



Office of the City Clerk

City Hall
121 N. LaSalle St.
Room 107
Chicago, IL 60602
www.chicityclerk.com

Legislation Text

File #: Or2017-566, Version: 1

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*: frnrri D'fu Mali - PraAJ£ ucon

(* 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: 1LqO\ S, CICCqQ (jg 0 (#5^ 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
4. Projecting over the public way N (Yes or No) If yes. Public Way Use #:
5. Dimensions: Length feet G? inches Height 93 feet Cg? inches
Total square feet in area:(9t^~/ feet inches ^"gj? C\j\j\c\X2^C?_ci
6. Height above grade: feet inches

successors to comply shall be grouv V_ TMderman

Corner of itf^

7. *Elevation (side of building or lot where the sign will be erected):* *tA&CXG*

8. Name of Sign Contractor/Erector: ftli Igx^hf Sign mc

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.

Ward

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■ "UN VIEW

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«-5?j" MX-
35'-5"

- V-ID* -J-J'.

FORD

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MA11.L

- 25 -3' -

HSS 14" « <4" » /2 .\ST» A-500 Gr. j -E«D0E» IH fOOWWTKW '0 WIM» S* Or »TOH TO CKA^
:oic.?rri cora -Ma pslt

'sijE :5) SB !1" - 'V <y
AS:S» !jr. 3

'5-0'

:E?!(rAL

-'-0'
3ASE | 1
.5-0' BELOW GRADE

10-6" BETH "JIOE'i

3'-S" DEPTH CONCBE7E

! -2 EXISTING 5LA9

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c.T3 : •LEVATIOin VIEW

rejNOAnw moits

1. Concrete snai nave a minimum comoressive

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: 50.0 PSF

Based on the Chicago Building Code 16 (13-52-310) (f) to for sc-fid s'gns.
j Ford City vial!

■ 750! Sr>uth Cicsro Avsnus

aJm tot tr

j Chicago, Illinois 50552

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EZY) JkL

Robert-James & Associates, Inc.

12255 Wesl 187th Street, Mokena Illinois 60448-9737 phone: 708-479-8335 (ox. 708-479-8395 email: rja379comcosl.net

SHEET) OF !

FOUR 31'-6" OAH DIRECT BURY POLES FOR REPLACEMENT ID & TENANT SIGNS

rrS« | DRAWING NUMBER

1705040

5-05-17

ROBERT-JAMES & ASSOCIATES, hu-

Sht. !

i 2255 VVijMS7th Srrsei >joki-ra, Mnci3 6044* [7
05) 479-8.335

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Site Ford dry Mail

"5DJ Souiii Cn5fv Avenue Chicago, ukiois o0652

Project Design of direct bury pole structures and caisson footings for replacement signage an 3 base tnm. caisson footings will bs sec placed in cored holes thro existing 1'-2" thick slab footing where top of slab is 3'-0" below grade This will bs dons fo.- both the South and North elevation sign pylons Drawing No. ! 705040 rev. A

Design Wind Load : (PSF } WL := 30.0 Based on the Chicago Building Cods 16 (13-52-3 i 0) (t> 1 a

Xs&rancee Manual of Steel Construction. Ai3C J 3th Edition.

Tubs. ASTM A-500 Gr 3 Fy =46 0 tel., ?b =30.56 !si . Fv = 18.40 ksi

Reference: Amen can Concrete institute, Cods 318.10 Rebar • ASTM A-515 Grade 50 Fy

=50 0 tel. Concrete ' 3,000 psi. compressive strength a: li days.

Design LoaJs hi Too of!ootin2 for the 1o'-0" s

signage

l 2

j f 17.0^

SgnTrm := ((T0-25.S7-WL)-J { r-r }
+ 3.0 Base = 38793.3 ft.lbs. X 2 J J

(laciudinj l'-O" of ?>ase trm and 3" of side *r;fi> } Base: Base:= (7 0-28 42-WL) ''

Moment (ft.lbs.) MtTOF := SgnTrm +■ Base MtTOF = 280989.75

Shear : (lbs.) ShrTOF := (17 0-25.67-WL) + (7.0-28.42-WL) ShrTOF = 19059.9

"3JHH"

::(PIRES. 11-30-18

Design, of Pole Siruciures at Tod of Footina for ihe 16'-D" k 25'-0" Sign. Sectio.cu Section Modulus of Tube :

(m>) HSS 10" x 10" s 3/3" wall - TubeSM := 40.4

MtTOF

Moment per Pole : (ft.lbs.) MtPoleTOF .- - MtPoleTOF = 93663 25

-> . . ~ MtPoleTOF-12
Bending Stress : (os*.) fj. ■= TubeSM % = 27820.767

Area of Tube : (in.²) HSS ! 0" x; 10" k 3/8" wail - TubeArea := 13.2 Shear per Pole :(lbs.)

ShrPoleTOF := ^12^ ShrPoleTOF = 6353 3

Shear Stress (psi.) f;-_
«OBERT-IMES & ASSOCIATES, hit

•JCPoiss = 0 943

Design of Ca isson Footings Overtiming Moment • (tubs) Shear (lbs.)

Applied Lateral Force : f lbs.)

Allowable Lateral Soil Pressure : f lbs./ft^l per ft)

Diameter of Round Footing : (ft.)

Distance in Feet from Ground Surface to Point or Aoolication of

Depth of Footing Below the Top of the Existing Slab : (ft) { y-0* below grade.)

Ma = 93663 25 Va= 6353.3 ? = S353.3 LP := 250

bl := 3.0

a = 14.742

ill := 3.5

Allowable Lateral Sou 'aearing Pressure Pursuant to the 2012 International Building Cods Sec-don 1307J 2.2 and Table 1306 2.

Required Depth : (ft.)

Check Tensile Stress ia Footing :

OverturningMoment About Heel Point: (ft.lbs.) Mh Ma + (Va dl) Treat as a cantilever at bottom.
7t (bt-12)"

Compressive Strength of Concrete : (psi.) Yield Strength of Rsbar : (psi.)
0.S5-(5-Vfc)

Section Modulus of Footing: (in.³) Sw :=
(Mh-12)
I Sw

Allowable Concrete Stress . (psi) \$Ft :=

Tensile Stress in Concrete ■(psi.) ft
I (b! 1.2) - 10.0 j

Design of Reinforcing -Steel in Caisson .

Moment for USD Design : Mn := 1.7 -Mh
coeff = 0.112
coeff := ■

To Plot for "ju" d := [(bl-12)- .80) - i Mu-12

Mh= ! 47565.3

fc := 3000 fy -= 60000

Sw = 45S0.442

\$Ft = 178.01

ft = 386 861 > ij>Ft= 178.01 RESAR REQUIRED FOR STRESS

Mu = 251032.71 d = 15.8

ju := 0.38

fc-bl-12d

JROBERT-JAMIS & ASSOCIATES, Inc.

Jw i'-1-M 0; aiiec-. bury ■■j'^b -o c^i-:.\:

Yield Strength of Tube • (pst.)
iu-fy d-0.90

Reinforcement Requirmem

■ > 1

0.83"-(di - 0.25)

As = 5 233 < TubeArea = 13.2 Mo rsbar required with the direct bury tube

CY = 2 0! 'i Each

Quantity of Concrete . yds.³ "1 CY: f 7i-bl²-dil
V 4-27 J

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

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

>.gaa3» • Sgnfxrn - (24.5 5 -13-tt'L) \\ -- i +• 10 0; Sjn'lrm = 150757 363 t...os.
 (Including V-O"of base ir-irn) IA 2 / j
 Base = 15538.3 ft.lbs.

Base • Base r~ H.Q-11 42-WL)-j 1 - ! +30
 "7 ? .rA
 ' Uj

Moment: (ftlbs.) MtTOF := SgnTrm + Bass MtTOF = 175345 553

Shear - (lbs.) ShrTOF := (24.5-9 33-WL) + O 0-1 • 42-WL) ShrTOF = 9523.25

Design of Pole Structures at Top of Footing to r the _3'-6" x 9'-i 0" Sec-ion Section Modulus of Tube . (in.3) HSS 14" x 14" x 3/8" wall
 - TubeSM := &2 5

Bending Stress . (psi.) $f_b = \frac{M \cdot TO^{-12}}{TubeSM}$ fi = 25650.278

Area of Tube • (m²) HSS 14" x 14" x 3/8" wail - TubeArea := 13.7

Shear stress . (psi) -. $f_y = 5] 4 .512$
 TubeArea

Unity Checlr. - Poles UCPolss := -- - - ^- UCPoiss = 0 373 < 1 -00 OK
 30360 13400

Design of Caisson Footing

Overturing Moment ■ (ft lbs.)	Ma := MtTOF	Ma = 175345.663
Shear (lbs.)	Va := ShrTOF	Va = 9623 25
Applied Lateral Force ■ (lbs.)	P := Va	P = 9623.25
Allowable Lateral Soil Pressure . (lbs /ft. ² per ft.)		LP := 250

RDBKR I-.IWU' n & AS.SOCIAL KS, Inc.

Diameter or Rjund Footing. (ft. }

Distance \n Feet From Ground Su.-race :o Point of Application of "p"

1



^53-bty

Depth of Footing Below Top of Existing Slab (ft.) (3'-0" below grade)
d := 4.25

Allowable Soil Bearing Pressure Pursuant to the 2012 International Building Code Section 1307.3.2.2 and Table 1335.2

Required Depth (ft)
Concrete Tensile Stress in footing

b := 30 in = 13.32 ft

j := 0.5 S3 = 2625

d_i = 10.5 OK

Overturing Moment About Heel Point (ft lbs.) Treat as a cantilever at bottom.

Compressive Strength of Concrete (psi) Yield Strength of Rebar (psi)

Section Modulus of Footing (in³) Allowable Concrete Stress (psi) Tensile Stress in Concrete (psi)

Design of Reinforcing Steel in Caisson :

Moment for USD Design M_u := 1.7 M_h
coeff :=

$$d := [(b-12) - .80j] M_u - 12$$

To Plot for " iu "

f_{cbi} 12 d²

Use yield strength of direct bury tube to check

$$M_h = 277389.737$$

$$\phi := 3000 \text{ fy } = 60000$$

$$S_v = 4580.442$$

$$\phi F_f c = 173.01$$

f_t = 726.715 > i_j) F_i --- 1.73 01 REBAR REQUIRED FOR STRESS

$$M_u - 471562.639 \text{ d} = 17.3$$

$$j_u := 0.65$$

Yield Strength of Tube (psi) Required Area (in.²)

Reinforcement Requirement

Mu-12
As = ju fy-d-0 90

As = 11.814 < TubeArea = 18.7 No rebar required with the direct bury tube

fy := 46000 As = ! 1.314

5-05-17

ROBERT-JAMES & ASSOCIATES, Inc,

Slit, 5 of 5

i'iais . Kssp bo'co;^ 3i";jbs j" rom bottom of cbolsng 'o -j.^'.i oog;::?;3 ~o--'5r for water exclusion

5'r

3i -r ■
CONCRETE

PUS VIEW

PLAH VIEW

■-5--5"

-■j'-.r -i-y -

aSTM J-5CB Cr. 9 " "EHIBESOED IM rOMMTQf TO whin 5' or m-on to :-REir: S3W«ER C9VE1' JSBH -5LE
«W 4-3S0 Or 3
" EH3EDQED is EIUNCATIOi' 0
<mm ;-r soman to concrete coves uhdei pole

:x;t'mc-...t^;..!!"

3LOW
EXISTING 3>8

s' -o"

a'-s"
DEPTH CONCRETE

r

ILIVATIOfi VIEW

FOUNDATION NOTES: 1. Concrete shall have
force of
strength of 3,000 PSI ai 23 days. 2 Caisson looting designed using a soil bearing 250 PS'
PSF per foot Lateral.

DESIGN WIND IOAO: 30.0 PSF
Based in the Chicago Huidirg Code IS (13-52-3:0) V. to for soli

SITE:
Ford City Mai! j 7501 SDjfh Cicero A/snue I Ohicago, Illinois 50552

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Robert-James & Associates, Inc. j

12255 West 187th Street, Mokena Illinois 60U8-9737 i p'hone: 708-179-8385 tax 708-479-83S5 email: rju37*comcast.net

FOUR 31'-6" OAH DIRECT 8URY POLES f FOR REPLACEMENT ID & TENANT SIGNS j

CB Uov 17 2011 DRAWING NUMBER! SHEET | REV |
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