

## Addendum #2

Directorate of Facilities Engineering

14 September 2016

This Addendum modifies, amends, and supplements designated parts of the Contract Documents, Specifications and Drawings for:

**Sanford Armory Renovation, 88 William Oscar Emery Drive, Sanford, Maine, Project Number 23SR15-424-D, BGS Project Number 2518, Bid Number 17-005.**

It shall be the responsibility of the Contractor to notify all Subcontractors and Suppliers for various portions of the work of any changes or modifications contained in this Addendum.

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### **Specification Items:**

1. **Replace** Section **00 41 13**, Contractor Bid Form, page 2 of 3 with enclosed revised Section 00 41 13, Contractor Bid Form, page 2 of 3. Addendum #2 is noted on page 2 of 3.
2. **Replace** Section **00 52 13**, Construction Contract, page 2 of 3 with enclosed revised Section 00 52 13, Construction Contract page 2 of 3. Addendum #2 is noted on page 2 of 3.

3. Specification Section **114000**:

- a. Paragraph 3.5, **Add** subparagraph C.:

C. Note: Contractor shall remove, store and protect existing equipment on site for reinstallation when new kitchen is ready. The contractor is responsible to verify and provide all utilities necessary to connect existing kitchen equipment and kitchen equipment provided by Owner.

- b. Paragraph 3.5, **Replace** Item #21 with the following:

Item #: 21

Description: Exhaust Hood System

Manufacturer: Captive-Aire

Model #: 5418 SND-2

Log Classification: A

National Stock Number: NNSN

SIS #: T037

Quantity: 1

Specification:

Unit to be size and shape as shown on plans and in details. Model 5418 SND-2, 4'-0" long sloped exhaust only, wall canopy hood for low ceiling applications with built-in 3" back standoff, self-cleaning.

The hood shall be a Type I exhaust hood with factory installed spray and manifold assembly. Assemblies shall be ETL Sanitation listed and ETL listed to conform to UL710, ULC710, and UL508A.

The hood shall be constructed of 100% Stainless steel, either 304 or 430. All welds in the plenum shall be dye-penetrated tested for leaks. High efficiency baffle filters shall be installed in hood, and the sprayers located inside the plenum will clean the back of the filters. All plumbing shall be standard brass pipefitting except for penetrations, which shall be stainless steel. All nozzles shall be wide-angle, full-cone with internal strainer and pressure sensitive check valve.

The water inlet shall be a 3/4" NPT pipefitting. Drains shall consist of one 1 1/2" NPT pipe, unless exhaust hood is over 10' long or 30" tall, in which case two drains shall be installed. A ball valve shall be installed with the manifold for servicing the self-cleaning system. All surfactant injection shall be done after a vacuum breaker backflow prevention valve. Timers shall be factory set for a three-minute wash cycle with a one second surfactant injection before a delay of one minute.

The hood shall be complete with the following options and accessories:

- 100% 304 Stainless Steel.
- Filters – (2) Two 20" tall x 16" wide stainless steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns.
- Extra Set of Hood Filter – (2) Two 20" tall x 16" wide stainless steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns.
- 3' Fluorescent Light, F25T8, 25 Watts, T-8 Ballast, Bulbs by Others.
- Exhaust Riser – Factory installed 10" x 9" x 4".
- Right quarter end panel. 23" top width, 0" bottom width, 23" high, 304 SS.
- W1-Self Cleaning
- Drain Kit used on hoods with W1, W2, W3, WC and Condensate Gutter options. Left or Right. Size building grease trap interceptor accordingly.
- Insulation for back of hood.
- Minimum 18-gauge hood construction.
- Left vertical end panel. 27" top width, 21" bottom width, 74" high insulated 304 stainless steel.

Unit to be complete with (1) One model SCS075Z1W1-FP Self Cleaning System, Smart Controls - 1" Manifold. Hot Water Wash, One zone, Programmable Schedule, Web interface, Back Flow Preventer. Fans thermostatically controlled. Includes 2 Duct Thermostats. (1) One 30" x 30" x 7" Stainless Steel Control Cabinet. (1) One 12" x 30" x 7" Stainless Steel Cabinet for 3/4" and 1" Back Flow preventor (Mounted below the 30" x 30" x 7" control cabinet). (1) One 12" x 10" Stainless Steel Box. Includes latch. (1) One Slow-Close Solenoid Valve. 3/4" NPT valve. Normally Closed. DIN Wiring Connection. 120V Coil (100) One Hundred feet of RTD CABLE - 18/3 AWG plenum rated. USED for RTD duct stats. Used in retro temp sensor kits.

Hood to be complete with a Fire Suppression System field installed UL300 hood fire suppression systems. Includes up to 2" mechanical gas valve, chrome sleeving on exposed piping, test, and permits as required. Gas valve needs to be installed by others prior to the fire system installation. System to include recessed mounted manual pull station, and ALL recessed mounted components, piping, and conduit. System to be sized and designed to provide fire protection for hood # 21 and hood # 50.

Factory Services to be included for all hoods:

- Additional trip by SDV agent to coordinate CORE system install details with all trades - GC to set up meeting.
- Service Design Verification for CORE Fire System.
- Service Design Verification for Demand Control Ventilation.
- Service Design Verification for all Hoods.
- Service Design Verification Mileage Charge: (60) x 2 = 120 total miles.

Note:

A stainless steel enclosure cabinet shall be supplied to enclose all exposed conduit to SCS control panels. From the top of control panels to finished ceiling. Unit to be constructed of 18-gauge stainless steel with angle iron internal support frame. Unit to be approximately 60" wide, 36" high, and 7" deep. (verify all dimensions with field conditions. Unit shall have a removable front panel that shall have hemmed edges on all four sides and shall be attached the internal frame with stainless steel bolts.

c. Paragraph 3.5, **Replace** Item #31 with the following:

Item #: 31

Description: Condensate Hood

Manufacturer: Captive-Aire

Model #: 4818 VHB-G

Log Classification: A

National Stock Number: NNSN

SIS #: T037

Quantity: 1

Specification:

Unit to be size and shape as shown on plans and in details. Model 4818VHB-G, 4'-0" long condensate hood with full perimeter gutter and the following features:  
Heat/Condensate hood is a single vent hood used for non-grease applications for the removal of heat, vapor, etc. Hood shall have the size, shape and performance specified on the drawings.

Finish shall be #3 or #4 polish where exposed. Hood shall be wall type with fully welded 10-gauge corner hanging angles. Corner hanging angles have a .625 x 1.500 slot pre-punched at the factory; this allows hanging rods to be used for quick and safe installations. Hanging rod and connection is provided by and installed by others. The hood manufacture shall supply complete submittal drawings including hood section views(s) and hood plan view(s). These drawings must be made available to the engineer, architect and owner for their use in construction, operation and maintenance. Exhaust duct collar to be 4" high with 1" flanges. Duct sizes, CFM and static pressure requirements shall be as shown on the drawings.

Unit to be complete with the following options and accessories:

- 304 Stainless Steel - 100% Application.
- EXHAUST RISER - Factory installed 10" Diameter x 4" Height.
- MIN 18 GAUGE HOOD
- (1) One face mounted fan switch. Right side of hood.

Factory Services to be included for all hoods:

- Additional trip by SDV agent to coordinate CORE system install details with all trades - GC to set up meeting.
- Service Design Verification for CORE Fire System.
- Service Design Verification for Demand Control Ventilation.
- Service Design Verification for all Hoods.
- Service Design Verification Mileage Charge: (60) x 2 = 120 total miles.

d. Paragraph 3.5, **Replace** Item #38 with the following:

Item #: 38

Description: Condensate Hood

Manufacturer: Captive-Aire

Model #: 3618VHB-G

National Stock Number: NNSN

SIS #: T037

Quantity: 1

Specification:

Unit to be size and shape as shown on plans and in details. Model 3618VHB-G, 3'-0" long condensate hood with full perimeter gutter and the following features:  
Heat/Condensate hood is a single vent hood used for non-grease applications for the removal of heat, vapor, etc. Hood shall have the size, shape and performance specified on the drawings.

Finish shall be #3 or #4 polish where exposed. Hood shall be wall or island type with fully welded 10-gauge corner hanging angles. Corner hanging angles have a .625 x 1.500 slot pre-punched at the factory; this allows hanging rods to be used for quick and safe installations. Hanging rod and connection is provided by and installed by others. The hood manufacture shall supply complete submittal drawings including hood section views(s) and hood plan view(s). These drawings must be made available to the engineer, architect and owner for their use in construction, operation and maintenance. Exhaust duct collar to be 4" high with 1" flanges. Duct sizes, CFM and static pressure requirements shall be as shown on the drawings.

Unit to be complete with the following options and accessories:

- 304 Stainless Steel - 100% Application.
- EXHAUST RISER - Factory installed 10" Diameter x 4" Height.
- Min. 18 Gauge Hood.
- (1) One face mounted fan switch. Right side of hood.

Factory Services to be included for all hoods:

- Additional trip by SDV agent to coordinate CORE system install details with all trades - GC to set up meeting.
- Service Design Verification for CORE Fire System.
- Service Design Verification for Demand Control Ventilation.
- Service Design Verification for all Hoods.
- Service Design Verification Mileage Charge: (60) x 2 = 120 total miles.

e. Paragraph 3.5, **Replace** Item #50 with the following:

Item #: 50  
Description: Exhaust Hood  
Manufacturer: Captive-Aire  
Model #: 5418 SND-2  
Log Classification: A  
National Stock Number: NNSN  
SIS #: T037  
Quantity: 1

Specification:

Unit to be size and shape as shown on plans and in details. Model 5418 SND-2, 8'-0" long sloped exhaust only, wall canopy hood for low ceiling applications with built-in 3" back standoff, self-cleaning.

The hood shall be a Type I exhaust hood with factory installed spray and manifold assembly. Assemblies shall be ETL Sanitation listed and ETL listed to conform to UL710, ULC710, and UL508A.

The hood shall be constructed of 100% Stainless steel, either 304 or 430. All welds in the plenum shall be dye-penetrated tested for leaks. High efficiency baffle filters shall be installed in hood, and the sprayers located inside the plenum will clean the back of the filters. All plumbing shall be standard brass pipefitting except for penetrations, which shall be stainless steel. All nozzles shall be wide-angle, full-cone with internal strainer and pressure sensitive check valve.

The water inlet shall be a 3/4" NPT pipefitting. Drains shall consist of one 1 1/2" NPT pipe, unless exhaust hood is over 10' long or 30" tall, in which case two drains shall be installed. A ball valve shall be installed with the manifold for servicing the self-cleaning system. All surfactant injection shall be done after a vacuum breaker backflow prevention valve. Timers shall be factory set for a three-minute wash cycle with a one second surfactant injection before a delay of one minute.

The hood shall be complete with the following options and accessories:

- 100% 304 Stainless Steel.
- (6) Six Filters – 20" tall x 16" wide stainless steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns.
- (6) Six Extra Set of Hood Filter – 20" tall x 16" wide stainless steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns.
- (2) Two 3' Fluorescent Light, F25T8, 25 Watts, T-8 Ballast, Bulbs by Others.
- Exhaust Riser – Factory installed 16" diameter x 4" Height.
- RIGHT SIDESPLASH 80.00" High X 48.00" Long 304 SS Vertical (Includes End Caps & Divider Bars)
- BACKSPLASH - INSIDE CORNER 80.00" High X 2.00" Leg Length 304 SS Vertical (Includes End Caps & Divider Bars)
- Right end standoff (fin/Spl) 1" wide 54" long insulated.
- W1 – Self Cleaning
- Drain Kit used on hoods with W1, W2, W3, WC and Condensate Gutter options. Left or Right. Size building grease trap interceptor accordingly.
- Insulation for back of hood.
- Right wall as end panel.

- Minimum 18-gauge hood construction.

Unit to be complete with (1) One model SCS075Z1W1-FP Self Cleaning System, Smart Controls - 1" Manifold. Hot Water Wash, One zone, Programmable Schedule, Web interface, Back Flow Preventer. Fans thermostatically controlled. Includes 2 Duct Thermostats. (1) One 30" x 30" x 7" Stainless Steel Control Cabinet. (1) One 12" x 30" x 7" Stainless Steel Cabinet for 3/4" and 1" Back Flow preventor (Mounted below the 30" x 30" x 7" control cabinet). (1) One 12" x 10" Stainless Steel Box. Includes latch. (1) One Slow-Close Solenoid Valve. 3/4" NPT valve. Normally Closed. DIN Wiring Connection. 120V Coil (100) One Hundred feet of RTD CABLE - 18/3 AWG plenum rated. USED for RTD duct stats. Used in retro temp sensor kits.

Hood to be complete with a Fire Suppression System as specified under Item # 21.

Factory Services to be included for all hoods:

- Additional trip by SDV agent to coordinate CORE system install details with all trades - GC to set up meeting.
- Service Design Verification for CORE Fire System.
- Service Design Verification for Demand Control Ventilation.
- Service Design Verification for all Hoods.
- Service Design Verification Mileage Charge: (60) x 2 = 120 total miles.

f. Paragraph 3.5, **Replace** Item #51 with the following:

Item #: 51

Description: Condensate Exhaust Hood

Manufacturer: Captive-Aire

Model #: 5418 SND-2

Log Classification: A

National Stock Number: NNSN

SIS #: T037

Quantity: 1

Specification:

Unit to be size and shape as shown on plans and in details. Model 5418 SND-2, 8'-0" long sloped exhaust only, wall canopy hood for low ceiling applications with built-in 3" back standoff, self-cleaning.

The hood shall be a Type I exhaust hood with factory installed spray and manifold assembly. Assemblies shall be ETL Sanitation listed and ETL listed to conform to UL710, ULC710, and UL508A.

The hood shall be constructed of 100% Stainless steel, either 304 or 430. All welds in the plenum shall be dye-penetrated tested for leaks. High efficiency baffle filters shall be installed in hood, and the sprayers located inside the plenum will clean the back of the filters. All plumbing shall be standard brass pipefitting except for penetrations, which shall be stainless steel. All nozzles shall be wide-angle, full-cone with internal strainer and pressure sensitive check valve.

The water inlet shall be a 3/4" NPT pipefitting. Drains shall consist of one 1 1/2" NPT pipe, unless exhaust hood is over 10' long or 30" tall, in which case two drains shall be installed. A ball valve shall be installed with the manifold for servicing the self-cleaning system. All surfactant injection shall be done after a vacuum breaker backflow

prevention valve. Timers shall be factory set for a three-minute wash cycle with a one second surfactant injection before a delay of one minute.

The hood shall be complete with the following options and accessories:

- 100% 304 Stainless Steel.
- (5) Five Filters – 20” tall x 16” wide stainless steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns.
- (5) Five Extra Set of Hood Filter – 20” tall x 16” wide stainless steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns.
- (2) Two 3’ Fluorescent Light, F25T8, 25 Watts, T-8 Ballast, Bulbs by Others.
- Exhaust Riser – Factory installed 14” diameter x 4” Height.
- ½ Pint Grease Cup (New Style) Flanged Slotted.
- BACKSPLASH 80.00" High X 192.00" Long 304 SS Vertical (Includes End Caps & Divider Bars)
- Insulation for back of hood.
- Right wall as end panel.
- Minimum 18-gauge hood construction.
- Left Vertical End Panel. 27” top width, 21” bottom width, 74” high insulated 304 stainless steel.
- (1) One face mounted light switch. Mounted on left side of hood.
- (1) One face mounted fan switch. Mounted on left side of hood.

Factory Services to be included for all hoods:

- Additional trip by SDV agent to coordinate CORE system install details with all trades - GC to set up meeting.
- Service Design Verification for CORE Fire System.
- Service Design Verification for Demand Control Ventilation.
- Service Design Verification for all Hoods.
- Service Design Verification Mileage Charge: (60) x 2 = 120 total miles.

4. Specification Section **263100**:

- a. Paragraph 1.4.C., **Add** subparagraph 5.:
  5. Submit shop drawings and design calculations prepared by a Licensed Professional Engineer in the State of Maine.
- b. Paragraph 2.10, **Revise** as follows:

2.10 MOUNTING STRUCTURES

- A. Basis-of-Design Product: Sunlink Precision RMS
- B. Roof Mount: Ballasted system shall be provided that results in no net uplift wind forces on structure assembly.
- C. Photovoltaic panels shall mounted at 30 degrees from structure facing south.
- D. Design the PV structural supports to resist wind forces calculated in accordance with ASCE 7-10 for a wind velocity of 118 MPH, exposure B and risk category II.

- E. Design frames for the seismic forces calculated in accordance with ASCE 7-10 for the seismic criteria indicated.
- F. Design load combinations shall be in accordance with chapter 2 of ASCE 7-10.
- G. No penetrations shall be made thru roof structure or roofing system to attach frames.
- H. Maximum transverse spacing of frames shall not be greater than 9'3" on center.

**Clarification Items:**

1. Clarification: Basketball and Volleyball game lines shown on sheet AE642 are to be painted lines. Basis of design product is Insl-X, Tru-flex Line Marking Paint, manufactured by Benjamin Moore & Co.
2. Question: Will owner be using an independent testing agency for special inspections (concrete, masonry, steel) or should GC include special inspections and testing in bid price?

Answer: As specified in Sections 033000, 051200, 072419 and 264113, the Contractor shall engage a qualified special inspector to perform special inspections and prepare a Test and Inspection Log per Section 014000.

3. Question: Would JM Invinsa HD iso 1/4" 150 psi cover board be acceptable for this project? Reference section 075323-7 2.6 part D wherein 80 psi 1/2" is specified.

Answer: No, a 1/2" cover board is required as specified.

4. Question: Who is the Project "Owner" that the bonds should be made out to?

Answer: The Owner is the State of Maine.

5. Question: Over the past couple of days I have received several requests to provide a quote for the above project. The specifications state the FACP shall be greater than or equal to a Silent Knight Model 5820EL-EVS. We hope you could consider our 4100ES panel that can meet all other specifications. I have attached two documents, a data sheet for the proposed alternate panel in addition to a side by side comparison of the two panels.

Answer: No. The Silent Knight Model 5820EL-EVS is non-proprietary.

**Drawing Items:**

1. **Replace** Food Service Drawings Q-101, Q-102, Q-103, Q-104, Q-107, Q-108, Q-109, Q-110, and Q-111, with enclosed revised Drawings Q-101, Q-102, Q-103, Q-104, Q-107, Q-108, Q-109, Q-110, and Q-111, dated 09/12/16.
2. Enlarged First Floor Sanitary Part Plan, 2/P-403: **Change** the line size of the indirect waste (IW) line from Item 21, Hood Control Panel, to FD-4 located in Cl 110A from 3/4" to **1-1/2"**.

3. **Replace** Alternate 1 and Alternate 2 Drawings SF901, AE901, PV901 and PV902 with enclosed revised Drawings SF901, AE901, PV901 and PV902, dated 09/14/16.
4. **Delete** Alternate 1 Drawings SD901, SF902, SF903, and AE902.

**00 41 13  
Contractor Bid Form**

**Alternate #2 – Photovoltaic System.**

**Lump Sum. Dollars** \_\_\_\_\_.

(written amount of base bid)

**Alternate #2 – Photovoltaic System.**

**Numeral Dollar Amount:**

**Lump Sum. Dollars ( \$** \_\_\_\_\_ **).**

3. Unit Prices *are not included* on this project.
4. The Bidder acknowledges receipt of the following addenda to the specifications and drawings:

**Addendum No.   1   Dated: 9 September 2016**

**Addendum No.   2   Dated: 14 September 2016**

Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_

5. Bid security *is required* on this project.  
The Bidder shall include a satisfactory Bid Bond (section 00 43 13) or a certified or cashier's check for 5% of the bid amount with this completed bid form submitted to the Owner.
6. Filed Sub-bids *are not required* on this project.  
The bid amount includes the following Filed Sub-bids which were submitted to the Bidder and to the Maine Construction Bid Depository.
7. The Bidder agrees, if this bid is accepted by the Owner, to sign the designated Owner-Contractor contract and deliver it, with any and all bonds and affidavits of insurance specified in the Bid Documents, within twelve calendar days after the date of notification of such acceptance, except if the twelfth day falls on a State of Maine government holiday or other closure day, a Saturday, or a Sunday, in which case the aforementioned documents must be received before 12:00 noon on the day following the holiday or other closure day, Saturday or Sunday.

As a guarantee thereof, the Bidder submits, together with this bid, a bid bond or other acceptable instrument as and if required by the Bid Documents.

**ARTICLE 4 CONTRACT BONDS**

§ 4.1 Contract bonds are not required if the contract amount is less than \$125,000 unless bonds are specifically mandated by the contract documents.

§ 4.2 On this project, the *Contractor* ***shall*** furnish the *Owner* the appropriate contract bonds in the amount of 100% of the contract amount.

**ARTICLE 5 PROGRESS PAYMENTS**

§ 5.1 The *Owner* shall make payments on account of the contract as provided therein as follows: Each month 95% of the value, based on contract prices of labor and materials incorporated in the work and of materials suitably stored at the site thereof up to the first day of that month, as certified by the Architect or Engineer.

§ 5.2 The *Owner* may cause the *Contractor* to be paid such portion of the amount retained hereunder as he deems advisable.

**ARTICLE 6 FINAL PAYMENT**

§ 6.1 Final payment shall be due 30 days after completion and acceptance of the work, provided the *Contractor* has submitted evidence satisfactory to the *Owner* that all payrolls, material bills and other indebtedness connected with the work has been paid.

**ARTICLE 7 CONTRACT DOCUMENTS**

§ 7.1 The General Conditions of the contract, instructions to bidders, bid form, Special Provisions, the written specifications and the drawings, and any Addenda, together with this agreement, form the contract; they are as fully a part of the contract as if hereto attached or herein repeated.

§ 7.2 Specifications: **18 August 2016**

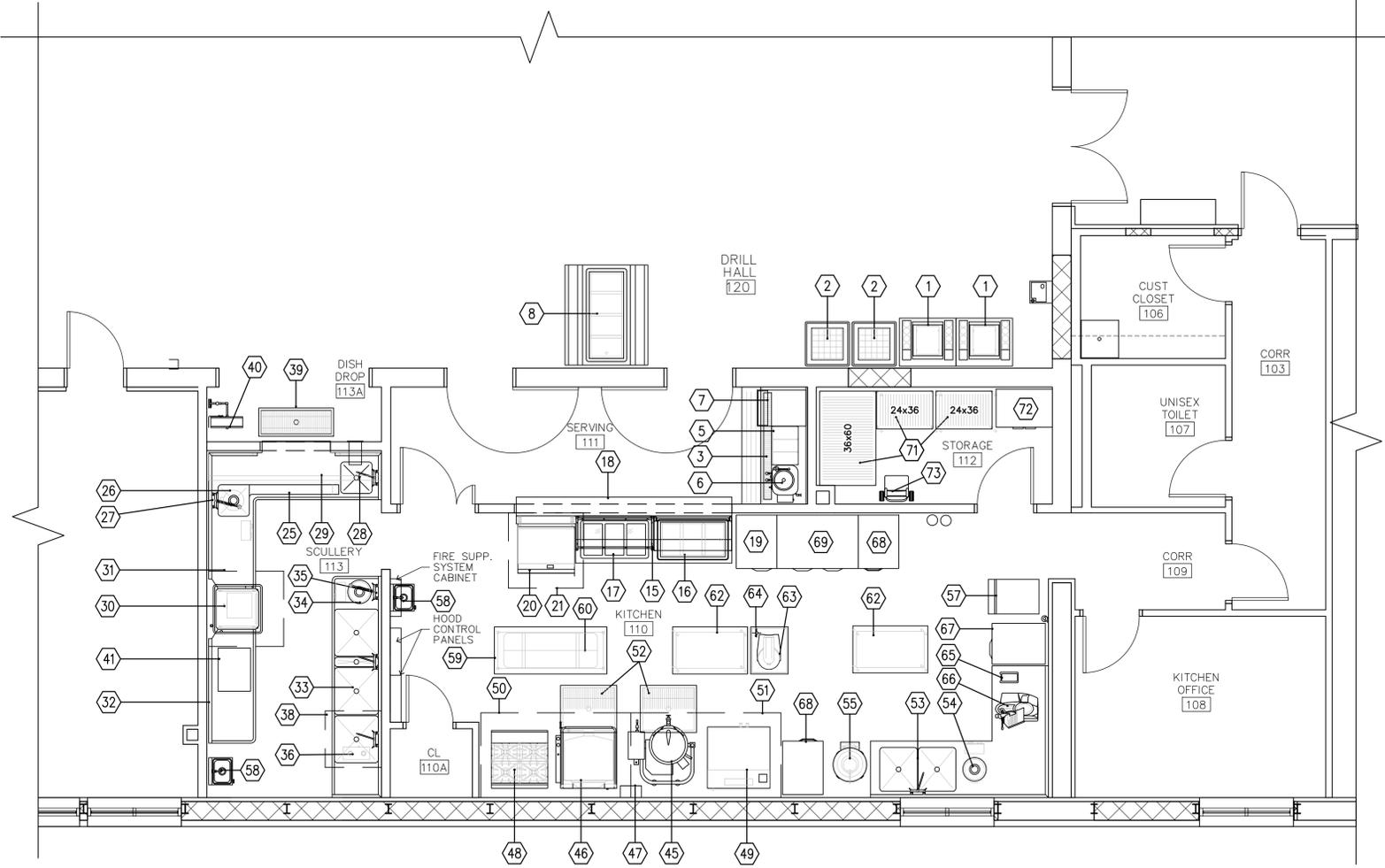
§ 7.3 Drawings: **18 August 2016**

§ 7.4 Addenda: **Addendum #1 – Dated 9 September 2016**

**Addendum #2 – Dated 14 September 2016**

**ARTICLE 8 OTHER PROVISIONS**

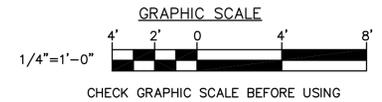
§ 8.1 The *Owner* and the *Contractor* are required to comply with applicable provisions of the American Recovery and Reinvestment Act (ARRA), and the Qualified School Construction Bonds (QSCB) program, including, but not limited to, the Buy American criteria, federal wage rates, and program-specific reporting requirements, for those projects funded through ARRA and QSCB.



ENLARGED KITCHEN PLAN  
SCALE - 1/4" = 1' - 0"

MK.	QTY	DESCRIPTION	MANUFACTURER	MODEL	LOG CLASS
1	2	DISPENSER, TRAY & SILVERWARE	ATLAS METAL	CASB	C
2	2	DISPENSER, GLASS RACK	ATLAS METAL	MER-2020	C
3	1	BEVERAGE COUNTER	FABRICATED	CUSTOM	A
4	-	- SPARE NUMBER -			-
5	1	DISPENSER, BEVERAGE	JET SPRAY	JT 30	C
6	1	COFFEE URN	WILBUR CURTIS	RU-150	A
7	1	ICE/WATER DISPENSER	SERVEND	S-150	A
8	1	SERVING COUNTER, COLD FOOD	ATLAS METAL	CARM-4	C
9	-	- SPARE NUMBER -			-
10	-	- SPARE NUMBER -			-
11	-	- SPARE NUMBER -			-
12	-	- SPARE NUMBER -			-
13	-	- SPARE NUMBER -			-
14	-	- SPARE NUMBER -			-
15	1	SERVING COUNTER	FABRICATED	CUSTOM	A
16	1	COLD FOOD WELL	ATLAS METAL	RM-3	A
17	1	HOT FOOD WELLS	ATLAS METAL	WH-3-DME	A
18	1	TRAYSLIDE	FABRICATED	CUSTOM	A
19	1	HEATED CABINET, 1-SECTION	CONTINENTAL	DL1W-SS-HD	A
20	1	GRIDDLE, COUNTERTOP	VULCAN-HART	MSA36	A
21	1	EXHAUST HOOD	CAPTIVE-AIRE	5418 SND-2	A
22	-	- SPARE NUMBER -			-
23	-	- SPARE NUMBER -			-
24	-	- SPARE NUMBER -			-
25	1	DISHTABLE, SOILED	FABRICATED	CUSTOM	A
26	1	DISPOSER, 5-HP	SALVAJOR	500-SA-6-ARSS	A
27	1	PRE-RINSE FAUCET	T&S BRASS	B-0133	A
28	1	SILVER SOAK SINK	FABRICATED	CUSTOM	A
29	1	SLANT RACK SHELF	FABRICATED	CUSTOM	A
30	1	DISHWASHER, DOOR-TYPE	INSINGER	COMMANDER 18-6	A
31	1	CONDENSATE HOOD	CAPTIVE-AIRE	4818 VHB-G	A
32	1	DISHTABLE, CLEAN	FABRICATED	CUSTOM	A
33	1	SINK, 3-COMPARTMENT	FABRICATED	CUSTOM	A
34	1	DISPOSER, 5-HP	SALVAJOR CO	500-CA-15-ARSS	A
35	1	PRE-RINSE FAUCET	T&S BRASS	B-0133	A
36	1	SINK HEATER	HATCO	3CS-9B	A
37	-	- SPARE NUMBER -			-
38	1	CONDENSATE HOOD	CAPTIVE-AIRE	3618 VHB-G	A
39	1	FLOOR DRAIN GRATE	IMC/TEDDY	FT-1848-SG	A
40	1	HOSE REEL	T&S BRASS	B-1432	A
41	1	BOOSTER HEATER (GAS FIRED)	HATCO	PMG-100	A
42	-	- SPARE NUMBER -			-
43	-	- SPARE NUMBER -			-
44	-	- SPARE NUMBER -			-
45	1	KETTLE, TILTING, 20-GAL	VULCAN-HART	K20GLT	A
46	1	TILTING SKILLET, 30-GALLON	VULCAN-HART	VG30	A
47	1	WATER METER	BAXTER	WM600	A
48	1	RANGE, 4-BURNER	VULCAN	V4B36S	A
49	1	CONVECTION OVEN, DBL. (EXISTING)	GARLAND	MASTER 200	C
50	1	EXHAUST HOOD	CAPTIVE-AIRE	5418 SND-2	A
51	1	CONDENSATE HOOD	CAPTIVE-AIRE	5418 SND-2	A
52	2	FLOOR DRAIN GRATE	IMC/TEDDY	FT-3036-SG	A
53	1	VEGETABLE PREP SINK	FABRICATED	CUSTOM	A
54	1	DISPOSER, 3-HP	SALVAJOR	300-CA-15-ARSS	A
55	1	PELER, VEGETABLE	HOBART	6430	A
56	-	- SPARE NUMBER -			-
57	1	ICE MACHINE WITH BIN (EXISTING)	MANITOWOC	SD0322A/B-320	C
58	2	HAND SINK, KNEE VALVE	ADVANCE/TABCO	7-PS-62	A
59	1	WORK TABLE (EXISTING)	FABRICATED	CUSTOM	C
60	1	UTENSIL RACK	FABRICATED	CUSTOM	A
61	-	- SPARE NUMBER -			-
62	2	WORK TABLE, MOBILE (1-EXISTING)	FABRICATED	CUSTOM	C
63	1	MIXER, 20-QUART (EXISTING)	GLOBE	SP-20	C
64	1	MIXER STAND	ADVANCE/TABCO	MX-SS-302	C
65	1	CAN OPENER, ELECTRIC	EDLUND CO	270	C
66	1	SLICER	HOBART	HS9	C
67	1	FREEZER, 1-SECTION	CONTINENTAL	DL1F-SS-HD	A
68	2	REFRIGERATOR, 1-SECTION	CONTINENTAL	DL1R-SS-HD	A
69	1	REFRIGERATOR, 2-SECTION	CONTINENTAL	DL2R-SS-HD	A
70	-	- SPARE NUMBER -			-
71	3	SHELVING UNIT (EXISTING)	UNKNOWN	UNKNOWN	C
72	1	LOCKER	PIPER	7773-B	C
73	1	TRUCK	WESCO	SPTN-JR-T18-PE	C
74	-	- SPARE NUMBER -			-

LOG CLASSIFICATIONS:  
 A: EQUIPMENT AUTHORIZED TO BE INSTALLED (I.E. ATTACHED TO THE FLOOR AND OR PERMANENTLY CONNECTED TO THE BUILDING STRUCTURE OR UTILITY SYSTEM) AS PART OF THE CONSTRUCTION CONTRACT.  
 C: PORTABLE EQUIPMENT WHICH WILL BE PROVIDED THROUGH SUPPLY CHANNELS AND OWNER INSTALLED (AND WHICH SHOULD NOT BE INCLUDED IN THE CONSTRUCTION CONTRACT) AND FOR WHICH NO UTILITY HOOK-UPS ARE REQUIRED (BUT WHICH SHOULD BE CONSIDERED IN THE SPACE LAYOUT AND OPERATIONAL PLAN).  
 NOTE: EXISTING EQUIPMENT, ITEM'S 49, 57, 59, 62, 63, AND 71 SHALL BE REMOVED FROM THERE CURRENT LOCATION AND ARE TO BE STORED AND PROTECTED FROM DAMAGE. EQUIPMENT WILL THEN BE REINSTALLED WHEN NEW KITCHEN IS READY.



PLAN REVISIONS

Rev#	Description	Date	Appr.
E	ADDENDUM NO. 2	09/12/16	
D	ISSUED FOR BIDDING	08/19/16	
C	ISSUED FOR 95% REVIEW	06/15/16	
B	ISSUED FOR 65% REVIEW	04/19/16	
A	ISSUED FOR 35% REVIEW	02/22/16	

DESIGNED BY: TGB  
 DRAWN BY: TJM  
 CHECKED BY: TGB  
 DATE: 08/18/2016  
 SCALE: AS NOTED  
 DFE PROJECT NO: 23SR15-424-D

STATE OF MAINE  
 DEPARTMENT OF DEFENSE, VETERANS  
 AND EMERGENCY MANAGEMENT

OAK POINT ASSOCIATES  
 ARCHITECTURE, ENGINEERING, & PLANNING  
 231 MAIN STREET  
 BIDEFORD, MAINE  
 207-283-0193

ARMORY RENOVATIONS  
 SANFORD, MAINE

FOOD SERVICE -  
 ENLARGED FLOOR PLAN AND SCHEDULE

PLAN PROGRESS

<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:  
 Q-101  
 SHEET: 93 of 181

FOODSERVICE EQUIPMENT SCHEDULE																					
MK.	QTY	DESCRIPTION	ELECTRICAL				WATER		WASTE		GAS		STEAM				VENTILATION				REMARKS
			FLAMPS	KW	HP	VOLTS	PHASE	DIRECT	PLUG	COLD	HOT	DIRECT	INDIRECT	SIZE	MBTUH	LBS/HR	PSIG	INLET	RETURN	EXHAUST	
																		SIZE	CFM	SIZE	CFM
1	2	DISPENSER, TRAY & SILVERWARE																			
2	2	DISPENSER, GLASS RACK																			
3	1	BEVERAGE COUNTER																			
4	-	- SPARE NUMBER -																			
5	1	DISPENSER, BEVERAGE	9.7		1/3	115	1	X													
6	1	COFFEE URN	24.0	5.0		230	1	X													
7	1	ICE/WATER DISPENSER	2.8			120	1	X													
8	1	SERVING COUNTER, COLD FOOD	7.8		1/3	120	1	X													
9	-	- SPARE NUMBER -																			
10	-	- SPARE NUMBER -																			
11	-	- SPARE NUMBER -																			
12	-	- SPARE NUMBER -																			
13	-	- SPARE NUMBER -																			
14	-	- SPARE NUMBER -																			
15	1	SERVING COUNTER																			
16	1	COLD FOOD WELL	6.0		1/4	120	1	X													
17	1	HOT FOOD WELLS	12.3	2.55		208	1	X													
18	1	TRAYSLIDE																			
19	1	HEATED CABINET, 1-SECTION	7.8	1.5		115/208	1	X													
20	1	GRIDDLE, COUNTERTOP																			
21	1	EXHAUST HOOD	SEE EXHAUST HOOD DETAIL DRAWINGS FOR ALL UTILITY CONNECTIONS AND INTERCONNECTIONS.																10" X 9"	1000	
22	-	- SPARE NUMBER -																			
23	-	- SPARE NUMBER -																			
24	-	- SPARE NUMBER -																			
25	1	DISHTABLE, SOILED																			
26	1	DISPOSER, 5-HP	13.8		5	208	3	X													
27	1	PRE-RINSE FAUCET																			
28	1	SILVER SOAK SINK																			
29	1	SLANT RACK SHELF																			
30	1	DISHWASHER, DOOR-TYPE	19.0	5.0	1	208	3	X													
31	1	CONDENSATE HOOD	SEE EXHAUST HOOD DETAIL DRAWINGS FOR ALL UTILITY CONNECTIONS AND INTERCONNECTIONS.																	10" DIA.	660
32	1	DISHTABLE, CLEAN																			
33	1	SINK, 3-COMPARTMENT																			
34	1	DISPOSER, 5-HP	13.8		5	208	3	X													
35	1	PRE-RINSE FAUCET																			
36	1	SINK HEATER	25.0	9.0		208	3	X													
37	-	- SPARE NUMBER -																			
38	1	CONDENSATE HOOD	SEE EXHAUST HOOD DETAIL DRAWINGS FOR ALL UTILITY CONNECTIONS AND INTERCONNECTIONS.																	10" DIA.	578
39	1	FLOOR DRAIN GRATE																			
40	1	HOSE REEL																			
41	1	BOOSTER HEATER (GAS FIRED)	3.0	0.36		120	1	X													
42	-	- SPARE NUMBER -																			
43	-	- SPARE NUMBER -																			
44	-	- SPARE NUMBER -																			
45	1	KETTLE, TILTING, 20-GAL.	5.0			120	1	X													
46	1	TILTING SKILLET, 30-GALLON	10.0			120	1	X													
47	1	WATER METER	1.0			120	1	X													
48	1	RANGE, 4-BURNER																			
49	1	CONVECTION OVEN, DBL. (EXISTING)	9.8		3/4	120	1	X													
			9.8		3/4	120	1	X													
50	1	EXHAUST HOOD	SEE EXHAUST HOOD DETAIL DRAWINGS FOR ALL UTILITY CONNECTIONS AND INTERCONNECTIONS.																	16" DIA.	2200
51	1	CONDENSATE HOOD	SEE EXHAUST HOOD DETAIL DRAWINGS FOR ALL UTILITY CONNECTIONS AND INTERCONNECTIONS.																	14" DIA.	1800
52	2	FLOOR DRAIN GRATE																			
53	1	VEGETABLE PREP SINK																			
54	1	DISPOSER, 3-HP	8.8		3	208	3	X													
55	1	PEELER, VEGETABLE	3.2		3/4	208	3	X													
					1/2	208	3	X													
56	-	- SPARE NUMBER -																			
57	1	ICE MACHINE WITH BIN (EXISTING)	11.3			115	1	X													
58	2	HAND SINK, KNEE VALVE																			
59	1	WORK TABLE (EXISTING)																			
60	1	UTENSIL RACK, CEILING-MOUNT																			
61	-	- SPARE NUMBER -																			
62	2	WORK TABLE, MOBILE (1-EXISTING)																			
63	1	MIXER, 20-QUART (EXISTING)	6.0		1/2	115	1	X													
64	1	MIXER STAND																			
65	1	CAN OPENER, ELECTRIC	1.5			120	1	X													
66	1	SLICER	5.6		1/2	120	1	X													
67	1	FREEZER, 1-SECTION	7.6		1/3	115	1	X													
68	2	REFRIGERATOR, 1-SECTION	5.5		1/4	115	1	X													
69	1	REFRIGERATOR, 2-SECTION	9.1		1/3	115	1	X													
70	-	- SPARE NUMBER -																			
71	3	SHELVING UNIT (EXISTING)																			
72	1	LOCKER																			
73	1	TRUCK																			
74	-	- SPARE NUMBER -																			



PLAN REVISIONS	
E	ADDENDUM NO. 2
D	ISSUED FOR BIDDING
C	ISSUED FOR 95% REVIEW
B	ISSUED FOR 65% REVIEW
A	ISSUED FOR 35% REVIEW
Rev#	Description
	Date
	Appr.

DESIGNED BY: TEG	DRAWN BY: TJM	CHECKED BY: TCB	DATE: 08/18/2016	SCALE: AS NOTED	DFE PROJECT NO: 23SR15-424-D
STATE OF MAINE DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT			OAK POINT ASSOCIATES ARCHITECTURE, ENGINEERING, & PLANNING 231 MAIN STREET BIDDEFORD, MAINE 207-283-0193		

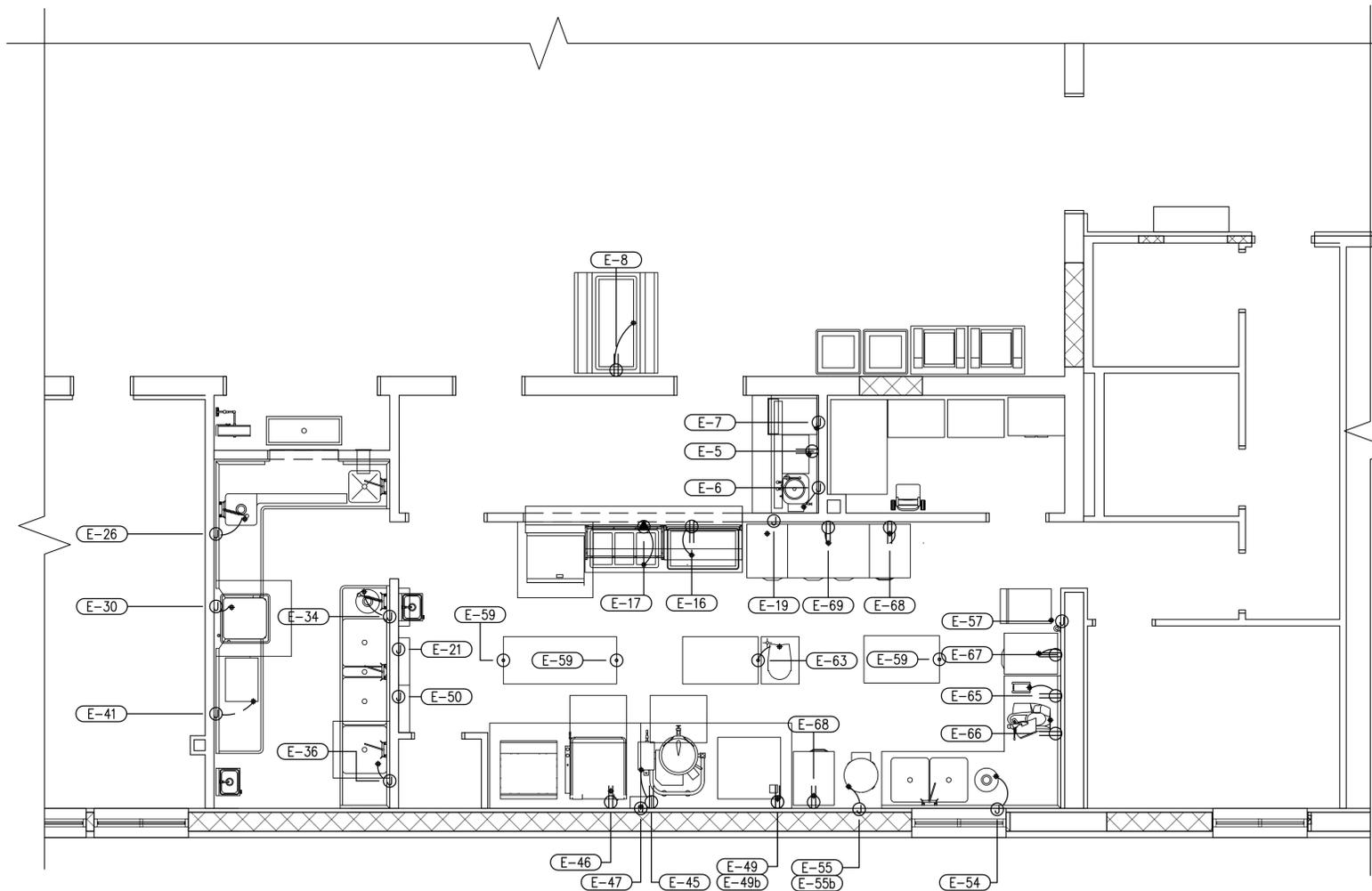
ARMORY RENOVATIONS SANFORD, MAINE	FOOD SERVICE - MECHANICAL SCHEDULE
--------------------------------------	---------------------------------------

PLAN PROGRESS
<input type="checkbox"/> DRAFT
<input type="checkbox"/> 35% REVIEW
<input type="checkbox"/> 65% REVIEW
<input type="checkbox"/> 95% REVIEW
<input type="checkbox"/> FINAL REVIEW
<input checked="" type="checkbox"/> FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTRUCTION
<input type="checkbox"/> RECORD DRAWINGS

SHEET ID: Q-102
SHEET: 94 OF 181



MK.	QTY	CONNECTION CHARACTERISTICS						RI HT +AFF	SERVES ITEM	DESCRIPTION	REMARKS	
		AMPS	KW	HP	VOLTS	PH	JBOX RCPT					
E-5	1	9.7		1/3	115	1		X	50"	5	DISPENSER, BEVERAGE	
E-6	1	24	5		230	1	X		50"	6	COFFEE URN	
E-7	1	2.8			120	1	X		50"	7	ICE/WATER DISPENSER	
E-8	1	7.8		1/3	120	1		X	12"	8	SERVING COUNTER, COLD FOOD	
E-16	1	6		1/4	120	1		X	24"	16	COLD FOOD WELL	
E-17	1	12.3	2.55		208	1		X	24"	17	HOT FOOD WELLS	
E-19	1	7.8	1.5		120/208	1	X		90"	19	HEATED CABINET, 1-SECTION	
E-21	1	15.0			120	1	X		@ CEIL'G	21	EXHAUST HOOD SYSTEM	
E-26	1	13.8		5	208	3	X		24"	26	DISPOSER, 5-HP	
E-30	1	19	5	1	208	3	X		62"	30	DISHWASHER, DOOR-TYPE	
E-34	1	13.8		5	208	3	X		24"	34	DISPOSER, 5-HP	
E-36	1	25	9		208	3	X		12"	36	SINK HEATER	
E-41	1	3.0	0.36		120	1	X		12"	41	BOOSTER HEATER, GAS	
E-45	1	5			120	1		X	24"	45	KETTLE, TILTING, 20-GAL.	
E-46	1	10			120	1		X	24"	46	TILTING SKILLET, 30-GALLON	
E-47	1	1			120	1	X		72"	47	WATER METER	
E-49	1	9.8		3/4	120	1		X	50"	49	CONVECTION OVEN, DOUBLE	EXISTING EQUIPMENT, VERIFY UTILITIES
E-49B	1	9.8		3/4	120	1		X	24"	"	CONVECTION OVEN, DOUBLE	EXISTING EQUIPMENT, VERIFY UTILITIES
E-50	1	15.0			120	1	X		@ CEIL'G	50	EXHAUST HOOD SYSTEM	
E-54	1	8.8		3	208	3	X		24"	54	DISPOSER, 3-HP	
E-55	1	3.2		3/4	208	3	X		50"	55	PEELER, VEGETABLE	
	1			1/2	208	3	X		24"	"	PEELER, VEGETABLE	
E-57	1	11.3			120	1	X		50"	57	ICE MACHINE WITH BIN	EXISTING EQUIPMENT, VERIFY UTILITIES
E-59	3	20			120	1		X	@ CEIL'G	59	WORK TABLE	DROP CORD OUTLET (D.F.A.)
E-63	1	6.0		1/2	120	1		X	@ CEIL'G	63	MIXER, 20-QUART	DROP CORD OUTLET (D.F.A.)
E-65	1	1.5			120	1		X	50"	65	CAN OPENER, ELECTRIC	
E-66	1	5.4		1/2	120	1		X	50"	66	SLICER	
E-67	1	7.6		1/3	115	1		X	90"	67	FREEZER, 1-SECTION	
E-68	2	5.5		1/4	115	1		X	90"	68	REFRIGERATOR, 1-SECTION	
E-69	1	6.5		1/3	115	1		X	90"	69	REFRIGERATOR, 2-SECTION	
E-74	1	37.8		7.5	208	1	X		96"	74	AIR DOOR	



ENLARGED KITCHEN PLAN  
SCALE - 1/4" = 1' - 0"

LEGEND - ELECTRICAL CONNECTIONS

- DUPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
- SIMPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
- SPECIAL PURPOSE OUTLET, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
- SPECIAL PURPOSE OUTLET, 208/240-VOLT AS INDICATED, GROUND TYPE, HORIZONTAL MOUNT
- JUNCTION BOX
- ELECTRICAL CONDUIT, STUB AS INDICATED FOR DIRECT CONNECTION
- FLOOR/CEILING RECEPTACLE AS INDICATED
- ISOLATED GROUND - FOR POS SYSTEM
- WATERPROOF COVER AT RECEPTACLE
- FIELD WIRING, EXPOSED RIGID WATERTIGHT CONDUIT
- FIELD WIRING, CONCEALED IN WALL, FLOOR, OR CEILING

PLAN REVISIONS	
Rev#	Description
E	ADDENDUM NO. 2
D	ISSUED FOR BIDDING
C	ISSUED FOR 95% REVIEW
B	ISSUED FOR 65% REVIEW
A	ISSUED FOR 35% REVIEW

DESIGNED BY: TBC  
DRAWN BY: TJM  
CHECKED BY: TCB  
DATE: 08/18/2016  
SCALE: AS NOTED  
DPE PROJECT NO: 23SR15-424-D

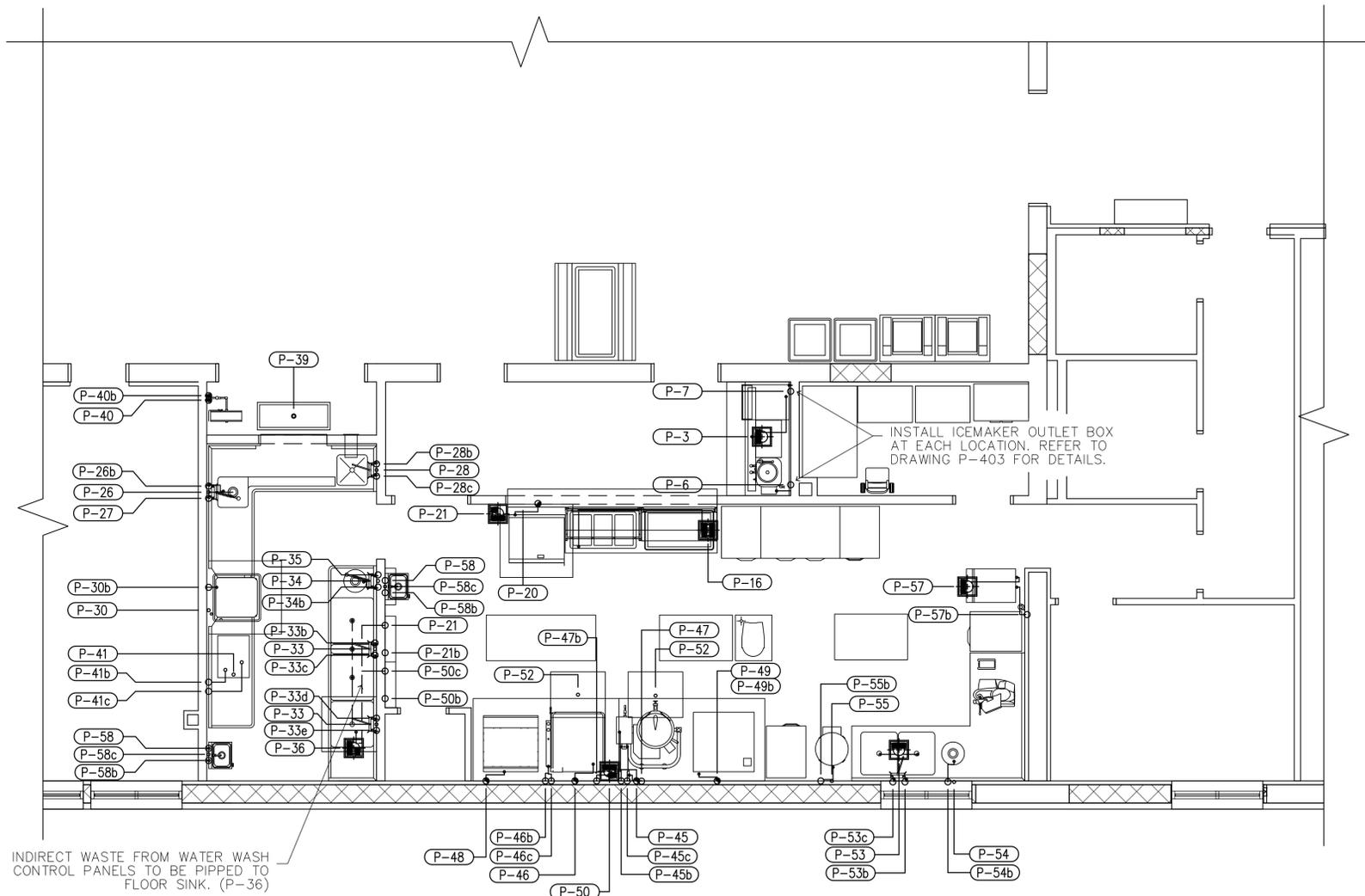
STATE OF MAINE  
DEPARTMENT OF DEFENSE, VETERANS  
AND EMERGENCY MANAGEMENT  
OAK POINT ASSOCIATES  
ARCHITECTURE, ENGINEERING, & PLANNING  
231 MAIN STREET  
BIDDEFORD, MAINE  
207-283-0193

ARMORY RENOVATIONS  
SANFORD, MAINE

FOOD SERVICE -  
ELECTRICAL CONNECTION PLAN

PLAN PROGRESS	
<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:  
Q-103  
SHEET: 95 OF 181



ENLARGED KITCHEN PLAN  
SCALE - 1/4" = 1' - 0"

PLUMBING SERVICE SCHEDULE												
MARK	QTY	C WATER SIZE *FIL	HOT WATER SIZE	WASTE DIR	IND	GAS SIZE	MBH	RI HT +AFF	SRVS ITEM	DESCRIPTION	REMARK	* FILTERED
P-3	1				1"				@ FLOOR 3	BEVERAGE COUNTER	ALSO SERVES ITEM 7	
P-6	1	1/4"						54"	6	COFFEE URN	ICEMAKER OUTLET BOX	
P-7	1	1/2"						54"	7	ICE/WATER DISPENSER	ICEMAKER OUTLET BOX	
P-16	1			3/4"				@ FLOOR 16	16	COLD FOOD WELL	ALSO SERVES ITEM 17	
P-20	1					3/4"	81	30"	20	GRIDDLE, COUNTERTOP		
P-21	2				1-1/2"			@ FLOOR 21	21	EXHAUST HOOD	SEE HOOD DRAWING FOR DETAILS.	
P-21b	1		1"					120"	21	EXHAUST HOOD	SEE HOOD DRAWING FOR DETAILS.	
P-28	1	1"						120"	21	EXHAUST HOOD	SEE HOOD DRAWING FOR DETAILS.	
P-26	1			2"				12"	26	DISPOSER, 5-HP		
P-26b	1	1/2"						18"	"	"	ALSO SERVES ITEM 27	
P-27	1		1/2"					18"	27	PRE-RINSE FAUCET		
P-28	1	1/2"						18"	28	SILVER SOAK SINK		
P-28b	1		1/2"					18"	"	"		
P-28c	1			2"				12"	"	"		
P-30	1			1-1/2"				@ FLOOR 30	30	DISHWASHER, DOOR-TYPE		
P-30b	1	1/2"						60"	"	"	CONNECTION FROM BOOSTER HEATER	
P-33	1	1/2"						18"	33	SINK, 3-COMPARTMENT		
P-33b	1		1/2"					18"	"	"		
P-33c	1	1/2"						18"	"	"		
P-33d	1		1/2"					18"	"	"		
P-33e	1			2"				8"	"	"		
P-34	1			2"				12"	34	DISPOSER, 5-HP		
P-34b	1	1/2"						18"	"	"	ALSO SERVES ITEM 35	
P-35	1		1/2"					18"	35	PRE-RINSE FAUCET		
P-36	1			3/4"				@ FLOOR 36	36	SINK HEATER	ALSO SERVES ITEM 21 AND 50	
P-39	1			3"				6"-BFF	39	FLOOR DRAIN GRATE		
P-40	1	1/2"						48"	40	HOSE REEL		
P-40b	1	1/2"						48"	"	"		
P-41	-							-	41	BOOSTER HEATER, GAS	3/4-NPT OUTLET TO DISHWASHER	
P-41b	1		3/4"					8"	"	"		
P-41c	1			3/4"	105			18"	"	"		
P-45	1			1/2"	100			30"	45	KETTLE, TILTING, 20-GAL.		
P-45b	1	1/2"						18"	"	"		
P-45c	1		1/2"					18"	"	"		
P-46	1			3/4"	90			30"	46	TILTING SKILLET, 30-GALLON		
P-46b	1	1/2"						18"	"	"		
P-46c	1		1/2"					18"	"	"		
P-47	1	1/2"						6'-0"	47	WATER METER		
P-47b	1	1/2"						6'-0"	"	"		
P-48	1			1-1/4"	182			30"	48	RANGE, 4-BURNER	EXISTING EQUIPMENT, VERIFY ALL UTILITIES	
P-49	1			3/4"	60			30"	49	CONVECTION OVEN, DOUBLE	EXISTING EQUIPMENT, VERIFY ALL UTILITIES	
P-49	1			3/4"	60			54"	49	CONVECTION OVEN, DOUBLE	EXISTING EQUIPMENT, VERIFY ALL UTILITIES	
P-50	1			1-1/2"				@ FLOOR 50	50	EXHAUST HOOD	SEE HOOD DRAWING FOR DETAILS.	
P-50c	1		1"					@ FLOOR 50	50	EXHAUST HOOD	SEE HOOD DRAWING FOR DETAILS.	
P-50b	1			1-1/2"				120"	50	EXHAUST HOOD	SEE HOOD DRAWING FOR DETAILS.	
P-52	2			3"				6"-BFF	52	FLOOR DRAIN GRATE		
P-53	1			2"				@ FLOOR 53	53	VEGETABLE PREP SINK		
P-53b	1		1/2"					18"	"	"		
P-53c	1	1/2"						18"	"	"		
P-54	1			2"				12"	54	DISPOSER, 3-HP		
P-54b	1	1/2"						18"	"	"		
P-55	1			2"				8"	55	PEELER, VEGETABLE		
P-55b	1	1/2"						48"	"	"		
P-57	1			1/2 & 3/4				@ FLOOR 57	57	ICE MACHINE WITH BIN	EXISTING EQUIPMENT, VERIFY ALL UTILITIES	
P-57b	1	3/8"						60"	"	"	EXISTING EQUIPMENT, VERIFY ALL UTILITIES	
P-58	2	1/2"						18"	58	HAND SINK, KNEE VALVE		
P-58b	2		1/2"					18"	"	"		
P-58c	2			1-1/2"				24"	"	"		

LEGEND - PLUMBING CONNECTIONS

- HW-HOT WATER, OR CW-COLD WATER
- S-STEAM SUPPLY, OR C-CONDENSATE RETURN
- GAS SUPPLY
- WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
- ⊞ FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
- ⊞ FLOOR DRAIN
- ⊞ FLOOR DRAIN W/ATTACHED FUNNEL
- FIELD CONNECTIONS

PLAN REVISIONS				
Rev#	Description	Date	Appr.	
E	ADDENDUM NO. 2	09/12/16		
D	ISSUED FOR BIDDING	08/19/16		
C	ISSUED FOR 95% REVIEW	06/15/16		
B	ISSUED FOR 65% REVIEW	04/19/16		
A	ISSUED FOR 35% REVIEW	02/22/16		

DESIGNED BY: TBC  
 DRAWN BY: TJM  
 CHECKED BY: TCB  
 DATE: 08/18/2016  
 SCALE: AS NOTED  
 DFE PROJECT NO: 23SR15-424-D

STATE OF MAINE  
 DEPARTMENT OF DEFENSE, VETERANS  
 AND EMERGENCY MANAGEMENT

OAK POINT ASSOCIATES  
 ARCHITECTURE, ENGINEERING, & PLANNING  
 231 MAIN STREET  
 BIDDEFORD, MAINE  
 207-283-1913

ARMORY RENOVATIONS  
 SANFORD, MAINE

FOOD SERVICE -  
 PLUMBING CONNECTION PLAN

PLAN PROGRESS	
<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:  
 Q-104  
 SHEET: 96 OF 181



**HOOD INFORMATION - Job#2760258**

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM					HOOD CONSTRUCTION	HOOD CONFIG.		SWITCHES			
					TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.		CFM	S.P.	END TO END	ROW	QUANTITY	LOCATION
1	#21	5418 SND-2	4' 0.00'	450 Deg.	1000	10"	9"	4"	1000	-0.620"	304 SS 100%	ALONE	ALONE			
2	#31	4818 VHB-G-ND	4' 0.00'	700 Deg.	660			4"	10"	660	-0.109"	304 SS 100%	ALONE	ALONE		
3	#38	3618 VHB-G-ND	3' 6.00'	700 Deg.	578			4"	10"	578	-0.084"	304 SS 100%	ALONE	ALONE		
4	#50	5418 SND-2	8' 0.00'	600 Deg.	2200			4"	16"	2200	-0.786"	304 SS 100%	RIGHT	ALONE		
5	#51	5418 SND-2	8' 0.00'	450 Deg.	1800			4"	14"	1800	-0.279"	304 SS 100%	LEFT	ALONE		

**HOOD INFORMATION**

HOOD NO.	TAG	TYPE	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT
			QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	ELECTRICAL		
1	#21	Captrate Solo Filter	2	20"	16"	93% See Filter Spec.	1	3' Fluorescent	NO					NO	284 LBS
2	#31						0							NO	152 LBS
3	#38						0							NO	121 LBS
4	#50	Captrate Solo Filter	6	20"	16"	93% See Filter Spec.	2	3' Fluorescent	NO					NO	451 LBS
5	#51	Condensate Baffle	5	20"	16"	N/A	2	3' Fluorescent	NO					NO	372 LBS

**HOOD OPTIONS**

HOOD NO.	TAG	OPTION
1	#21	RIGHT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 304 SS W1-SELF CLEANING INSULATION FOR BACK OF HOOD MIN 18 GAUGE HOOD LEFT VERTICAL END PANEL 27' Top Width, 21' Bottom Width, 74' High Insulated 304 SS
2	#31	MIN 18 GAUGE HOOD
3	#38	MIN 18 GAUGE HOOD
4	#50	RIGHT SIDESPLASH 80.00' High X 54.00' Long 304 SS Vertical BACKSPLASH - INSIDE CORNER 74.00' High X 2.00' Leg Length 304 SS Vertical RIGHT END STANDOFF(FIN/SLP) 1' Wide 54' Long Insulated W1-SELF CLEANING INSULATION FOR BACK OF HOOD MIN 18 GAUGE HOOD RIGHT WALL AS END PANEL
5	#51	BACKSPLASH 80.00' High X 192.00' Long 304 SS Vertical INSULATION FOR BACK OF HOOD MIN 18 GAUGE HOOD LEFT VERTICAL END PANEL 27' Top Width, 21' Bottom Width, 74' High Insulated 304 SS

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER**

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

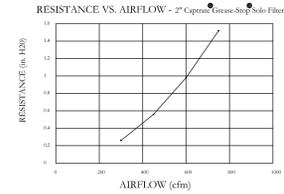
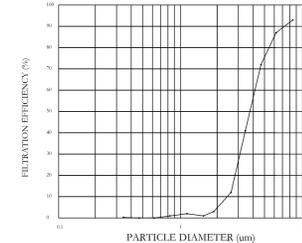
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.

FILTER COLLECTION EFFICIENCY 2" Captrate® Grease-Stop® Solo Filter

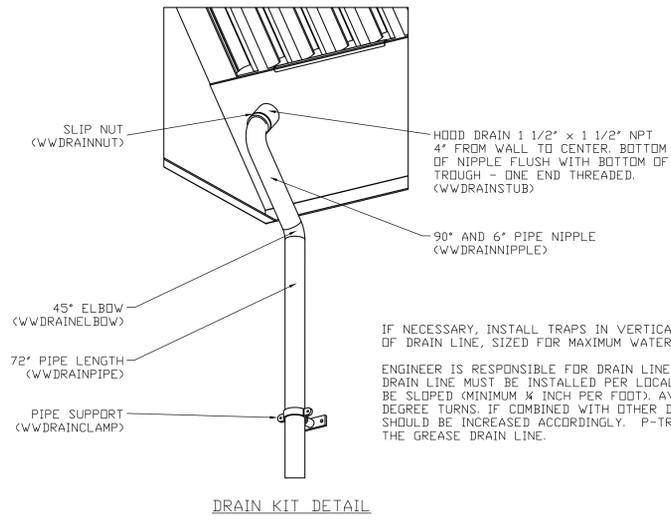


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96  
NSF STANDARD #2  
UL STANDARD #1046  
INT. MECH. CODE (IMC)  
ULC-S649

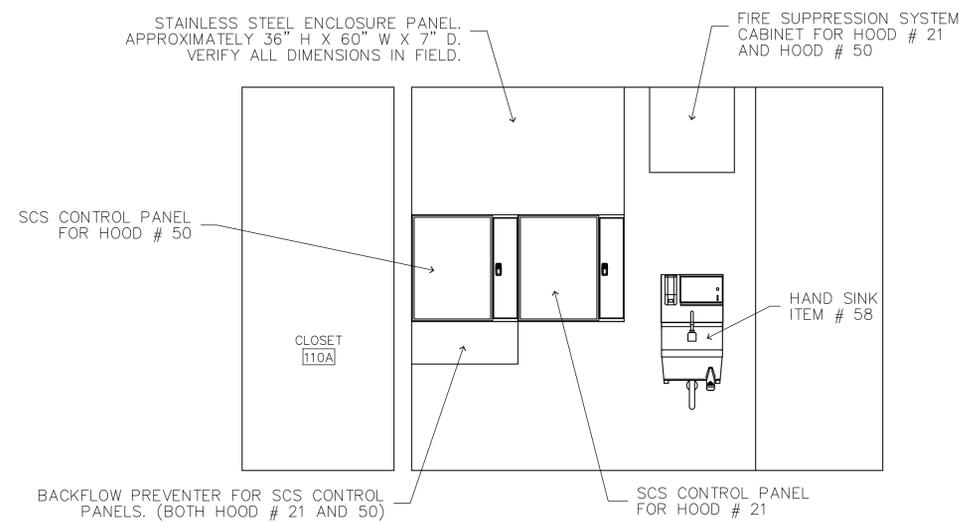


Rev#	Description	Date	Appr.
E	ADDENDUM NO. 2	09/12/16	
D	ISSUED FOR BIDDING	08/19/16	
C	ISSUED FOR 95% REVIEW	06/15/16	
B	ISSUED FOR 65% REVIEW	04/19/16	
A	ISSUED FOR 35% REVIEW	02/22/16	

DESIGNED BY: TEG	DRAWN BY: TJM	CHECKED BY: TCB	DATE: 08/18/2016	SCALE: AS NOTED	DFE PROJECT NO: 23SR15-424-D
STATE OF MAINE DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT			OAK POINT ASSOCIATES ARCHITECTURE, ENGINEERING, & PLANNING 231 MAIN STREET BIDDEFORD, MAINE 207-283-0193		



IF NECESSARY, INSTALL TRAPS IN VERTICAL SECTION OF DRAIN LINE, SIZED FOR MAXIMUM WATER VOLUME.  
ENGINEER IS RESPONSIBLE FOR DRAIN LINE DESIGN BEYOND THE HOOD. DRAIN LINE MUST BE INSTALLED PER LOCAL CODES. DRAIN LINE MUST BE SLOPED (MINIMUM 1/8 INCH PER FOOT). AVOID ANY UNNECESSARY 90 DEGREE TURNS. IF COMBINED WITH OTHER DRAIN LINES, THEN PIPE SIZE SHOULD BE INCREASED ACCORDINGLY. P-TRAPS SHOULD NOT BE USED IN THE GREASE DRAIN LINE.



**CONTROL PANEL WALL ELEVATION**  
SCALE: 1/2"=1'-0"

**HOT WATER REQUIREMENTS FOR SELF CLEANING SYSTEM:**

To ensure proper operation of the Self Cleaning System, a minimum of 30 PSI water operating pressure during spraying must be achieved at the hood nozzles. For this to occur, proper sizing of the water line is required. Maximum panel operating pressure is 50 psi.

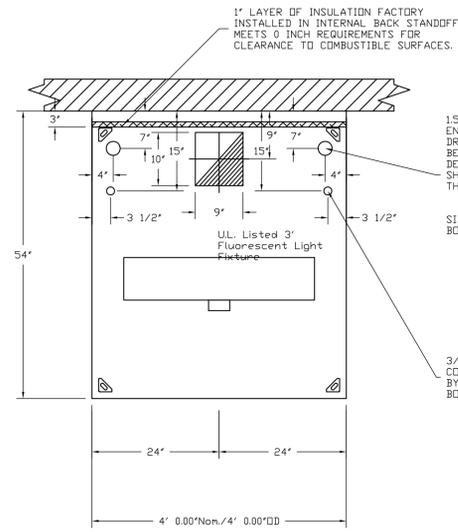
CONSULT THE MANUAL to calculate the piping minimum size.

(Gallons per minute is calculated by multiplying the length of the hood (in feet) by 0.7 gpm)

ARMORY RENOVATIONS SANFORD, MAINE	FOOD SERVICE - EXHAUST HOOD DETAILS
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PLAN PROGRESS	
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<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
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SHEET ID: Q-107
SHEET: 99 of 181



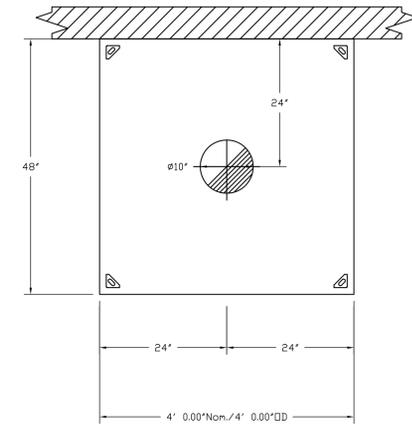
PLAN VIEW - Hood #1 (#21)  
4' 0.00" LONG 5418SND-2

1.5" I.P.S. DRAIN DROP  
ENGINEER IS RESPONSIBLE FOR DRAIN LINE DESIGN BEYOND THE HOOD. DRAIN LINE MUST BE INSTALLED PER LOCAL CODES. DRAIN LINE MUST BE SLOPED (MINIMUM 1/8" INCH PER FOOT). AVOID ANY UNNECESSARY 90 DEGREE TURNS. IF COMBINED WITH OTHER DRAIN LINES, THEN PIPE SIZE SHOULD BE INCREASED ACCORDINGLY. P-TRAPS SHOULD NOT BE USED IN THE GREASE DRAIN LINE.

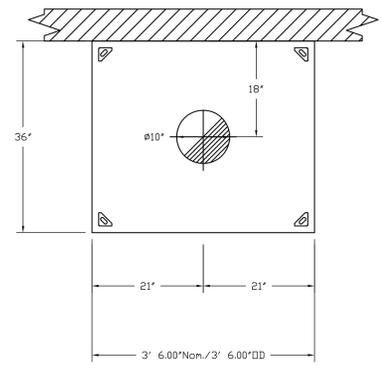
SIZE BUILDING GREASE INTERCEPTOR ACCORDINGLY.  
BOTH ENDS

U.L. Listed 3' Fluorescent Light Fixture

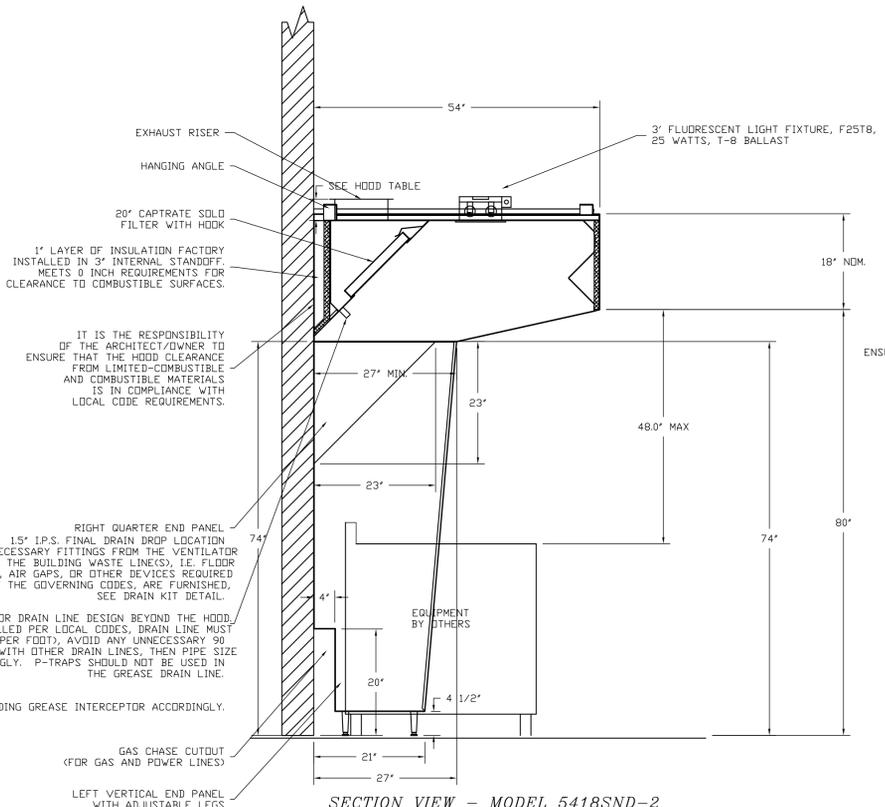
3/4" I.P.S. (N.P.T.) HOT WATER CONNECTION STUBS ARE PREFIT BY FACTORY.  
BOTH ENDS



PLAN VIEW - Hood #2 (#31)  
4' 0.00" LONG 4818VHB-G-ND

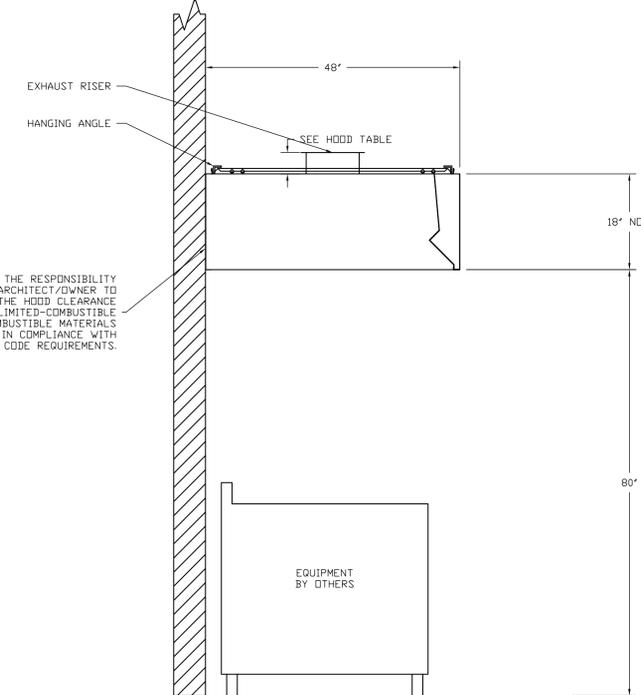


PLAN VIEW - Hood #3 (#38)  
3' 6.00" LONG 3618VHB-G-ND



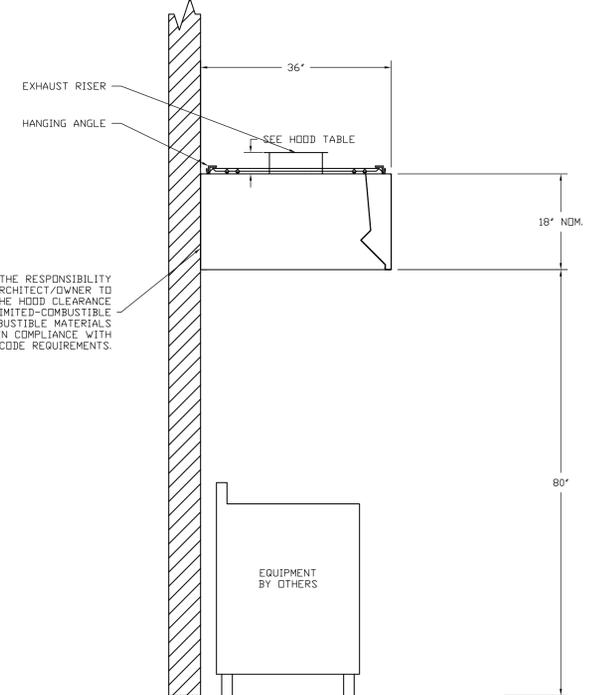
SECTION VIEW - MODEL 5418SND-2  
HOOD - #1 (#21)

IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.



SECTION VIEW - MODEL 4818VHB-G-ND  
HOOD - #2 (#31)

IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.



SECTION VIEW - MODEL 3618VHB-G-ND  
HOOD - #3 (#38)

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E	ADDENDUM NO. 2	09/12/16	
D	ISSUED FOR BIDDING	08/19/16	
C	ISSUED FOR 95% REVIEW	06/15/16	
B	ISSUED FOR 65% REVIEW	04/19/16	
A	ISSUED FOR 35% REVIEW	02/22/16	

DESIGNED BY: TBC  
DRAWN BY: TJM  
CHECKED BY: TCB  
DATE: 08/18/2016  
SCALE: AS NOTED  
DFE PROJECT NO: 23SR15-424-D

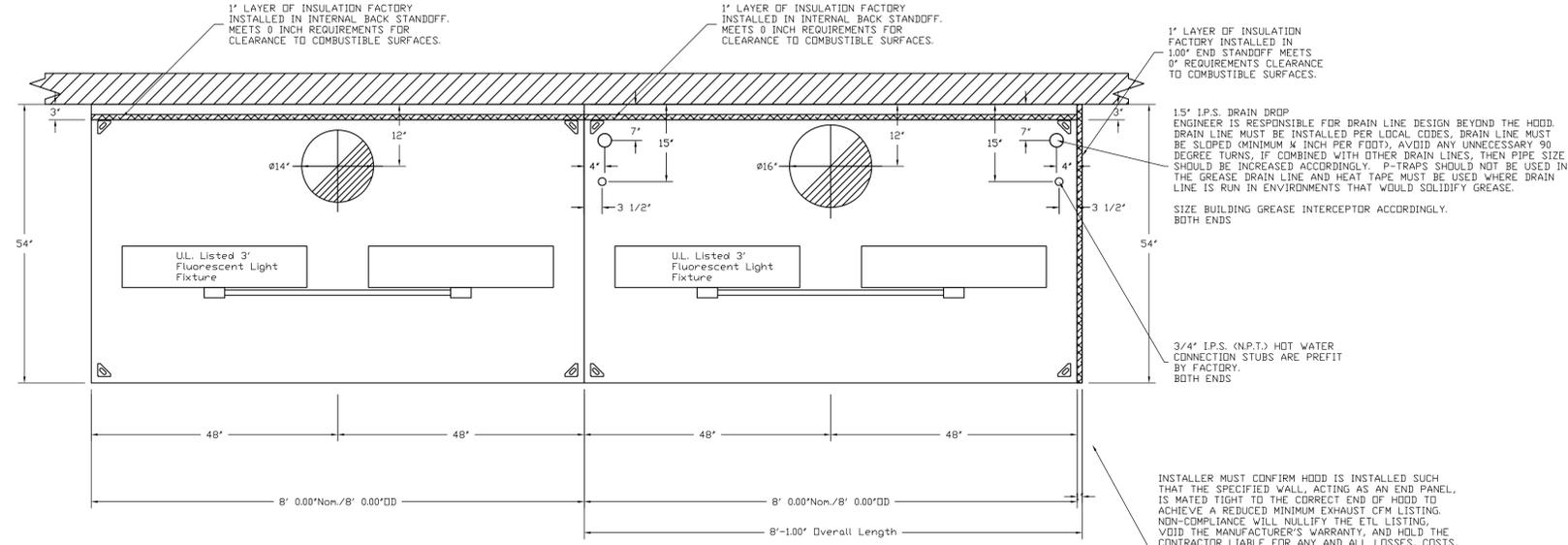
STATE OF MAINE  
DEPARTMENT OF DEFENSE, VETERANS  
AND EMERGENCY MANAGEMENT  
OAK POINT ASSOCIATES  
ARCHITECTURE, ENGINEERING, & PLANNING  
231 MAIN STREET  
BIDDEFORD, MAINE  
207-283-0193

ARMORY RENOVATIONS  
SANFORD, MAINE

FOOD SERVICE -  
EXHAUST HOOD DETAILS 2

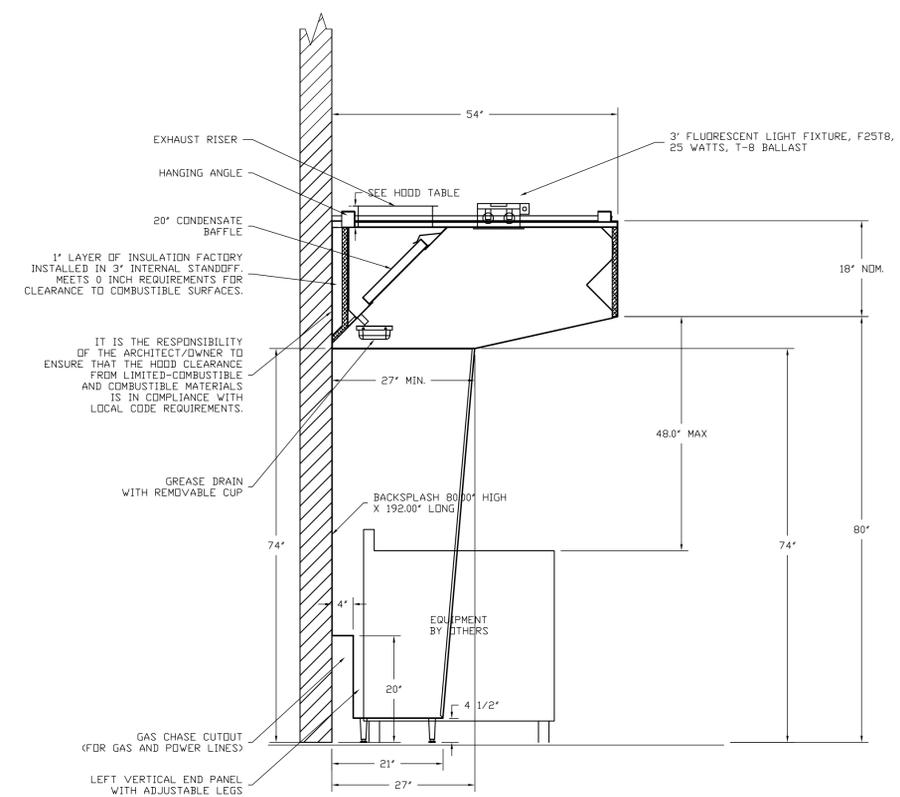
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SHEET ID:  
Q-108  
SHEET: 100 of 181

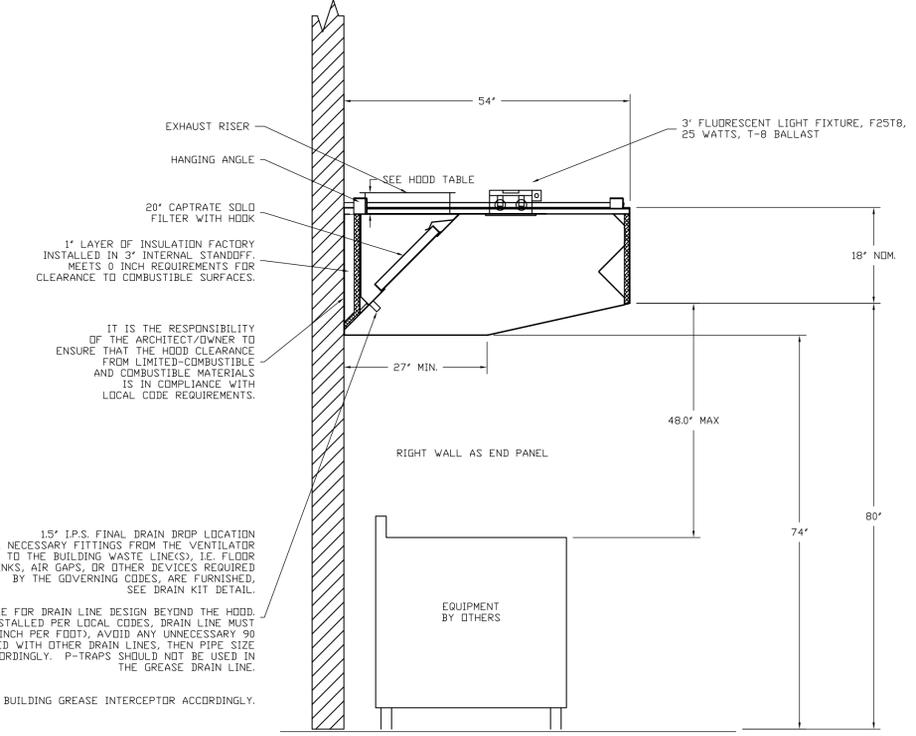


PLAN VIEW - Hood #5 (#51)  
8' 0.00" LONG 54" HIGH

PLAN VIEW - Hood #4 (#50)  
8' 0.00" LONG 54" HIGH



SECTION VIEW - MODEL 5418SND-2  
HOOD - #5 (#51)



SECTION VIEW - MODEL 5418SND-2  
HOOD - #4 (#50)

NOTE:  
THE FOLLOWING LARGE ITEMS WILL NEED TO BE WALL MOUNTED IN THE FIELD FOR HOODS #21, #50, #51:

- ANSUL FIRE SUPPRESSION AUTOMAN - SIZE TO BE APPROXIMATELY 27" WIDE X 24" TALL X 8" DEEP
- (2) HOOD SELF CLEANING CONTROL PANELS WITH FAN AND WASH CONTROL BUTTONS - SIZE TO BE APPROXIMATELY 30" WIDE X 30" TALL X 7" DEEP
- BACK FLOW PREVENTER - 30" WIDE X 12" TALL X 7" DEEP

PLAN REVISIONS

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B	ISSUED FOR 65% REVIEW	04/19/16	
A	ISSUED FOR 35% REVIEW	02/22/16	

DESIGNED BY: TBC  
DRAWN BY: TJM  
CHECKED BY: TCB  
DATE: 08/18/2016  
SCALE: AS NOTED  
DFE PROJECT NO: 23SR15-424-D

STATE OF MAINE  
DEPARTMENT OF DEFENSE, VETERANS  
AND EMERGENCY MANAGEMENT  
OAK POINT ASSOCIATES  
ARCHITECTURE, ENGINEERING, & PLANNING  
231 MAIN STREET  
BIDDEFORD, MAINE  
207-283-0193

ARMORY RENOVATIONS  
SANFORD, MAINE

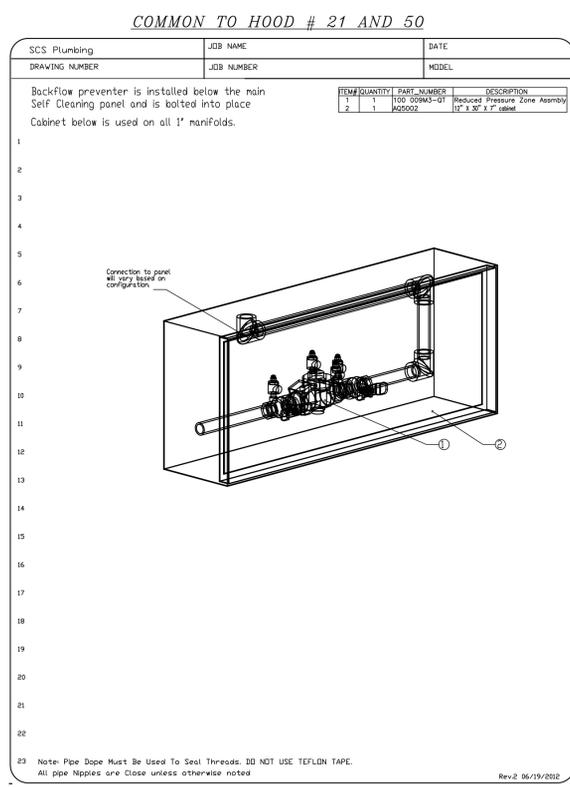
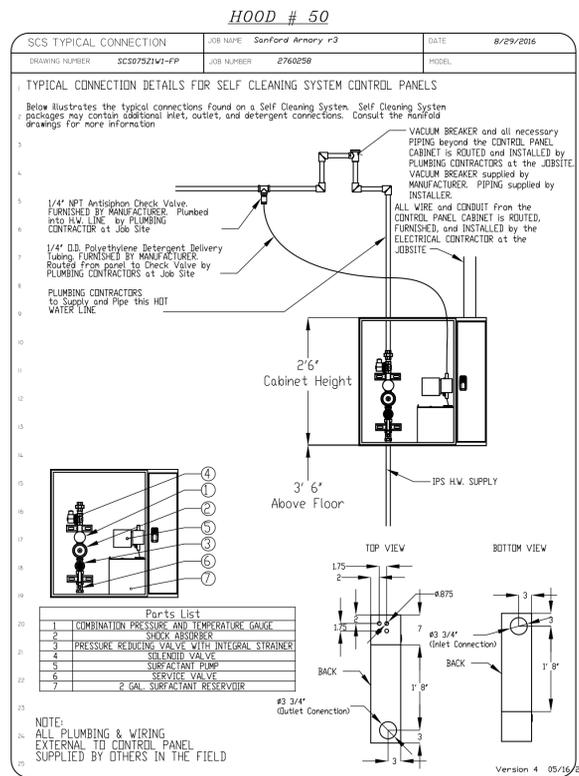
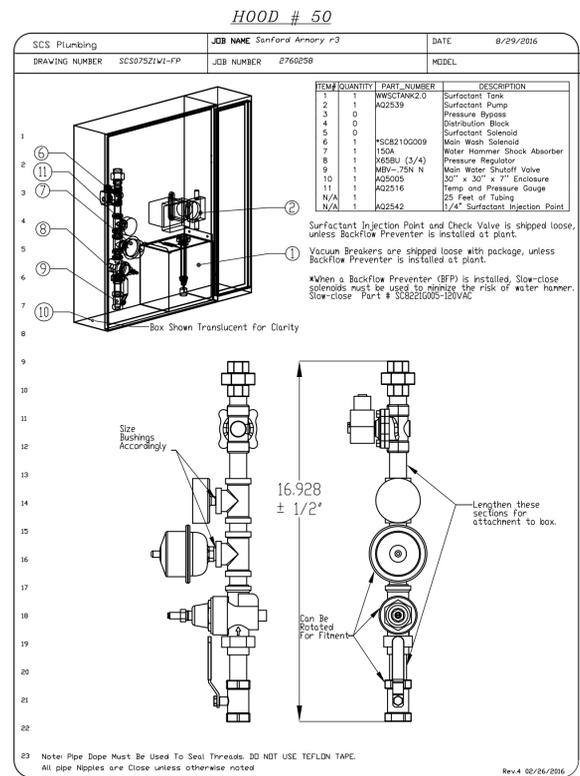
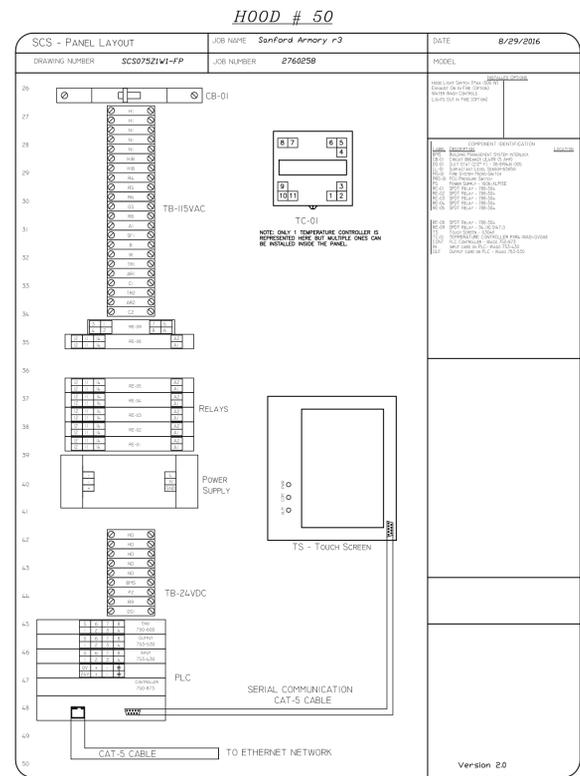
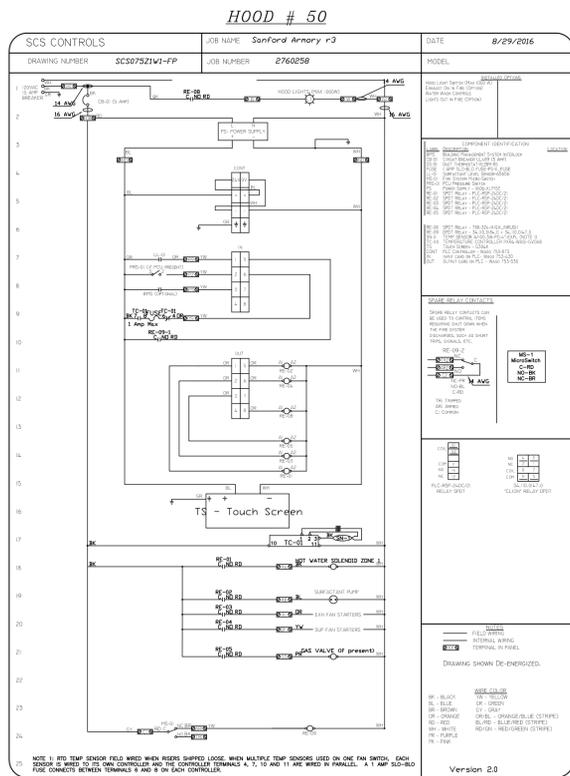
FOOD SERVICE -  
EXHAUST HOOD DETAILS 3

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SHEET ID:  
Q-109  
SHEET: 101of181





#### System Design Verification (SDV)

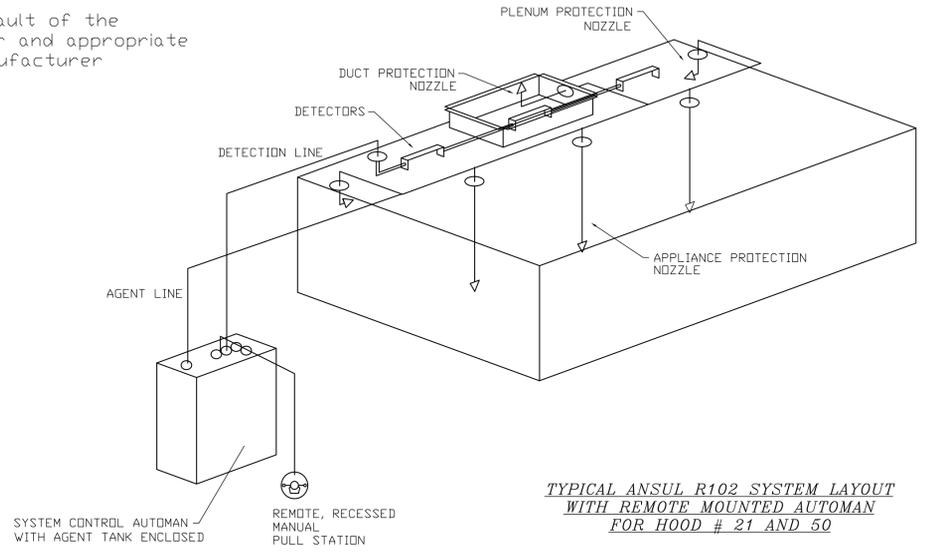
CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

#### SPECIFICATIONS

- THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)
- THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.
- THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.
- THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.



NOTE: ONE WALL MOUNTED, FIELD INSTALLED FIRE SUPPRESSION SYSTEM TO BE PROVIDED TO PROTECT HOODS #21 & #50. SOME COMPONENTS IN THE HOODS WILL BE EXPOSED

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B	ISSUED FOR 65% REVIEW	04/19/16	
A	ISSUED FOR 35% REVIEW	02/22/16	

DESIGNED BY: TBC  
 DRAWN BY: TJM  
 CHECKED BY: TCB  
 DATE: 08/18/2016  
 SCALE: AS NOTED  
 DFE PROJECT NO: 23SR15-424-D

**STATE OF MAINE**  
 DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT  
 OAK POINT ASSOCIATES  
 ARCHITECTURE, ENGINEERING, & PLANNING  
 231 MAIN STREET  
 BIDDING, MAINE  
 207-283-0193

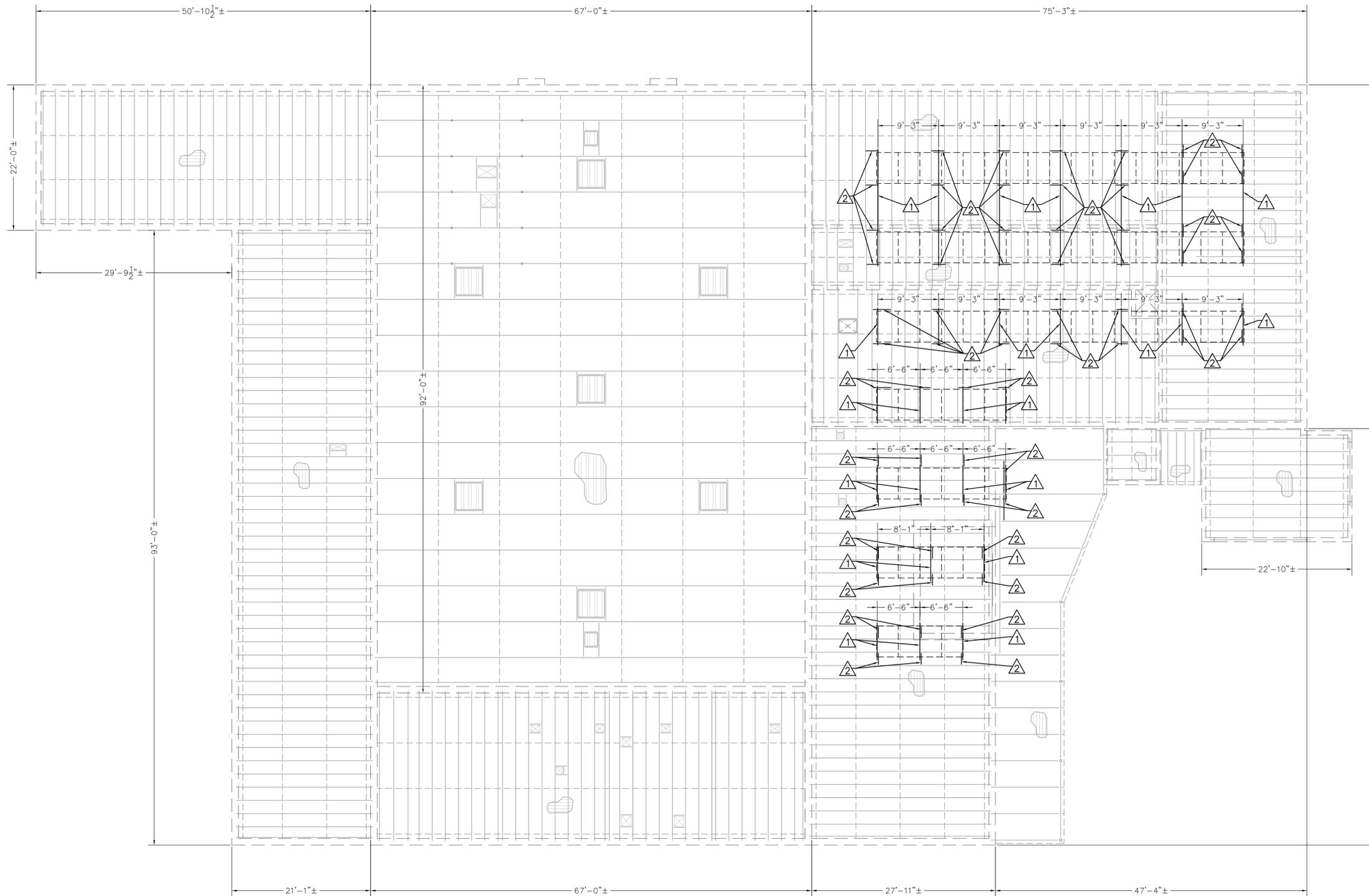
ARMORY RENOVATIONS  
 SANFORD, MAINE

FOOD SERVICE -  
 EXHAUST HOOD DETAILS 5

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<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:  
 Q-111  
 SHEET: 103of181

14 Sep, 2016 - 7:47am  
 C:\file\21501.06-SF901.dwg



- GENERAL SHEET NOTES:
- COORDINATE OPENINGS THROUGH ROOF WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS.
  - REFER TO SHEET SF101 FOR EXISTING CONDITIONS AND BASE BID WORK.
  - COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS FOR EXACT LOCATION OF PHOTOVOLTAIC PANELS.
  - PROVIDE  $\angle 6 \times 4 \times 3/8$  HEADER BETWEEN JOISTS WHERE PV SUPPORTS ARE NOT DIRECTLY OVER JOISTS.
  - IF  $\angle 6 \times 4 \times 3/8$  HEADER IS IN SAME LOCATION AS BRIDGING, SHIFT HEADER TO MISS BRIDGING.

- ALTERNATE 1 KEYNOTES: (THIS SHEET ONLY)
- 1** BALLASTED PV SUPPORT FRAME.
  - 2**  $\angle 6 \times 4 \times 3/8$  HEADER BETWEEN JOISTS. WELD TO JOIST WITH 1/4" FILLET WELD ALL AROUND.



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B	ISSUED FOR 65% REVIEW		04/18/16	
A	ISSUED FOR 35% REVIEW		02/22/16	

DESIGNED BY: DNM  
 DRAWN BY: MJC  
 CHECKED BY: DNM  
 DATE: 08/19/2016  
 SCALE: AS NOTED  
 DFE PROJECT NO.: 23SR15-424-D

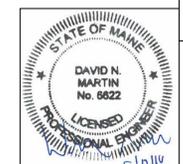
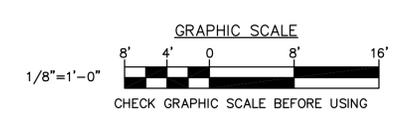
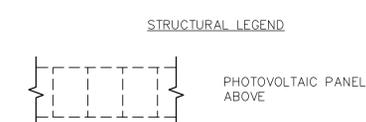
**STATE OF MAINE**  
 DEPARTMENT OF DEFENSE, VETERANS  
 AND EMERGENCY MANAGEMENT

OAK POINT ASSOCIATES  
 ARCHITECTURE, ENGINEERING, & PLANNING  
 231 MAIN STREET  
 BOSTON, MA 02114  
 617-263-0193

ARMORY RENOVATIONS  
 SANFORD, MAINE

ALTERNATE 1 - ROOF FRAMING PLAN

**1** ALTERNATE 1 - ROOF FRAMING PLAN  
 SF901 SCALE: 1/8"=1'-0"



PLAN PROGRESS

- DRAFT
- 35% REVIEW
- 65% REVIEW
- 95% REVIEW
- FINAL REVIEW
- FOR BIDDING
- ISSUED FOR CONSTRUCTION
- RECORD DRAWINGS

SHEET ID:  
 SF901  
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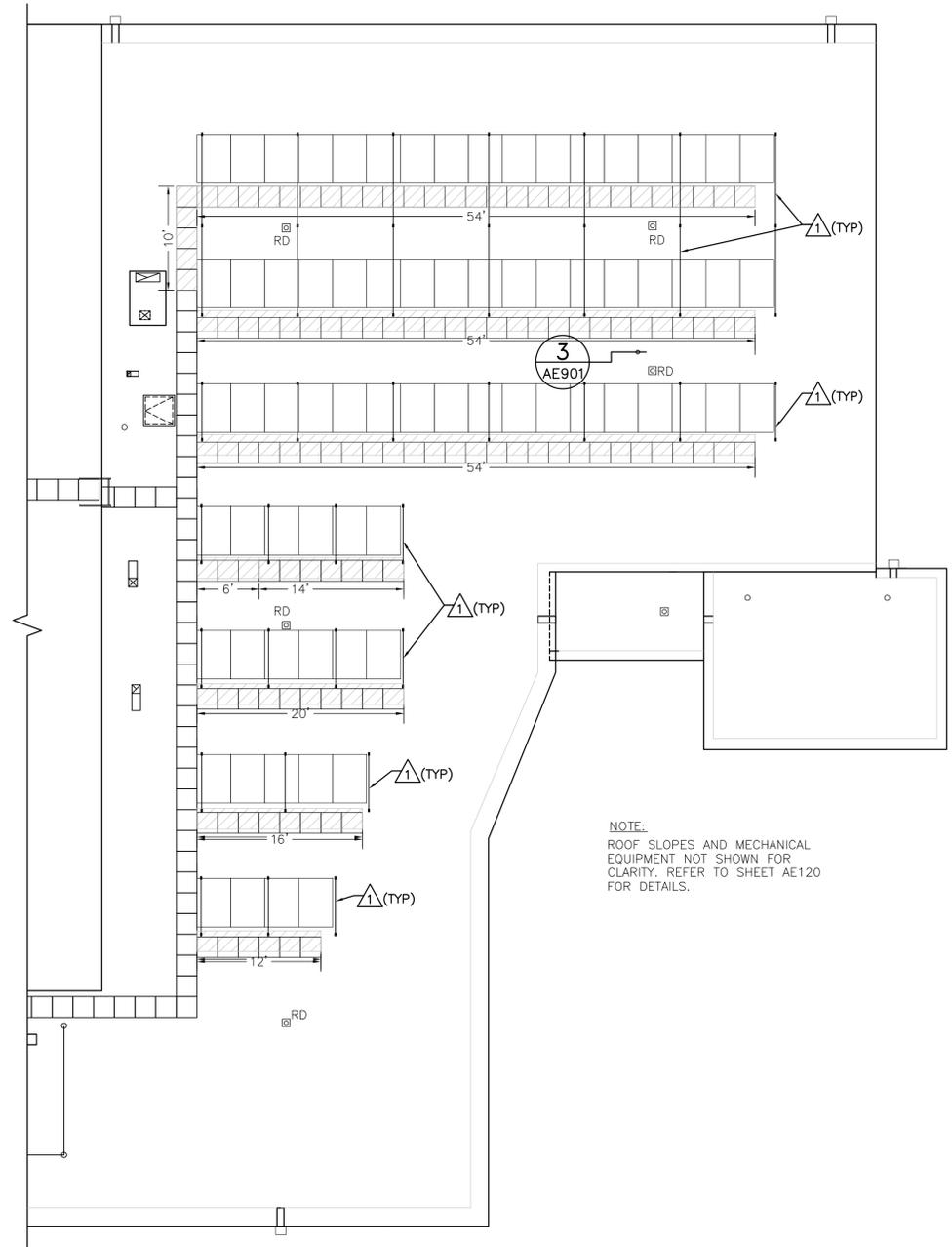


KEYNOTE: (THIS SHEET ONLY)

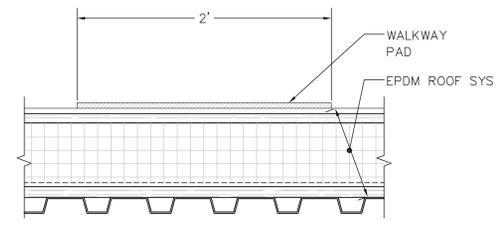
△ PRE-MADE BALLASTED PHOTOVOLTAIC FRAMING SYSTEM. BASIS OF DESIGN: SUNLINK PRECISION RMS OR APPROVED EQUAL. COORDINATE WITH STRUCTURAL REINFORCING ON SF901.

LEGEND

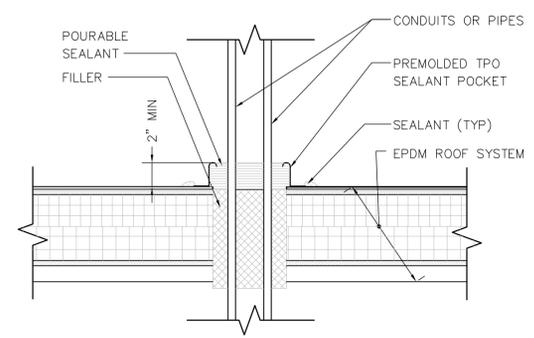
- ⊠ ROOF DRAIN
- ▭ BASE BID WALKWAY PADS
- ▨ WALKWAY PADS, ALTERNATE NO 1, REFER TO DETAIL 2/AE901
- ▭ PHOTOVOLTAIC PANELS, ALTERNATES 1 AND 2 REFER TO ELECTRICAL SHEETS PV901 AND PV902 FOR PANEL LAYOUT FOR EACH ALTERNATE.



NOTE:  
ROOF SLOPES AND MECHANICAL EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO SHEET AE120 FOR DETAILS.



2 TYP WALKWAY PAD DETAIL  
AE901 SCALE: 1-1/2"=1'-0"



3 PITCH POCKET DETAIL  
AE901 SCALE: 1-1/2"=1'-0"

NOTE: COORDINATE WITH SHEETS PV901 AND PV902 FOR PITCH POCKET LOCATION.

1 PARTIAL ROOF PLAN  
AE901 SCALE: 1/8"=1'-0"

PLAN REVISIONS			
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B	ISSUED FOR 65% REVIEW	04/19/16	
A	ISSUED FOR 35% REVIEW	02/22/16	

DESIGNED BY: TBC  
 DRAWN BY: MDF  
 CHECKED BY: TGB  
 DATE: 08/18/2016  
 SCALE: AS NOTED  
 DFE PROJECT NO: 23SR15-424-D

STATE OF MAINE  
 DEPARTMENT OF DEFENSE, VETERANS  
 AND EMERGENCY MANAGEMENT

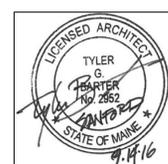
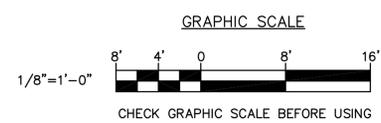
OAK POINT ASSOCIATES  
 ARCHITECTURE, ENGINEERING, & PLANNING  
 231 MAIN STREET  
 BIDDEFORD, MAINE  
 207-283-0193

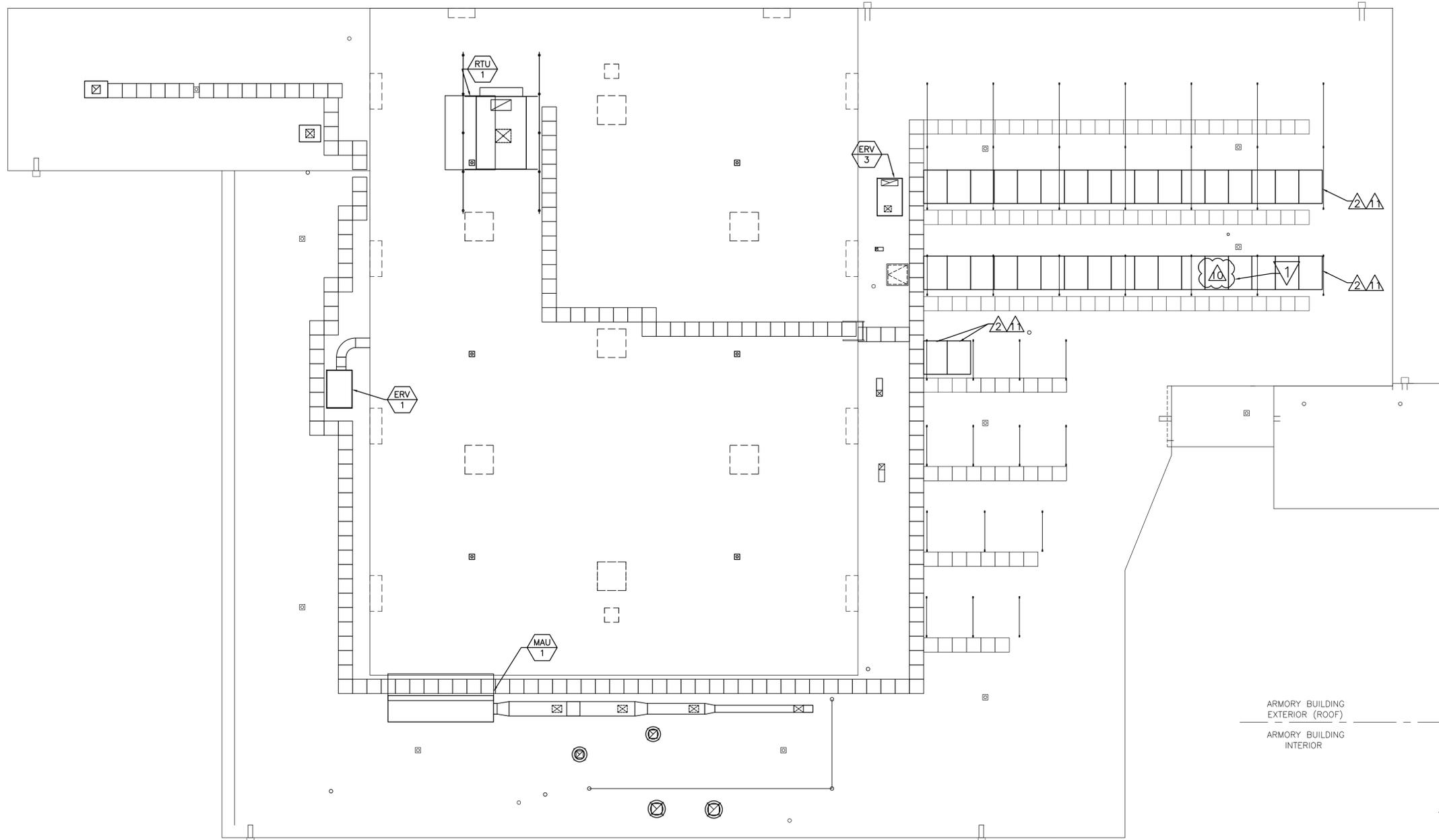
ARMORY RENOVATIONS  
 SANFORD, MAINE

ALTERNATE 1 -  
 PHOTOVOLTAIC PARTIAL ROOF PLAN

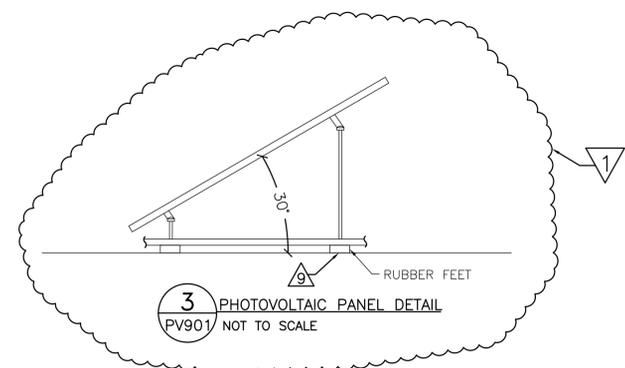
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<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
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SHEET ID:  
 AE901  
 SHEET: 177 of 181

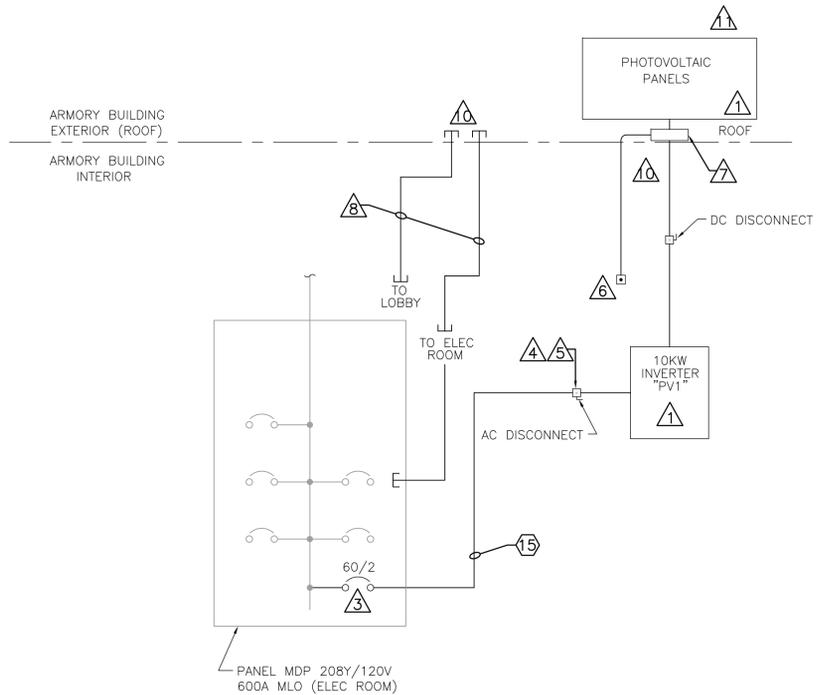




**1** ELECTRICAL ROOF PLAN  
PV901 SCALE: 1/8"=1'-0"



**3** PHOTOVOLTAIC PANEL DETAIL  
PV901 NOT TO SCALE



**2** ALTERNATE #1. ONE-LINE DIAGRAM  
PV901 NOT TO SCALE

**GENERAL SHEET NOTES**

- REFER TO DRAWING SF902 FOR SUPPORT FRAMES.
- REFER TO DRAWING AE120 FOR ROOF DRAINS.
- REFER TO DRAWING E-501 FOR WIRE AND CONDUIT SCHEDULE.

**DRAWING KEYNOTES (THIS SHEET ONLY)**

- ALTERNATE 1: PROVIDE EQUIPMENT, CONDUIT, BOXES, AND CONDUCTORS FOR A COMPLETE 10KW SYSTEM. INVERTER LOCATED IN ELECTRICAL ROOM 002.
- PHOTOVOLTAIC PANELS AND SUPPORTS.
- PROVIDE CIRCUIT BREAKER IN SPACES OF PANELBOARD MDP. CIRCUIT BREAKER SHALL BE SUITABLE FOR BACKFEED. LOCATE CIRCUIT BREAKER AT OPPOSITE END FROM THE MAIN CIRCUIT BREAKER. PROVIDE PERMANENT WARNING SIGN IN PANELBOARD MDP AT THE CIRCUIT BREAKER LOCATION THAT READS: "WARNING, INVERTER OUTPUT CONNECTION, DO NOT RELOCATE THIS OVERCURRENT DEVICE".
- UTILITY MUST INSPECT AND APPROVE THE COMPLETED PV INSTALLATION BEFORE CONNECTIONS ARE MADE TO ELECTRICAL UTILITY GRID. LOCATE IN ELECTRICAL ROOM.
- PROVIDE EXTERIOR MOUNTED LOCKABLE AC DISCONNECT AND SIGNAGE PER UTILITY COMPANY STANDARDS. LOCATE PER UTILITY COMPANY STANDARDS.
- PROVIDE RAPID SHUTDOWN SYSTEM. LOCATE RAPID SHUT DOWN MANUAL CONTROLLER IN LOBBY. PROVIDE LABELLING PER 690.56(B).
- LOCATE RAPID SHUT DOWN BOX CONCEALED UNDER PV PANELS.
- UNDER ALTERNATE 1, PROVIDE RACEWAYS AND ROOF/WALL PENETRATIONS FOR ALTERNATE 2 EQUIPMENT. REFER TO SHEET PV902 FOR ALTERNATE 2 EQUIPMENT.
- SEE DETAIL 3 SHEET SF902 FOR STRUCTURAL MOUNTING DETAILS.
- REFER TO DETAIL 3/AE901 FOR ROOF PENETRATIONS.
- PROVIDE LIGHTNING PROTECTION FOR PHOTOVOLTAIC SYSTEM. COMPLY WITH NFPA 780 AND UL. CONNECT LPS TO SYSTEM SHOWN ON EP103.



Rev#	Description	Date	Appr.
E	ADDENDUM NO. 2	09/14/16	
D	ISSUED FOR BIDDING	08/18/16	
C	ISSUED FOR 95% REVIEW	06/15/16	
B	ISSUED FOR 65% REVIEW	04/19/16	
A	ISSUED FOR 35% REVIEW	02/22/16	

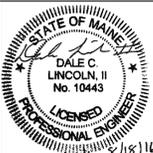
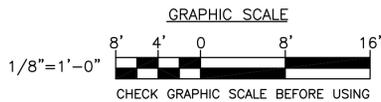
DESIGNED BY: DCL	DATE: 08/18/2016
DRAWN BY: BPD	SCALE: AS NOTED
CHECKED BY: DCL	DFE PROJECT NO: 23SR15-424-D

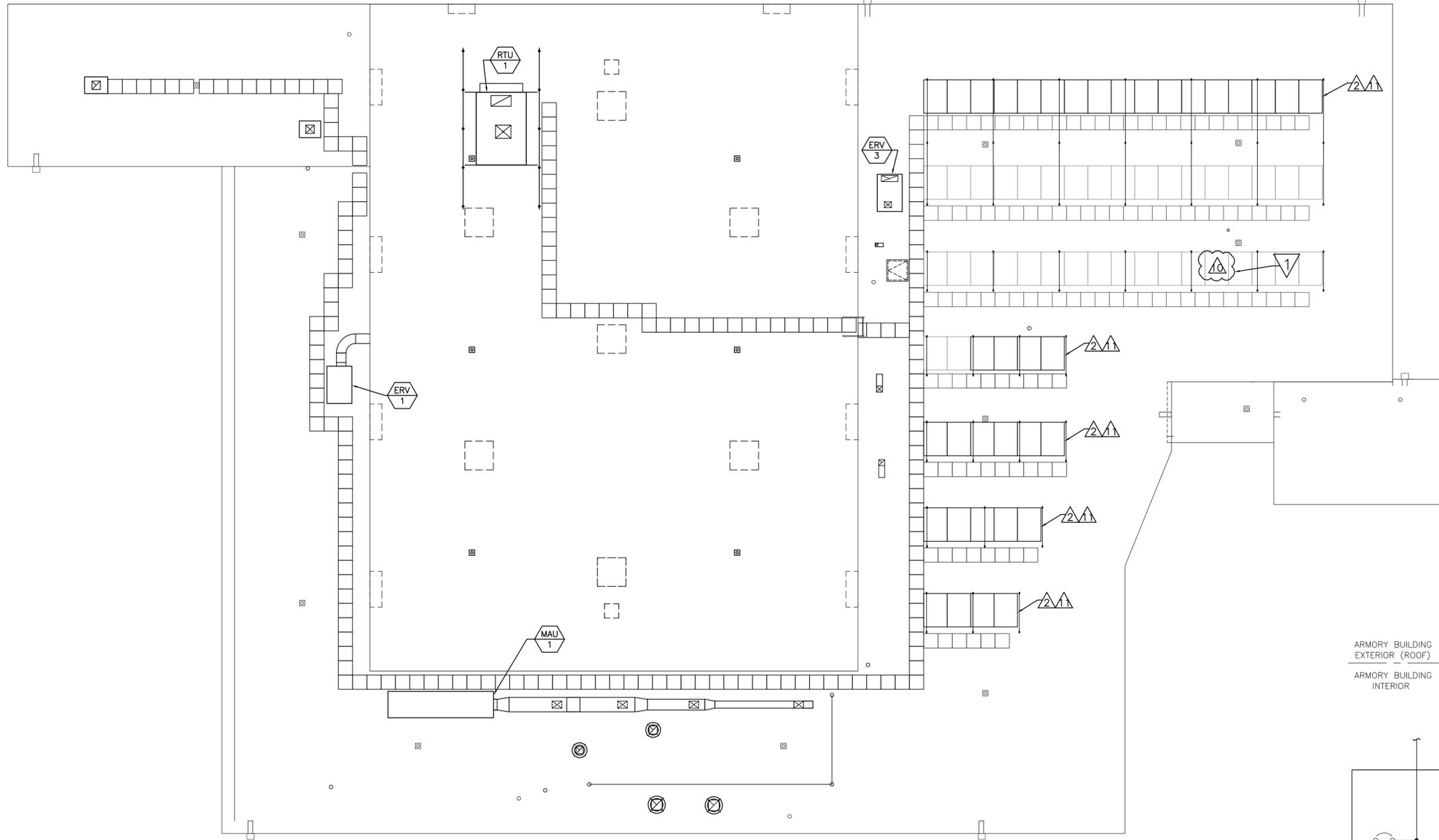
**STATE OF MAINE**  
DEPARTMENT OF DEFENSE, VETERANS  
AND EMERGENCY MANAGEMENT  
OAK POINT ASSOCIATES  
ARCHITECTURE, ENGINEERING, & PLANNING  
231 MAIN STREET  
BIDDEFORD, MAINE  
207-283-0193

ARMORY RENOVATIONS  
SANFORD, MAINE  
ALTERNATE 1 PHOTOVOLTAIC SYSTEM  
PLAN AND ONE-LINE DIAGRAM

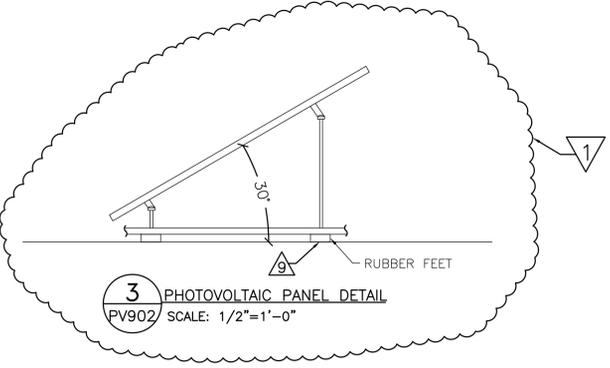
PLAN PROGRESS	
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<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:  
PV901  
SHEET: 180 of 181

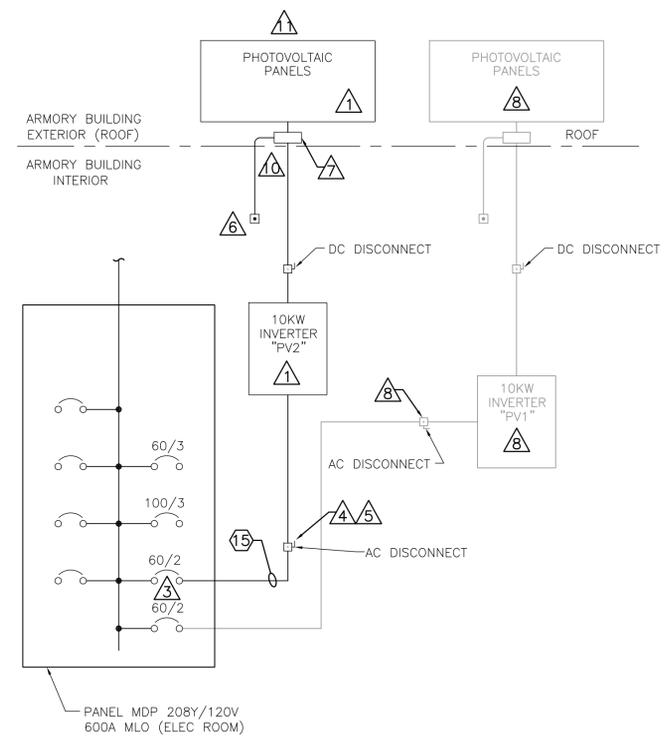




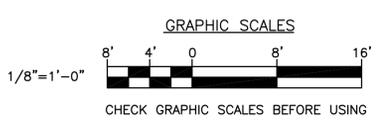
**1** ELECTRICAL ROOF PLAN  
PV902 SCALE: 1/8"=1'-0"



**3** PHOTOVOLTAIC PANEL DETAIL  
PV902 SCALE: 1/2"=1'-0"



**2** ALTERNATE #2, ONE-LINE DIAGRAM  
PV902 NOT TO SCALE



**GENERAL SHEET NOTES**

- REFER TO DRAWING SF902 FOR SUPPORT FRAMES.
- REFER TO DRAWING AE120 FOR ROOF DRAINS.
- REFER TO DRAWING E-501 FOR WIRE AND CONDUIT SCHEDULE.

**DRAWING KEYNOTES (THIS SHEET ONLY)**

- 1** ALTERNATE 2: PROVIDE EQUIPMENT, CONDUIT, BOXES, AND CONDUCTORS FOR A COMPLETE 10 KW (2 X 10 KW) SYSTEM. INVERTER LOCATED IN ELECTRICAL ROOM 002.
- 2** PHOTOVOLTAIC PANELS AND SUPPORTS.
- 3** PROVIDE CIRCUIT BREAKER IN SPACES OF PANELBOARD MDP. CIRCUIT BREAKER SHALL BE SUITABLE FOR BACKFEED. LOCATE CIRCUIT BREAKER AT OPPOSITE END FROM THE MAIN CIRCUIT BREAKER. PROVIDE PERMANENT WARNING SIGN IN PANELBOARD MDP AT THE CIRCUIT BREAKER LOCATION THAT READS: "WARNING, INVERTER OUTPUT CONNECTION, DO NOT RELOCATE THIS OVERCURRENT DEVICE".
- 4** UTILITY MUST INSPECT AND APPROVE THE COMPLETED PV INSTALLATION BEFORE CONNECTIONS ARE MADE TO ELECTRICAL UTILITY GRID. LOCATE IN ELECTRICAL ROOM.
- 5** PROVIDE EXTERIOR MOUNTED LOCKABLE AC DISCONNECT AND SIGNAGE PER UTILITY COMPANY STANDARDS. LOCATE PER UTILITY COMPANY STANDARDS.
- 6** PROVIDE RAPID SHUTDOWN SYSTEM. LOCATE RAPID SHUTDOWN MANUAL CONTROLLER IN LOBBY. PROVIDE LABELING PER NEC 690.56(B).
- 7** LOCATE RAPID SHUTDOWN BOX CONCEALED UNDER PV PANELS.
- 8** PROVIDE UNDER ALTERNATE 1.
- 9** SEE DETAIL 3 SHEET SF902 FOR STRUCTURAL MOUNTING DETAILS.
- 10** REFER TO DETAIL 3/AE901 FOR ROOF PENETRATIONS.
- 11** PROVIDE LIGHTNING PROTECTION FOR PHOTOVOLTAIC SYSTEM. COMPLY WITH NFPA 780 AND UL. CONNECT LPS TO SYSTEM SHOWN ON EP103.



PLAN REVISIONS	Date	Appr.
E. ADDENDUM NO. 2	09/14/16	
D. ISSUED FOR BIDDING	08/19/16	
C. ISSUED FOR 95% REVIEW	06/15/16	
B. ISSUED FOR 65% REVIEW	04/19/16	
A. ISSUED FOR 35% REVIEW	02/22/16	

DESIGNED BY: DCL  
 DRAWN BY: BPD  
 CHECKED BY: DCL  
 DATE: 08/18/2016  
 SCALE: AS NOTED  
 DFE PROJECT NO: 23SR15-424-D

**STATE OF MAINE**  
 DEPARTMENT OF DEFENSE, VETERANS  
 AND EMERGENCY MANAGEMENT

OAK POINT ASSOCIATES  
 ARCHITECTURE, ENGINEERING, & PLANNING  
 231 MAIN STREET  
 BIDEFORD, MAINE  
 207-283-0193

ARMORY RENOVATIONS  
 SANFORD, MAINE

ALTERNATE 2 PHOTOVOLTAIC SYSTEM  
 PLAN AND ONE-LINE DIAGRAM

**PLAN PROGRESS**

<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:  
 PV902  
 SHEET: 181 of 181

