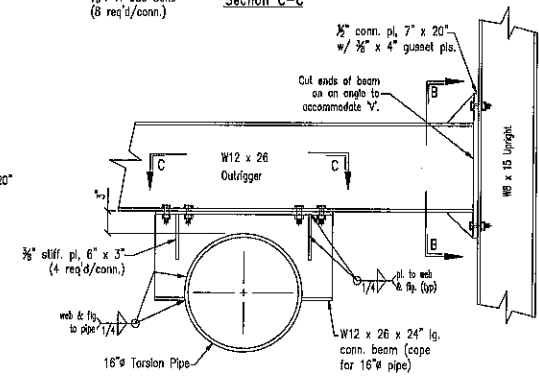
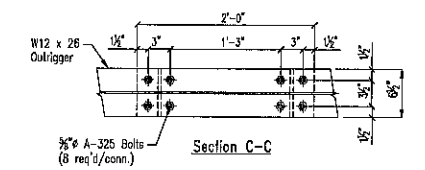
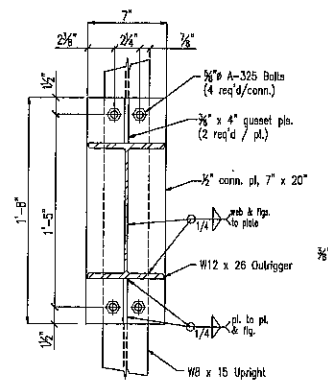
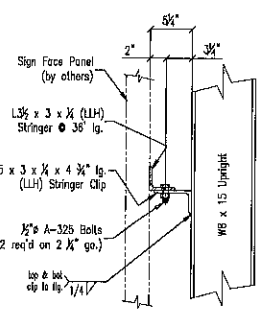
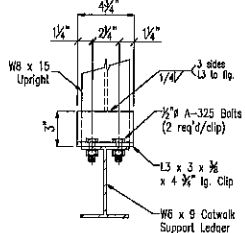
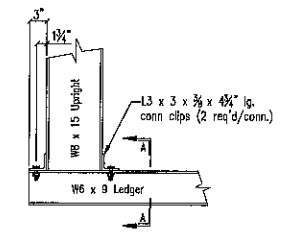
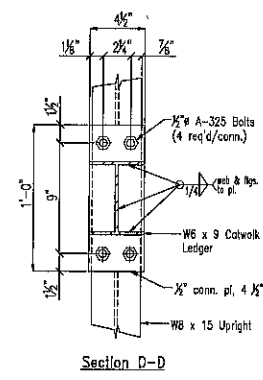
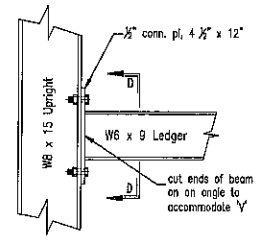
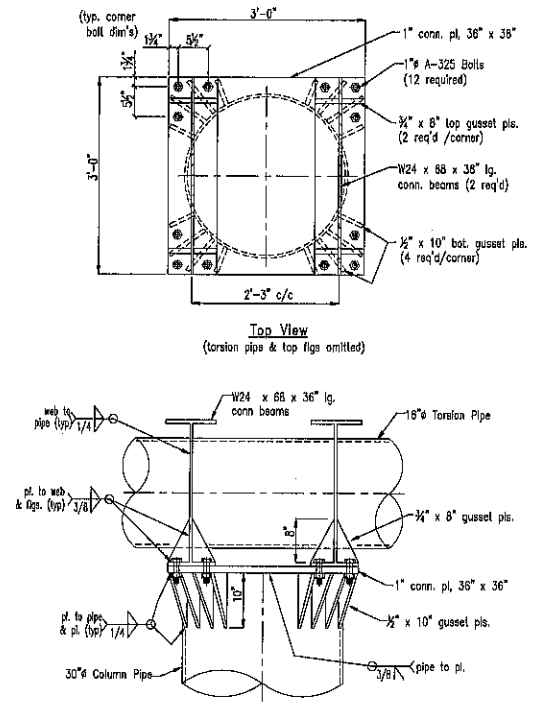
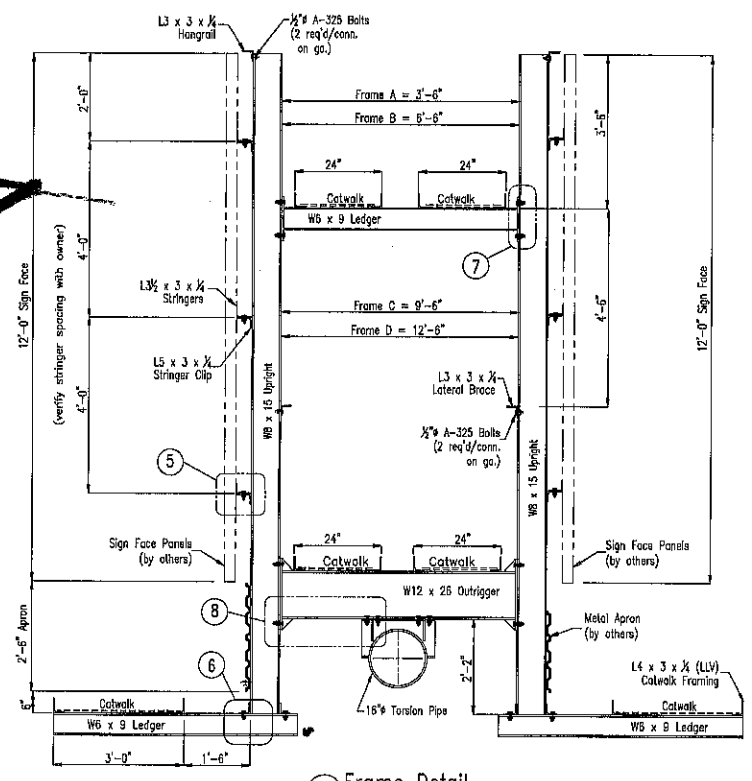
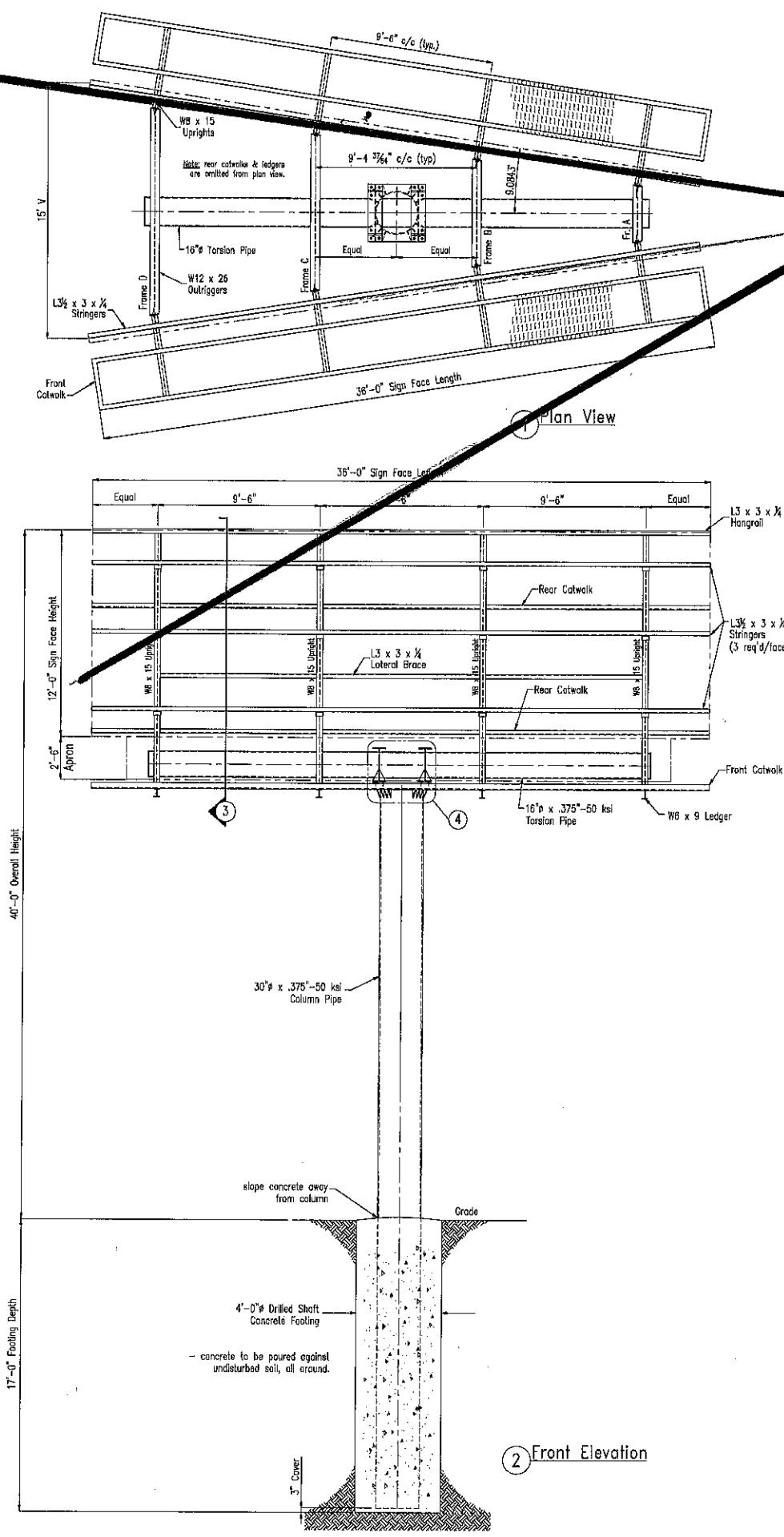


235' span

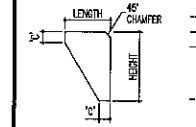


NOTES

- 1) Footing design based on soil conditions of medium stiff clay, or better, (allowable soil pressure = 250 p.s.f. / ft. depth) Notify Engineer if other than this condition / condition.
- 2) Provide "K" cap plates for end of torsion pipe. Cap plates to be welded, all around, to pipe.
- 3) Attached catwalks using $\frac{1}{2}$ " J-Bolts (1 req'd/conn.)
- 4) Catwalks grating to be 3.14 p.s.f. expanded metal grating, (weld to catwalk angles with $\frac{1}{4}$ " fillet weld, 1" lg. @ 12" c/c)

TYPICAL GUSSET DETAIL

USE THIS CRITERIA FOR ALL GUSSETS



- for gussets up to $\frac{3}{4}$ " thick, 'C' = $\frac{1}{4}$ "
- for gussets $\frac{3}{4}$ " 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 FABRICATING OR CONSTRUCTING. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITIES
 - * ANY DEVIATIONS FROM THIS PRINT MUST BE APPROVED BY ENGINEER.
 - * STRUCTURAL STEEL SHEARS & PLATES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-36, and WIDE FLANGES TO A.S.T.M. A582. (except structural tubing, which shall conform to A-502, grade B)
 - * ALL STEEL PIPE SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-53, GRADE B, SCH 40, E.P. 2, UNDRER 24 INCHES
 - * ALL STRUCTURAL STEEL SHALL BE PRODUCED, FABRICATED, AN ELECTRIC 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 $f_c = 3000$ p.s.i. IN 28 DAYS, UNLESS OTHERWISE SPECIFIED.
 - * CONTRACTOR TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, & LOCAL CODES & ORDINANCES, AND O.C.M.A. SAFETY REGULATIONS.
 - * WEDDER WITH OWNER ALL SIGN HEAD REQUIREMENTS, (i.e. COLUMN & ACCESS LADDERS), CROSSOVER/WALK-AROUND CATAWKS, ect.)
 - * VERIFY CORROST STRIPPER SPACING WITH OWNER PRIOR TO FABRICATION.
- * H.A.C.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: 12' x 36' Centermount
15' V Sign Structure @ 40'-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.

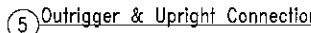
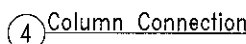
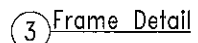
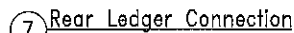
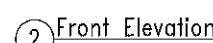
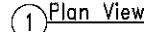
AFFIX SEAL:	LOCATION: Chester, NY
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	Chester, NY
ENGINEERED BY:	

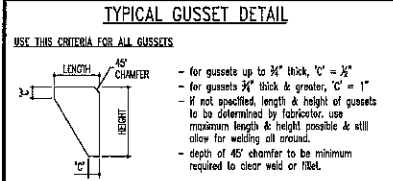
	ENGINEERED BY:	CWL
	DRAWN BY:	

	DRAWN BY:	DBM
	DATE DRAWN:	

DATE DRAWN:	8/22/2016
DRAWING NO:	



- ### 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 (Dukotrons or Watchfire)
 - 3) Design & construction of LED Board and attachment of board to structure, by others.
 - 4) Provide $\frac{1}{2}$ " cap plates for end of torsion pipe. Cap plates to be welded, all around, to pipe.
 - 5) Attached catwalks to ledgers using $\frac{1}{2}$ " 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 $\frac{1}{4}$ " fillet weld, 1" lg. @ 12" o/c)



- ## GENERAL NOTES
- ALL NUTS AND BOLTS ARE TO BE ZINC PLATED. (except A-490 bolts, which are not to be plated, but oriented away from contact after installation)
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATING. ANY DISCREPANCIES OR CHANGES IN DIMENSIONS OR DISCREPANCIES
 - ANY DEVIATION 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 lightweight tubing, which shall conform to A-500, grade D)
 - ALL STEEL MUST CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-36, GRADE B OR A-232, GRADE II, UNLESS OTHERWISE NOTED.
 - ALL STRUCTURAL STEEL SHALL BE PRODUCED, FURNISHED, AND 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 (E-C-7), E-70, E-80.
 - CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF $F_c = 3000$ PSI, IN 28 DAYS, UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL SPECIFICATIONS AND O.S.H.A. SAFETY REGULATIONS.
 - VERIFY WITH OWNER ALL SIGN ROAD ACCESS REQUIREMENTS. (i.e. COLUMN & ACCESS LADDER(S), CROSSOVERS/RAIL-MOUNTED CRAWLERS, etc.)
 - VERIFY CORRECT STRENGTH SPACING WITH OWNER PRIOR TO FABRICATION.
 - H.A.R.D. = Heavy Load 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 - 15' 'V'
LED Structure @ 40'-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
	ENGINEERED BY:
	CWL
	DRAWN BY:
DEM	
DATE DRAWN:	8/23/2016
DRAWING NO:	1 of 1 71066

ENGINEERED BY: CWI

DRAWN BY: DDH

DATE DRAWN: 8/23/2016

DRAWING NO:
1 of 1 71066