

**PERMIT ISSUED**

**City of Portland, Maine - Building or Use Permit Application**  
 389 Congress Street. 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	03-0946	Issue Date:	APR 26 2005	CBL:	320 A003001
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Location of Construction:	420 Riverside St	Owner Name:	Maine Turnpike Authority	Owner Address:	430 Riverside St	Phone:	207-871-7771
Business Name:	n/a	Contractor Name:	self	Contractor Address:	207 OFFICE BUILDING PORTLAND	Phone:	
Lessee/Buyer's Name:	n/a	Phone:	n/a	Permit Type:	Free Standing Sign	Zone:	IM

Past Use:	Commercial	Proposed Use:	Commercial / Office; Erect aluminum 7m 4' x 8' double sided wood frame sign.	Permit Fee:	\$98.00	Cost of Work:	\$0.00	CEO District:	1
Proposed Project Description:	Erect Aluminum 4' x 8' double sided wood frame sign. <i>free standing</i>			FIRE DEPT:	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION:	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	Type:	Sign

Permit Taken By:	gg	Date Applied For:	08/05/2003	Signature:	<i>gg</i>	Signature:	<i>cc</i>
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.				Signature: _____ Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____			

2. Building permits do not include plumbing, septic or electrical work.		Special Zone or Reviews		Zoning Appeal		Historic Preservation	
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.		<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan		<input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation		<input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	
Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> DD <input type="checkbox"/> DD		Date: <i>01/20/05</i>		Date: <i>01/20/05</i>		Date: <i>01/20/05</i>	

**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 \_\_\_\_\_

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

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

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Location of Construction:	420 Riverside St	Owner Name:	Maine Turnpike Authority	Owner Address:	430 Riverside St	Phone:	207-871-7771
Business Name:	n/a	Contractor Name:	self	Contractor Address:	Portland	Phone:	
Lessee/Buyer's Name	n/a	Phone:	n/a	Permit Type:	Signs - Permanent		

Proposed Use:	Commercial / Office: Erect aluminum 4' x 8' double sided wood frame sign.	Proposed Project Description:	Erect Aluminum 4' x 8' double sided wood frame sign.
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**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Marge Schmuckal      **Approval Date:** 08/20/2003  
**Note:** 8/19/03 sign is one foot too tall - will call      **OK to Issue:**   
 8/20/03 Scott is faxing plans adjusting height to 10'

**Dept:** Building      **Status:** Approved      **Reviewer:** Tammy Munson      **Approval Date:** 08/22/2003  
**Note:** 1) Signage Installation to comply with Chapter 31 BOCA 1999      **OK to Issue:**

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

Please Read Application And Notes, if Any, Attached

## BUILDING INSPECTION

# PERMIT

Permit Number: 030946

PERMIT ISSUED

This is to certify that Maine Turnpike Authority/sc

has permission to Erect Aluminum 4' x 8' doub

AT 420 Riverside St

ded work frame S

320 A003001

AUG 25 2009

CITY OF PORTLAND

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.

### OTHER REQUIRED APPROVALS

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

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

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

Other \_\_\_\_\_

Department Name

Notification given and written on this building or closed-in. INSPECTION NOTICE IS REQUIRED.

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

PENALTY FOR REMOVING THIS CARD

Director - Building & Inspection Services

# 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.

Location/Address of Construction: <u>430 RIVERSIDE ST</u>		Total Square Footage of Proposed Structure <u>34 sq ft</u>		Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <u>320</u> Block# <u>A</u> Lot# <u>3</u>		Owner: <u>HOME TURNPIKE AUTHORITY</u>		Telephone: <u>871-7771</u>	
Lessee/Buyer's Name (if Applicable)		Applicant name, address & telephone: <u>SCOTT LAHMANE</u> <u>HTA</u> <u>430 RIVERSIDE ST</u> <u>PORTLAND, ME 04103</u>		Total s.f. of signage x \$1.00 per s.f. plus \$30.00 = Total Fee: <u>\$ 68.00</u>	
Current use: <u>OFFICE</u>		If the location is currently vacant, what was prior use: _____		Awning Fee = Cost Of Work: \$ _____	
Approximately how long has it been vacant: _____		Proposed use: <u>OFFICE OF FREESTANDING SIGN</u>		Total Fee: \$ <u>98.00</u>	
Project description: <u>4' x 8' double sided road sign</u>					
Contractor's name, address & telephone: <u>Self</u>					
Who should we contact when the permit is ready: <u>Scott Lahmane 828-5819 cell</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: Scott Lahmane Date: 6.24.03

**This is NOT a permit, you may not commence ANY work until the permit is issued.**

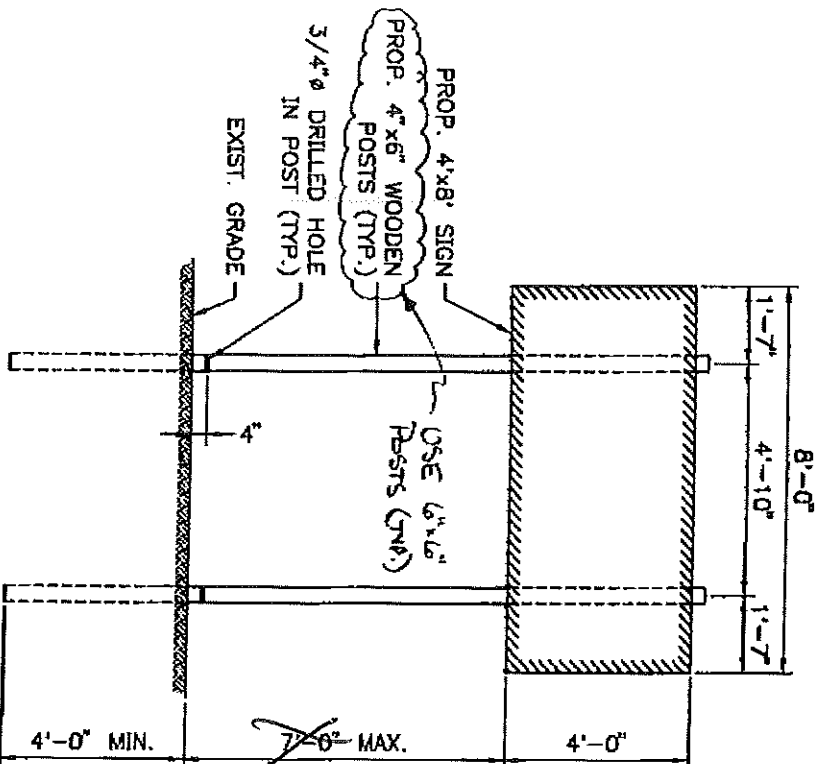
<b>FHNTB</b> THE FHNTB Companies		Made by	TRC	Date	7/22/03	Job Number	
Calculations For		Checked by	EC	Date	7/13/03	Sheet Number	1
MMA - SIGN SUPPORT		Backchecked by		Date			

PROPOSED SIGN - CROSSBY MAINTENANCE

SIGN INFO - 4' TALL x 8' WIDE  
(FROM MMA) 2 - 4" x 6" WOOD POSTS

FROM MIMOT 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")



10' high

PROP. SIGN ELEVATION

**Maine Turnpike Authority**  
**Fax Cover Sheet**

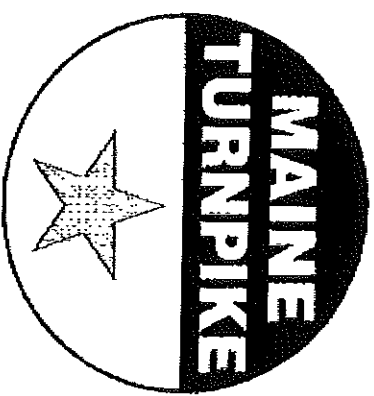
**From:** Scott N. Lachance  
Right of Way Agent

**To:** Marge, City of Portland

**Date:** August 20, 2003

**Fax No.** 207-874-8716

*Number of Sheets, Including This One:* 2



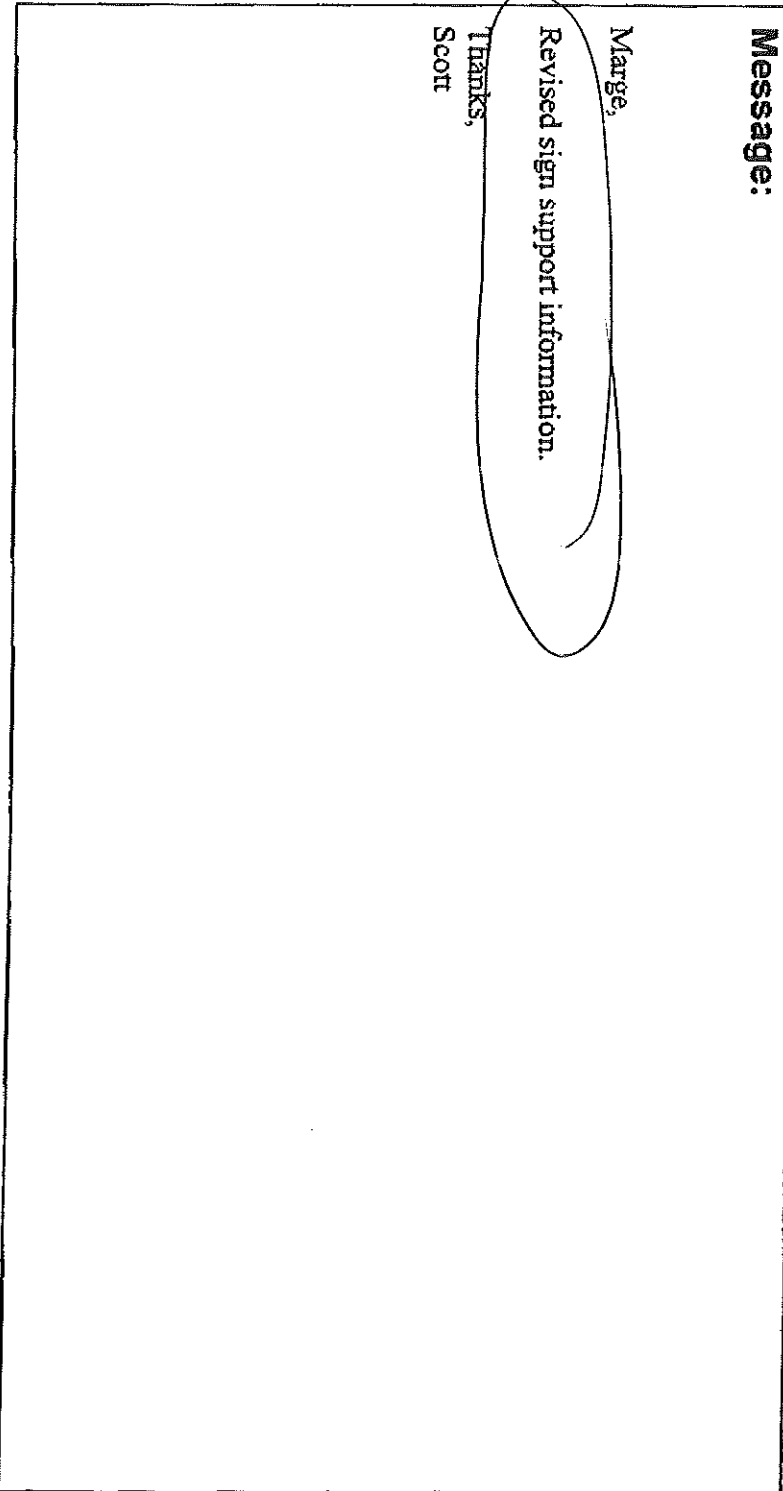
430 Riverside Street  
Portland, Maine 04103

Voice: 207-828-5819  
Fax: 207-828-5815  
Email: [slachance@maineturnpike.com](mailto:slachance@maineturnpike.com)

**Message:**

Marge,  
Revised sign support information.

Thanks,  
Scott



Made by TRC

Date 7/22/03

Job Number

Checked by E.C.

Date 7/23/03

Sheet Number

Backchecked by

Date

1/

## PROPOSED SIGN - CROSBY MAINTENANCE

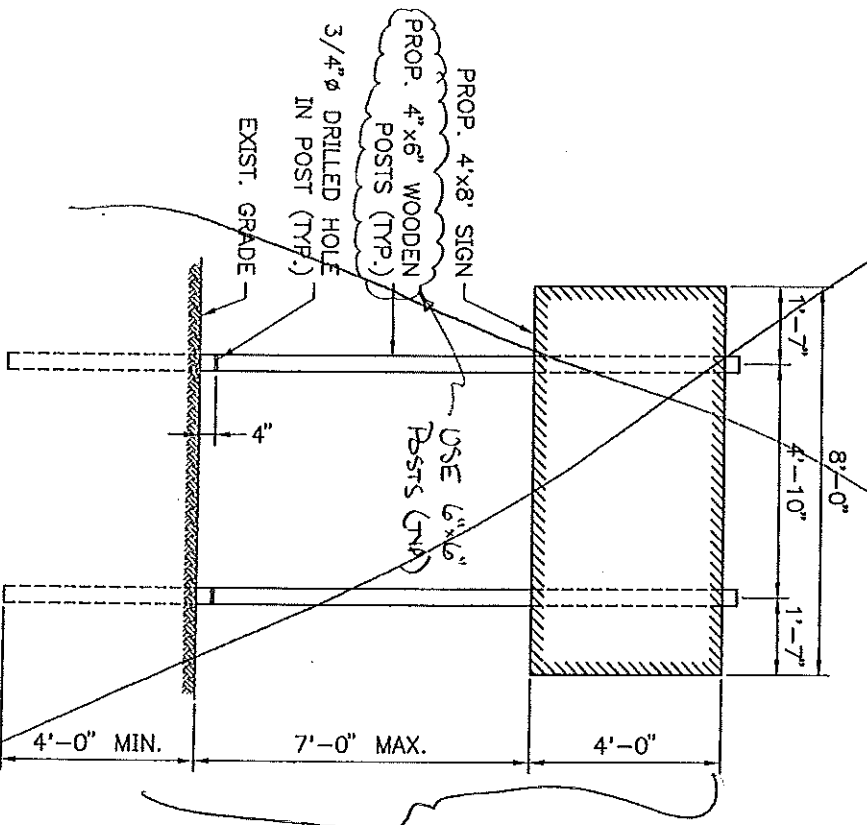
SIGN INFO - 4' TALL x 8' WIDE  
(FROM MTA) 2 - 4" x 6" WOOD POSTS

FROM MOST STANDARD DETAILS

SEE REVERSE

ASSUME: MAX HEIGHT = 7'-0" TO BOTTOM OF SIGN  
POST EMBEDMENT = 4'-0" MIN.

POSTS DRILLED 1/4" ABOVE GRADE FOR BREAKAWAY  
POSTS SPACED ON SIGN PANEL @ 1/5 & 4/5 (1'-7", 6'-5")



PROP. SIGN ELEVATION

Made by	TRC	Date	7/22/03	Job Number	
Checked by	PC	Date	7/23/03	Sheet Number	2/
Backchecked by		Date			

DESIGN SPECIFICATION

AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS  
FOR HIGHWAY SIGNS, LUMINAIRES 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)

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

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

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

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

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

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

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

$$P_z = 0.00256 (0.87)(1.14)(100)^2 (0.71)(1.19)(0.84) = 18.0 \text{ psf } 5' \text{ or } 6' \text{ or } 7'$$

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

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

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



Made by TRC

Date 7/22/03

Job Number

Checked by EC

Date 7/13/02

Sheet Number

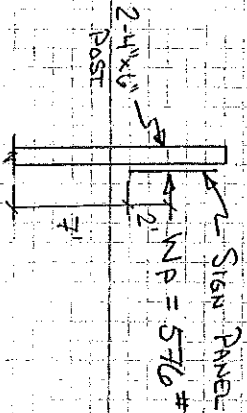
Backchecked by

Date

3/

## SIGN LOADING

$$MIP = 4' \times 8' \times 1/8 \text{ DRSF} = 576 \# \checkmark$$

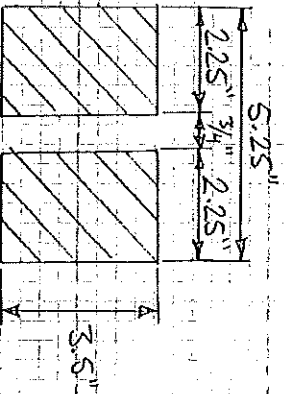


$$N_{MAX} = 576 \# / 2 = 288 \# / \text{POST} \checkmark$$

$$N_{MAX} = 576 \# \times 91 \# / 2 = 2,592 \text{ LB} \cdot \text{FT} / \text{POST} \checkmark$$

## CHECK CAPACITY OF 4' x 6' POSTS

$$4' \times 6' \text{ ACTUAL DIMENSIONS} = 3.5'' \times 5.25''$$



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' x 6'), No. 2 :  $F_G = 1250 \text{ psi} \checkmark$

$$F_C = 1600 \text{ psi} \checkmark$$

$$F_V = 90 \text{ psi} \checkmark$$

WET SERVICE FACTOR ( $C_M$ ) =  $F_B = 0.85 \checkmark$

$$F_C = 0.80$$

$$F_V = 0.97$$

TABLE 9-7

STRESS CALCULATIONS

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

$$F_c' = 1.33 \times (0.80) \times 1600 \text{ psi} = 1702 \text{ psi}$$

$$F_b' = 1.33 \times (0.85) \times 1250 \text{ psi} = 1413 \text{ psi} \checkmark$$

USE EQ. FOR COMBINED STRESSES (EA. 9.2) SET  $F_c = 0$

$$\left( \frac{S_x}{F_c} \right)^2 + \frac{F_b (1 - \frac{S_x}{F_c})}{F_b} \leq 1.0 \Rightarrow S_b \leq F_b$$

$$F_b = N/S_x = \frac{(2.592 \text{ LB/FT} \times 12 \text{ IN/FT})}{15.75 \text{ IN}^3} = 1975 \text{ psi} > 1413 \text{ psi} \quad \text{N.G.} \checkmark$$

TRY 2-6" x 6" POSTS

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

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

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

$$F_b = \left( \frac{2592 \times 12}{23.6} \right) = 1318 \text{ psi} > 961 \text{ psi} \quad \text{N.G.} \checkmark$$

TRY USING 4" x 6" No. 1 So. Yellow Pine Posts

$$F_b = 1.33 (0.85) (1650 \text{ psi}) = 1865 \text{ psi} > 1413 \text{ psi} \quad \text{N.G.}$$

TRY USING 6" x 6" No. 1 So. Yellow Pine Posts

$$F_b = 1.33 (0.85) (1350 \text{ psi}) = 1526 \text{ psi} > 1318 \text{ psi} \quad \text{OK}$$

USE 2-6" x 6" TREATED So. Yellow Pine, No. 1 OR BETTER POSTS

Made by TRC

Date 7/23/03

Job Number

Checked by PC

Date 7/24/03

Sheet Number

Backchecked by

Date

51

Calculations For

CHECK POST EMBEDMENT DEPTH (ASHTO 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 KSFOK  
CONSERVATIVE  
STATE OK

**MAINE TURNPIKE AUTHORITY**



**430 RIVERSIDE STREET**  
**871-7771**    **[www.mainturnpike.com](http://www.mainturnpike.com)**

SIGNAGE/AWNING PRE-APPLICATION QUESTIONNAIRE

PLEASE ANSWER ALL QUESTIONS

ADDRESS: 430 RIVERSIDE ST ZONE: TH

CBL: 320-A-3

SINGLE TENANT LOT? YES  NO  MULTI TENANT LOT? YES  NO   
MORE THAN ONE SIGN TOTAL WITH PROPOSED SIGN? YES  NO

INFORMATION ON PROPOSED SIGN(S):

FREESTANDING (e.g., pole) SIGN? YES  NO  DIMENSIONS PROPOSED: 4' x 8'  
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: \_\_\_\_\_  
BLDG. WALL SIGN (attached to bldg)? YES  NO  DIMENSIONS: \_\_\_\_\_  
AWNING? YES  NO  DIMENSIONS: \_\_\_\_\_

LOT FRONTAGE (FEET): 303' ±  
TENANT/ALLOCATED BUILDING SPACE FRONTAGE (FEET): \_\_\_\_\_

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: [Signature] DATE: 6-24-03

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

Item single tenant - Free Stand sign

Max Area - 35 sq ft

Max height - 10' DND

Setback - 5' - 10' + shown

327 #

Free Stand sign

7986/03 - set back showing 10ft - 6ft

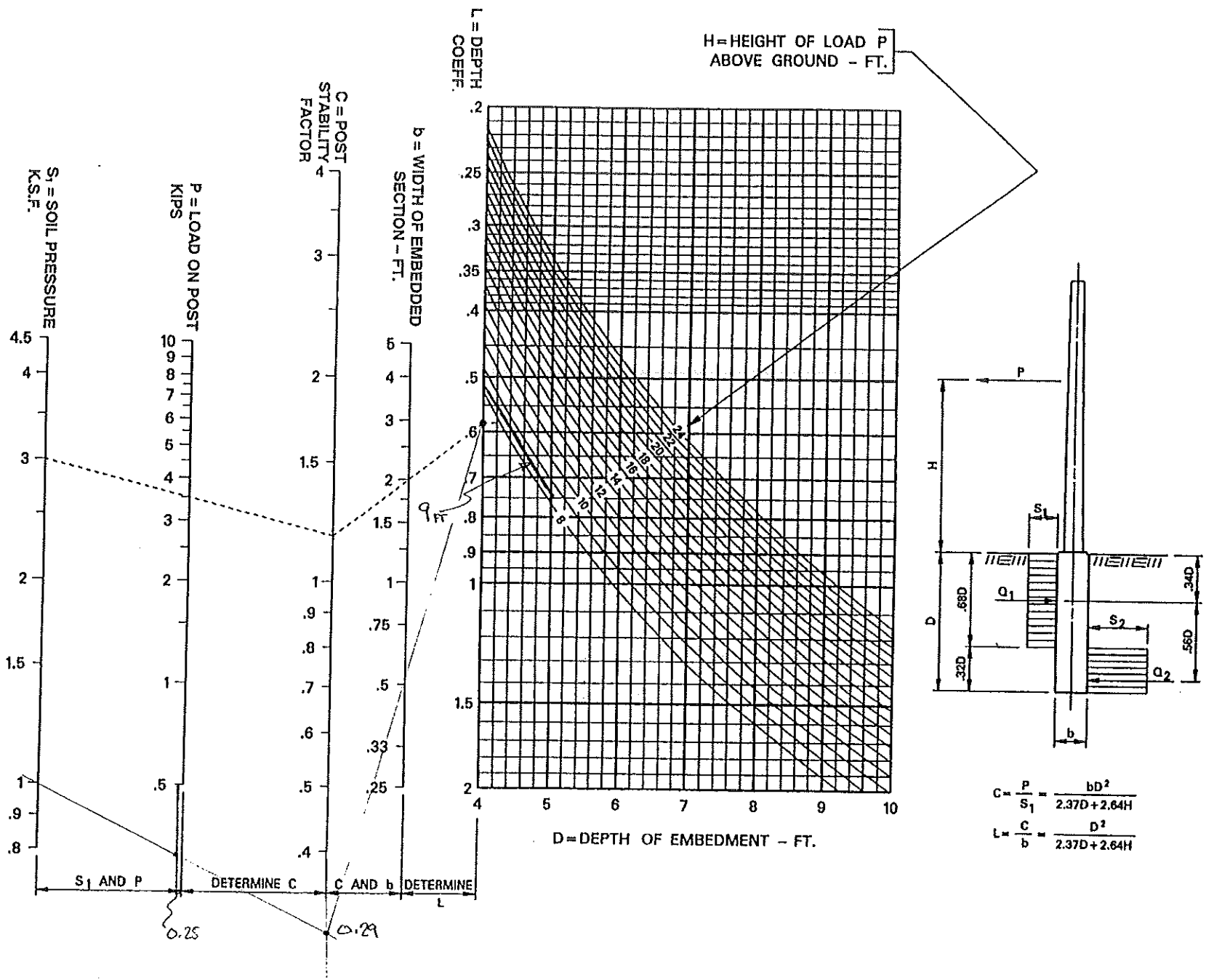
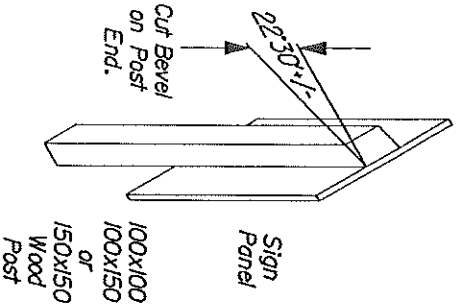
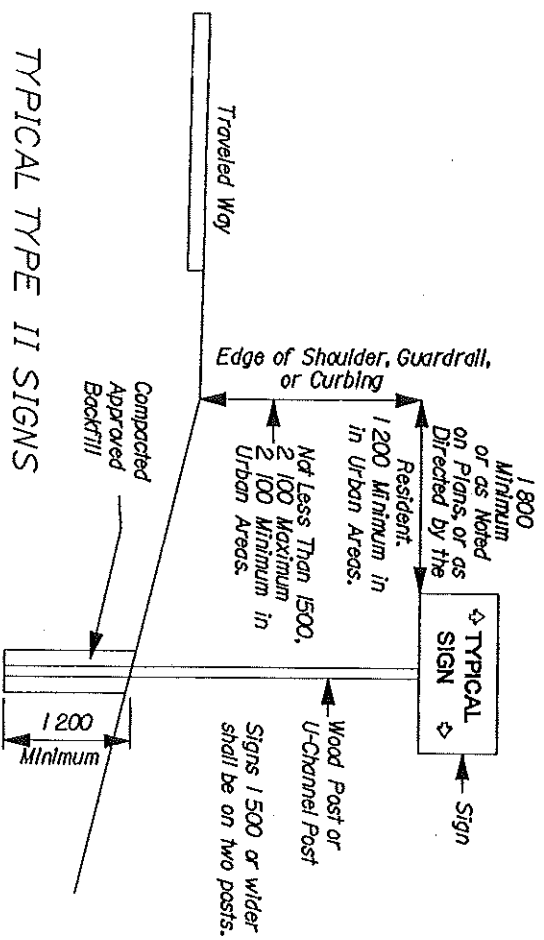


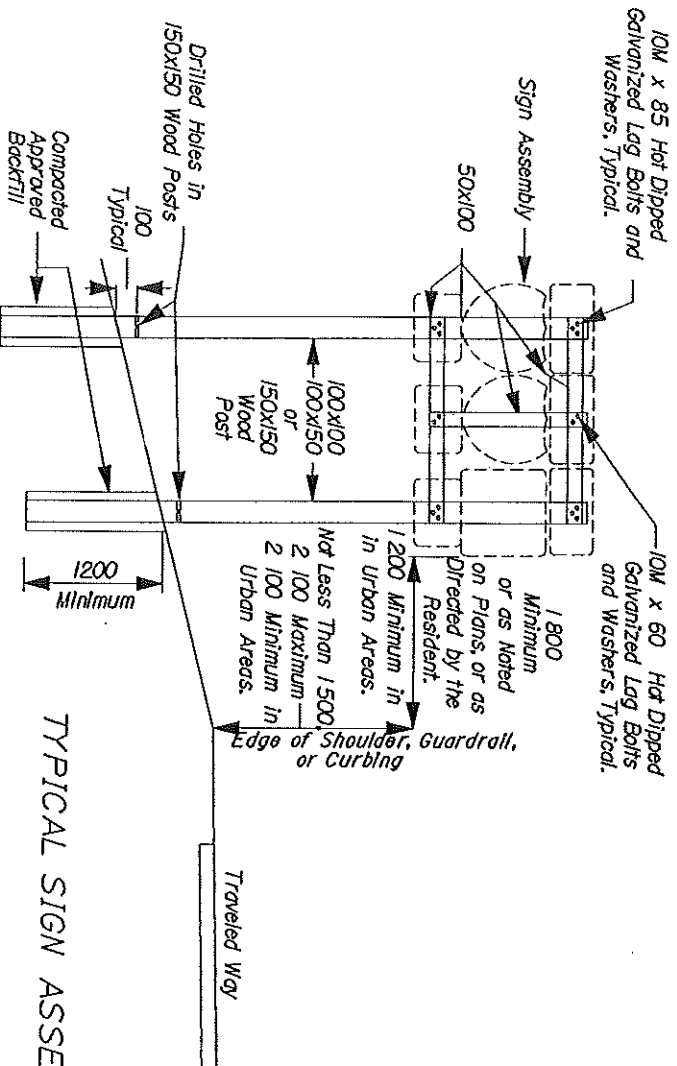
Figure 13-4. Embedment of Posts with Overturning Loads (U.S. Units)



100x100  
100x150  
or  
150x150  
Wood  
Post



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 II SIGNS  
HIGHWAY SIGNING  
645(09)



# BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initialzing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below

*Jay Reynolds* Pre-construction Meeting: Must be scheduled with your inspection team upon receipt of this permit. Jay Reynolds, Development Review Coordinator at 874-8632 must also be contacted at this time, before any site work begins on any project other than single family additions or alterations.

- Footing/Building Location Inspection: Prior to pouring concrete
- Re-Bar Schedule Inspection: Prior to pouring concrete
- Foundation Inspection: Prior to placing ANY backfill
- Framing/Rough Plumbing/Electrical: Prior to any insulating or drywalling
- Final/Certificate of Occupancy: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

**CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED**

*Jay Reynolds* Signature of applicant/designee \_\_\_\_\_ Date 8/25/03  
Signature of Inspections Official \_\_\_\_\_ Date \_\_\_\_\_

CBL: 320 A003 Building Permit #: 03-0946