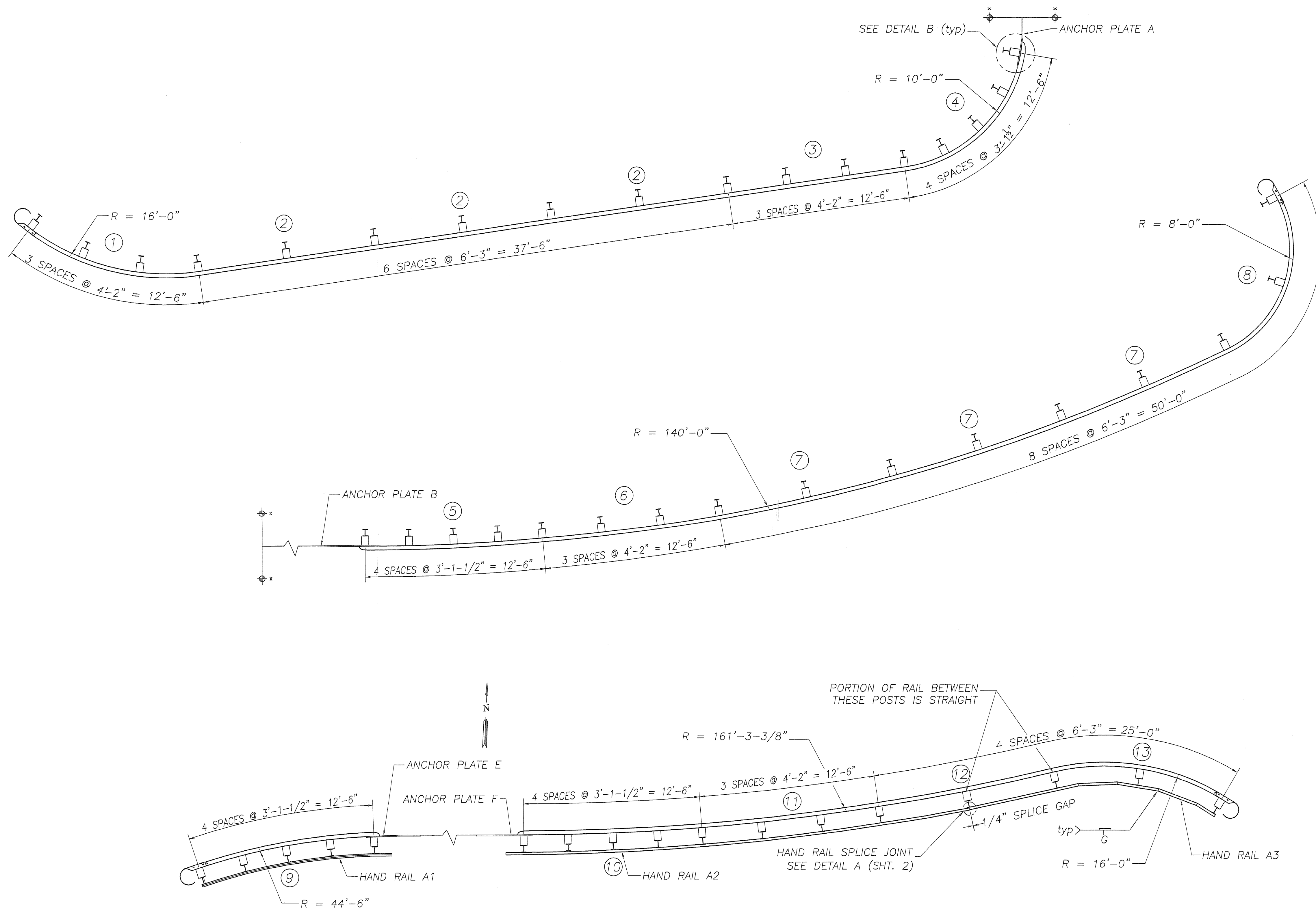




BILL OF MATERIAL				
Qty.	Description	Size/Shape	Length	Grade
33	driven post w/ holes in front face for W beam	W6 x 8.5	6'-0"	A36
17	driven post w/holes for W beam and hand rail	W6 x 8.5	6'-0"	A36
50	wood blockout	6" x 8"	14"	TIMBER
1	w beam R - 16' convex	4'-2"	12'-6"	M180 A2
2	w beam	6'-3"	12'-6"	M180 A2
3	w beam	4'-2"	12'-6"	M180 A2
4	w beam R - 10' convex	3' 1-1/2"	12'-6"	M180 A2
5	w beam R - 140' convex	3' 1-1/2"	12'-6"	M180 A2
6	w beam R - 140' convex	4'-2"	12'-6"	M180 A2
7	w beam R - 140' convex	6'-3"	12'-6"	M180 A2
8	w beam R - 8' convex	6'-3"	12'-6"	M180 A2
9	w beam R - 44'-6" convex	3' 1-1/2"	12'-6"	M180 A2
10	w beam R - 161' 3-3/8" concave	3' 1-1/2"	12'-6"	M180 A2
11	w beam R - 161' 3-3/8" concave	4'-2"	12'-6"	M180 A2
12	w beam R - 161' 3-3/8" concave	6'-3"	12'-6"	M180 A2
13	w beam R-16' convex	6'-3"	12'-6"	M180 A2
50	post bolt w/ DR nut washer and rec washer	5/8"	10"	A325
152	splice bolt w/ DR nut	5/8"	1-1/4"	A325
16	round head bolt w/ nut and washer	3/4"	2"	A307
4	w beam terminal connector			M180 A2
4	w beam single buffer			M180 A2
1	hand rail A1 R - 42' 10- 3/4"	TS 4x2x1/4	13' 6-11/16"	A500 gr B
1	hand rail A2 R - 162' 10-5/8"	TS 4x2x1/4	32' 8-13/16"	A500 gr B
1	hand rail A3 mitre & weld partial R - 14' 4-3/4"	TS 4x2x1/4	17' 9-3/16"	A500 gr B
4	end cap (welded to hand rail) pl 1/4x1-3/4"		3-3/4"	A36
18	round head bolt w/ hex nut and washer	3/4"	4"	A307

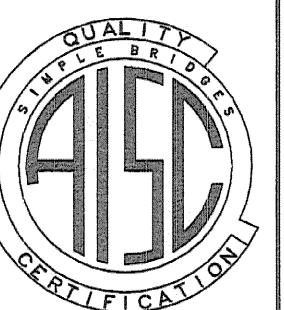
ITEMS PROVIDED BY OTHERS			
1	connection plate A 3/4" x 1' 0-1/4"	3' 6-3/8"	A36
1	connection plate B 3/4" x 1' 0-1/4"	3'-11"	A36
1	connection plate E 3/4" x 1' 0-1/4"	3' 10-1/4"	A36
1	connection plate F 3/4" x 1' 0-1/4"	3'-11"	A36

NOTES:

1. STEEL RAILING AND ANCHORAGE PLATES SHALL BE GALVANIZED & PAINTED BLACK (COLOR CHIP 27038) PER SECTION 513 OF VAOT STANDARD SPECIFICATIONS

2. HEAVY DUTY STEEL BEAM GUARD RAIL WILL INCLUDE THE 2" x 4" HAND RAIL TUBING AND WILL BE GALVANIZED AND PAINTED BLACK AS SPECIFIED ABOVE.

3. RADIUS ALL SHARP EDGES AND GRIND SMOOTH PRIOR TO GALVANIZING



VTrans - PDD

JUL 05 2006

Structures Design
Section

RECORD PLANS

REVISIONS		
No.	Remarks	Date
0	submitted for customer approval	4/13/06
1	final copy with a.a.n. corrections	4/13/06

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

HEAVY DUTY STEEL BEAM GUARDRAIL
MOD 1 w/o HAND RAIL & MOD 2 w/ HAND RAIL
TOWN OF JOHNSON
COUNTY OF LAMOILLE
ROUTE: TH2, BRIDGE NO. 6

GENERAL CONTRACTOR
SUB CONTRACTOR
FR LAFAYETTE

DRAWN C CRAMER
CHECKED
DATE 03/20/06
SCALE NTS
HSC REFERENCE NO.
1536
SIZE D REVISION 1
SHEET NO.
1 of 1