLASTONBURY, CT

ITEM 525.33 - BRIDGE RAILING - NETC 2 RAIL  
 PROJECT No. IM-089-2(26)  
 TOWN OF MIDDLESEX & BOLTON  
 1-89 OVER U.S. 2  
 BRIDGE No. 50S

DRAWN: C.A. Leblanc  
 CHECKED: [Signature]  
 DATE: 6/30/01  
 SCALE: NONE  
 HSC REFERENCE NO.: 1237

GENERAL CONTRACTOR: WINTERSET, INC.  
 SUB CONTRACTOR: F.R. LAFAYETTE, INC.

SHEET NO. 14 of 17