



ELEVATION - SOUTH BRIDGE RAIL
FACING SOUTH FROM CENTER OF ROADWAY
BRIDGE No. 48S

PAY LENGTH = 328'-8" (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.
44		RAIL POST W6x25 WITH BASE PLATE		4092 lbs.
*	44	ANCHORAGE ASSEMBLY WITH PLATE (4) ANCHOR STUDS & HARDWARE *		1188 lbs.
14		UPPER RAIL SPLICE TUBE 7x3x3/8 (1'-8" OAL)		553 lbs.
14		LOWER RAIL SPLICE TUBE 3x3x5/16 (1'-8" OAL)		259 lbs.
44		1/8" THICK BEARING PAD		22 lbs.
176		3/4" DIA x 6" LG. ROUND-SLOTTED HEAD BOLT WITH WASHER & LOCKNUT		151.36 lbs.
112		5/8" DIA x 1 3/4" HEX HEAD BOLT WITH HARDENED WASHER		31.36 lbs.
8		3/4" SCH 40 SPACER PIPE x 1/2" LONG		1.68 lbs.
-52M	2	RAIL TUBE (UPPER) 8x4x5/16 26'-9" OAL		655.38 lbs.
-24M	1	RAIL TUBE (UPPER) 8x4x5/16 15'-4" OAL		650 lbs.
-42M	7	RAIL TUBE (UPPER) 8x4x5/16 23'-0" OAL		3944.5 lbs.
-43M	1	RAIL TUBE (UPPER) 8x4x5/16 23'-0" (SLOTTED ONE END)		1127 lbs.
-25M	1	RAIL TUBE (UPPER) 8x4x5/16 15'-9" OAL		385.88 lbs.
-14M	1	RAIL TUBE (UPPER) 8x4x5/16 13'-3 5/8" (SLOTTED BOTH ENDS)		325.9 lbs.
-79M	1	RAIL TUBE (UPPER) 8x4x5/16 18'-8 3/4" OAL		267.46 lbs.
-80M	1	RAIL TUBE (UPPER) 8x4x5/16 26'-10 3/4" OAL		661 lbs.
-52M	2	RAIL TUBE (LOWER) 4x4x1/4 26'-9" OAL		342.4 lbs.
-24M	1	RAIL TUBE (LOWER) 4x4x1/4 15'-4" OAL		354.8 lbs.
-42M	7	RAIL TUBE (LOWER) 4x4x1/4 23'-0" OAL		2060.8 lbs.
-43M	1	RAIL TUBE (LOWER) 4x4x1/4 23'-0" (SLOTTED ONE END)		588.8 lbs.
-25M	1	RAIL TUBE (LOWER) 4x4x1/4 15'-9" OAL		201.6 lbs.
-14M	1	RAIL TUBE (LOWER) 4x4x1/4 13'-3 5/8" (SLOTTED BOTH ENDS)		170.27 lbs.
-79M	1	RAIL TUBE (LOWER) 4x4x1/4 18'-8 3/4" OAL		139.73 lbs.
-80M	1	RAIL TUBE (LOWER) 4x4x1/4 26'-10 3/4" OAL		330 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 reviews do not intend to insure, methods, techniques, sequences or procedures of construction or to safety precautions and programs incident thereto. Contractor is responsible for dimensions to be confirmed and controlled 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: *R.W.S.E.*
 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
 I-89 OVER LITTLE RIVER
 BRIDGE No. 48S

DRAWN: C.A. Leblanc
 CHECKED: *Paul K.*
 DATE: 08/30/01
 SCALE: NONE
 HSC REFERENCE NO.: 1237
 SIZE: D REVISION: 1
 SHEET NO.: 5 of 17

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