

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING DEPARTMENT

Please Read Application And Notes, If Any, Attached

Permit Number: 041397

## PERMIT DENIED

This is to certify that Maine Turnpike Authority

has permission to 4x6 freestanding sign

AT 420 Riverside St

320 A003001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and work on permit must be completed before this building or part thereof is occupied or closed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

### OTHER REQUIRED APPROVALS

Fire Dept. \_\_\_\_\_

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

DepartmentName

Director, Building & Inspection Services

### PENALTY FOR REMOVING THIS CARD

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 04-1397	Issue Date:	CBL: 320 A003001
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Location of Construction: 420 Riverside St	Owner Name: Maine Turnpike Authority	Owner Address:	Phone:
Business Name:	Contractor Name:		Phone:
Lessee/Buyer's Name	Phone:		

PERMIT  
DENIED

Past Use: commercial	Proposed Use: commercial 4x6 freestanding sign	Permit Fee: \$78.00	Cost of Work: \$78.00	CEO District: 5
Proposed Project Description: 4x6 freestanding sign		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type:	
		Signature:	Signature:	
		Signature:	Date:	

Permit Taken By: dmartin	Date Applied For: 09/20/2004	<b>Zoning Approval</b>
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<p>1.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p><b>Special Zone or Reviews</b></p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: <i>Denial</i></p>	<p><b>Zoning Appeal</b></p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p><b>Historic Preservation</b></p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Cg</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
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**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

Zoning Division  
Marge Schmuckal  
Zoning Administrator

Department of Planning & Development  
Lee Urban, Director



## CITY OF PORTLAND

October 5, 2004

Scott Lachance  
MTA  
430 Riverside Street  
Portland, ME **04103**

**RE:** 430 Riverside Street – **320-A-003** – I-M Zone

Dear Scott,

This letter is to follow-up our conversation of today. This permit is being denied because it does not meet the requirements of the City of Portland Zoning Ordinance.

This property is located in an I-M Industrial Zone. Section 14-369.5(b) – Table 2.12 which only permits **one** single freestanding sign per lot. Currently there is a freestanding sign on this property. This proposal would make this a second sign on this lot.

It is also understood that this proposed sign is actually for a building on a different lot from which it will be placed. Off premise signs are not permitted in the City of Portland. Signage is considered to be accessory to principal uses (14-404). Signage is only permitted on the lot for which the principal use is located, not on off premise locations.

Very truly yours,

A handwritten signature in black ink that reads "Marge Schmuckal".

Marge Schmuckal  
Zoning Administrator

# Signage/Awning Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Total Square Footage of Proposed Structure <b>24' SAH</b>		Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <b>320</b> Block# <b>A</b> Lot# <b>3</b>		Owner: <b>MAINE TURNPIKE AUTHORITY</b>	Telephone: <b>871-7771</b>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <b>SCOTT LACHANCE</b> <b>MTA</b> <b>430 RIVERSIDE ST</b> <b>PORTLAND, ME 04103</b>		Total s.f. of signage x \$2.00 per s.f. plus \$30.00/\$65.00 for H.D. signage = Total Fee: \$ <u><b>78.00</b></u> Awning Fee = Cost Of Work \$ _____ Total Fee: \$ <u><b>78.00</b></u>
Current use: <u><b>OFFICE</b></u>			
If the location is currently vacant, what was prior use: <u>      </u>			
Approximately how long has it been vacant: <u>      </u>			
Proposed use: <u><b>OFFICE W/ FREESTANDING SIGN</b></u>			
Project description: <u><b>SIGN TO DIRECT PATRONS TO MTA RETAIL STORE @ 430 RIVERSIDE</b></u>			
Contractor's name, address & telephone:			
Whom should we contact when the permit is ready: <u><b>SCOTT LACHANCE 871-7771 x370</b></u>			
Mailing address:			
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A STOP WORK ORDER will be issued and a \$100.00 fee if any work starts before the permit is picked up.     PHONE:			

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT. WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

*I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.*

Signature of applicant: 	Date: <u><b>8/24/04</b></u>
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**This is NOT a permit, you may not commence ANY work until the permit is issued.**

# SIGNAGE/AWNING PRE-APPLICATION QUESTIONNAIRE

PLEASE COMPLETE ALL INFORMATION

ADDRESS: 430 RIVERSIDE ST ZONE: IM

CBL: 320-A-3

SINGLE TENANT LOT? YES  NO  MULTI TENANT LOT? YES  NO

MORE THAN ONE SIGN TOTAL WITH PROPOSED SIGN? YES  NO

## TENANT/ALLOCATED BUILDING SPACE FRONTAGE (FEET):

Length: \_\_\_\_\_ Height: \_\_\_\_\_

### INFORMATION ON PROPOSED SIGN(S):

FREESTANDING (e.g., pole) SIGN? YES  NO  DIMENSIONS PROPOSED: 4' x 6'

BLDG. WALL SIGN? (attached to bldg) YES  NO  DIMENSIONS PROPOSED: \_\_\_\_\_

### INFORMATION ON ALREADY EXISTING AND PERMITTED SIGN(S):

FREESTANDING (e.g., pole) SIGN? YES  NO  DIMENSIONS: 4' x 8'

BLDG. WALL SIGN (attached to bldg) ? YES  NO  DIMENSIONS: \_\_\_\_\_

AWNING? YES  NO  DIMENSIONS: \_\_\_\_\_

LOT FRONTAGE (FEET): 303' +/-

AWNING YES  NO  IS AWNING BACKLIT? YES  NO

HEIGHT OF AWNING: \_\_\_\_\_ LENGTH OF AWNING: \_\_\_\_\_ DEPTH: \_\_\_\_\_

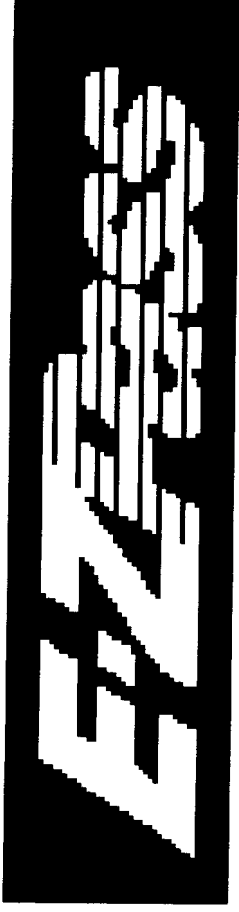
IS THERE ANY COMMUNICATION, MESSAGE, TRADEMARK OR SYMBOL ON IT? YES  NO

IF YES, TOTAL S.F. OF PANELS WITH COMMUNICATIONS/MESSAGE/TRADEMARK/SYMBOL? \_\_\_\_\_ s.f.

**A SITE SKETCH AND BUILDING SKETCH SHOWING EXACTLY WHERE EXISTING AND NEW SIGNAGE IS LOCATED MUST BE PROVIDED. SKETCHES AND/OR PICTURES OF PROPOSED SIGNAGE ARE ALSO REQUIRED.**

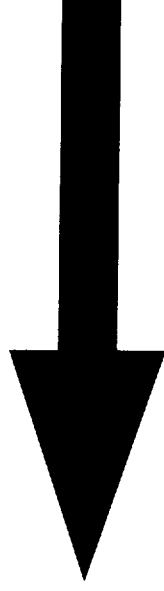
SIGNATURE OF APPLICANT: *Scott Lush* DATE: 8/24/04

\*\*\*\*\* FOR OFFICE USE ONLY \*\*\*\*\*



# Customer Service Center

Maine Turnpike Authority



Aluminum sign with  
wood frame.  
4'x6' on wood posts.

400 Riverside Street

— Proposed — New Sign New Location, in addition to existing Sign

MAINE TURNPIKE AUTHORITY  
430 RIVERSIDE STREET  
877-7771 [www.mainturnpike.com](http://www.mainturnpike.com)

EXISTING SIGN

<b>HNTB</b> <i>The HNTB Companies</i>	Made by <u>TRC</u>	Date <u>1/22/03</u>	Job Number
	Checked by <u>EC</u>	Date	Sheet Number
Calculations For <u>MTA - SIGN SUPPORT</u>	Backchecked by	Date	<u>1</u>

PROPOSED S

(FROM MTA) 2 - 4" x 6" WOOD POSTS

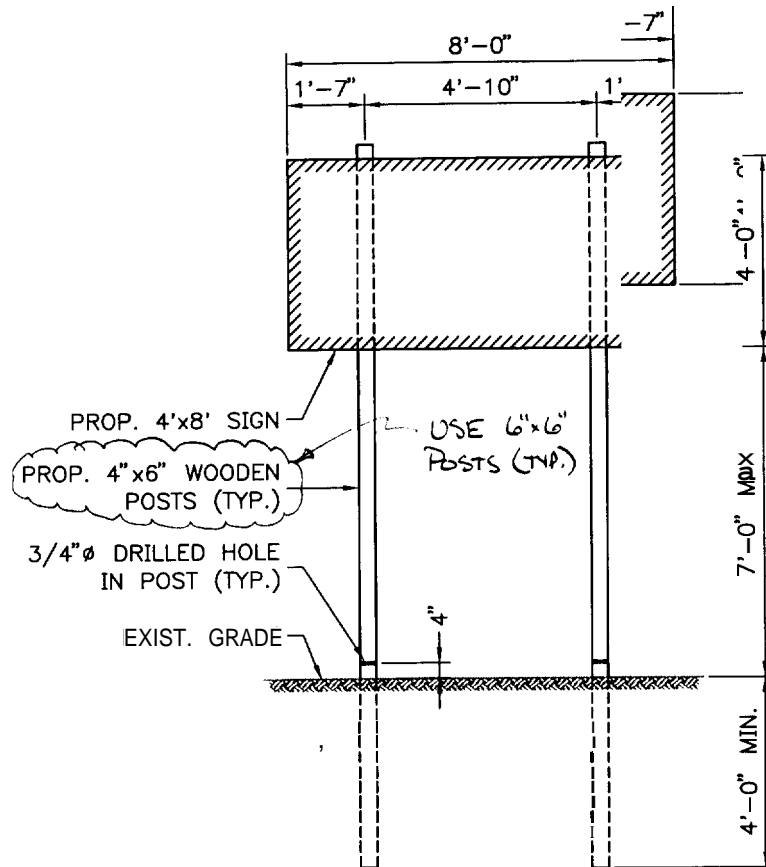
FROM MDOT STANDARD DETAILS

ASSUME: MAX HEIGHT = 6'-0" TO BOTTOM OF SIGN

POST EMBEDMENT = 4'-0" MIN.

POSTS DRILLED 4" ABOVE GRADE FOR BREAKAWAY

POSTS SPACED ON SIGN PANEL @ 1/5 & 4/5 (1'-7", 6'-5")



PROP. SIGN ELEVATION



<b>HNTB</b> The HNTB Companies	Made by TRC	Date 7/22/03	Job Number
	Checked by EC	Date 7/23/03	Sheet Number
Calculations For MTA - SIGN SUPPORT	Backchecked by	Date	2/

## DESIGN SPECIFICATION

AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS  
 FOR HIGHWAY SIGNS, LUMINARES AND TRAFFIC SIGNALS - 1994  
 4TH ED, 2001

## LOADS

ASSUME VERTICAL LOADS WILL BE NEGLIGIBLE

DEAD LOAD - NEGLIGIBLE

LIVE LOAD - (USE DESIGN LIFE = 10 YEARS (TABLE 3-3))

WIND (STD. SPEC. 3.8)

$$P_z = 0.00256 K_z G V^2 I_r C_d \checkmark$$

$$K_z = \text{HEIGHT EXPOSURE FACTOR} = 0.87 \checkmark \text{ (16.4' OR LESS)}$$

$$G = \text{GUST FACTOR} = 1.14 \checkmark$$

$$V = \text{BASIC 50 YR WIND SPEED} = \text{SAY 110 MPH (CONSERVATIVE)}$$

$$I_r = \text{IMPORTANCE FACTOR} = 0.54 \checkmark$$

$$C_d = \text{DRAG COEFFICIENT} = 1.19 \checkmark$$

$$P_z = 0.00256 (0.87)(1.14)(110)^2 (0.54)(1.19)(0.73) = 14.4 \text{ psf} \quad \leftarrow C_v \text{ (TABLE 3-4)}$$

$$\rightarrow P_z = 0.00256 (0.87)(1.14)(100)^2 (0.71)(1.19)(0.84) = 18.0 \text{ psf} \quad \rightarrow \text{OK}$$

CHECK WIND PRESSURE  
 FOR CORRESPONDING NON-  
 HURRICANE WIND (NOTE ON  
 TABLE 3-2)

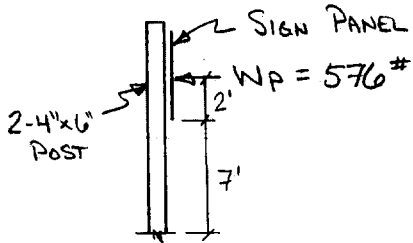
$$\therefore \underline{P_z = 18.0 \text{ psf}}$$

BY INSPECTION GROUP LOADING COMBINATION II WILL GOVERN  
 PERCENT ALLOWABLE STRESS @ COMBINATION II = 133%

<b>HNTB</b> HNTB Companies	Made by TRC	Date 7/22/05	Job Number
	Checked by EC	Date 7/23/02	Sheet Number
Calculations For MTA	Backchecked by	Date	3/

SIGN LOADING

$W_p = 4' \times 8' \times 18.0 \text{ PSF} = 576 \# \checkmark$

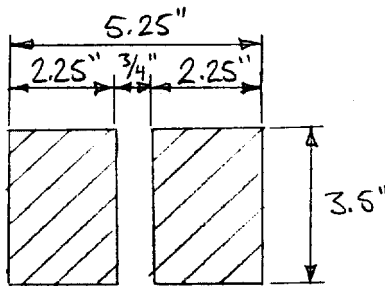


$V_{max} = 576 \# / 2 = 288 \# / \text{POST} \checkmark$

$M_{max} = 576 \# \times 9 \text{ FT} / 2 = 2,592 \text{ LB} \cdot \text{FT} / \text{POST} \checkmark$

CHECK CAPACITY OF 4x6 POSTS

4"x6" ACTUAL DIMENSIONS = 3.5" x 5.25"



PER MAINE STANDARD SPECIFICATIONS  
 WOOD SHALL BE YELLOW PINE,  
 No. 2 OR BETTER.

SECTION THROUGH POST  
 AT DRILLED HOLE

BASIC DESIGN VALUES FOR WOOD POSTS (TABLE 9-3)

SOUTHERN PINE (4"x6"), No. 2 :  $F_b = 1250 \text{ psi} \checkmark$   
 $F_c = 1600 \text{ psi} \checkmark$   
 $F_v = 90 \text{ psi} \checkmark$

WET SERVICE FACTOR ( $C_m$ ) =  $F_b = 0.85$   
 $F_c = 0.80$   
 $F_v = 0.97$  } TABLE 9-7

<b>HNTB</b> The HNTB Companies	Made by TRC	Date 7/22/03	Job Number
	Checked by FC	Date 7/23/03	Sheet Number
Calculations For	Backchecked by	Date	4/

### STRESS CALCULATIONS

$$S_x \text{ POST} = \frac{bh^2}{6} = \frac{3.5(5.25)^2}{6} - \frac{3.5(0.75)^2}{6} = 15.75 \text{ IN}^3 \checkmark$$

$$F_c' = 1.33 \times (0.80) \times 1600 \text{ psi} = 1,702 \text{ psi}$$

$$F_b' = 1.33 \times (0.85) \times 1250 \text{ psi} = 1,413 \text{ psi} \checkmark$$

USE EQ. FOR COMBINED STRESSES (EQ. 9-2), SET  $f_c = 0$

$$\left( \frac{f_c}{F_c'} \right)^2 + \frac{f_b}{F_b' (1 - f_c/F_c')} \leq 1.0 \Rightarrow f_b \leq F_b'$$

$$F_b = M/S_x = \frac{(2,592 \text{ LB}\cdot\text{FT} \times 12 \text{ IN}/\text{FT})}{15.75 \text{ IN}^3} = 1,975 \text{ psi} > 1,413 \text{ psi} \text{ N.G.} \checkmark$$

### TRY 2-6" x 6" POSTS

$$S_x = \frac{5.25 \times (5.25)^2}{6} - \frac{5.25(0.75)^2}{6} = 23.6 \text{ IN}^3 \checkmark$$

$$\text{FOR 6" x 6" POSTS: } F_b = 850 \text{ psi} \checkmark$$

$$F_b' = 1.33(0.85)(850 \text{ psi}) = 961 \text{ psi} \checkmark$$

$$F_b = \left( \frac{2592 \times 12}{23.6} \right) = 1,318 \text{ psi} > 961 \text{ psi} \text{ N.G.} \checkmark$$

### TRY USING 4" x 6" No. 1 SO. YELLOW PINE POSTS

$$F_b = 1.33(0.85)(1650 \text{ psi}) = 1,865 \text{ psi} > 1,975 \text{ psi} \text{ N.G.}$$

### TRY USING 6" x 6" No. 1 SO. YELLOW PINE POSTS

$$F_b = 1.33(0.85)(1350 \text{ psi}) = 1,526 \text{ psi} > 1,318 \text{ psi} \text{ (OK)}$$

USE 2-6" x 6" TREATED SO. YELLOW PINE, No 1 OR BETTER POSTS

<b>HNTB</b> The HNTB Companies	Made by TRC	Date 7/23/03	Job Number
	Checked by JC	Date 7/24/03	Sheet Number
Calculations For	Backchecked by	Date	5/

CHECK POST EMBEDMENT DEPTH (AASHTO STD. SPEC. SEC 13.10)

ASSUME : EMBEDMENT = 4'-0"

SOIL BEARING CAPACITY = 1 KSF

GRANULAR SOIL

CHECK POST CAPACITY USING FIGURE 13-4

$$D = 4 \text{ FT}$$

$$S_1 = 1 \text{ KSF}$$

$$P = 0.29 \text{ KIPS } \checkmark$$

$$C = \frac{P}{S_1} = \frac{0.29}{1} = 0.29$$

$$b = 0.5 \text{ FT}$$

$$L = \frac{C}{b} = \frac{0.29}{0.5} = 0.58$$

$$H = 9 \text{ FT}$$

FROM GRAPH 4 FT EMBEDMENT IS ADEQUATE WITH A  
SOIL PRESSURE OF 1 KSF

*S<sub>1</sub> = 1 KSF  
CONSERVATIVE  
SAY OK*

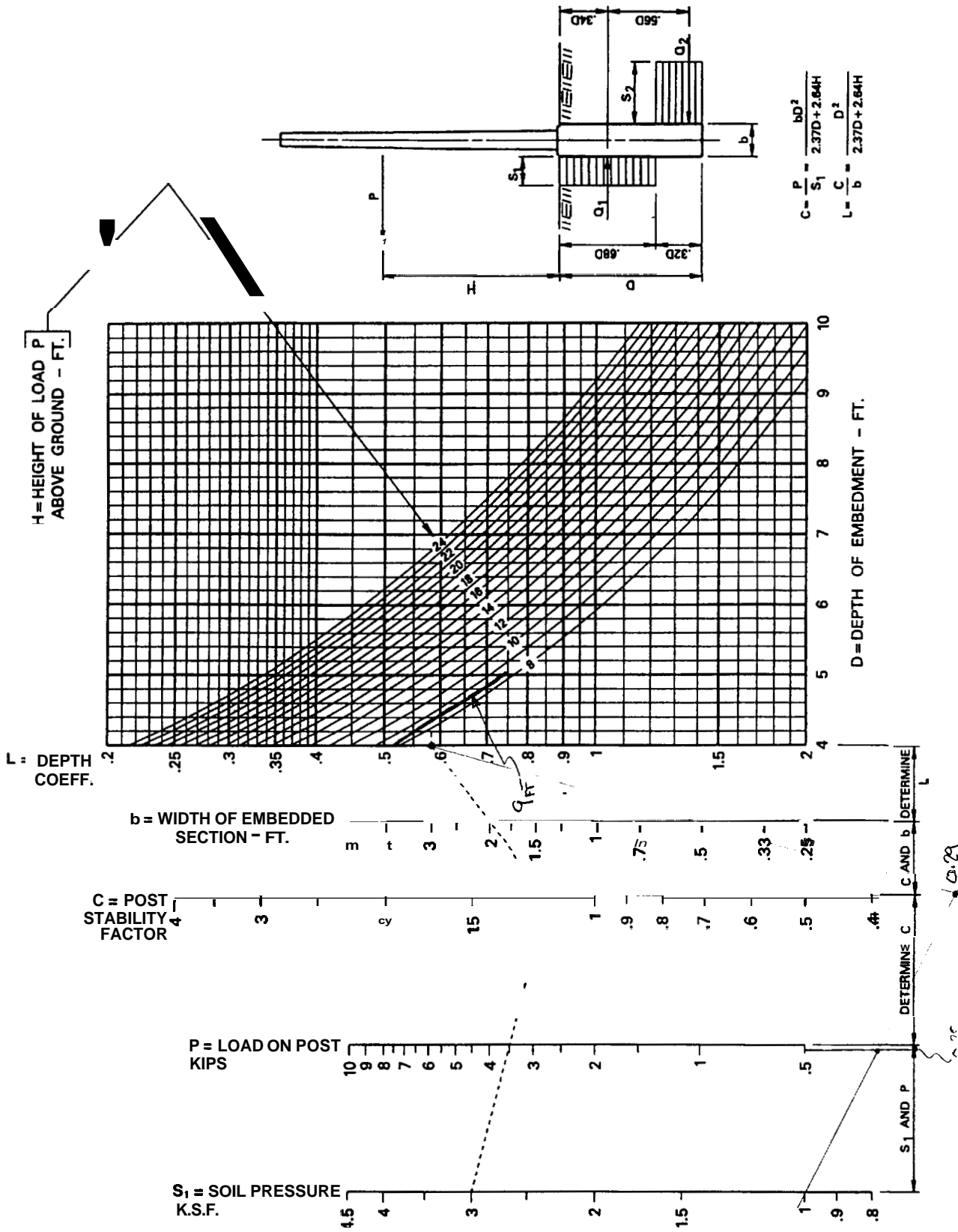
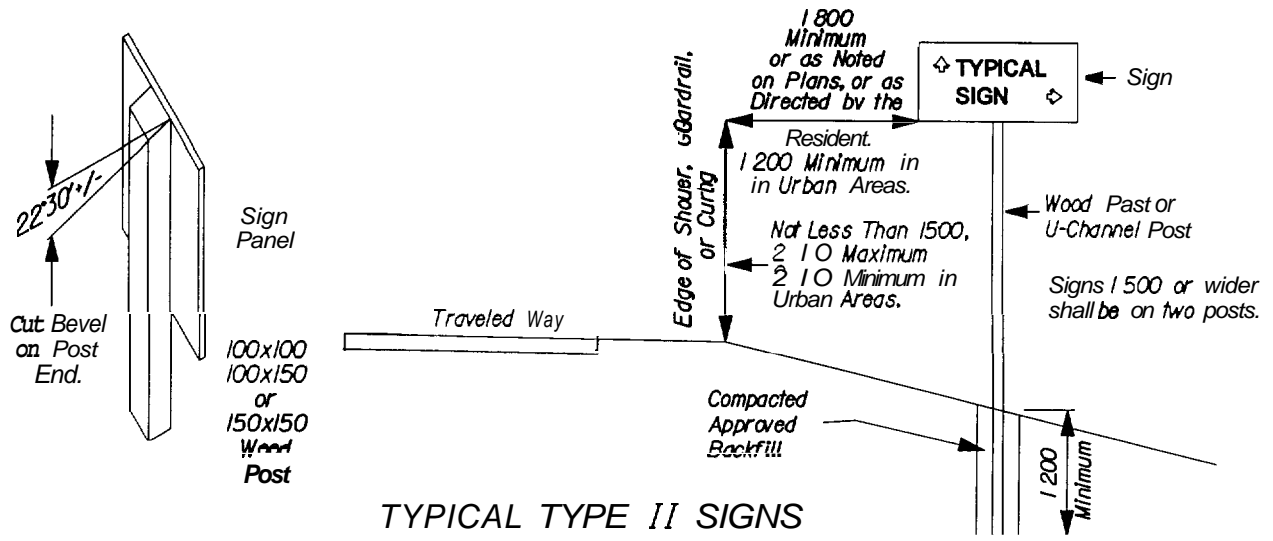
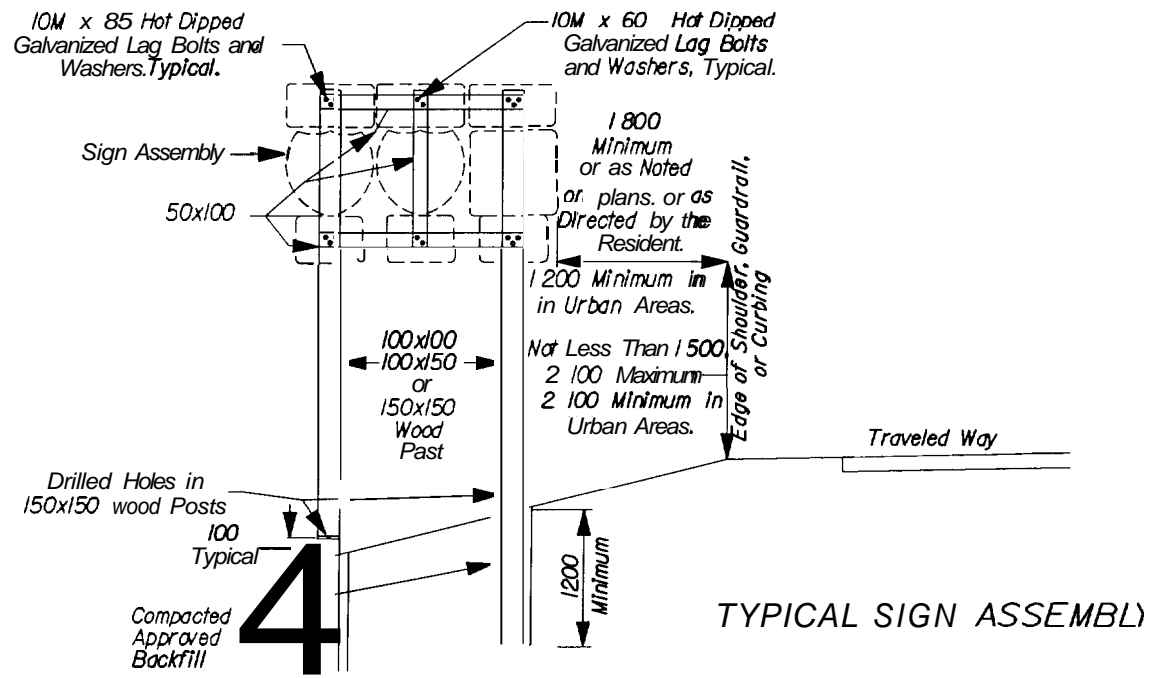


Figure 13-4. Embedment of Posts with Overturning Loads (U.S. Units)



TYPICAL TYPE II SIGNS



TYPICAL SIGN ASSEMBLY

**NOTES:**  
 Refer to Section 645.061 of the Standard Specifications to determine the size of wood posts. All wood posts and brackets shall be pressure treated to CCA 40. On 150x150 wood posts only, drill 18mm diameter holes at right angles to one another 100mm above ground level. to meet breakaway standards.

ITEM NO. 645.291  
 ITEM NO. 645.292

**INSTALLATION OF TYPE ■ SIGNS**  
**HIGHWAY SIGNING**  
 645(09)

Table 2.12 *IL, ILb, Im, Ima, Imb, IH, IHk* *2/5/97*  
**Industrial ~~I-1, I-2, I-2b, I-3, I-3b, I-4~~, and Waterfront Port -  
 Development Zones**

Freestanding Signs	Single Tenant Buildings	Multi-Tenant Buildings
	Maximum Permitted Area	35 sq. ft.
Height	10 ft.	15 ft.
Setback	5 ft.	5 ft.
# Freestanding signs per lot	1 (a)	1 (a)

*only 1 Allowed*

**Building Signs** *Attached to Bldgs*

	Single Tenant Buildings	Multi-Tenant Buildings	
	Maximum permitted sign area	na	na
Max % of wall area on which sign(s) is(are) to be placed	6%	Principal Facade(s) 8%	All Other Facade(s) 2%
# bldg. signs permitted per lot	2/building face	1/tenant plus 1 additional per building face (a)	