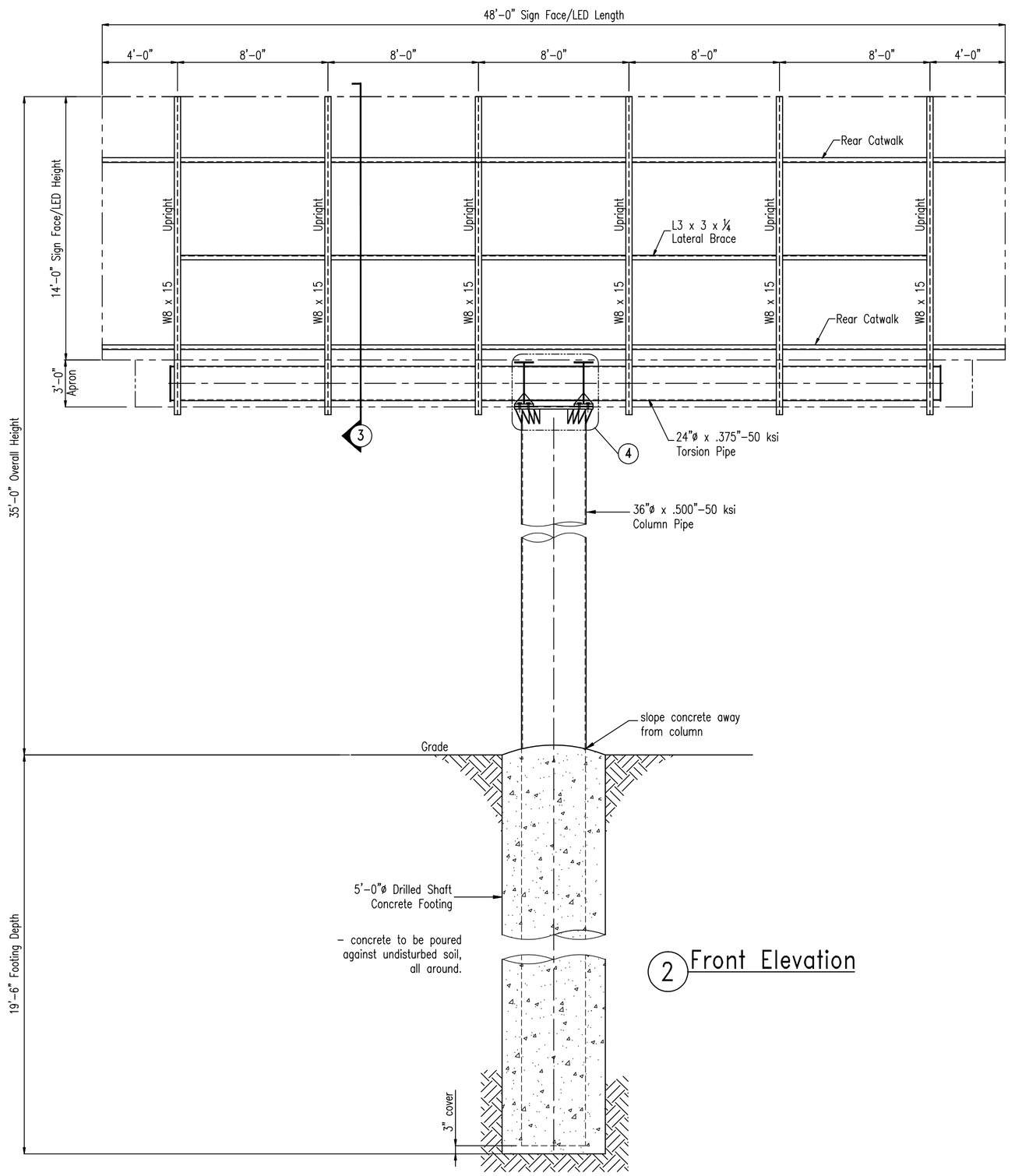
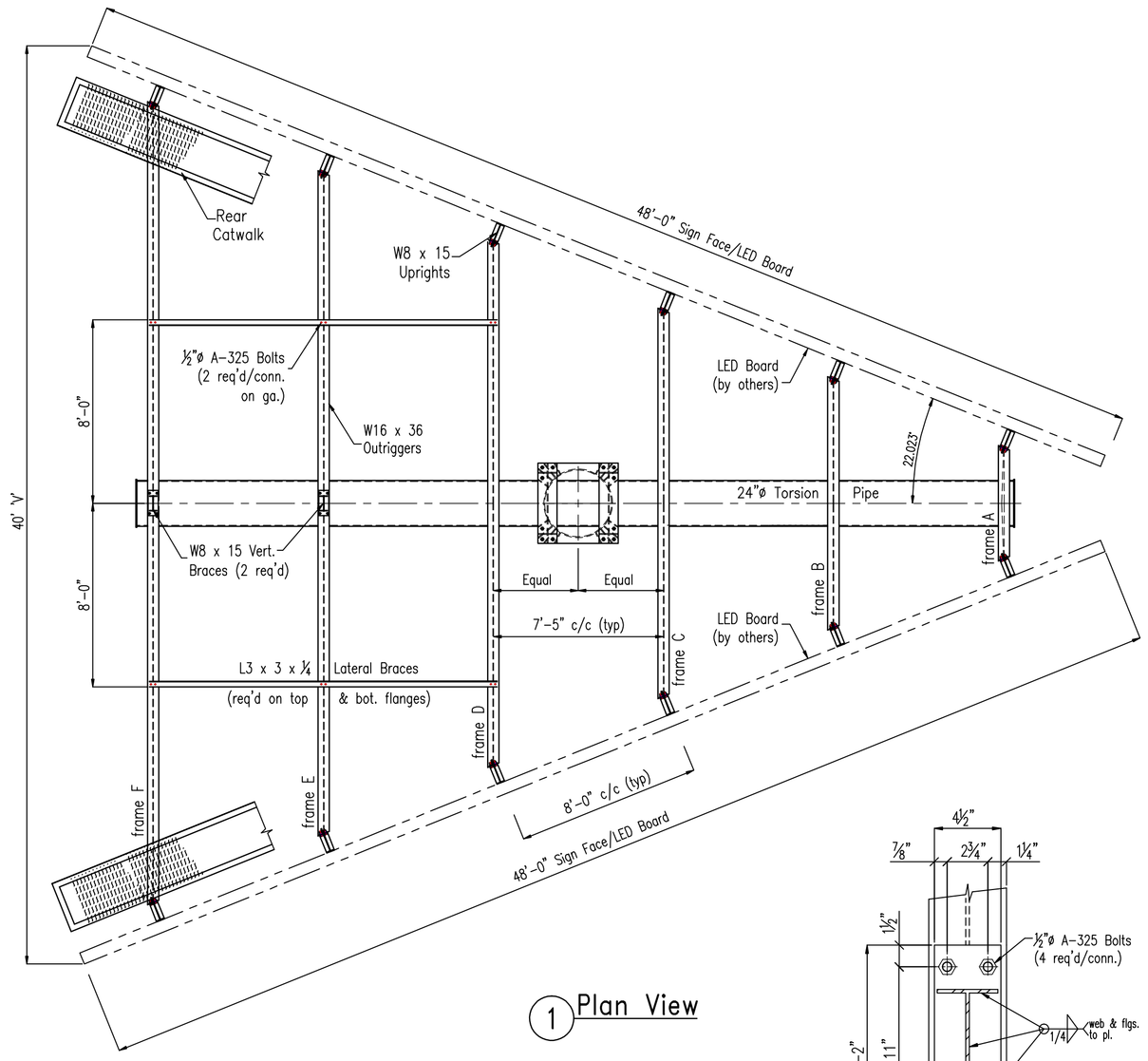
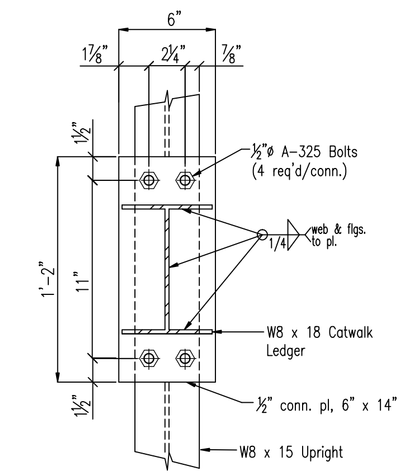


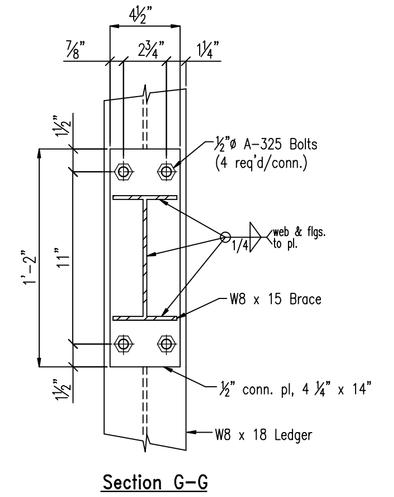
2 Front Elevation



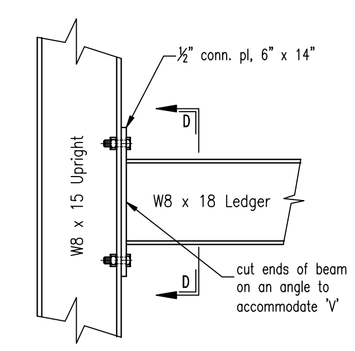
1 Plan View



Section D–D



Section G–G



7 Ledger Connection

NOTES

1) Footing design based on soil conditions of medium stiff clay, compact fine sand, or better. (allowable soil pressure = 250 psf/ft of depth) Notify Engineer if other than these conditions exist.

2) This structure has been designed to support (2) 8,000 lb. LED Boards (Daktronis or WatchFire)

3) Design & construction of LED Board and attachment of board to structure, by others.

4) Provide ¼" cap plates for end of torsion pipe. Cap plates to be welded, all around, to pipe.

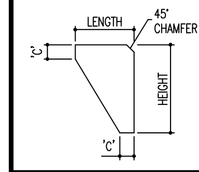
5) Attached catwalks to ledgers using ½"ø J-Bolts (2 req'd/ledger)

6) Catwalk grating to be 3.14 p.s.f. expanded metal grating. (weld to catwalk angles with a ¼" fillet weld, 1" lg. @ 12" c/c)

DATE	REVISION	NO.
2/28/18	Changed OAH to 35'-0" & modified footing depth.	R1

TYPICAL GUSSET DETAIL

USE THIS CRITERIA FOR ALL GUSSETS



- for gussets up to ¾" thick, 'c' = ½"
- for gussets ¾" thick & greater, 'c' = 1"
- if not specified, length & height of gussets to be determined by fabricator, use maximum length & height possible & still allow for welding all around.
- depth of 45° chamfer to be minimum required to clear weld or fillet.

GENERAL NOTES

- ALL NUTS AND BOLTS ARE TO BE ZINC PLATED. (except A-490 bolts, which are not to be plated, but primed and painted after installation)
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION OR CONSTRUCTION, AND NOTIFY ENGINEER OF ANY DISCREPANCIES
- ANY DEVIATIONS FROM THIS PRINT MUST BE APPROVED BY ENGINEER.
- STRUCTURAL STEEL SHAPES & PLATES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-36, and WIDE FLANGES TO A.S.T.M. A992. (except structural tubing, which shall conform to A-500, grade B)
- ALL STEEL PIPE SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-53, GRADE B OR A-252, GRADE 2; UNLESS OTHERWISE NOTED.
- ALL STRUCTURAL STEEL SHALL BE PRODUCED, FABRICATED, AN ERECTED IN ACCORDANCE TO THE LATEST A.I.S.C. SPECIFICATIONS AND STANDARD PRACTICES.
- ALL WELDING SHALL BE IN ACCORDANCE WITH A.W.S. STANDARDS. WELDING TO BE PERFORMED BY CERTIFIED WELDERS USING E-70 ELECTRODES.
- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF Fc = 3000 p.s.i. IN 28 DAYS, UNLESS OTHERWISE NOTED.
- CONTRACTOR TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, & LOCAL CODES & ORDINANCES; AND O.S.H.A. SAFETY REGULATIONS.
- VERIFY WITH OWNER ALL SIGN HEAD ACCESS REQUIREMENTS. (i.e. COLUMN & ACCESS LADDER(S), CROSSOVER/WALK-AROUND CATWALKS, ect.)
- VERIFY CORRECT STRINGER SPACING WITH OWNER PRIOR TO FABRICATION.
- H.A.G.L. = Height Above Ground Level

APPLICABLE BUILDING CODE AND WIND SPEED:
2014 NY Bldg. Code/2102 I.B.C. (115 mph – Exp. C) – Cat. II

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

PROJECT:
14' x 48' Centermount – 40' 'V'
LED Structure @ 35'-0" Overall Height

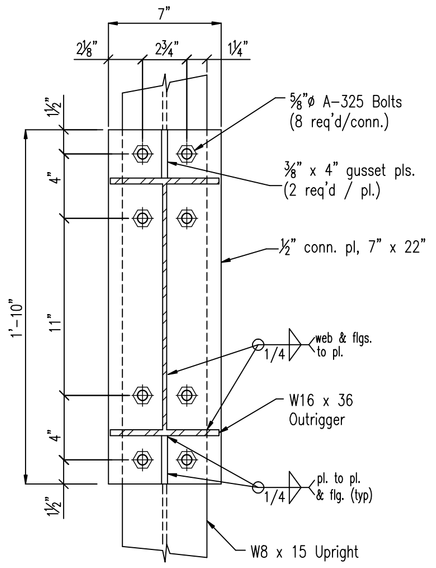
CLIENT:
Eagle Tubular Products, Inc.

THIS PRINT CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE USED, REPRODUCED, OR ITS CONTENTS DISCLOSED, IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT FROM THE ABOVE CLIENT.

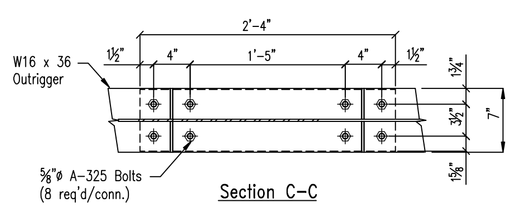
THE UNDERSIGNED ENGINEER WILL NOT SUPERVISE THE FABRICATION AND ERECTION OF THIS STRUCTURE.

AFFIX SEAL:

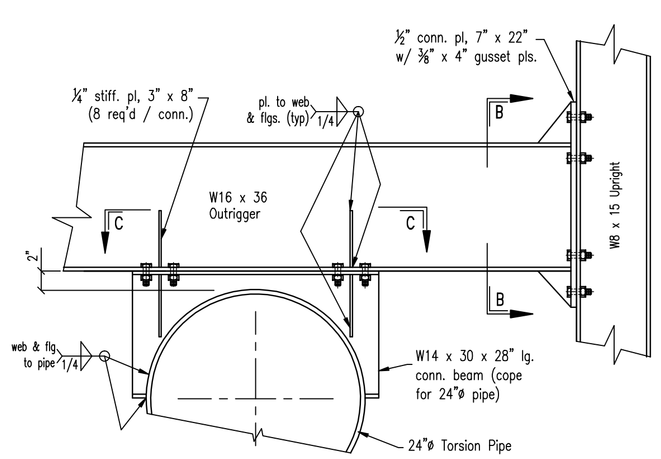
LOCATION:	Chester, NY
EESL JOB NO:	72968
ENGINEERED BY:	CWL
DRAWN BY:	DBM
DATE DRAWN:	9/2/2016
DRAWING NO:	1 of 1 71122-R1



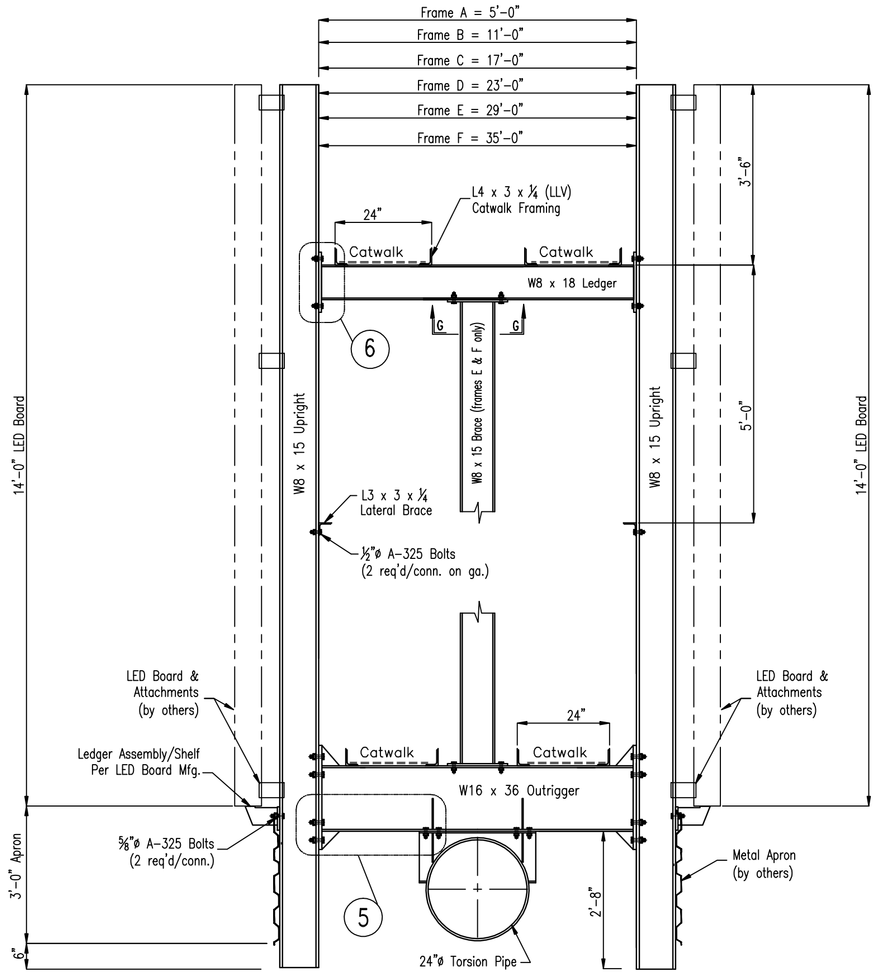
Section B–B



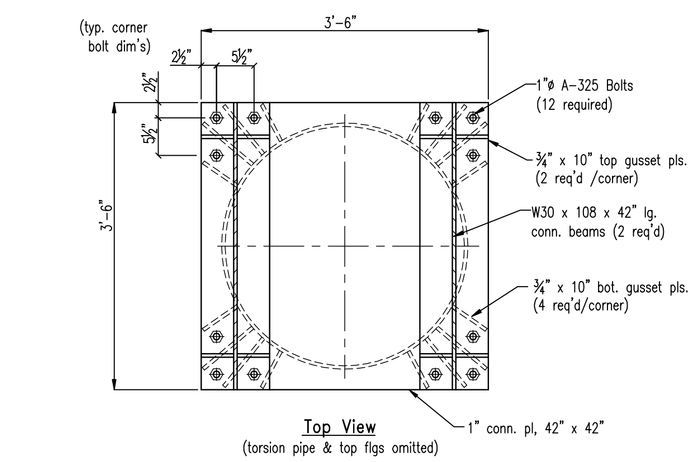
Section C–C



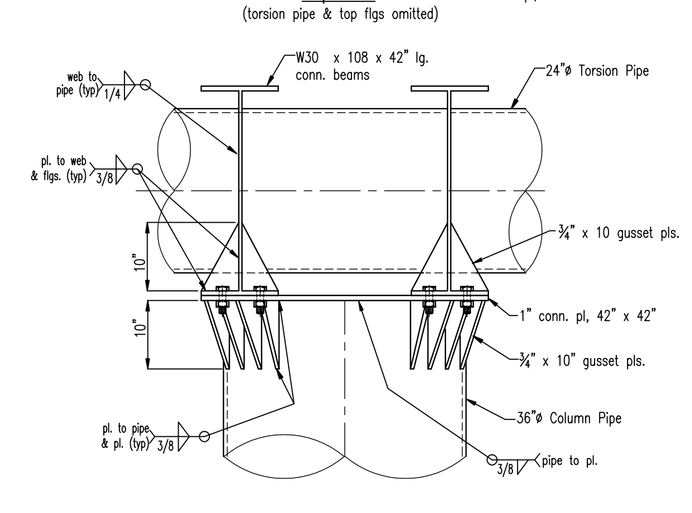
6 Outrigger & Upright Connection
– Cut ends of outrigger beam on an angle to accommodate 'V'



3 Frame Detail



Top View
(torsion pipe & top flgs omitted)



4 Column Connection