

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that PARTNERS LIMITED» BRAMHALL

Located At 794 CONGRESS

Job ID: 2011-07-1824-ALTCOMM

CBL: 054 - - F - 001 - 001 - - - -

has permission to Repair masonry due to vehicle collision

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

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD**

[Handwritten signature and date 9/8/11]



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-07-1824-ALTCOMM

Located At: 794 CONGRESS

CBL: 054 - - F - 001 - 001 - - - -

Conditions of Approval:

Zoning

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2. ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
3. This property shall remain 36 residential dwelling units with office space. Any change of use shall require a separate permit application for review and approval.

Building

1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
2. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-07-1824-ALT/COMM	Date Applied: 7/22/2011	CBL: 054 - - F - 001 - 001 - - - - -	
Location of Construction: 794 CONGRESS ST/79 Bramhall St	Owner Name: BRAMHALL PARTNERS LIMITED	Owner Address: 3 CHURCH ST WINCHESTER, MA - MASSACHUSETTS 01890	Phone:
Business Name:	Contractor Name: LANGFORD, & LOW INC - Aaron Madison	Contractor Address: PO BOX 662 PORTLAND MAINE 04104	Phone: (207) 797-5141
Lessee/Buyer's Name:	Phone:	Permit Type: Building alterations	Zone: B-2b
Past Use: 36 Residential DU with Office Space	Proposed Use: Same: 36 DU with Office Space - to make repairs due to vehicle impact - steel beam & Masonry	Cost of Work: \$36,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: R-2 Type: 3B
Proposed Project Description: steel beam & masonry repairs monies on 2011-07-1768		Signature: <i>[Signature]</i> (58)	Signature: <i>[Signature]</i>
		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Lannie **Zoning Approval**

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</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 informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>___ Maj ___ Min ___ MM</p> <p>Date: <i>07/29/11</i></p>	<p>Zoning Appeal</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>Historic Preservation</p> <p><i>w/this</i></p> <p><input type="checkbox"/> Not in Dist 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 checked="" type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>7/29/11</i></p> <p><i>D. Andrews</i></p>
	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	PHON



General Building Permit Application

7/22 201107 1766
182 entered 8/20/11

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>79 BRAMHALL ST / 794 CONGRESS ST</u>		
Total Square Footage of Proposed Structure/Area <u>NO INCREASE</u>		Square Footage of Lot <u>0.871 A</u>
Tax Assessor's Chart, Block & Lot Chart# <u>54</u> Block# <u>F</u> Lot# <u>1</u>	Applicant * <u>must be owner, Lessee or Buyer</u> * Name Address City, State & Zip	Telephone: <u>B-2b</u>
Lessee/DBA (If Applicable) RECEIVED JUL 22 2011 Dept. of Building Inspections City of Portland, Maine	Owner (if different from Applicant) Name <u>BRAMHALL PARTNER LTD.</u> Address <u>3 CHURCH ST</u> City, State & Zip <u>WINCHESTER MA, 01890</u>	Cost Of Work: \$ <u>36,000</u> C of O Fee: \$ _____ Total Fee: \$ <u>380.00</u>
Current legal use (i.e. single family) <u>APARTMENTS</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>SAME</u> Is property part of a subdivision? <u>NO</u> If yes, please name _____ Project description: <u>STEEL BEAM & MASONRY REPAIRS DUE TO VEHICLE IMPACT.</u>		
Contractor's name: <u>LANGFORD & LOW INC</u> Address: <u>248 WARDEN AVE</u> City, State & Zip: <u>PORTLAND ME 04104</u> Telephone: <u>797-5141</u> Who should we contact when the permit is ready: <u>ARON MADISON</u> Telephone: _____ Mailing address: <u>SAME</u>		

36 DU & office space

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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: _____ Date: _____

This is not a permit; you may not commence ANY work until the permit is issue



Certificate of Design Application

ASSOCIATED DESIGN PARTNERS, INC

From Designer:

Date:

7-21-11

Job Name:

79 Bramhall St - Masonry Repairs

Address of Construction:

79 Bramhall St, Portland Maine

2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year 2009 IBC Use Group Classification (s) R

Type of Construction 5

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC N

Is the Structure mixed use? N If yes, separated or non separated or non separated (section 302.3)

Supervisory alarm System? N Geotechnical/Soils report required? (See Section 1802.2) N

Structural Design Calculations

Submitted for all structural members (106.1 - 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
Residential	40 PSF

Wind loads (1603.1.4, 1609)

SIMPLIFIED	Design option utilized (1609.1.1, 1609.6)
100	Basic wind speed (1809.3)
1.0	Building category and wind importance factor, I_w
B	Wind exposure category (1609.4)
.18	Internal pressure coefficient (ASCE 7)
	Component and cladding pressures (1609.1.1, 1609.6.2.2)
	Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

NA	Design option utilized (1614.1)
NA	Seismic use group ("Category")
NA	Spectral response coefficients, S_D & S_1 (1615.1)
NA	Site class (1615.1.5)

NO INCREASE IN SEISMIC LOADS OR CHANGES TO LATERAL FORCE RESISTING SYSTEM.

NO	Live load reduction
20	Roof <i>live</i> loads (1603.1.2, 1607.11)
42	Roof snow loads (1603.7.3, 1608)
60	Ground snow load, P_g (1608.2)
42	If $P_g > 10$ psf, flat-roof snow load, P_f
1	If $P_g > 10$ psf, snow exposure factor, C_e
1	If $P_g > 10$ psf, snow load importance factor, I_s
NA 1.0 WARM	Roof thermal factor, C_t (1608.4)
NA	Sloped roof snowload, P_s (1608.4)
NA	Seismic design category (1616.3)
	Basic seismic force resisting system (1617.6.2)
	Response modification coefficient, R_w and deflection amplification factor, C_d (1617.6.2)
	Analysis procedure (1616.6, 1617.5)
	Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

NA	Flood Hazard area (1612.3)
NA	Elevation of structure

Other loads

NA	Concentrated loads (1607.4)
NA	Partition loads (1607.5)
NA	Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



Certificate of Design

Date: 7-21-11 _____

From: ASSOCIATED DESIGN PARTNERS, INC _____

These plans and / or specifications covering construction work on:

79 BRAMHALL ST - MASONRY REPAIRS 79 BRAMHALL ST, PORTLAND MAINE

A VEHICLE STRUCK AN OVERHEAD STEEL BEAM AND CRACKED THE EXISTING MULTI-WYTHE BRICK PIERS / WALLS. THE ATTACHED PLANS DEPICT THE REPAIRS NECESSARY TO RESTORE THE DAMAGED AREAS.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2003 International Building Code** and local amendments.



Signature: *Aaron S. Nelson*

Title: ENGINEER

Firm: ASSOCIATED DESIGN PARTNERS, INC

Address: 80 LEIGHTON RD

FALMOUTH, ME 04105

Phone: 878-1751

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

July 22 2011

Received from Concra Construction Inc

Location of Work 741 Birchwood

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: _____

Building (IL) _____ Plumbing (I5) _____ Electrical (I2) _____ Site Plan (U2) _____

Other _____

CBL: 054 Fee / 360.00 154 490.00

Check #: 43272 Total Collected \$ 370.00

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: Heyle

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

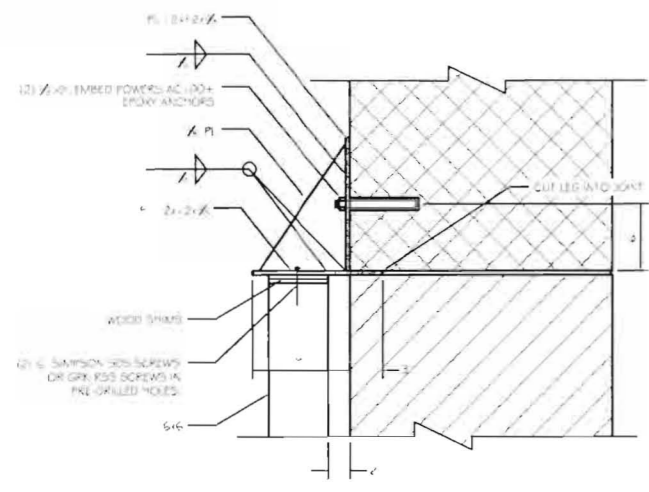
or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

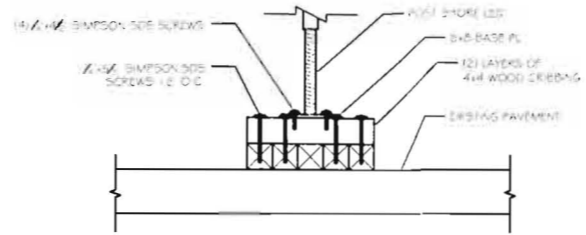
- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
 - **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
 - **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**
1. Close-in inspection required prior to insulating or drywalling.
 2. Final inspection required upon completion of work.

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

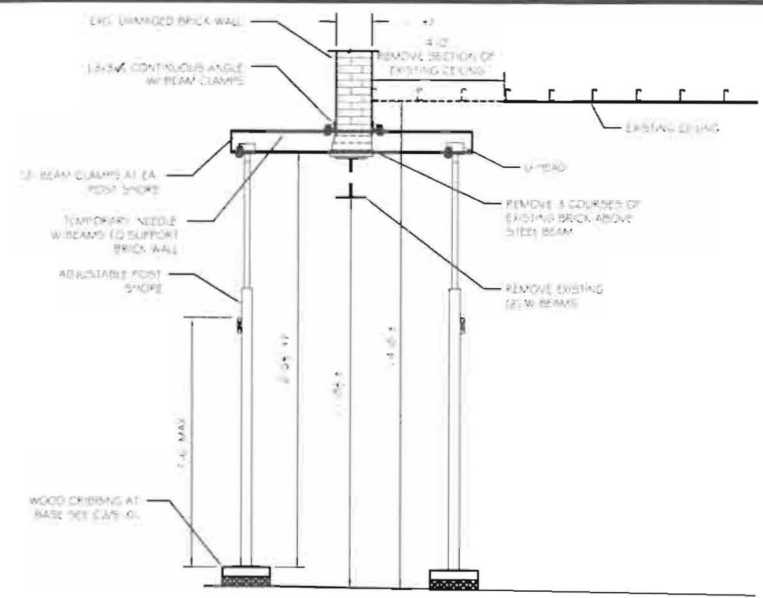
IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



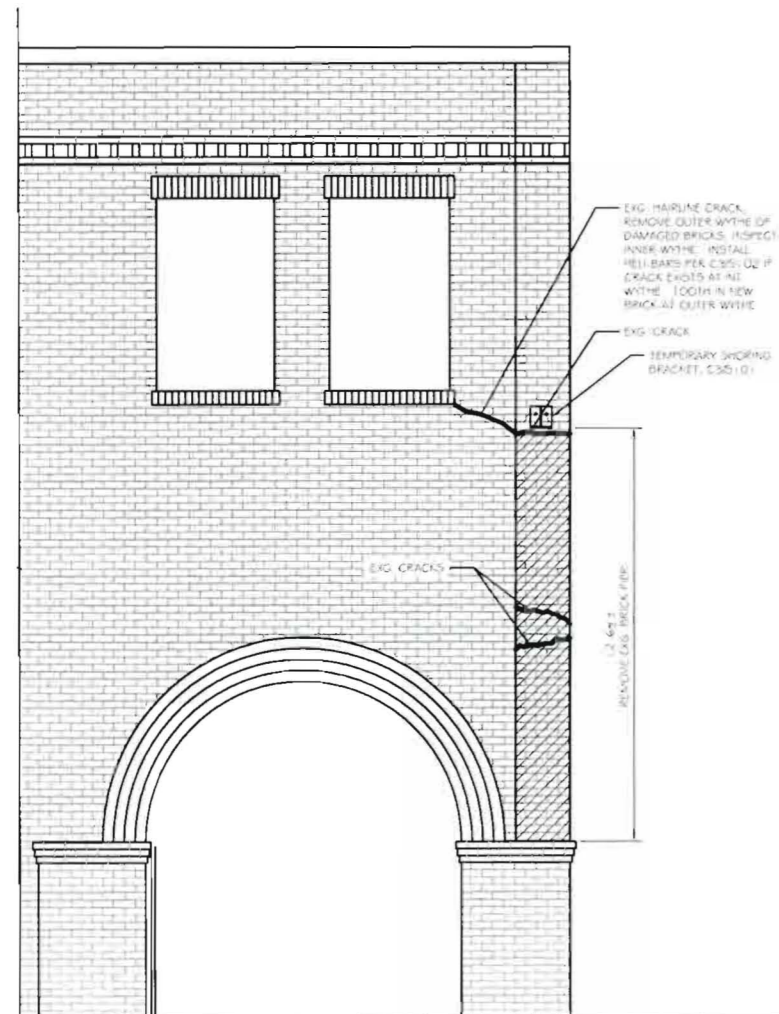
C3 BRICK PIER POST SHORE DETAIL
SCALE: 1/2" = 1'-0"



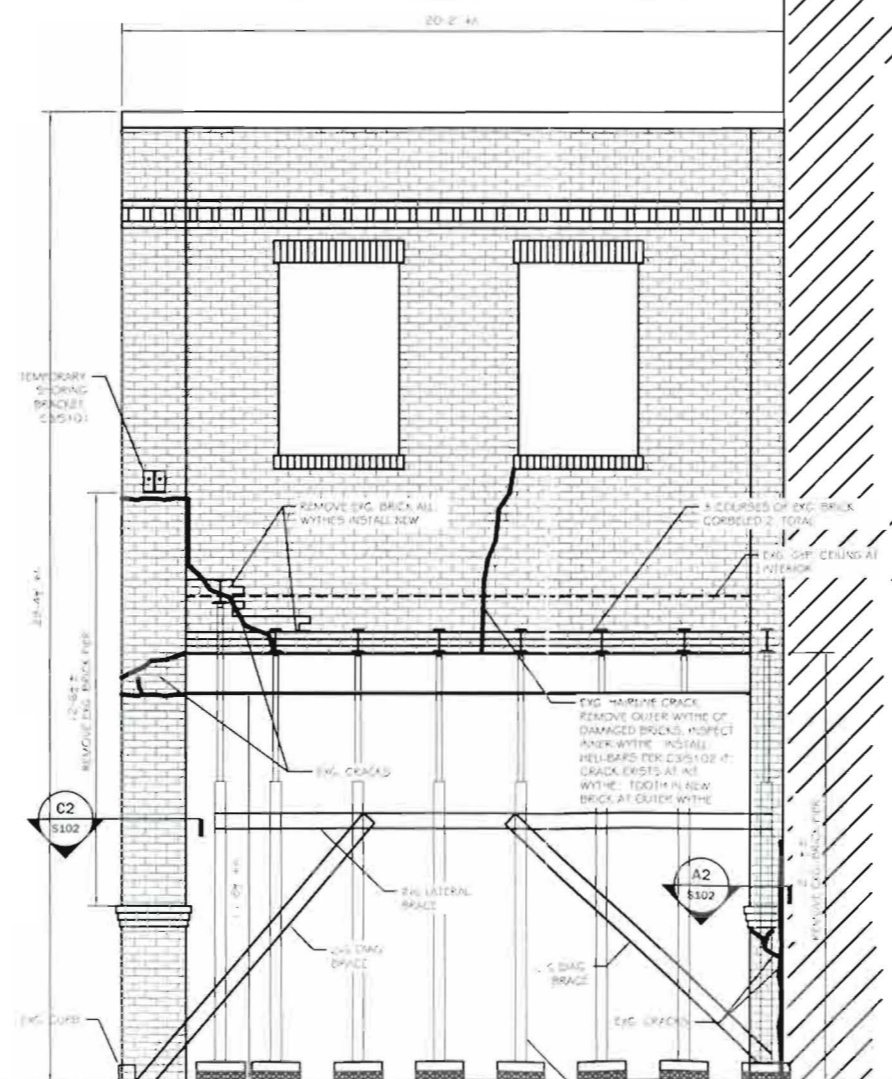
C2 POST SHORE BASE
SCALE: 1" = 1'-0"



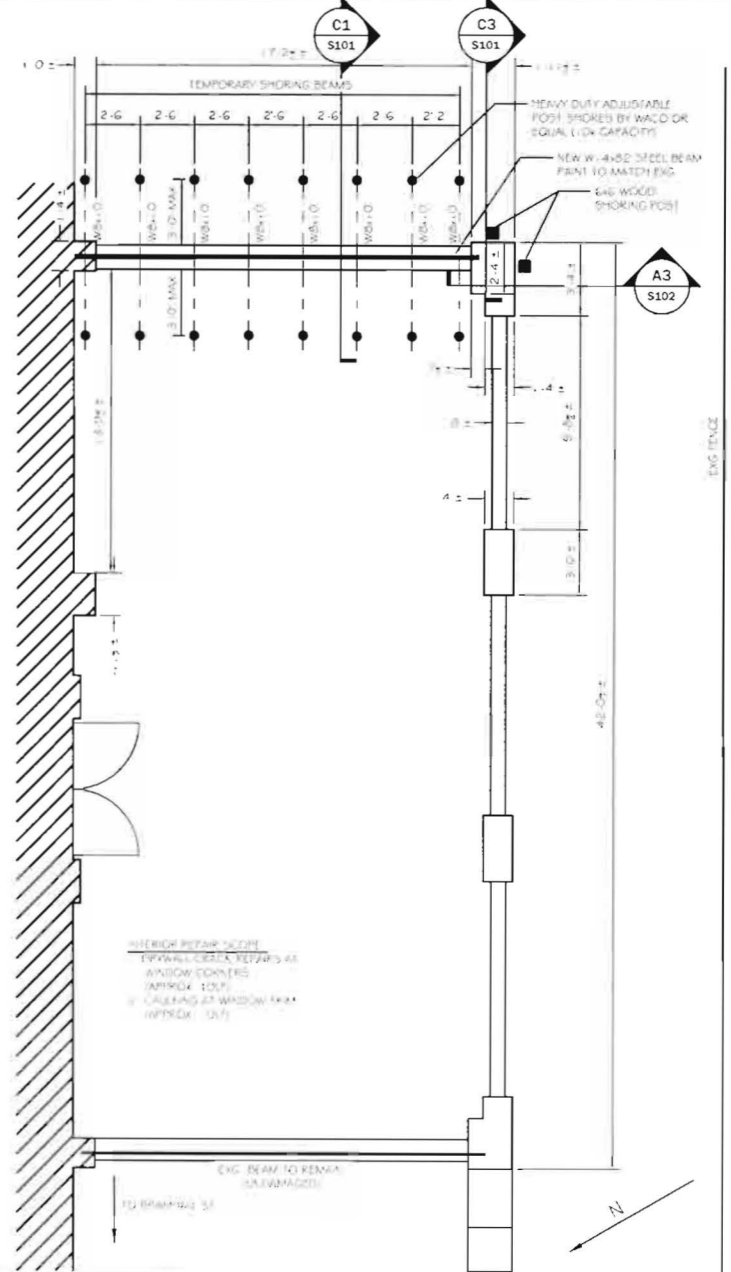
C1 SHORING SECTION
SCALE: 3/8" = 1'-0"



A3 SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



A2 EAST ELEVATION
SCALE: 3/8" = 1'-0"



A1 SHORING PLAN
SCALE: 3/8" = 1'-0"



ASSOCIATED DESIGN PARTNERS INC.
Office: (207) 878-1751
Fax: (207) 878-1788
E-Mail: adp@adpengineering.com
80 Leighton Road
Falmouth, Maine 04105

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PROJECT: 79 BRAMHALL ST.
PORTLAND, MAINE
FOR:
SHEET TITLE: EXG. CONDITIONS PLAN AND SECTIONS
ISSUED FOR PERMITTING

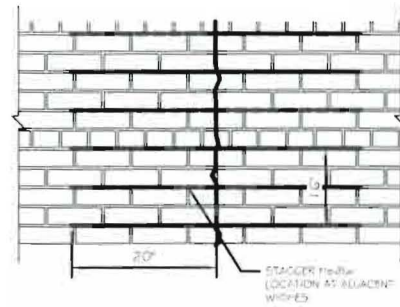
NO.	BY	DATE

DATE: 7-21-11
SCALE: AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 11112-S101.DWG
PROJECT NUMBER:
11112
SHEET NO:
S101

METHOD STATEMENT

- Using a twin-bladed diamond-tipped wall chaser with vacuum attachment, cut slots into the horizontal mortar joints to the specified depth and at the required vertical spacing. Ensure that NO mortar is left attached to the exposed brick surfaces in order to provide a good masonry/grout bond.
- Remove ALL dust and mortar from the slots and thoroughly flush with water. Where the substrate is very absorbent or flushing with water is inappropriate, use Heliflame WB. Ensure the slots are damp or primed prior to commencing Step 5.
- Mix HelifBond cementitious grout using a power mixer and load into the Helifix Porting Gun CS.
- Fit the appropriate mortar nozzle.
- Inject a bead of HelifBond grout, approx. 1/2" deep, into the back of the slot.
- Push the 1/2" HelifBar into the grout to obtain good coverage.
- Inject a second bead of HelifBond grout over the exposed HelifBar and iron it into the slot using a finger trowel. Inject additional HelifBond as necessary, leaving a 1/2" gap for new pointing.
- The crack within the wall should be weather-proofed using an appropriate Helifix bonding agent e.g. HelifBond or CrackBond, depending on the width of the crack and the surface made good or left ready for any decoration.
- Clean tools with clean, fresh water.

N.B. Pointing may be carried out as soon as is convenient after the HelifBond has started to gel.



RECOMMENDED TOOLING

- For cutting slots up to 1/2" deep: Twin bladed cutter with vacuum attachment
- For mixing HelifBond: 1/2" jaw chuck air drill mixing paddle
- For injection of HelifBond into slots: Helifix Porting Gun CS with mortar nozzle
- For smoothing pointing: Skinning finger trowel

Specification Notes

- The following criteria are to be used unless specified otherwise:
- Depth of slot into masonry to be 1/2" to 3/4"
 - Height of slot to be equal to full mortar joint height, with a minimum of 1/2" for the mortar joint thickness, refer to the Helifix Technical Data.
 - HelifBar to be long enough to extend a minimum of 12" on either side of the crack or 12" beyond the outer stacks if two or more adjacent cracks are being treated along one row.
 - Normal vertical spacing is 24" (16 brick courses).
 - Where a crack is less than 1/2" from the end of a wall or an opening the HelifBar is to be compared for fit and if it should fit, it should be cut and bonded into the existing wall or post back and bent into the masonry, avoiding any DPC membrane.
 - In all situations around the masonry is well wetted or primed to prevent premature setting of the HelifBond due to dry air substrate, notably loadbearing walls of the wall, or priming with HelifPrime WB, except for vertical walls prior to injecting the HelifBond grout.
 - To not use HelifBond until the air temperature is 40°F (4°C) and falling or apply over 40° in situations the site will be disruptive, damp or brackish prior to injection of the HelifBond-grout.

The above specification notes are for the general guidance only and Helifix reserves the right to amend details/notes as necessary.

GENERAL NOTES

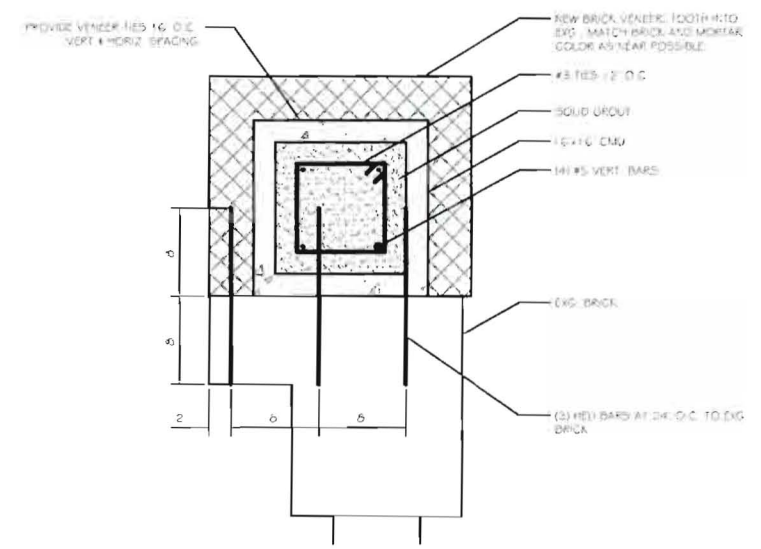
- For your application refer to our Helifix manual or your nearest Helifix office for your particular project, call the Helifix Technical Sales Team on 0203 8755 3222. Our Technical Department can provide you with a full support service including:
 - Advice, assistance and recommendations on all structural repair matters.
 - Design and preparing complete repair proposals for specific situations.
 - An insurance-backed warranty via our Approved Insolvency Insurers.

C2

C2

PILASTER 1 REPAIR

SCALE: 1/2" = 1'-0"

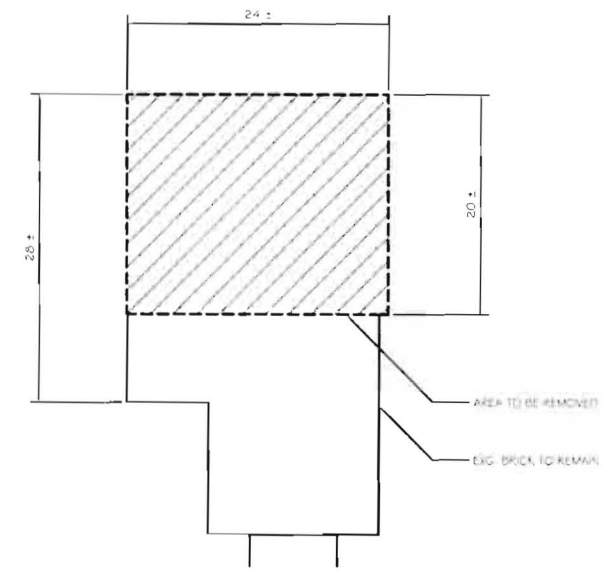


C1

C1

PILASTER 1 DEMO PLAN

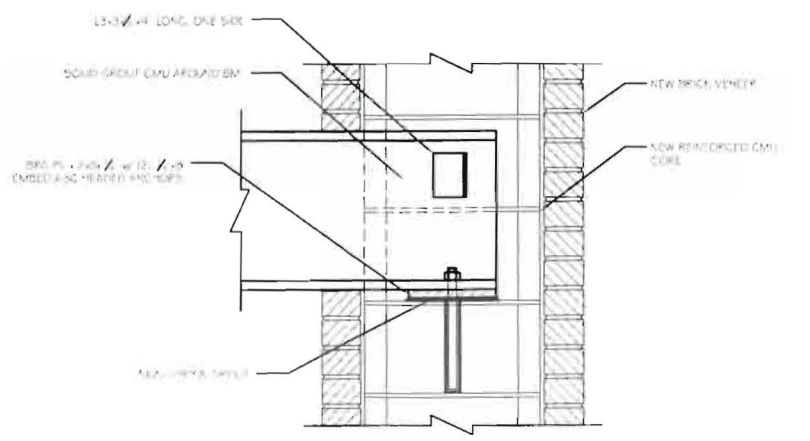
SCALE: 1/2" = 1'-0"



B3

HELI-BAR CRACK REINFORCING

SCALE: NTS



A3

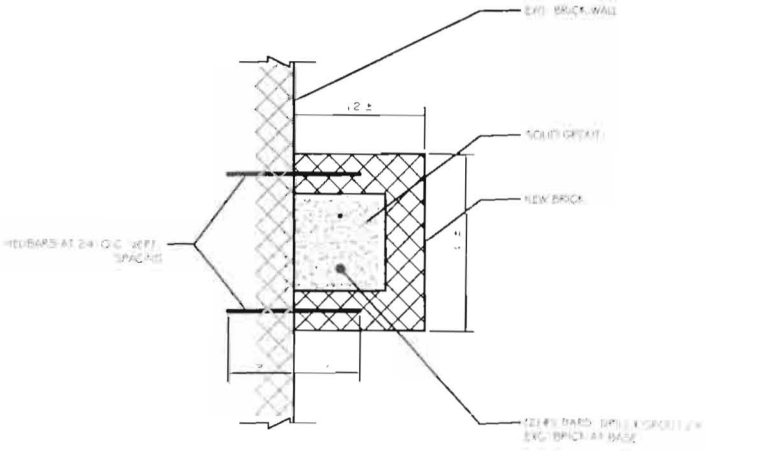
BEAM BEARING DETAIL

SCALE: 1/2" = 1'-0"

A2

PILASTER 2 REPAIR

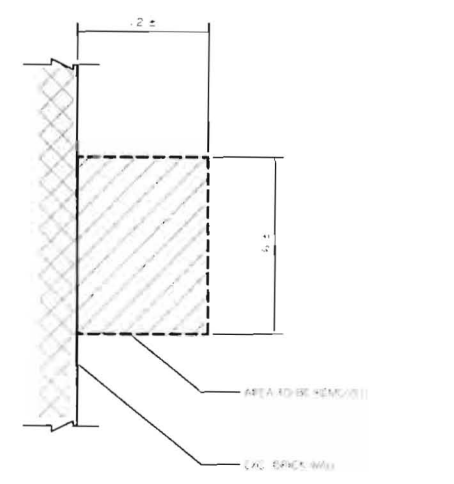
SCALE: 1/2" = 1'-0"



A1

PILASTER 2 DEMO PLAN

SCALE: 1/2" = 1'-0"



ASSOCIATED DESIGN PARTNERS INC.
 Office: (207) 878-1751
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 E-Mail: adp@adpengineering.com
 80 Leighton Road
 Falmouth, Maine 04105

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PROJECT: 79 BRAMHALL ST.
 PORTLAND, MAINE
 FOR: [REDACTED]
 SHEET TITLE: REPAIR DETAILS
 ISSUED FOR PERMITTING

NO.	BY	DATE	REVISIONS	DESCRIPTION

DATE: 7-21-11
 SCALE: AS NOTED
 DESIGN BY: ASW
 DRAWN BY: RSC
 FILE #: 11112-S101.DWG
 PROJECT NUMBER:
11112
 SHEET NO:
S102

GENERAL STRUCTURAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES INCLUDING BUT NOT LIMITED TO:
 - (B) BUILDING CODE 2009 ED
 - ANSI/ASCE 7-05
 - ACI 318.05 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
 - ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
 - AISC STEEL CONSTRUCTION MANUAL, 9TH ED ASD
 - AISC 360.3 FORCED STEEL DESIGN MANUAL
 - AND ASEA 905-2005
2. ROOF DESIGN LOADS

SNOW LOAD	42 PSF + DRIFT
DEAD LOAD	15 PSF
TOTAL ROOF LOAD	57 PSF + DRIFT
3. WIND LOADS: BASED ON WIND SPEED OF 100 MPH. V₁₀ = 1.0 SIMPLIFIED PROCEDURE.
4. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS AND ALSO ANY CONDITIONS THAT PREVENT THE CONTRACTOR'S COMPLETION OF THE WORK AS SHOWN ON THE CONSTRUCTION DRAWINGS.
5. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN THE STATE IN WHICH THE PROJECT IS LOCATED.
6. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.
7. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
8. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON ANY DRAWING SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.
9. THESE DRAWINGS DO NOT SHOW SIZE, LOCATION OR TYPE OF OPENING IN THE FOUNDATION SYSTEM FOR ELECTRICAL, PLUMBING OR MECHANICAL EQUIPMENT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THESE ITEMS.
10. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY.

STRUCTURAL STEEL NOTES

- PART 1 - GENERAL
- 1.00 STANDARD SPECIFICATIONS
 - A. FABRICATION, ERECTION, AND WELDING, IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN ADOPTED JUNE 1989, INCLUDING ALL PUBLISHED SUPPLEMENTS. A 1.3 C.
 - B. WELDING IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, AWS D1.1, LATEST EDITION.
 - C. BOLTING OF STRUCTURAL JOINTS SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, LATEST EDITION.
 - 1.01 QUALIFICATIONS
 - A. WELDING PROCEDURES, WELDERS, WELDING OPERATIONS AND TACKING, QUALIFIED IN ACCORDANCE WITH AWS CODE.
 - 1.02 SUBMITTALS
 - W/OPTIONALLY LEFT BLANK
 - 1.03 PRODUCT HANDLING
 - A. STORE STRUCTURAL STEEL MEMBERS AT THE PROJECT SITE ABOVE GROUND ON PLATFORMS, SKIDS, OR OTHER SUPPORTS.
 - B. PROTECT STEEL FROM CORROSION.
- PART 2 - PRODUCTS
- 2.01 MATERIALS
 - A. STEEL W/FRIC SHAPES - ASTM A992
 - B. STEEL BARS, PLATES, ANGLES - ASTM A36
 - C. STRUCTURAL TUBES AND COLUMNS - ASTM A500, GRADE B
 - D. STRUCTURAL PIPE - ASTM A513, TYPE E, GRADE B, SCHEDULE 40
 - E. HIGH STRENGTH BOLTS - ASTM A325, TYPE 1 OR 2
 - F. WANCHER BOLTS - ASTM A 307, GRADE A
 - G. THREADED ROD - ASTM A36
 - H. WELDING TO BE PERFORMED WITH 1/16" WIRE OR EQUIVALENT
 - 2.01 FABRICATION
 - A. FABRICATE STRUCTURAL STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND THIS SECTION OF THE SPECIFICATIONS.

STRUCTURAL STEEL CONT.

- 3.02 ERECTION
 - A. THE STRUCTURAL METAL SHALL BE ERECTED PLUMB AND TRUE TO THE LINES AND ELEVATIONS INDICATED ON THE DRAWINGS.
 - B. ERECTION TOLERANCES SHALL BE WITHIN THE LIMITS SPECIFIED IN SECTION 7.1.1 OF THE AISC CODE OF STANDARD PRACTICE.
 - C. TEMPORARY CONNECTIONS SHALL BE ADEQUATE TO SAFELY SUPPORT ALL DEAD LOAD AND ERECTION APPLIED STRESSES.
 - D. TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO HOLD THE STEEL IN A HORIZONTAL AND VERTICAL PLANE UNTIL PERMANENT BOLTING HAS BEEN COMPLETED.
 - E. BOLTS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BROUGHT TO TIGHT CONDITION. ALL PILES OF JOINTS SHALL BE IN CONTACT IN ACCORDANCE WITH SECTION 5.10 OF THE BOLT SPECIFICATION OF SECTION 1.01.0 OF THIS SPECIFICATION.
 - F. ENLARGEMENT OF HOLES BY BURNING WITH A TORCH SHALL NOT BE ALLOWED. ALL STEEL WITH BURNED HOLE ENLARGEMENTS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

3.03 PAINTING

- A. SHOP PAINT PREPARED SURFACES OF ALL STEEL WORK WITH FABRICATORS STANDARD RUST INHIBITIVE PAINT, MINIMUM 2.0 MIL THICKNESS, COMPATIBLE WITH BARE COAT.
- B. SURFACE PREPARE ALL FABRICATED STEEL TO RECEIVE SHOP PRIME (ONLY) TO A MINIMUM OF HAND TOOL CLEAN OR EQUIVALENT AS DICTATED BY CONDITION OF PRODUCT AT TIME OF PAINTING.

CLAY MASONRY

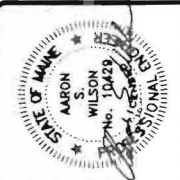
PART 1 - GENERAL

- 1.1 SUMMARY
 - A. THIS SECTION INCLUDES CUTTING AND PATCHING OF EXISTING CLAY MASONRY.
- 1.2 DELIVERY, STORAGE, AND HANDLING
 - A. DELIVER OTHER MATERIALS TO PROJECT SITE IN MANUFACTURERS ORIGINAL AND UNOPENED CONTAINERS, LABELED WITH TYPE AND NAME OF PRODUCTS AND MANUFACTURERS.
 - B. STORE CEMENTITIOUS MATERIALS OFF THE GROUND, UNDER COVER, AND IN A DRY LOCATION.
 - C. STORE MISCELLANEOUS COVERED AND IN A DRY LOCATION. WHITE GRADING AND OTHER REQUIRED CHARACTERISTICS CAN BE MAINTAINED AND CONTAMINATION AVOIDED.
 - D. COMPLY WITH MANUFACTURERS WRITTEN INSTRUCTIONS FOR MINIMUM AND MAXIMUM TEMPERATURE REQUIREMENTS FOR STORAGE.
- 1.3 PROJECT CONDITIONS
 - A. DO NOT REPAIR MORTAR JOINTS OR REPAIR MASONRY UNLESS AIR TEMPERATURE IS BETWEEN 40 AND 80 DEG F (4 AND 27 DEG C), AND WILL REMAIN SO FOR AT LEAST 48 HOURS AFTER COMPLETION OF WORK.
 - B. COLD WEATHER REQUIREMENTS: COMPLY WITH THE FOLLOWING PROCEDURES FOR MASONRY REPAIR AND MORTAR JOINT POINTING WHEN AIR TEMPERATURE IS BELOW 40 DEG F (4 DEG C). HEAT MORTAR INGREDIENTS, MASONRY REPAIR MATERIALS, AND EXISTING MASONRY WALLS TO PRODUCE TEMPERATURES BETWEEN 40 AND 120 DEG F (4 AND 49 DEG C).
 - 2. WHEN MEAN DAILY AIR TEMPERATURE IS BETWEEN 25 AND 40 DEG F (MAYUS 4 AND 4 DEG C), COVER COMPLETED WORK WITH WEATHER RESISTANT INSULATING BLANKETS FOR 48 HOURS AFTER REPAIR AND POINTING.
 - 3. WHEN MEAN DAILY AIR TEMPERATURE IS BELOW 25 DEG F (MAYUS 4 DEG C), PROVIDE ENCLOSURE AND HEAT TO MAINTAIN TEMPERATURES ABOVE 32 DEG F (0 DEG C) WITHIN THE ENCLOSURE FOR 48 HOURS AFTER REPAIR AND POINTING.
 - C. HOT WEATHER REQUIREMENTS: PROTECT RESTORATION WORK WHEN TEMPERATURE AND HUMIDITY CONDITIONS PRODUCE EXCESSIVE EVAPORATION OF WATER FROM MORTAR AND SETTING MATERIALS; PROVIDE ARTIFICIAL SHADE AND WIND BREAKS, AND USE COOLED MATERIALS AS REQUIRED. DO NOT APPLY MORTAR TO SUBSTRATES WITH TEMPERATURES OF 30 DEG F (32 DEG C) AND ABOVE.
 - D. PREVENT GROUT OR MORTAR USED IN REPOINTING AND REPAIR WORK FROM STAINING FACE OF SURROUNDING MASONRY AND OTHER SURFACES IMMEDIATELY REMOVE GROUT AND MORTAR IN CONTACT WITH EXPOSED MASONRY AND OTHER SURFACES.
 - E. PROTECT SILLS, LEDGES, AND PROJECTIONS FROM MORTAR DROPPINGS.
- 2.1 PRODUCTS
 - 2.1 MASONRY MATERIALS
 - A. PROVIDE NEW UNITS WITH COLOR, SURFACE TEXTURE, SIZE, AND SHAPE TO MATCH EXISTING BRICK WORK AND WITH PHYSICAL PROPERTIES NOT LESS THAN THOSE DETERMINED FROM PRECONSTRUCTION TESTING OF SELECTED EXISTING UNITS.

MASONRY, CONT.

- 2.2 MORTAR MATERIALS
 - A. PORTLAND CEMENT - ASTM C 150, TYPE I
 - B. HYDRATED LIME - ASTM C 207, TYPE S
 - C. AGGREGATE FOR MORTAR - ASTM C 144
 - 1. MATCH SIZE, TEXTURE, AND GRADATION OF EXISTING MORTAR AS CLOSELY AS POSSIBLE.
 - 2. WATER: NOTABLE.
- 2.3 MORTAR MIXES
 - A. MORTAR ANALYSIS: OBTAIN A MORTAR ANALYSIS FROM INDEPENDENT SOURCE SO THAT NEW MORTAR MIX WILL MATCH EXISTING.
 - B. MEASUREMENT AND MIXING: MEASURE CEMENTITIOUS AND AGGREGATE MATERIAL IN A DRY CONDITION BY VOLUME OR EQUIVALENT WEIGHT. DO NOT MEASURE BY SHOVEL. USE KNOWN MEASURE. MIX MATERIALS IN A CLEAN, MECHANICAL BATCH TUB.
 - C. MIXING: POINTING MORTAR: THOROUGHLY MIX CEMENTITIOUS AND AGGREGATE MATERIALS TOGETHER BEFORE ADDING ANY WATER. THEN MIX AGAIN ADDING ONLY ENOUGH WATER TO PRODUCE A DAMP UNWORKABLE MIX THAT WILL RETAIN ITS FORM WHEN PRESSED INTO A BALL. MAINTAIN MORTAR IN THIS DAMPPED CONDITION FOR 1 TO 2 HOURS. ADD REMAINING WATER IN SMALL PORTIONS UNTIL REACHING MORTAR OF THE DESIRED CONSISTENCY. USE MORTAR WITHIN 30 MINUTES OF FINAL MIXING. DO NOT RETEMPER OR USE PARTIALLY HARDENED MATERIAL.
 - D. DO NOT USE ADMIXTURES OF ANY KIND IN MORTAR, UNLESS OTHERWISE INDICATED.
 - E. MORTAR PROPORTIONS: MIX MORTAR MATERIALS IN THE FOLLOWING PROPORTIONS, OR IN CONFORMANCE WITH MORTAR ANALYSIS PROPORTIONS.
 - 1. POINTING MORTAR FOR BRICK: 1 PART PORTLAND CEMENT, 6 PARTS LIME, AND 1 1/2 PARTS COARSE OR NATURAL MORTAR AGGREGATE.
 - 2. REBUILDING MORTAR: SAME AS POINTING MORTAR.
- PART 3 - EXECUTION
 - 3.1 BRICK REMOVAL AND REPLACEMENT
 - A. CAREFULLY REMOVE BY HAND, AT LOCATIONS INDICATED, BRICKS THAT ARE DAMAGED, SPALLED, OR DEFORMED. CUT OUT FULL UNITS FROM JOINT TO JOINT AND IN A MANNER TO PERMIT REPLACEMENT WITH FULL-SIZE UNITS WITHOUT DAMAGING SURROUNDING MASONRY.
 - B. SUPPORT AND PROTECT REMAINING MASONRY THAT SURROUNDS REMOVAL AREA. MAINTAIN FLASHING, REINFORCEMENT, LINTELS, AND ADJOINING CONSTRUCTION IN AN UNDAMAGED CONDITION.
 - C. REMOVE MORTAR, LOOSE PARTICLES, AND SOIL FROM SALVAGED BRICK BY CLEANING WITH BRUSHES AND WATER. STORE BRICK FOR REUSE.
 - D. CLEAN REMAINING BRICK AT EDGES OF REMOVAL AREAS BY REMOVING MORTAR, DUST, AND LOOSE PARTICLES IN PREPARATION FOR REPLACEMENT.
 - E. INSTALL NEW OR SALVAGED BRICK TO REPLACE REMOVED BRICK. FIT REPLACEMENT UNITS INTO BONDING AND COLORING PATTERN OF EXISTING BRICK. IF CUTTING IS REQUIRED, USE A MOTOR-DRIVEN SAW DESIGNED TO CUT MASONRY WITH CLEAN, SHARP, UNCHIPPED EDGES.
 - F. LAY REPLACEMENT BRICK WITH COMPLETELY FILLED BED, HEAD, AND COLLAR JOINTS. BUTTER ENDS WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE. WET CLAY BRICKS THAT HAVE ASTM C 67 INITIAL RATES OF ABSORPTION (DUCTIONS OF MORE THAN 30 G PER 30 SQ IN PER MIN. (30 G PER 104 SQ CM PER MIN.)) USE WETTING METHODS THAT ENSURE UNITS ARE NEARLY SATURATED BY SURFACE DRY WHEN LAY. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING UNITS.
 - 1. TOOL EXPOSED MORTAR JOINTS IN REPAIRED AREAS TO MATCH JOINTS OF SURROUNDING EXISTING BRICKWORK.
 - 2. RAKE OUT MORTAR USED FOR LAYING BRICK BEFORE MORTAR SETS AND POINT NEW MORTAR JOINTS IN REPAIRED AREA TO COMPLY WITH REQUIREMENTS FOR REPOINTING EXISTING MASONRY.
 - 3.2 FINISH CLEANING
 - A. AFTER MORTAR HAS FULLY HARDENED, THOROUGHLY CLEAN EXPOSED MASONRY SURFACES OF EXCESS MORTAR AND FOREIGN MATTER. USE STIFF NYLON OR FIBER BRUSHES AND CLEAN WATER. SPRAY APPLIED AT A LOW PRESSURE.
 - B. DO NOT USE METAL SCRAPPERS OR BRUSHES.

END OF SECTION



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PROJECT: 79 BRAMHALL ST.
PORTLAND, MAINE
FOR:

SHEET TITLE:
NOTES
ISSUED FOR PERMITTING

NO.	BY	DATE

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