



City of Chicago



Or2017-566

Office of the City Clerk

Document Tracking Sheet

Meeting Date:	11/8/2017
Sponsor(s):	Curtis (18)
Type:	Order
Title:	Issuance of permits for sign(s)/signboard(s) at 7601 S Cicero Ave - 834 sq. ft.
Committee(s) Assignment:	Committee on Zoning, Landmarks and Building Standards

10/10/10

10/10/10

CITY COUNCIL
COMMITTEE ON ZONING, LANDMARKS AND BUILDING STANDARDS

COUNCIL ORDER

RE: Approval of sign over 100 square feet in area or over 24 feet above grade

ORDERED, that the City Council hereby approves the following sign application submitted by:

Applicant*: Ford city mall - Frank Leon
(* The Applicant is the owner of the real property or the business tenant of the real property. Do not list the sign contractor, sign erector, sign company or advertising entity in the above space.)

This Order approves the following sign in accordance with Municipal Code of Chicago Section 13-20-680:

Address of Sign: 7601 S. Cicero 60652 Chicago, IL 606

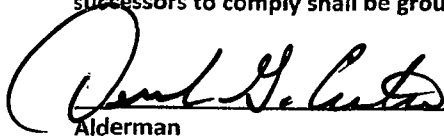
Zoning District: _____

DOB Sign Permit Application #: _____

Sign Details:

1. On-premise OR Off-premise _____
2. Static sign _____ OR Dynamic-image display sign
3. Number of sign faces 2
4. Projecting over the public way N (Yes or No) If yes, Public Way Use #: _____
5. Dimensions: Length 35 feet 6 inches Height 23 feet 6 inches
Total square feet in area: 834 feet _____ inches *see attached*
6. Height above grade: 8 feet _____ inches
7. Elevation (side of building or lot where the sign will be erected): Corner of 76th & Cicero
8. Name of Sign Contractor/Erector: All Right Sign inc

To be legal, such sign shall comply with all provisions of Title 17 of the Chicago Municipal Code ("Zoning Ordinance") and all other provisions of the Municipal Code governing the permitting, construction and maintenance and removal of signs and sign structures. Failure of the applicant and the applicant's successors to comply shall be grounds for invalidation or revocation of the sign permit.


Alderman

18th
Ward

NOTE: FIELD VERIFICATION SURVEY REQUIRED TO DETERMINE EXISTING CONDITIONS, MATERIALS, ETC. BEFORE PERMITTING, MANUFACTURE AND INSTALLATION OF NEW ITEMS.

This document is the property of Quantum Sign Corporation. It is to be used only for the project and location specified herein. It is not to be reproduced or distributed to any other party without the written approval of Quantum Sign Corporation.

LEFT SIDE OF SIGN INCLUDING "AMC THEATRES" AREA AND REVEAL IS 25'-8" W. X 17'-0" H. (436.33 SQUARE FEET)

RIGHT SIDE OF SIGN INCLUDING "FORD CITY" AREA, DIGITAL DISPLAY AND REVEAL IS 9'-10" W. X 24'-6" H. (240.92 SQUARE FEET)



NORTH ELEVATION - WITH PROPOSED REMODEL
N.T.S.

SIGN A - OPTION A
677.25 SQUARE FEET TOTAL
QTY. ONE (1) REMODEL OF EXISTING DOUBLE-FACED MONUMENT SIGN
AT INTERSECTION OF 76TH STREET AND CICERO AVENUE

NORTH ELEVATION - AS IS
N.T.S.

Customer: Mid-America Asset Management, Inc. Job Name: Ford City Mall Address: 76th S. Cicero Avenue City: Chicago	Scale: As Noted File Name: Ford City Mall - Chicago Monument PERM1 A.cdr Salesperson: Tom Campana	State: IL 60652	City: Chicago
693 Heartland Drive - Sugar Grove, IL 60654 630.466.0372 P 630.466.0544 F www.quantumsigncorp.com	Rev. Date: 7-25-2017 Rev. Date: 3-31-2017 Rev. Date: 3-27-2017 Orig. Date: 12-8-2016	Drawn By: TV	Page 1 of 2

FOR ALL MATERIALS, SPECIFICATIONS, AND METHODS OF CONSTRUCTION, REFER TO THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND DRAWINGS. MATERIALS, ETC. BEFORE FABRICATION, MANUFACTURE AND INSTALLATION OF ANY ITEMS.

The contractor shall be responsible for obtaining all necessary permits, licenses, and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits, licenses, and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits, licenses, and approvals from the appropriate authorities.

LEFT SIDE OF SIGN INCLUDING "FORD CITY" AREA AND REVEAL IS 9'-10" W. X 24'-6" H. (240.82 SQUARE FEET)

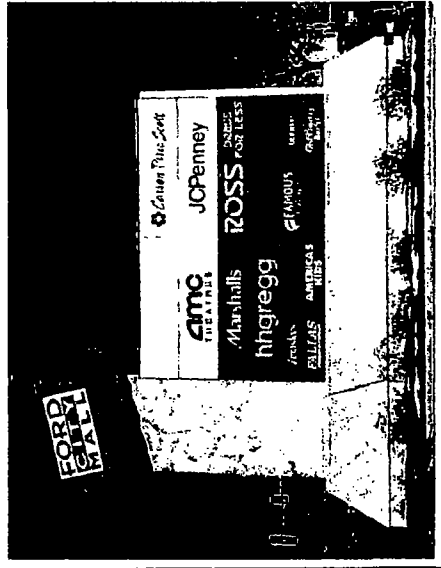
"FORD CITY MALL" SECTION: NEW SINGLE-FACED INTERNALLY ILLUMINATED CABINET WITH RETAINERLESS FLEXIBLE FACE DECORATED WITH VINYL GRAPHICS PAINTED TO MATCH MATTHEWS 41342 SP BRUSHED ALUMINUM

NEW .090 ALUMINUM DECORATIVE PANELS PAINTED TO MATCH SHERWIN WILLIAMS SW 7032 WARM STONE TO COVER EXISTING YELLOW COLUMN AREAS OF SIGN.

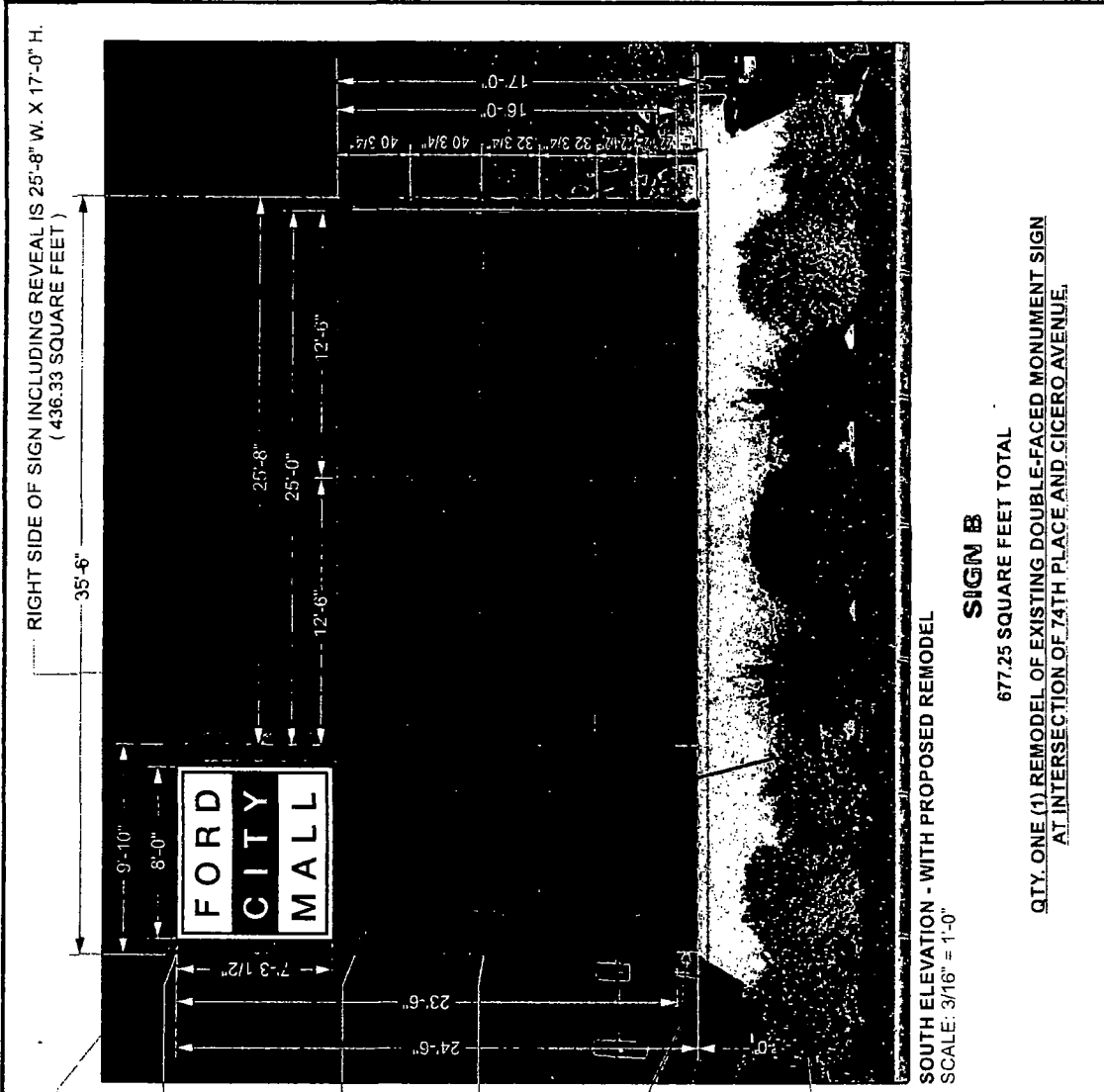
MULTI-TENANT SECTION: NEW MULTI-TENANT SECTION OF SIGN WITH ROUTED-OUT ALUMINUM / WHITE POLYCARBONATE BACK-UP PANELS PAINTED TO MATCH SHERWIN WILLIAMS SW 7032 WARM STONE.

APPROX. 1'-0" HT REVEAL PAINTED TO MATCH SHERWIN WILLIAMS SW 7034 STATUS BRONZE.

NEW ALUMINUM SIGN BASE TO MATCH SHERWIN WILLIAMS SW 7030 ANEW GRAY.



SOUTH ELEVATION - AS IS
N.T.S.



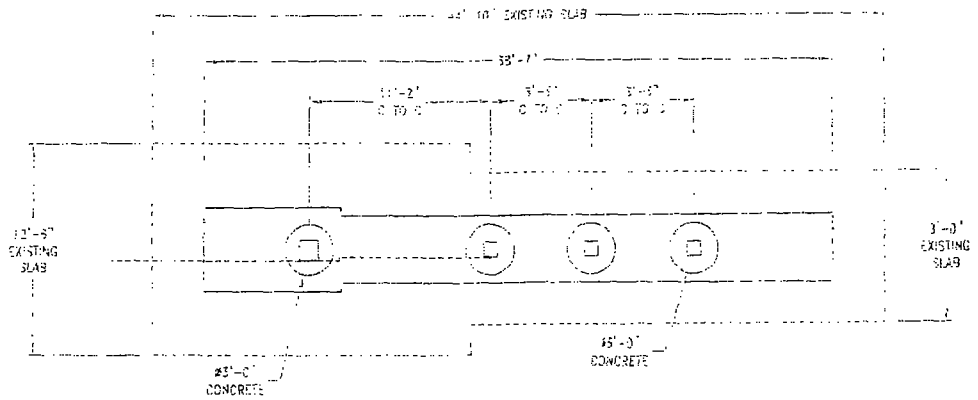
SOUTH ELEVATION - WITH PROPOSED REMODEL
SCALE: 3/16" = 1'-0"

SIGN B

677.25 SQUARE FEET TOTAL

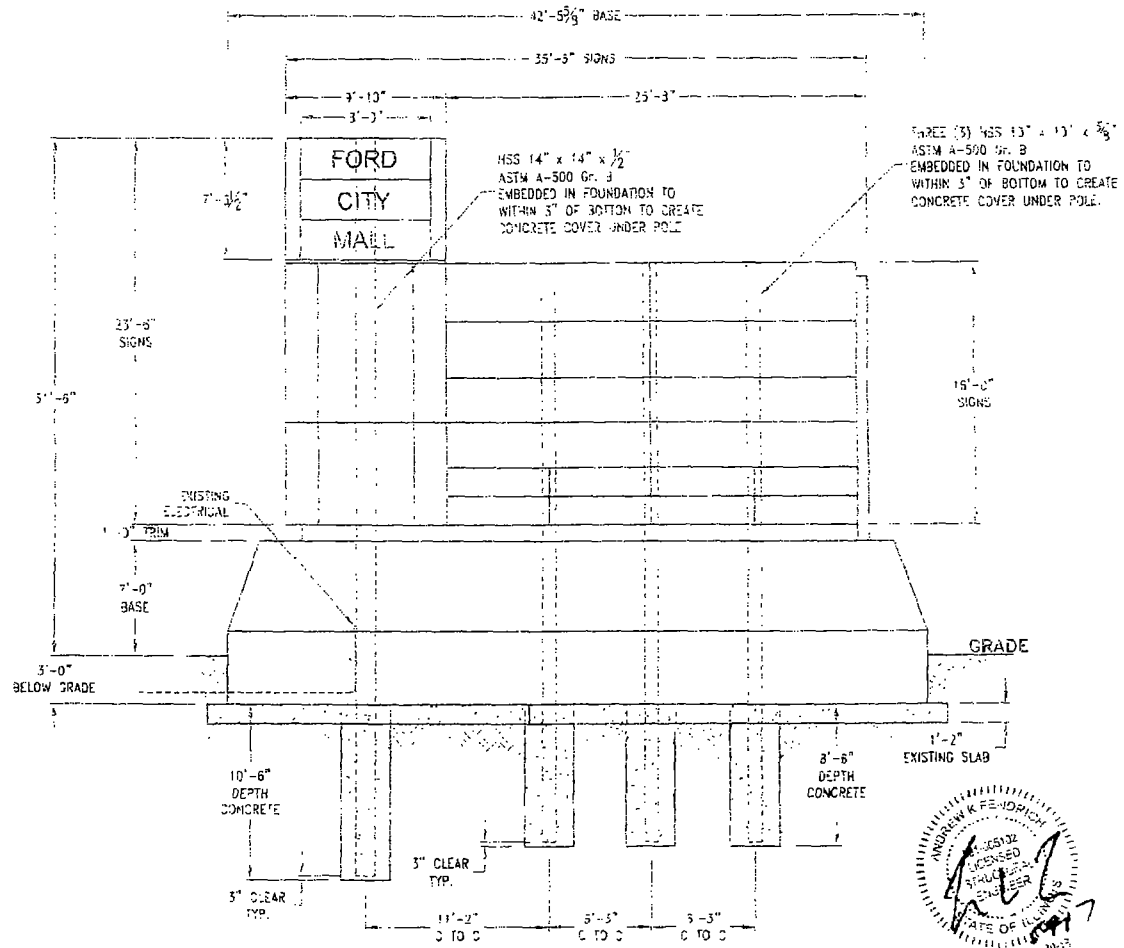
QTY. ONE (1) REMODEL OF EXISTING DOUBLE-FACED MONUMENT SIGN AT INTERSECTION OF 74TH PLACE AND CICERO AVENUE.

<p>Customer: Mid-America Asset Management, Inc Job Name: Ford City Mall Address: 7601 S. Cicero Avenue City: Chicago</p>	<p>Scale: As Noted File Name: Ford City Mall - Chicago Monument PERM11 A.cdr Salesperson: Tom Campano</p>	<p>Rev. Date: 7-25-2017 Rev. Date: 3-31-2017 Rev. Date: 3-27-2017 Orig. Date: 12-8-2016</p>	<p>693 Heartland Drive - Sugar Grove, IL 60554 630 466 0372 P 630 466 0544 F www.quantumsigncorp.com</p>
		<p>Drawn By: TV</p>	<p>Page 2 of 2</p>



PLAN VIEW
QTY. CONCRETE: 2.5 CU. YDS.

PLAN VIEW
QTY. CONCRETE: 2.9 CU. YDS. EACH



ELEVATION VIEW



SITE:
Ford City Mall
7601 South Cicero Avenue
Chicago, Illinois 60652

- FOUNDATION NOTES**
1. Concrete shall have a minimum compressive strength of 3,000 PSI at 28 days.
 2. Caisson footing designed using a soil bearing force of 250 PSF per foot lateral.

DESIGN WIND LOAD: 30.0 PSF
Based on the Chicago Building Code 16 (13-52-310) (f) 1a for solid signs.

REV. A	08 May 17	RELEASED FOR PERMITTING	J. HOGAN
REV.	DATE	DESCRIPTION	APPROVED
Robert-James & Associates, Inc.			
12255 West 187th Street, Mokena Illinois 60448-9737 phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net			
TITLE FOUR 31'-6" OAH DIRECT BURY POLES FOR REPLACEMENT ID & TENANT SIGNS			
DRAWN BY	J. GREENAN	DATE	08 May 17
CHECKED BY	J. HOGAN	DATE	08 May 17
TITLE	DRAWING NUMBER		SHEET
NONE	1705040		1 OF 1
REV.			A

12255 West 187th Street
Mokena, Illinois 60448
(708) 479-8385

File: QuarterSign&Fb012a.mcd

Site: Ford City Mall
7501 South Cicero Avenue
Chicago, Illinois 60652

Project: Design of direct bury pole structures and caisson footings for replacement signage and base trim. Caisson footings will be set placed in cored holes thru existing 1'-2" thick slab footing where top of slab is 3'-0" below grade. This will be done for both the South and North elevation sign pylons.
Drawing No. 1705040 rev. A

Design Wind Load: (PSF) $WL := 30.0$ Based on the Chicago Building Code 16 (13-52-310) (f) 1a

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

Tube: ASTM A-500 Gr. B $F_y = 46.0 \text{ ksi}$, $F_b = 30.36 \text{ ksi}$, $F_v = 18.40 \text{ ksi}$

Reference: American Concrete Institute, Code 318.10

Rebar: ASTM A-515 Grade 50 $F_y = 60.0 \text{ ksi}$

Concrete: 3,000 psi compressive strength at 28 days.

Design Loads at Top of Footing for the 16'-0" x 25'-0" Sign Section (3'-0" Below Grade)

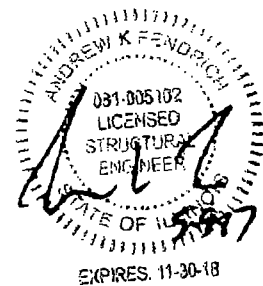
$$\text{Signage SgnTrm} := (17.0 \cdot 25.67 \cdot WL) \cdot \left[\left(\frac{17.0}{2} \right) + 10.0 \right] \quad \text{SgnTrm} = 242196.45 \quad \text{ft.lbs.}$$

(Including 1'-0" of base trim and 8" of side trim)

$$\text{Base: Base} := (7.0 \cdot 28.42 \cdot WL) \cdot \left[\left(\frac{7.0}{2} \right) + 3.0 \right] \quad \text{Base} = 38793.3 \quad \text{ft.lbs.}$$

$$\text{Moment (ft.lbs.) MtTOF} := \text{SgnTrm} + \text{Base} \quad \text{MtTOF} = 280989.75$$

$$\text{Shear: (lbs.) ShrTOF} := (17.0 \cdot 25.67 \cdot WL) + (7.0 \cdot 28.42 \cdot WL) \quad \text{ShrTOF} = 19059.9$$



Design of Pole Structures at Top of Footing for the 16'-0" x 25'-0" Sign Section

Section Modulus of Tube: (in.^3) HSS 10" x 10" x 3/8" wall - $\text{TubeSM} := 40.4$

$$\text{Moment per Pole: (ft.lbs.) MtPoleTOF} := \frac{\text{MtTOF}}{3} \quad \text{MtPoleTOF} = 93663.25$$

$$\text{Bending Stress: (psi.) } f_b := \frac{\text{MtPoleTOF} \cdot 12}{\text{TubeSM}} \quad f_b = 27820.757$$

Area of Tube: (in.^2) HSS 10" x 10" x 3/8" wall - $\text{TubeArea} := 13.2$

$$\text{Shear per Pole: (lbs.) ShrPoleTOF} := \frac{\text{ShrTOF}}{3} \quad \text{ShrPoleTOF} = 6353.3$$

$$\text{Shear Stress: (psi.) } f_v := \frac{\text{ShrPoleTOF}}{\text{TubeArea}} \quad f_v = 481.311$$

Unity Check - Poles $UCPoles := \frac{E_p}{30350} + \frac{E_v}{13400}$ $UCPoles = 0.943 < 1.00$ OK

Design of Caisson Footings

Overturning Moment : (ft.lbs) $Ma := MfPoleTOF$ $Ma = 93663.25$

Shear (lbs.) $Va := ShrPoleTOF$ $Va = 6353.3$

Applied Lateral Force : (lbs.) $P := Va$ $P = 6353.3$

Allowable Lateral Soil Pressure : (lbs./ft² per ft) $LP := 250$

Diameter of Round Footing : (ft.) $b1 := 3.0$

Distance in Feet From Ground Surface to Point of Application of "P" $h := \frac{Ma}{Va}$ $h = 14.742$

Depth of Footing Below the Top of the Existing Slab : (ft) $d1 := 8.5$
(3'-0" below grade.)

Allowable Lateral Soil Bearing Pressure Pursuant to the 2012 International Building Code Section 1807.3 2.2 and Table 1806.2. $S3 := d1 \cdot LP$ $S3 = 2125$

Required Depth : (ft.) $d2 := \sqrt{4.25 \cdot \left(\frac{P \cdot h}{S3 \cdot b1} \right)}$ $d2 = 7.902 \leq d1 = 8.5$ OK

Check Tensile Stress in Footing :

Overturning Moment About Heel Point : (ft.lbs.) $Mh := Ma + (Va \cdot d1)$ $Mh = 147665.3$
Treat as a cantilever at bottom.

Compressive Strength of Concrete : (psi.) $fc := 3000$

Yield Strength of Rebar : (psi.) $fy := 60000$

Section Modulus of Footing : (in.³) $Sw := \frac{\pi \cdot (b1 \cdot 12)^3}{32}$ $Sw = 4580.442$

Allowable Concrete Stress : (psi) $\phi Ft := 0.65 \cdot (5 \cdot \sqrt{fc})$ $\phi Ft = 178.01$

Tensile Stress in Concrete : (psi.) $\hat{\sigma} := \left[\frac{(Mh \cdot 12)}{Sw} \right]$ $\hat{\sigma} = 386.861 > \phi Ft = 178.01$
REBAR REQUIRED FOR STRESS

Design of Reinforcing Steel in Caisson .

Moment for USD Design : $Mu := 1.7 \cdot Mh$ $Mu = 251032.71$

$d := [(b1 \cdot 12) \cdot .80] - \left[\frac{(b1 \cdot 12) - 10.0}{2} \right]$ $d = 15.8$

To Plot for "ju" $coeff := \frac{Mu \cdot 12}{fc \cdot b1 \cdot 12 \cdot d^2}$ $coeff = 0.112$ $ju := 0.88$

Use yield strength of direct bury tube to check:

Yield Strength of Tube (psi) $f_y := 46000$

Required Area (in²) $A_s := \frac{M_{fr} \cdot 12}{f_u \cdot f_y \cdot 0.90}$ $A_s = 5.233$

Reinforcement Requirement $A_s = 5.233 < \text{TubeArea} = 13.2$

No rebar required with the direct bury tube

Quantity of Concrete (yds.³) $CY = \left(\frac{\pi \cdot b^2 \cdot dl}{4 \cdot 27} \right) - \left[\frac{0.83^2 \cdot (dl - 0.25)}{27} \right]$ $CY = 2.015$ Each

Note Keep bottom of tube 3" from bottom of footing to create concrete cover for water exclusion.

Design Loads at Top of Footing for the 23'-6" x 9'-10" Section (3'-0" Below Grade)

Signage (Including 1'-0" of base trim) $SgnTrm := (24.5 \cdot 9.33 \cdot WL) \left[\left(\frac{24.5}{2} \right) + 10.0 \right]$ $SgnTrm = 150757.363$ ft.lbs.

Base $Base := (7.0 \cdot 11.42 \cdot WL) \left[\left(\frac{7.0}{2} \right) + 3.0 \right]$ $Base = 15538.3$ ft.lbs.

Moment (ft.lbs.) $M_{frTOF} := SgnTrm + Base$ $M_{frTOF} = 176345.663$

Shear (lbs.) $ShrTOF := (24.5 \cdot 9.33 \cdot WL) + (7.0 \cdot 11.42 \cdot WL)$ $ShrTOF = 9523.25$

Design of Pole Structures at Top of Footing for the 23'-6" x 9'-10" Section

Section Modulus of Tube (in³) HSS 14" x 14" x 3/8" wall - $\text{TubeSM} := 82.5$

Bending Stress (psi) $f_b := \frac{M_{frTOF} \cdot 12}{\text{TubeSM}}$ $f_b = 25650.278$

Area of Tube (in²) HSS 14" x 14" x 3/8" wall - $\text{TubeArea} = 18.7$

Shear Stress (psi) $f_v := \frac{ShrTOF}{\text{TubeArea}}$ $f_v = 514.512$

Unity Check - Poles $UCPoles := \frac{f_b}{30360} + \frac{f_v}{13400}$ $UCPoles = 0.873 < 1.00$ OK

Design of Caisson Footing

Overtipping Moment (ft.lbs.) $M_a := M_{frTOF}$ $M_a = 176345.663$

Shear (lbs.) $V_a := ShrTOF$ $V_a = 9623.25$

Applied Lateral Force (lbs.) $P := V_a$ $P = 9623.25$

Allowable Lateral Soil Pressure (lbs./ft.² per ft.) $LP := 250$

Diameter of Round Footing (ft.)

b1 := 3.0

Distance in Feet From Ground Surface
to Point of Application of "P"

h := $\frac{M_a}{V_a}$

h = 18.323

Depth of Footing Below the Top of the Existing Slab (ft.)
(3'-0" below grade)

d1 := 10.5

Allowable Lateral Soil Bearing Pressure Pursuant
to the 2012 International Building Code Section
1307.3.2.2 and Table 1305.2

S3 := d1 · LP

S3 = 2625

Required Depth (ft.)

d2 := $\sqrt{4.25 \cdot \left(\frac{P \cdot h}{S3 \cdot b1} \right)}$

d2 = 9.756 ≤ d1 = 10.5 OK

Check Tensile Stress in Footing:Overturning Moment About Heel Point (ft lbs.)
Treat as a cantilever at bottom.

Mh := Ma + (Va · d1)

Mh = 277389.787

Compressive Strength of Concrete (psi)

fc := 3000

Yield Strength of Rebar (psi)

fy := 50000

Section Modulus of Footing (in³)

Sw := $\frac{\pi \cdot (b1 \cdot 12)^3}{12}$

Sw = 4580.442

Allowable Concrete Stress (psi)

φFc := 0.65 · (5 · √fc)

φFc = 178.01

Tensile Stress in Concrete (psi)

ft := $\left[\frac{(Mh \cdot 12)}{Sw} \right]$

ft = 725.715 > φFc = 178.01

REBAR REQUIRED FOR STRESS

Design of Reinforcing Steel in Caisson:

Moment for USD Design

Mu := 1.7 · Mh

Mu = 471562.639

d := $\left[(b1 \cdot 12) \cdot 0.80 \right] - \left[\frac{(b1 \cdot 12) - 14.0}{2} \right]$

d = 17.3

To Plot for "ju"

coeff := $\frac{Mu \cdot 12}{fc \cdot b1 \cdot 12 \cdot d^2}$ coeff = 0.165

ju := 0.65

Use yield strength of direct bury tube to check

Yield Strength of Tube (psi)

fy := 46000

Required Area (in²)

As := $\frac{Mu \cdot 12}{ju \cdot fy \cdot d \cdot 0.90}$

As = 11.814

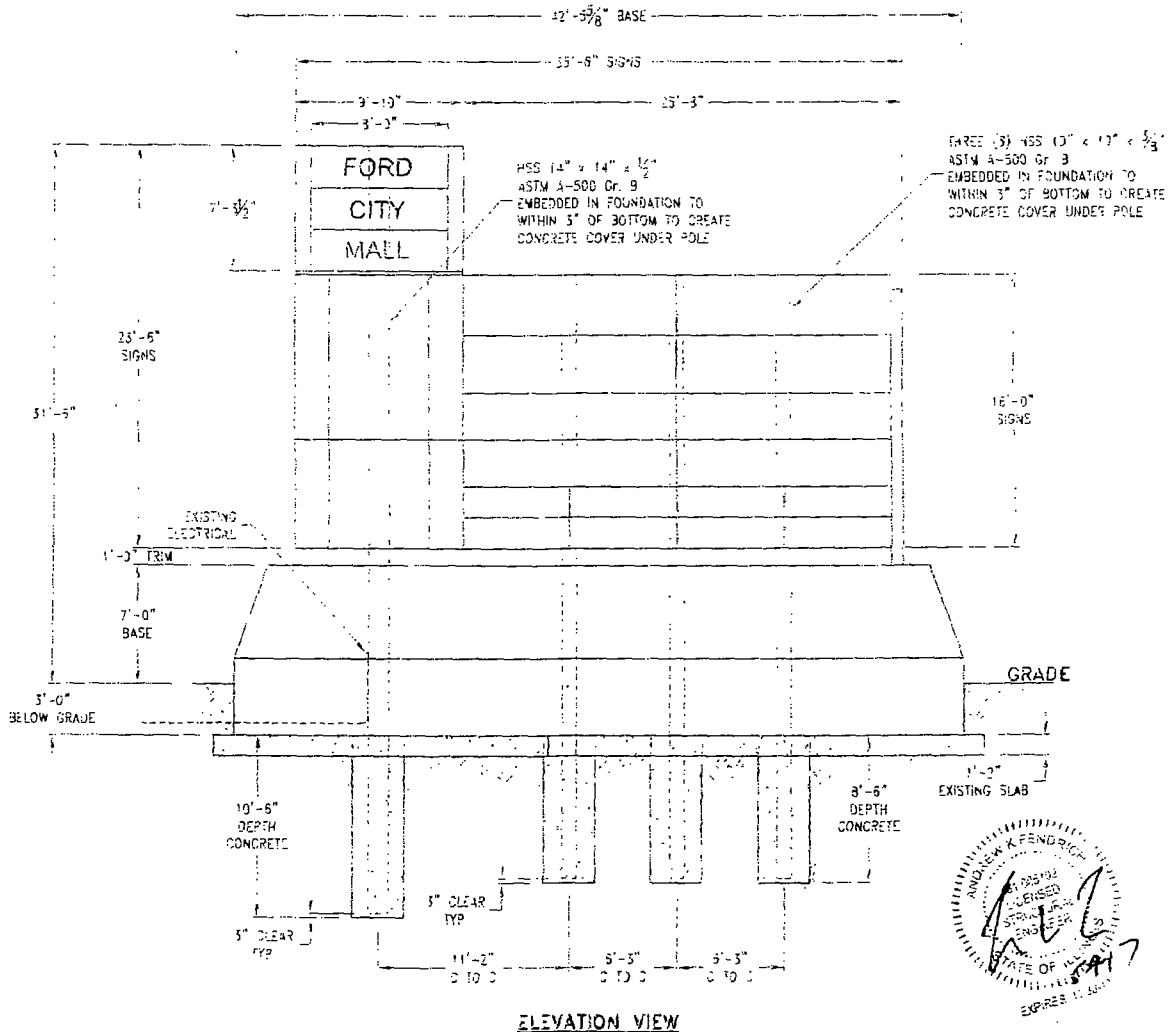
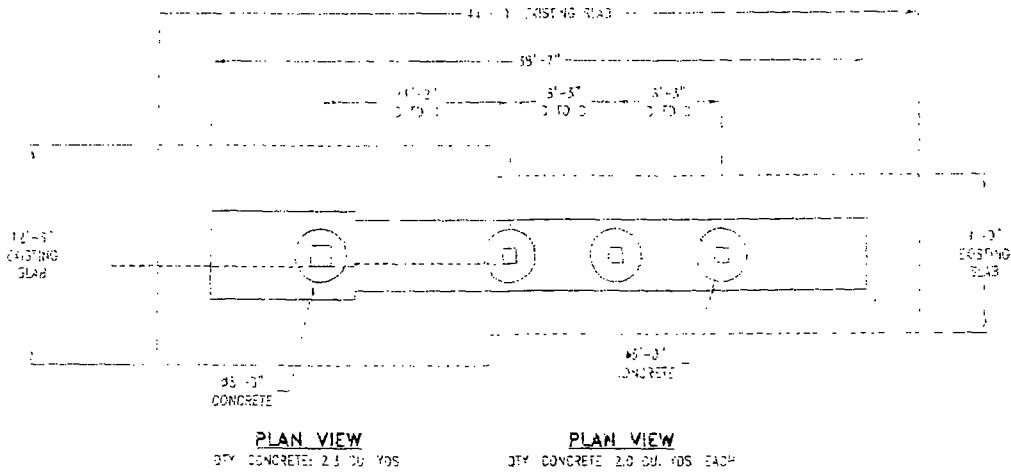
Reinforcement Requirement

As = 11.814 < TubeArea = 18.7

No rebar required with the direct bury tube

$$\text{Quantity of Concrete (cfs)} \quad \text{CY} = \left(\frac{\pi \cdot 61^2 \cdot 41}{4 \cdot 27} \right) - \left[\frac{\pi \cdot 17^2 \cdot 41 \cdot 2.25}{27} \right] \quad \text{CY} = 2,229$$

Note. Keep bottom of tube 3" from bottom of footing to create concrete cover for water exclusion



FOUNDATION NOTES:

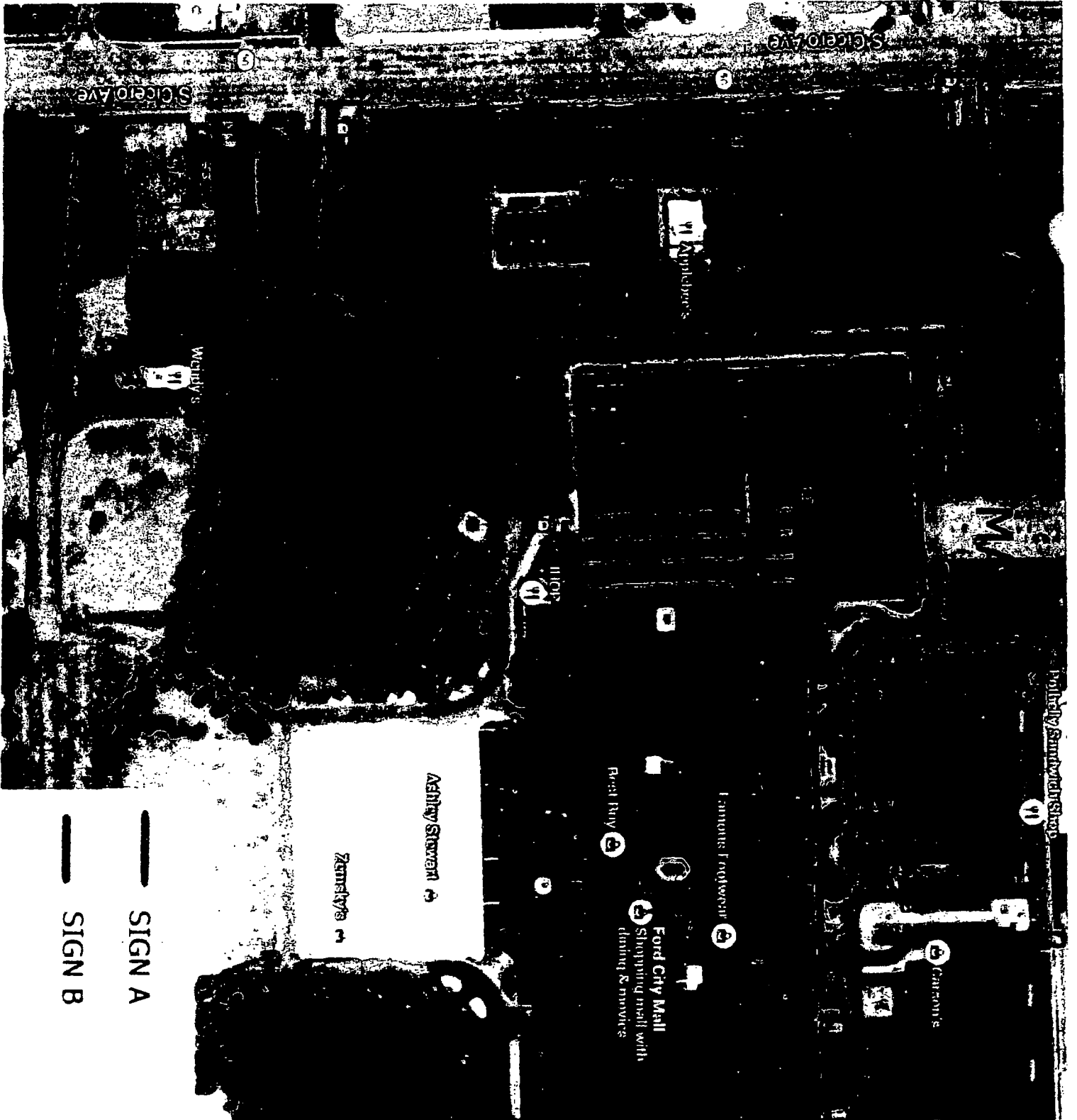
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Based on the Chicago Building Code 16 (13-52-310) (f) 1a for solid signs.

SITE:
Ford City Mall
7501 South Cicero Avenue
Chicago, Illinois 60652

A	08 May 17	RELEASED FOR PERMITTING	J HOGAN
REV	DATE	DESCRIPTION	APPROVED
Robert-James & Associates, Inc.			
12255 West 187th Street, Mokena Illinois 60448-9737 phone: 708-479-8385 fax 708-479-8395 email: rja37@comcast.net			
FOUR 31'-6" OAH DIRECT BURY POLES FOR REPLACEMENT ID & TENANT SIGNS			
DRAWN BY	J. GREENAN	DATE	08 May 17
CHECKED BY	J HOGAN	DATE	08 May 17
SCALE	NONE		DRAWING NUMBER
		1705040	
SHEET	1 OF 1		REV
		A	



Polk's/Sandwich Shop

Carson's

Famous Footwear

Ford City Mall
Shopping mall with
dining & movies

Real Buy

Ashley Stewart

Zemsky's

Wentz's

S Cicero Ave

S Cicero Ave

— SIGN A

— SIGN B