

FROM: Allied Engineering, Inc.
160 Veranda Street
Portland, Maine 04103
Telephone: (207) 221-2260

Date: 01/05/16

TO: Prospective Bidders, Suppliers, and Other Parties

RE: Addendum No. **1 (One)** to the Bidding Documents for:
AMHI Potting Shed Conversion, Augusta, ME 04333

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated 12/22/2015. Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of (6) Six pages and (8) Eight drawings & (13) Thirteen Sketches SK's (1) one REVISED Wage Determination Schedule

INDEX

CHANGES TO SPECIFICATIONS

1. SECTION 000110 Table of content
2. SECTION 004113 Notice to Bidders
3. SECTION 007346 Wage Determination Schedule
4. SECTION 083613 Sectional Doors

ATTACHMENTS

DRAWINGS:

1. DRAWING PL-0 PLUMBING AND HVAC NOTE, LEGEND AND ABBREVIATIONS
2. DRAWING PL-1 PLUMBING PLANS
3. DRAWING MH-1 MECHANICAL PLANS
4. DRAWING E-0 ELECTRICAL LEGEND, NOTES, AND ABBREVIATIONS
5. DRAWING E-2 ELECTRICAL DETAILS
6. DRAWING EL-1 ELECTRICAL LIGHTING PLANS
7. DRAWING EP-1 ELECTRICAL POWER AND SYSTEM PLANS
8. DRAWING ES-1 ELECTRICAL SITE PLAN

SKETCHES

1. CSK-1 REVISIONS TO SITE PLAN
2. CSK-2 REVISIONS TO GRADING PLAN
3. SKA-01 REVISION TO D1/A-1 FIRST FLOOR PLAN (PARTIAL PLAN VIEW)
4. SKA-02 REVISION TO E1/A-4 DOOR AND DOOR FRAME TYPES
5. SKA-03 REVISION TO E6/A-4 SCHEDULES (DOOR AND WINDOW)
6. SKA-04 TYPICAL WINDOW HEAD/JAMB/SILL DETAIL
7. SKA-05 OVERHEAD DOOR HEAD DETAIL AT DOOR 001 (BASEMENT)
8. SKA-06 OVERHEAD DOOR JAMB DETAIL AT DOOR 001 (BASEMENT)
9. SKA-07 OVERHEAD DOOR HEAD DETAIL AT DOOR 102 (FIRST FLOOR)
10. SKA-08 OVERHEAD DOOR JAMB DETAIL AT DOOR 102 (FIRST FLOOR)
11. SKA-09 REVISIONS TO DETAIL A4/A-4 AND C3/A-5
12. SKA-10 REVISION TO DETAIL A1/A-4
13. SKP -01 RE-PRINTED DEMOLITIONS KEYED NOTES ~ A9 - SHEET PD-1

I. CHANGES TO THE SPECIFICATIONS

A. Division 00

1. SECTION 000110 Table of content :
 - a. **DELETE** DIVISION 08 in its entirety
 - b. **ADD** in its place:
 - DIVISION 8 OPENINGS
 - SECTION 083613 SECTIONAL DOORS
 - Division 8 DOORS & WINDOWS (on drawing A-0)
2. SECTION 004113 Notice to Bidders
 - a. **DELETE** paragraph D. 8. In its entirety
 - b. **ADD** in its place:
 - D. 8. Bid documents - Full sets only – will be available after December 28, 2015 at no cost at BGS website: http://www.maine.gov/bgs/constrpublic/contractors/gc_rfp.htm
3. SECTION 007346 Wage Determination Schedule
 - a. **DELETE** “Wage determination Schedule” in its entirety
 - b. **ADD** in its place REVISED Wage determination schedule
4. SECTION 083613 SECTIONAL DOORS
 - a. **ADD** section 083613 SECTIONAL DOORS in its entirety

II CHANGES TO THE DRAWINGS

A. DRAWING C-1 SITE PLAN

1. **ADD** CSK -1 for modifications to site plan

B. DRAWING C-2 GRADING PLAN

1. **ADD** CSK-2 for modifications to Grading Plan

C. DRAWING SF-5

1. DETAIL F3
 - a. **DELETE** note “ CHANNEL JAMB BEHIND FINISH” in its entirety
 - b. **ADD** in its place:
 - “EXPOSED JAMB CHANNEL – FASTEN TO EXISTING FOUNDATION WALL w/1/2”Ø ASTM A706, GR.60 RODS @ 24”O.C. SET IN EPOXY w/SCREEN TUBES IN EXISTING MASONRY JOINTS, 3-1/2” MIN. EMBED. PRE-DRILL HOLES IN CHANNEL, WELD RODS TO EXTERIOR FACE OF CHANNEL, CUT OFF AND GRIND SMOOTH. TOUCH-UP GALV.
2. DETAIL F6
 - a. **DELETE** note “ CHANNEL JAMB BEHIND FINISH” in its entirety
 - b. **ADD** in its place:
 - “CHANNEL JAMB BEHIND FINISH – FASTEN TO EXISTING MASONRY WALL w/1/2”Ø HILTI HAS RODS @ 24”O.C. SET IN EPOXY w/SCREEN TUBES IN EXISTING MASONRY JOINTS, 3-1/2” MIN. EMBED. PRE-DRILL HOLES IN CHANNEL.

D. DRAWING A-0

1. **DELETE** Note 7.2 in its entirety
2. **ADD** in its place:
 - 7.2 Spray-foam insulation at exterior framed/furred walls and Basement Storage Area ceiling shall be closed cell urethane insulation in R value indicated. Apply fire barrier coating on all exposed spray foam insulation in basement.
3. **DELETE** Note 7.3 in its entirety
4. **ADD** in its place :
 - 7.3 See SKA-10.
5. **DELETE** Note 7.4 in its entirety
6. **ADD** in its place :
 - 7.4 See SKA-09
7. **DELETE** Note 8.5 in its entirety
8. **ADD** in its place :
 - 8.5 All door hardware shall have US10B Oil-Rubbed Bronze finish (BMHA #612). Refer to Division 26 for conduit and junction boxes at doors with electrified hardware. Hardware Sets shall be as follows:

HW-1

- 2 Butts
- Owner supplied & installed - 1 Electrified Hinge – Marray TEF2+4-10B or Security Door Control PTH2-4-H
- Owner supplied & installed - 1 Lever Lockset – Sargent 70-8271-12VDC-LL-10B-LH or Schlage L9080EU BDC 06A 10B
- Owner supplied & installed - 1 Request to Exit Motion – Intellisense IS-3100W or Detection System DS150i
- Owner supplied & installed - 1 Door Position Switch – Sentrol / GE Interlogix 1078C-M
- Owner supplied & installed - 1 Card Reader – HID 5355ABN00
- 1 Closer – LCN 4040XP-RA Dark Bronze (No Exception)
- 1 Threshold – ADA compliant
- 1 Weather-stripping Set – Head & Jambs
- 1 Door Bottom
- 1 Door Stop

HW-2

- 3 Butts
- Lever Lockset – Sargent 49-8568-LL-10B-RHT or Schlage L9044-064-10B w/ Occupancy Indicator 09-611
- 1 Door Stop
- 2 Silencers

HW-3 All items below are Owner supplied & installed:

- 1 Lock Cylinder Housing that accepts 7-pin Small Format
- Interchangeable Core (SFIC) – No Exceptions
- Available Manufacturers include:
- SFIC Rim Housing by KSP 308-10B
- SFIC Rim Housing by Schlage 7-Pin C953-613
- 1 Door Position Switch – Sentrol / GE Interlogix 2315A-L
- 1 Card Reader HID 5355ABN00

HW-4 All items below are Owner supplied & installed:

- 1 Lock Cylinder Housing that accepts 7-pin Small Format
- Interchangeable Core (SFIC) – No Exceptions
- Available Manufacturers include:
- SFIC Rim Housing by KSP 308-10B
- SFIC Rim Housing by Schlage 7-Pin C953-613
- 1 Door Position Switch – Sentrol / GE Interlogix 2315A-L

7. **ADD NOTE 8.6**

8.6 SUBMITTALS

- A. Product Data: For each type of product (door, door frame, hardware, and window).
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

9. DRAWING A-1

1. Detail A1

1. **DELETE** note “ WORK BENCH in its entirety
2. **ADD** in its place:

WORK BENCH:

2' (W) X 8' (L) X 3' (H) FREE STANDING PRESSURE TREATED W/ 304 GRADE STAINLESS STEEL LAMINATED TOP – WRAP EDGES

2. Detail D1

- a. **DELETE** Stair detail in its entirety
- b. **ADD** in its place SKA-01
- c. **DELETE** NOTE “42” HIGH PTD METAL GUARDRAIL AT RAMP WALLS”
- d. **ADD** in its place:
42” HIGH 10 LONG METAL GUARDRAIL ATOP EACH RETAINING, PRIMED AND PAINTED EXTENDING FROM BUILDING WALL

3. DETAIL A6

- a. **DELETE** note “3'-4"x15'-0" ACCESS HATCH AT ATTIC FLOOR, ~ WEIGHT = 225LBS” in its entirety
- b. **ADD** in its place :
“3'-4"x15'-0" ACCESS HATCH AT ATTIC FLOOR, ~ WEIGHT = 325LBS”

10. DRAWING A-2 ARCHITECTURAL – PROPOSED EXTERIOR ELEVATIONS

1. DETAILS:A1, A5, E1, AND E6

- a. **DELETE** Elevation “ SECOND FLR EL=109'-4-3/4” in its entirety
- b. **ADD** in its place SECOND FLR = 109'-5-5/8”

11. DRAWING A-3 ARCHITECTURAL BUILDING SECTIONS AND DETAILS
 1. Detail D1
 - a **DELETE** Elevation “ SECOND FLR EL=109’-4-3/4” in its entirety
 - b **ADD** in its place SECOND FLR = 109’-5-5/8”

12. DRAWING A-4
 1. Detail E1
 - a **DELETE** DOOR FRAME TYPES in their entirety
 - b **ADD** in their place SKA-02
 2. DETAIL E6
 - a **DELETE** door schedule and window schedule in their entirety
 - b **ADD** in their place Door schedule and Window on SKA-03

13. DRAWING A-5 Detail A5
 1. **ADD** NOTE: TUBE STEEL AND FLAT PLATE SUPPORTS TO BE INSTALLED AT EACH END, ON EACH SIDE OF 3 WINDOWS AND MAX 4’ O.C. BETWEEN WINDOWS.
 2. DETAIL E3
 - a **DELETE** note “R12.5 MIN. SPRAY FOAM INSULATION” in its entirety
 - b **ADD** IN ITS PLACE:
R12.5 MIN. SPRAY FOAM INSULATION W/ FIRE BARRIER COATING

14. ARCHITECTURAL DETAILS
 1. **ADD** SKA-04 Typical window/ Head/jamb detail
 2. **ADD** SKA-05 Overhead door Head Detail at door 001 (basement)
 3. **ADD** SKA-06 Overhead door Jamb Detail at door 001 (basement)
 4. **ADD** SKA-07 Overhead door Head Detail at door 102 (first floor)
 5. **ADD** SKA-08 Overhead door Jamb Detail at door 102 (first floor)

15. DRAWING E-0 ELECTRICAL LEGEND, NOTES, AND ABBREVIATIONS:
 1. **DELETE** in its entirety
 2. **ADD** in its place DRAWING E-0 ELECTRICAL LEGEND, NOTES, AND ABBREVIATIONS (Revised 01/05/16)

16. DRAWING E-2 ELECTRICAL DETAILS:
 1. **DELETE** in its entirety
 2. **ADD** in its place DRAWING E-2 ELECTRICAL DETAILS (Revised 01/05/16)

17. **DRAWING ES-1 ELECTRICAL SITE PLAN:**
 1. **DELETE** in its entirety
 2. **ADD** in its place DRAWING ES-1 ELECTRICAL SITE PLAN (Revised 01/05/16)

18. **DRAWING EL-1 ELECTRICAL LIGHTING PLANS:**
 1. **DELETE** in its entirety
 2. **ADD** in its place **DRAWING EL-1 ELECTRICAL LIGHTING PLANS** (Revised 01/05/16)

19. **DRAWING EP-1 ELECTRICAL POWER AND SYSTEM PLANS:**
 1. **DELETE** in its entirety
 2. **ADD** in its place DRAWING EP-1 ELECTRICAL POWER AND SYSTEM PLANS (Revised 01/05/16)

20. DRAWING PD-1 MECHANICAL DEMOLITION

1. **DELETE** A9 DEMOLITION KED NOTES in its entirety

2. **ADD** in its place SKP-01 RE-PRINTED DEMOLITION KEYED NOTES

21. DRAWING PL-0 PLUMBING AND HVAC NOTE, LEGEND AND ABBREVIATIONS

1. **DELETE** in its entirety

2. **ADD** in its place **DRAWING PL-0 PLUMBING AND HVAC NOTE, LEGEND AND ABBREVIATIONS** (Revised 01/05/16)

22. DRAWING PL-1 PLUMBING PLANS

1. **DELETE** in its entirety

2. **ADD** in its place **DRAWING PL-1 PLUMBING PLANS** (Revised 01/05/16)

23. DRAWING MH-1 MECHANICAL PLANS (Revised 01/05/16)

1. **DELETE** in its entirety

2. **ADD** in its place **DRAWING MH-1 MECHANICAL PLANS** (Revised 01/05/16)

THIS DOCUMENT MUST BE CLEARLY POSTED AT THE PERTAINING STATE FUNDED PREVAILING WAGE CONSTRUCTION SITE

REVISED

State of Maine
 Department of Labor
 Bureau of Labor Standards
 Wage and Hour Division
 Augusta, Maine 04333-0045
 Telephone (207) 623-7906

Wage Determination - In accordance with 26 MRSA §1301 et. seq., this is a determination by the Bureau of Labor Standards, of the fair minimum wage rate to be paid laborers and workers employed on the below titled project.

Title of Project -----Potting Shed Renovation

Location of Project --Augusta, Kennebec County

**2016 Fair Minimum Wage Rates
 Building 2 Kennebec County
 (other than 1 or 2 family homes)**

<u>Occupation Title</u>	<u>Minimum Wage</u>	<u>Minimum Benefit</u>	<u>Total</u>	<u>Occupation Title</u>	<u>Minimum Wage</u>	<u>Minimum Benefit</u>	<u>Total</u>
Asbestos/Lead Removal Worker	\$13.00	\$0.51	\$13.51	Insulation Installer	\$19.25	\$2.33	\$21.58
Assembler - Metal Building	\$13.63	\$3.38	\$17.01	Ironworker - Reinforcing	\$21.00	\$6.80	\$27.80
Boom Truck (Truck Crane) Operator	\$21.00	\$2.85	\$23.85	Ironworker - Structural	\$23.20	\$20.52	\$43.72
Bricklayer	\$22.00	\$2.68	\$24.68	Laborers (Incl. Helpers & Tenders)	\$14.00	\$0.35	\$14.35
Bulldozer Operator	\$17.63	\$3.24	\$20.87	Laborers - Skilled	\$16.00	\$1.20	\$17.20
Carpenter	\$21.00	\$3.47	\$24.47	Loader Operator - Front End	\$17.21	\$2.66	\$19.87
Carpenter - Acoustical	\$15.00	\$2.68	\$17.68	Mechanic - Maintenance	\$20.00	\$2.79	\$22.79
Carpenter - Rough	\$18.65	\$0.16	\$18.81	Mechanic - Refrigeration	\$20.00	\$3.63	\$23.63
Cement Mason/Finisher	\$17.75	\$2.15	\$19.90	Millwright	\$23.95	\$19.19	\$43.14
Communication Equipment Installer	\$24.04	\$8.00	\$32.04	Oil/Fuel Burner Servicer & Installer	\$24.43	\$6.13	\$30.56
Concrete Pump Operator	\$24.25	\$5.40	\$29.65	Painter	\$18.75	\$0.00	\$18.75
Crane Operator <15 Tons	\$21.25	\$2.58	\$23.83	Paperhanger	\$17.00	\$3.16	\$20.16
Crane Operator =>15 Tons	\$24.50	\$6.61	\$31.11	Pipe/Steam/Sprinkler Fitter	\$26.25	\$13.84	\$40.09
Crusher Plant Operator	\$15.80	\$3.76	\$19.56	Pipe Layer	\$19.33	\$2.37	\$21.70
Dry-Wall Applicator	\$21.50	\$2.63	\$24.13	Plasterer	\$43.93	\$27.43	\$71.36
Dry-Wall Taper & Finisher	\$25.00	\$3.00	\$28.00	Plumber (Licensed)	\$25.00	\$3.16	\$28.16
Electrician - Licensed	\$25.00	\$5.47	\$30.47	Plumber Helper/Trainee (Licensed)	\$17.59	\$2.61	\$20.20
Electrician Helper/Cable Puller Licensed	\$16.00	\$2.31	\$18.31	Propane & Natural Gas Service & inst. (Licensed)	\$21.00	\$3.87	\$24.87
Elevator Construction/Installer	\$53.30	\$33.36	\$86.66	Roofer	\$15.00	\$1.15	\$16.15
Excavator Operator	\$19.06	\$2.44	\$21.50	Sheet Metal Worker	\$20.59	\$4.76	\$26.01
Fence Setter	\$15.25	\$1.32	\$16.57	Sider	\$22.75	\$4.33	\$27.08
Flagger	\$16.70	\$7.95	\$24.65	Stone Mason	\$17.80	\$0.00	\$17.80
Floor Layer	\$19.50	\$4.51	\$24.01	Tile Setter	\$21.25	\$4.76	\$26.01
Furniture Installer/Assembler	\$13.75	\$0.85	\$14.60	Truck Driver - Light	\$15.00	\$0.99	\$15.99
Glazier	\$20.82	\$2.71	\$23.53	Truck Driver - Medium	\$15.00	\$0.10	\$15.10
Grader/Scraper Operator	\$17.50	\$1.04	\$18.54	Truck Driver - Heavy	\$14.25	\$0.83	\$15.08
Heating Ventilation Air Conditioning	\$24.31	\$4.63	\$28.94	Truck Driver - Tractor Trailer	\$16.24	\$3.28	\$19.52

The Laborer classifications include a wide range of work duties. Therefore, if any specific occupation to be employed on this project is not listed in this determination, call the Bureau of Labor Standards at the above number for further clarification.

Welders are classified in the trade to which the welding is incidental.

Apprentices - The minimum wage rate for registered apprentices are those set forth in the standards and policies of the Maine State Apprenticeship and Training Council for approved apprenticeship programs.
 Posting of Schedule - Posting of this schedule is required in accordance with 26 MRSA §1301 et. seq., by any contractor holding a State contract for construction valued at \$50,000 or more and any subcontractors to such a contractor.

Appeal - Any person affected by the determination of these rates may appeal to the Commissioner of Labor by filing a written notice with the Commissioner stating the specific grounds of the objection within ten (10) days from the filing of these rates with the Secretary of State.

Determination No: B2-003-2016
 Filing Date: December 23, 2015
 Expiration Date: 12-31-2016

A true copy _____
 Attest: *Verna Eldridge*
 Verna Eldridge
 Wage & Hour Director
 Bureau of Labor Standards

SECTION 083613 - SECTIONAL DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes electrically operated sectional doors.
- B. Related Requirements:
 - 1. Section 055000 "Metal Fabrications" for miscellaneous steel supports.
 - 2. Division 6 on sDrawing A-0 for wood bucks

1.3 ACTION SUBMITTALS

- A. Product Data: For each type and size of sectional door and accessory.
 - 1. Include construction details, material descriptions, dimensions of individual components, profile door sections, and finishes.
 - 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.
 - 1. Include plans, elevations, sections, and mounting details.
 - 2. Include details of equipment assemblies. Indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
- C. Samples for Initial Selection: For units with factory-applied finishes.
 - 1. Include Samples of accessories involving color selection.
- D. Samples for Verification: For each type of exposed finish on the following components, in manufacturer's standard sizes:

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranties: For special warranties.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For sectional doors to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of sectional doors that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Failure of components or operators before reaching required number of operation cycles.
 - c. Faulty operation of hardware.
 - d. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
 - e. Delamination of exterior or interior facing materials.
 - 2. Warranty Period: one (1) year from date of Substantial Completion.
- B. Special Finish Warranty: Manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain sectional doors from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Sectional doors shall comply with performance requirements specified without failure due to defective manufacture, fabrication, installation, or other defects in construction.
- B. Structural Performance, Exterior Doors: Capable of withstanding the design wind loads.
1. Design Wind Load: Uniform pressure (velocity pressure) of 20 lbf/sq. ft., acting inward and outward.
 2. Deflection Limits: Design sectional doors to withstand design wind loads without evidencing permanent deformation or disengagement of door components.
 - a. Deflection of door sections in horizontal position (open) shall not exceed 1/120 of the door width.
 - b. Deflection of horizontal track assembly shall not exceed 1/240 of the door height.
 3. Operability under Wind Load: Design overhead coiling doors to remain operable under uniform pressure (velocity pressure) of 20 lbf/sq. ft. wind load, acting inward and outward.

2.3 DOOR ASSEMBLY

- A. Steel Sectional Door: Sectional door formed with hinged sections and fabricated according to DASMA 102 unless otherwise indicated.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Amarr Garage Doors.
 - b. Clopay Building Products.
 - c. Haas Door.
 - d. Overhead Door Corporation.
 - e. Raynor.
 - f. Rite-Hite Corporation.
 - g. Wayne-Dalton Corp.
 2. Bases of design: Overhead Door Corp, Courtyard Collection Model 162E.
 - a. Door to be custom size 6' x 7'
- B. Air Infiltration: Maximum rate of 0.08 cfm/sq. ft. at 15 and 25 mph when tested according to ASTM E 283.
- C. Installed R-Value: 12.76 deg F.
- D. Steel Sections: Zinc-coated (galvanized) steel sheet with G90 zinc coating.
1. Section Thickness: 1-3/8 inches.
 2. Exterior-Face, Steel Sheet Thickness: 0.012-inch- nominal coated thickness.

- a. Surface: Manufacturer's standard, paneled wood-grain embossed.
- 3. Insulation: Foamed in place.
- 4. Interior Facing Material: Zinc-coated (galvanized) steel sheet with a nominal coated thickness of manufacturer's recommended dimension to comply with performance requirements.
- E. Track Configuration: Low-headroom track.
- F. Weatherseals: Fitted to bottom and top and around entire perimeter of door.
- G. Windows: one row at height indicated on Drawings; installed with glazing of the following type:
 - 1. Insulating Glass: Manufacturer's standard.
- H. Roller-Tire Material: Manufacturer's standard.
- I. Locking Device Assembly: locking bars, operable from inside with thumbturn outside with cylinder.
 - 1. See hardware schedule on drawing A-0 for Door security hardware requirements to be provided under division 8.
- J. Counterbalance Type: Torsion spring.
- K. Manual Door Operator: Push-up operation
- L. Door Finish:
 - 1. Baked-Enamel or Powder-Coat Finish: Color and gloss as selected by Architect from manufacturer's full range.
 - 2. Finish of Interior Facing Material: Finish as selected by Architect from manufacturer's full range.

2.4 STEEL DOOR SECTIONS

- A. Exterior Section Faces and Frames: Zinc-coated (galvanized), cold-rolled, commercial steel (CS) sheet, complying with ASTM A 653/A 653M, with indicated zinc coating and thickness.
 - 1. Fabricate section faces from single sheets to provide sections not more than 24 inches high and of indicated thickness. Roll horizontal meeting edges to a continuous, interlocking, keyed, rabbeted, shiplap, or tongue-in-groove weather-resistant seal, with a reinforcing flange return.
 - 2. For insulated doors, provide sections with continuous thermal-break construction, separating the exterior and interior faces of door.
- B. Section Ends and Intermediate Stiles: Enclose open ends of sections with channel end stiles formed from galvanized-steel sheet not less than 0.064-inch-nominal coated thickness and welded to door section. Provide intermediate stiles formed from not less than 0.064-inch-thick galvanized-steel sheet, cut to door section profile, and welded in place. Space stiles not more than 48 inches apart.

- C. Reinforce bottom section with a continuous channel or angle conforming to bottom-section profile.
- D. Reinforce sections with continuous horizontal and diagonal reinforcement, as required to stiffen door and for wind loading. Provide galvanized-steel bars, struts, trusses, or strip steel, formed to depth and bolted or welded in place.
- E. Provide reinforcement for hardware attachment.
- F. Foamed-in-Place Thermal Insulation: Insulate interior of steel sections with door manufacturer's standard CFC-free polyurethane insulation, foamed in place to completely fill interior of section and pressure bonded to face sheets to prevent delamination under wind load, and with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, according to ASTM E 84. Enclose insulation completely within steel sections and the interior facing material, with no exposed insulation.
- G. Interior Facing Material: Zinc-coated (galvanized), cold-rolled, commercial steel (CS) sheet, complying with ASTM A 653/A 653M, with manufacturers standard thickness.
- H. Fabricate sections so finished door assembly is rigid and aligned, with tight hairline joints and free of warp, twist, and deformation.

2.5 TRACKS, SUPPORTS, AND ACCESSORIES

- A. Tracks: Manufacturer's standard, galvanized-steel track system of configuration indicated, sized for door size and weight, designed for lift type indicated and clearances indicated on Drawings, Provide complete system including brackets, bracing, and reinforcement to ensure rigid support of ball-bearing roller guides for required door type, size, weight, and loading.
 - 1. Galvanized Steel: ASTM A 653/A 653M, minimum G60 zinc coating.
 - 2. Slope tracks at an angle from vertical or design tracks to ensure tight closure at jambs when door unit is closed.
 - 3. Track Reinforcement and Supports: Galvanized-steel members to support track without sag, sway, and vibration during opening and closing of doors. Slot vertical sections of track spaced 2 inches apart for door-drop safety device.
 - a. For Vertical Track: Continuous reinforcing angle attached to track and attached to wall with jamb brackets.
 - b. For Horizontal Track: Continuous reinforcing angle from curve in track to end of track, attached to track and supported at points by laterally braced attachments to overhead structural members.
 - 1) Provide angle iron and or channel between floor joist as required to support the end of the track.
- B. Weatherseals: Replaceable, adjustable, continuous, compressible weather-stripping gaskets of flexible vinyl, rubber, or neoprene fitted to bottom and top of sectional door unless otherwise indicated.
- C. Windows: Manufacturer's standard insulated window units of type, size, and in arrangement indicated. Set glazing in vinyl, rubber, or neoprene glazing channel for metal-framed doors

and elastic glazing compound for wood doors, as required. Provide removable stops of same material as door-section frames.

2.6 HARDWARE

- A. Hinges: Heavy-duty, galvanized-steel hinges of not less than 0.079-inch-nominal coated thickness at each end stile and at each intermediate stile, according to manufacturer's written recommendations for door size. Attach hinges to door sections through stiles and rails with bolts and lock nuts or lock washers and nuts. Use rivets or self-tapping fasteners where access to nuts is impossible. Provide double-end hinges where required, for doors more than 16 feet wide unless otherwise recommended by door manufacturer.
- B. Rollers: Heavy-duty rollers with steel ball-bearings in case-hardened steel races, mounted with varying projections to suit slope of track. Extend roller shaft through both hinges where double hinges are required. 2-inch-diameter roller tires for 2-inch-wide track.
- C. Push/Pull Handles: Equip each push-up operated or emergency-operated door with galvanized-steel lifting handles on each side of door, finished to match door.
- D. Garage door Decorative Hardware options: To be selected by architect from manufacturers full range of decorative hinges and handles.

2.7 COUNTERBALANCE MECHANISM

- A. Torsion Spring: Counterbalance mechanism consisting of adjustable-tension torsion springs fabricated from steel-spring wire complying with ASTM A 229/A 229M, mounted on torsion shaft made of steel tube or solid steel. Provide springs designed for number of operation cycles indicated.
- B. Cables: Galvanized-steel, multistrand, lifting cables with cable safety factor of at least 5 to 1.
- C. Cable Safety Device: Include a spring-loaded steel or spring-loaded bronze cam mounted to bottom door roller assembly on each side and designed to automatically stop door if either lifting cable breaks.
- D. Bracket: Provide anchor support bracket as required to connect stationary end of spring to the wall and to level the shaft and prevent sag.
- E. Bumper: Provide spring bumper at each horizontal track to cushion door at end of opening operation.

2.8 MANUAL DOOR OPERATORS

- A. General: Equip door with manual door operator by door manufacturer.
- B. B. Push-up Operation: Lift handles and pull rope for raising and lowering doors, with counterbalance mechanism designed so that required lift or pull for door operation does not exceed [25 lbf.

2.9 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM/NOMMA's "Metal Finishes Manual for Architectural and Metal Products (AMP 500-06)" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.10 STEEL AND GALVANIZED-STEEL FINISHES

- A. Factory Prime Finish: Manufacturer's standard primer, compatible with field-applied finish. Comply with coating manufacturer's written instructions for cleaning, pretreatment, application, and minimum dry film thickness.
- B. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard baked-on finish consisting of prime coat and thermosetting topcoat. Comply with coating manufacturer's written instructions for cleaning, pretreatment, application, and minimum dry film thickness.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install sectional doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Tracks:
 - 1. Fasten vertical track assembly to opening jambs and framing, spaced not more than 24 inches apart.
 - 2. Hang horizontal track assembly from structural overhead framing with angles or channel hangers attached to framing by welding or bolting, or both. Provide sway bracing, diagonal bracing, and reinforcement as required for rigid installation of track and door-operating equipment.
- C. Accessibility: Install sectional doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.

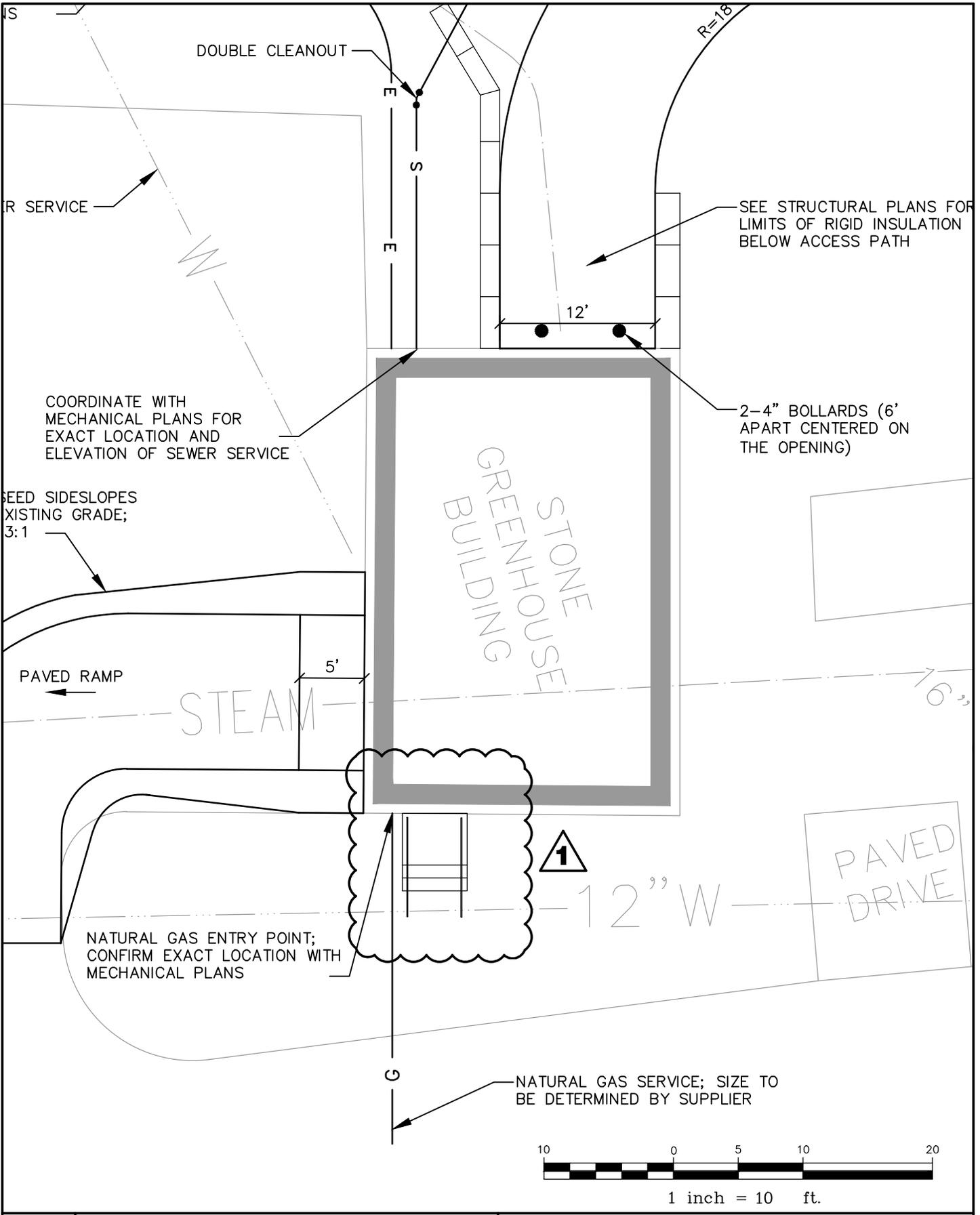
3.3 STARTUP SERVICES

- A. Engage a factory-authorized service representative to perform startup service.
 - 1. Complete installation and startup checks according to manufacturer's written instructions.

3.4 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- B. Lubricate bearings and sliding parts as recommended by manufacturer.
- C. Adjust doors and seals to provide weather-resistant fit around entire perimeter.
- D. Touch-up Painting: Immediately after welding galvanized materials, clean welds and abraded galvanized surfaces and repair galvanizing to comply with ASTM A 780/A 780M.

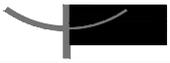
END OF SECTION 083613



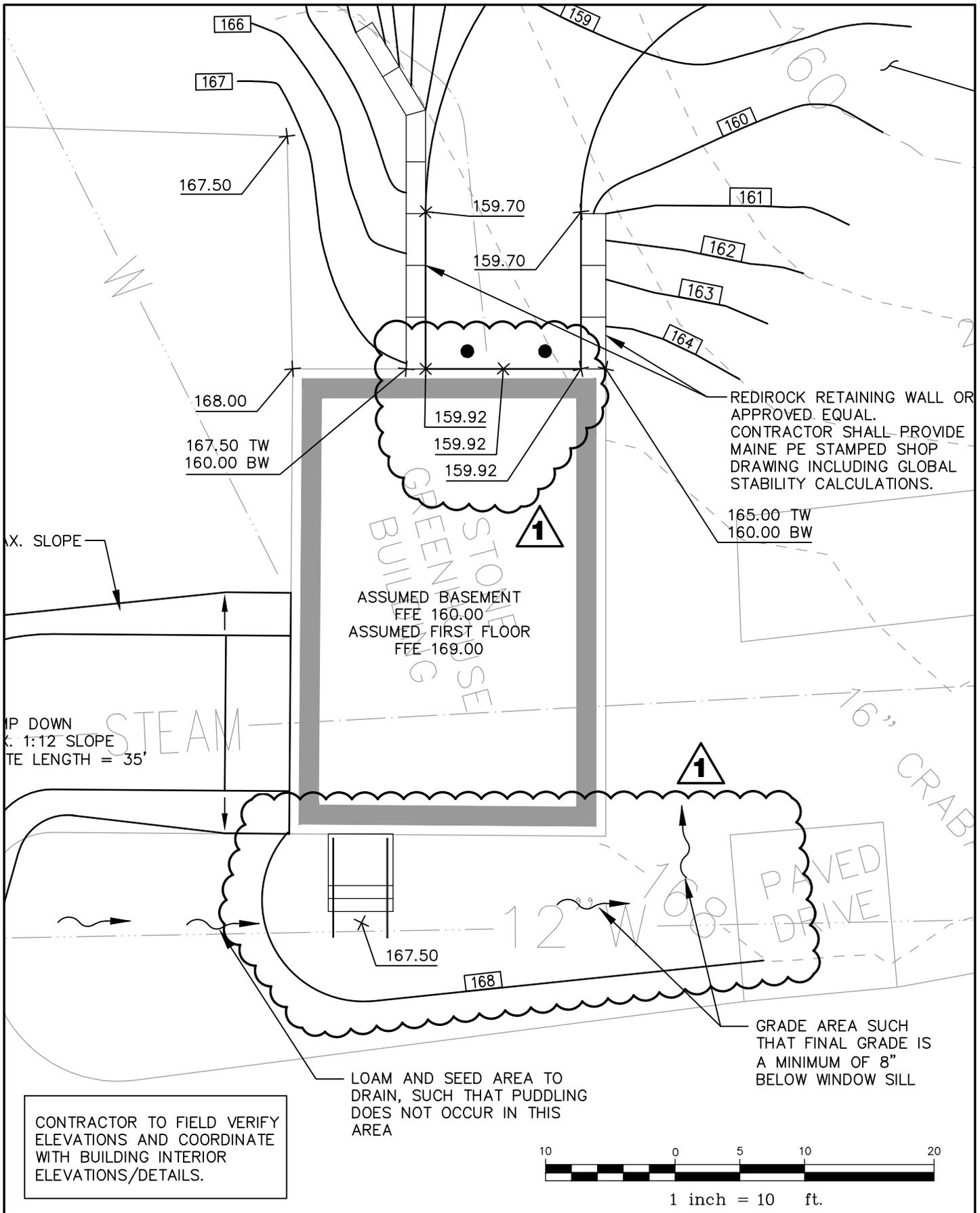
ADDENDUM #1 CSK-1	REVISIONS TO SITE PLAN	
	AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES	
	SCALE: 1" = 10'	PROJ NO:
	DATE: 01/05/2016	CAD FILE:



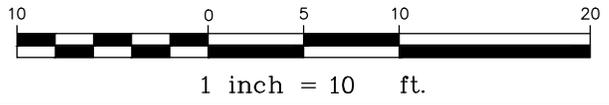
Allied Engineering
Structural Mechanical Electrical Commissioning

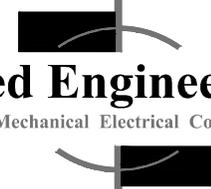


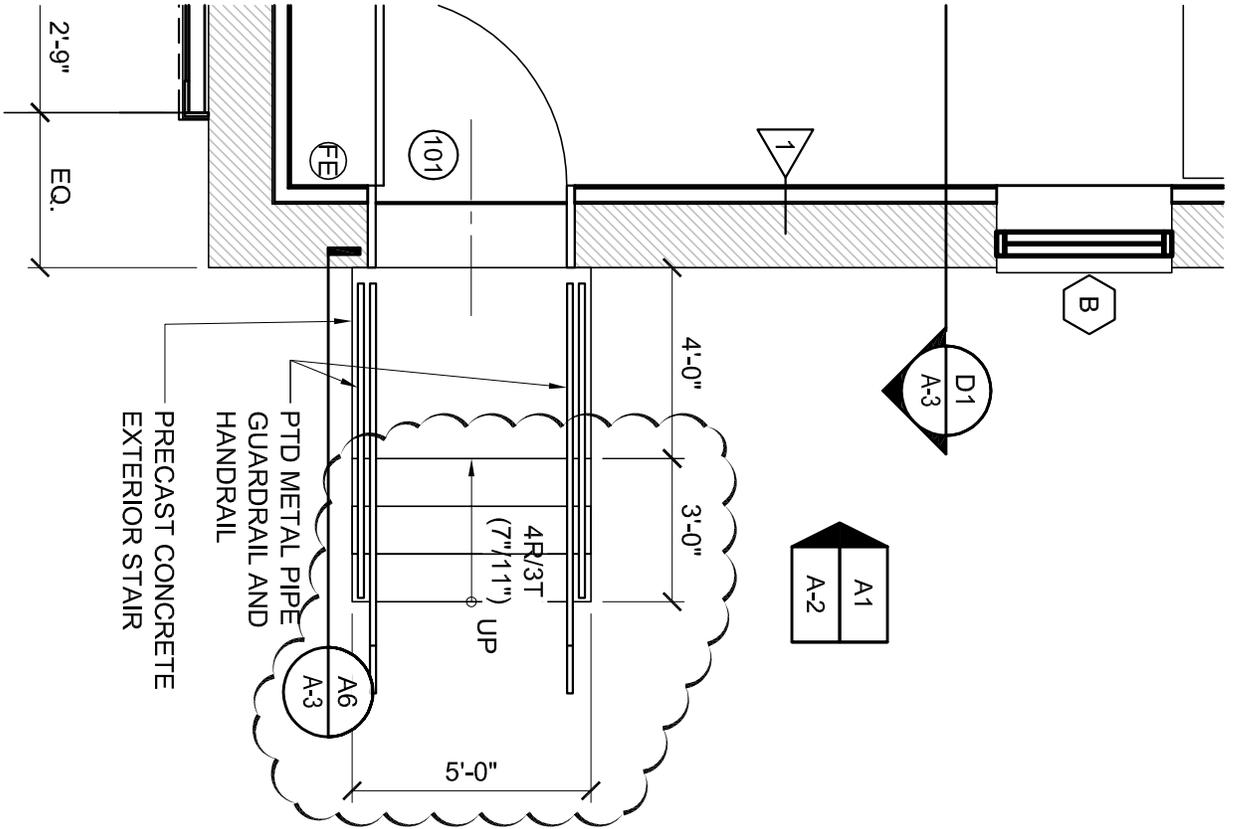
160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com



CONTRACTOR TO FIELD VERIFY ELEVATIONS AND COORDINATE WITH BUILDING INTERIOR ELEVATIONS/DETAILS.



ADDENDUM #1 CSK-2	REVISIONS TO GRADING PLAN		 <p>Allied Engineering Structural Mechanical Electrical Commissioning 160 Veranda Street Portland, Maine 04103 T: 207.221.2260 F: 207.221.2266 Web: www.allied-eng.com</p>
	AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES		
	SCALE: 1" = 10'	PROJ NO:	
	DATE: 01/05/2016	CAD FILE:	



PTD METAL PIPE
GUARDRAIL AND
HANDRAIL

PRECAST CONCRETE
EXTERIOR STAIR

SKA-01
ADDENDUM #1

REVISION TO D1/A-1 FIRST FLOOR PLAN (PARTIAL PLAN VIEW)	
AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES	
SCALE: 1/4" = 1'-0"	PROJ NO: 15056
DATE: 01/05/2016	CAD FILE: 15056A.dwg



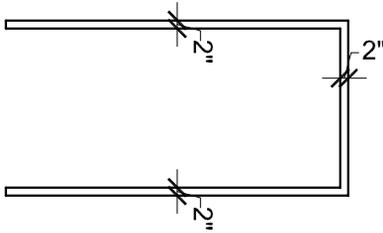
Allied Engineering

Structural Mechanical Electrical Commissioning



160 Veranda Street
Portland, Maine 04103

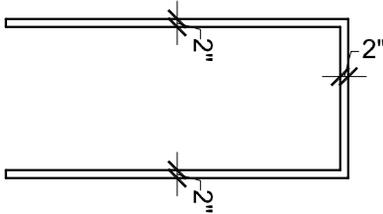
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com



(A)

PTD CUSTOM WOOD FRAME WITH
BRICKMOLD EXTERIOR TRIM
MATCH EXISTING FRAME AND
BRICKMOLD PROFILE

DOOR FRAME TYPES



(B)

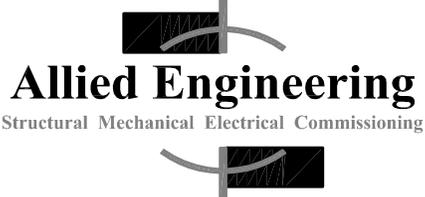
PTD H.M. DRYWALL
PROFILE FRAME 2" x
WALL DEPTH

REVISION TO E1/A-4 DOOR AND DOOR FRAME
TYPES

AMHI - POTTING SHED CONVERSION
FOR BUREAU OF GENERAL SERVICES

SCALE: NTS	PROJ NO: 15056
DATE: 01/05/2016	CAD FILE: 15056A.dwg

SKA-02
ADDENDUM #1



160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

DOOR SCHEDULE

		DOORS				GLASS		REMARKS
NO	TYPE	SIZE	THK	INSUL	HDWR	FR	TYPE	SIZE
		(w x h)						
001	A	6'-0" X 7'-0"	M/GR	YES	HW-3	NO	TH	(2) 12" X 24"
101	B	3'-6" X 7'-0"	1-3/4"	NO	HW-1	NO	T/TH	24" X 24"
102	A	6'-0" X 7'-0"	M/GR	YES	HW-4	NO	TH	(2) 12" X 24"
103	C	3'-0" X 7'-0"	1-3/4"	NO	HW-2	NO	NONE	NONE

DOOR SCHEDULE CONTINUED

NO	TYPE	FR	TYPE	DETAILS		MATERIAL	THRESHOLDS	
				HEAD	JAMB		SILL	FIN
001	SEE DETAIL	NONE	NONE	SKA-05	SKA-06	RUBBER	A1/SB-1	CONC
101	WOOD	NONE	A	MATCH EXIST	MATCH EXIST	ALUM		
102	SEE DETAIL	NONE	NONE	SKA-07	SKA-08	NONE	F8/SF-5	CONC
103	MTL	NONE	B	MFG STD	MFG STD	NONE	NA	NA

NOTE: SEE SHEET A-0 FOR HARDWARE SCHEDULE

WINDOW SCHEDULE

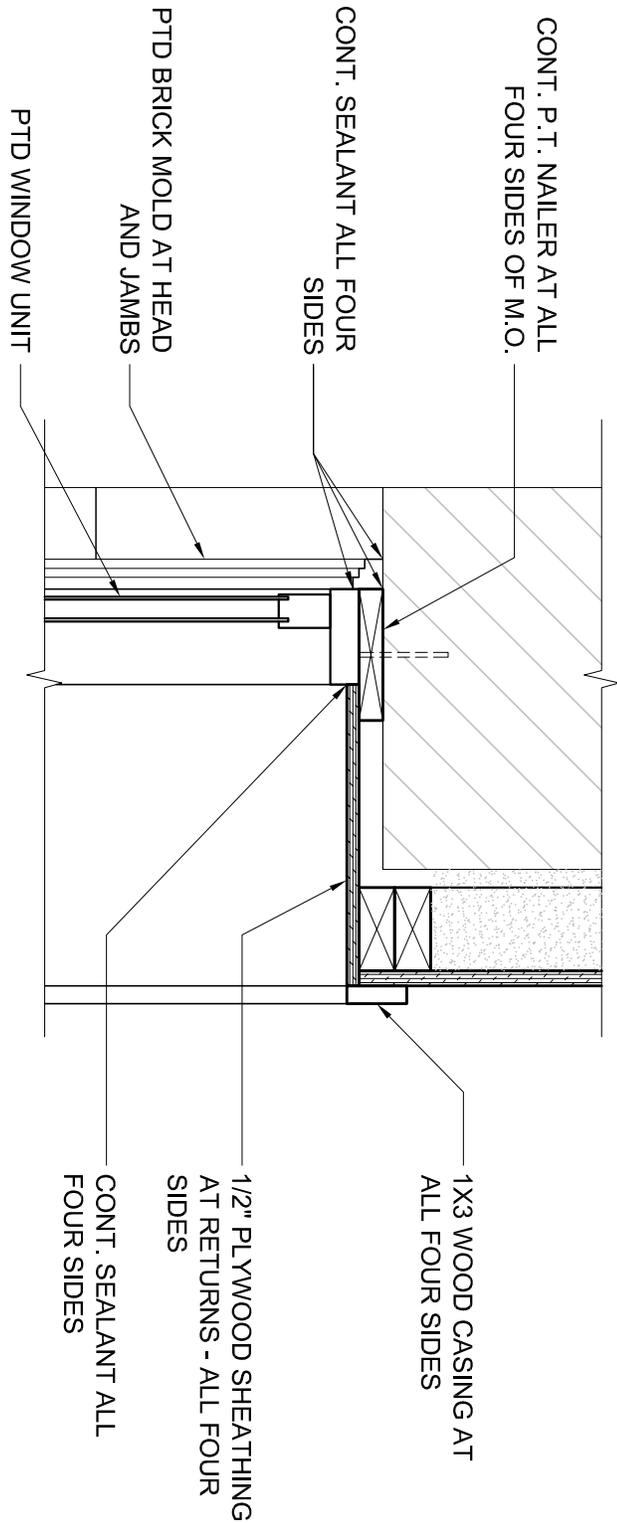
NO	TYPE	MANUFACTURER			NOMINAL SIZE		DETAILS				REMARKS	
		MATERIAL	MODEL		WIDTH	HEIGHT	HEAD	JAMB	SILL	MUNT		MULL
A	FIXED	WOOD	CUSTOM		3'-8"	1'-4"	SKA-04*	SKA-04*	SKA-04*	NA	NA	*MATCH HISTORIC
B	DOUBLE HUNG	WOOD	CUSTOM		3'-8"	5'-2"	SKA-04*	SKA-04*	SKA-04*	NA	NA	*MATCH HISTORIC
C	DOUBLE HUNG (FIXED)	WOOD	CUSTOM		4'-4"	7'-0"	A4/A-4*	A4/A-4*	A4/A-4*	NA	NA	*MATCH HISTORIC

SKA-03 ADDENDUM #1	REVISION TO E6/A-4 SCHEDULES (DOOR AND WINDOW)	
	AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES	
	SCALE: NTS	PROJ NO: 15056
	DATE: 01/05/2016	CAD FILE: 15056A.dwg



Allied Engineering
Structural Mechanical Electrical Commissioning

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com



NOTE: SIMILAR AT DOOR 101 (HEAD AND JAMBS)

TYPICAL WINDOW HEAD/JAMB/SILL DETAIL

AMHI - POTTING SHED CONVERSION
FOR BUREAU OF GENERAL SERVICES

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

DATE: 01/05/2016

PROJ NO: 15056

CAD FILE: 15056A.dwg

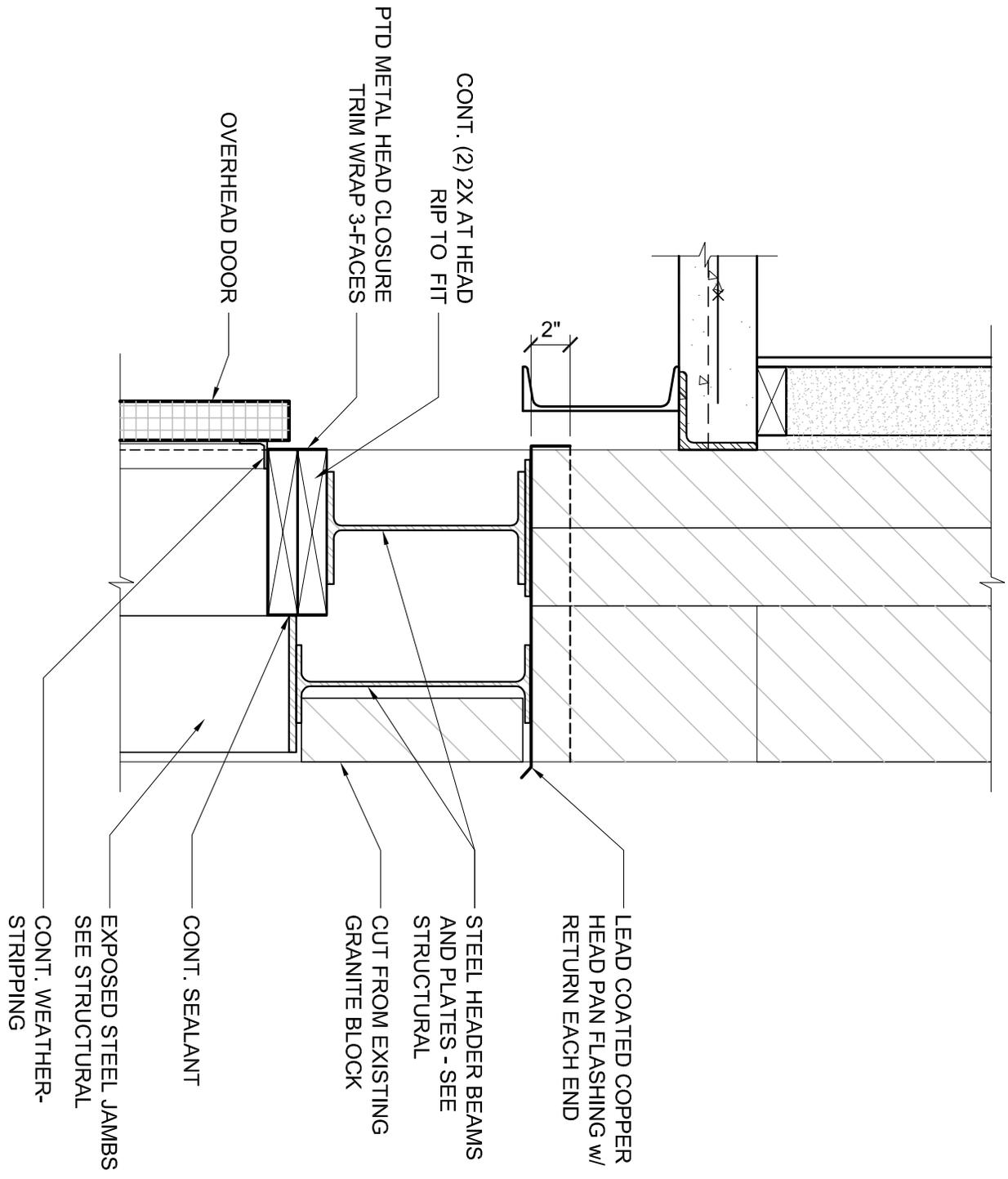


Allied Engineering
Structural Mechanical Electrical Commissioning



160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

SKA-04
ADDENDUM #1



OVERHEAD DOOR HEAD DETAIL AT DOOR 001
(BASEMENT)

AMHI - POTTING SHED CONVERSION
FOR BUREAU OF GENERAL SERVICES

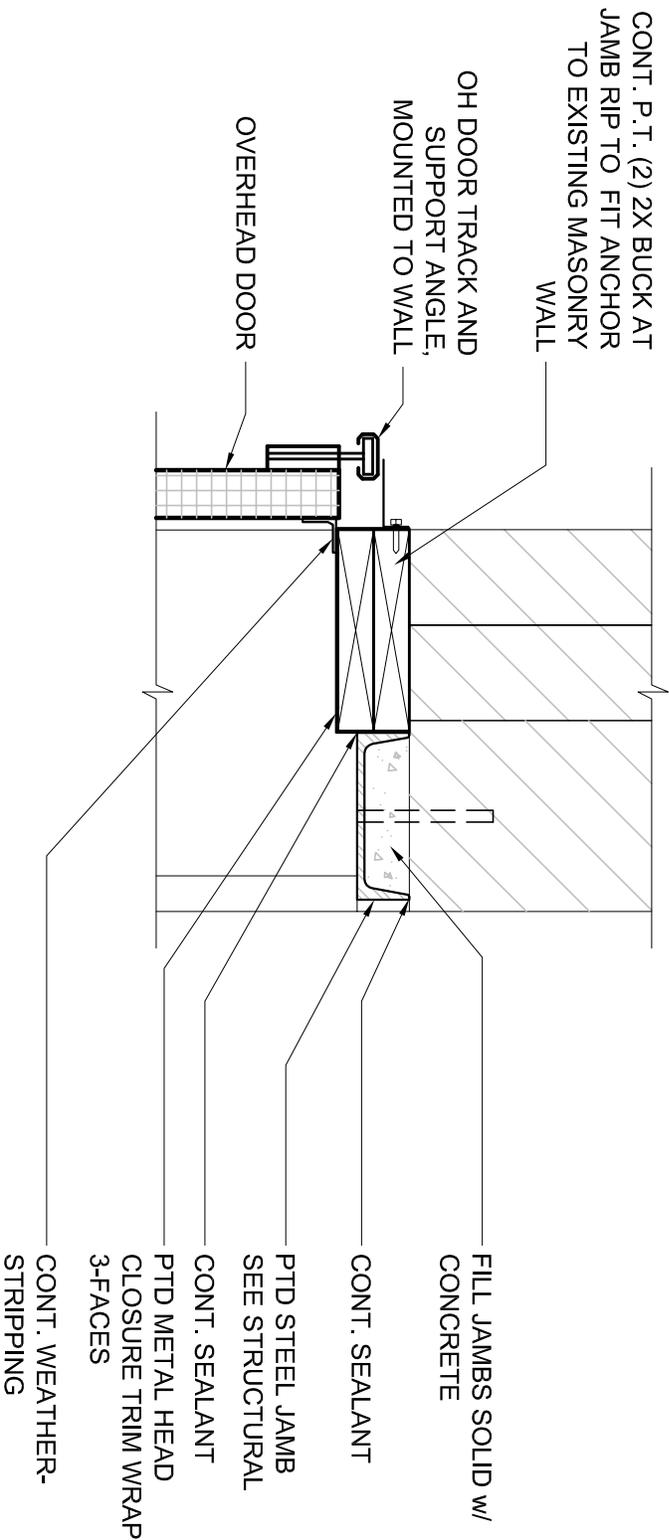
SCALE: 1-1/2" = 1'-0" PROJ NO: 15056

DATE: 01/05/2016 CAD FILE: 15056A.dwg

SKA-05
ADDENDUM #1

Allied Engineering
Structural Mechanical Electrical Commissioning

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com



OVERHEAD DOOR JAMB DETAIL AT DOOR 001 (BASEMENT)

AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES

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

DATE: 01/05/2016

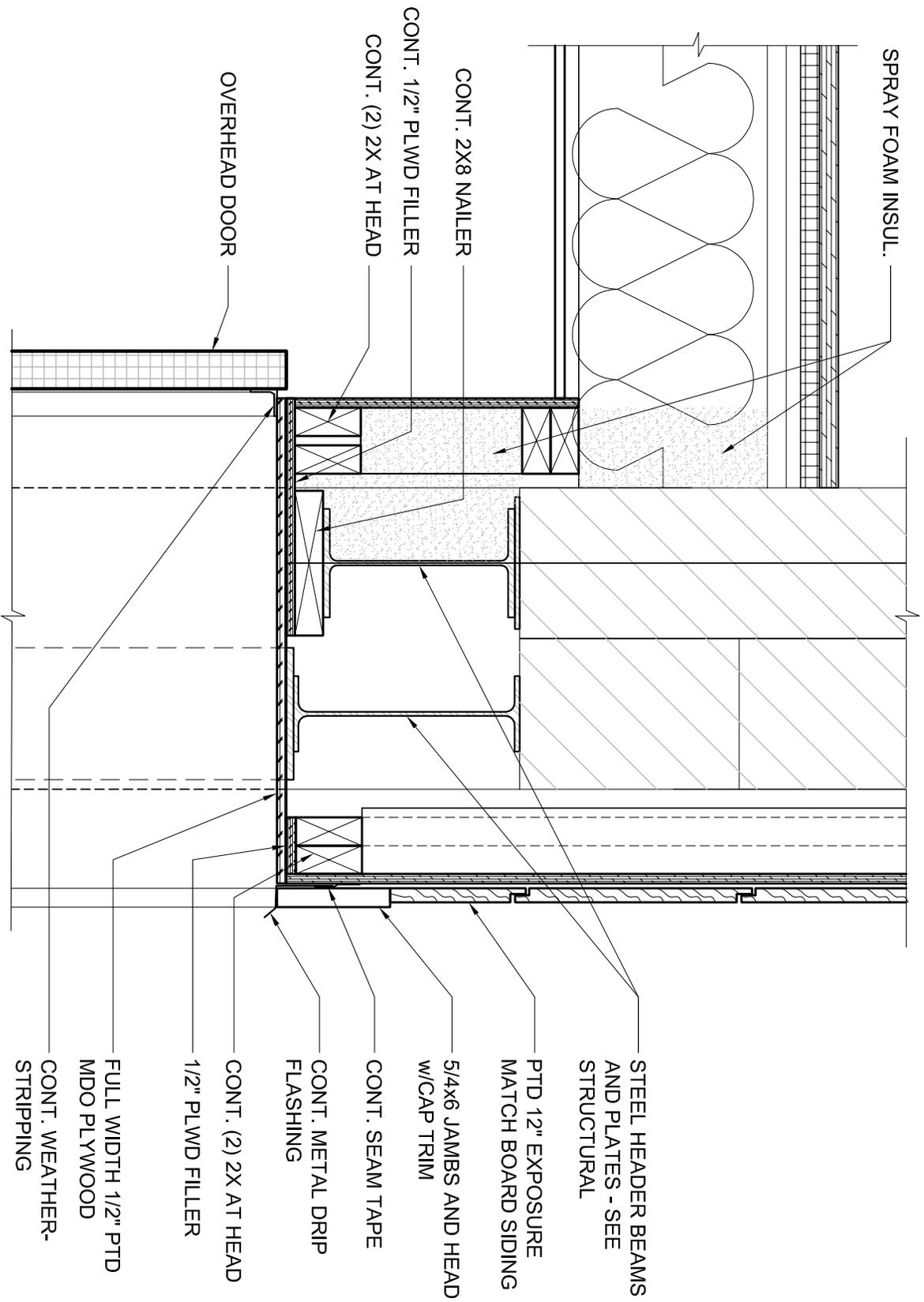
PROJ NO: 15056

CAD FILE: 15056A.dwg

SKA-06
ADDENDUM #1

Allied Engineering
Structural Mechanical Electrical Commissioning

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

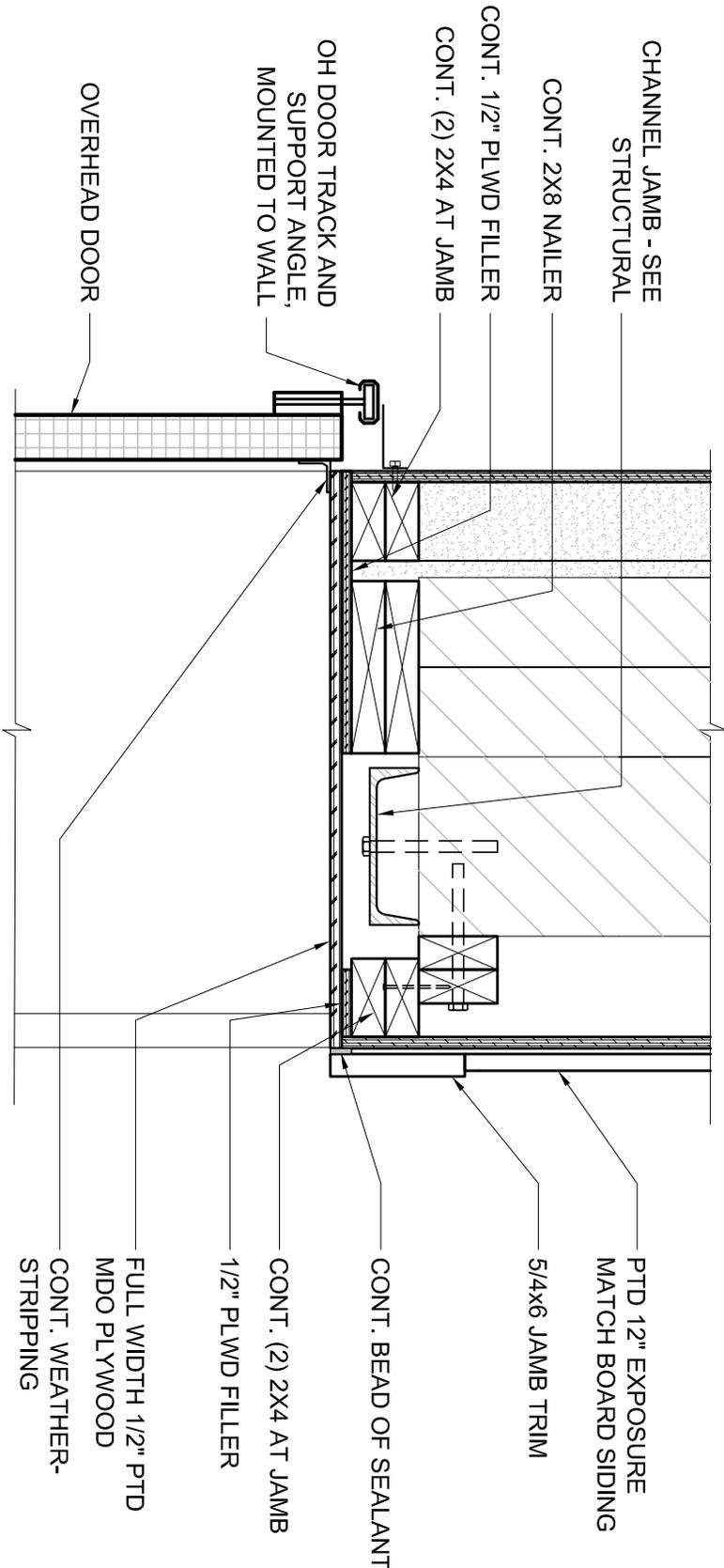


OVERHEAD DOOR HEAD DETAIL AT DOOR 102 (FIRST FLOOR)	
AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES	
SCALE: 1-1/2" = 1'-0"	PROJ NO: 15056
DATE: 01/05/2016	CAD FILE: 15056A.dwg

SKA-07
ADDENDUM #1

Allied Engineering
Structural Mechanical Electrical Commissioning

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com



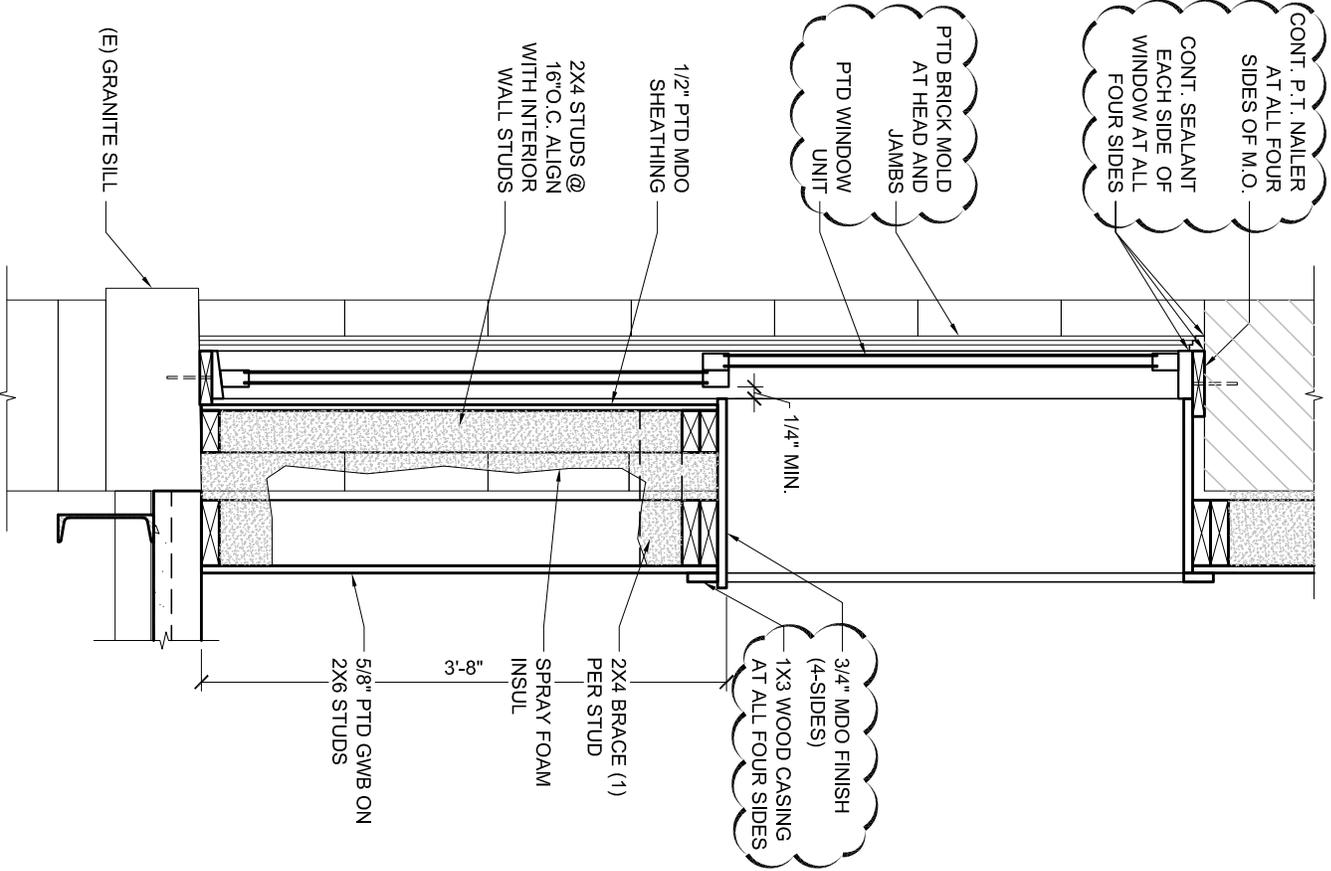
OVERHEAD DOOR JAMB DETAIL AT DOOR 102 (FIRST FLOOR)	
AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES	
SCALE: 1-1/2" = 1'-0"	PROJ NO: 15056
DATE: 01/05/2016	CAD FILE: 15056A.dwg

SKA-08
 ADDENDUM #1

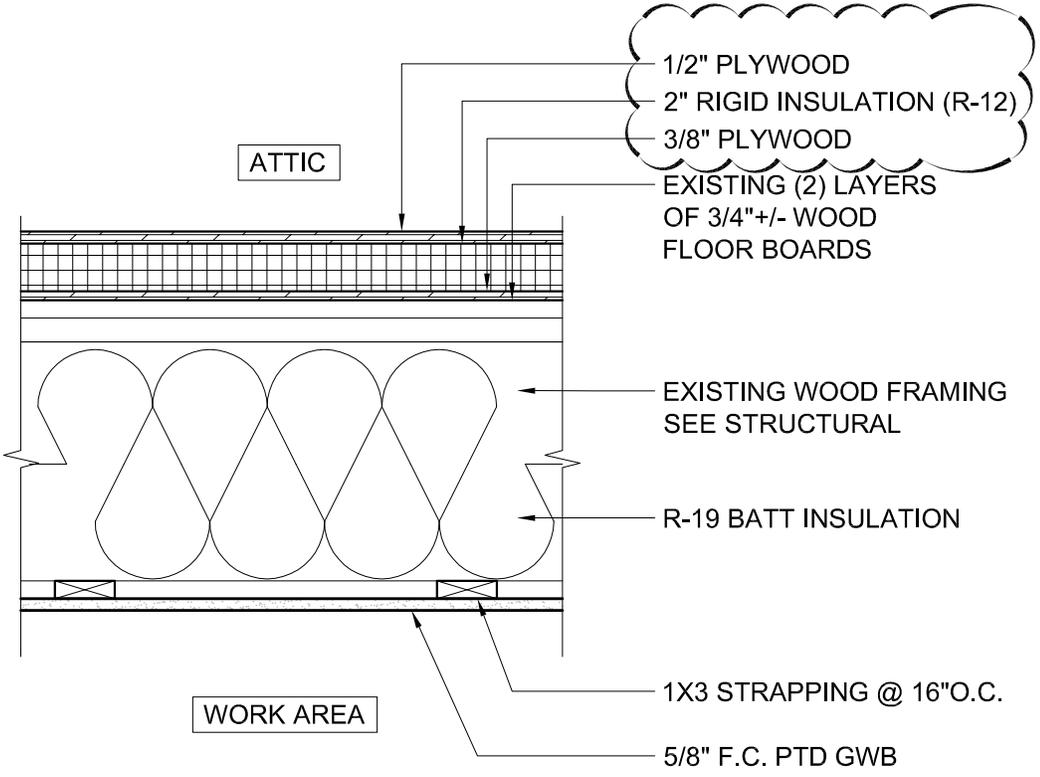

Allied Engineering
 Structural Mechanical Electrical Commissioning


160 Veranda Street
 Portland, Maine 04103
 T: 207.221.2260
 F: 207.221.2266
 Web: www.allied-eng.com

DETAIL A4/A-4



ATTIC



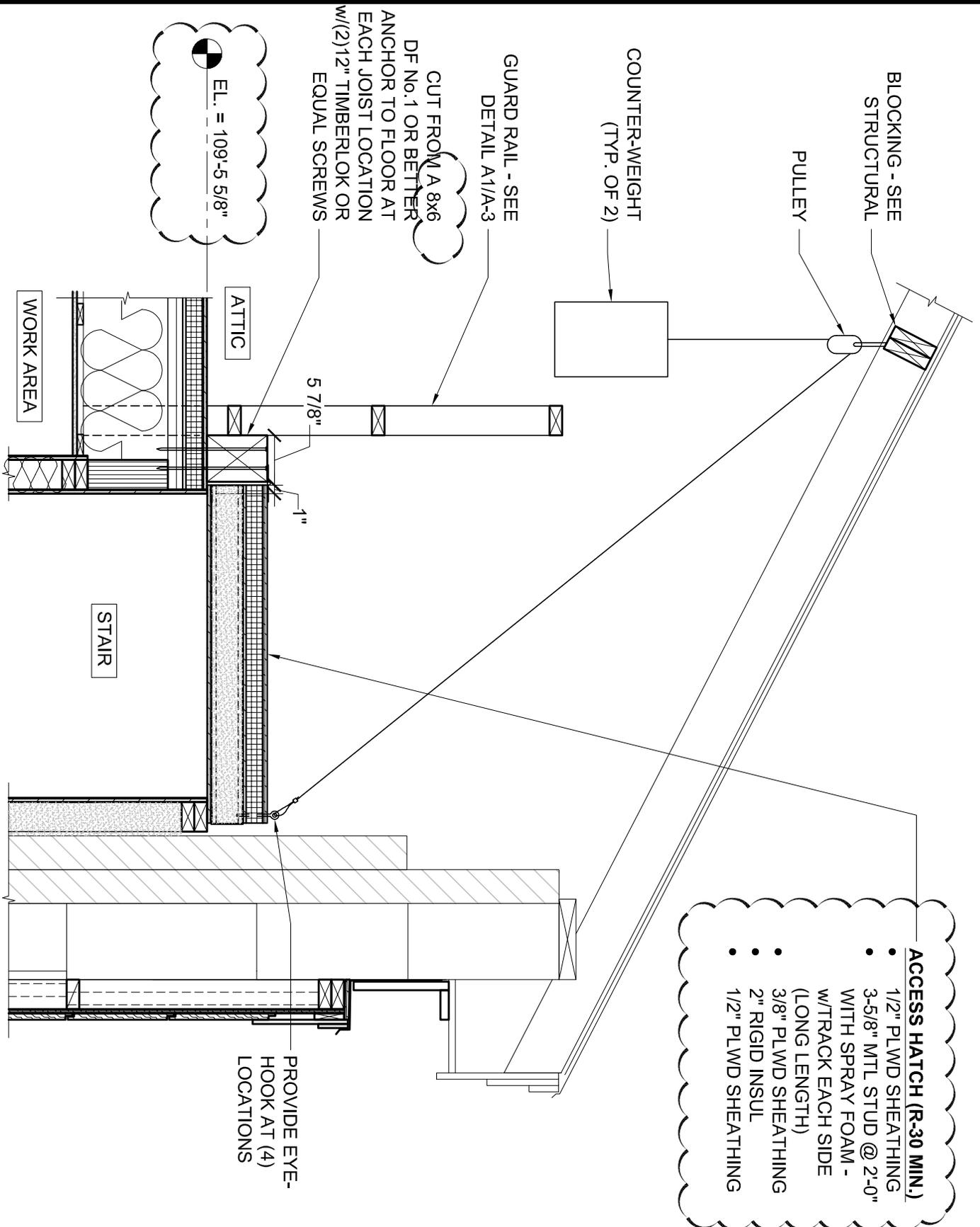
DETAIL C3/A-5

SKA-09
ADDENDUM #1

REVISIONS TO DETAIL A4/A-4 AND C3/A-5	
AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES	
SCALE: NTS	PROJ NO: 15056
DATE: 01/05/2016	CAD FILE: 15056A.dwg

Allied Engineering
Structural Mechanical Electrical Commissioning

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com



- ACCESS HATCH (R-30 MIN.)**
- 1/2" PLWD SHEATHING
 - 3-5/8" MTL STUD @ 2'-0" WITH SPRAY FOAM - W/TRACK EACH SIDE (LONG LENGTH)
 - 3/8" PLWD SHEATHING
 - 2" RIGID INSUL
 - 1/2" PLWD SHEATHING

REVISION TO DETAIL A1/A-4	
AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES	
SCALE: NTS	PROJ NO: 15056
DATE: 01/05/2016	CAD FILE: 15056A.dwg

Allied Engineering
Structural Mechanical Electrical Commissioning

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

SKA-10
ADDENDUM #1

- 1 REMOVE ALL EXISTING SANITARY PIPING, WATER DISTRIBUTION PIPING, PLUMBING FIXTURES, PIPE HANGERS AND APPURTENANCES COMPLETE TO WITHIN 6"± OF BASEMENT WALLS/FLOOR.
- 2 REMOVE ALL EXISTING STEAM AND CONDENSATE RETURN PIPING, HANGERS, CONDENSATE PUMP/RECEIVER, APPURTENANCES SUCH AS VALVES, STRAINERS, TEMPERATURE CONTROLS, ETC. COMPLETE TO WITHIN 6"± OF BASEMENT WALLS.
- 3 REMOVE EXISTING SANITARY WASTE VENT.
- 4 REMOVE EXISTING STEAM AND CONDENSATE PIPING, BASEBOARD FINITUBE COMPLETE WITH HANGERS.
- 5 REMOVE EXISTING SANITARY VENT TO WITHIN 3'-0"± OF ROOF.

RE-PRINTED DEMOLITION KEYED NOTES
~ A9 - SHEET PD-1

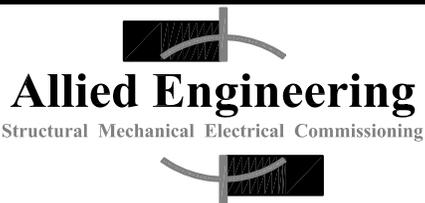
AMHI - POTTING SHED CONVERSION
FOR BUREAU OF GENERAL SERVICES

SCALE: NONE

PROJ NO: 15056

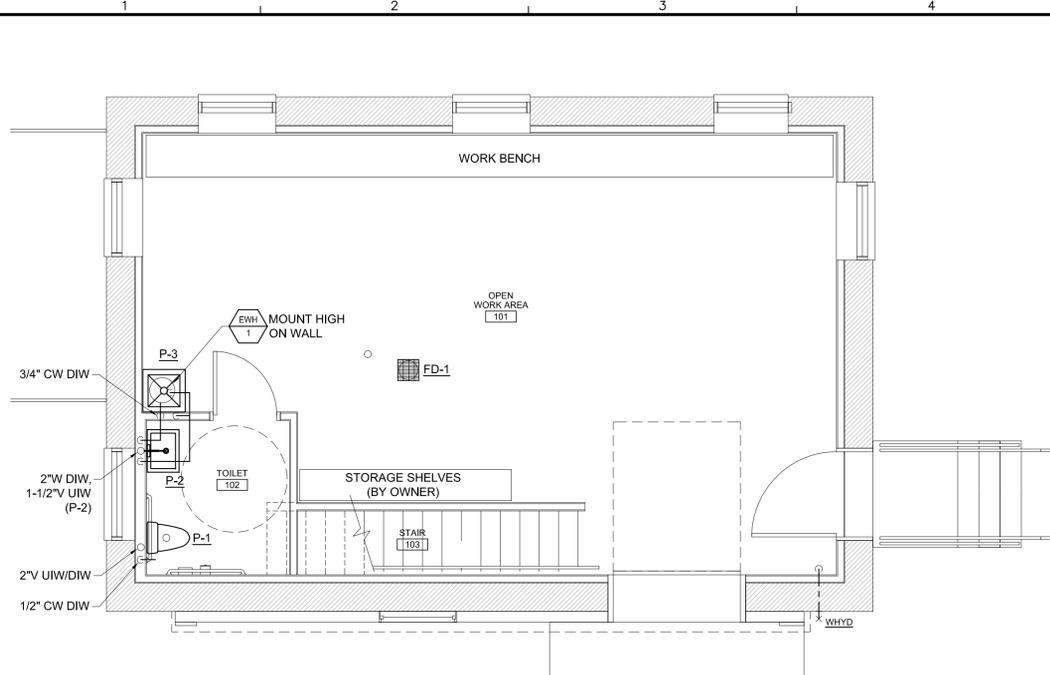
DATE: 01/05/2016

CAD FILE: 15056P.dwg

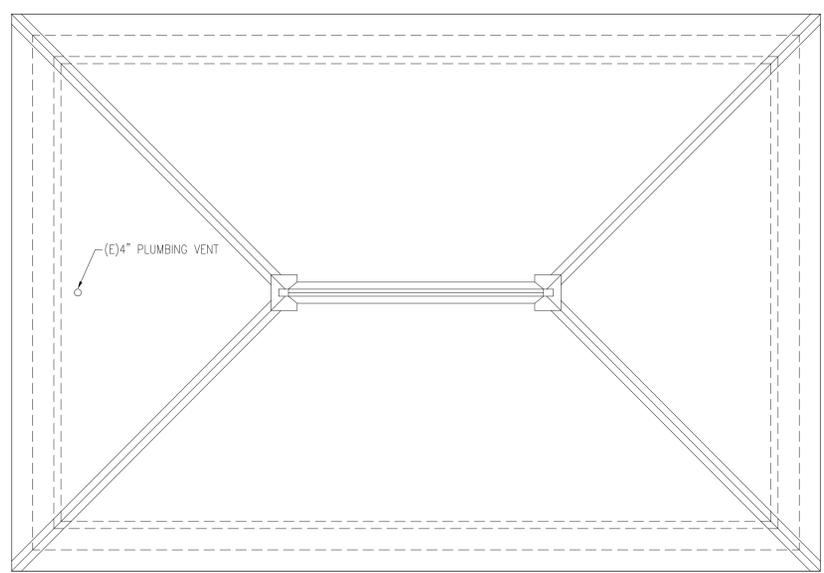


160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

SKP-01
ADDENDUM #1

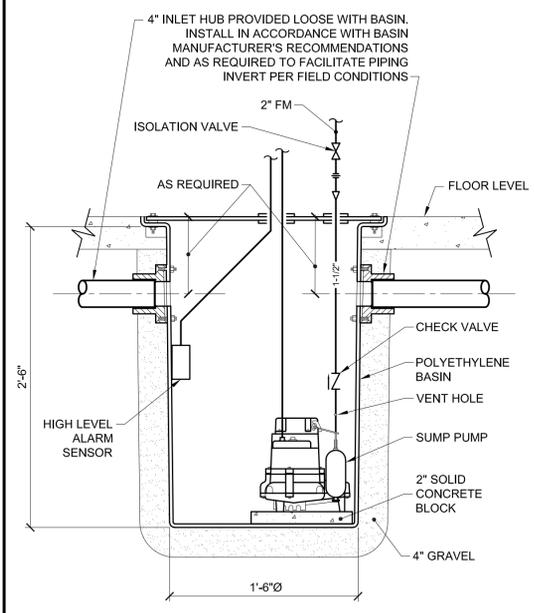


PLUMBING FIXTURE SCHEDULE						
TAG	DESCRIPTION	BRANCH SIZES				NOTES
		CW	HW	VENT	WASTE	
P-1	WATER CLOSET - TANK TYPE - PRESSURE ASSISTED	1/2"	----	2"	3"	
P-2	LAVATORY, WALL MOUNT	1/2"	1/2"	1 1/2"	2"	
P-3	MOP SINK	1/2"	1/2"	2"	3"	
EWH	ELECTRIC WATER HEATER	3/4"	3/4"	----	----	WALL HANGER KIT
WHYD	WALL HYDRANT	1/2"	----	----	----	
FD-1	OIL/SEDIMENT SEPARATOR	----	----	2"	3"	



DOMESTIC PLUMBING PUMPS														
TAG	SERVES	MAKE & MODEL	TYPE	GPM	HEAD	ELECTRICAL				BASIN				NOTES
						MOTOR HP	VOLTS/PH (60 Hz.)	DIA.	HEIGHT	GAL.	INLET TYPE	INLET SIZE	DISCH SIZE	
SP-1	SUMP PUMP	ZOELLER N152	SUBMERSIBLE	53	15	0.4	115/1	18"	30"	30	PIPED	4"	2"	1 & 2

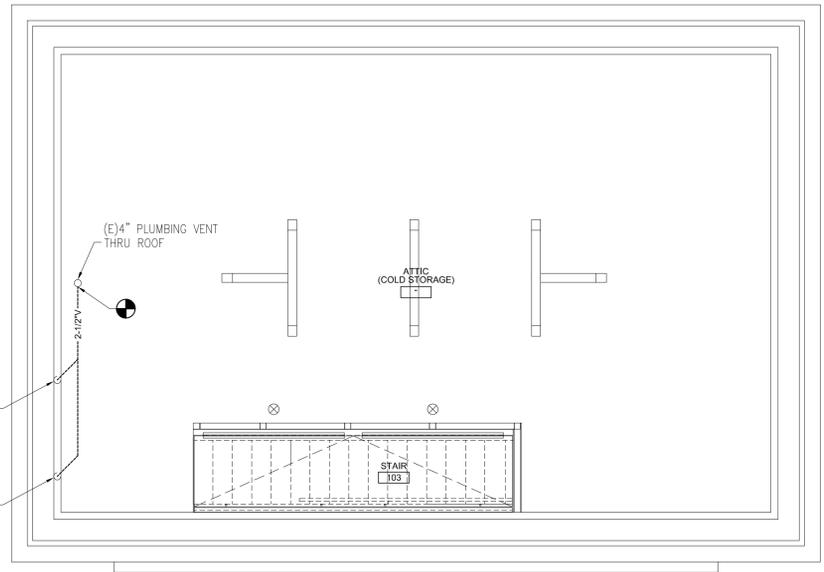
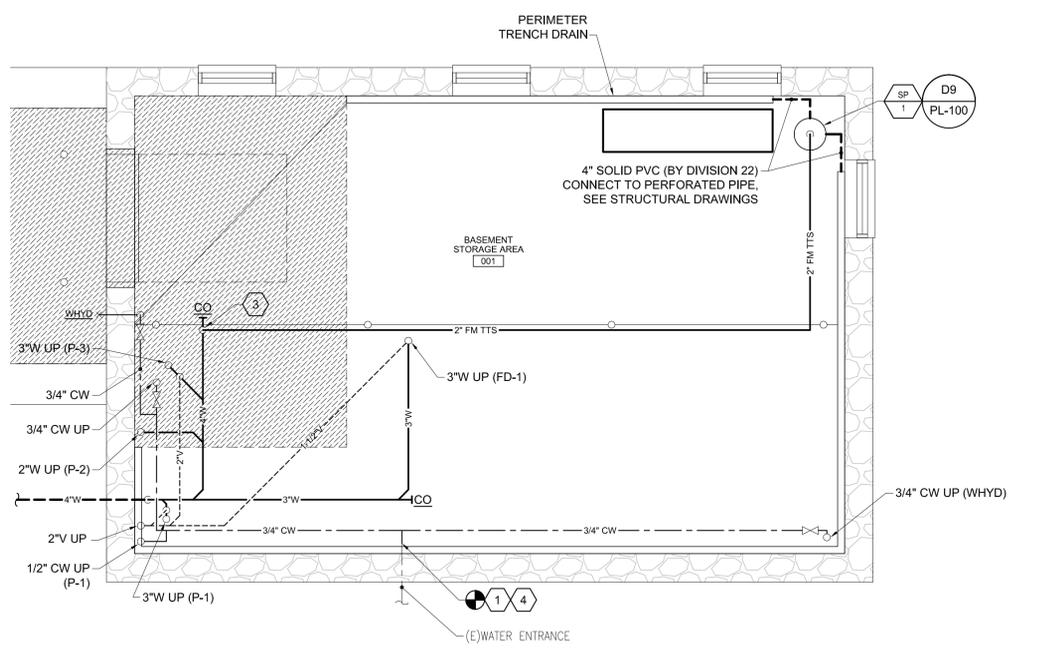
NOTES:
 1. PLUG CONNECTION, COORDINATE WITH DIV 26.
 2. COORDINATE HIGH LEVEL AUDIBLE ALARM AND FLASHING LIGHT ALARM LOCATIONS WITH OWNER.



D1 PLUMBING PLAN ~ FIRST FLOOR

D5 PLUMBING PLAN ~ ROOF

D9 DETAIL ~ SUMP PUMP SP-1 PIPING



- 1 PROVIDE DOUBLE CHECK BACKFLOW PREVENTER WITH PIPELINE STRAINER.
- 2 COORDINATE SANITARY INVERT WITH EXISTING CONDITIONS AND NEW SLAB EXCAVATION.
- 3 CONNECT WITH SANITARY WYE PER MAINE STATE PLUMBING CODE.
- 4 PROPOSED LOCATION OF WATER TREATMENT SYSTEM (BY OWNER UNDER SEPARATE CONTRACT)

RE-ISSUED FOR ADDENDUM #1
DATE: 01/05/2016

A1 PLUMBING PLAN ~ BASEMENT

A5 PLUMBING PLAN ~ SECOND FLOOR

A9 PLUMBING KEYED NOTES

160 Veranda Street
 Portland, Maine 04103
 T: 207.221.2260
 F: 207.221.2266
 Web: www.allied-eng.com

Allied Engineering
 Structural Mechanical Electrical Commissioning

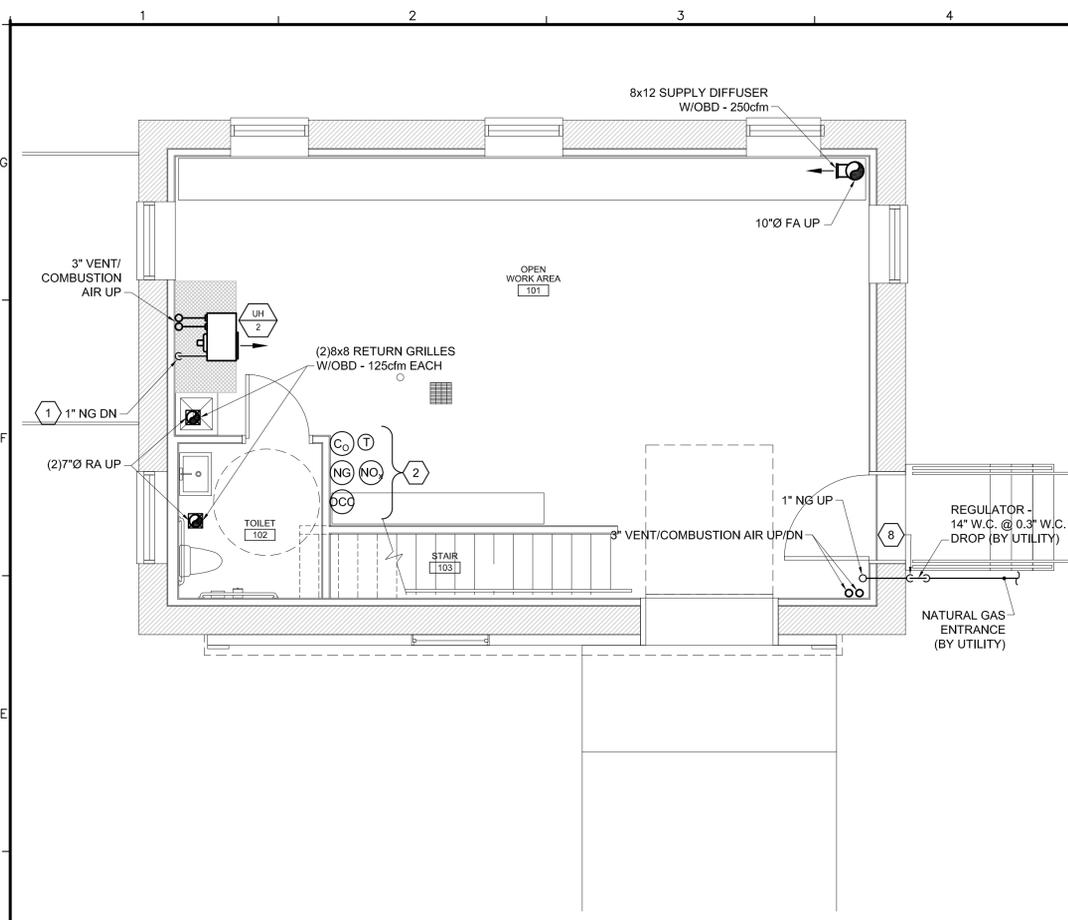
GRANT HAYS ASSOCIATES
 ARCHITECTURE & INTERIOR DESIGN
 P.O. BOX 6179 FALMOUTH MAINE 04105
 207.871.5900 www.granthays.com

Date:	REW
Drawn By:	HAG
Checked By:	WPF
Project Mgr:	WPF
Project No.:	15056
Coord. No.:	15056M.dwg
Graphic Scale:	0 1"

PLUMBING PLANS
 AMHI - POTTING SHED CONVERSION
 FOR BUREAU OF GENERAL SERVICES
 77 STATE STREET
 AUGUSTA, MAINE 04333
 © copyright 2015 ALLIED ENGINEERING, INC.

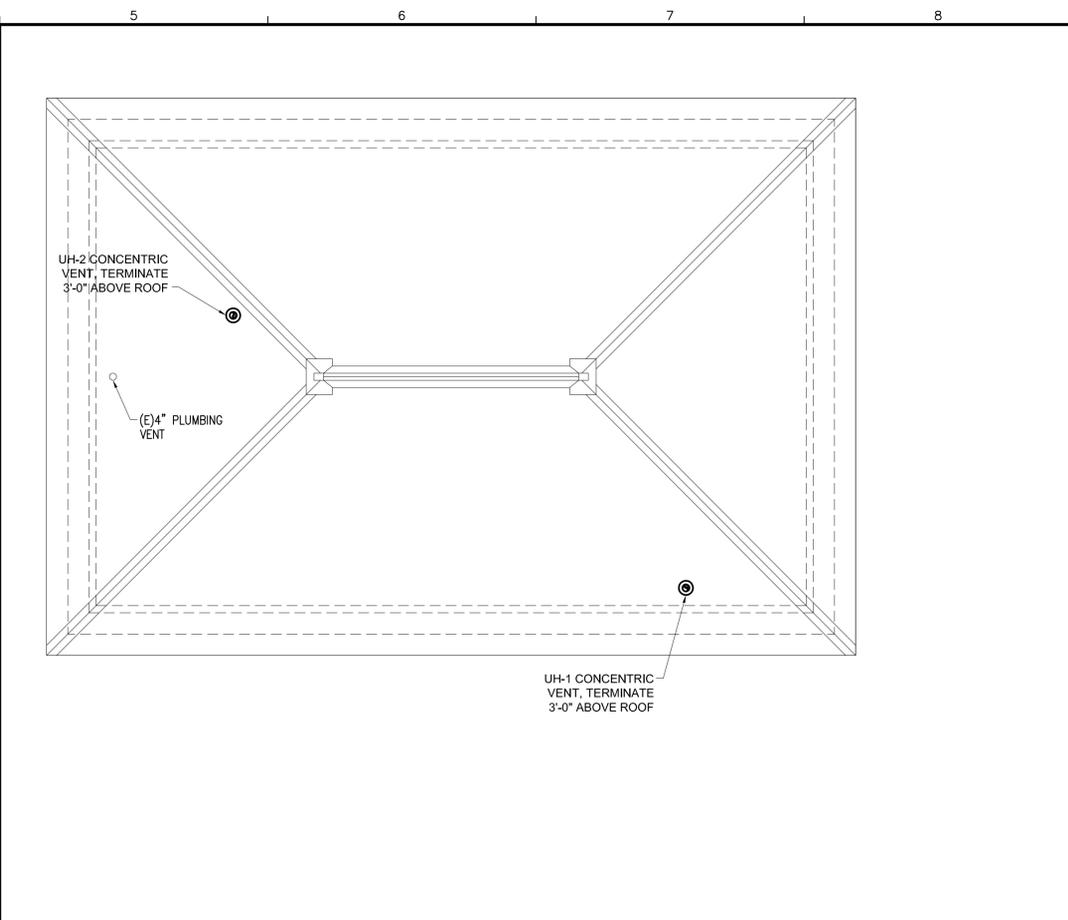
PL-1

ISSUED FOR BID ~ 23 DECEMBER 2015 ~ NOT FOR CONSTRUCTION



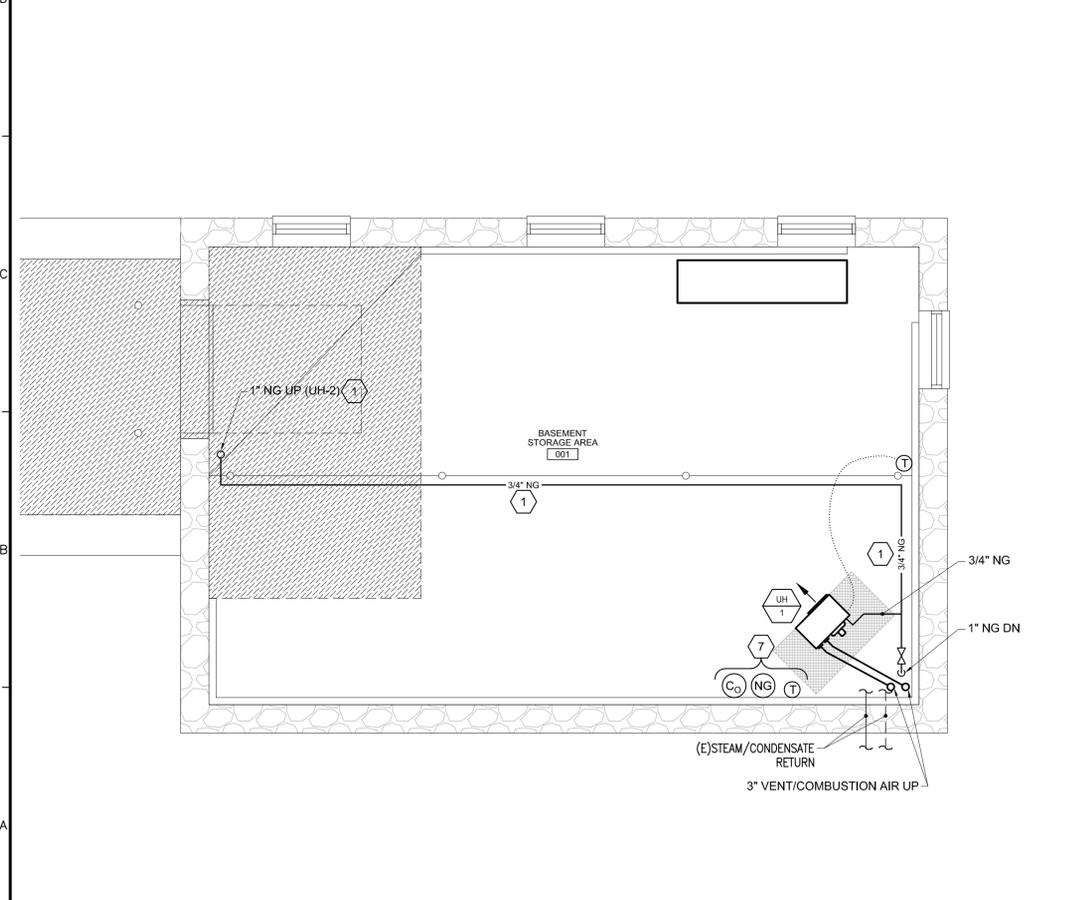
D1 MECHANICAL PLAN ~ FIRST FLOOR

1/4" = 1'-0"



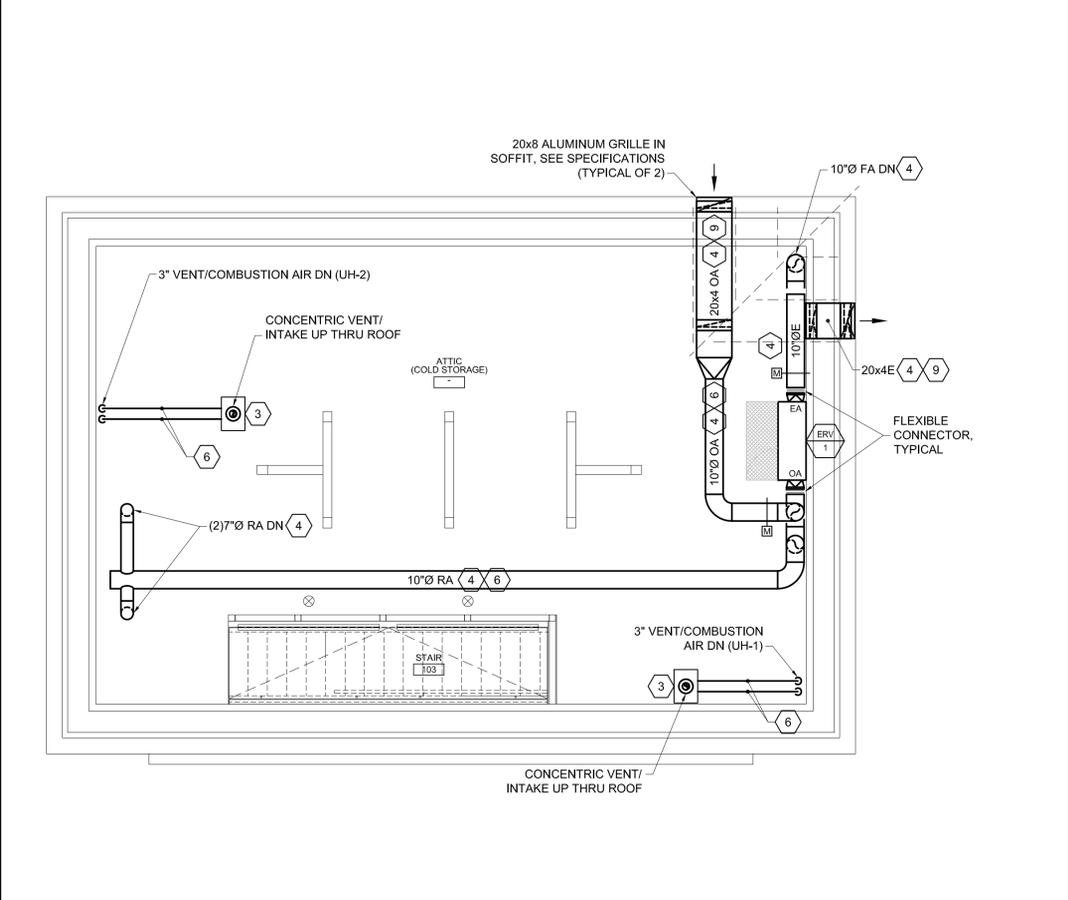
D5 MECHANICAL PLAN ~ ROOF

1/4" = 1'-0"



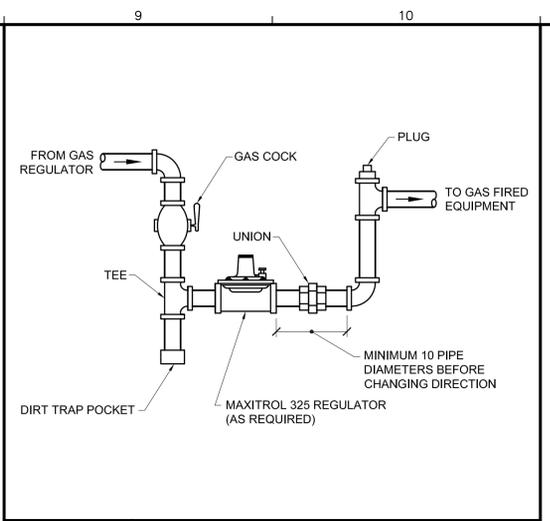
A1 MECHANICAL PLAN ~ BASEMENT

1/4" = 1'-0"



A5 MECHANICAL PLAN ~ SECOND FLOOR

1/4" = 1'-0"



F9 DETAIL ~ GAS PIPING CONNECTION

NOT TO SCALE

- 1 PAINT ALL NATURAL GAS PIPING SAFETY YELLOW.
- 2 - WALL MOUNTED SPACE SENSOR
- CO - SEE SEQUENCE OF OPERATION
- NOX - SEE SEQUENCE OF OPERATION
- NG - SEE SEQUENCE OF OPERATION
- 3 CONCENTRIC VENT ADAPTER BOX
- 4 INSULATE DUCT WITH 2" FIBERGLASS W/VAPOR BARRIER.
- 5 3" COMBUSTION AIR AND VENT PIPING TO CONCENTRIC VENT ADAPTER BOX. INSULATE VENT PIPE WITH NON-COMBUSTIBLE INSULATION WITH A MINIMUM RATING OF 500°F.
- 6 PITCH DUCT UP AND RUN TIGHT TO ROOF STRUCTURE TO MAXIMIZE HEADROOM.
- 7 - WALL MOUNTED SPACE SENSOR
- CO - SEE SEQUENCE OF OPERATION
- NG - SEE SEQUENCE OF OPERATION
- 8 LIMIT OF CONTRACT FOR NATURAL GAS PIPING.
- 9 RUN 20x4 DUCT BETWEEN (E) 24" O.C. ROOF TRUSSES AND FOLLOW ROOF SLOPE DOWN TO ALUMINUM GRILLE IN SOFFIT.

RE-ISSUED FOR ADDENDUM #1
DATE: 01/05/2016

A9 MECHANICAL KEYED NOTES

NONE

N:\Projects\2015\15058 - AMHI Potting Shed\00 Drawing Files\15058M.dwg Jun 05, 2015 - 11:30am

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

Allied Engineering
Structural Mechanical Electrical Commissioning

GRANT HAYES ASSOCIATES
ARCHITECTURE & INTERIOR DESIGN
P.O. BOX 6179 FALMOUTH MAINE 04105
207.871.5900 www.granthayes.com

Date:	REV
Drawn By:	HAG
Checked By:	WPF
Project Mgr:	WPF
Project No.:	15056
Coord.:	15058M.dwg
Graphic Scale:	0 1"

MECHANICAL PLANS

AMHI - POTTING SHED CONVERSION
FOR BUREAU OF GENERAL SERVICES
77 STATE STREET
AUGUSTA, MAINE 04333
© copyright 2015 ALLEN DIMOND INC.

MH-1

ISSUED FOR BID ~ 23 DECEMBER 2015 ~ NOT FOR CONSTRUCTION

<p>1</p> <p>A AMPERE AC ALTERNATING CURRENT AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT AIC AMPERES INTERRUPTING CAPACITY ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BAS BUILDING AUTOMATION SYSTEM BKBD BACKBOARD C CONDUIT CAT CATALOG, CATEGORY CATV CABLE TV CB CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION CM CIRCULAR MILS COMM COMMUNICATIONS CU MECH CONDENSING UNIT CU COPPER CUH CABINET UNIT HEATER DC DIRECT CURRENT DDC DIGITAL DIRECT CONTROL DN DOWN DW DISHWASHER DWG DRAWING EF EXHAUST FAN ELEV ELEVATOR EMT ELECTRICAL METALLIC TUBING EP EXPLOSION PROOF ERU ENERGY RECOVERY UNIT EWC ELECTRIC WATER COOLER FACP FIRE ALARM CONTROL PANEL FB FLOOR BOX FLA FULL LOAD AMPS FWE FURNISHED WITH EQUIPMENT G, GND GROUND GFCI GROUND FAULT CIRCUIT INTERRUPTER GFP GROUND FAULT PROTECTION HID HIGH INTENSITY DISCHARGE HOA HAND-OFF-AUTO SELECTOR SWITCH HP HORSEPOWER HVAC HEATING, VENTILATION AND COOLING UNIT IDS INTRUSION DETECTION SYSTEM IG ISOLATED GROUND IMC INTERMEDIATE METAL CONDUIT IR INFRARED K KILO KMIL KILO CIRCULAR MILS KW KILOWATT KVA KILO VOLT-AMPS LAN LOCAL AREA NETWORK LC LIGHTING CONTACTOR LF LINEAR FEET LC LOADCENTER LCP LIGHTING CONTROL PANEL LED LIGHT EMITTING DIODE LTG LIGHTING LTS LIGHTS MAX MAXIMUM MCB MAIN CIRCUIT BREAKER MECH MECHANICAL MH MOUNTING HEIGHT</p>		<p>2</p> <p>MC MICROPHONE MICRO MICROWAVE MLO MAIN LUG ONLY MOUNT MT MOUNT MTS MANUAL TRANSFER SWITCH MCP MOTOR CONTROL PANEL MH METAL HALIDE MDP MAIN DISTRIBUTION PANEL MIN MINIMUM N NEUTRAL NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT NF NON-FUSED NO NORMALLY OPEN NO., # NUMBER NTS NOT TO SCALE OTS ON CENTER OCC OCCUPANCY OH OVERHEAD P POLE PA PUBLIC ADDRESS PH. PHASE PIR PASSIVE INFRARED PNL PANELBOARD PIO PART OF PV PHOTOVOLTAIC PVC POLY-VINYL CHLORIDE REC RECEPTACLE REF REFRIGERATOR REF RECEPT RF RETURN FAN RGS RIGID GALVANIZED STEEL RM ROOM RMC RIGID METAL CONDUIT RTU ROOFTOP UNIT REF REFRIGERATOR SF SUPPLY FAN SPDT SINGLE POLE, DOUBLE THROW SWITCH SQ SQUARE TEL TELEPHONE TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR TYP TYPICAL UF UNDER FLOOR UG UNDERGROUND UH UNIT HEATER UL UNDERWRITER'S LABORATORY UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY V VOLTS VFD VARIABLE FREQUENCY DRIVE W WATT WP WEATHERPROOF WG WIREGUARD XFMR TRANSFORMER (E) EXISTING ITEM TO REMAIN (R) REMOVE ITEM AND DISPOSE OF PROPERLY (ER) RELOCATED ITEM AT NEW LOCATION (RL) REMOVE AND RELOCATE</p>		<p>3</p> <p>Φ DUPLX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R Φ DOUBLE DUPLX RECEPTACLE Φ DUPLX RECEPTACLE, HATCH INDICATES CONNECTION TO XXX Φ GFCI DUPLX RECEPTACLE, MOUNT 44" AFF UNO Φ GFCI DOUBLE DUPLX RECEPTACLE, MOUNT 44" AFF UNO WF Φ GFCI RECEPTACLE WITH WEATHERPROOF COVER Φ GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF MULTI-OUTLET STRIP, PROVIDE OUTLETS 24" OC UNO, MOUNT 48" AFF UNO</p> <p>NOTES: 1. MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO 2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFG UNO</p>		<p>4</p> <p>Φ DUPLX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R Φ 20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK) Φ 30A DRYER RECEPTACLE ~ 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER Φ 30A, 250V, 2P, 3W, NEMA 6-30R Φ 50A RANGE RECEPTACLE ~ 125/250V, 3P, 4W, GROUNDING, NEMA 14-50R, (3)#6+(1)#10 TO 50A, 2P CIRCUIT BREAKER</p> <p>NOTE: PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES</p>		<p>5</p> <p>W TELEPHONE WALL OUTLET, 44" AFF UNO ▼ TELEPHONE OUTLET, 18" AFF UNO ▼ TEL/DATA OUTLET, 18" AFF UNO ▼ DATA OUTLET, 18" AFF UNO WA WIRELESS ACCESS POINT CEILING MOUNTED WA WIRELESS ACCESS POINT WALL MOUNTED</p> <p>TECHNOLOGY GENERAL NOTES 1. DIVISION 26 SHALL PROVIDE BOXES AND CONDUITS WITH PULL STRINGS AS INDICATED. CABLING AND TERMINATIONS SHALL BE BY OWNER. 2. FOR EACH TECHNOLOGY OUTLET, PROVIDE A 2-GANG BOX WITH 1-GANG ADAPTER. PROVIDE A 1" CONDUIT FROM EACH OUTLET BOX TO TELEPHONE BACKBOARD.</p>		<p>6</p> <p>CR CARD READER ~ PROVIDE 4" SQ. JUNCTION BOX AT 48" AFF DA DOOR ALARM CONTACT ~ PROVIDE CONDUIT STUBBED OUT OF WALL AT CEILING RE REQUEST TO EXIT ~ PROVIDE 4" SQ. JUNCTION BOX AT 48" AFF MT MOTION DETECTOR ~ PROVIDE CONDUIT STUBBED OUT OF CEILING CM CAMERA ~ PROVIDE CONDUIT STUBBED OUT OF WALL AT CEILING SP SECURITY PANEL DR DOOR RELEASE ~ PROVIDE CONDUIT STUBBED OUT OF WALL AT CEILING MA MEDICAL/PANIC ALARM ~ PROVIDE 4" SQ. JUNCTION BOX AT 48" AFF RX REQUEST TO EXIT MOTION SENSOR ~ PROVIDE 4" SQ. JUNCTION BOX AT CEILING EH ELECTRIFIED HINGE ~ PROVIDE ½" C TO ELECTRIFIED LEVER LOCKSET POWER SUPPLY EL ELECTRIFIED LEVER LOCKSET ~ PROVIDE 120V WIRING AND 12V POWER SUPPLY COMPATIBLE WITH HARDWARE. COORDINATE WITH DIV 08</p>		<p>7</p> <p>□ LIGHT FIXTURE, RECESSED TROFFER, TYPICAL ○ RECESSED DOWNLIGHT ○ RECESSED WALL WASHER DOWNLIGHT ○ WALL MOUNTED LIGHT FIXTURE ○ CEILING SURFACE MOUNTED LIGHT FIXTURE ○ PENDANT MOUNTED LIGHT FIXTURE □ LINEAR LIGHT FIXTURE, CEILING SURFACE MOUNTED □ LINEAR LIGHT FIXTURE, PENDANT MOUNTED □ LINEAR LIGHT FIXTURE, WALL MOUNTED RB REMOTE BALLAST, ALLOW 9" IN ALL DIRECTIONS BETWEEN BALLASTS TYPICAL FOR ALL FIXTURE TYPES: INDICATES LUMINAIRE TYPE ON SCHEDULE F1 - LOWER CASE LETTER INDICATES SWITCHING # - INDICATES CIRCUIT NUMBER</p>		<p>8</p> <p>BP# EMER BATTERY UNIT WITH NO HEADS, MT 7-6" AFF BP# INDICATES BATTERY UNIT DESIGNATION CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O. BP# EMER BATTERY UNIT WITH INTEGRAL HEADS, WALL MOUNTED 7-6" AFF U.N.O. BP# INDICATES BATTERY UNIT DESIGNATION CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O. BP# SINGLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7-6" AFF BP# INDICATES BATTERY UNIT CONNECTED TO BP# DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7-6" AFF BP# INDICATES BATTERY UNIT CONNECTED TO EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O. EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7-6" AFF OR OVER DOOR CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.</p>		<p>9</p> <p>■ PANELBOARD ~ SURFACE MOUNTED ■ PANELBOARD ~ FLUSH MOUNTED □ FUSED DISCONNECT SWITCH □ NON-FUSED DISCONNECT SWITCH 00 MOTOR STARTER ~ NUMBER INDICATES NEMA SIZE 00 COMBINATION MOTOR STARTER/FUSED DISCONNECT ○ MOTOR OR FAN M POWER METER ○ JUNCTION BOX ~ CEILING MOUNTED ○ JUNCTION BOX ~ WALL MOUNTED J JUNCTION BOX ~ FLOOR MOUNTED J JUNCTION BOX ~ PEDESTAL MOUNTED TF TRANSFORMER ~ NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE VFD VARIABLE FREQUENCY DRIVE TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR E EMERGENCY SHUTOFF SWITCH ~ WALL MOUNTED 48" TO CENTERLINE ~ PROVIDE TAMPER-PROOF COVER ○ CONDUIT TURNING UP ○ CONDUIT TURNING DOWN --- WIRING UNDERGROUND OR UNDERSLAB HOMERUN ~ (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO) SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT FLEXIBLE CONNECTION G GROUNDING SYSTEM P POWER POLE P PUSHBUTTON C DOORBELL CHIME S SYSTEMS FURNITURE WHIP P MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~ FURNISHED BY DIVISION 08, WIRED BY DIVISION 26 CB ENCLOSED CIRCUIT BREAKER</p>		<p>10</p> <p>F3 RECEPTACLES NO SCALE</p> <p>F5 SINGLE RECEPTACLES NO SCALE</p> <p>F7 LUMINAIRES NO SCALE</p> <p>D7 EMERGENCY LUMINAIRES NO SCALE</p> <p>D9 POWER DISTRIBUTION NO SCALE</p> <p>C3 FIRE ALARM SYSTEM NO SCALE</p> <p>C5 SECURITY SYSTEM NO SCALE</p> <p>A1 ABBREVIATIONS NO SCALE</p> <p>A3 GENERAL NOTES</p> <p>A5 DEMOLITION GENERAL NOTES</p> <p>A7 LIGHT SWITCHES NO SCALE</p> <p>A9 FLOOR AND CEILING DEVICES NO SCALE</p>		<p>10</p> <p>F4 DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX F5 DOUBLE DUPLX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX F6 JUNCTION BOX, MOUNT IN FLUSH FLOOR BOX F7 EMPTY FLUSH FLOOR BOX F8 DUPLEX RECEPTACLE, PEDESTAL MOUNTED F9 SINGLE RECEPTACLE, PEDESTAL MOUNTED P J JUNCTION BOX, PEDESTAL MOUNTED C1 DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING C2 DOUBLE DUPLX RECEPTACLE, FLUSH MOUNTED IN CEILING C3 DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING C4 DOUBLE DUPLX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING C5 DATA OUTLET, FLUSH MOUNTED IN CEILING, SEE SCHEDULE FOR TYPE C6 JUNCTION BOX, FLUSH MOUNTED IN CEILING O OVERHEAD RECEPTACLE DROP, DUPLEX O OVERHEAD RECEPTACLE DROP, DOUBLE DUPLX O OVERHEAD RECEPTACLE DROP, GFCI</p> <p>NOTE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN</p>		<p>10</p> <p>160 Veranda Street Portland, Maine 04103 T: 207.221.2260 F: 207.221.2266 Web: www.allied-eng.com</p> <p>Allied Engineering Structural Mechanical Electrical Commissioning</p> <p>GRANT HAYS ASSOCIATES ARCHITECTURE & INTERIOR DESIGN P.O. BOX 6018 FALMOUTH MAINE 04103 207.871.5900 www.granthays.com</p> <p>ELECTRICAL LEGEND NOTES AND ABBREVIATIONS</p> <p>AMHI - POTTING SHED CONVERSION FOR BUREAU OF GENERAL SERVICES AUGUSTA, MAINE 04333 77 STATE STREET</p> <p>DATE: - Drawn By: GMC Checked By: SRM Project Mgr: WPF Project No: 15056 Coord File: 15056E.dwg Graphic Scale: 0 1"</p> <p>© COPYRIGHT 2015 ALLIED ENGINEERING, INC.</p>	
---	--	--	--	---	--	--	--	--	--	---	--	---	--	--	--	--	--	---	--	--	--	---	--

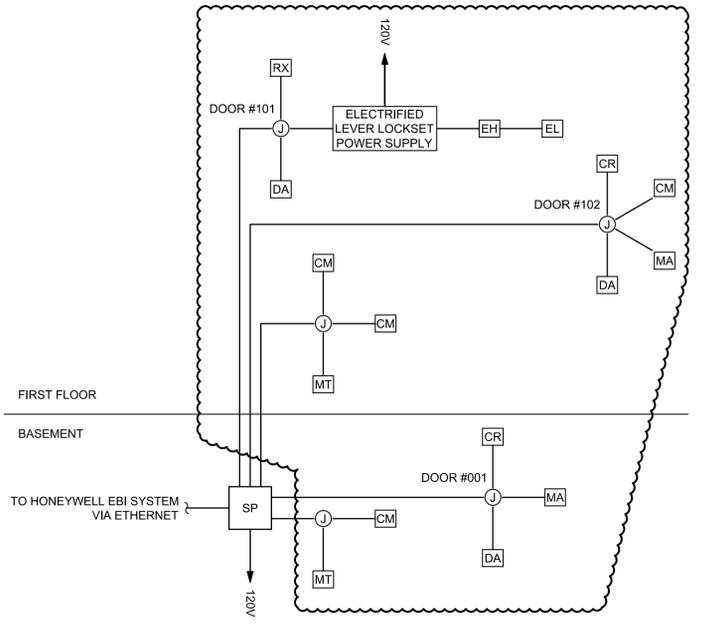
RE-ISSUED FOR ADDENDUM #1
DATE: 01/05/2016

ISSUED FOR BID ~ 23 DECEMBER 2015 ~ NOT FOR CONSTRUCTION

ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT																	
TAG	DESCRIPTION	VOLTS	PH	LOAD	MCA	MOPD	DISCONNECT SWITCH				STARTER (NEMA)			PANEL	WIRING IN CONDUIT	NOTES	
							FRAME	POLES	FUSE	NEMA ENCL	FBD	SIZE/ VFD	FBD				CBD
EW-1	ELECTRIC WATER HEATER	120	1	2 KW	-	-	20	1	NF	1	26	-	-	22	P1	(2) #12 + (1) #12 G	
UH-1	UNIT HEATER	120	1	3.7 A	-	15	20	1	NF	1	26	-	-	23	P1	(2) #12 + (1) #12 G	
UH-2	UNIT HEATER	120	1	3.7 A	-	15	20	1	NF	1	26	-	-	23	P1	(2) #12 + (1) #12 G	
SP-1	SUMP PUMP	120	1	0.4 HP	-	-	NEMA 5-20R RECEPTACLE				26	-	-	23	P1	(2) #12 + (1) #12 G	
ERU-1	ENERGY RECOVERY UNIT	208	1	5.1 A	6.4	15	FWE				23	-	-	23	P1	(2) #12 + (1) #12 G	

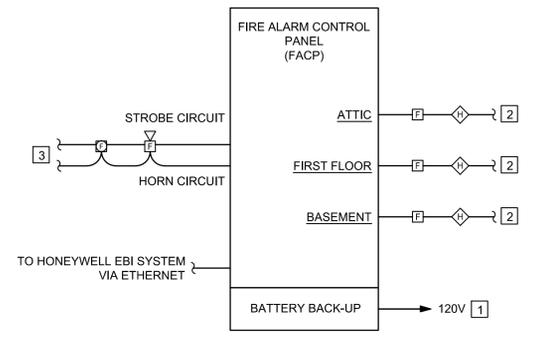
ABBREVIATIONS:
 FWE FURNISHED WITH EQUIPMENT
 NF NOT FUSED
 SWBD SWITCHBOARD
 FBD FURNISHED BY DIVISION
 CBD CONTROL WIRING BY DIVISION

F4 ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT



SECURITY SYSTEM NOTES
 1. PROVIDE CONDUIT AND JUNCTION BOXES AT DEVICE LOCATIONS SHOWN ON FLOOR PLANS FOR FUTURE SYSTEM WIRING AND INSTALLATION BY OTHERS. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.

D4 SECURITY SYSTEM CONDUIT DIAGRAM

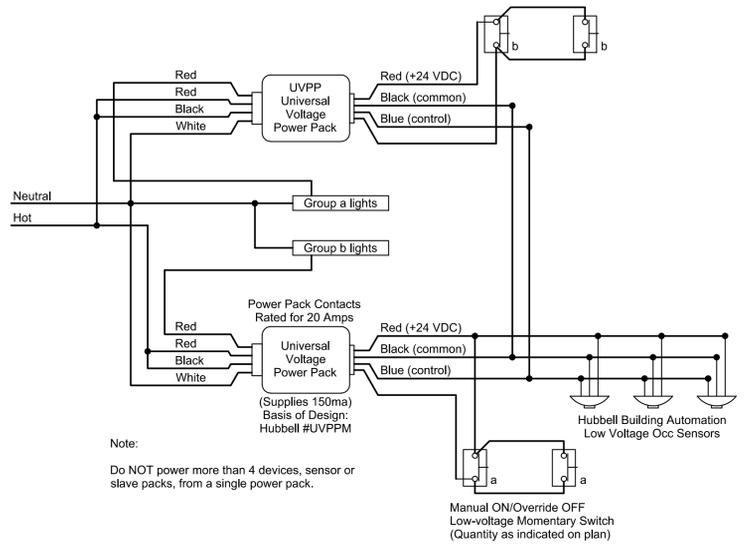


FA GENERAL NOTES
 1. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 2. SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT AND IN ACCORDANCE WITH EQUIPMENT SUPPLIER'S APPROVED SHOP DRAWINGS AND WIRING DIAGRAMS.
 3. RISER DIAGRAM DOES NOT SHOW ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL SYSTEM DEVICES.
 4. ALL WIRING SHALL BE CONCEALED.

FIRE ALARM RISER KEY NOTES
 1. PROVIDE CIRCUIT BREAKER HANDLE LOCK ON POWER CIRCUIT. HANDLE LOCK SHALL ALLOW THE CIRCUIT BREAKER TO TRIP, BUT PREVENT SWITCHING OF THE CIRCUIT BREAKER TO THE "OFF" POSITION.
 2. CONNECT TO REMAINING INITIATING DEVICES. SEE FLOOR PLANS.
 3. CONNECT TO REMAINING NOTIFICATION APPLIANCES. SEE FLOOR PLANS PROVIDE NUMBER OF CIRCUITS AS REQUIRED. WHERE FIELD CHARGING POWER SUPPLIES OR NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDERS ARE USED, PROVIDE A SMOKE DETECTOR AT EACH UNIT PER NFPA 72 IN ADDITION TO SMOKE DETECTORS INDICATED ON FLOOR PLANS.

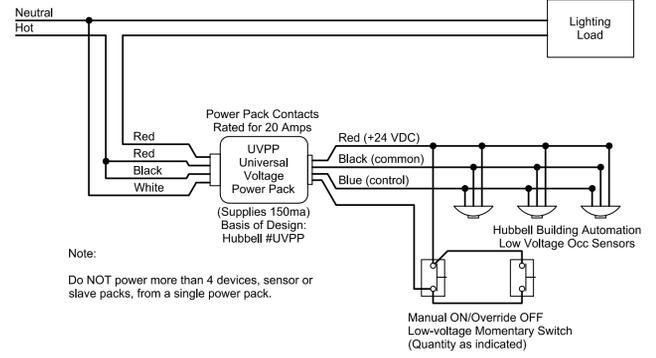
RE-ISSUED FOR ADDENDUM #1
 DATE: 01/05/2016

A4 FIRE ALARM RISER DIAGRAM



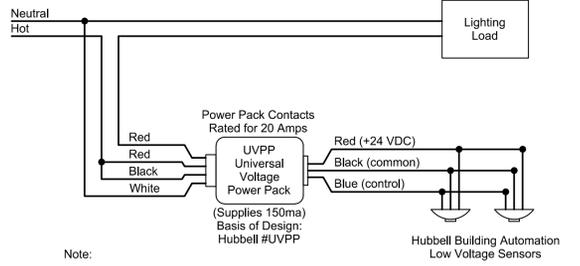
Note:
 Do NOT power more than 4 devices, sensor or slave packs, from a single power pack.

E1 TWO MANUAL ON/AUTO OFF GROUPS WITH CEILING SENSORS



Note:
 Do NOT power more than 4 devices, sensor or slave packs, from a single power pack.

C1 MANUAL SWITCHING WITH AUTO OFF



Note:
 Do NOT power more than 4 devices, sensor or slave packs, from a single power pack.

A1 AUTO ON/AUTO OFF

160 Veranda Street
 Portland, Maine 04103
 T: 207.221.2260
 F: 207.221.2266
 Web: www.allied-eng.com

Allied Engineering
 Structural Mechanical Electrical Commissioning

GRANT HAYS ASSOCIATES
 ARCHITECTURE & INTERIOR DESIGN
 P.O. BOX 6178 FALMOUTH MAINE 04103
 207.871.5900 www.granthays.com

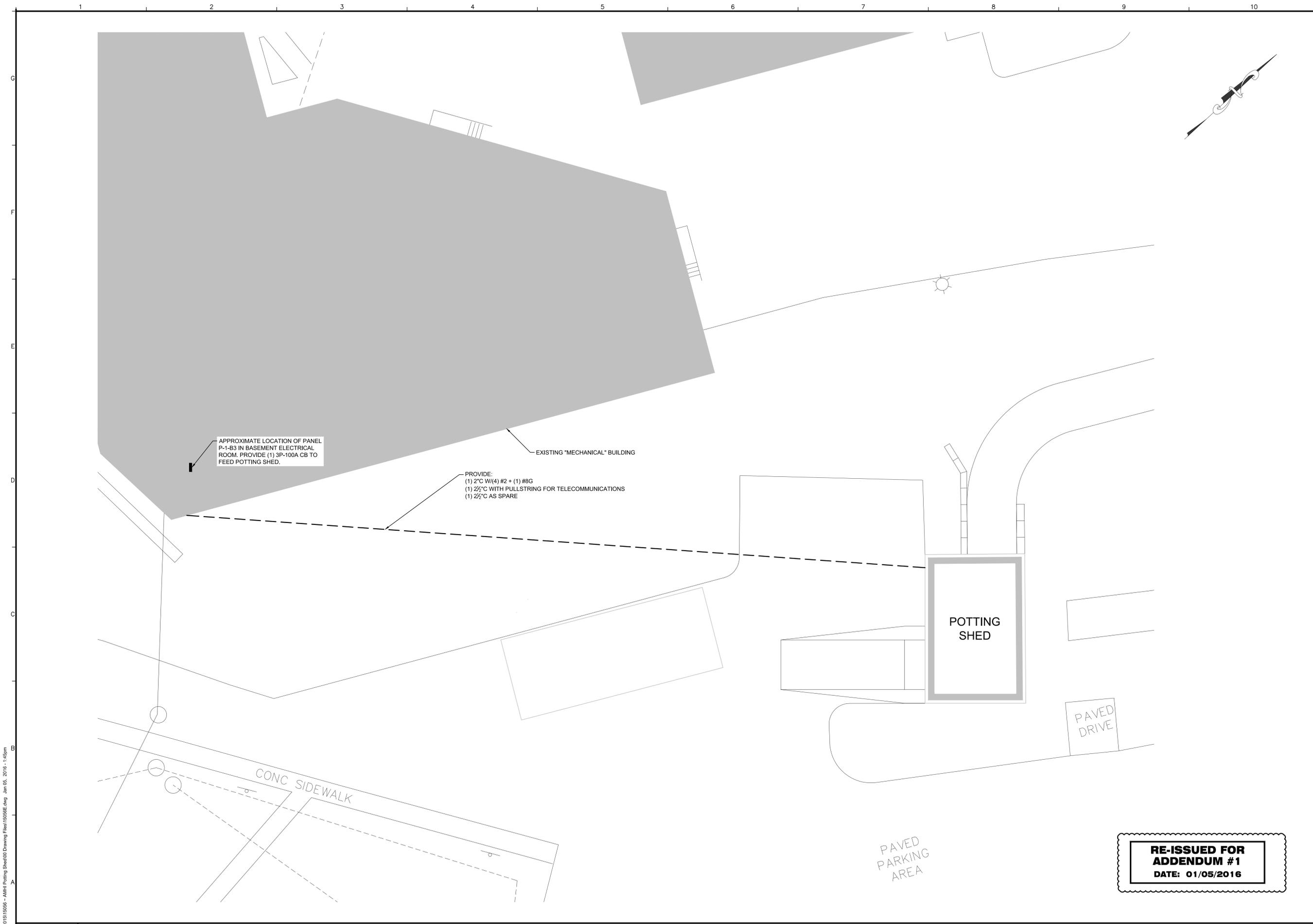
Date: -
 Drawn By: GMC
 Checked By: SRM
 Project Mgr: WPF
 Project No: 15056
 Cad File: 15056E.dwg
 Graphic: 0
 Scale: 1"

ELECTRICAL DETAILS
 AMHI - POTTING SHED CONVERSION
 FOR BUREAU OF GENERAL SERVICES
 77 STATE STREET
 AUGUSTA, MAINE 04333

E-2

ISSUED FOR BID ~ 23 DECEMBER 2015 ~ NOT FOR CONSTRUCTION

N:\Projects\2015\15056 - AMHI Pottng Shed\00 Drawing Files\15056E.dwg Jan 05, 2016 - 1:44pm



160 Veranda Street
 Portland, Maine 04103
 T: 207.221.2260
 F: 207.221.2266
 Web: www.allied-eng.com

Allied Engineering
 Structural Mechanical Electrical Commissioning

GRANT HAYS ASSOCIATES

ARCHITECTURE & INTERIOR DESIGN
 P.O. BOX 6178 FALMOUTH MAINE 04103
 207.871.5900 www.granthays.com

Date:	-
Drawn By:	GMC
Checked By:	SRM
Project Mgr:	WPF
Project No:	15056
Coord File:	15056E.dwg
Graphic Scale:	0 1"

ELECTRICAL SITE PLAN

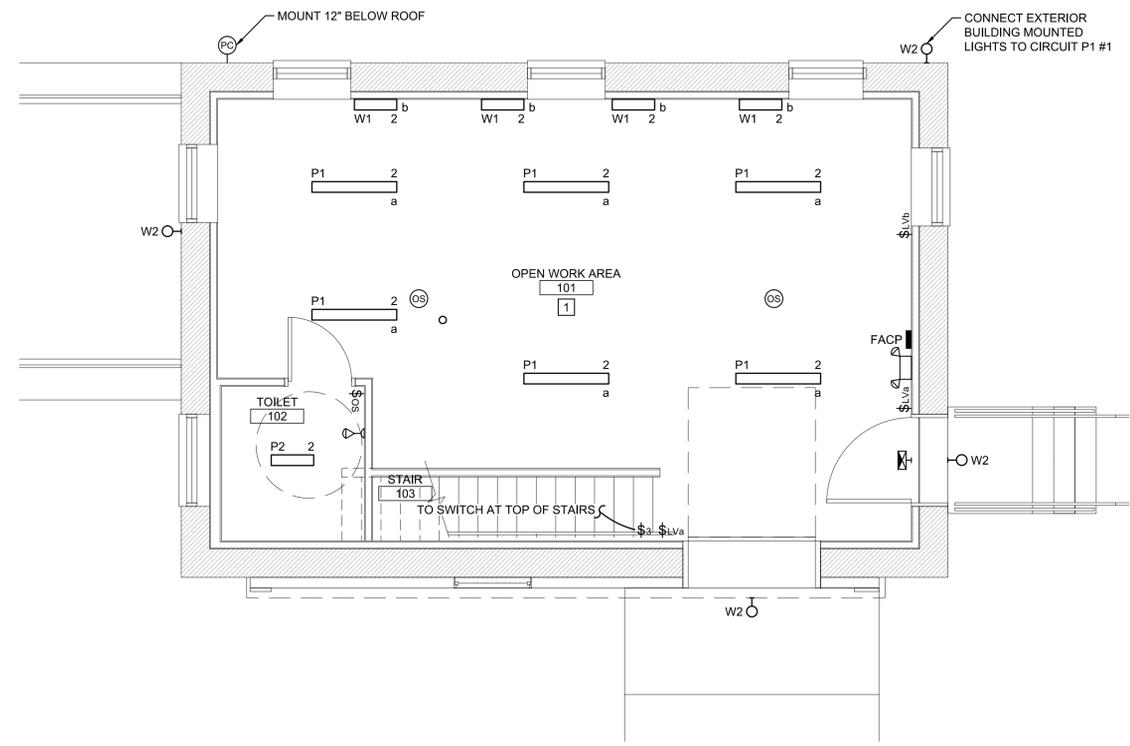
AMHI - POTTING SHED CONVERSION
 FOR BUREAU OF GENERAL SERVICES
 77 STATE STREET AUGUSTA, MAINE 04333

© COPYRIGHT 2015 ALLIED ENGINEERING, INC.

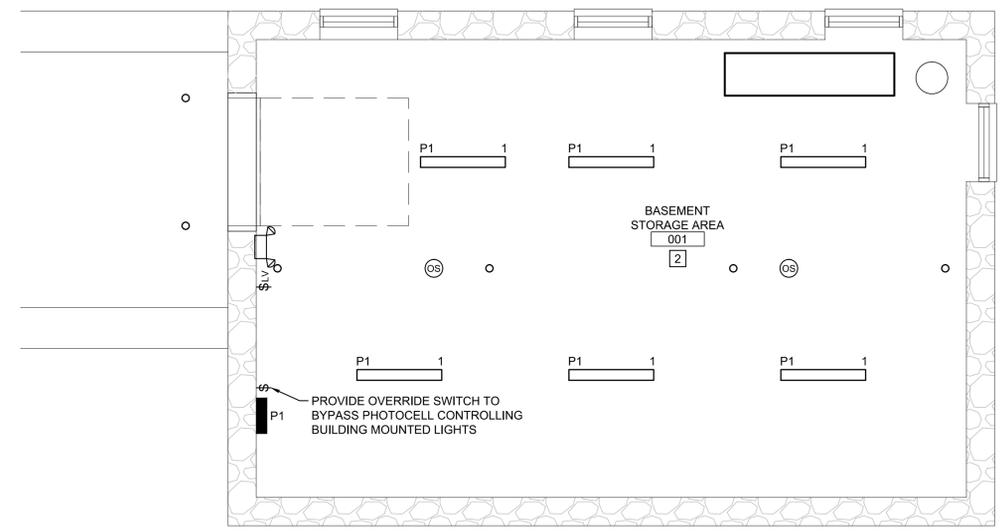
RE-ISSUED FOR ADDENDUM #1
 DATE: 01/05/2016

ISSUED FOR BID ~ 23 DECEMBER 2015 ~ NOT FOR CONSTRUCTION

ES-1



D1 FIRST FLOOR LIGHTING PLAN
SCALE: 1/4"=1'-0"



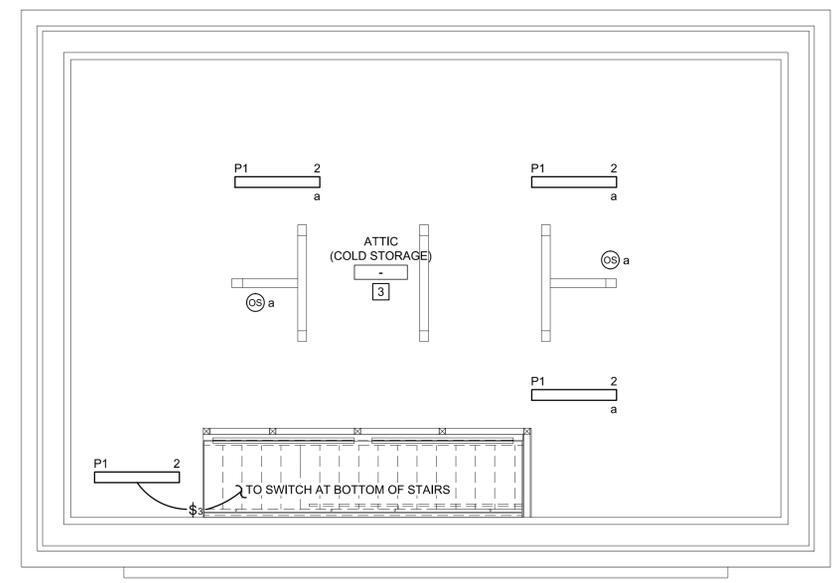
A1 BASEMENT LIGHTING PLAN
SCALE: 1/4"=1'-0"

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER SEE NOTE 1	MOUNTING	VOLTS	LAMP			KEY NOTES
						QTY PER FIXTURE	WATTS	TYPE	
P1	4' PENDANT MOUNTED LED STRIP WITH LENS	METALUX	4-SNLED-LD4-46SL-LC-L835	PENDANT - 8'-0" AFF	120	1	41	LED ARRAY 3500K	
P2	2' SURFACE MOUNTED LED STRIP WITH LENS	METALUX	2-SNLED-LD4-18SL-LC-L835	SURFACE	120	1	17	LED ARRAY 3500K	
W1	2' LED WALL BRACKET	METALUX	2BCLED-LD4-20SL-L835	SURFACE- 7'-0" AFF	120	1	23	LED ARRAY 3500K	
W2	LED YARD LIGHT	BASELITE	YL14-21	1'-0" BELOW SECOND FLOOR LEVEL	120	1	21	LED ARRAY	4
EXIT	EXIT SIGN WITH BATTERY BACKUP	COOPER	SLX-7	SEE NOTE 2	120	1	3.8	LED ARRAY	2
EBU	EMERGENCY BATTERY UNIT	CHLORIDE	CMF-W-WTB-2	CEILING	6VDC	2	9	TUNGSTEN	5

F6 LUMINAIRE SCHEDULE
NO SCALE

- 1 LIGHTING CONTROL SHALL BE MANUAL ON BY LOCAL LOW VOLTAGE SWITCHES. SWITCH a SHALL CONTROL SWITCH GROUP a AND SWITCH b SHALL CONTROL SWITCH GROUP b. AUTO OFF SHALL BE BY CEILING OCCUPANCY SENSOR(S) - SEE DETAIL E1/E-2
- 2 LIGHTING CONTROL SHALL BE MANUAL ON BY LOW VOLTAGE WALL SWITCH AND AUTO OFF BY CEILING OCCUPANCY SENSOR(S) - SEE DETAIL C1/E-2
- 3 LIGHTING CONTROL SHALL BE AUTO ON AND AUTO OFF BY CEILING OCCUPANCY SENSOR(S) - SEE DETAIL A1/E-2

D9 LIGHTING CONTROL KEYNOTES
NO SCALE



A6 ATTIC LIGHTING PLAN
SCALE: 1/4"=1'-0"

**RE-ISSUED FOR
ADDENDUM #1
DATE: 01/05/2016**

N:\Projects\20151215\15056 - AMHI Potting Shed\00 Drawing Files\15056E.dwg Jan 05, 2016 - 1:45pm

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

Allied Engineering
 Structural Mechanical Electrical Commissioning

GRANT HAYS ASSOCIATES
 ARCHITECTURE & INTERIOR DESIGN
 P.O. BOX 6078 FALMOUTH MAINE 04103
 207.871.5900 www.granthays.com

Date: -
 Drawn By: GMC
 Checked By: SRM
 Project Mgr: WPF
 Project No: 15056
 Cad File: 15056E.dwg
 Graphic: 0
 Scale: 1"

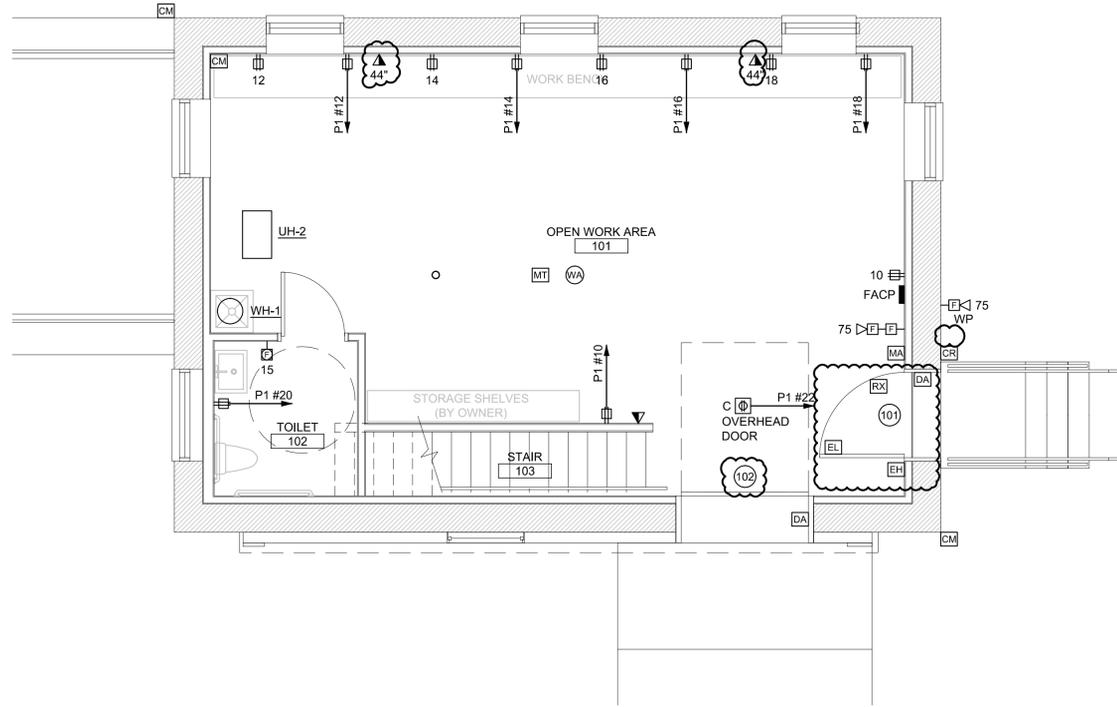
ELECTRICAL LIGHTING PLANS

AMHI - POTTING SHED CONVERSION
 FOR BUREAU OF GENERAL SERVICES
 77 STATE STREET
 AUGUSTA, MAINE 04333

© COPYRIGHT 2015 ALLIED ENGINEERING, INC.

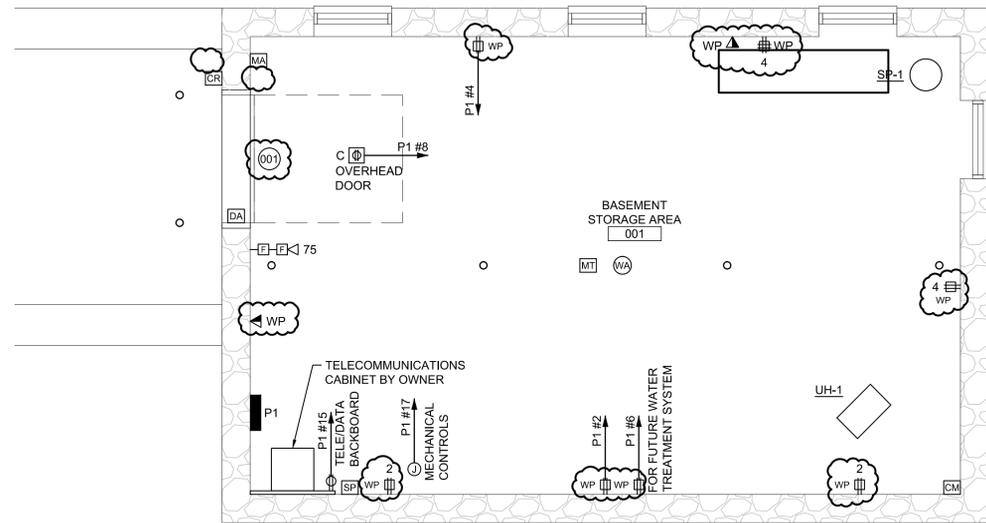
EL-1

ISSUED FOR BID ~ 23 DECEMBER 2015 ~ NOT FOR CONSTRUCTION



D1 FIRST FLOOR POWER & SYSTEMS PLAN

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



NOTE: FOR ALL INTERIOR ITEMS MOUNTED TO EXTERIOR WALLS IN THE BASEMENT, PROVIDE 2x4 SLEEPERS OR OTHER MEANS TO PREVENT DIRECT CONTACT WITH STONE AND BRICKWORK.

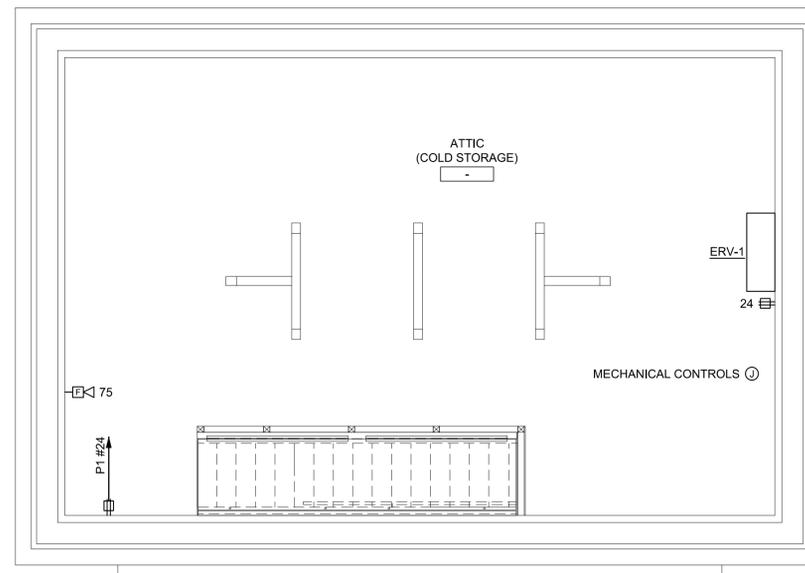
A1 BASEMENT POWER & SYSTEMS PLAN

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

PANEL SCHEDULE ~ P1							
VOLTAGE: 208/120V				MCB: 100A		AIC: 10KA	
3-PHASE, 4-WIRE							
CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	0.33			BASEMENT & EXTERIOR LIGHTS
3	20	1	B		0.52		FIRST FLOOR & ATTIC LIGHTS
5	20	1	C			2.00	EW-1
7	15	1	A	1.00			UH-1, UH-2
9	20	1	B		1.18		SP-1
11	15	2	C			1.06	ERU-2
13			A	1.06			
15	20	1	B		0.00		TELEPHONE BACKBOARD REC
17	20	1	C			0.00	MECHANICAL CONTROLS
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00		SPARE
29	20	1	C			0.00	SPARE
SUBTOTAL				2.39	1.70	3.06	
2	20	1	A	0.54			BASEMENT RECEPTACLES
4	20	1	B		0.54		BASEMENT RECEPTACLES
6	20	1	C			0.00	WATER TREATMENT SYSTEM REC
8	20	1	A	0.00			BASEMENT OVERHEAD DOOR REC
10	20	1	B		0.36		FIRST FLOOR REC
12	20	1	C			0.36	WORKBENCH REC
14	20	1	A	0.36			WORKBENCH REC
16	20	1	B		0.36		WORKBENCH REC
18	20	1	C			0.36	WORKBENCH REC
20	20	1	A	0.18			BATHROOM REC
22	20	1	B		0.18		FIRST FLOOR OVERHEAD DOOR REC
24	20	1	C			0.36	ATTIC REC
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
SUBTOTAL				1.08	1.44	1.08	

D6 PANEL SCHEDULE

RE-ISSUED FOR ADDENDUM #1
DATE: 01/05/2016



A6 ATTIC POWER & SYSTEMS PLAN

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

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

Allied Engineering
Structural Mechanical Electrical Commissioning

GRANT HAYS ASSOCIATES
ARCHITECTURE & INTERIOR DESIGN
P.O. BOX 6078 FALMOUTH MAINE 04103
207.871.5900 www.granthays.com

Date: -
Drawn By: GMC
Checked By: SRM
Project Mgr: WPF
Project No: 15056
Cad File: 15056E.dwg
Graphic: 0
Scale: 1"

ELECTRICAL POWER AND SYSTEMS PLANS

AMHI - POTTING SHED CONVERSION
FOR BUREAU OF GENERAL SERVICES
77 STATE STREET
AUGUSTA, MAINE 04333

EP-1

ISSUED FOR BID ~ 23 DECEMBER 2015 ~ NOT FOR CONSTRUCTION