CASE # C16-2015-0008
ROW 1345841
TAX 0248030404
TCAD ✓

WARNING: Filing of this appeal stops all affected construction activity.

PLEASE: TYPE AND COMPLETE ALL REQUESTED INFORMATION.

STREET ADDRESS:__8901 Business Park Dr, Austin, TX__

LEGAL DESCRIPTION: Subdivision – _1_

     Lot(s)_1_ Block_____ Outlot_____ Division_North Crossing Subdivision_

I/We_David Buddemeyer_ on behalf of myself/ourselves as authorized agent for

_8901_ affirm that on _3\9\4_, 20_15_ hereby apply for a hearing before

the Sign Review Board for consideration:

ERECT – ATTACH – COMPLETE –(REMODEL)– MAINTAIN

Remodel to new owner/tenants branding
_____

in a ___CS___ zoning district, located within the _____ Sign

District.

If your variance request is for a reduction in setbacks or height limits, please contact Lena Lund with the Electric Utility at 322-6587 before filing your application with this office to discuss your request. The Electric Utility will recommend the board deny your request if it will result in an encroachment into an electric easement or a NESC violation.

NOTE: The Board must determine the existence of, sufficiency of and weight of evidence supporting the findings described below. In order to grant your requeste for a variance, the Board must first make one or more of the findings described under 1, 2, and 3 below; the Board must then make the finding described in item 4 below. If the Board cannot make the required findings, it cannot approve a sign variance.

Therefore, you must complete each of the applicable Findings Statements as part of your application. Failure to do so may result in your application being rejected as incomplete. Please attach any additional support documents.

VARIANCE FINDINGS: I contend that my entitlement to the requested variance is based on the following findings:

1. The variance is necessary because strict enforcement of the Article prohibits any reasonable opportunity to provide adequate signs on the site, considering the unique features of a site such as its dimensions, landscaping, or topography, because: ___ a 35' sign will not be visible from Loop 1/Mopac Expressway. Adequate visibility will keep Loop 1/Mopac Expressway traffic from slowing to look for the hotel___

OR,

2. The granting of this variance will not have a substantially adverse impact upon neighboring properties, because: There are no homes in the area, and the sign is not a flashing, blinking or a strobe type sign.

OR,

3. The granting of this variance will not substantially conflict with the stated purposes of this sign ordinance, because:_____ This is a like for like change, only the branding is changing_____

AND,

4. Granting a variance would not provide the applicant with a special privilege not enjoyed by others similarly situated or potentially similarly situated, because:_____ There are no other properties in the immediate area that have or require a large pole/pylon sign_____

APPLICANT CERTIFICATE – I affirm that my statements contained in the complete application are true and correct to the best of my knowledge and belief.

Signed_____ Mail Address 1300B West Industrial Blvd.

City, State & Zip Round Rock, TX 78681   email: mark@libertysignstx.com

Printed Mark Rocke   Phone 512-255-3887 Date 4/15/15

OWNERS CERTIFICATE – I affirm that my statements contained in the complete application are true and correct to the best of my knowledge and belief.

Signed_____ Mail Address 11770 US Highway One Ste 202

City, State & Zip North Palm Beach, FL 33408

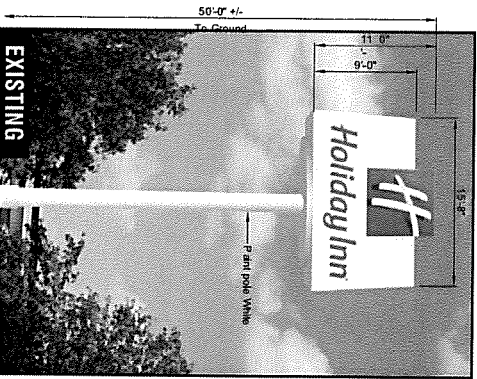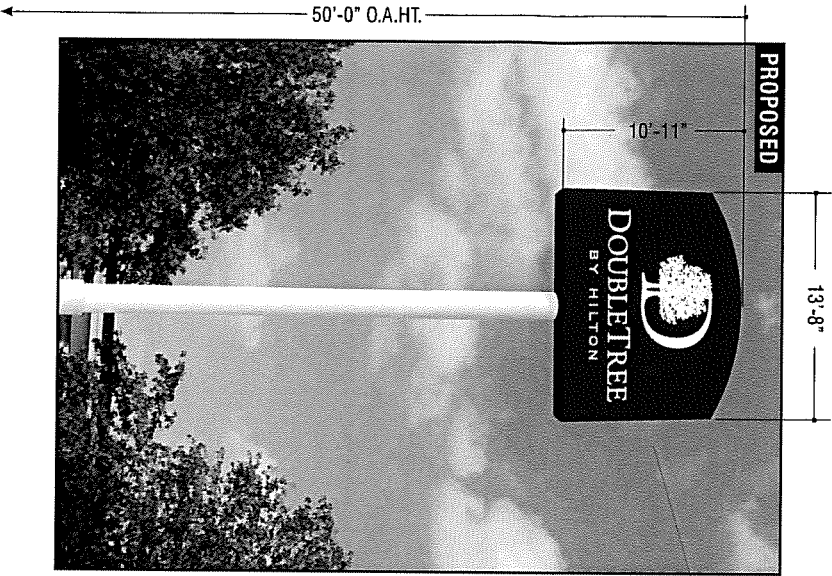Printed David Budlemeyer Phone 561-207-2700 Date 03/3/15

ADDITIONAL INFORMATION TO BE SUBMITTED WITH COMPLETED APPLICATION: (FAILURE TO SUBMIT ALL THE REQUIRED MATERIALS WILL RESULT IN NON-ACCEPTANCE OF THE APPLICATION. **LATE BACKUP MATERIAL WILL BE**

Remodel D/F Illuminated Pylon Sign

P-150

PROPOSED

50'-0" O.A.HT.

10'-11"

13'-8"

DOUBLETREE BY HILTON

VIEW FROM HIGHWAY

EXISTING

50'-0" +/- To Ground

11'-6"

9'-0"

15'-8"

Holiday Inn

Paint Pole White

EXISTING HI-RISE SIGN TO BE REMOVED - REUSE POLE

D Illuminated D/F Pylon Sign **4**

Reference Drawing B66455G For Fabrication Specifications

N.T.S.

Austin, TX

Artwork
Design
Survey
COMPANION FILES
PRODUCTION PROCESSING

Kieffer Item #
Job #
-001
-002
-003
-004

c UL us LISTED

REVISION:

		INITIALS:	DATE:
A	Increase height of sign from 40' to 50'	MAK	2/3/15
B			
C			
D			
E			
F			
G			
H			
I			
J			

B66455C

D/F Interior Illuminated Pylon Sign

■ P-150

50'-0" O.A. HT.

2"
(50.8mm)

10'-11" (3327.4mm)

9'-A₈" (2751.1mm)

13'-3" (3962.4mm)

13'-8" (4165.6mm)

DOUBLETREE
BY HILTON

13'-3 7/16" (4049.7mm) RADIUS

ALL PRINTING IS DONE UTILIZING
3M 1500v2 SOLVENT INKS

ALUM. LOGO CENTERS

SKYHOLE DETAILS
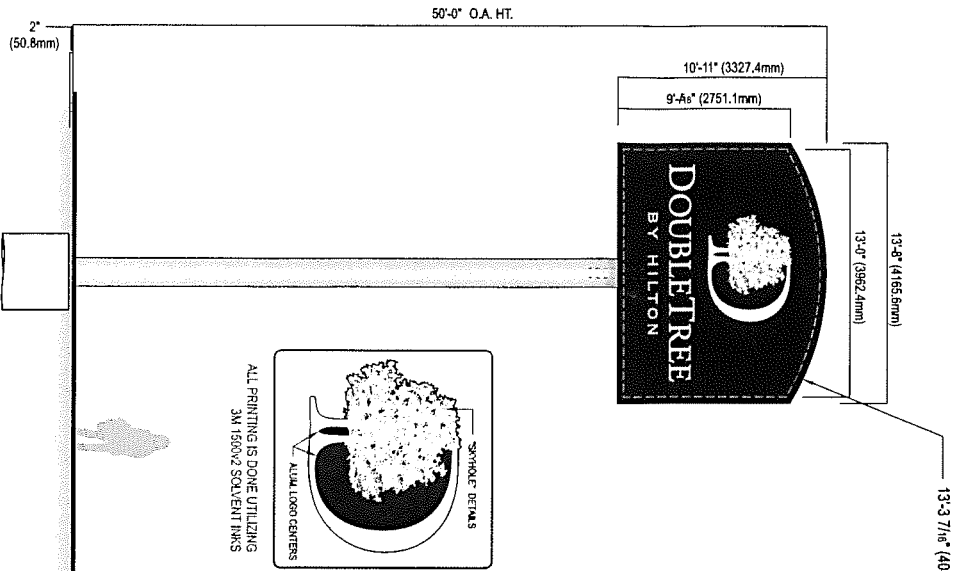
D/F PYLON SIGN (149.19 Sq. FEET - 13.86 Sq. M.)

1/8" = 1'-0"

ALUMINUM FABRICATED D/F CABINET
PAINTED TO MATCH PMS 469SC DK. BROWN.

3M PANAGRAPHICS III (OR APPROVED EQUIV.) FLEXIBLE BLEED FACES
PRINTED DT BROWN ON 1ST SURFACE AND OPAQUE BLACK ON 2ND
SURFACE (MIRRORING THE BROWN GRAPHIC) W/ 3M 3619 OVERLAMINENT /
COPY AND LOGO TO BE WHITE SHOWING THRU.

INTERNALLY ILLUMINATED W/ FRANCE RELIANT LIGHTING
SYSTEM T8 DAYLIGHT LAMPS.

ALUMINUM REVEALS PAINTED TO MATCH
PMS 583C GREEN.

6" x 6" x .375" (152.4mm x 152.4mm x 9.5mm) STEEL
SQ. TUBE SUPPORT INSIDE CABINET.
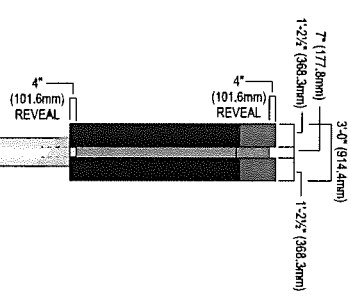
CUT EXISTING POLE AND REUSE (PENDING SURVEY)

STEEL SUPPORT PAINTED TO MATCH
PMS 9226C PASTEL OR RAL 1013 OYSTER WHITE.

* EXACT FOUNDATION TO BE DETERMINED PER LOCATION.

* 4'-0" (129.2mm) DIAM. x 11'-0" (3352.8mm) DEEP CONCRETE
PIER FOUNDATION.

ALL ILLUMINATED SIGNAGE REQUIRE THE CLIENT'S ELECTRICIAN
TO FURNISH & INSTALL A COMPLETE PHOTOCELL AND/OR TIME CLOCK
TO ALLOW SIGNS TO OPERATE AT DESIGNATED INTERVALS. HOWEVER,
SIGN SHALL NEVER OPERATE ON A 24/7 BASIS.

NOTE:
Sign will require engineered drawings prior to
fabrication, steel & foundation sizes may change.

END VIEW

7" (177.8mm)
1'-2½" (368.3mm)

4"
(101.6mm)
REVEAL

4"
(101.6mm)
REVEAL

3'-0" (914.4mm)

1'-2½" (368.3mm)

Austin, TX

D/F Interior Illuminated Pylon Sign

Artwork
Design
Survey
All items checked to Sales Order

COMPANION FILES

-001
-002
-003
-004

REVISION:

		INITIALS:	DATE:
A	Increase height from 40' to 50'	MAK	2/4/15
B			
C			
D			
E			
F			
G			
H			
I			
J			

B66455G

DOUBLETREE

Site Plan

Austin, TX

Business Park Dr.

Holiday Inn
(4 Stories)

Pool

Legends
Bar & Grill

Canopy

Engineering Analysis).

Hwy 1 Feeder Rd

Ramp to Hwy 1

Ramp to Hwy 1

183
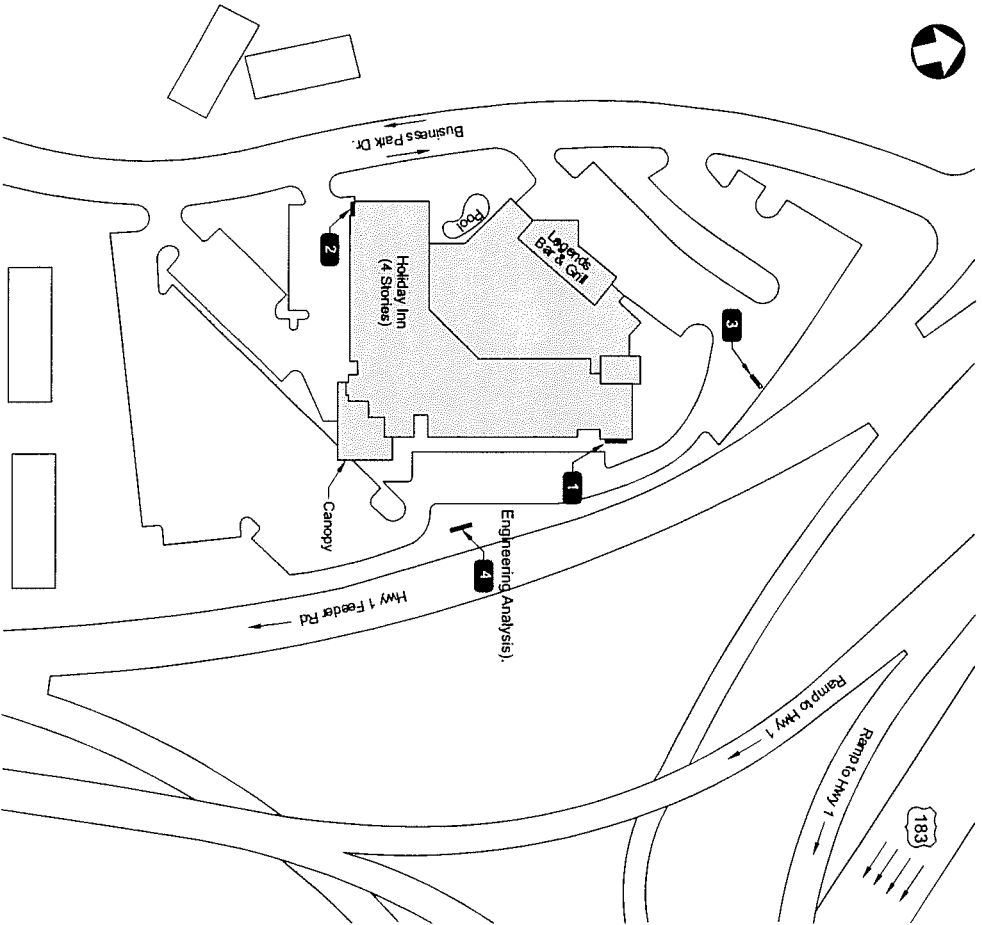
PROPOSED

1 Remove and Replace Existing with New DT Logo/Letters

2 Remove and Replace Existing with New DT Logo/Letters

3 Remove and Replace Existing pylon with New P-90T Pylon

4 Remove and Replace Existing Hi Rise Sign with New P-150 Hi Rise Sign (reuse pole)

PRODUCTION PROCESSING

Kieffer Item #

Job #   -001
             -002
             -003
             -004

REVISION:	INITIALS:	DATE:
A	.	.
B	.	.
C	.	.
D	.	.
E	.	.
F	.	.
G	.	.
H	.	.
I	.	.

B66455H

GENERAL NOTES

SCHEDULE B - TITLE EXCEPTION NOTES

POTENTIAL ENCROACHMENT NOTES

ZONING NOTES

FLOOD ZONE NOTE

LEGEND OF SYMBOLS & ABBREVIATIONS

VICINITY MAP
NOT TO SCALE

SITE

JOLLYVILLE RD

U.S. 183

TALLWOOD DRIVE

MOPAC EXPY.

LEGAL DESCRIPTION

ALTA/ACSM LAND TITLE SURVEY

Surveyor's Certification

N

JOLLYVILLE ROAD
PUBLIC R.O.W. WIDTH VARIES
CONCRETE SURFACE

MOPAC EXPRESSWAY
PUBLIC R.O.W. WIDTH VARIES

LOT 1
NORTH CROSSING SUBDIVISION, SEC. 3
VOL. 83, PG. 96
TRAVIS COUNTY, TEXAS

BUSINESS PARK DRIVE
CITY PUBLIC R.O.W.
ASPHALT SURFACE

ASPHALT

ASPHALT

ASPHALT

ASPHALT

S 86°20'45"W   369.53'
BASIS OF BEARINGS

POINT OF BEGINNING

S 53°20'56"E   20.78'

MKA
A National Land Services Group

For Inquiries Concerning This Survey Contact: MKA
National Coordinator of Land Survey Services

BG
BROCHARD GROUP of TEXAS INC.

13'-8" SIGN

TS 6" x 6" x 3/8"
ASTM A-500 Gr. B

DOUBLETREE
SUITES
BY HILTON

10'-11" SIGN

EXISTING POLE TOP PLATE
w/(8) ø7/8" MOUNTING STUDS

TS 6"x6"x3/8"

3/8"
3/8"

15"
9"
3"
3"

11"   15"

6 1/8" OPEN
w/R 3/4" CORNERS

ø1" (8) FOR ø7/8"
ASTM A-325 BOLTS

SIGN MOUNTING PLATE DETAIL
1/4" ASTM A-36 STEEL

49'-11" O. A. H.

EXISTING 39'-0"

EXISTING ø20" POLE

FOUNDATION DESIGN NOTES:
1. Existing footing and direct bury pole checked to determine
   that stresses on them from new sign are not more than
   what was previously there.
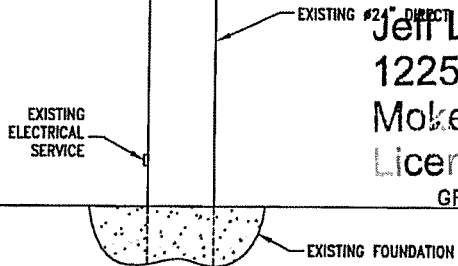2. All electrical to be according to the NEC and local code.

DESIGN WIND LOAD:
Based on the 2012 International Building Code (ASCE 7-10)
using Risk Category II, Exposure C and 115 mph wind speed.

TEXAS ENGINEERING FIRM LICENSE NO. F-12032

EXISTING 10'-6"

EXISTING ø24" DIRECT BURY POLE

EXISTING
ELECTRICAL
SERVICE

GRADE

EXISTING FOUNDATION

Jeff L. Griffin
12255 W. 187th St
Moken a, IL. 60448
License # 37578
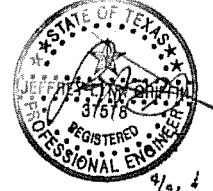
ELEVATION VIEW

49'-11" OAH PYLON USING EXISTING POLE
FOR 10'-11" x 13'-8" ID SIGN

1504030
SHEET 1 OF 1

SITE: Double Tree
8901 Business Park Drive
Austin, Texas 78759

REVISION		NAME	DATE
RELEASED FOR PERMITTING		J. HOGAN	08 Apr 15

File :   Kieffer1213a.mcd

Site :   Double Tree
      8901 Business Park Drive
      Austin, Texas 78759

Project :   Existing 39'-0" tall direct bury two stage single pole with a 11'-0" x 15'-8" Holiday Inn ID sign at 50'-0" OAH
      which will be removed for a 10'-11" x 13'-8" Double Tree ID sign at 49'-11" OAH with mounting plate to match
      existing pole top plate.
      Drawing No. 1504030 rev. A

Design wind load based on the 2012 International Building Code (ASCE 7-10) using Exposure C and 115 mph wind speed.

Design Wind Speed : (mph.) $V := 115.0$ Based on Risk Category II

Velocity Pressure Coefficient at a Height of Less Than 50', Exposure C : $Kz := 1.09$ Based on Table 29.3-1

Topographic Factor : $Kzt := 1.00$ Based on Table 26.8-1

Wind Directionality Factor : $Kd := 0.95$ Based on Table 26.6-1

Velocity Pressure : (PSF) $qz := 0.00256 \cdot Kz \cdot Kzt \cdot Kd \cdot V^2$ $qz = 35.058$ Based on 29.3-1

Force Coefficient : $Cf := 1.80$ Based on Figure 29.4-1

Gust Effect Factor : $G := 0.85$ Based on 26.9.4 for Other Structures

Load Combination Factor : $LCF := 0.60$ Based on 2.4.1, Case 7

Design Pressure : (PSF) $F := qz \cdot Cf \cdot G \cdot LCF$ $F = 32.183$ Use : $WL := 32.2$

Reference :   Manual of Steel Construction, AISC 13th Edition.

Tube :   ASTM A-500 Gr. B $Fy = 46.0$ ksi. ; $Fb = 30.36$ ksi. ; $Fv = 18.40$ ksi.

Plate :   ASTM A-36 $Fy = 36.0$ ksi. ; $Fb = 27.00$ ksi. ; $Fv = 14.40$ ksi.

Mounting Bolts :   ASTM A-325 $Fu = 133.0$ ksi. ; $Ft = 44.00$ ksi. ; $Fv = 21.00$ ksi.

Design Loads at Grade from Existing Holiday Inn ID Sign, Bottom Trim and Pole :

Upper Logo Sectio : $UprLogo := (2.0 \cdot 6.08 \cdot WL) \cdot \left[\left(\frac{2.0}{2} \right) + 48.0 \right]$ $UprLogo = 19186.048$ ft.lbs.

Lower ID Sign : $ExstIDSgn := (9.0 \cdot 15.67 \cdot WL) \cdot \left[\left(\frac{9.0}{2} \right) + 39.0 \right]$ $ExstIDSgn = 197540.721$ ft.lbs.
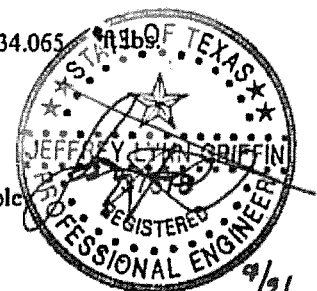
Bottom Trim : $BtmTrm := (0.88 \cdot 10.0 \cdot WL) \cdot \left[\left(\frac{0.88}{2} \right) + 38.12 \right]$ $BtmTrm = 10926.362$ ft.lbs.

Exposed Upper Pole : $UprPole := \left[27.62 \cdot \left(\frac{20}{12} \right) \cdot WL \right] \left[\left(\frac{27.62}{2} \right) + 10.5 \right]$ $UprPole = 36034.065$ ft.lbs.

Lower Pole : $LwrPole := \left[10.5 \cdot \left(\frac{24}{12} \right) \cdot WL \right] \cdot \left(\frac{10.5}{2} \right)$ $LwrPole = 3550.05$ ft.lbs.

Moment : (ft.lbs.) $ExstMtGrd := UprLogo + ExstIDSgn + BtmTrm + UprPole + LwrPole$

                 $ExstMtGrd = 267237.245$

F-1203L

Shear: (lbs.)

$$\text{ExstShrGrd} := (2.0 \cdot 6.08 \cdot \text{WL}) + (9.0 \cdot 15.67 \cdot \text{WL}) + (0.88 \cdot 10.0 \cdot \text{WL}) + \left[27.62 \cdot \left(\frac{20}{12}\right) \cdot \text{WL}\right] + \left[10.5 \cdot \left(\frac{24}{12}\right) \cdot \text{WL}\right]$$

$\text{ExstShrGrd} = 7374.551$

Design Loads at Grade from Proposed ID Sign and Pole :

Double Tree ID Sign : $\text{DTIDSgn} := (10.92 \cdot 13.67 \cdot \text{WL}) \cdot \left[\left(\frac{10.92}{2}\right) + 39.0\right]$ $\text{DTIDSgn} = 213705.886$ ft.lbs.

Exposed Upper Pole : $\text{UprPole} := \left[28.5 \cdot \left(\frac{20}{12}\right) \cdot \text{WL}\right] \cdot \left[\left(\frac{28.5}{2}\right) + 10.5\right]$ $\text{UprPole} = 37855.125$ ft.lbs.

Lower Pole : $\text{LwrPole} := \left[10.5 \cdot \left(\frac{24}{12}\right) \cdot \text{WL}\right] \cdot \left(\frac{10.5}{2}\right)$ $\text{LwrPole} = 3550.05$ ft.lbs.

Moment : (ft.lbs.) $\text{PropsdMtGrd} := \text{DTIDSgn} + \text{UprPole} + \text{LwrPole}$ $\text{PropsdMtGrd} = 255111.061$

Shear : (lbs.) $\text{PropsdShrGrd} := (10.92 \cdot 13.67 \cdot \text{WL}) + \left[28.5 \cdot \left(\frac{20}{12}\right) \cdot \text{WL}\right] + \left[10.5 \cdot \left(\frac{24}{12}\right) \cdot \text{WL}\right]$

             $\text{PropsdShrGrd} = 7012.4$

Check of Existing Footing and Pole :

Unity Check - Moment : $\text{UCMt} := \dfrac{\text{PropsdMtGrd}}{\text{ExstMtGrd}}$ $\text{UCMt} = 0.955$ $\le$ 1.00   OK

Unity Check - Shear : $\text{UCShr} := \dfrac{\text{PropsdShrGrd}}{\text{ExstShrGrd}}$ $\text{UCShr} = 0.951$ $\le$ 1.00   OK

Design Loads at EL. 39.0' :   (Match plate connection between new ID sign and sign pole.)

Shear : (lbs.) $\text{ShrEL39}_0 := (10.92 \cdot 13.67 \cdot \text{WL})$ $\text{ShrEL39}_0 = 4806.7$

Moment : (ft.lbs.) $\text{MtEL39}_0 := \text{ShrEL39}_0 \cdot \left(\frac{10.92}{2}\right)$ $\text{MtEL39}_0 = 26244.582$

Design of Pole Structure at EL. 39.0' :   (Inside new ID sign.)

Section Modulus of Tube : (in.^{3})   TS 6" x 6" x 3/8" wall - $\text{TubeSM} := 13.2$

Bending Stress : (psi.) $f_b := \dfrac{\text{MtEL39}_0 \cdot 12}{\text{TubeSM}}$ $f_b = 23858.711$

Area of Tube : (in.^{2})   TS 6" x 6" x 3/8" wall - $\text{TubeArea} := 7.58$

Shear Stress : (psi.) $f_v := \dfrac{\text{ShrEL39}_0}{\text{TubeArea}}$ $f_v = 634.129$

Unity Check - Sign Pole : $\mathrm{UCSgnPole} := \dfrac{f_b}{30360} + \dfrac{f_v}{18400}$ $\mathrm{UCSgnPole} = 0.82$ <   1.00   OK

Check of Existing Mounting Studs at EL. 39.0' :

Note : Allowables reduced to ASTM A-36 due to the tack welding of bolts on the underside of pole top plate.

Mounting Bolt Diameter: (in.) $\mathrm{MntBltDia} := 0.875$

Stress Area : (in.^{2}) $\mathrm{MntBltArea} := \dfrac{\pi \cdot \mathrm{MntBltDia}^2}{4}$ $\mathrm{MntBltArea} = 0.601$
(Based on nominal diameter per AISC 4-3)

Allowable Tension : (lbs.) $\mathrm{AllwTen} := 19140 \cdot \mathrm{MntBltArea}$ $\mathrm{AllwTen} = 11509$

Allowable Shear : (lbs.) $\mathrm{AllwShr} := 9900 \cdot \mathrm{MntBltArea}$ $\mathrm{AllwShr} = 5953$

Number of Mounting Bolts in Tension : $\mathrm{NoTen} := 4$

Front to Back Distance Between Mounting Bolts : (in.) $\mathrm{LvrArm} := 11.0$

Tension Load per Mounting Bolt : (lbs.) $\mathrm{TenMntBlt} := \dfrac{\mathrm{MtEL39}_0 \cdot 12}{\mathrm{NoTen} \cdot \mathrm{LvrArm}}$ $\mathrm{TenMntBlt} = 7157.61$

Number of Mounting Bolts in Shear : $\mathrm{NoShr} := 8$

Shear Load per Mounting Bolt : (lbs.) $\mathrm{ShrMntBlt} := \dfrac{\mathrm{ShrEL39}_0}{\mathrm{NoShr}}$ $\mathrm{ShrMntBlt} = 600.84$

Unity Check : $\mathrm{UCMntStd} := \dfrac{\mathrm{TenMntBlt}}{\mathrm{AllwTen}} + \dfrac{\mathrm{ShrMntBlt}}{\mathrm{AllwShr}}$ $\mathrm{UCMntStd} = 0.723$ <   1.00   OK
Mounting Studs

Design of Sign Mounting Plate at EL. 39.0' :

Plate Thickness : (in.) $\mathrm{PltThk} := 1.25$ Plate Width : (in.) $\mathrm{PltWdth} := 15.0$

Side to Side Distance Between Outer Mounting Bolts : (in.) $\mathrm{BltSprd} := 9.0$

Transfer Distance : (in.) $\mathrm{PLS} := \dfrac{\sqrt{\left(\mathrm{LvrArm}^2 + \mathrm{BltSprd}^2\right)} - \sqrt{\left(6.0^2 + 6.0^2\right)}}{2}$ $\mathrm{PLS} = 2.864$

Minimum Thickness Required : (in.) $\mathrm{ReqdThk} := \sqrt{\left[\dfrac{\mathrm{TenMntBlt} \cdot \mathrm{NoTen} \cdot \mathrm{PLS} \cdot 6}{(\mathrm{PltWdth} \cdot 27000)}\right]}$ $\mathrm{ReqdThk} = 1.102$

Unity Check : $\mathrm{UCSgnPltThk} := \dfrac{\mathrm{ReqdThk}}{\mathrm{PltThk}}$ $\mathrm{UCSgnPltThk} = 0.882$ <   1.00   OK
Sign Mounting Plate Thickness

Use :   1-1/4" thick x 15" x 15" plate with eight (8) 1" diameter holes on 3" + 3" + 3" x 11" bolt pattern.