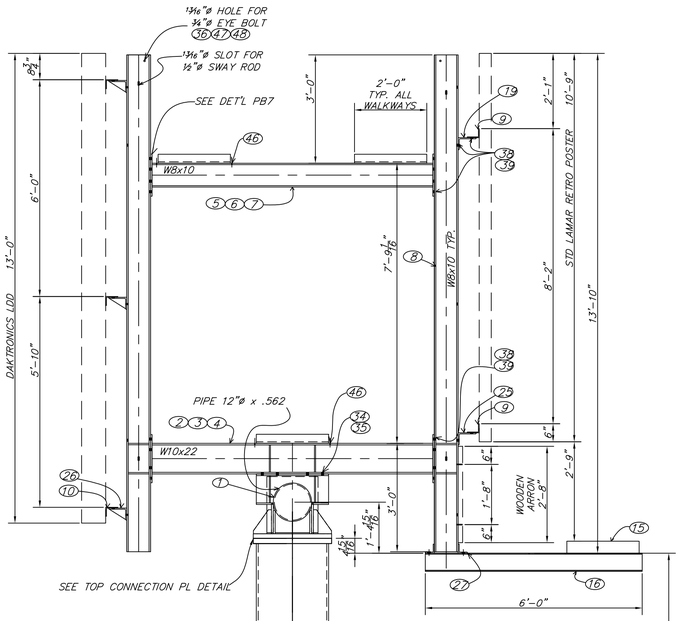
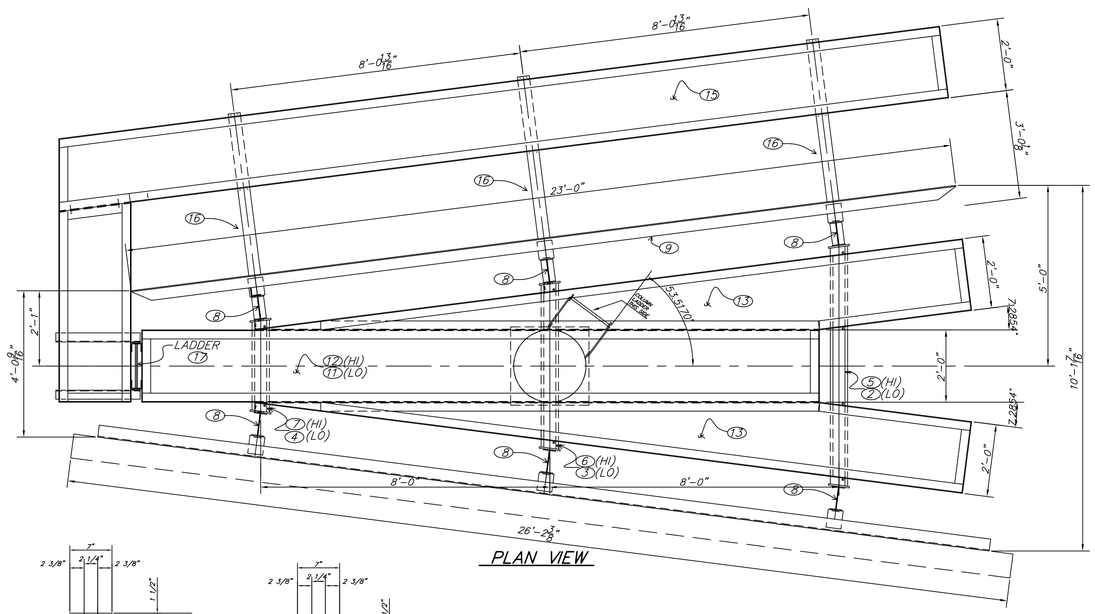
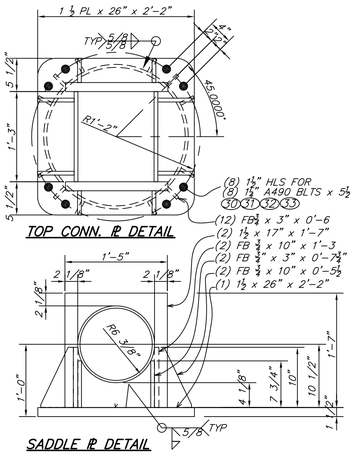


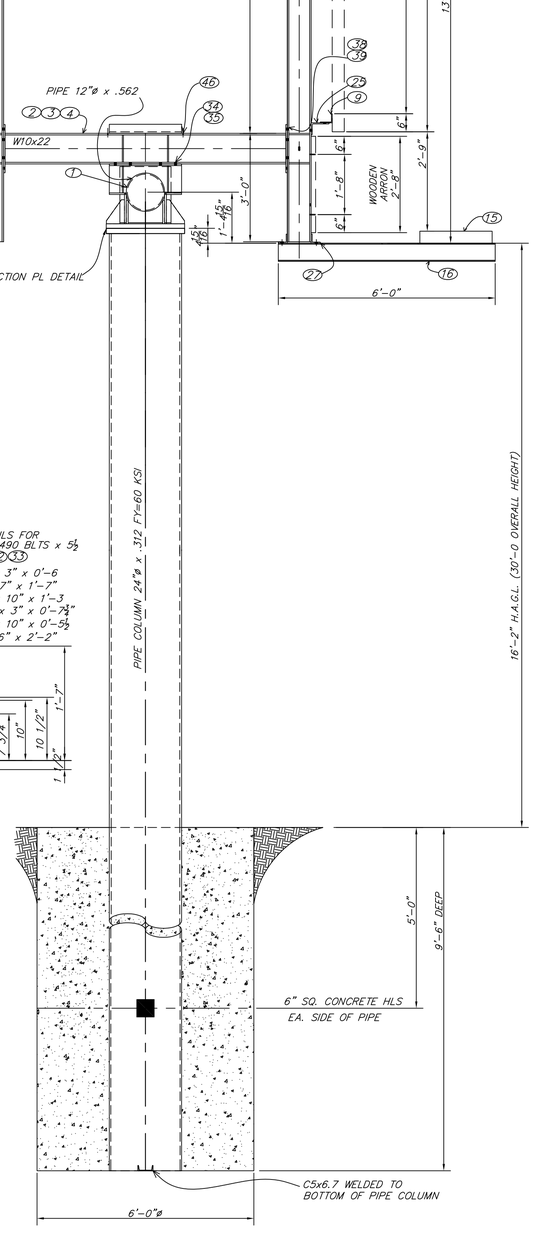


PLAN VIEW

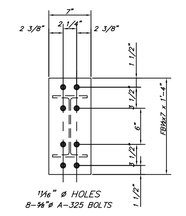


TOP CONN. PL DETAIL

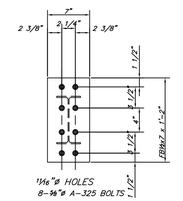
SADDLE PL DETAIL



WIDE END VIEW



SIX – PC



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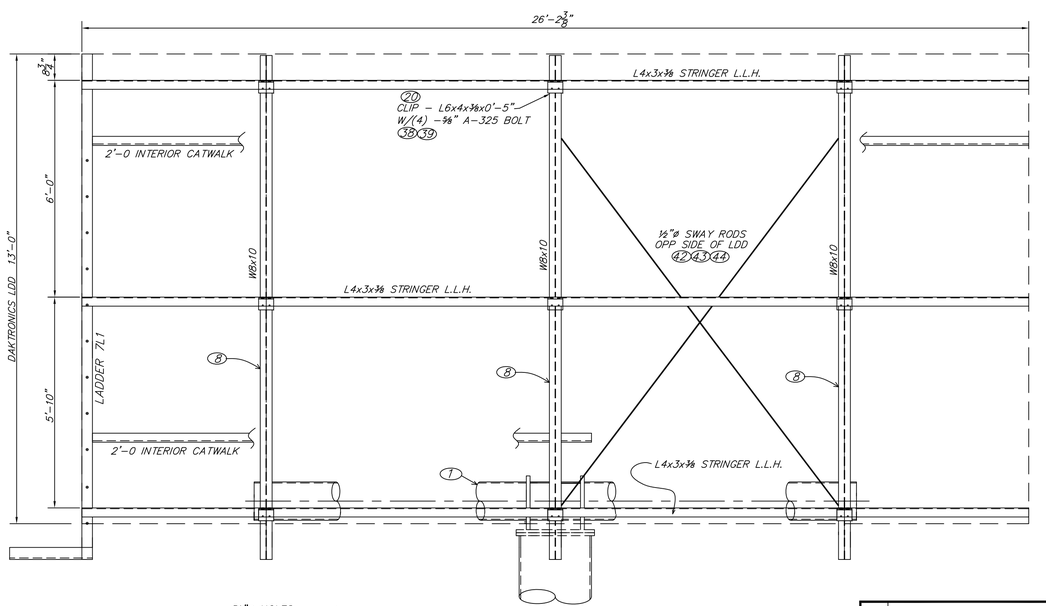
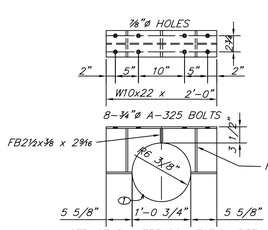
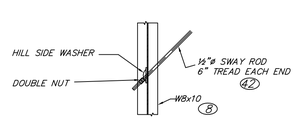


RIGHT SIDE ELEV.



STRUCTURAL TEE CONNECTION DETAIL



SECTION THRU VERTICAL BEAM

SWAY ROD DETAIL

1"=1'-0

General Notes

1) All Bolts Shall Be A-490 & A-325.
2) All Nuts and Bolts to be Plated.
3) All Structural Steel Shall Conform to the Requirements of A.S.T.M. A-36.
4) All Structural Pipe Shall Have an Fy=36 K.S.I. , unless otherwise noted on drawing. (All New Straight Seam Pipe.)
5) Concrete Shall Develop a Minimum compressive strength of f'c=3000 P.S.I. in 28 Days.
6) All Structural Steel Shall be Fabricated and Erected According to the Latest A.I.S.C. Specifications and Code of Standard Practice.
7) Welding Shall be in Accordance with A.W.S. Standards. Welding to be performed by certified welders using E-70 electrodes.
8) Structural Steel Shall be Shop Primed and Painted.
9) All Walkways Framed W/L4x3x1/4 Outside Use 3# Exp. Metal, L3x3x1/4 Inside Use 2# Expanded Metal Min., 1/4x2FB @ Ea. Exp. Metal Splice. Hot Dip Galvanize All Walkways.
10) All Welds to be Continuous All Around. Minimum 1/4" Weld Required.
11) Design Windload is per the 2003 I.B.C., 40 P.S.F.
12) Design Soil Pressure is 2500 P.S.F. Customer to Verify.
13) Structure Designed to Support One Doktronics LDD, Weighing 3900#.

ITEM	DESCRIPTION	DWG #	SHIP MK #	QTY	REMARKS
1	TORSION BAR	10X23 D101	1TB1	ONE	STANDARD
2	LOWER SPREADER, LONG	10X23 D203	2B1	ONE	STANDARD
3	LOWER SPREADER, MID	10X23 D203	2B2	ONE	STANDARD
4	LOWER SPREADER, SHORT	10X23 D203	2B3	ONE	STANDARD
5	UPPER SPREADER, LONG	10X23 D203	2B4	ONE	STANDARD
6	UPPER SPREADER, MID	10X23 D203	2B5	ONE	STANDARD
7	UPPER SPREADER, SHORT	10X23 D203	2B6	ONE	STANDARD
8	UPRIGHT BEAMS	D301	3C1	6	MODIFIED
9	STRINGER, POSTER	10X23 D401	4A1	2	STANDARD
10	STRINGER, VIDEO	D401	4A2	3	MODIFIED
11	WALKWAY, LO INSIDE MIDDLE	10X23 D609	6W1	ONE	STANDARD
12	WALKWAY, HI INSIDE MIDDLE	10X23 D609	6W2	ONE	STANDARD
13	WALKWAY, INSIDE WING R/L	10X23 D609	6W3 R/L	1R/1L	STANDARD
14	WALKWAY, OUTSIDE X-OVER	D507	5W4	ONE	MODIFIED
15	WALKWAY, OUTSIDE	D507	5W5 L	1L	MODIFIED
16					
17	LADDER	10X23 D701	7L1	ONE	MODIFIED
18					
19					
20					
21					
22					
23	COLUMN	THIS DWG		ONE	CUSTOM
24	WALKWAY HANGER	W1	W1	3	STANDARD
25	STRINGER CLIP	A1	A1	6	STANDARD
26	STRINGER CLIP W/ GUSSET	D1	D1	9	STANDARD
27	WALKWAY CLIP	AW1	AW1	6	STANDARD
28					
30	1 1/4ø X 5 1/2" A490 BOLT			8	HEAD BOLTS
31	1 1/4ø A490 NUT			8	HEAD BOLTS
32	1 1/4ø A490 LOCK WASHER			8	HEAD BOLTS
33	1 1/4ø A490 FLAT WASHER			16	HEAD BOLTS
34	3/4øx 2" A490 BOLT W/NUT			40	
35	3/4ø A490 FLAT WASHER			100	
36	3/4øx 2" EYE BOLT W/ NUT			8	
37					
38	5/8ø x 2" A325 BOLT W/NUT			150	
39	5/8ø A490 FLAT WASHER			300	
40	1/2ø x 1 1/2" BOLT W/NUT			20	
41	1/2ø FLAT WASHER			50	
42	1/2ø SWAY ROD x 1'3"-0			2	
43	1/2ø SWAY ROD NUT			8	
44	1/2ø HILL SIDE WASHER			4	
45	1/2ø x 5" "J" BOLT W/ NUTS			12	
46	1/2ø x 4" "J" BOLT W/ NUTS			16	
47	LIN. FT 3/8ø SAFETY CABLE			85	
48	3/8ø SAFETY CABLE CLAMPS			30	
49					
50					

NO.	DESCRIPTION	BY	DATE
1	CHANGE FTG DESIGN	AJW	8/7/07

REVISION

KEELER IRON WORKS, INC.
Custom Steel Fabricators
1969 Harbor Ave.
Memphis, TN 38113

LAMAR
COLORADO SPRINGS, CO
10'-9 X 23'-0, 10' V CENTR MOUNT, RETRO POSTER ONE SIDE 13'-9 x 28'-0 DAKTRONICS LDD 09' SIDE 30'-0 O.A.H., 40 P.S.F.

Dsgn. AJW
Chkd.
Scale 1/4"=1'-0
Date 7/12/07

Effective Engineering Solutions, Ltd.
61 White Water Court
New Lenox, IL 60451
(815) 485-1470

FILE 4813
SHEET NO. E1