SPECIFICATIONS:

AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, ASD, 13TH EDITION. (ALLOWABLE STRESS DESIGN)

AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION.

ALL MATIERALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS SECTION 501.

NOTES:

1. ALL HP10 SHALL BE ASTM A572, GRADE 50 (FY = 50 KSI) UNLESS NOTED OTHERWISE
2. ALL W10, WT, ANGLE AND PLATE SHALL BE ASTM A709, GRADE 50 (FY = 50 KSI).
3. ALL WELDS SHALL BE PREQUALIFIED AND ALL WELDERS AWS AND GEORGIA DEPARTMENT OF TRANSPORTATION CERTIFIED. ALL FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CARD ISSUED BY THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70-18 LOW HYDROGEN ELECTORDES FOR MANUAL SHIELDED ARCH WELDING.
4. ALL WELDS SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.1 CURRENT EDITION.
5. USE E70-18 LOW HYDROGEN ELECTRODES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. SEAL WELD WHERE NOT STRUCTURAL WELDED.
7. ALL FASTENERS SHALL BE ¾" DIA., A325-SC U.N.O.314
8. ALL HOLES SHALL BE 13/16" DIA. STANDARD ROUND HOLES U.N.O.
9. ALL BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GDOT SPECIFICATIONS, 501.3.03A.
10. PRETENSION ALL ¾" DIA. BOLTS TO 28 KIPS EACH. DO NOT REUSE BOLTS.
11. EXCEPT FOR BARRIER CONNECTION, ALL STRUCTURAL STEEL SHALL BE PAINTED PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS COLOR: BLACK TO MATCH FEDERAL PAINT STANDARD FS 37038. PAINT WITH GEORGIA DOT SYSTEM VII.
12. BARRIER CONNECTION (PLATES V, S2, T AND REBAR) SHALL BE HOT DIPPED GALVANIZED PER ASTM A123. FOR ADDITIONAL NOTES, SEE SHEET 14 OF 16.
13. ESTIMATED DL DEFLECTION =⅜". FABRICATE TRUSS WITH ½" CAMBER AT MIDSPAN.
14. ANCHOR BOLTS SHALL BE AASHTO 314 (ASTM F1554), GR. 55. SWEDGE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
15. FABRICATOR SHALL FIT UP EACH VERTICAL PLANE OF TRUSS AND ENTIRE TOP CHORD WITH PORTAL, WIND AND CROSS BRACING PRIOR TO LEAVING THE SHOP TO ENSURE TRUSS SHALL FIT UP IN THE FIELD.
16. EXCEPT FOR BARRIER CONNECTION AND PLATE BB, ALL WELDING SHALL BE DONE IN THE FABRICATION SHOP.
17. FABRICATOR SHALL SHOP WELD T & S1 AS SHOWN IN DETAIL 10 TO POSTS AND DIAGONALS AFTER FIT UP AS STATED IN NOTE 15.
18. PORTAL FRAMES 1, 2 & 3 AND LONG. FRAMES SHALL BE SHOP WELDED AS SHOWN AND SHIPPED TO THE SITE AS A COMPLETE FRAME.
19. BEARING PADS SHALL BE DUROMETER 60 RUBBER.

LOADS:

DEAD LOAD ..... SELF WEIGHT

LIVE LOAD ..... SELF WEIGHT

WIND ..... PER AASHTO 3.15

FABRICATOR:

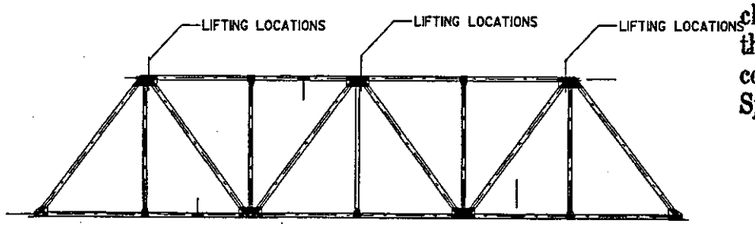
TIC FAB SHOP
1818 WEST GWINNETT ST.
SAVANNAH, GA 31415
912-235-4895

CONTACT: PAUL COLE

DATE: JUN 1 4 2012

Approved in general. Details not checked. This approval shall not relieve the Contractor of any responsibility for conformity with the contract Plans and Specifications.

Georgia DOT
Office of Bridge Design
By: DDF



FABRICATOR LIFTING LOCATIONS

TOTAL BILL OF MATERIAL

MARK	QTY.	DESCRIPTION	FT	IN	16TH	FAB MARK	MILL MARK	WEIGHT
			WEIGHT TOTAL = 88,671					
	2	HP10 X 42 - BOTTOM CHORD	31	3	12	BC1W		2630
	1	HP10 X 42 - BOTTOM CHORD	60	11	8	BC2W		2560
	1	HP10 X 42 - TOP CHORD	31	10	4	TC1W		1338
	1	HP10 X 42 - TOP CHORD	52	4	4	TC2W		2199
	2	HP10 X 42 - END DIAGONAL	32	2	14	D1W		2708
	4	HP10 X 42 - END DIAGONAL	31	10	5	D2W		4242
	5	W10 X 33 - POST	25	3	0	P1W		5257
	2	HP10 X 42 - BOTTOM CHORD	31	3	12	BC1E		2630
	1	HP10 X 42 - BOTTOM CHORD	60	11	8	BC2E		2560
	1	HP10 X 42 - TOP CHORD	31	10	4	TC1E		1338
	1	HP10 X 42 - TOP CHORD	52	4	4	TC2E		2199
	2	HP10 X 42 - END DIAGONAL	32	2	14	D1E		2708
	4	HP10 X 42 - END DIAGONAL	31	10	5	D2E		4242
	5	W10 X 33 - POST	25	3	0	P1E		5257
	5	WT8 X 33.5 - TOP CHORD	42	11	6	WT1		7194
	4	WT8 X 33.5 - DIAGONAL	28	0	6	WT2		3756
	4	WT8 X 33.5 - DIAGONAL	28	0	6	WT3		3756
	4	WT8 X 33.5 - TOP CHORD	20	4	0	WT4		2725
	20	L 6 X 4 X ⅜	21	6	7	L1		5298
	40	L 6 X 4 X ⅜	10	1	2	L2		4961
	4	L 6 X 4 X ⅜	2	2	8	L3		109
	16	L 6 X 4 X ⅜	2	2	8	L4		435
	16	L 6 X 4 X ⅜	9	3	6	L5		1823
	8	L 6 X 4 X ⅜	19	6	10	L6		1923
	4	PL ¾X 1-7	2	5	0	A		39
	8	PL ¾X 1-11½	2	7	6	B		1254
	16	PL ⅜X 4¾	0	8	14	C		72
	4	PL ¾X 1-1⅝	3	2	14	D		451
	26	PL ¾X 5	0	7	0	E		194
	8	PL ¾X 2-0	4	7	4	F		2256
	10	PL ⅜X 7	0	7	6	G		55
	4	PL ¾X 1-0½	1	3	0	H		160
	20	PL ¾X 1-4	1	9	0	J		1429
	2	PL ¾X 1-1⅝	4	3	8	K		298
	12	PL ¾X 2-0	4	4	6	L		3208
	2	PL ¾X 1-7¼	2	3	4	M		223
	2	PL ¾X 3-4	3	4	8	N		689
	1	PL ¾X 2-3¼	2	3	4	P		158
	12	PL ½X 9¼	2	2	8	Q		417
	24	PL ½X 3⅞	2	2	8	R		349
	22	PL ¾X 8	0	5	0	S1		187
	22	PL ¾X 8 GALV.	0	5	0	S2		187
	44	PL ¾X 4¾	0	4	12	T		211
	44	PL ¾X 4¾ GALV.	0	4	12	T		211
	22	PL ½X 1-4 GALV.	1	4	0	V		799
	2	PL ⅜X 1-4⅜	1	4	6	X1		57
	4	PL ⅜X 11½	0	6	8	X2		32
	14	PL ⅜X 1-3⅛	4	11	12	Y		1345
	3	PL ⅜X 11½X 1-11⅜	1	11	6	Z1		174
	6	PL ⅜X 11½	0	6	8	Z2		48
	10	PL ⅜X 7	0	7	8	AA1		56
	10	PL ⅜X 4	0	7	8	AA2		32
	4	PL ¾X 8	1	0	0	BB		82
	22	1"ø	0	9	0	PIN		44
	22	PL ½ X 3	0	3	0	PIN		28
	88	#4 REBAR GALV.	1	4	0	REBAR		78
	1316	¾"ø ASTM A325 BOLTS (LENGTHS TBD BY FABRICATOR)						
	16	¾"ø ASTM F1554, GR. 55 ANCHOR BOLTS, GALV.						

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

FOR: HIGHWAY MATERIALS, INC.
5120 OLD DIXIE HIGHWAY
FOREST PARK, GA 30297

	NAME	DATE		NAME	DATE
DESIGNED BY	T. SCHMITZ	6/11/12	DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY	TIM SCHMITZ, P.E.				

BY: STRUCTURAL ENGINEERING SOLUTIONS, LLC
TRANSPORTATION AND CONSTRUCTION STRUCTURAL ENGINEER
3260 Iceline Way, Smyrna, Georgia 30080
P: 404-664-6383 F: 678-298-1623 Tim@StrEngSolutions.com

SHOP DWG FOR ARCHITECTURAL TRUSS
SIXTH ST. OVER S.R. 155, C.R. 729 AND NORFOLK SOUTHERN RAILWAY
BRSTL-2517-00(001) SPALDING COUNTY

PROJECT NO. 10041116
DRAWING NO. 1 OF 16

User Name: TLS Date: 6/12/2012 Time: 12:08:41 PM Filename: SAV004 - Highway Materials\10041116 - Spalding Truss Shop\10041116-truss-06220012.dgn