

NATOMAS MARKETPLACE

BY RWM DATE 5/98
 CHKD. BY DATE

SUBJECT PEDESTRIAN DIRECTIONALS
 TRUXELL RD @ HWY I 80

SHEET NO. 1 OF 1
 JOB NO. 98-143B
 ELLIS & ELLIS
 P.O. # 7940

DESIGN CRITERIA

CODE - 1994 UBC
 WIND - 75 M.P.H. EXP. C

WIND ON SIGN

$$P = C_e C_g q_z I = (1.06)(1.4)(14.5)1 = 21.5 \text{ P.S.F.}$$

$$\textcircled{A} (6.5 \times 1.25/2) 21.5^{3/4} = 87 \times 11.83 = 1029$$

$$\textcircled{B} (4' \times 1.5) 6 < 21.5 = 258 \times 9.07 = 2340$$

$$\textcircled{C} (4.5/12 \times 8) 21.5 = 65 \times 7.0 = 455$$

$$\textcircled{D} (1.0 \times 3) 21.5 = 63 \times 1.5 = 98$$

$$\Sigma P = 475 \# \quad \Sigma M = 3922$$

FOOTING EMBEDMENT NON-CONSTRAINED
 H.P. CALCULATOR PROGRAM 03C360

$$D_2 = \left(\frac{7.02P}{2WB_0} \right) \left[1 + \left(1 + \frac{0.621WB_0H}{P} \right)^{1/2} \right]^{1/2} \text{ UBC 1806.7.2.1}$$

TRY 2'-0" ϕ CONC PIER = D

$$H = \frac{3922}{475} = 8.26'; \quad P = 475 \#$$

$$W = 150(2)(1.33) = 400 \text{ P.S.F. / FT}^2 \text{ ALLOW.}$$

$$D = 3.76'$$

USE 2'-0" ϕ x 3'-9" CONC PIER
 NO REINF. REQD $f'_c = 2000 \text{ PSI}$

* ALTERNATE: 2'-0" x 2'-0" x 3'-4" CONC. PIER

BASE WIND COLUMN

TRY 4" ϕ PIPE O.D. = 4 1/2"

$$f_b = \frac{3922 \times 12}{3.211^3} = 14,662 \text{ PSI}$$

$$F_b = .6(36000)1.33 = 28,728 \text{ PSI}$$

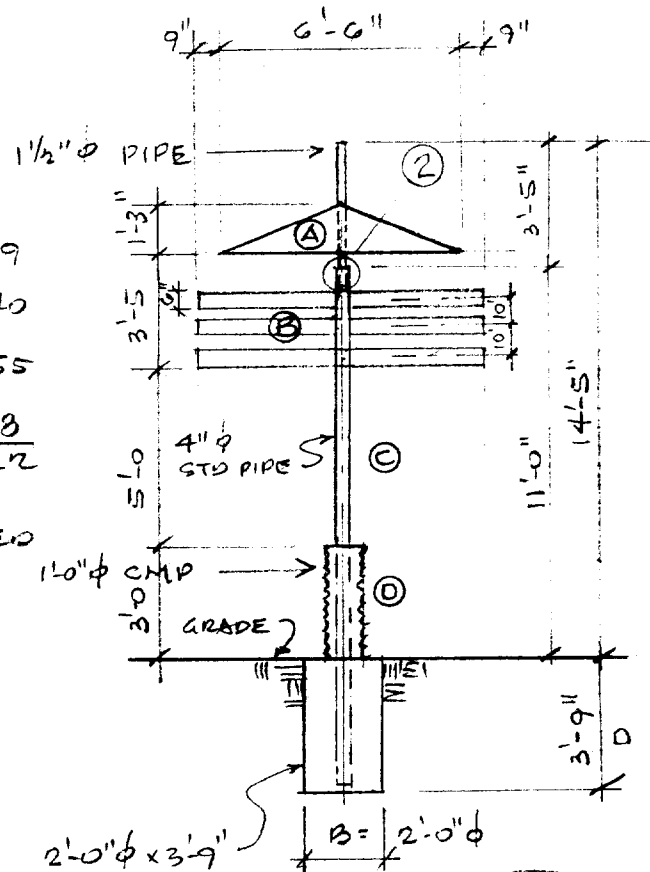
USE 4" ϕ STD. PIPE ASTM A53 Gr B
 $t = .237$ WT. = 10.79 #/1'

COLUMN TRANSITION @ 11'-0" ABV. GR.

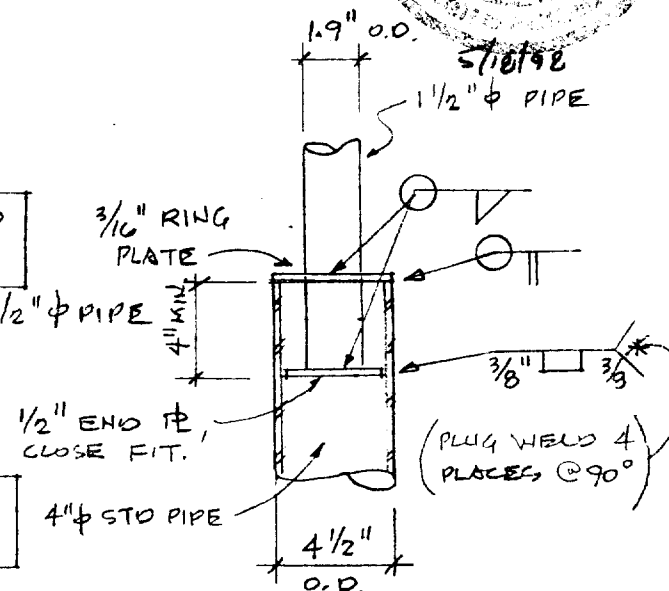
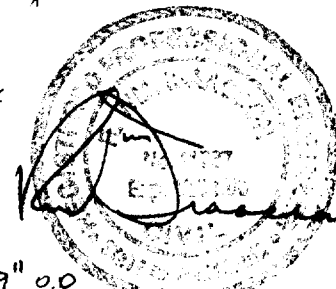
$$M_u = 87 \times 83' = 72 \#$$

$$f_b = \frac{72 \times 12}{.326^3} = 2658 \text{ PSI}$$

USE 1 1/2" ϕ STD. PIPE ASTM A53 Gr B
 $t = .145$ WT. = 2.72 #/1'



2'-0" ϕ x 3'-9" NON-REINF CONC. PIER
 OR 2'-0" x 2'-0" x 3'-4" *



DETAIL (2)

08-I

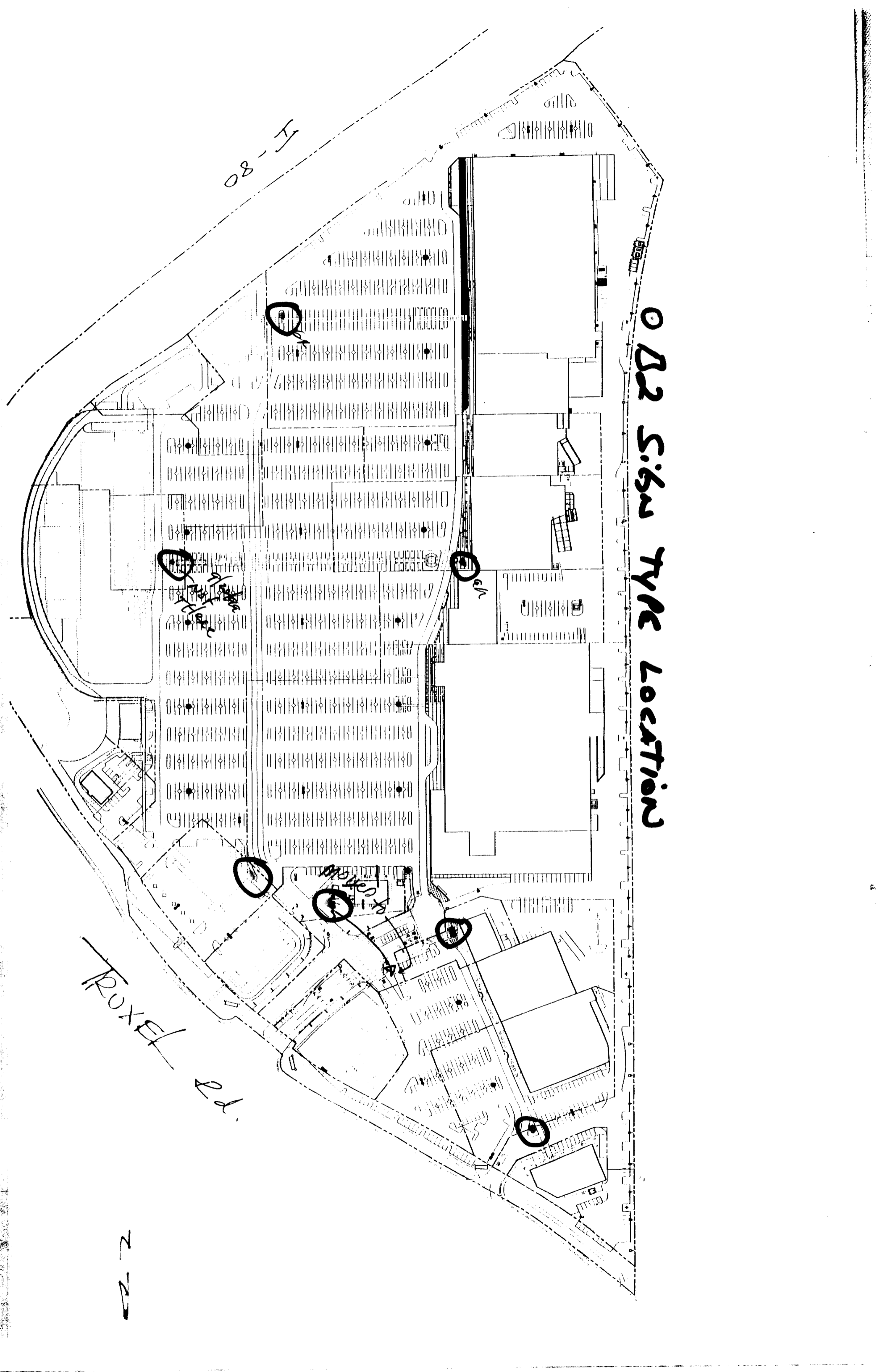
082 Sign Type Location

Handwritten notes in the middle-left section of the plan.

Handwritten notes in the bottom-middle section of the plan.

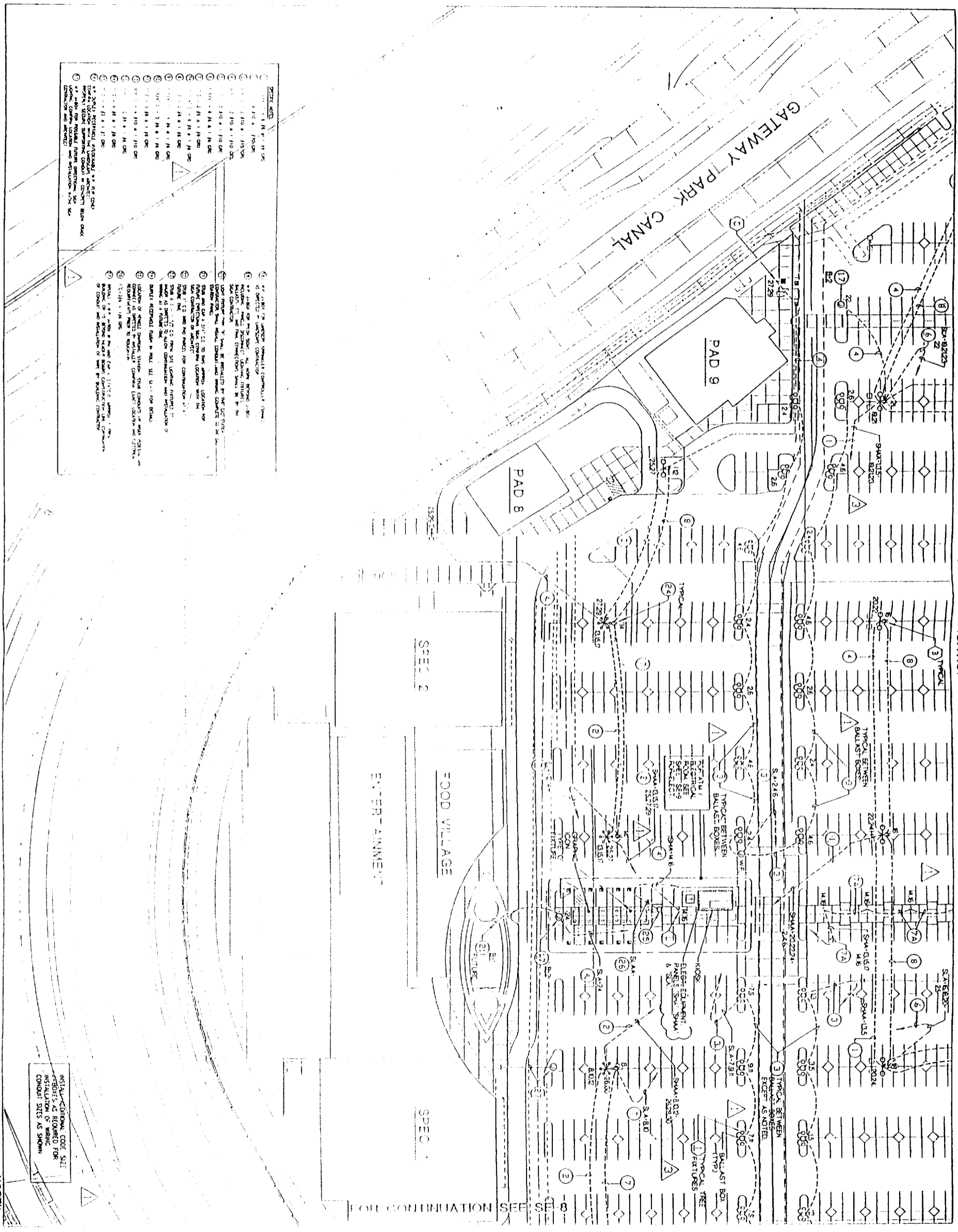
ROXEL Rd.

2-2



FOR CONTINUATION SEE SE-4 & SE-5

- PROJECT NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA 72).
 2. ALL WIRING SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA 72).
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FOR CONTINUATION SEE SE-8

INSTALL - CONDUIT, CONDUIT SIZE, AND WIRING SHALL BE AS SHOWN FOR INSTALLATION OF WIRING. CONDUIT SIZES AS SHOWN.

SCALE 1" = 30'-0"



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PROJECT: *Sign Type*
 DRAWN BY: *Diastoval*
 PROJECT NUMBER: *02*

DATE: *08-21*
 SCALE: *AS SHOWN*
 SHEET: *SE-7*
 OF SHEETS: *9*

