

August 31 2007

Addendum Number One

To

Drawings and Specifications Dated August 17, 2007

Portland Harbor Hotel Annex

468-470 Fore Street

Portland, ME

By

Archetype, P.A.

48 Union Wharf

Portland, Maine 04101

This addendum modifies, amends and supplements designated parts of the Contract Documents, Project Manual and Drawings for the Portland Harbor Hotel Annex and is hereby made an integral part thereof by reference and shall be as binding as though inserted in its entirety in the locations specified herein. It shall be the responsibility of the Contractor to notify all Subcontractors and suppliers he/she proposes to use for the various parts of the work of any changes or modifications contained in this addendum.

MODIFICATION/AMENDMENT/CLARIFICATION TO THE DRAWINGS

1. **Modification:** Sheet 4.01 – Wall Types; Changes to wall type W3. W3 Item 3 – Cementitious Backer Units: replace reference to “Durock Exterior Cement Board” with words “DensGlass Gold Exterior Sheathing”.
2. **Modification:** Sheet 4.01 – Wall Types; Changes to wall type W5. Title should read “W5 – 1 Hour Rated Exterior Lead-Coated Copper Siding Wall”. W5 Item 3 – Cementitious Backer Units: replace reference to “Durock Exterior Cement Board” with words “DensGlass Gold Exterior Sheathing”. W5 Item 8: delete words “15# felt”. Should read “Red Rosin Paper”. Red Rosin Paper is to be used behind ALL lead-coated copper siding.
3. **Modification:** Sheet 4.01 – Wall Types; Changes to wall type W9. W9 Item 1 – Cementitious Backer Units: replace reference to “Durock Exterior Cement Board” with words “DensGlass Gold Exterior Sheathing”.
4. **Clarification:** Sheet A5.03 – Details; See accompanying drawing **AD1.1 – Plan Detail North Elevation** for additional detail 11/A5.03 for connection of new north façade curtain wall to existing brick wall.
5. **Clarification:** Sheet A5.03 – Details; See accompanying drawing **AD1.2 – Sill Detail Granite Wall** for additional detail 12/A5.03 for granite panel sill detail.
6. **Modification:** Sheet A1.01 – Lower Level Floor Plan; Delete mechanical shaft in North-East corner of new building – this floor only. Shaft shall begin at Ground Floor level and continue through roof. Coordinate with mechanical drawings for venting and any rooftop appurtenances associated with this shaft. The roof drain leader located in

this shaft will move over to run alongside column A2 in order to access underground storm sewer.

7. **Modification & Clarification:** Sheet A1.05 – Third Floor Plan, Rooftop Mechanical Equipment Screen; see attached drawings **AD1.3 – Rooftop Screen Plan**, and **AD1.4 – Section Detail Screen Wall**, for location, dimension and construction of screen wall around mechanical equipment. Note changes to exterior siding materials on elevator and stair shaft walls as related to location and orientation of screen wall. All siding that will be visible from the street level shall be lead-coated copper. The remainder will be finished with E.I.F.S.
8. **Modification:** Sheet A1.05 – Third Floor Plan and Sheet A1.06 – Roof Plan; See attached drawing **AD1.5 – Alternating Tread Stair** for details to add a painted steel alternating tread stair for access to upper roof from lower roof at south side.
9. **Modification & Clarification:** Sheet A3.11 – Stair One Sections and Details; see attached drawings **AD1.6, AD1.7 and AD1.8 – Revised Details Stair One**. General Modification: Details 6-10/A3.11 – Delete reference to “galvanized” steel pipe rail. Rail shall be painted steel schedule 40, 1 ½” pipe. Clarification of dimensions for C-3 block wall at top of existing parapet, additional riser at roof landing to allow for one riser height above finished roof deck, and addition of steel connection detail for attachment of pipe rail to existing brick wall. Note the modification of finish material, also noted on AD1.3 – Rooftop Screen Plan, at exterior of stair and elevator shaft walls. Where shown, EIFS finish will be used on the walls, and lead-coated copper will be used on faces which are visible from the street. **Demolition sub-contractor note:** Detail 1/AD1.6 note references, “Cut brick corbelling back to depth of main brick wall to allow for continuous vertical connection of steel stud wall – typical all levels – cut to width to allow for stud and two layers of gyp both sides (8” total width, plus room for installation)”. This drawing shall be coordinated with, and included in its entirety with the demolition drawings.
10. **Clarification:** Sheet A5.03 – Details; see attached drawing **AD1.9 – Plan Detail Granite Wall Entry Vestibule** for clarification of anchors for granite panels, shapes labeled ‘A’, ‘B’ and ‘C’.
11. **Modification:** Sheet A7.01 – Door Schedule; Add “Smoke Seal Gaskets” to all doors on corridors. Change Door 001, Lower Level Entry door to “Aluminum”. Delete 3-hour doors on hold-backs at elevator shaft doors in 470 Fore Street (Akari side). This includes doors 006, 205 and 307. 3-Hour doors on Portland Harbor Hotel side to remain. Added reference to paint finish on doors as shown on schedule. See **AD1.10 – Door Schedule** for changes.
12. **Modification:** Sheet A5.01 – Storefront Details; see attached drawing **AD1.11 – Signage Details** for location and detailing of three signs to be located as shown. These signs shall be coordinated with E1.2 (also attached) for location and materials to be provided by electrical contract for power and installation of lights as shown.
13. **Modification:** Add to drawing set attached sheet **E1.1 – Lighting Plan Ground Floor**, sheet **E1.2 – North Elevation Lighting** and accompanying table of fixtures (3 sheets). These lights and locations are to be carried by electrical subcontractor and associated work for preparation is to be coordinated by General Contractor.
14. **Modification:** Sheets S3 through S7 – Structural Framing Plans; see attached drawings **AD1.12, AD1.13, AD1.14, AD1.15, AD1.16 – Structural Framing Plans** for

modification to floor framing in 470 Fore Street. These drawings shall also be used for the description of the extent of demolition on drawings sheets A0.10 through A0.15 – Demolition Plans. **Demolition sub-contractor note:** Demolition contractor is responsible for all floor framing demolition and wall demolition required for the installation of new framing as depicted on the attached addendum drawings. These drawings shall be coordinated with, and included in their entirety with the demolition drawings.

15. **Modification:** Sheet A5.03 – Details; see attached drawing **AD1.19 – Spandrel Panel Curtain Wall** and **AD1.20 – Spandrel Detail at Vestibule Entry** for reference to change the words “cement backer board” to read “(2) layers ½” fire retardant plywood”. The two layers of plywood will be sandwiched together and inserted into the aluminum framing system at the spandrel locations and caulked and sealed into the curtain wall. The lead coated copper shall be attached to the fire retardant plywood between the aluminum mullion caps. See attached Specification Section 06073 – Fire Retardant Treatment “D-Blaze”.
16. **Modification:** Sheet S8 – Foundation Details; see attached drawing **AD1.21 – Retaining Wall Detail** for alteration to detail for the North Retaining Wall and the modification of the drainage material sandwiched between the existing and the new retaining walls.
17. **Modification:** Sheet 1 – Site Plans, Existing Conditions and Demolition Plan by DeLUCA Hoffman shall have the following modifications: Contractor shall carry materials and labor for the installation of a 4” perimeter drain around the entirety of the footprint at 468 Fore Street and shall tie this drain into the catch basin at the south of the site. See attached drawing **AD1.22 – Raised Landscape Planter Detail** for materials and construction of the raised planter bed on the West Façade of 470 Fore St. This planter shall have installed a drip irrigation system.
18. **Modification:** Sheet S9 – Structural Framing Details; see attached drawings **AD1.17 – Ledger Detail** and **AD1.18 – Brick Bearing Ledge Detail** for changes to framing details in the renovation and reframing of 470 Fore Street (Akari Building).
19. **Modification:** Sheet A7.01 – Schedules; see attached sheet **AD1.23 – Finish Schedule** for extent of painting in existing and new spaces.
20. **Clarification:** Sheet S9 – Structural Framing Details; see attached drawings **AD1.24 – Column Splice Detail** for detail.
21. **Modification:** SHEET S5 - First Floor Framing Plan; change size of beam spanning from 2-A to 2-C from W12x26 to W14x30. Add HSS4x4x0.1875 at 2-B bearing on W14x30.
22. **Modificaiton:** SHEET S6 - 2ND and 3rd Floor Framing Plan; omit W12x26 spanning from 2-A to 2-C. Add HSS4x4x0.1875 at 2-B. Add W8x10 from 2-A to 2-B.
23. **Modification:** SHEET S7 - Roof Framing Plan; omit W12x26 spanning from 2-A to 2-C. Add HSS4x4x0.1875 at 2-B. Add W8x10 from 2-A to 2-B.
24. **Modification:** SHEET S9 - Column Schedule & Framing Details; Revise Column Schedule to indicate an HSS4x4x0.1875 at grid 2-B with bottom of Base Plate at elevation 113’-9” and top of column at elevation 146’-7”.

MODIFICATION/AMENDMENT/CLARIFICATION TO THE TECHNICAL SPECIFICATIONS

1. **Modification:** Add Specification Section 06073 - Fire Retardant Plywood, in its entirety. Attachment follows.
2. **Clarification:** Add Specification Section 07140 – Fluid Applied Membrane, in its entirety. Attachment follows.
3. **Modification:** Specification Section 08413 – Glazed Aluminum Curtain Walls, Part 3 – Execution, add the following text: “3.00 – Structural Design, A. Curtain Wall subcontractor is responsible for the engineering and design of, and provision for anchorage and connection details and materials for the attachment to the structural system as described in the architectural drawings and details”.
4. **Modification:** Specification Section 09900 – Painting; delete from the specification Section 1.1, B.4, “Painting and finishing any other work requiring finishing left unfinished by others”. This is clearly both vague and confusing. Our apologies.

RESPONSES TO SUBCONTRACTORS' QUESTIONS

A. New England Fireproofing, Inc.

Q1. It appears as though there is below grade, fluid applied waterproofing with rigid board insulation on the North, East and West foundation walls for the new addition, and not on the South side foundation wall. Is this correct?

A. Fluid applied waterproofing is required on foundations which extend above the lower level floor slab. The entirety of the south wall is below slab level, and does not need to be waterproofed. Specifications for the waterproofing are provided with this Addendum.

Q2. I see that 2” rigid board insulation will be used for the foundation waterproofing. Do you know if a drainage composite board will also be used in conjunction with the insulation board? They often are both used. And sometimes it is one or the other.

A. See AD1.21 – Retaining Wall Section Detail for the revised drainage mat at the retaining wall. All other surfaces, that is the foundation walls that extend above grade on the north-east and north-west corners, and the brick masonry walls of 470 Fore St that will be below grade are to receive the waterproofing specified above and described in the attached specification Section 07140.

B. Hahnel Bros. Co.

Q1. The drawings call for a ¾” exterior cement board under the lead coated copper. Is this a nailable substrate? The fasteners specified are annular ring nails.

A. Replace reference to “Durock” with “Densglass Gold Sheathing”. The Densglass will be used in applications where we have exterior gypsum on framing. The attachment will be through the Densglass and into the framing. In the curtain wall system spandrel panels we are changing the Durock to (2) layers of ½” ‘D-Blaze’ fire-retardant plywood. This material will accept the specified nails. See attached specification for fire retardant plywood.

Q2. The specifications call for 6" seam tape for the membrane roof system. Standard seam tape is 3" which is all the manufacturer will require for the specified warranty. Please clarify that they do indeed want to go with 6" tape.

A. Seam tape shall be as specified, 6" tape.

Q3. The spec calls for 25' or wider rolls of membrane (which will come with a fold). For the ease of installation and better final appearance on such small roof areas, will a standard 16' fold-free roll be acceptable?

A. Yes, 16' rolls will be accepted.

C. Southern Maine Sitework, Inc.

Q1. Will the bricks in the public sidewalk need to be reused or will new bricks be used?

A. Bricks in the public sidewalk will be re-used. Provide new bricks as necessary for replacement of unusable bricks and for filling in any locations where the existing bricks will not be sufficient.

D. James A. McBrady, Inc.

Q1. On drawing S6 there is a beam on the 2-line that is just hanging out into the building, is there additional framing around this?

A. See clarification and modification items 21 through 24 listed above in this addendum.

Q2. I'm assuming there is no column splice between the 3rd floor and the roof, is this correct?

A. This is correct.

Q3. Drawing A2.02 seems to show a 5-line guard rail. Would you like us to carry this?

A. The railing you are referring to is an existing railing and need not be carried.

E. Peerless Painting and Wallcovering

Q1. Note on A3.01 "existing space to remain unchanged". Any finishes? And does this include just the noted area?

A. See attached sheet AD1.23 – Finish Schedule for clarification.

Q2. When will there be a Room Finish Schedule provided?

A. Ditto.

Q3. Note on A2.02 re: allowance for windows. Does that refer to replacing? or rehabbing existing?

A. This will include both, actually. The window scope of work is negotiated and will be submitted as a complete package. Any painting required for windows and trims is to remain Not In Contract until the full interior finish package is released.

Q4. Where is the Wood Doors section of the spec book?

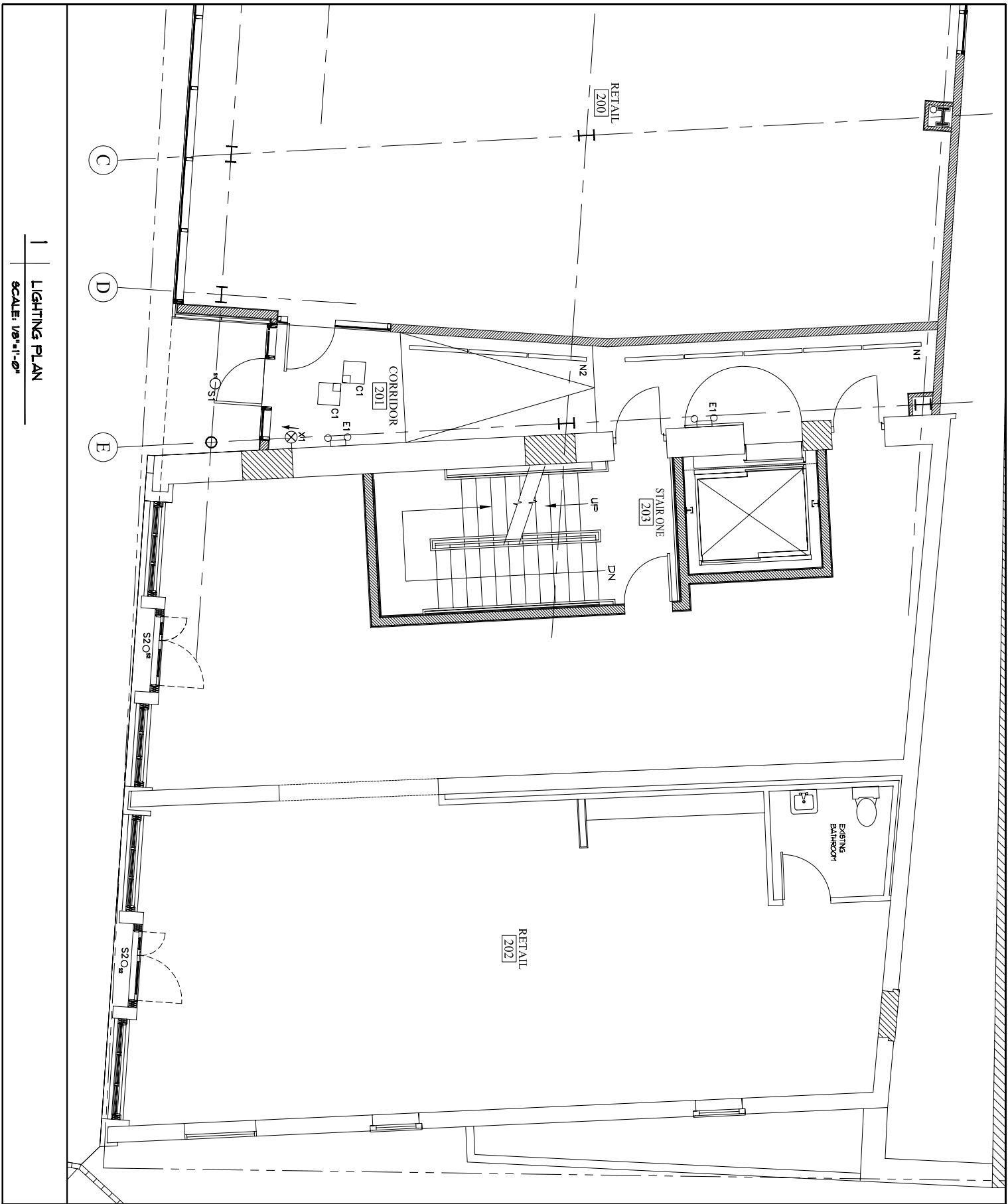
A. There is no wood door specification. For extent of painted wood doors, see drawing A5.01 – Wood Storefront.

Q5. Regarding the verbiage in 09900; B- 4 under 1.1 Description of Work- what exactly does this mean? clarify or omit please. B- 2- "etc." what does etcetera cover?

A. Omit verbiage.

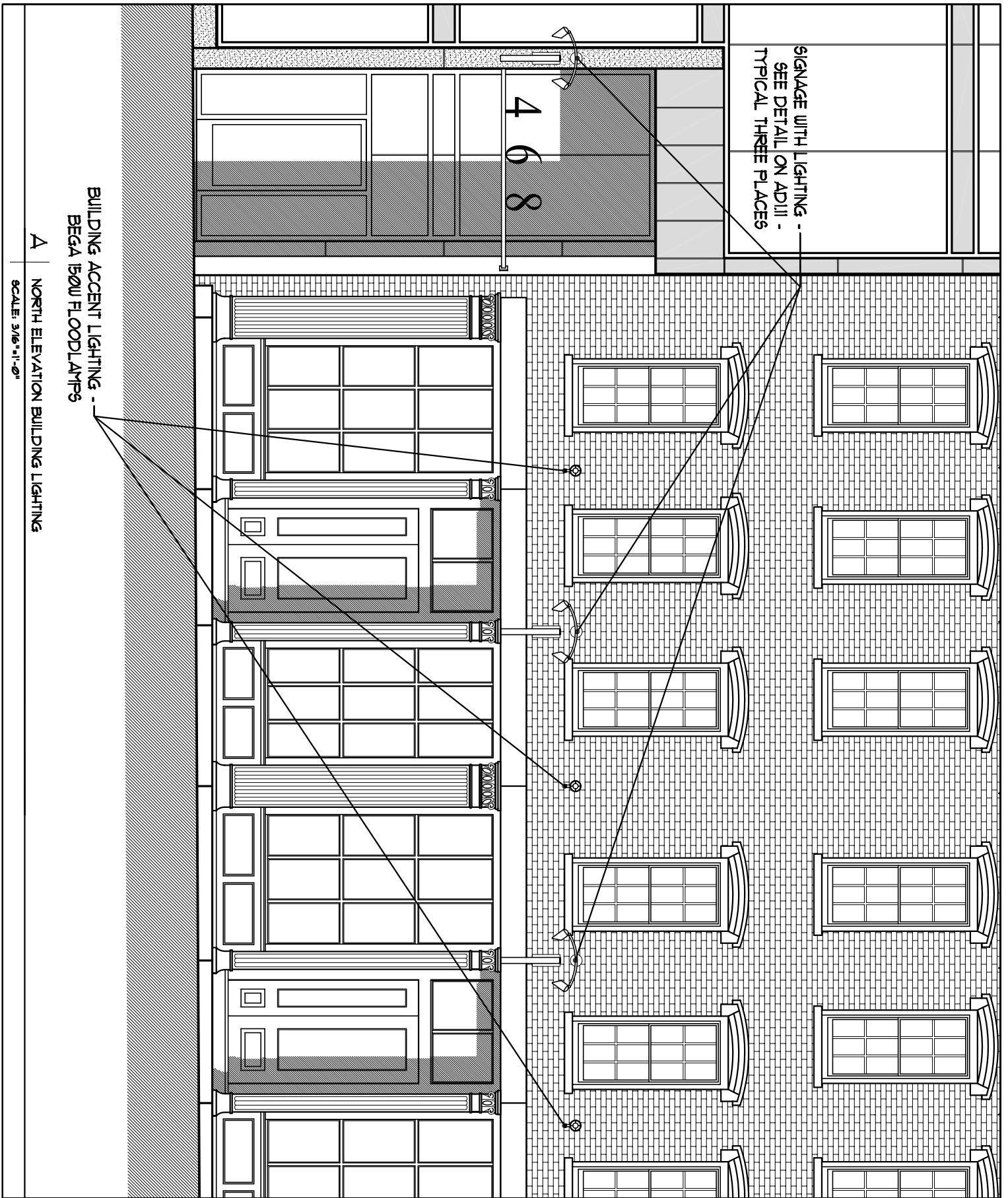
Portland Harbor Hotel Annex, 468-470 Fore St., Portland, ME

**- End of Section -
- Drawings and Attachments Follow -**



1 LIGHTING PLAN
 SCALE: 1/8"=1'-0"

<h1>E1.1</h1>	NEW DRAWING	Date 31 August 2007	Scale SEE DETAIL	ARCHETYPE, P.A. ARCHITECTS 48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056
	Project: PORTLAND HARBOR HOTEL ANNEX	ELECTRICAL LIGHTING PLAN		
	468-470 FORE STREET PORTLAND, MAINE			



SIGNAGE WITH LIGHTING -
SEE DETAIL ON ADJ1 -
TYPICAL THREE PLACES

4
6
8

BUILDING ACCENT LIGHTING -
BEGA ISOW FLOODLAMPERS

A | NORTH ELEVATION BUILDING LIGHTING

SCALE: 3/16"=1'-0"

<h1>E1.2</h1>	NEW DRAWING	Date 31 August 2007	Scale SEE DETAIL	ARCHETYPE, P.A. ARCHITECTS 48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056
	Project: PORTLAND HARBOR HOTEL ANNEX	NORTH ELEVATION BUILDING LIGHTING		
	468-470 FORE STREET PORTLAND, MAINE			

Floodlights for 150W PAR-38 lamps

Housing: One piece die cast aluminum with integral cooling vents.

Mounting: Die cast aluminum swivel with positive stainless steel lock-up can be locked in a fixed position and allows for horizontal and vertical adjustment. Provided with a stainless steel nipple threaded $\frac{1}{2}$ " I.P.S. for direct attachment to cast boxes or a selection of mounting accessories.

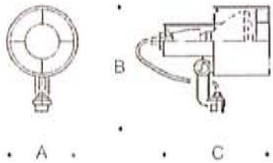
Louwer: Supplied with removable, die cast aluminum, "concentric ring" louwer for shielding and lamp protection.

Electrical: Lampholder is porcelain medium base with nickle plated copper screw shell supplied with 200°C high temperature leads, rated 600V. Molded, one piece high temperature silicone rubber "boot" seals lamp base to housing.

Finish: These luminaires are available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat (URO). To specify, add appropriate suffix to catalog number. For complete description of BEGA finishing process, refer to technical information section at end of catalog. Custom colors supplied on special order.

U.L. listed, suitable for wet locations and any mounting orientation. Protection class: IP 55.

Type:
 BEGA Product #: 7423
 Project:
 Voltage:
 Color: Black
 Options:
 Modified:



Die cast aluminum floodlight with stainless steel hardware. Fully adjustable 90° vertical, 360° horizontal rotation. Removable die cast aluminum concentric ring louwer provided. U.L. listed, suitable for wet locations. IP 55. Color: Standard BEGA finishes.



	Lamp	Lumen	A	B	C
9475	$\frac{3}{4}$ " I.P.S. 1 120W PAR-38	1800	5 $\frac{1}{4}$	7 $\frac{5}{8}$	8 $\frac{1}{8}$



3

BARI 130



BARI 130
Ceiling Mounted Luminaire

Precision machined cooling grooves and natural aluminum finish make the BARI family a perfect accent to contemporary architecture. Housing is machined from billet aluminum, then natural anodized. Standard housing has

matching trim ring, while optional offset glass or aluminum disk adds a diffusing element, or lamp cut-off. Additional luminaire sizes are available, scaled to meet a variety of applications. Hardware is stainless steel. Optional low

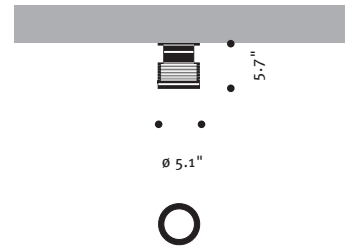
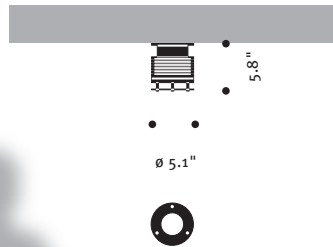
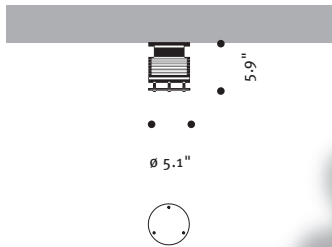
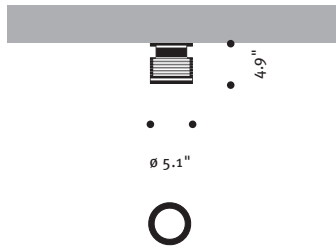
voltage model with perforated stainless steel insert and remote transformer is available. See technical data sheet for details.

 Listed for Damp Locations

BARI 130 A
Ceiling Mounted Luminaire

Same as BARI 130 except luminaire includes extension housing to allow power connection when recessed junction box is not available. Extension housing is finished to match luminaire, and may be used with all three Bari 130 models shown. See technical sheet for details.

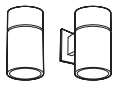
Model	Mounting	Lamp
BR130	Ceiling	75 / 50 Halogen
BR130G	Ceiling	75 / 50 Halogen
BR130M	Ceiling	75 / 50 Halogen
BR130A	Ceiling w/ extension	75 / 50 Halogen
BR130AG	Ceiling w/ extension	75 / 50 Halogen
BR130AM	Ceiling w/ extension	75 / 50 Halogen



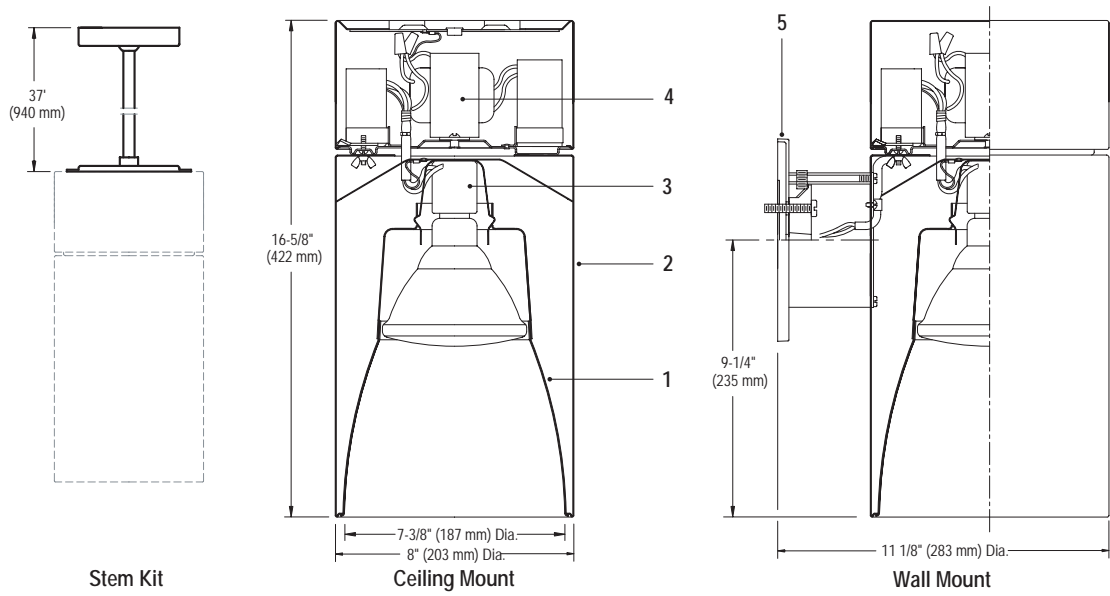
Design: Klaus Begasse

Phone: 864.487.3535 • Fax: 864.487.3175 • www.hessamerica.com

P.O. Box 28 • Gaffney, SC 29342-0028



Calculite® HID Surface Cylinder C7CS-P38MH



Reflector Trim		Cylinder Housing		Lamp		
C7P38MH	CL	Specular Clear, Minimal Flange	Ceiling-Mount	Wall-Mount		
	CCD	Comfort Clear Diffuse, Minimal Flange	C7CS70MHE1	C7CW70MHE1	Electronic 120V	70W PAR38 Ceramic MH
	CCZ	Champagne Bronze, Minimal Flange	C7CS70MHE2	C7CW70MHE2	Electronic 277V	70W PAR38 Ceramic MH
			C7CS10MHE1	C7CW10MHE1	Electronic 120V	100W PAR38 Ceramic MH
			C7CS10MHE2	C7CW10MHE2	Electronic 277V	100W PAR38 Ceramic MH
			C7CS70MHU	C7CW70MHU	Magnetic 120V/277V	70W PAR38 Ceramic MH
			C7CS10MHU	C7CW10MHU	Magnetic 120V/277V	100W PAR38 Ceramic MH

Features

- Reflector:** Low brightness with 45° cut-off to lamp and lamp image. Specular with minimal flange fits precisely into Cylinder housing.
- Cylinder Housing:** White painted seamless aluminum with groove designed to minimize visual appearance. Returned edge precisely seats reflector without visible hardware.
- Socket:** Medium base pulse rated socket with nickel plated screw shell. Special socket design in open rated fixtures accepts only open rated lamps. Snaps onto upper reflector for secure attachment without tools. Unitized construction assures proper lamp alignment to optics for consistent performance.
- Ballast:** Electronic or magnetic. Accessible for service and replacement.
- Back Plate:** Cast aluminum, suitable for mounting over 4" octagon outlet box.

Electrical

Electronic Ballast: 120V or 277V. Encased, high power factor, T.H.D. <15%, thermally and transient protected, RMI/RFI complies with FCC part 18 non-consumer limits, shut-down circuit at end of lamp life, sound rating "A", -5° F minimum starting temperature, Type 1 outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M143	120/277	0.67/0.28	78
100W MH	M90/M140	120/277	0.90/0.43	110

Magnetic Ballast: 120V/277V dual voltage, 60 Hz., core and coil, HX-HPF circuit type, high power factor, -20° F minimum starting temperature, Type 1 Outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M143	120/277	1.90/0.80	94
100W MH	M90/M140	120/277	2.40/1.10	125

Options and Accessories

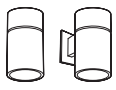
- C4CSW:** Stem Kit – White (45° Swivel, 37" long) Provide with 5/8" dia. Stem and 5 1/2" dia. Canopy. Self-aligning swivel provides max. 45° vertical tilting. Installs over 4" octagonal outlet box. Stem can be cut to length on site.
- Auxiliary Lighting:** Add suffix **A** to Cylinder Housing and Reflector Trim.

Labels

UL (Suitable For Wet Locations), CSA, I.B.E.W.

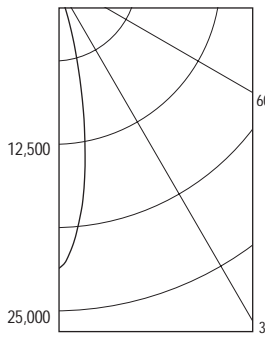
Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

LIGHTOLIER®



Calculite® HID Surface Cylinder C7CS-P38MH

70W PAR38, FLOOD, PHILIPS 3K MH LAMP, LUMEN RATING = 4800 LMS, ELECTRONIC AROMAT BALLAST CL FINISH TRIM



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	22077		45	59
5	19279	1769	55	0
10	13483		65	0
15	7146	2166	75	0
20	2784		85	0
25	721	513		
30	205			
35	85	64		
40	29			
45	1	6		
50	0			
55	0	0		
60	0			
65	0	0		
70	0			
75	0	0		
80	0			
85	0	0		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	4446	92.65	98.46
0-40	4510	93.97	99.86
0-60	4516	94.1	100
0-90	4516	94.1	100
40-90	6	0.13	0.14
60-90	0	0	0
90-180	0	0	0
0-180	4516	94.1	100

Coefficients of Utilization

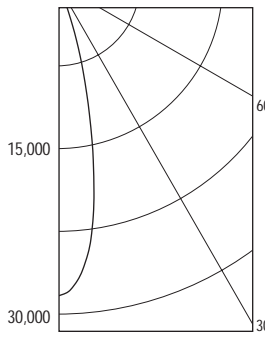
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	1.12	1.12	1.12	1.12	1.09	1.09	1.05	1.05	1.00	1.00	.94
1	1.09	1.07	1.06	1.05	1.06	1.03	1.02	1.00	.98	.97	.93
2	1.06	1.04	1.02	1.00	1.02	.99	.99	.96	.97	.94	.91
3	1.04	1.01	.98	.96	1.00	.96	.98	.94	.96	.93	.90
4	1.02	.98	.96	.94	.98	.93	.96	.92	.94	.91	.89
5	1.00	.96	.93	.91	.95	.91	.94	.90	.92	.89	.88
6	.99	.94	.91	.89	.94	.89	.93	.89	.92	.88	.87
7	.97	.92	.89	.87	.92	.87	.91	.87	.90	.86	.85
8	.95	.91	.88	.86	.90	.85	.89	.85	.89	.85	.84
9	.94	.89	.86	.84	.89	.84	.88	.84	.87	.84	.83
10	.92	.87	.85	.83	.87	.83	.87	.83	.86	.82	.82

LUMINAIRE INPUT WATTS = 78.0

** EFFICIENCY = 94.1% **
SC = .4

CERTIFIED TEST REPORT NO. 2419FR, DATE: JAN 26, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

100W PAR38, FLOOD, PHILIPS 3K MH LAMP, LUMEN RATING = 6800 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH TRIM



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	28361		45	231
5	26181	2386	55	0
10	19254		65	0
15	10393	3130	75	0
20	4124		85	0
25	1090	763		
30	291			
35	120	91		
40	47			
45	5	11		
50	0			
55	0	0		
60	0			
65	0	0		
70	0			
75	0	0		
80	0			
85	0	0		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	6278	92.33	98.41
0-40	6369	93.67	99.83
0-60	6380	93.82	100
0-90	6380	93.82	100
40-90	10	0.16	0.17
60-90	0	0	0
90-180	0	0	0
0-180	6380	93.82	100

Coefficients of Utilization

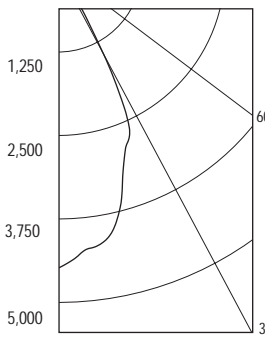
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	1.12	1.12	1.12	1.12	1.09	1.09	1.04	1.04	1.00	1.00	.94
1	1.09	1.07	1.06	1.04	1.05	1.03	1.01	1.00	.98	.97	.92
2	1.06	1.03	1.01	.99	1.02	.98	.99	.96	.96	.94	.91
3	1.04	1.00	.98	.96	.99	.95	.97	.94	.95	.92	.90
4	1.02	.98	.95	.93	.97	.92	.95	.91	.94	.91	.89
5	1.00	.96	.92	.90	.95	.90	.93	.89	.92	.89	.87
6	.98	.94	.91	.89	.93	.89	.92	.88	.91	.87	.86
7	.96	.92	.89	.87	.91	.86	.90	.86	.89	.86	.85
8	.95	.90	.87	.85	.89	.85	.89	.85	.88	.84	.83
9	.93	.88	.86	.84	.88	.84	.87	.83	.87	.83	.82
10	.92	.87	.84	.82	.87	.82	.86	.82	.86	.82	.81

LUMINAIRE INPUT WATTS = 110.0

** EFFICIENCY = 93.8% **
SC = .4

CERTIFIED TEST REPORT NO. 2421FR, DATE: JAN 21, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

70W PAR38, WIDE FLOOD, PHILIPS 3K MH LAMP, LUMEN RATING = 4800 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH TRIM



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	4860		45	2104
5	4540	437	55	0
10	4365		65	0
15	4197	1180	75	0
20	3890		85	0
25	3162	1498		
30	2735			
35	1466	929		
40	250			
45	42	65		
50	0			
55	0	0		
60	0			
65	0	0		
70	0			
75	0	0		
80	0			
85	0	0		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3115	64.9	75.81
0-40	4044	84.26	98.42
0-60	4109	85.61	100
0-90	4109	85.61	100
40-90	64	1.35	1.58
60-90	0	0	0
90-180	0	0	0
0-180	4109	85.61	100

Coefficients of Utilization

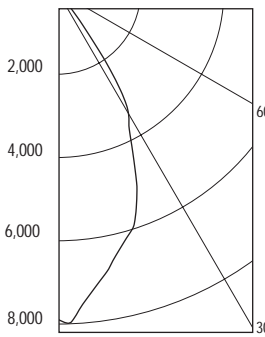
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	1.02	1.02	1.02	1.02	1.00	1.00	.95	.95	.91	.91	.86
1	.98	.96	.94	.93	.95	.91	.91	.89	.88	.86	.82
2	.94	.91	.89	.86	.90	.85	.87	.83	.85	.82	.79
3	.91	.87	.83	.81	.85	.80	.84	.79	.82	.78	.75
4	.88	.83	.79	.76	.82	.76	.80	.75	.78	.74	.72
5	.84	.79	.74	.72	.78	.71	.76	.71	.75	.70	.68
6	.81	.75	.71	.68	.74	.68	.73	.67	.72	.67	.66
7	.78	.71	.67	.64	.71	.64	.70	.64	.69	.63	.62
8	.75	.68	.64	.61	.67	.61	.67	.61	.66	.60	.59
9	.71	.65	.60	.58	.64	.58	.63	.57	.63	.57	.56
10	.69	.62	.57	.54	.61	.54	.61	.54	.60	.54	.53

LUMINAIRE INPUT WATTS = 78.0

** EFFICIENCY = 85.6% **
SC = .9

CERTIFIED TEST REPORT NO. 2420FR, DATE: JAN 26, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

100W PAR38, WIDE FLOOD, PHILIPS 3K MH LAMP, LUMEN RATING = 6800 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH TRIM



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	7868		45	3439
5	7495	709	55	0
10	6849		65	0
15	6228	1761	75	0
20	5546		85	0
25	4296	2032		
30	3425			
35	1738	1130		
40	296			
45	69	84		
50	2			
55	0	0		
60	0			
65	0	0		
70	0			
75	0	0		
80	0			
85	0	0		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	4502	66.21	78.74
0-40	5632	82.83	98.51
0-60	5717	84.08	100
0-90	5717	84.08	100
40-90	84	1.25	1.49
60-90	0	0	0
90-180	0	0	0
0-180	5717	84.08	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	1.00	1.00	1.00	1.00	.98	.98	.93	.93	.89	.89	.84
1	.97	.95	.93	.91	.93	.90	.89	.87	.86	.85	.81
2	.93	.90	.87	.85	.88	.84	.86	.82	.83	.81	.78
3	.90	.86	.82	.80	.84	.79	.83	.78	.81	.77	.75
4	.87	.82	.78	.76	.81	.75	.79	.74	.78	.74	.72
5	.83	.78	.74	.71	.77	.71	.76	.71	.75	.70	.68
6	.81	.75	.71	.68	.74	.68	.73	.68	.72	.67	.66
7	.77	.71	.68	.65	.71	.64	.70	.64	.69	.64	.63
8	.75	.68	.64	.62	.68	.61	.67	.61	.66	.61	.60
9	.71	.65	.61	.58	.65	.58	.64	.58	.63	.58	.57
10	.69	.62	.58	.56	.62	.56	.61	.55	.61	.55	.54

LUMINAIRE INPUT WATTS = 110.0

*** EFFICIENCY = 84.1% **
SC = .8

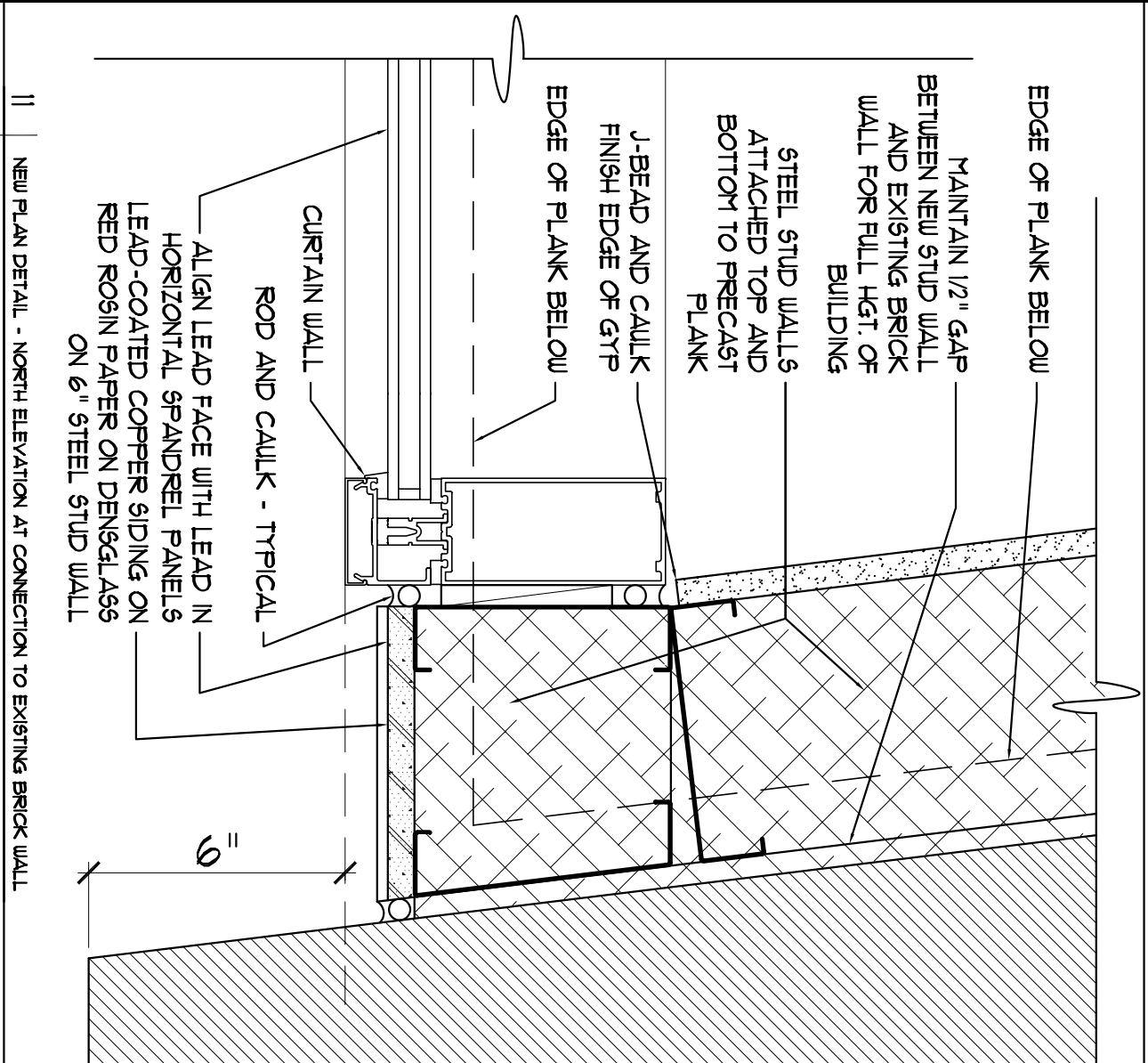
CERTIFIED TEST REPORT NO. 2422FR,
DATE: JAN 21, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information Type:

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
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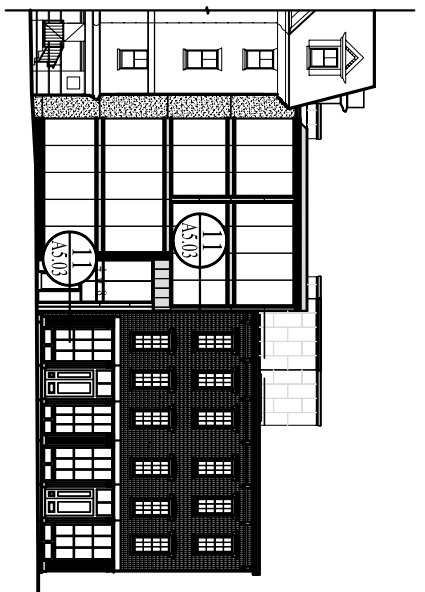
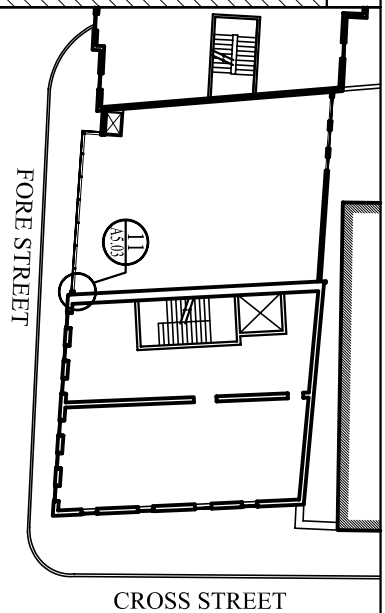


CLARIFICATION OF CONNECTION BETWEEN NEW CURTAIN WALL AND EXISTING BRICK WALL



NEW PLAN DETAIL - NORTH ELEVATION AT CONNECTION TO EXISTING BRICK WALL

SCALE: 3/8"=1'-0"



CROSS STREET

FORE STREET

AD 1.1

ADDENDUM TO SHEET A5.03

Project:
PORTLAND HARBOR HOTEL ANNEX
 468-470 FORE STREET
 PORTLAND, MAINE

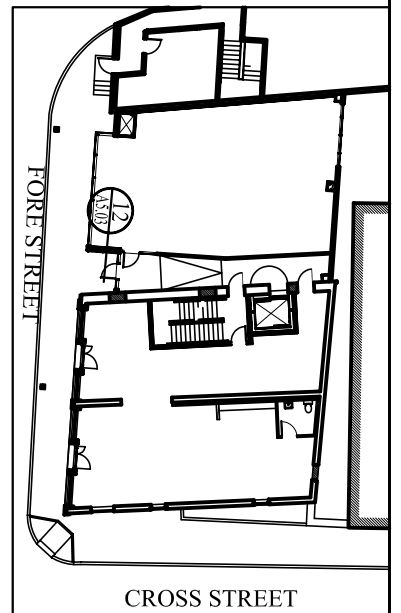
Date: 31 August 2007
 Scale: SEE DETAIL

PLAN DETAIL
 NORTH ELEVATION

ARCHETYPE, P.A. ARCHITECTS

48 Union Wharf Portland, Maine 04101
 (207) 772-6022 Fax (207) 772-4056

CLARIFICATION OF SILL
DETAIL AT GRANITE
PANEL WALL AT ENTRY
VESTIBULE



1/6 GUAGE 6" STEEL STUDS
SPACED 12 IN. OC MAX. PROVIDE
1/6 GUAGE HORIZONTAL BLOCKING
SPACED 24" O.C. VERTICALLY.
INSULATE WITH CELLULOSE

1/6 GUAGE HORIZONTAL
BLOCKING SPACED 24" O.C.
VERTICALLY.

GROUND FLOOR (A)

1
A5.03

2" THICK GRANITE PANELS
"CONCORD GREY -
THERMAL" FINISHED (SEE
DETAIL 1/A5.03 FOR
TYPICAL ANCHORAGE AT
JOINTS)

WEEP HOLES ABOVE GRADE
AT ALL VERTICAL JOINTS IN
GRANITE

ENTRY VESTIBULE

BRICK SIDEWALK PAVERS

GROUT SOLID UP TO GRADE

CONTINUOUS FLASHING TO 12"
ABOVE GRADE

NEW FOUNDATION WALL - SEE
STRUCTURALS

RIGID INSULATION AND
WATERPROOFING

12 NEW DETAIL - GRANITE SILL AT ENTRY VESTIBULE

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

ADDENDUM TO SHEET A5.03

Project:

PORTLAND HARBOR
HOTEL ANNEX

468-470 FORE STREET
PORTLAND, MAINE

Date

31 August 2007

Scale

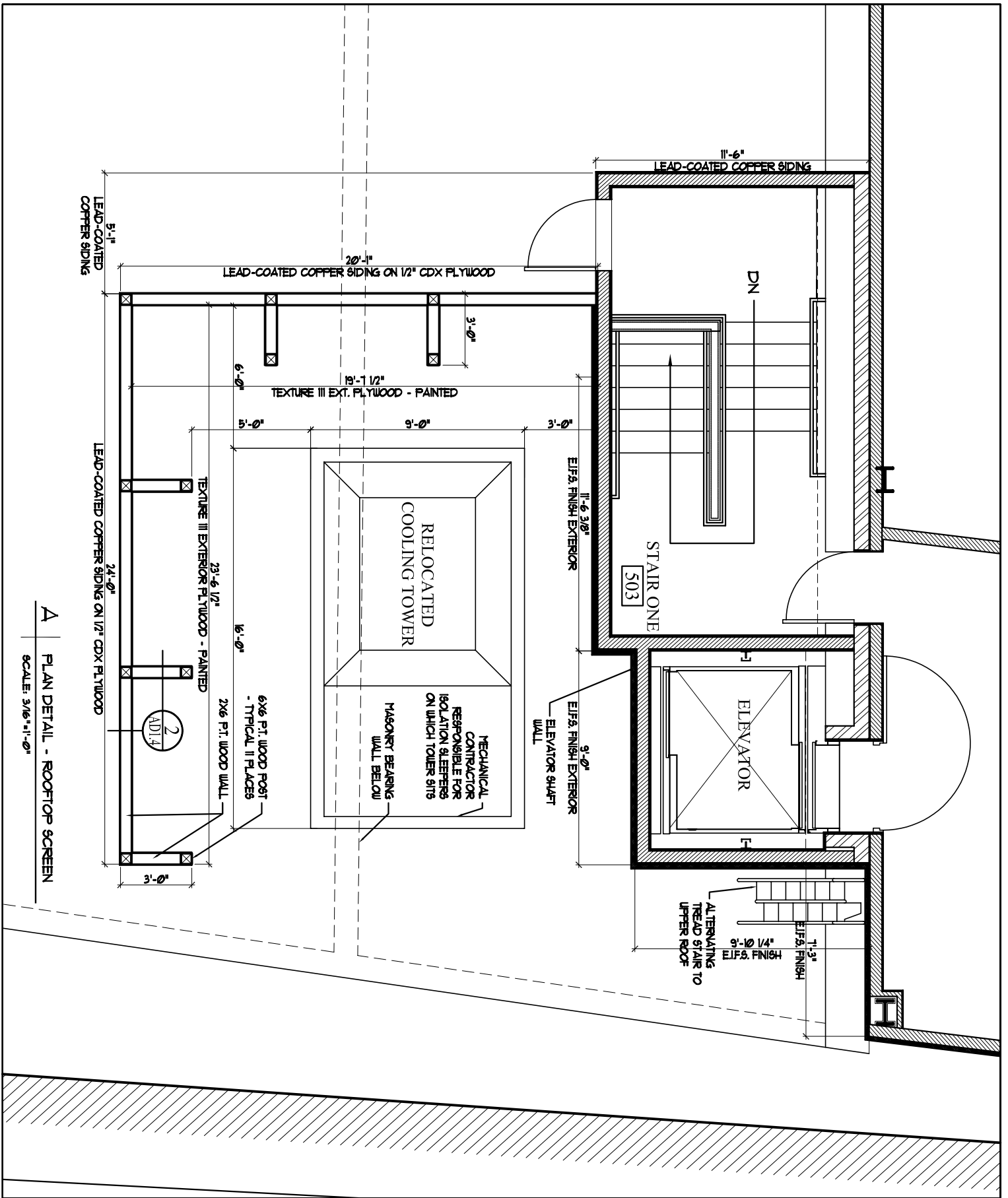
1 1/2" = 1'-0"

SILL DETAIL
GRANITE WALL
ENTRY VESTIBULE

ARCHETYPE, P.A.
ARCHITECTS

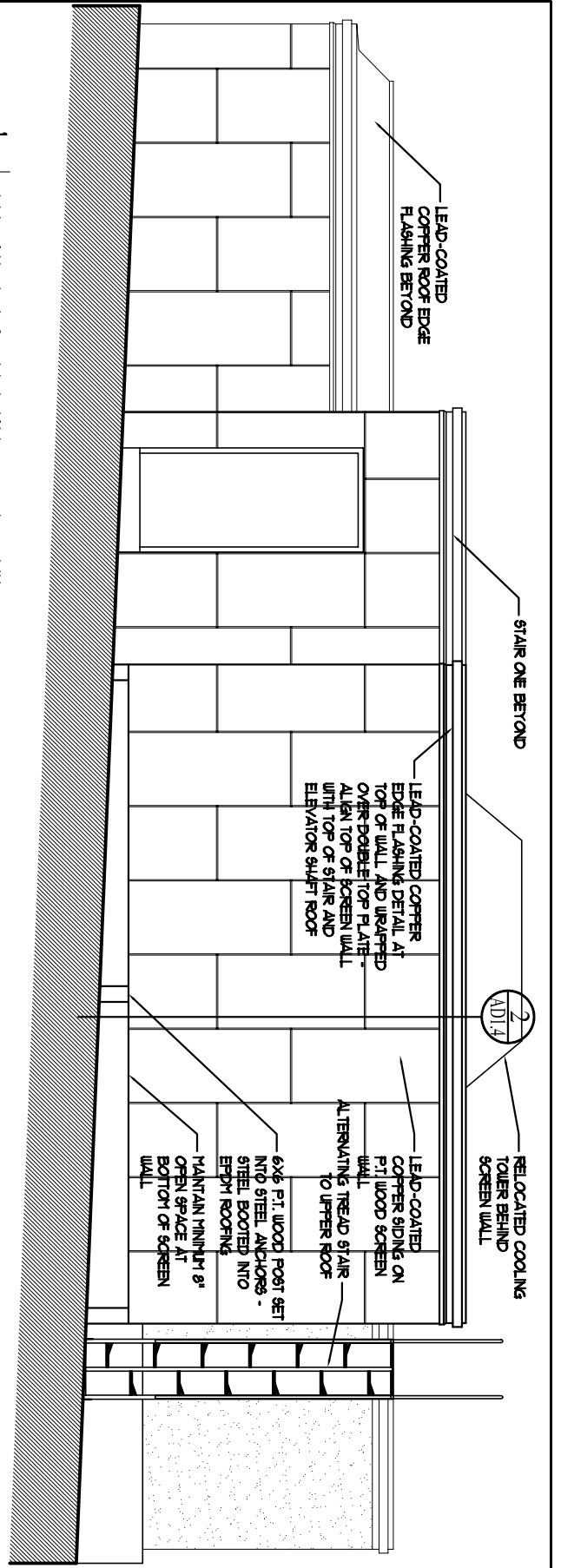
48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056

AD 1.2

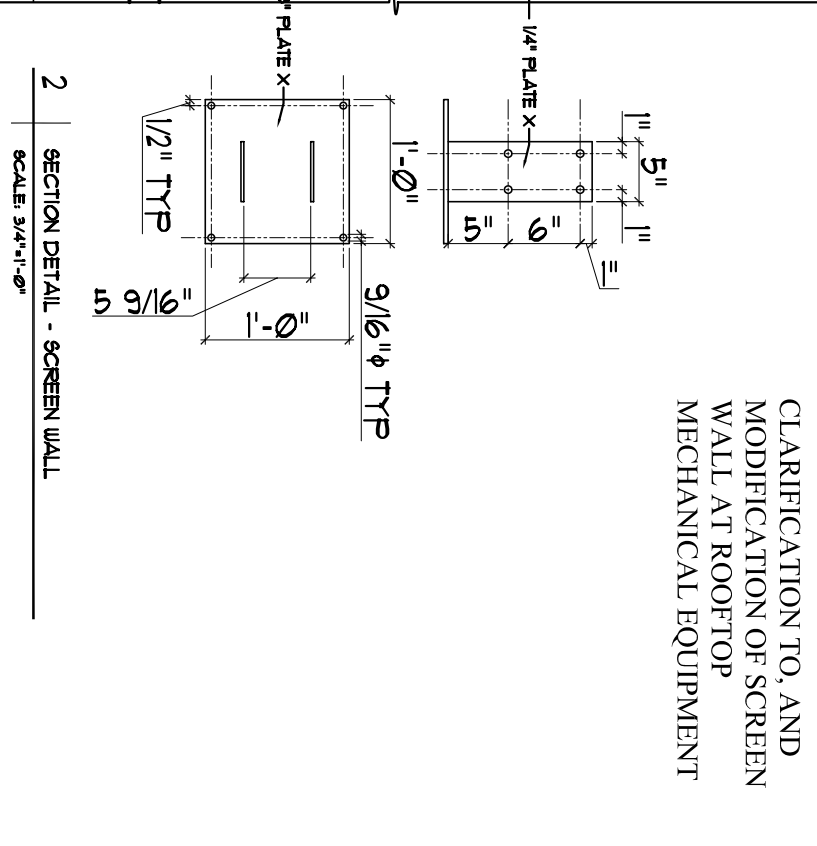
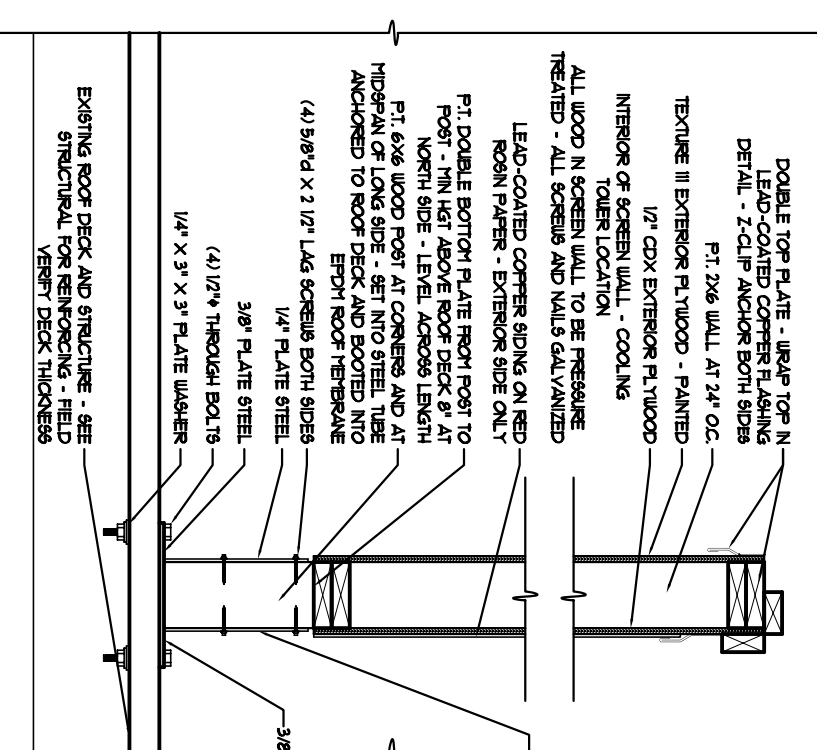


A PLAN DETAIL - ROOFTOP SCREEN
 SCALE: 3/16" = 1'-0"

AD 1.3	ADDENDUM TO SHEET A1.05		Date 31 August 2007	Scale SEE DETAIL
	Project: PORTLAND HARBOR HOTEL ANNEX		ROOFTOP SCREEN PLAN	
	468-470 FORE STREET PORTLAND, MAINE			
ARCHETYPE, P.A. ARCHITECTS			48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056	



1 ELEVATION OF SCREEN WALL - ROOFTOP UNIT
SCALE: 3/4"=1'-0"



CLARIFICATION TO, AND MODIFICATION OF SCREEN WALL AT ROOFTOP MECHANICAL EQUIPMENT

EXISTING ROOF DECK AND STRUCTURE - SEE STRUCTURAL FOR REINFORCING - FIELD VERIFY DECK THICKNESS

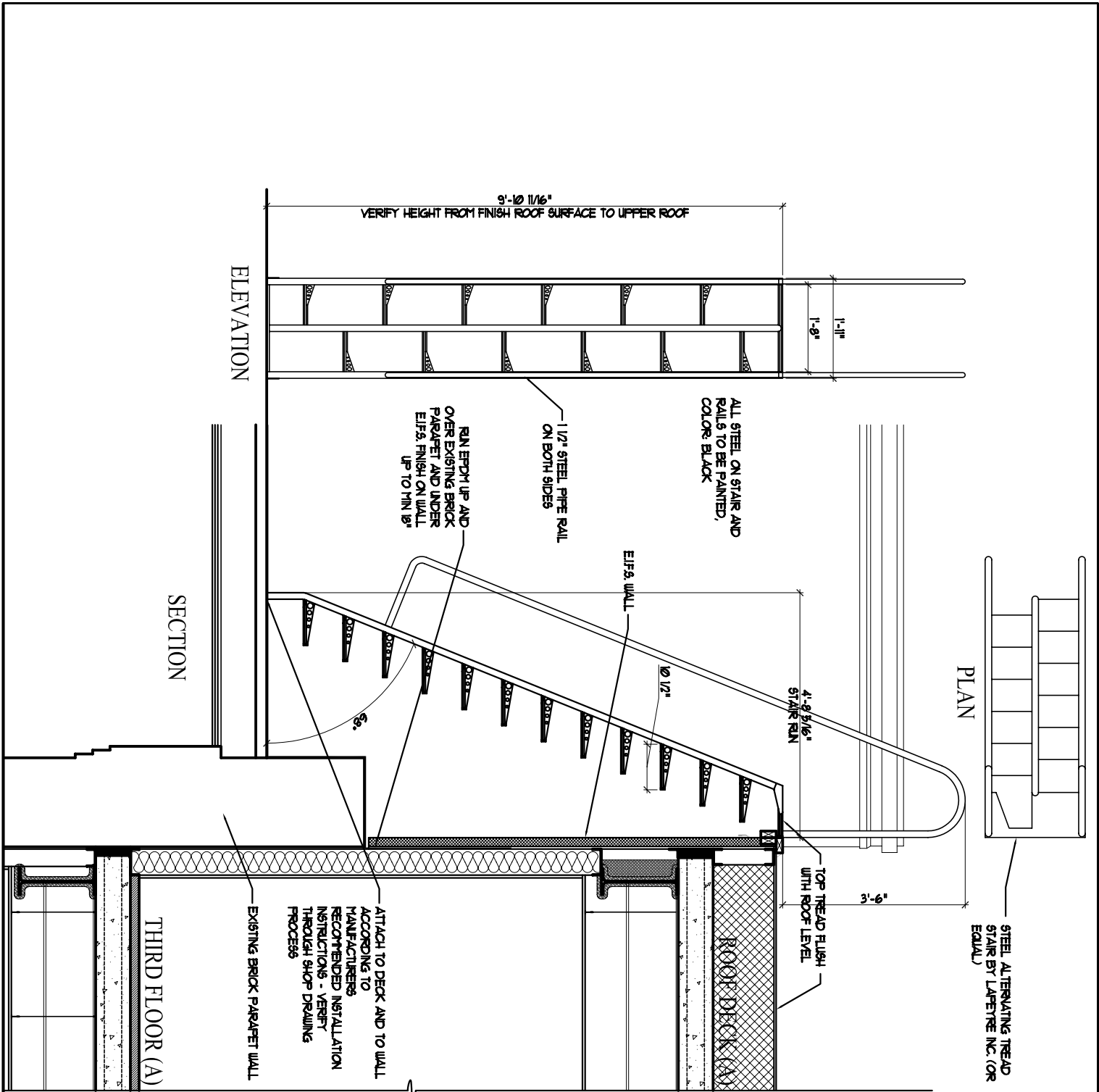
2 SECTION DETAIL - SCREEN WALL
SCALE: 3/4"=1'-0"

AD 1.4

ADDENDUM TO SHEET A1.05
Project:
PORTLAND HARBOR HOTEL ANNEX
468-470 FORE STREET
PORTLAND, MAINE

Date
31 August 2007
Scale
SEE DETAIL
SECTION DETAIL
SCREEN WALL
ROOFTOP UNIT

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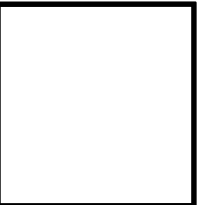
ADDITION OF
STAIR FOR ROOF
ACCESS

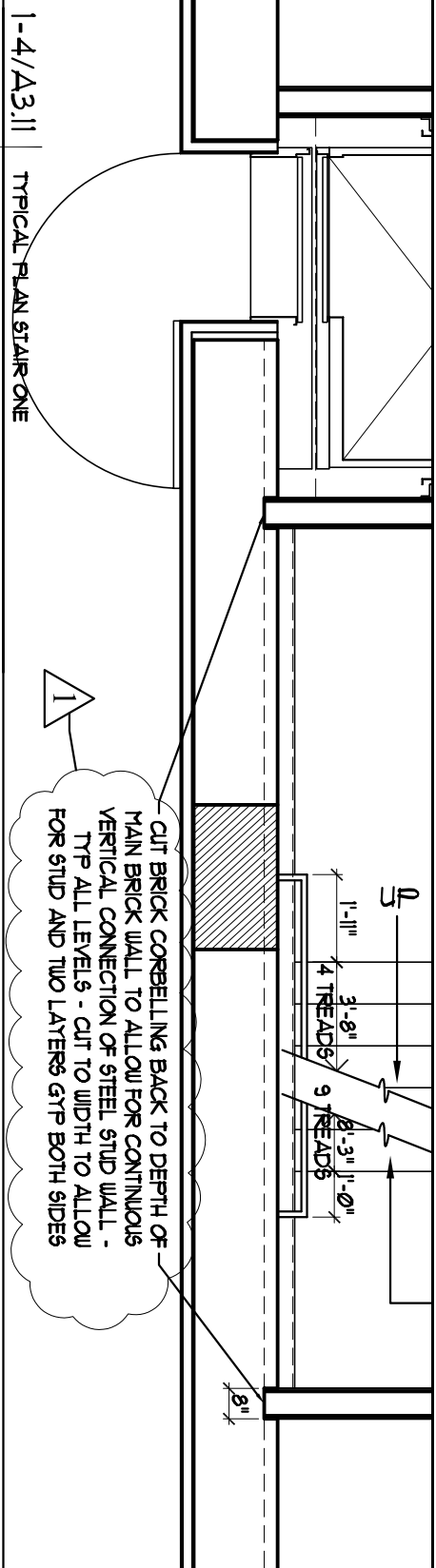
AD 1.5

ADDENDUM TO SHEET A1.05
Project:
PORTLAND HARBOR
HOTEL ANNEX
468-470 FORE STREET
PORTLAND, MAINE

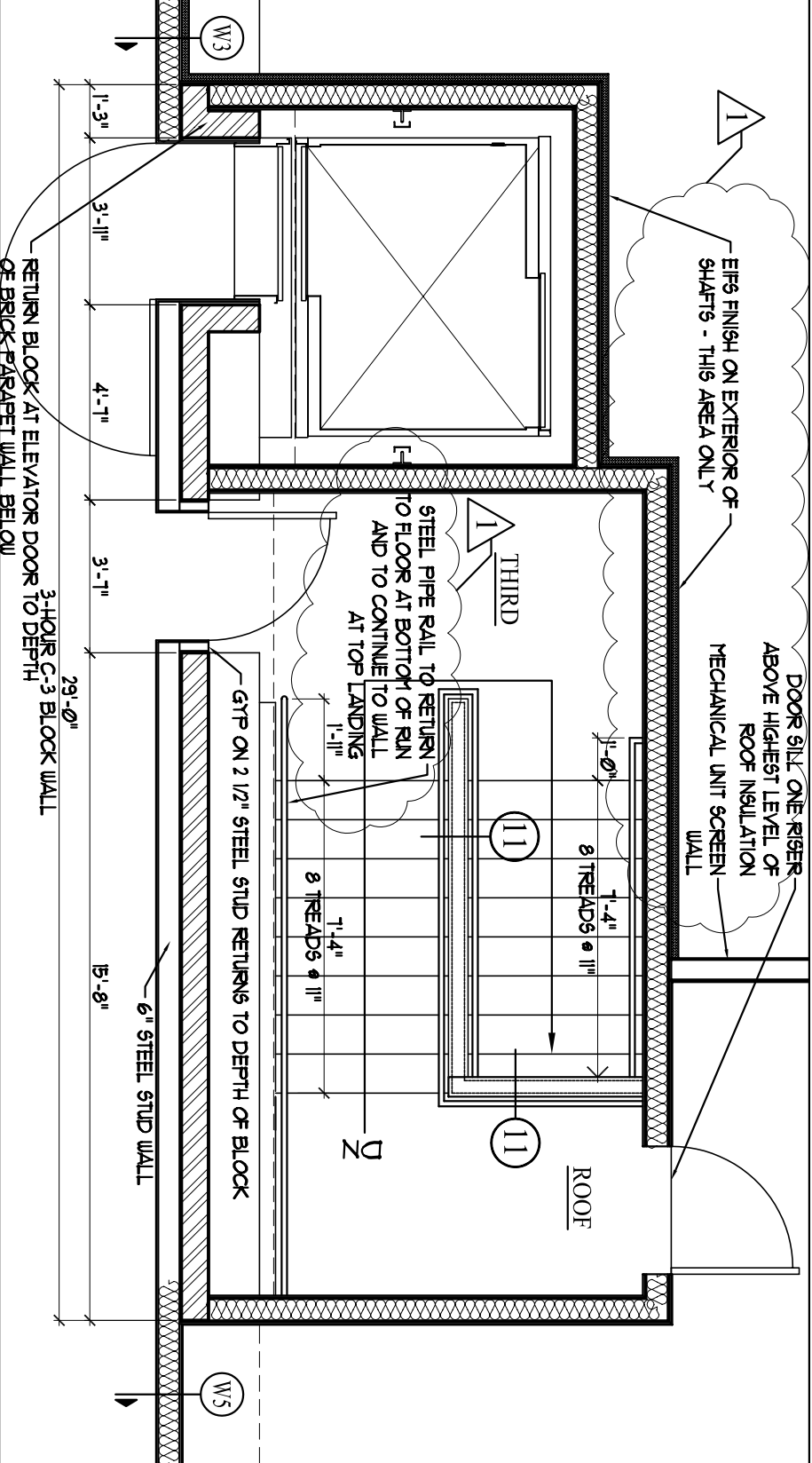
Date
31 August 2007
Scale
3/8" = 1'-0"
ALTERNATING
TREAD STAIR TO
UPPER ROOF

ARCHETYPE, P.A.
ARCHITECTS
48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056



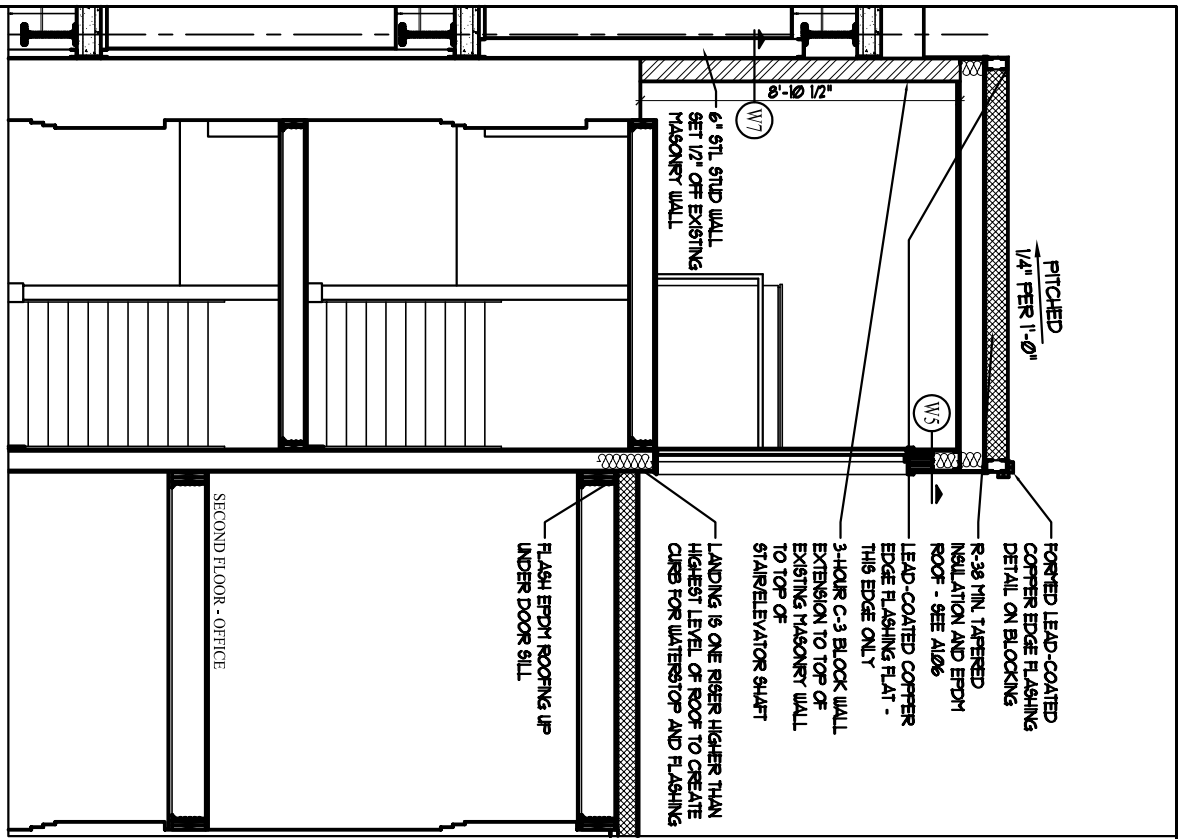


1-4/A3.11 TYPICAL PLAN STAIR ONE
SCALE: 1/4"=1'-0"

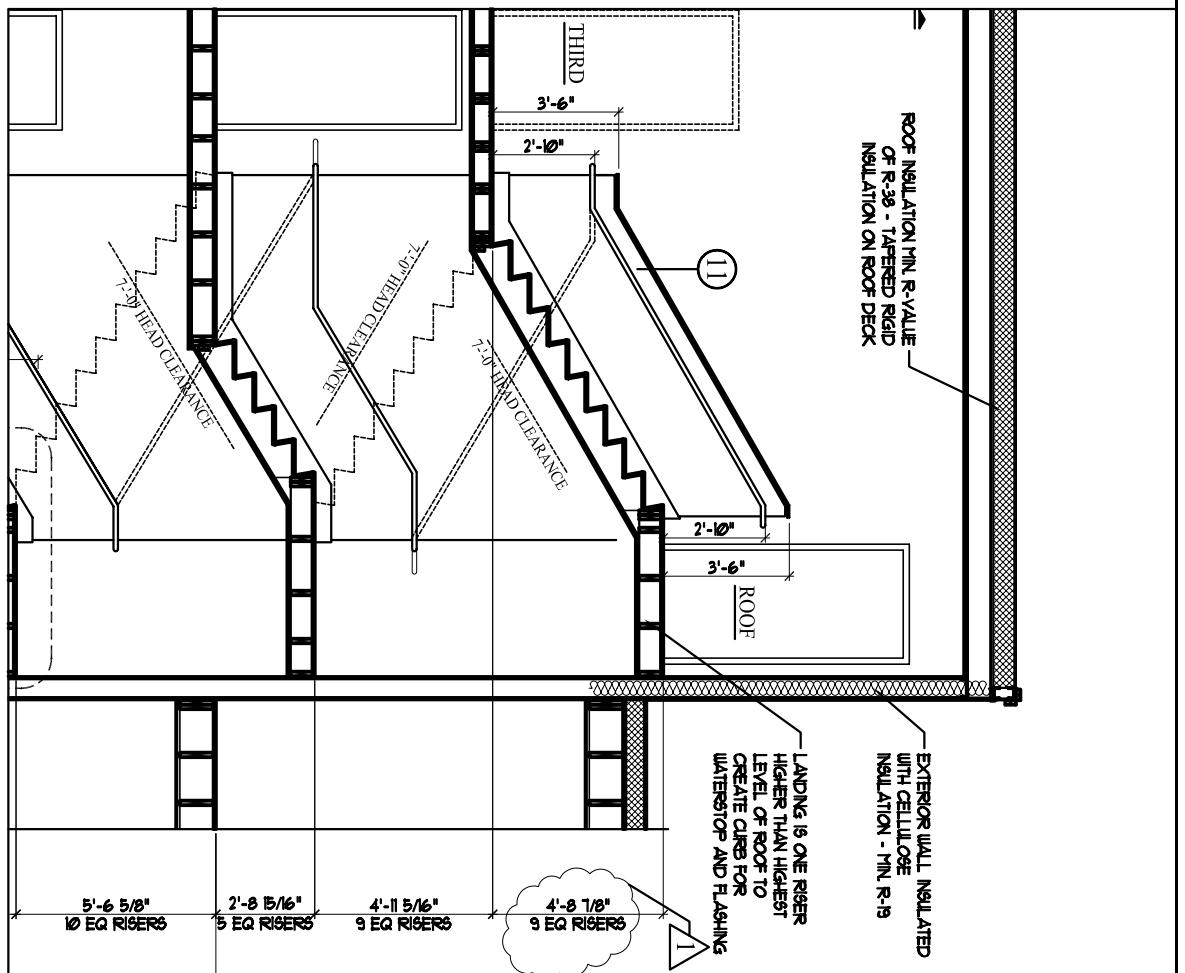


5/A3.11 PLAN AT THIRD FLOOR - STAIR ONE
SCALE: 1/4"=1'-0"

<h1>AD 1.6</h1>	ADDENDUM TO SHEET A3.11		Date 31 August 2007	Scale 1/4" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS <small>48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056</small>
	Project: PORTLAND HARBOR HOTEL ANNEX <small>468-470 FORE STREET PORTLAND, MAINE</small>		REVISED DETAILS STAIR ONE		



B/A3.11 TRANSVERSE SECTION STAIR ONE
SCALE: 3/16" = 1'-0"



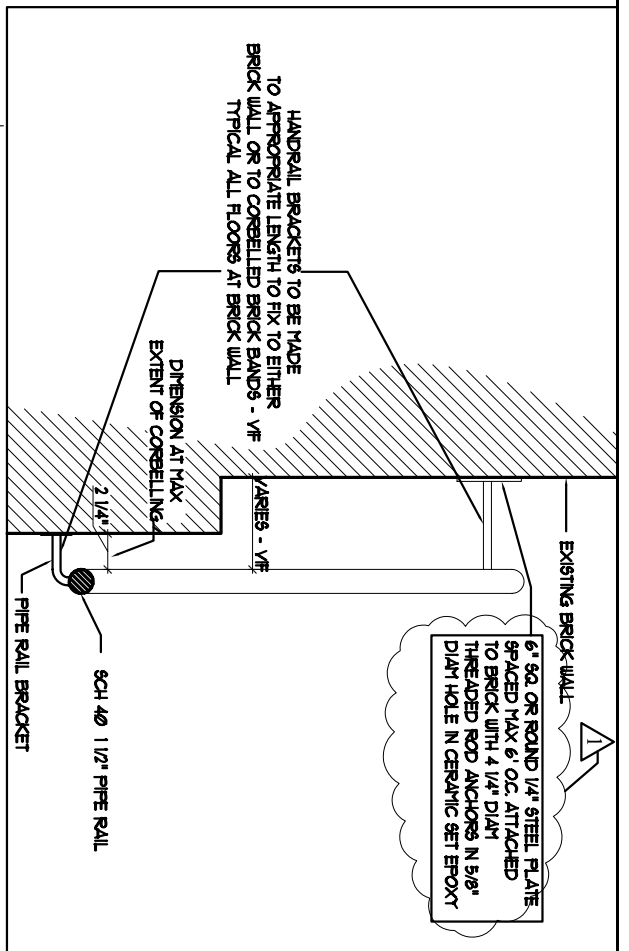
A/A3.11 LONGITUDINAL SECTION STAIR ONE
SCALE: 3/16" = 1'-0"

AD 1.7

ADDENDUM TO SHEET A3.11
Project: PORTLAND HARBOR HOTEL ANNEX
468-470 FORE STREET
PORTLAND, MAINE

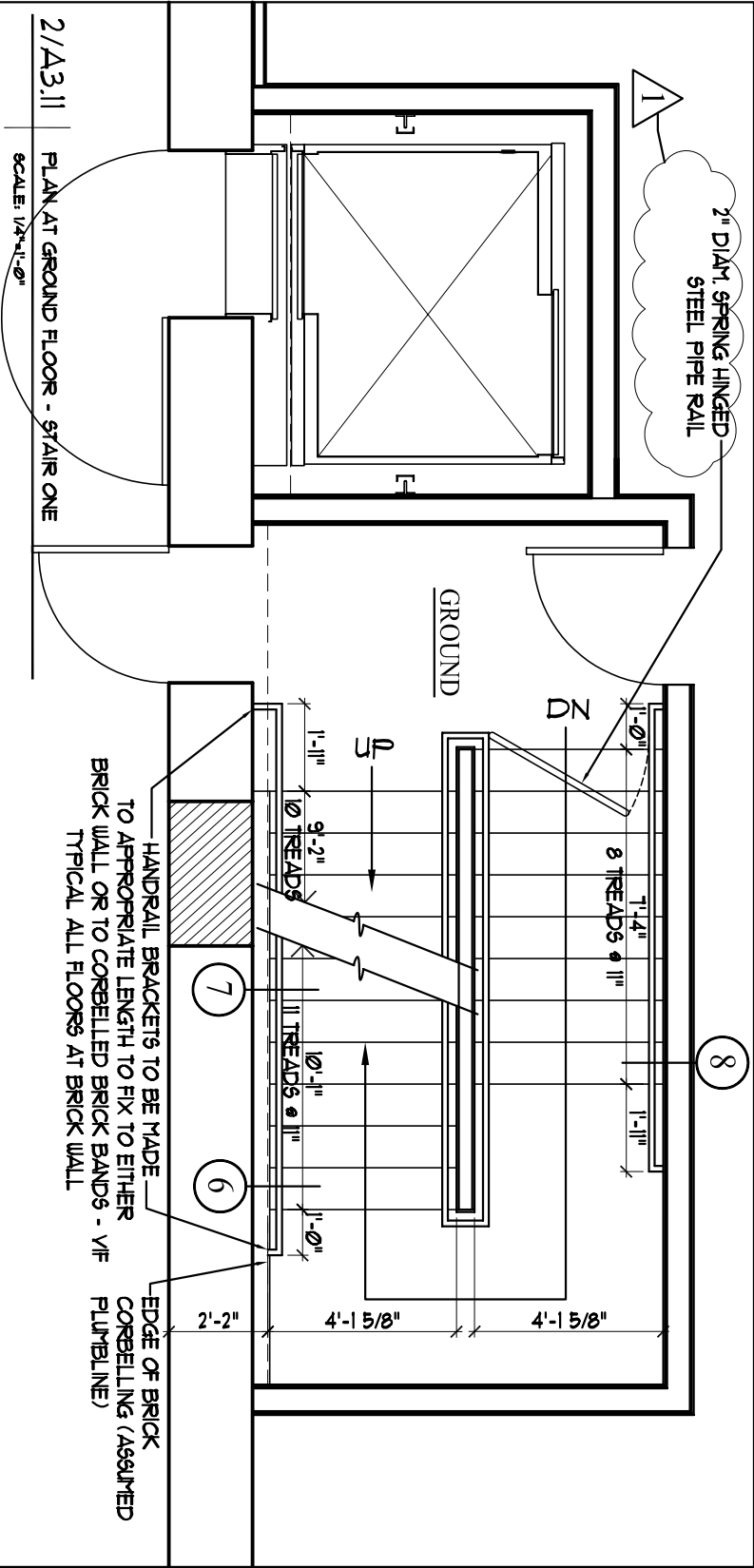
Date: 31 August 2007
Scale: 3/16" = 1'-0"
REVISED DETAILS
STAIR ONE

ARCHETYPE, P.A.
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6/A3.11 STEEL HANDRAIL DETAIL AT BRICK CORBELLING

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



2/A3.11 PLAN AT GROUND FLOOR - STAIR ONE

SCALE: 1/4" = 1'-0"

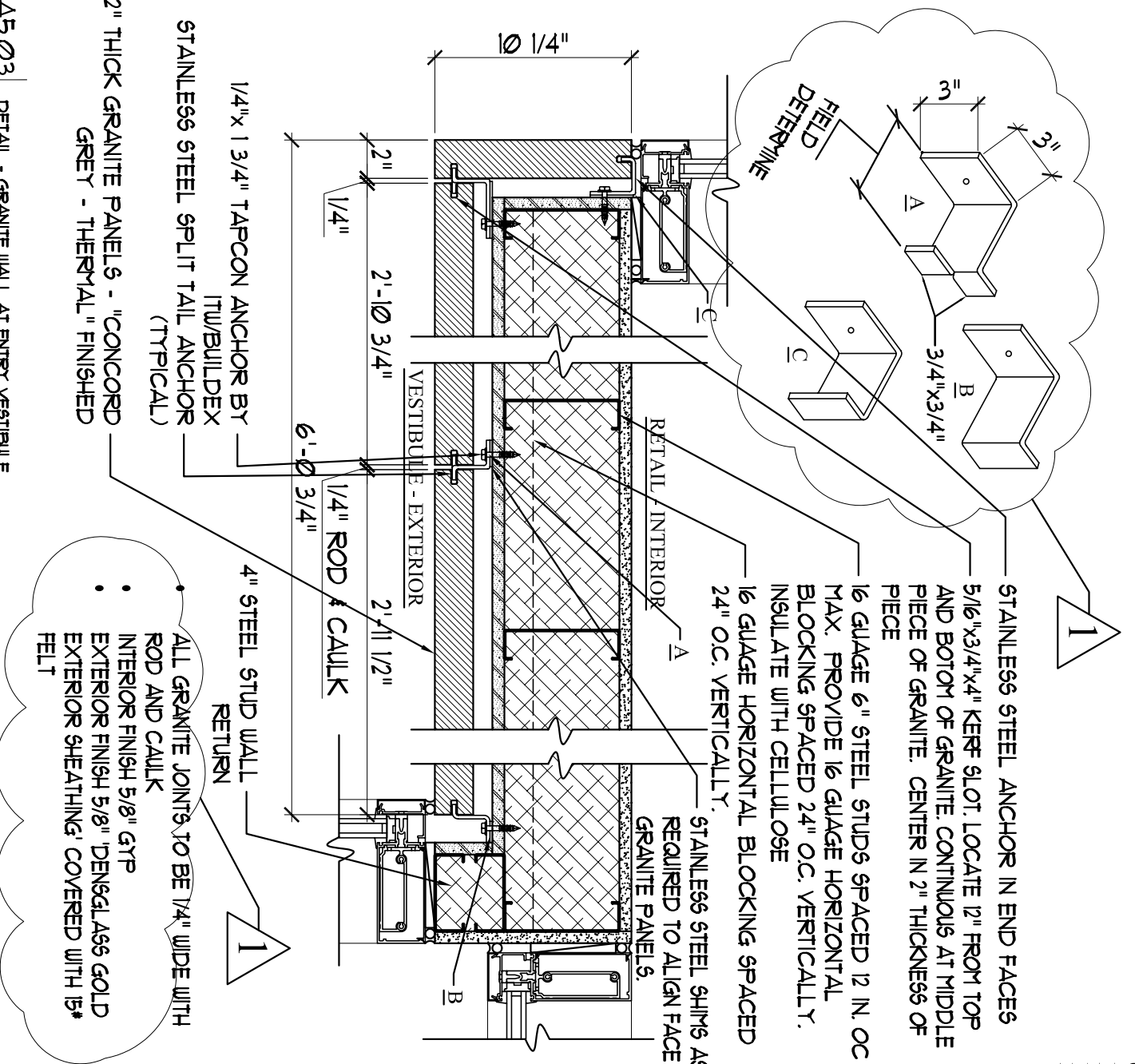
AD 1.8

ADDENDUM TO SHEET A3.11
 Project: PORTLAND HARBOR HOTEL ANNEX
 468-470 FORE STREET
 PORTLAND, MAINE

Date: 31 August 2007
 Scale: 1 1/2" = 1'-0"
 REVISED DETAILS
 STAIR ONE

ARCHETYPE, P.A. ARCHITECTS
 48 Union Wharf Portland, Maine 04101
 (207) 772-6022 Fax (207) 772-4056

CLARIFICATION OF PLAN
DETAIL AT GRANITE
PANEL WALL AT ENTRY
VESTIBULE



STAINLESS STEEL ANCHOR IN END FACES

5/16" X 3/4" X 4" KEF SLOTT. LOCATE 12" FROM TOP AND BOTOM OF GRANITE. CONTINUOUS AT MIDDLE PIECE OF GRANITE. CENTER IN 2" THICKNESS OF PIECE

16 GAUGE 6" STEEL STUDS SPACED 12 IN. OC MAX. PROVIDE 16 GAUGE HORIZONTAL BLOCKING SPACED 24" O.C. VERTICALLY. INSULATE WITH CELLULOSE

24" O.C. VERTICALLY.

STAINLESS STEEL SHIMS AS REQUIRED TO ALIGN FACE OF GRANITE PANELS.

4" STEEL STUD WALL RETURN

ALL GRANITE JOINTS TO BE 1/4" WIDE WITH ROD AND CAULK
 • INTERIOR FINISH 5/8" GYP
 • EXTERIOR FINISH 5/8" DENGLASS GOLD EXTERIOR SHEATHING COVERED WITH 15# FELT

1/45.03 DETAIL - GRANITE WALL AT ENTRY VESTIBULE

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

AD 1.9	ADDENDUM TO SHEET A5.03		Date 31 August 2007	Scale 1 1/2" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS <small>48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056</small>
	Project: PORTLAND HARBOR HOTEL ANNEX <small>468-470 FORE STREET PORTLAND, MAINE</small>		PLAN DETAIL GRANITE WALL ENTRY VESTIBULE		

*** DOOR SCHEDULE ***

DOOR No.	SIZE W x H x T	DOOR		THRESH	FRAME		LABEL	REMARKS
		Type	Material		Material	Type		
001	3'-0" x 7'-0" x 1 3/4"	3	Alum	Alum	Metal	1		Weatherstrip
002	3'-0" x 7'-0" x 1 3/4"	2	Insul Metal	Alum	Metal	1		Weatherstrip Painted
003	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	5	3 hr	Painted
004	3'-8" x 7'-0" x 1 3/4"	1	Metal		Metal	3	3 hr	Hold-open Painted
005	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	6		Smoke Seal Gasketing
007	3'-0" x 7'-0" x 1 3/4"	2	Metal		Metal	7	1-1/2 hr	Painted
008	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	7	1-1/2 hr	Painted
009	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	6	20 min	
010	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	6	20 min	Painted
011								
101	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	4	3 hr	Painted
102	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	2	3 hr	Hold-open Painted
103	3'-0" x 7'-0" x 1 3/4"	2	Metal		Metal	4	3 hr	Painted
104	3'-0" x 7'-0" x 1 3/4"	2	Metal		Metal	7	1-1/2"	Hold-open Painted
105	3'-0" x 7'-0" x 1 3/4"	4	Alum	Alum	Alum			Smoke Seal Gasketing
106	3'-0" x 7'-0" x 1 3/4"		Alum	Alum	Alum			
107	3'-0" x 7'-0" x 1 3/4"		Mahogany	Alum	Mahogany			
108	3'-0" x 7'-0" x 1 3/4"		Mahogany	Alum	Mahogany			
201	3'-0" x 7'-0" x 1 3/4"	2	Wood		Metal	6	20 min	Smoke Seal Gasketing
202	3'-0" x 7'-0" x 1 3/4"	2	Wood		Metal	6	20 min	Smoke Seal Gasketing
203	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	5	3 hr	Painted
204	3'-8" x 7'-0" x 1 3/4"	1	metal		Metal	3	3 hr	Hold-open Painted
206	3'-0" x 7'-0" x 1 3/4"	2	Metal		Metal	7	1-1/2 hr	Painted
207	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	6	20 min	Smoke Seal Gasketing
208	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	6	20 min	Smoke Seal Gasketing
209	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	6		Smoke Seal Gasketing
301	3'-0" x 7'-0" x 1 3/4"	2	Metal		Metal	7	1-1/2 hr	Painted
302	3'-0" x 7'-0" x 1 3/4"	1	Wood		Metal	6	20 min	Smoke Seal Gasketing
303	3'-0" x 7'-0" x 1 3/4"	1	Wood		Metal	6	20 min	Smoke Seal Gasketing
304	3'-0" x 7'-0" x 1 3/4"	1	Wood		Metal	6	20 min	Smoke Seal Gasketing
305	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	5	3 hr	Painted
306	3'-8" x 7'-0" x 1 3/4"	1	Metal		Metal	3	3 hr	Hold-open Painted
308	6'-8" x 7'-0" x 1 3/4"	2	Metal		Metal	7	1-1/2 hr	Painted
309	3'-0" x 7'-0" x 1 3/4"	1	Insul Metal		Metal	6	45 min	Smoke Seal Gasketing
310	3'-0" x 7'-0" x 1 3/4"	1	Wood		Metal	6		
311	3'-0" x 7'-0" x 1 3/4"	1	Wood		Metal	6		
312	3'-0" x 7'-0" x 1 3/4"	1	Metal		Metal	4 SIM.	45 min	Smoke Seal Gasketing
401	3'-0" x 7'-0" x 1 3/4"	2	Metal	Alum	Metal	7	1-1/2 hr	Painted
402	3'-0" x 7'-0" x 1 3/4"	1	Wood	Alum	Metal	6	20 min	Smoke Seal Gasketing
403	3'-0" x 7'-0" x 1 3/4"	1	Wood	Alum	Metal	6	20 min	Smoke Seal Gasketing
404	3'-0" x 7'-0" x 1 3/4"	1	Wood	Alum	Metal	6	20 min	Smoke Seal Gasketing
405	3'-0" x 7'-0" x 1 3/4"	1	Metal	Alum	Metal	3	3 hr	Hold-open Painted
406	3'-0" x 7'-0" x 1 3/4"	2	Insul Metal	Alum	Metal	5 (SIM.)	3 hr	Painted
407	3'-0" x 7'-0" x 1 3/4"	1	Insul Metal	Alum	Metal	1 (SIM.)	1-1/2 hr	Painted

NOTE: ADDENDUM 1 - DOORS DELETED (006, 205, 307). SMOKE SEAL GASKETING ADDED TO ALL CORRIDOR DOORS



AD1.10

ADDENDUM TO SHEET A7.01

Project:

**PORTLAND HARBOR
HOTEL ANNEX**

468-470 FORE STREET
PORTLAND, MAINE

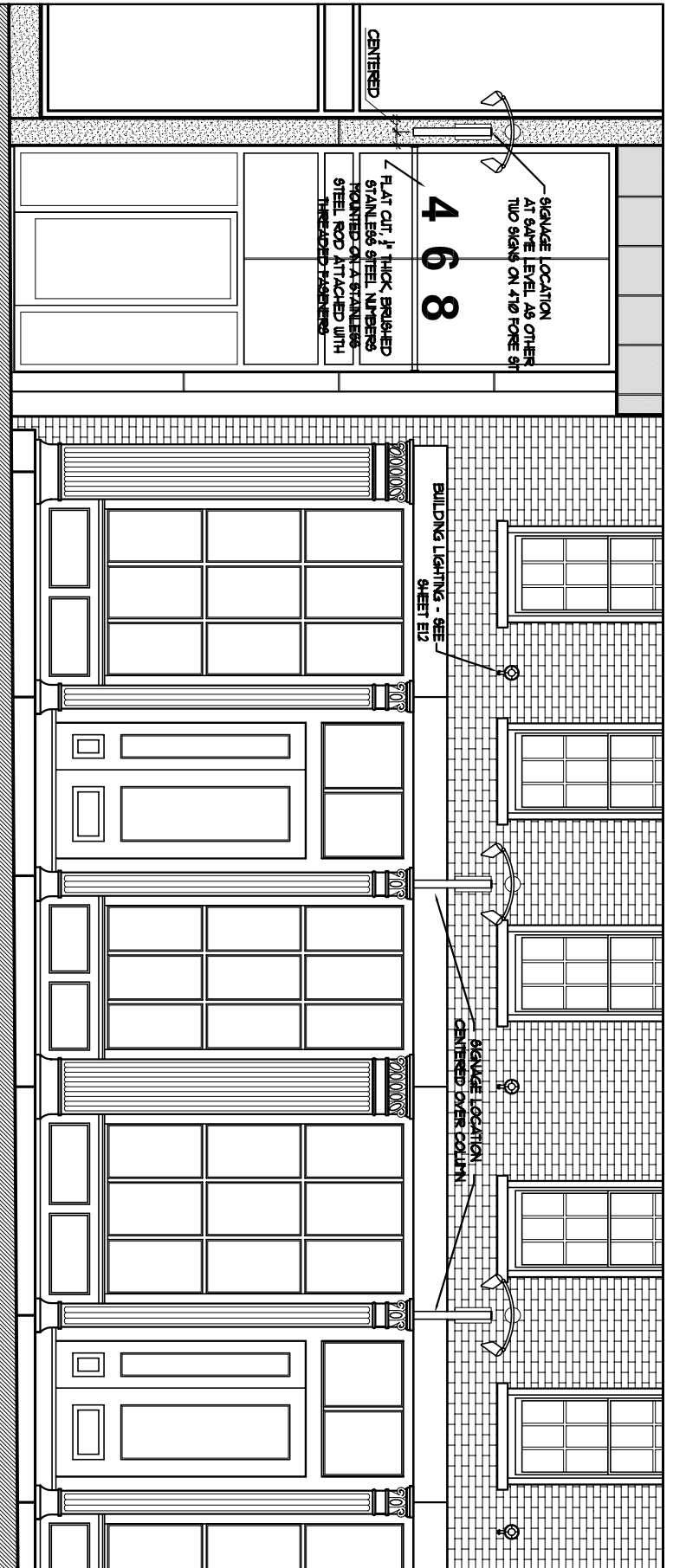
Date
31 August 2007

Scale
NOT TO SCALE

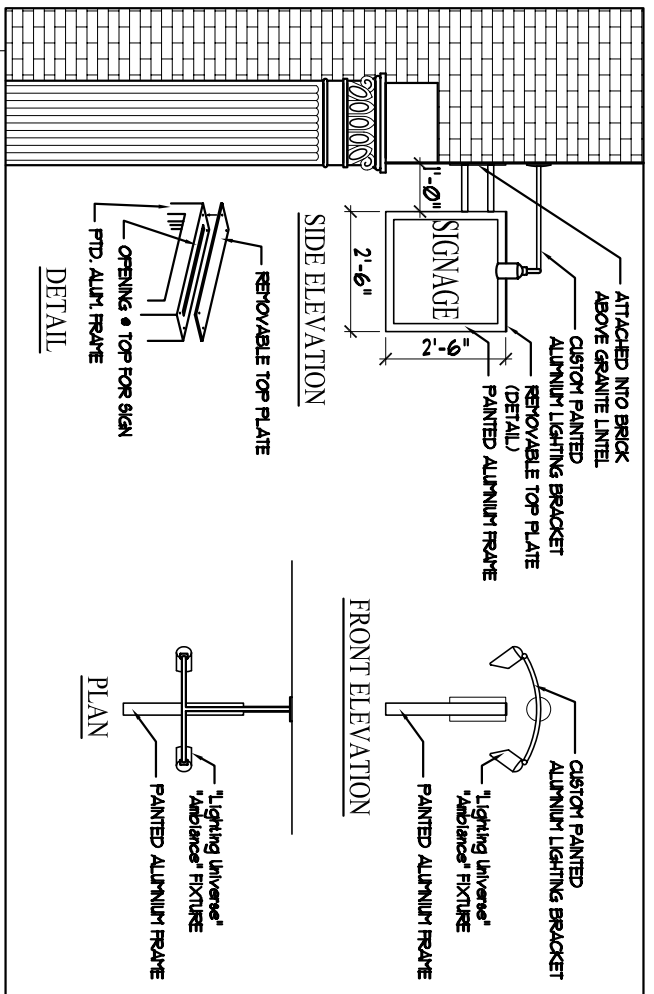
DOOR SCHEDULE

**ARCHETYPE, P.A.
ARCHITECTS**

48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056

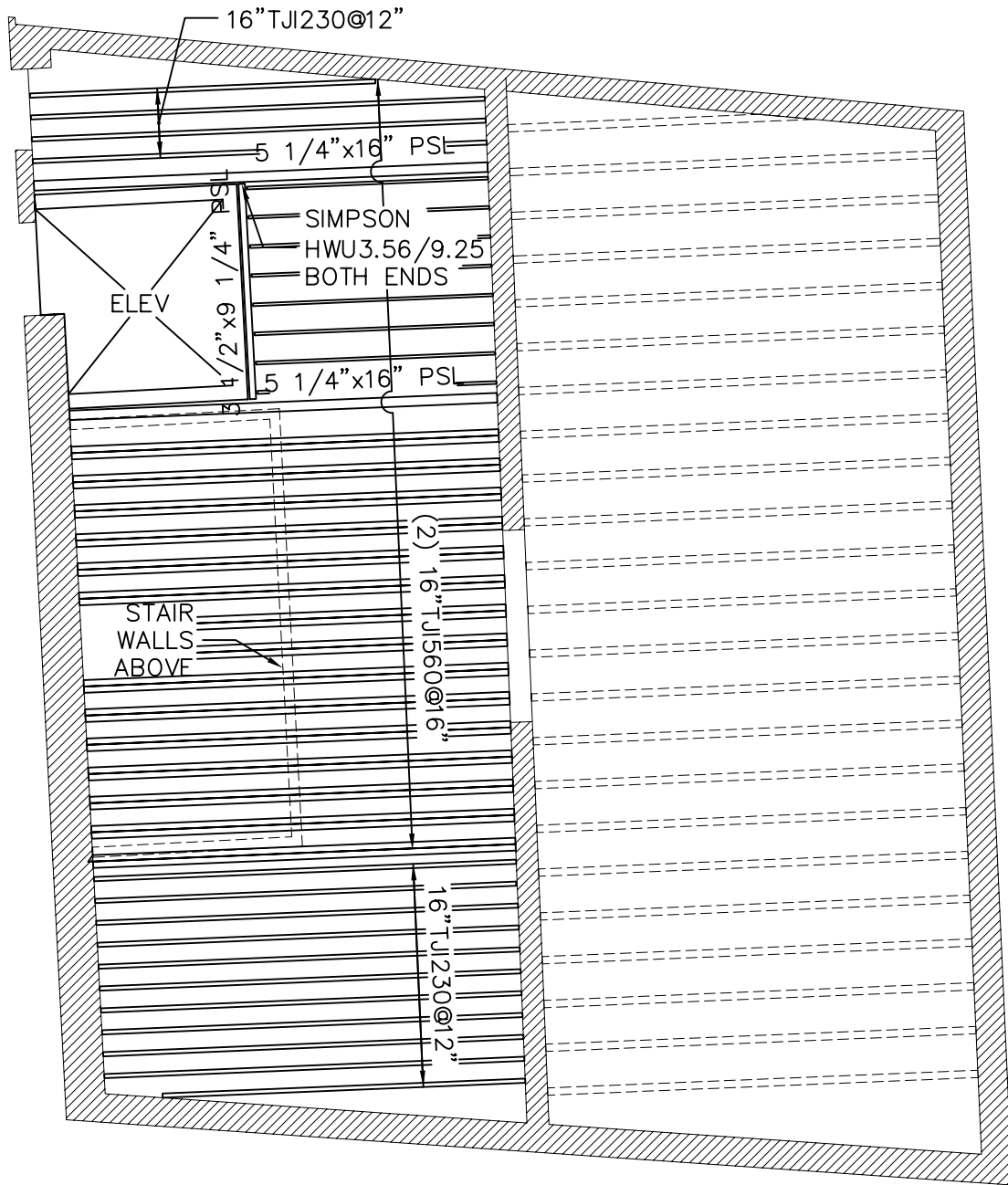


1 NORTH ELEVATION - SIGNAGE LOCATIONS
SCALE: 3/16"=1'-0"



2 DETAILS
SCALE: 1/4"=1'-0"

<h1 style="margin: 0;">AD 1.11</h1>	<p>ADDENDUM TO SHEET A5.01</p>	<p>Date 31 August 2007</p>	<p>Scale AS NOTED</p>	<p>ARCHETYPE, P.A. ARCHITECTS</p> <p>48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056</p>
	<p>Project: PORTLAND HARBOR HOTEL ANNEX</p> <p>468-470 FORE STREET PORTLAND, MAINE</p>	<p>SIGNAGE DETAILS</p>		

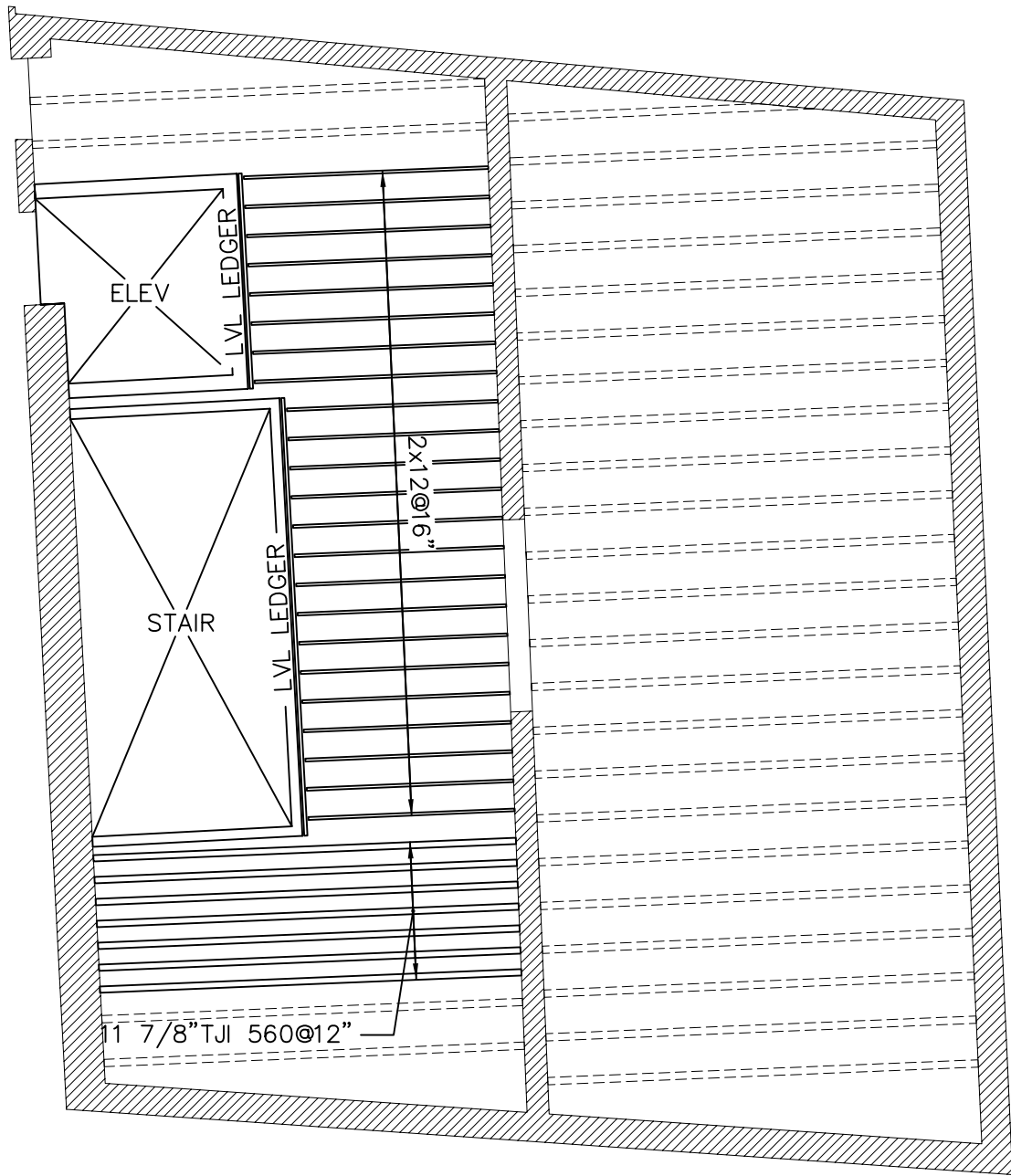


470 FORE ST. LOWER FLR FRAMING

1/8"=1'-0"

ADD FRAMING TO SHEET S3.
 EXIST FRAMING TO REMAIN SHOWN DASHED.
 LOWER EXISTING BRICK SHELF TO NEW
 BEARING ELEVATION.

AD 1.12	ADDENDUM TO SHEET S3	Date 31 August 2007	Scale 1/8" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS 48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056
	Project: PORTLAND HARBOR HOTEL ANNEX	STRUCTURAL FRAMING PLAN		
	468-470 FORE STREET PORTLAND, MAINE			

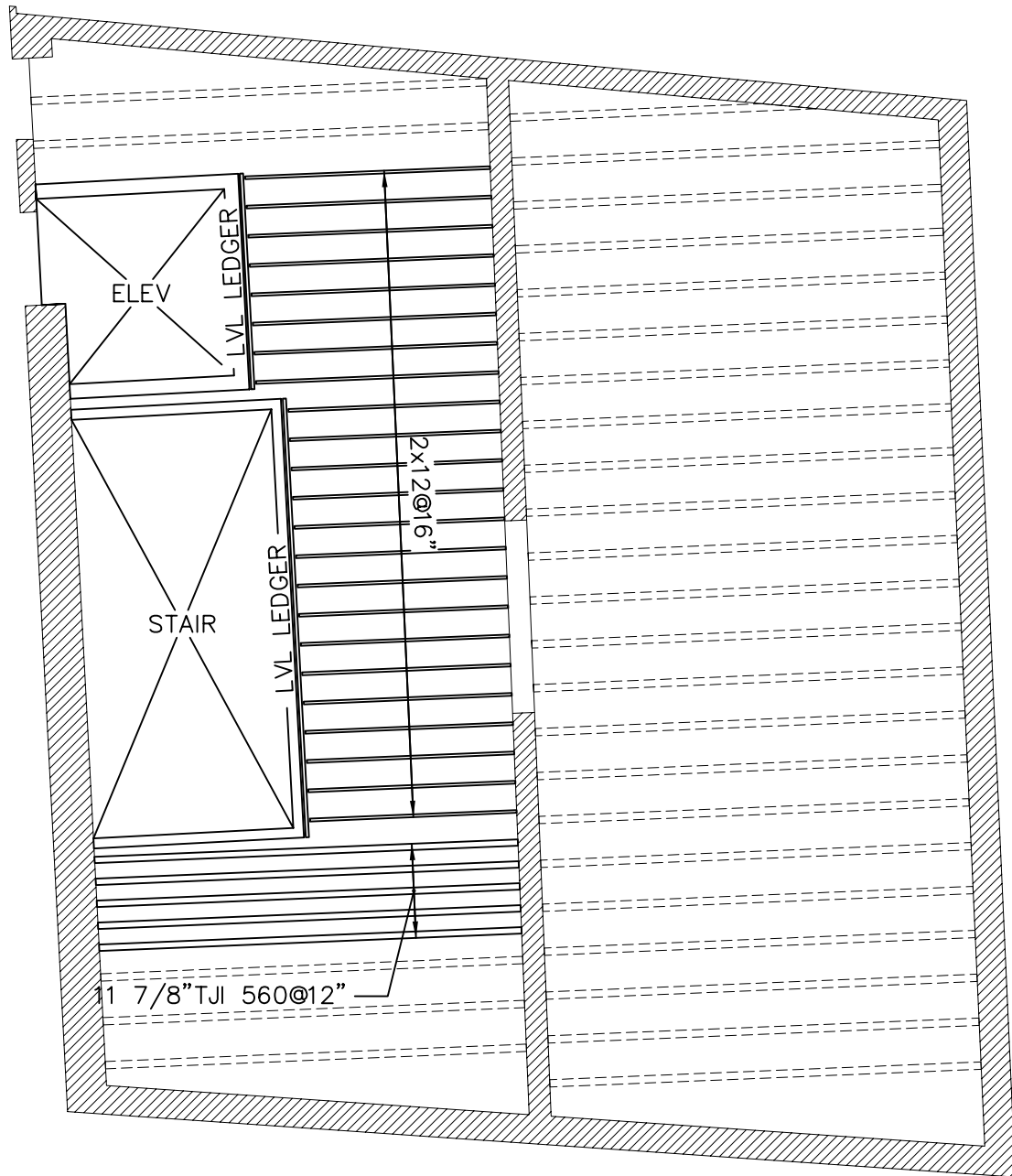


470 FORE ST. GROUND FLR FRAMING

1/8"=1'-0"

REPLACES FRAMING SHOWN ON S4.
 EXIST FRAMING TO REMAIN SHOWN DASHED.
 ELEV & STAIRWALLS ARE 6", A8 GAGE STEEL STUDS@12".

AD 1.13	ADDENDUM TO SHEET S4	Date 31 August 2007	Scale 1/8" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS 48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056
	Project: PORTLAND HARBOR HOTEL ANNEX	STRUCTURAL FRAMING PLAN		
	468-470 FORE STREET PORTLAND, MAINE			

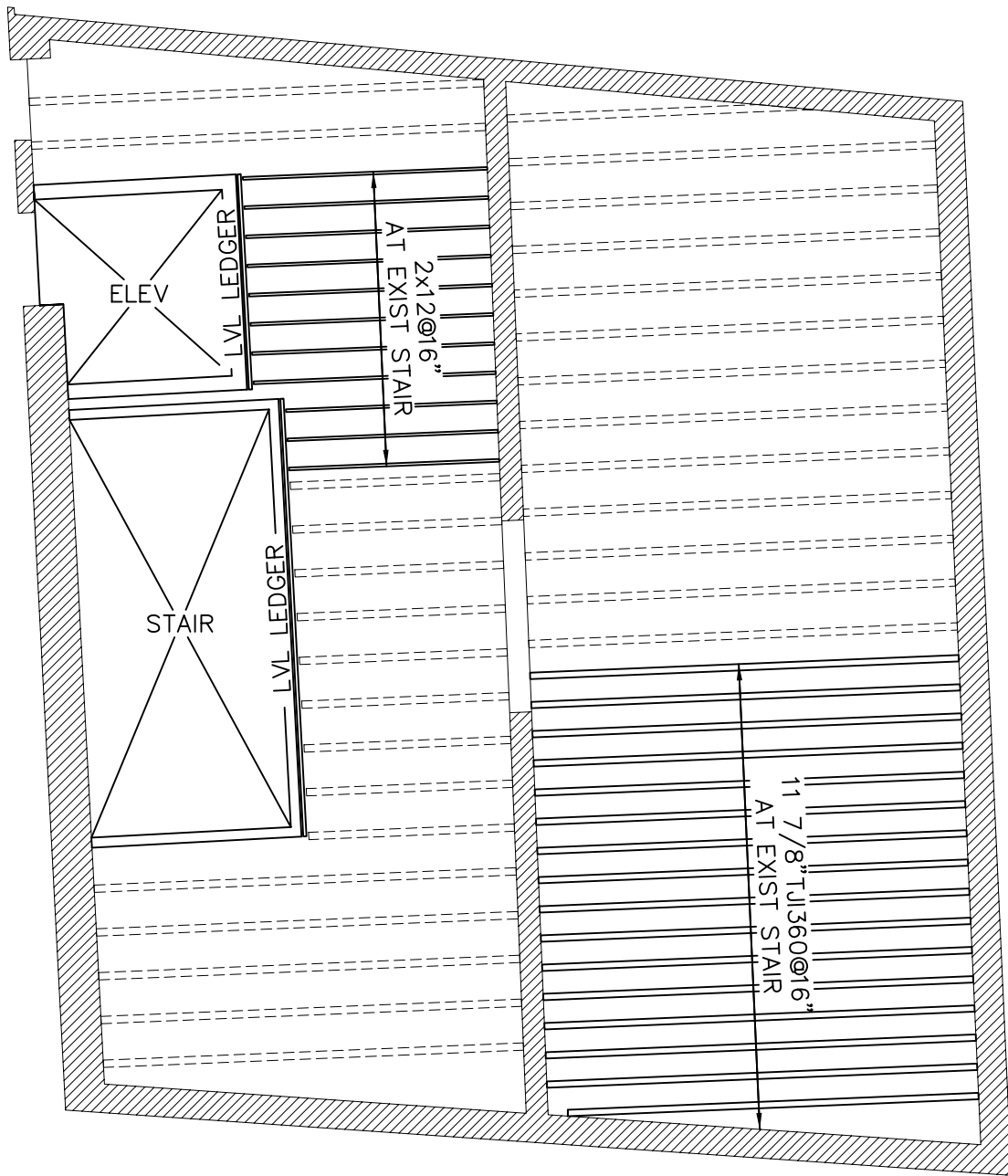


470 FORE ST. 1ST FLR FRAMING

1/8" = 1'-0"

REPLACES FRAMING SHOWN ON S5.
 EXIST FRAMING TO REMAIN SHOWN DASHED.
 ELEV & STAIRWALLS ARE 6", 18 GAGE STEEL STUDS@12".

AD 1.14	ADDENDUM TO SHEET S5	Date 31 August 2007	Scale 1/8" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS <small>48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056</small>
	Project: PORTLAND HARBOR HOTEL ANNEX	STRUCTURAL FRAMING PLAN		
	<small>468-470 FORE STREET PORTLAND, MAINE</small>			

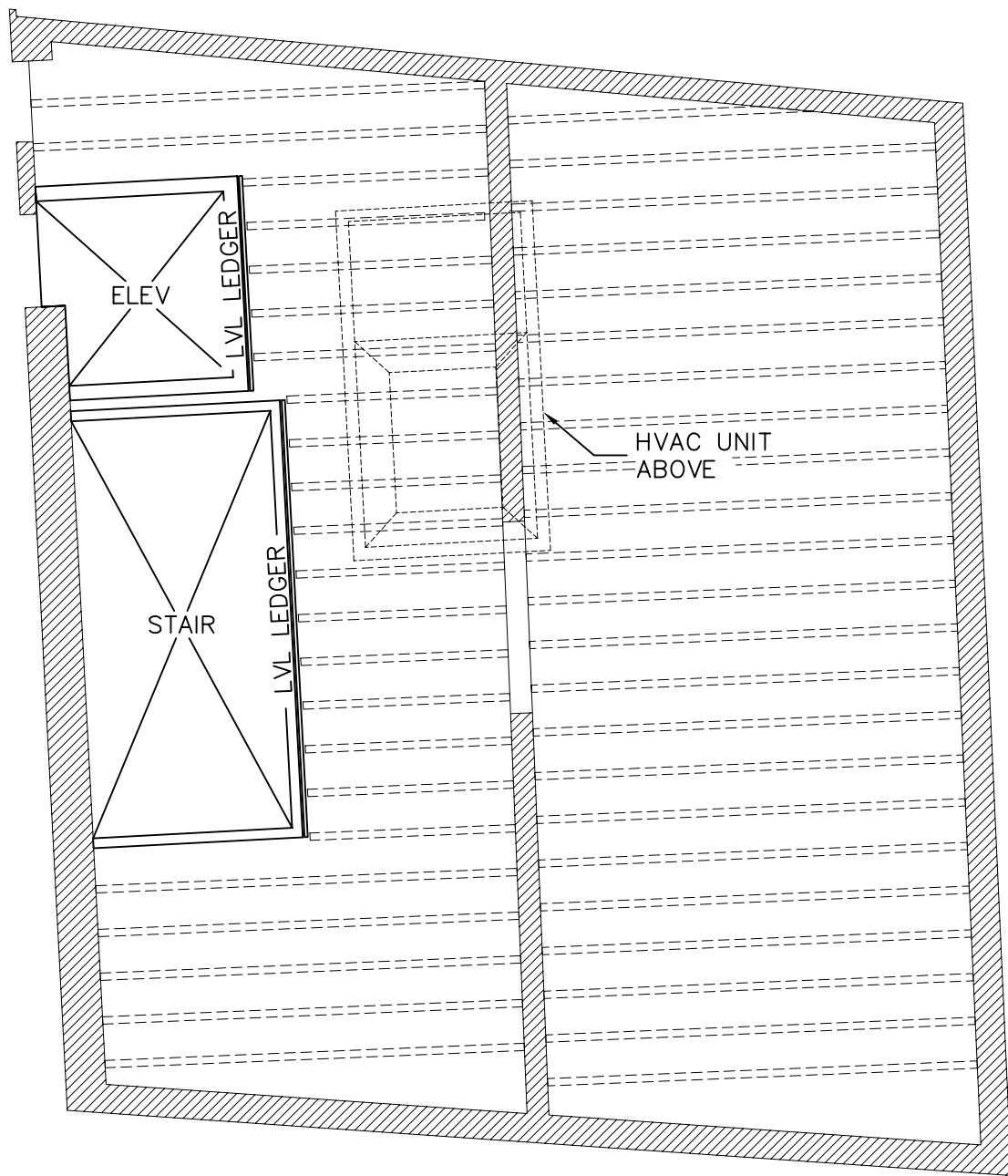


470 FORE ST. 2ND FLR FRAMING

1/8"=1'-0"

REPLACES FRAMING SHOWN ON S6.
 EXIST FRAMING TO REMAIN SHOWN DASHED.
 ELEV & STAIRWALLS ARE 6", 18 GA STEEL STUDS@12".

AD 1.15	ADDENDUM TO SHEET S6	Date 31 August 2007	Scale 1/8" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS 48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056
	Project: PORTLAND HARBOR HOTEL ANNEX	STRUCTURAL FRAMING PLAN		
	468-470 FORE STREET PORTLAND, MAINE			

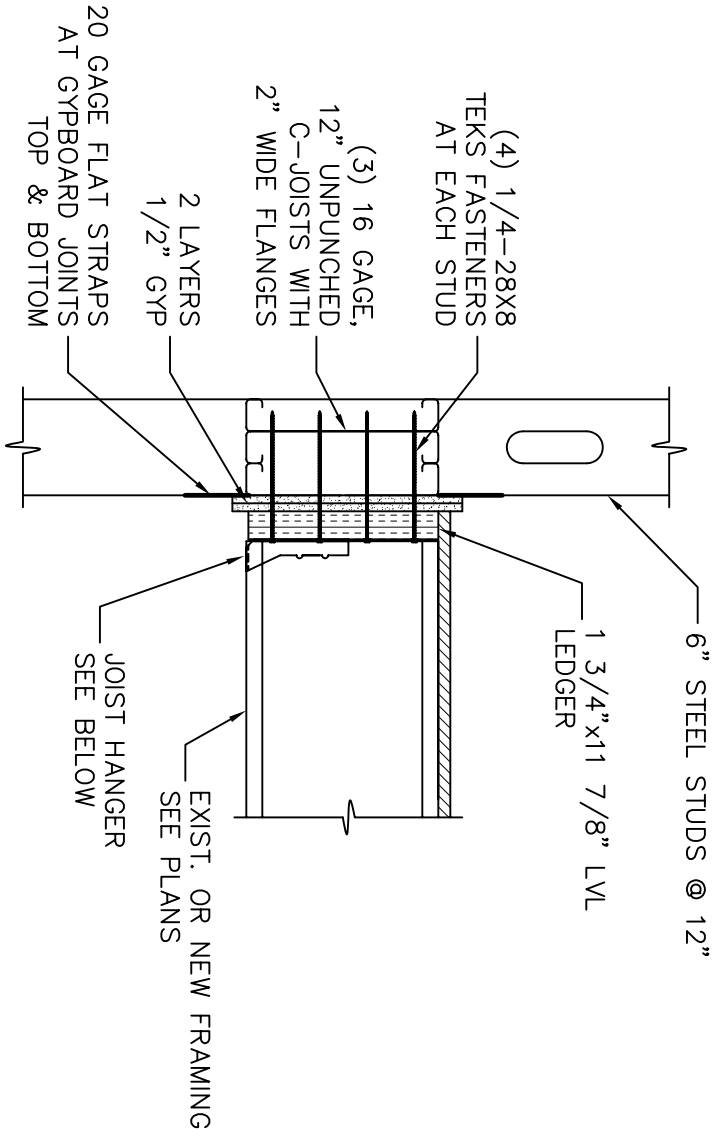


470 FORE ST. ROOF FRAMING

1/8" = 1'-0"

REPLACES FRAMING SHOWN ON S7.
 EXIST FRAMING TO REMAIN SHOWN DASHED.
 ELEV & STAIRWALLS ARE 6", 18 GAGE STEEL STUDS@12".

AD 1.16	ADDENDUM TO SHEET S7	Date 31 August 2007	Scale 1/8" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS <small>48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056</small>
	Project: PORTLAND HARBOR HOTEL ANNEX	STRUCTURAL FRAMING PLAN		
	468-470 FORE STREET PORTLAND, MAINE			

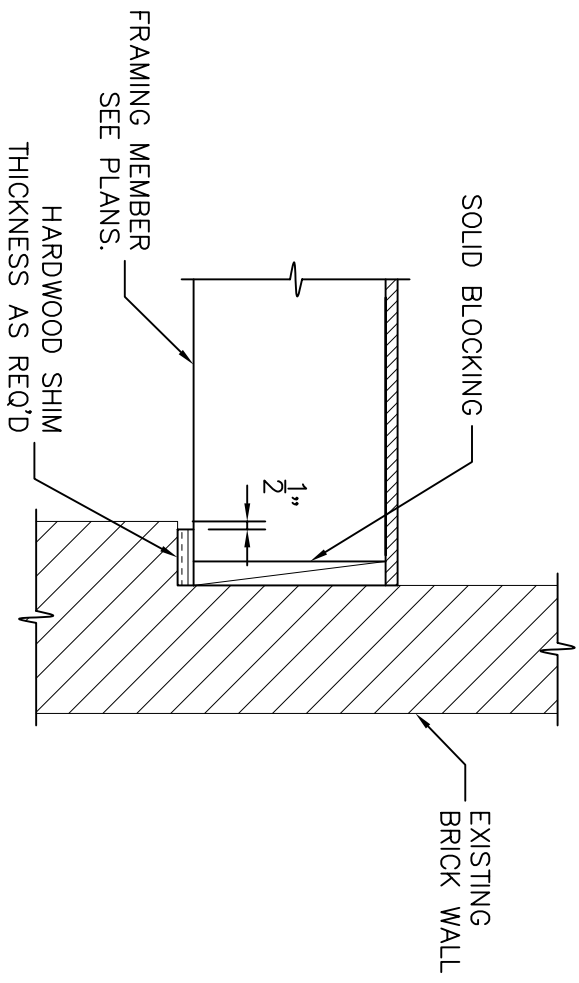


TYPICAL CONNECTION AT STAIR/ELEV

1" = 1'-0"

JOIST HANGERS:
 EXIST 4x8 SIMPSON LUS28-2 FIELD VERIFY ACTUAL WIDTH
 EXIST 4x12 SIMPSON LUS210-2 FIELD VERIFY ACTUAL WIDTH
 NEW 2x12 SIMPSON LUS210

AD 1.17	ADDENDUM TO SHEET S9	Date 31 August 2007	Scale 1" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS 48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056
	Project: PORTLAND HARBOR HOTEL ANNEX 468-470 FORE STREET PORTLAND, MAINE	STRUCTURAL FRAMING DETAILS		



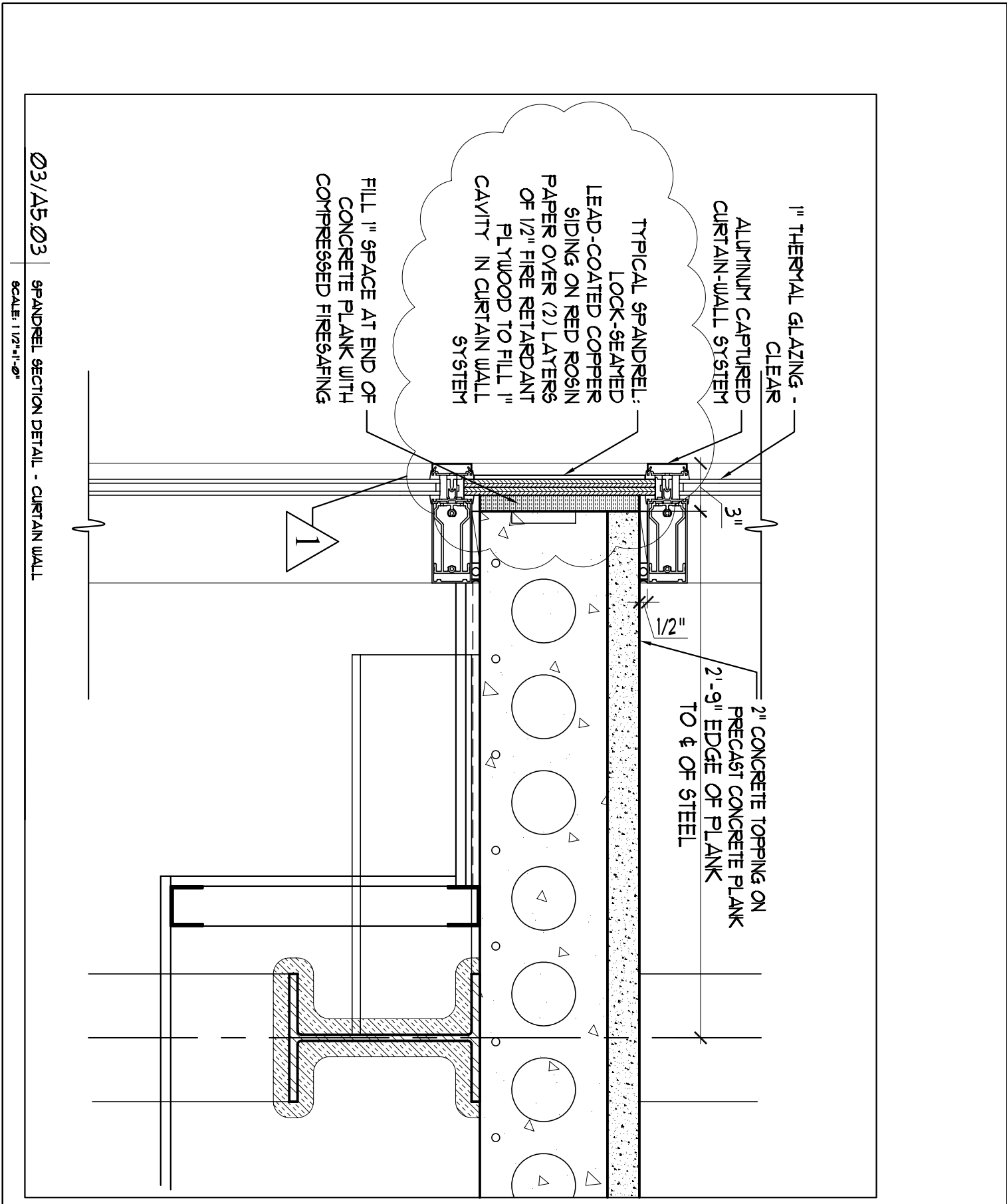
TYPICAL DETAIL AT BRICK BEARING LEDGE
 1" = 1'-0"

AD 1.18

ADDENDUM TO SHEET S9
 Project:
 PORTLAND HARBOR
 HOTEL ANNEX
 468-470 FORE STREET
 PORTLAND, MAINE

Date
 31 August 2007
 Scale
 1" = 1'-0"
 STRUCTURAL
 FRAMING DETAILS

ARCHETYPE, P.A.
 ARCHITECTS
 48 Union Wharf Portland, Maine 04101
 (207) 772-6022 Fax (207) 772-4056



03/A5.03

SPANDREL SECTION DETAIL - CURTAIN WALL

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

AD 1.19

ADDENDUM TO SHEET A5.03
 Project:
 PORTLAND HARBOR
 HOTEL ANNEX
 468-470 FORE STREET
 PORTLAND, MAINE

Date
 31 August 2007
 Scale
 SEE DETAIL
 SPANDREL DETAIL
 CURTAIN WALL

ARCHETYPE, P.A.
 ARCHITECTS
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 (207) 772-6022 Fax (207) 772-4056

ALUMINUM CAPTURED CURTAIN-WALL SYSTEM

FILL 1" SPACE AT END OF CONCRETE PLANK WITH COMPRESSED FIRESAFING

LOCK-SEALED LEAD-COATED COPPER SIDING ON RED ROSIN PAPER OVER (2) LAYERS 1/2" FIRE RETARDANT PLYWOOD TO FILL 1" POCKET IN CURTAIN WALL SYSTEM

EDGE OF GRANITE BEYOND

SPRAY-FOAM INSULATION TO MIN. R-19

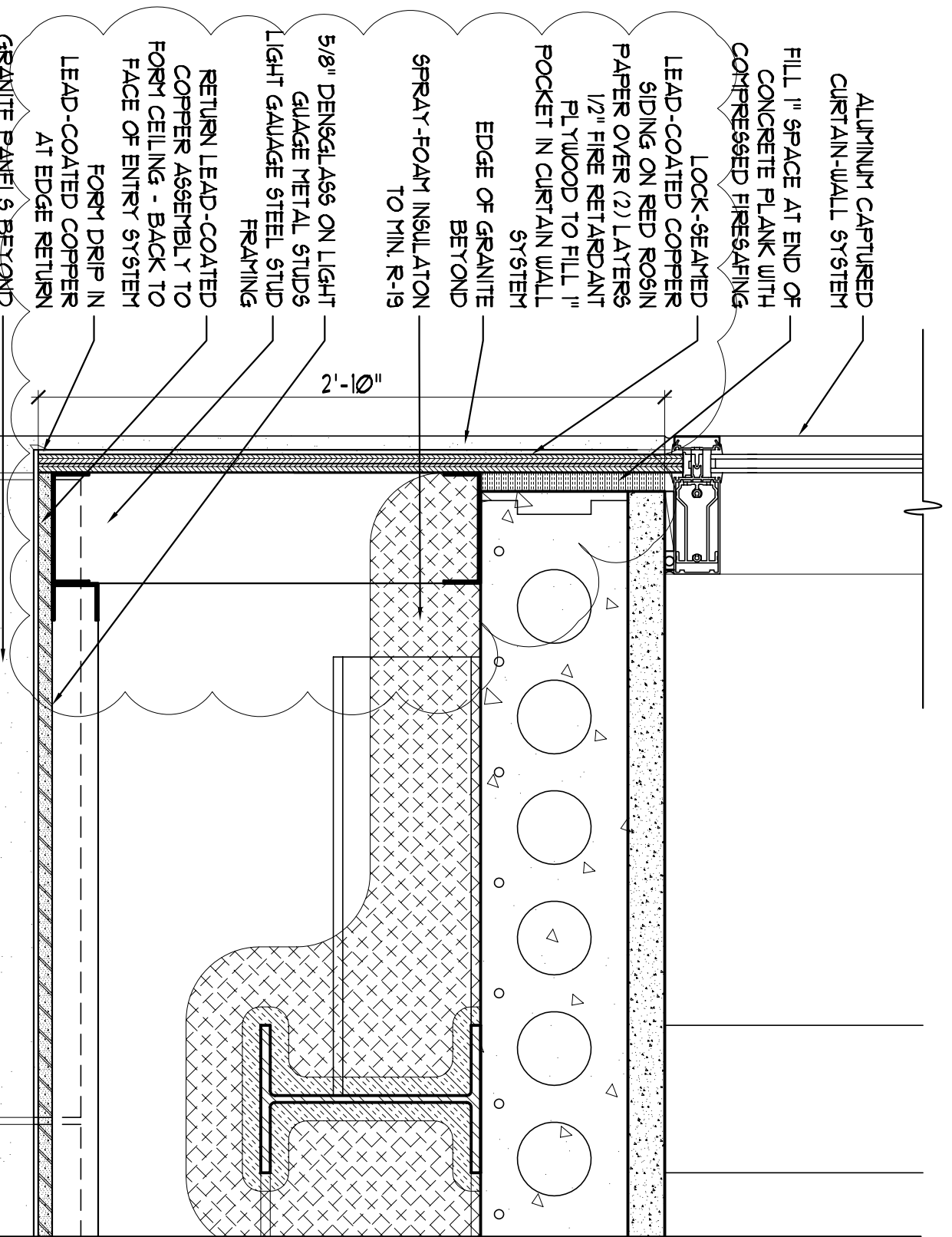
5/8" DENSGLASS ON LIGHT GAUGE METAL STUDS LIGHT GAUGE STEEL STUD FRAMING

RETURN LEAD-COATED COPPER ASSEMBLY TO FORM CEILING - BACK TO FACE OF ENTRY SYSTEM

FORM DRIP IN LEAD-COATED COPPER AT EDGE RETURN

GRANITE PANELS BEYOND

2'-10"



05/A5.03

SPANDREL SECTION DETAIL - CURTAIN WALL AT VESTIBULE ENTRY

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

AD 1.20

ADDENDUM TO SHEET A5.03

Project:

PORTLAND HARBOR HOTEL ANNEX

468-470 FORE STREET
PORTLAND, MAINE

Date

31 August 2007

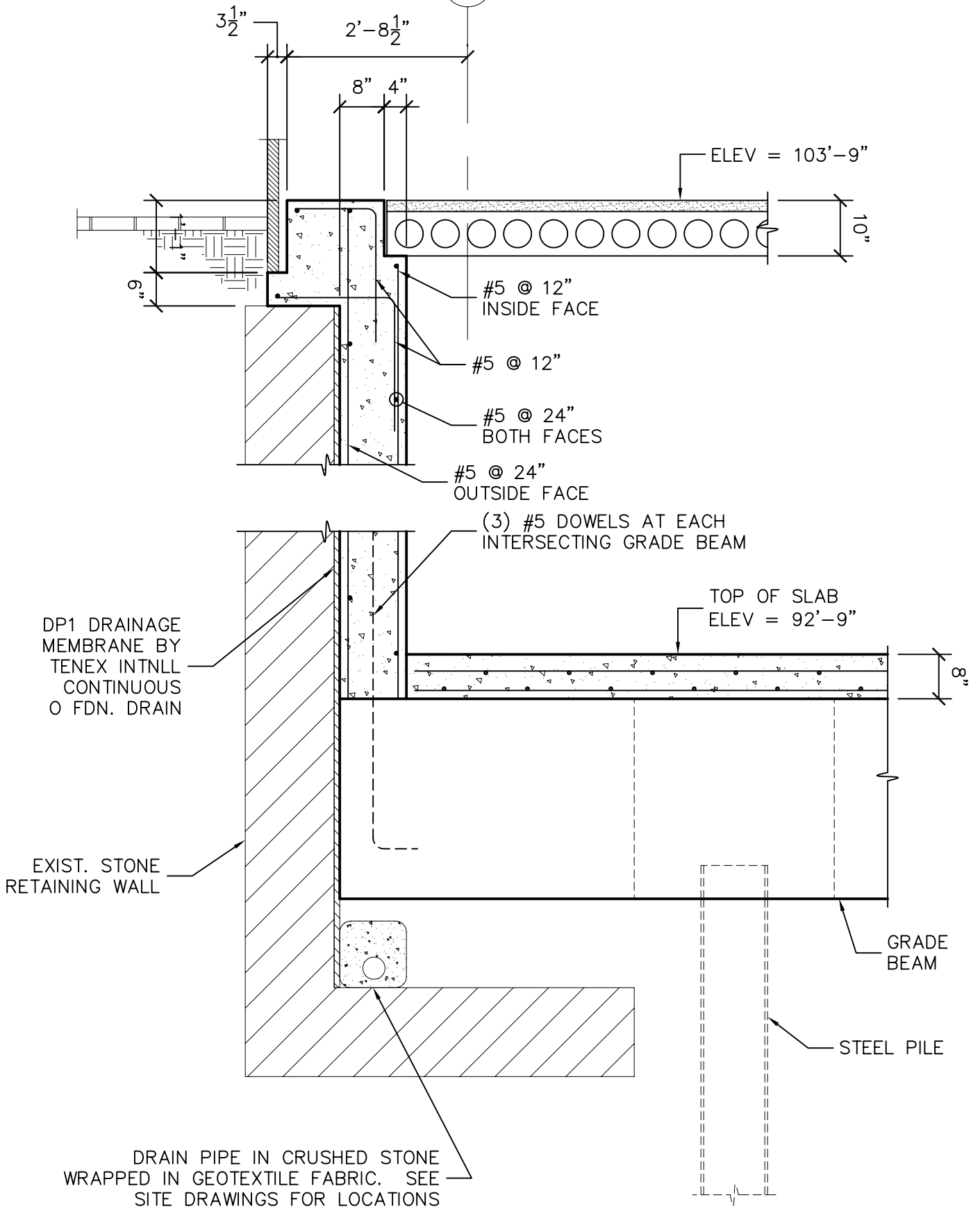
Scale

SEE DETAIL

SPANDREL DETAIL
AT VESTIBULE

ARCHETYPE, P.A.
ARCHITECTS

48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056

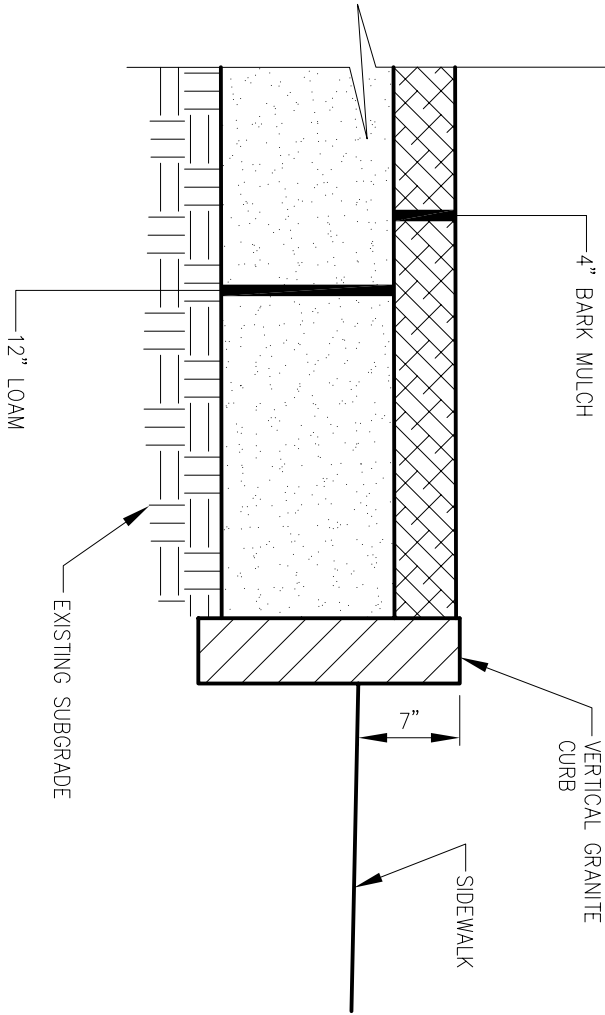


AD 1.21	ADDENDUM TO SHEET S8	Date 31 August 2007	Scale 1/2" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS <small>48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056</small>
	Project: PORTLAND HARBOR HOTEL ANNEX	RETAINING WALL SECTION DETAIL		
	468-470 FORE STREET PORTLAND, MAINE			

6

N.T.S.

RAISED LANDSCAPE PLANTER DETAIL



AD 1.22

ADDENDUM TO SHEET 1 SITE

Project:

PORTLAND HARBOR
HOTEL ANNEX

468-470 FORE STREET
PORTLAND, MAINE

Date

31 August 2007

Scale

SEE DETAIL

PLANTER DETAIL -
SITE DRAWINGS

ARCHETYPE, P.A.
ARCHITECTS

48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056

* FINISH SCHEDULE *

ROOM No.	ROOM Name	FINISH		ROOM No.	ROOM Name	FINISH
100	FITNESS	UNFINISHED - NIC		400	SUITE	UNFINISHED - NIC
101	RETAIL STORAGE	Existing masonry and timber left as painted. New gyp walls painted.		401	SUITE	UNFINISHED - NIC
102	ELEV. MACHINE	Paint walls & ceiling		402	SUITE	UNFINISHED - NIC
103	STAIR ONE	Painted		403	STAIR ONE	Painted
104	ELECTRICAL ROOM	Paint walls & ceiling		404	STAIR TWO	UNFINISHED - NIC
104/105	CORRIDOR	UNFINISHED - NIC		405	STAIR FOUR	UNFINISHED - NIC
				406	CORRIDOR	UNFINISHED - NIC
200	RETAIL	Painted walls. Ceiling NIC		407	CORRIDOR	UNFINISHED - NIC
201	CORRIDOR	UNFINISHED - NIC		408	OFFICE	UNFINISHED - NIC
202	RETAIL	Existing masonry and walls left as painted. New gyp walls painted. New storefront painted. Ceiling existing.		409	CORRIDOR	UNFINISHED - NIC
203	STAIR ONE	Painted		410	TOILET ROOM	UNFINISHED - NIC
				411	OFFICE	UNFINISHED - NIC
300	CONFERENCE	UNFINISHED - NIC				
301	CORRIDOR	UNFINISHED - NIC		500	SUITE	UNFINISHED - NIC
302	STAIR TWO	UNFINISHED - NIC		501	SUITE	UNFINISHED - NIC
303	STAIR ONE	Painted		502	CORRIDOR	UNFINISHED - NIC
304	CORRIDOR	UNFINISHED - NIC		503	STAIR ONE	Painted
305	TOILET	UNFINISHED - NIC		504	SUITE	UNFINISHED - NIC
306	TOILET	UNFINISHED - NIC		505	STAIR FOUR	UNFINISHED - NIC
307	PANTRY	Paint new walls. Existing ACT ceiling left as existing.				
308	PANTRY	Paint new walls. Existing ACT ceiling left as existing.				

AD1.23

ADDENDUM TO SHEET A7.01

Project:

PORTLAND HARBOR
HOTEL ANNEX

468-470 FORE STREET
PORTLAND, MAINE

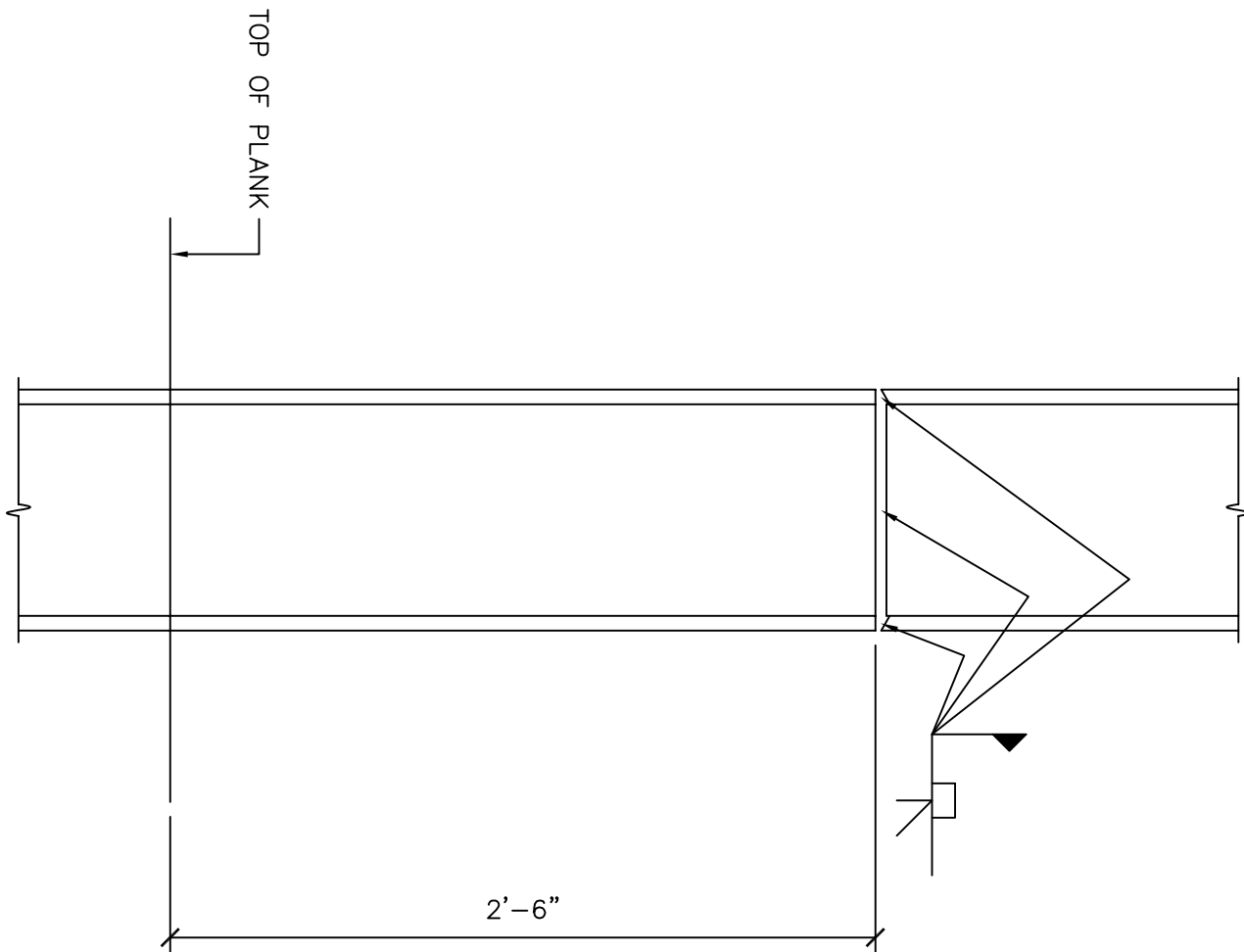
Date
31 August 2007

Scale
NOT TO SCALE

FINISH SCHEDULE

ARCHETYPE, P.A.
ARCHITECTS

48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056



TYPICAL COLUMN SPLICE DETAIL
 1 1/2" = 1'-0"

AD 1.21	ADDENDUM TO SHEET S8	Date 31 August 2007	Scale 1 1/2" = 1'-0"	ARCHETYPE, P.A. ARCHITECTS <small>48 Union Wharf Portland, Maine 04101 (207) 772-6022 Fax (207) 772-4056</small>
	Project: PORTLAND HARBOR HOTEL ANNEX	COLUMN SPLICE DETAIL		
	<small>468-470 FORE STREET PORTLAND, MAINE</small>			



Chemical Specialties, Inc.
 One Woodlawn Green, Suite 350
 200 East Woodlawn Road
 Charlotte, NC 28217
 Phone: (800) 421-8661
 Phone: (704) 522-0825
 Fax: (704) 527-8232
 E-mail: productinfo@chemspec.com
www.treatedwood.com

This MANU-SPEC™ utilizes the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies fire retardant treatment for wood components and wood construction not exposed to the weather, marketed under the D-Blaze® trade name, as manufactured by Chemical Specialties, Inc. Applications include: roof and floor trusses, roof decks and sheathing; subflooring, beams and purlins, blocking and furring, studs, joists and paneling, architectural millwork and trim, interior non-load bearing partitions, exterior load-bearing walls. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles, including 06100 Rough Carpentry, 06200 Finish Carpentry and 06400 Architectural Woodwork.

SECTION 06073
FIRE RETARDANT TREATMENT
(FIRE RETARDANT PRESSURE TREATED WOOD)

PART 1 GENERAL

Specifier Note: D-Blaze Fire Retardant Treated (FRT) lumber and plywood is highly effective against the spread of flame and smoke. Its built-in UL FRS classified properties have a flamespread and smoke rating of 25 or less. D-Blaze FRT materials are independently tested. They qualify with all major building codes and insurance rating bureaus. They are noncorrosive, easy to handle and workable with common tools. In most cases, they feature a lower in-place cost than noncombustible classified materials. Lumber and plywood treated with D-Blaze fire retardant can be used in a variety of interior applications where the humidity is not expected to exceed 95% for prolonged periods and where the wood is not directly exposed to weather. D-Blaze fire retardant treated wood is available for interior applications where fire retardant construction materials are specified.

1.01 SUMMARY

- A. Section Includes: Fire retardant treatment for wood, including roof and floor trusses, roof decks and sheathing; subflooring, beams and purlins, blocking and furring, studs, joists and paneling, architectural millwork and trim, interior non-load bearing partitions and exterior load-bearing walls.

Specifier Note: Revise paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

- B. Related Sections: Section(s) related to this section include:
 1. Rough Carpentry: Division 6 Rough Carpentry Section.
 2. Finish Carpentry: Division 6 Finish Carpentry Section.
 3. Architectural Woodwork: Division 6 Architectural Woodwork Section.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating

edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

1.02 REFERENCES

- A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.
- B. ASTM International:
 - 1. ASTM D3201 Standard Test Method for Hygroscopic Properties of Fire-Retardant Wood and Wood-Base Products.
 - 2. ASTM D5516 Standard Test Method for Evaluating the Flexural Properties of Fire-Retardant Treated Softwood Plywood Exposed to Elevated Temperatures.
 - 3. ASTM D5664 Standard Test Method for Evaluating the Effects of Fire-Retardant Treatments and Elevated Temperatures on Strength Properties of Fire-Retardant Treated Lumber.
 - 4. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. American Wood-Preservers Association (AWPA):
 - 1. AWPA C20 Structural Lumber-Fire-Retardant Treatment by Pressure Processes.
 - 2. AWPA C27 (Type A) Plywood-Fire-Retardant Treatment by Pressure Processes.
 - 3. AWPA P17 Fire Retardant Formulations.
 - 4. (UCFA) U1 Use Category System Specifically for Treated Wood Products.
- D. National Fire Protection Association (NFPA):
 - 1. NFPA 255 Method of Test of Surface Burning Characteristics of Building Materials.
- E. Underwriters Laboratories, Inc. (UL):
 - 1. UL 723 Tests for Surface Burning Characteristics of Building Materials.
- F. Department of Defense (DOD), Military Specification (Mil):
 - 1. MIL-L-19140E Lumber and Plywood, Fire-Retardant Treated.

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide fire retardant treatment which will [Performance criteria] perform in accordance with manufacturer’s stated performance criteria without defects, damage or failure.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect’s and Contractor’s duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit product data, including manufacturer’s SPEC-DATA™ product sheet, for specified products.
- C. Quality Assurance Submittals: Submit the following:
 - 1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
 - a. Evaluation Report: [Specify evaluation report submittal to suit project requirements].
 - 2. Certificates: Certification from treating plant certifying wood treatment applied complies with the criteria and physical requirements for D-Blaze Fire Retardant Treatment by CSI.
- D. Closeout Submittals: Submit the following:
 - 1. Warranty: Warranty documents specified herein.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate below article with Division 1 Quality Assurance Section.

1.05 QUALITY ASSURANCE

- A. Wood Treatment Plant Qualifications: Wood treatment plant experienced in performing work of this section that has specialized in treatment of wood similar to that required for this project and licensed by CSI.

Specifier Note: Retain paragraph below to suit project requirements; otherwise, delete paragraph below.

- 1. Certificate: When requested, submit certificate indicating qualification.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

- B. Regulatory Requirements: Provide fire retardant treatment which complies with the following regulatory requirements:
 - 1. Building Officials and Code Administrators International, Inc. (BOCA), BOCA ES No. 95.42.
 - 2. City of Los Angeles, California, RR 24502.
 - 3. City of New York, New York Building Code, MEA 406; New York Building Code MEA 407.
 - 4. International Conference of Building Officials (ICBO), ICBO ES 5180.
 - 5. Southern Building Code Congress International, Inc. (SBCCI), SBCCI ES No. 9657.
 - 6. National Evaluation Service (NES), NER 562.
- C. Bureau of Ships - Qualified Products Listing.

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 1 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Exposure to precipitation during shipping, storage or installation shall be avoided. If material does become wet, it shall be replaced or permitted to dry (maximum 19% MC for lumber and 15% MC for plywood) prior to covering or enclosure by wallboard or other construction materials (except for protection during construction).

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section.

1.07 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

Specifier Note: Coordinate paragraph below with manufacturer's warranty requirements. CSI offers the following: D-Blaze features a 50 year limited warranty. Refer to D-Blaze 50 year limited warranty brochure or consult manufacturer for complete details.

- 1. Warranty Period: 50 years commencing on Date of Substantial Completion.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 FIRE RETARDANT PRESSURE TREATED WOOD

Specifier Note: D-Blaze Fire Retardant Treated (FRT) lumber and plywood is highly effective against the spread of flame and smoke in weather protected applications. It can be used where building codes permit the use of wood, or fire retardant treated wood. Recommended and typical uses include roof trusses, roof decks and sheathing, beams and purlins, floor trusses, subflooring, joists, interior non-load bearing partitions, exterior load-bearing walls, studs, architectural millwork and trim, blocking and furring, and paneling.

A. Manufacturer: Chemical Specialties, Inc. (CSI).

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

1. Contact: One Woodlawn Green, Suite 250, 200 East Woodlawn Road, Charlotte, NC 28217; Telephone: (800) 421-8661, (704) 522-0825; Fax: (704) 527-8232; E-mail: productinfo@chemspec.com; Web site: www.treatedwood.com.

Specifier Note: D-Blaze is pressure treated deep into the wood; it is not a coating. D-Blaze is noncorrosive. Wood species, which qualify under UL FRS classification, include a variety of softwood lumber, plywood and hardwood lumber. Softwood lumber types include: Alpine fir, Balsam fir, Black spruce, Douglas fir, Englishman spruce, Hem-fir, Jack pine, Lodgepole pine, Ponderosa pine, Red pine, Red spruce, Southern yellow pine, Spruce-pine-fir, Western hemlock, White fir and White spruce. Plywood types include: Douglas fir, Lauan, Red pine and Southern yellow pine. Hardwood lumber types include: Basswood and Red oak. The product is intended for weather protected applications only. It is not to be used in areas subject to precipitation, wetting, dampness or condensation. All wood products must be kiln dried to a maximum moisture content of 19% for lumber and 15% for plywood. Lower moisture contents may be preferred for cabinetry and millwork. Wood treated with D-Blaze fire retardant is paintable, stainable and easy to work with common tools. The product is colorless and nonblooming. It will not darken or discolor most woods.

B. Proprietary Product(s)/System(s): D-Blaze Fire Retardant Pressure Treated Wood.

Specifier Note: D-Blaze FRT wood products protect against corrosion on galvanized steel truss plates as well as other metal fasteners. Testing has shown that with respect to metal corrosion these FRT products maintain metal finish and metal integrity virtually as well as untreated wood exposed to the same conditions. D-Blaze FRT wood has been tested by an independent laboratory in accordance with industry standards to develop strength reduction factors for various use conditions, including roof temperatures up to 150 - 170 degrees F (66 - 77 degrees C). D-Blaze FRT wood shows very low hygroscopicity under relative humidity conditions as high as 95%. It has virtually the same moisture content as untreated wood. Test reports are available to design professionals upon request.

1. Fire Retardant Treatment: Manufacturer's proprietary solution for fire retardant treatment of wood.
2. Treatment Testing: Provide D-Blaze FRT wood treatment which has been tested by Underwriters Laboratories, Inc., (UL) of Northbrook, IL, and has been designated UL classification FRS which signifies a flamespread and smoke developed rating of 25 or less. When tested for 30 minutes, there shall be no evidence of significant progressive combustion. Each piece of treated material shall bear a UL classification stamp and meet or exceed requirements for Class 1 or Class A flamespread ratings.

Specifier Note: Edit article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

2.03 RELATED MATERIALS

- A. General: Refer to Division 6 Wood & Plastics Sections for related wood materials specified herein.
- B. Moisture Content: Provide fire retardant treated wood with moisture content as follows:
1. Lumber: Kiln dried to a maximum moisture content of 19% after treatment.
 2. Plywood: Kiln dried to a maximum moisture content of 15% after treatment.

2.04 SOURCE QUALITY

A. Source Quality: Obtain fire retardant treatment materials from a single manufacturer.

Specifier Note: Coordinate paragraph below with Division 1 Quality Control (Source Quality Control) Section.

B. Tests, Inspections: [Specify tests, inspections and other source quality requirements.]

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 APPLICATION

Specifier Note: For painting, staining or gluing, light sanding or brushing is all that is necessary to ensure proper coating adhesion. Complete installation recommendations are available from the manufacturer. Avoid frequent or prolonged inhalation of sawdust from treated wood. When sawing and machining treated wood, wear a dust mask. When power sawing or machining, wear goggles to protect eyes from flying particles. Surfaces must be clean and dry before application. For best results, application should follow manufacturer's recommendations.

Specifier Note: Coordinate paragraph below with manufacturer's installation instructions to avoid conflicts.

- A. Installation Reference Standard(s): Install fire retardant treatment in accordance with requirements of [List applicable reference standard.].

END OF SECTION

Section 07140
Fluid Applied Waterproofing
Procor® Fluid Applied Membranes Specifications

PART 1 — GENERAL

1.01 RELATED DOCUMENTS

- A. All of the Contract Documents, including General and Supplementary Conditions and Division 1 General Requirements, apply to the work of this section.

1.02 SUMMARY

- A. The work of this section includes, but is not limited to, the following:
 - 1. Fluid applied waterproofing system
 - 2. Prefabricated drainage composite
 - 3. Protection board
- B. Related Sections: Other specification sections which directly relate to the work of this section include, but are not limited to, the following:
 - 1. Section 02710 – Drainage Composites
 - 2. Section 02712 – Subsurface Drainage Pipe
 - 3. Section 03300 – Cast-In-Place Concrete
 - 4. Section 04200 – Unit Masonry
 - 5. Section 05810 – Expansion Joint Cover Assemblies
 - 6. Section 07150 – Dampproofing
 - 7. Section 07600 – Flashing and Sheet Metal
 - 8. Section 07900 – Joint Sealers
 - 9. Section 15400 – Drains

1.03 REFERENCE STANDARDS

- A. The following standards and publications are applicable to the extent referenced in the text.
- B. American Society for Testing and Materials (ASTM)
 - C 836 Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
 - C 898 Standard Guide for Use of High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane With Separate Wearing Course
 - D 412 Standard Test Methods for Rubber Properties in Tension
 - D 903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
 - D 1644 Test Methods for Nonvolatile Content of Varnishes
 - D 1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
 - D 3767 Standard Practice for Rubber - Measurements of Dimensions
 - D 5295 Preparation of concrete Surfaces for Adhered Membrane Waterproofing Systems

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions, use limitations and recommendations.
- B. Samples: Submit representative samples of the following for approval:
 - 1. Fluid applied membrane
 - 2. Protection board
 - 3. Prefabricated drainage composite

1.05 QUALITY ASSURANCE

- A. Installer: A firm which has at least 3 years experience in work of the type required by this section.
- B. Materials: Fluid applied waterproofing material shall be two part synthetic rubber based system free of isocyanates and bitumen. For each type of material required for the work of this section, provide primary materials which are the products of one manufacturer.
- C. Pre-Installation Conference: A pre-installation conference shall be held prior to commencement of field operations to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work. Agenda for meeting shall include review of special details and flashing.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials and products in labeled packages. Store and handle in strict compliance with manufacturer's instructions, recommendations and material safety data sheets. Protect from damage from sunlight, weather, excessive temperatures and construction operations. Remove damaged material from the site and dispose of in accordance with applicable regulations.
 - 1. Do not double-stack pallets of waterproofing material on the job site. Provide cover on top and all sides, allowing for adequate ventilation.
 - 2. Store drainage composite or protection board flat and off the ground. Provide cover on top and all sides.
 - 3. Protect waterproofing materials from freezing. In cool temperatures, store the material for several hours at room temperature to facilitate mixing and application.
- B. Sequence deliveries to avoid delays, but minimize on-site storage.

1.07 PROJECT CONDITIONS

- A. Perform work only when existing and forecasted weather conditions are within the limits established by the manufacturer of the materials and products used.
- B. Proceed with installation only when substrate construction and preparation work is complete and in condition to receive membrane waterproofing.

1.08 WARRANTY

- A. Fluid Applied Waterproofing Membrane: Provide written 5 year material warranty issued by the membrane manufacturer upon completion of the work.

PART 2 — PRODUCTS

2.01 MATERIALS

- A. Fluid Applied Waterproofing Membranes: Procor® fluid applied membranes by Grace Construction Products; a two part, self-curing, synthetic rubber based material. Procor® fluid applied membranes meet or exceed the performance requirements of ASTM C 836 and other ASTM standards as shown in the following table.
- B. Waterproofing Membrane Physical Properties:

PHYSICAL PROPERTIES FOR PROCOR® FLUID APPLIED MEMBRANES:

Property	Test Method	Typical Value
Color		terra cotta
Cured Film Thickness	ASTM D 3767 Method A	1.5 mm (0.060 in.) nominal
Solids Content	ASTM D 1644	100%
Flexibility, 180° bend over 25 mm (1 in.) mandrel at 32°C (-25°F)	ASTM D 1970	Unaffected
Elongation	ASTM D 412	500% minimum
Peel Adhesion to Concrete	ASTM D 903 Modified ¹	880 N/m (5 lbs/in.)

Footnote:

1. Procor waterproofing membrane is applied to concrete and allowed to cure. Peel adhesion of the membrane is measured at a rate of 50 mm (2 in.) per minute with a peel angle of 90° at room temperature.

- C. Prefabricated Drainage Composite: Hydroduct® 660 Drainage Composite by Grace Construction Products for horizontal surfaces. Hydroduct 220 Drainage Composite by Grace Construction Products for all vertical surfaces. Drainage composite shall be designed to promote positive drainage while serving as a protection course.
- D. Protection Board (only if prefabricated drainage composite is not used):
 - 1. Asphalt Hardboard: A premolded semi-rigid protection board consisting of bitumen, mineral core and reinforcement. Provide 3 mm (0.125 in.) thick hardboard on horizontal surfaces not receiving steel reinforced slab. Where steel reinforcing bars are to be used, apply two layers of 3 mm (0.125 in.) thick hardboard or one layer of 6 mm (0.25 in.) thick hardboard.
 - 2. Expanded Polystyrene Protection Board: 25 mm (1 in.) thick for vertical applications with the following characteristics.
 - Normal Density: 16 kg/m³ (1.0 lb/ft³)
 - Thermal Conductivity, K factor: 0.24 at 5°C (40°F), 0.26 at 24°C (75°F)
 - Thermal Resistance, R-Value: 4 per 25 mm (1 in.) of thickness.
- E. Miscellaneous Materials: Tape and other accessories specified or acceptable to manufacturer of fluid applied waterproofing membrane.

PART 3 — EXECUTION

3.01 EXAMINATION

- A. The installer shall examine conditions of substrates and other conditions under which this work is to be performed and notify the contractor, in writing, of circumstances detrimental to the proper completion of the work. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 PREPARATION OF SUBSTRATES

- A. Tie-holes and “bugholes” larger than 13 mm (1/2”) in diameter or deeper than 3 mm (1/8”), or both, should be either pretreated with Procor or repaired with a lean concrete mix or with a lean concrete mix or grout. See ASTM D 5295, Preparation of Concrete Surfaces for Adhered Membrane Waterproofing Systems, for further details on substrate preparation.

Cracked, pitted, honeycombed or heavily bugholed surfaces can be filled by spraying from close in (10” to 12”) but high material usage with result. Under these circumstances it may be more efficient to fill the surface with a parge coat of lean mortar mix before application of the Procor. It is also acceptable to fill in gaps with a compatible sealant or caulk.

- B. Cast-In-Place Concrete Substrates:
 - 1. Waterproofing application may commence as soon as the substrate can accept foot traffic. Surface shall be free of any visible water.
 - 2. Fill form tie rod holes with concrete and finish flush with surrounding surface.
 - 3. Repair bugholes greater than 1/2” (13 mm) in depth and 1/4” (6 mm) in diameter deep and finish flush with surrounding surface.
 - 4. Remove scaling to sound, unaffected concrete and repair exposed area.
 - 5. Grind irregular construction joints to suitable flush surface.
- C. Masonry Substrates: Apply waterproofing over concrete block and brick with smooth trowel-cut mortar joints or parge coat.
- D. Plywood Substrates: Pretreat all plywood joints with 75mm (3 in.) wide, reinforced self-adhesive tape. Secure all fasteners.
- E. Related Materials: Treat joints and install flashing as recommended by waterproofing manufacturer.

3.03 INSTALLATION

- A. Refer to manufacturer’s literature for recommendations on installation, including but not limited to, the following:
 - 1. Apply minimum 1.5 mm (0.060 in.) in all areas to be waterproofed. Apply minimum 3 mm (0.120 in.) in all detail areas.
 - 2. If area to be waterproofed is in direct sunlight and temperature is rising, apply “scratch coat” (a thin application of fluid applied waterproofing) prior to the full application of the waterproofing membrane.
 - 3. In applications where a minimum slope of 11 mm/m (0.13 in./ft) cannot be achieved, a two coat application of Procor membrane is recommended to achieve the total thickness.
 - 4. Apply protection board and related materials in accordance with manufacturer’s recommendations.

3.04 CLEANING AND PROTECTION

- A. Remove any masking materials after installation. Clean any stains on materials which would be exposed in the completed work.
- B. Protect completed membrane waterproofing from subsequent construction activities as recommended by manufacturer.

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