MAINE TURNPIKE AUTHORITY

ADDENDUM NO. 3

CONTRACT 2025.11

AUBURN VEHICLE STORAGE GARAGE

MILE 76.9

The bid opening date is changed to June 17, 2025 at 11:00 A.M.

A pre-bid conference was held on May 13, 2025 at 10:00 A.M. at Maine Turnpike Authority.

A site walk-thru was held on Wednesday May 14, 2025 at 2:00 P.M. at Maine Turnpike's Auburn Maintenance Facility.

The following changes are made to the Proposal, Specifications and Plans. Refer to the Questions section for additional information.

GENERAL

All questions regarding Contract 2025.11 should be submitted by Noon on June 11, 2025 to be answered by Addendum on or before June 13, 2025. Questions received after that time may not be answered.

PROPOSAL

Intentionally left blank.

SPECIFICATIONS

1. Special Provision 104.4.6 Utility Coordination, page SP-10 shall be deleted and replaced with page SP-10 (Revised). Consolidated Communications' cables and Spectrum Cable's cables are to remain where they are currently attached to the Office Building and not relocated.

2. SECTION 083613 – Sectional Doors: **DELETE** Paragraph **2.3.G. in its entirety. ADD** in its place the following: Weatherseals: Replaceable, adjustable, continuous, heavy-duty compressible weather-stripping gaskets of flexible vinyl, rubber, or neoprene in metal frames, fitted to the sectional door opening jambs and head as indicated. Sectional doors shall have continuous heavy-duty sill seal with sensor edge at bottom panel.

3. Section 221119 – Plumbing Specialties: **DELETE** Paragraph 2.4 B. in its entirety. **ADD** in its place the following:

   "B. Master Mixing Valve (**TMV-1**)

   1. Basis-of-Design Product: Subject to compliance with requirements, provide Zurn Industries, Model ZW1070XL (Lead-Free).

2. Standard: ASSE 1070 or 1016, thermostatically controlled, water tempering valve.
3. Pressure Rating: 125 psig (860 kPa) minimum unless otherwise indicated.
4. Body: Bronze body with corrosion-resistant interior components.
5. Temperature Control: Adjustable 95-115 deg F
6. Inlets and Outlet: ¾" Threaded.
7. Finish: Rough or chrome-plated bronze.
8. Tempered-Water Setting: 110 deg F max
9. Tempered-Water Design Flow Rate: .35 GPM min"

4. Section 221119 – Plumbing Specialties: **DELETE** Paragraph 2.11 in its entirety.

5. Section 221119 – Plumbing Specialties: **DELETE** Paragraph 2.12 A. in its entirety. **ADD** in its place the following:

"A. **TD-1**: Trench Drain: Zurn Z874-12; Channels shall be 80" [2032mm] long, 17" [432mm] wide reveal and have a 12" [305mm] wide throat. Modular channel sections shall be made of 0% water absorbent High Density Polyethylene (HDPE). Shall have a positive mechanical connection between channel sections that will not separate during the installation and shall mechanically lock into the concrete surround every 10" [254mm]. Channels shall weigh less than 6.6 lbs. per linear foot [9.8 kg/m], have smooth 3.5" [89mm] radiused self cleaning bottom with a Manning's coefficient of .009 and 1.00% built-in slope. Channel shall have all grates locked down. Channels come with clips attached to the frame to accommodate vertical re-bar for positioning and anchoring purposes. Shall be provided with the GDC grate, Zurn 16-1/4" [413mm] wide Galvanized Slotted Grate, which locks down to the frame with 4 individual bolt anchors per grate. Grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20" [508 mm] nominal lengths with 13/16" [21mm] wide slots, and 1-3/4" [44mm] bearing depth. Grate has an open area of 118 sq. in. per ft. [249779] sq. mm per meter]. Frames shall be 1/4" [6mm] thick 316 Stainless Steel Frame Assembly (HDS) with 10 - 4" [102mm] long concrete anchors per 80" [2032mm]. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames shall be produced in the USA. Provide options:

1. –VP vandal proof lockdown
2. –E4 4" no-hub end outlet"

6. Section 230700 - Mechanical Insulation: **ADD** Paragraph 3.6 G. 4. As follows:

"4. Heat traced domestic hot water piping."

7. Section 233423 – Power and Gravity Ventilators: **DELETE** Paragraphs 2.1 A. 5. And 2.1 A. 6. in their entirety.

8. Section 233423 – Power and Gravity Ventilators: **ADD** Paragraph 2.4 as follows:

"2.4 DESTRATIFICATION FANS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. ZOO Fans
2. Approved equal
B. Housing: Durable double wall construction with UV treated flame resistant plastic. Include intake safety grille.

C. Motor:
1. Composite fan blades with patented design deliver unmatched efficiency
2. Ultra-reliable motor with active protection for thermal overload, locked/blocked rotor, and over/under voltage
3. Sealed, lifetime lubricated bearings

D. Certification: ETL Listed in USA and Canada. Conforms to UL Standard 507 and Certified to CAN/CSA Standard CSA C22.2 Sound measurements in accordance with ISO 13347.

E. Identification: Permanently affixed manufacturer's nameplate including the following: Model Number, Serial Number, Motor Power Specifications, Country of Manufacture and Safety Marks: ETL (US & CA) & CE (EU).

F. EC motor shall be controlled by 0-10VDC control signal. Uses low voltage control circuit."

9. Section 235123 – Gas Vents: **DELETE** Paragraph 2.1 G. in its entirety. **ADD** in its place the following:

"G. Termination
1. Concentric sidewall vent by heater manufacturer."

10. Section 235533 – Fuel-Fired Unit Heaters: **DELETE** Paragraph 2.2 A. in its entirety. **ADD** in its place the following:

"A. Provide 82 – 83%, high efficiency, separated combustion, power vented, gas fired unit heaters: Reznor UDXC. The unit shall be designed for use in a building with negative pressures up to .15" water column and for use in buildings where a non-explosive atmosphere exists that is dust laden and/or contains mildly corrosive fumes."

11. Section 260100 - Basic Electrical Requirements – **DELETE** section 1.4 Efficiency Maine in its entirety.

PLANS

1. Plan sheet 20 of 36 – Details, shall be deleted and replaced with Sheet 20 of 36 – Details (Revised).

2. Plan sheet 21 of 36 – Maintenance of Garage Louver Infill Details and Accessibility Details and Notes: Contractor shall make a 'pen and ink' change/addition by adding the note, "Patching of both the fire rated ceiling and roof as noted herein shall apply to both the generator stack and unit heater gas vent locations. Refer to Mechanical Plan for specific locations."

3. Plan sheet 23 of 36 – Structural – Foundation Plan: Contractor shall make a 'pen and ink' change/addition by adding the callout, "P-2/F-3" to grid line 2-D (the callout for pier and footing details is missing).

4. Plan sheet 27 of 36 – Sanitary Piping Plan shall be deleted and replaced with Sheet 27 of 36 – Sanitary Piping Plan (Revised).

5. Plan sheet 28 of 36 – Domestic Piping Plan shall be deleted and replaced with Sheet 28 of 36 – Domestic Piping Plan (Revised).

6. Plan sheet 29 of 36 – Mechanical Plan: Contractor shall make a 'pen and ink' change to the Mfr-Model for GUH-1, GUH-2, and GUH-3 in the LP Gas Fired Sealed Combustion Unit-Heater Schedule; Mfr-Model "Reznor – UDZ" shall be struck out and replaced with "Reznor – UDXC".

7. Plan Sheet 32 of 36 – Electrical Site Plan shall be deleted in its entirety and replaced with Sheet 32 of 36 – Electrical Site Plan, attached, reissued with revision

8. Plan Sheet 33 of 36 – Lighting Plan shall be deleted in its entirety and replaced with Sheet 33 of 36 – Lighting Plan, attached, reissued with revision

9. Plan Sheet 34 of 36 – Power and Systems Plan shall be deleted in its entirety and replaced with Sheet 34 of 36 – Power and Systems Plan, attached, reissued with revision

10. Plan Sheet 35 of 36 – Existing Office-Maintenance Building Plan shall be deleted in its entirety and replaced with Sheet 35 of 36 – Existing Office-Maintenance Building Plan, attached, reissued with revision

11. Plan Sheet 36 of 36 – Power Riser Diagram shall be deleted in its entirety and replaced with Sheet 36 of 36 – Power Riser Diagram, attached, reissued with revision.

QUESTIONS

The following are questions submitted to the Maine Turnpike Authority in writing. Answers to the questions are noted. Bidders shall utilize this information in preparing their bid.

Question 1: Can preliminary drawings, often referred to as "general arrangement" drawings be accepted in place of complete approval drawings from the pre-engineered metal building (PEMB) manufacturer for purposes of expediting the PEMB fabrication and delivery?

Answer: Preliminary drawings will be accepted for this purpose if the drawings allow the MTA's design team to:

1. Confirm that the loading requirements the MTA Engineer specify are represented as the basis for their design and are represented.
2. Confirm where portal frames and/or cable braced frame locations are provided and whether they match MTA design intent.
3. Confirm overall building steel frame layout, with dimensioning, matches the design intent.

A full set of approval drawings would still be required soon thereafter that provides among other items, foundation loads so the MTA Engineer can finalize anchor bolts, foundation and footing design necessary to accommodate the final PEMB design package.

Question 2: Who is responsible for decommissioning the existing propane tanks that are to be removed and reset?

Answer: The contractor is responsible for coordination with the Resident and the MTA fuel vendor to have the tanks emptied and for the complete disassembly, moving, safe storing, and removal of all utility connected to the tanks. This includes the cost of the MTA's fuel vendor emptying the tanks.

Question 3: How old are the oil-water separator and storage tank?
Answer: The system is two-years old.

Question 4: Are the oil-water separator and storage tanks full?
Answer: They will both be empty.

Question 5: Will MTA mark out all underground utilities?
Answer: The contractor shall coordinate mark-outs through the Dig Safe and www.OKTODIG.com process per the plans. MTA will mark out their owned underground utilities on-site the first time. Contractor is responsible to maintain markings.

Question 6: Is the Pre-Bid Conference mandatory? Will a list of attendees be circulated?
Answer: The Pre-Bid Conference is not mandatory. The list of Pre-Bid Conference attendees will be included in an Addendum. Addendum(s) are provided to registered plan holders.

Question 7: If contaminated soils are encountered, does MTA know what the contamination might be?
Answer: If contamination is encountered it would likely be hydrocarbons from gas and diesel refueling. MTA has not encountered contamination at recent similar projects.

Question 8: Are CADD files available for the Bid Process?
Answer: No. Contractor shall use the Bid Plans which include existing and proposed contours.

Question 9: Is Contractor responsible for providing the 8x8 Electrical building? Does the 8x8 Electrical building include internal electrical infrastructure?
Answer: Yes, the contractor shall provide a new 8x8 Electrical building as part of this Contract. The 8x8 Electrical building is intended to be a 'blank slate' that will be outfitted with the required electrical infrastructure.

Question 10: Is the 8x8 Electrical building a separate stand-alone pay item?
Answer: No, the 8x8 Electrical building is part of the Lump Sum Pay Item 800.01 Auburn Vehicle Storage Garage. See Section 800 Auburn Vehicle Storage Garage.

Question 11: Is fire detection included in this Contract? It appears fire alarm devices are missing.
Answer: Yes.

Question 12: There is 1 ½" conduit shown to the door access control but no details about the access control. Is contractor responsible for the access control?
Answer: No, wiring and control units will be by others. See Plan 34 of 36, Key Note 1.

Question 13: Can bidders access the site?
Answer: Yes, bidders should contact MTA to make an appointment. All access will be via Hackett Road. MTA will be onsite Wednesday at 2pm to show bidders the site.

Question 14: Will the contractor be able to reduce or block access, for short durations, to the buildings and refueling area?

Answer: Access to refueling and the buildings must be maintained at all times during snow removal season. In general, the contractor shall maintain access to the full maintenance yard throughout the construction period. However, the contractor will be allowed individual short-term access limitations, generally limited to one building at a time for up to a 24-hour period, or as approved by MTA. All access limitations shall be requested a minimum of 7-days prior to the need.

Question 15: Will trenches require immediate repaving or is gravel backfill acceptable?

Answer: Where existing pavement carries traffic and is removed, the pavement shall be replaced daily, or as approved by the Resident, with a temporary pavement consisting of a minimum of three inches of acceptable hot or cold bituminous mixture. Temporary pavement shall be maintained until it can be removed and replaced with permanent pavement. No additional payment will be made for temporary paving.

Question 16: How will contractors access the site during construction?

Answer: The contractor, including all subs and deliveries shall be from Hackett Road. The contractor shall request specific approval from MTA of all vehicles that may exceed local road weight limits, including during spring thaw, a minimum of 7 days prior to that vehicles arrival to determine protocol for different access.

Question 17: Will the MTA lower the required limits of Owners and Contractors Protective Liability insurance, as stated in Supplemental Specification 110.3.5, to $1 million or $2 million?

Answer: No

Question 18: The specifications call for an asphalt shingled roof. Please confirm.

Answer: Asphalt shingles are required for the Office Building roof infill. See sheet A-8.

Question 19: How will the two (2) 2 inch conduits for fiber be installed in the attic space of the Office building?

Answer: The conduit shall rise up the outside of the building from grade and enter the attic space at an elevation approximately equal to the bottom of the roof trusses. Conduit shall be fastened to the bottom chord of the roof truss in the attic space and shall terminate near the conduit that rises up from the Generator Room below as shown on the drawings. See sheet ES-100 sheet 32 of 36.

ATTACHMENTS

- (This document – Addendum #3 (seven pages))
- Specification sheets – (one page)
- Plan sheets (eight pages)

Notes: The above items shall be considered as part of the bid submittal.

The total number of pages included in this addendum is sixteen (16) pages.

All bidders are requested to acknowledge the receipt of the Addendum No. 3 by signing below and emailing this sheet to Nathaniel Carll, Purchasing Department, Maine Turnpike Authority at ncarll@maineturnpike.com. Bidders are also required to acknowledge receipt of this Addendum No. 3 on Page P-8 of the bid package.

_____
Business Name

_____
Print Name and Title

_____
Signature

_____
Date

Very truly
yours,

MAINE TURNPIKE AUTHORITY

_____
Nathaniel Carll
Purchasing Department
Maine Turnpike
Authority

new service and two additional working days to remove the existing service.

The contractor shall notify CMP thirty (30) working days prior to the utility coordination meeting with details on the change in service location. The pre-construction utility coordination effort is to relay contractor's construction schedule, determine possible covering of aerial conductors and schedule of the new service. The contractor shall notify CMP sixty (60) working days prior to the need to deenergize the existing service and energize the new service.

CONSOLIDATED COMMUNICATIONS

The contractor shall notify Consolidated ten (10) working days prior to the utility coordination meeting with details on the change in service location. The coordination effort is to relay contractor's construction schedule, determine possible covering of aerial conductors and schedule of the new service.

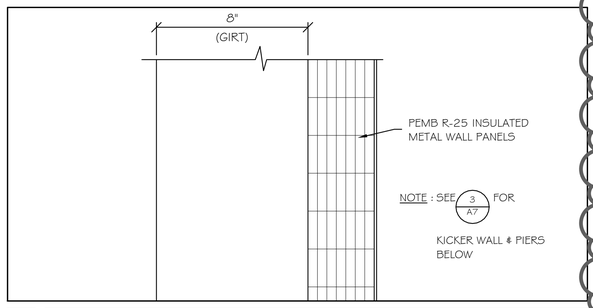
SPECTRUM CABLE

The contractor shall notify Consolidated ten (10) working days prior to the utility coordination meeting with details on the change in service location. The coordination effort is to relay contractor's construction schedule, determine possible covering of aerial conductors and schedule of the new service.

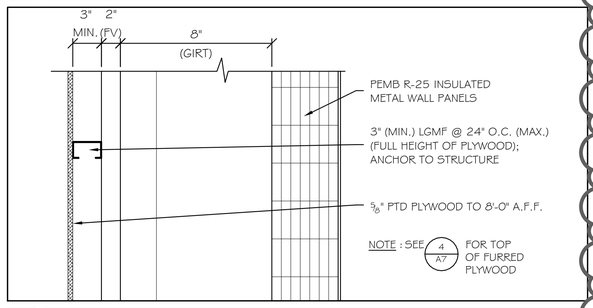
104.4.6.1 Temporary Utilities

The Contractor will be required to maintain access and all services/utilities, including backup power systems to the existing MTA facilities on site throughout construction. Existing services and utilities include, but are not necessarily limited to, permanent, temporary, and backup power, telephone, internet, water, sewer, propane, heat, and site/roadway lighting.

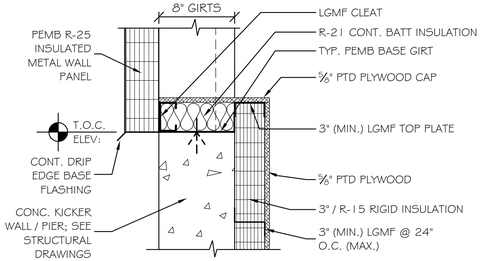
The Contractor shall be responsible for all temporary connections, service runs, relocations, disconnections, reconnections, temporary holding tanks, coordination with the MTA's propane supplier, coordination with the MTA's maintenance supervisors, etc. required to maintain these services for the duration of the project or until the permanent facilities are reconnected and properly working. This includes any required temporary services for the New Vehicle Storage Garage, the existing maintenance garage, and any other MTA Facility within the vicinity of the project. Temporary propane services and holding tanks shall be protected by jersey barriers during construction. Temporary power may be provided on wooden poles located outside the clear zone or protected. The contractor shall coordinate with the Resident and MTA on temporary service locations as to not interfere



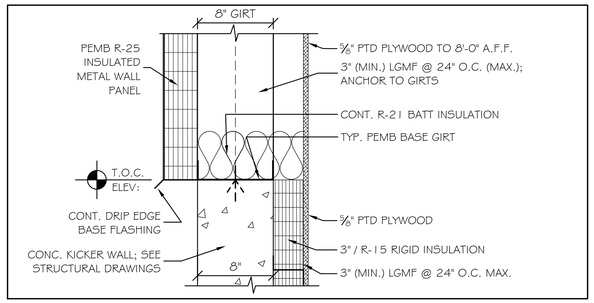
① PARTITION TYPE ◇1 — 3"= 1'-0"



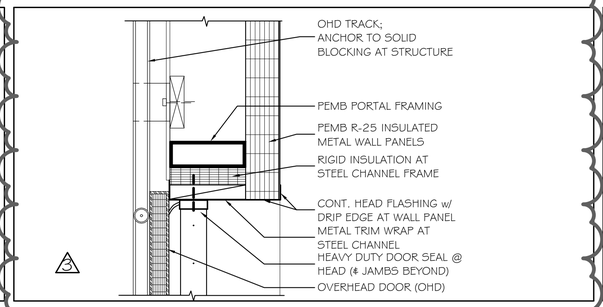
② PARTITION TYPE ◇2 — 3"= 1'-0"



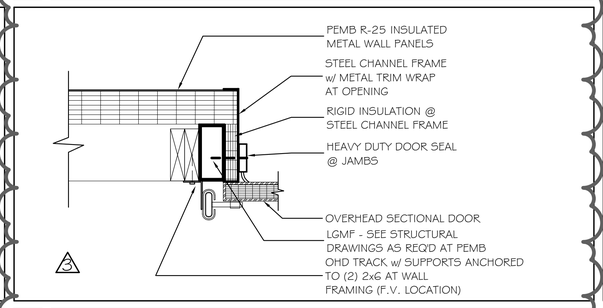
③ KICKER WALL & PIERS DETAIL AT ◇1 — 1½" = 1'-0"



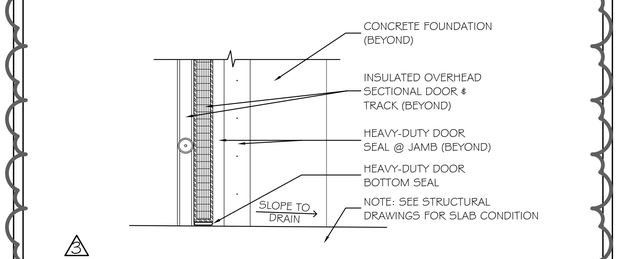
④ FURRED KICKER WALL DETAIL ◇2 — 1½" = 1'-0"



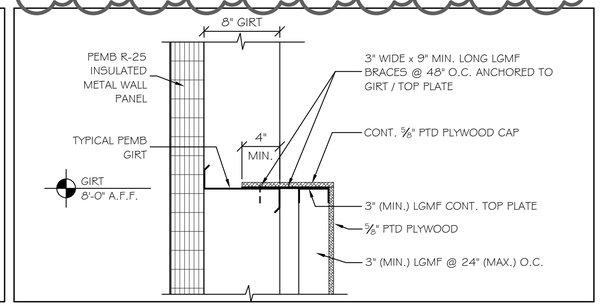
⑤ HEAD AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL — 1½" = 1'-0"



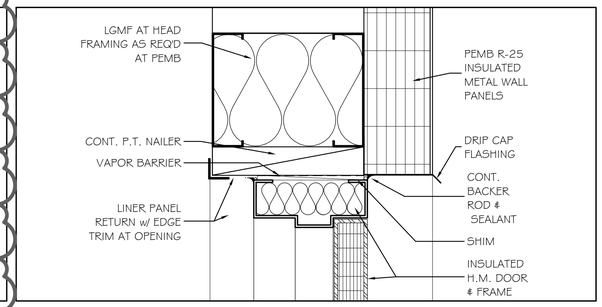
⑥ JAMB AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL — 1½" = 1'-0"



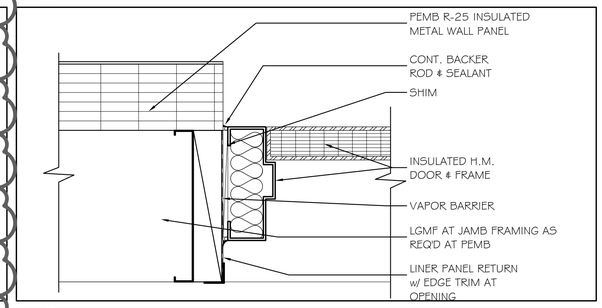
⑦ SILL AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL — 1½" = 1'-0"



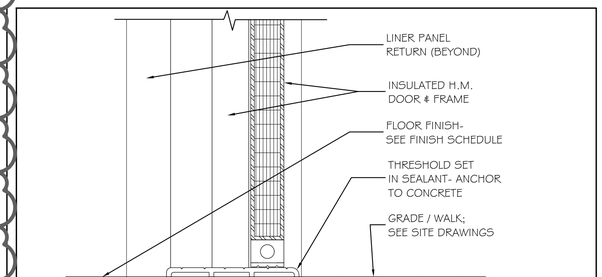
⑧ TOP OF PLYWOOD DETAIL — 1½" = 1'-0"



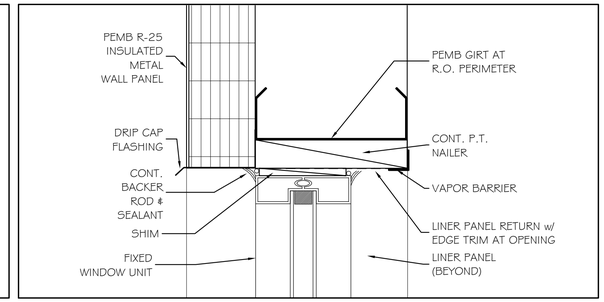
⑨ EXT. H.M. DOOR HEAD DETAIL — 3"= 1'-0"



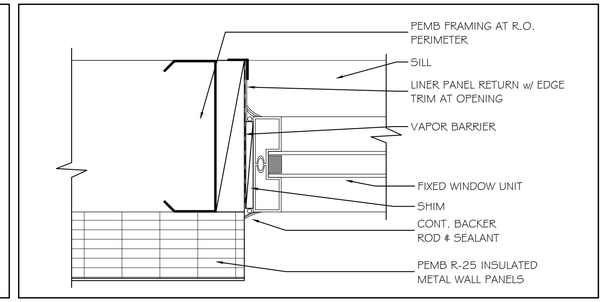
⑩ EXT. H.M. DOOR JAMB DETAIL — 3"= 1'-0"



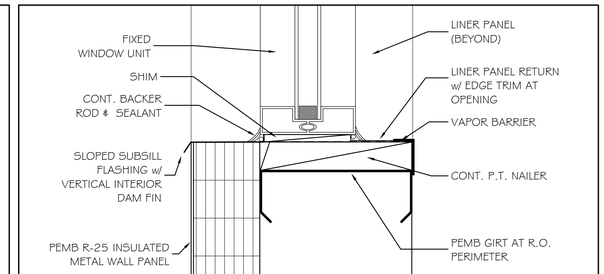
⑪ EXT. H.M. DOOR SILL DETAIL — 3"= 1'-0"



⑬ WINDOW HEAD DETAIL — 3"= 1'-0"



⑭ WINDOW JAMB DETAIL — 3"= 1'-0"



⑮ WINDOW SILL DETAIL — 3"= 1'-0"

⑫ ⑯

Scale: As indicated

Designed by: MICHAEL F. HAYS, RA

LICENSED ARCHITECT MICHAEL F. HAYS No. 1724 STATE OF MAINE

No.	Revision	By	Date
3	DETAILS 5, 6 & 7	MFH	5/20/25

	By	Date		By	Date
Designed:	MFH	04/25/25	Checked:	MFH	04/25/25
Drawn:	MGK	04/25/25			

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

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE

DETAILS

SHEET NUMBER: A-7

CONTRACT: 2025.11

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	BRANCH SIZES				NOTES
		CW	HW	VENT	WASTE	
P-1	WALL MOUNT SERVICE SINK	1/2"	1/2"	1-1/2"	2"	WITH MANUAL FAUCET

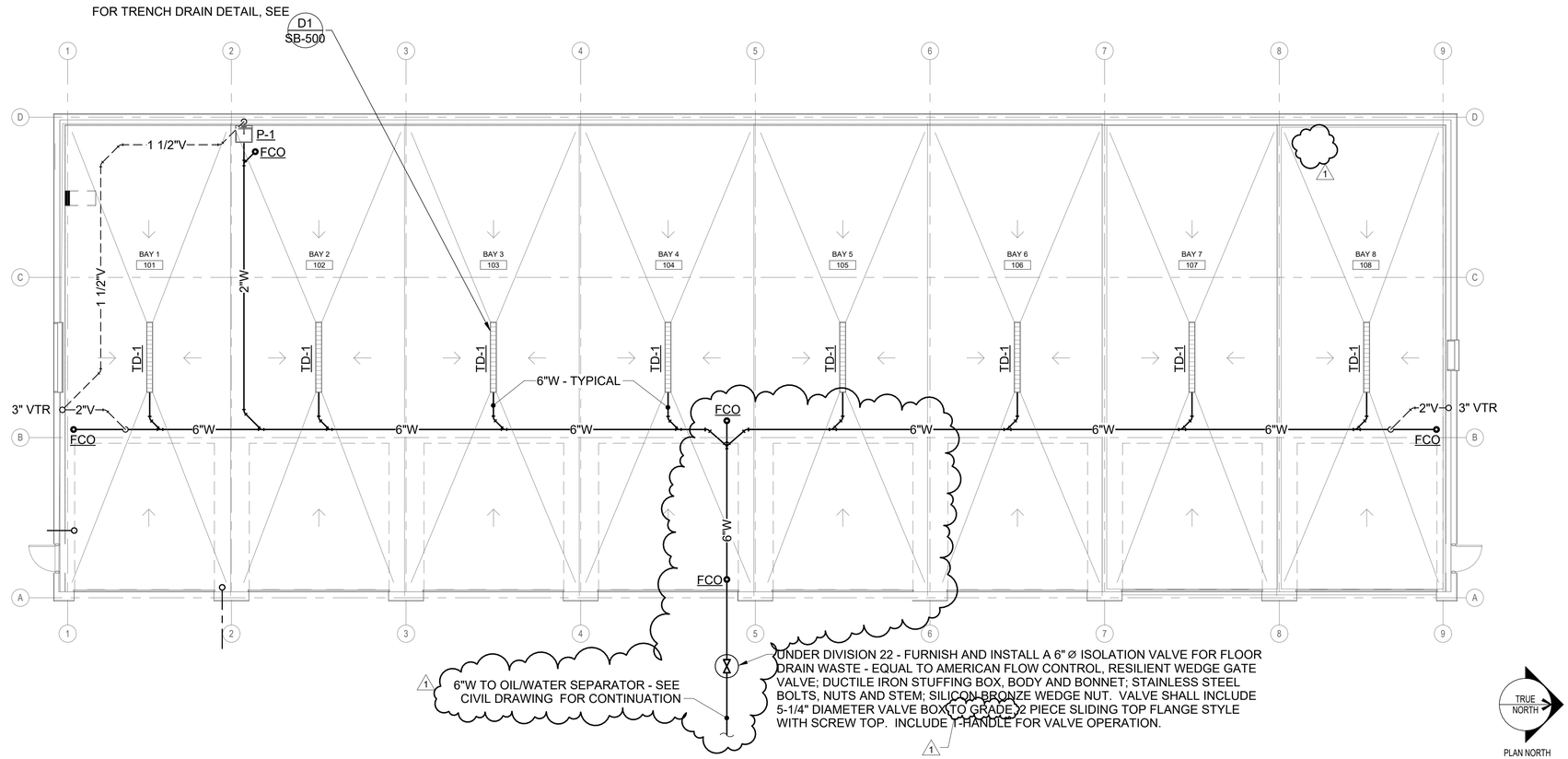
NOTES:

DOMESTIC WATER BOOSTER PUMP PACKAGE

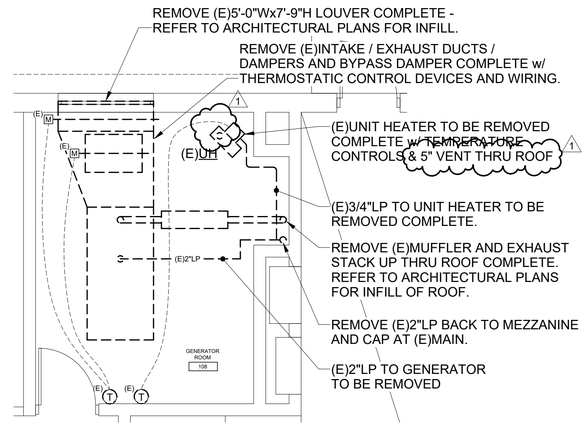
TAG	SYSTEM	MFR.	MODEL	TYPE	PUMPED FLUID	PERFORMANCE		ELECTRICAL		ELECTRICAL...		NOTES
						GPM (MAX.)	BOOST-HEAD (FT)	MOTOR HP	VOLTS/ PH (60 Hz.)	SINGLE PHASE VFD FURN. BY	DISC. SW. FURN BY	
SP-1	NON-POTABLE COLD WATER SUPPLY	PENTAIR	PENTEX XE, MS Series (L50P4JMGS)	VERTICAL IN-LINE MULT-STAGE	WATER	50	185	5	230/3	PUMP MFG.	DIV 26	1,2

NOTES: 1. REFER TO (D7-PP 100) FOR VFD CONTROLLER LOCATION
2. VFD SHALL BE SET FOR 230V SINGLE PHASE INPUT, 230V 3 PHASE OUTPUT.

D1	PLUMBING SCHEDULES
NONE	



A1	SANITARY PIPING PLAN
1/8" = 1'-0"	



A8	DEMOLITION PART PLAN - EXISTING GARAGE
1/4" = 1'-0"	

Scale: As indicated

No.	Revision	By	Date
1	Addendum #3	SO	05/16/2025

Designed by:

Anthony S. Davis, PE

STATE OF MAINE ANTHONY S. DAVIS No. 8834 LICENSED PROFESSIONAL ENGINEER

	By	Date		By	Date
Designed:	ASD	04/25/2025	Checked:	ASD	04/25/2025
Drawn:	REW	04/25/2025			

Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266

SO PROJ.NO.:2561-00178 CAD FILE:

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

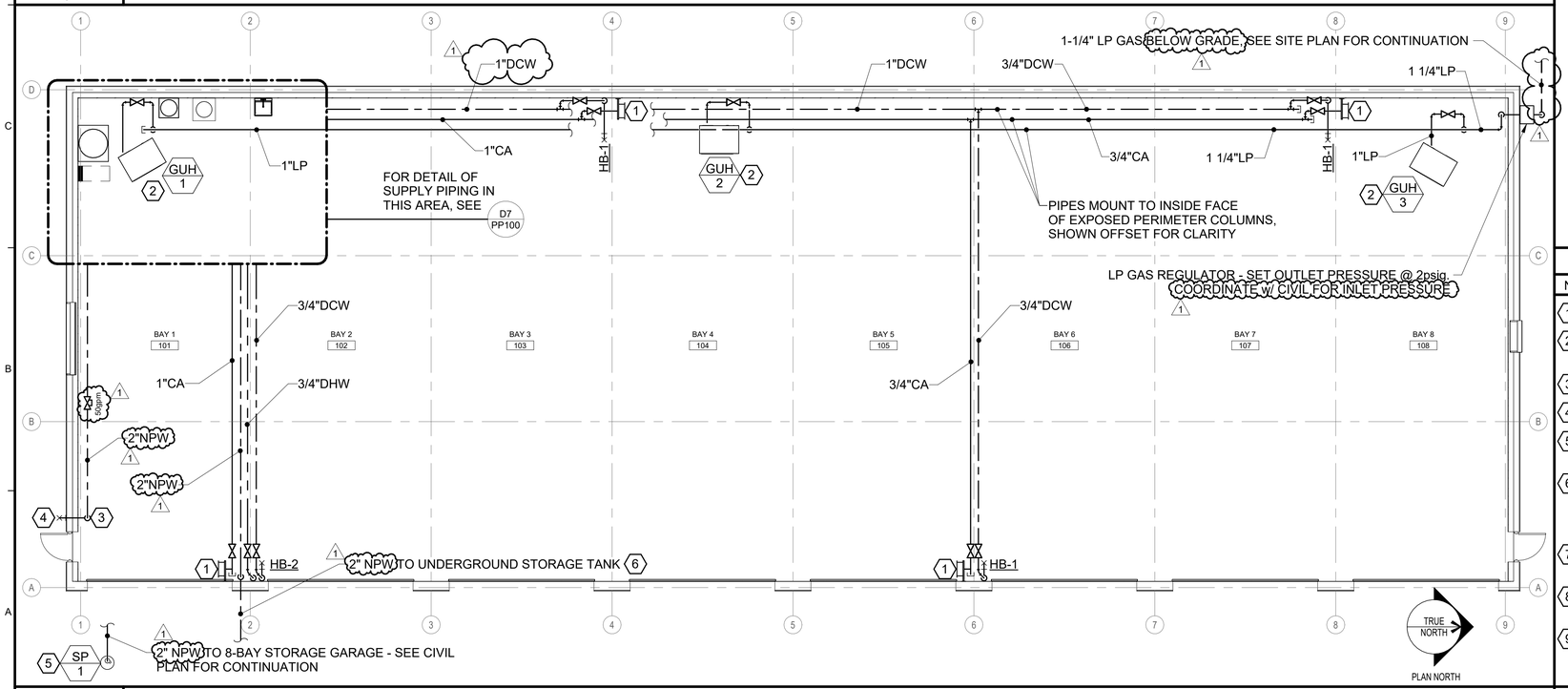
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

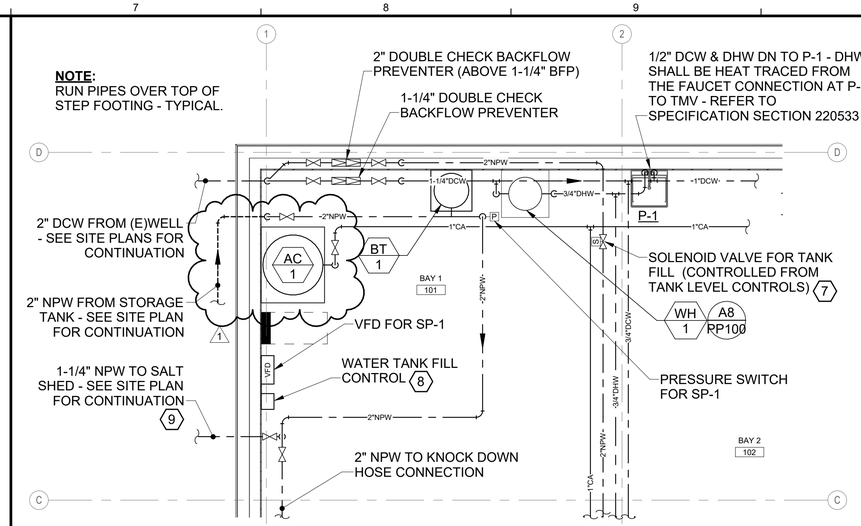
AUBURN VEHICLE STORAGE GARAGE
SANITARY PIPING PLAN

SHEET NUMBER: PL100

CONTRACT: 2025.11

27 OF 36





EXPANSION/COMPRESSION TANK SCHEDULE

	ET-1	BT-1
SYSTEM	DOMESTIC HOT WATER	DOMESTIC COLD WATER-BOOSTER PUMP
PIPE SIZE	3/4"	1"
BLADDER-TYPE EXPANSION TANK		
MFR-MODEL	AMTROL ST-5C-DD	AMTROL WX-400C
TANK DIAMETER	8	16
TANK HEIGHT	14	31
ACCEPTANCE VOLUME	0.9	11
WEIGHT LBS	10	96

ELECTRIC WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	VOLTS	PHASE	HEAT INPUT (KW)	GPH RECOVERY	TEMP RISE (DEG-F)	WATER STORAGE (GAL)	HEIGHT (INCHES)	DIAMETER (INCHES)	APPROX WEIGHT (LBS.)
WH-1	AO SMITH	ENS-40	240	1	4.5	21	90	40	49 3/4	20 1/2	445

AIR COMPRESSOR SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MAXIMUM FLOW EA. PUMP (acfm)	MAXIMUM PUMP PRESS. (psig)	RECEIVER			ELECTRICAL				PHYSICAL	NOTES
						SIZE (gal.)	RECEIVER TYPE	DIA. (in.)	MOTOR QUAN.	MOTOR SIZE (hp)	MOTOR SPEED (rpm)	VOLT/PH	LENGTH/ WIDTH/ HEIGHT (in.)	
AC-1	INGERSOLL RAND	2475N7.5	2-STAGE RECIP	24	175	80	VERTICAL	38	1	7.5	---	230/1	38/26/70	

D1 PLUMBING SCHEDULES

NONE

D7 PLUMBING SUPPLY PIPING PART PLAN

1/4" = 1'-0"

C7 DETAIL - DOMESTIC WATER HEATER PIPING SCHEMATIC - WH-1

NOT TO SCALE

A1 DOMESTIC PIPING PLAN

1/8" = 1'-0"

1. COMPRESSED AIR HOSE REEL WITH 3/4"CA CONNECTION - SEE SPECIFICATION SECTION 221513.
2. FURNISH AND INSTALL AN APPLIANCE GAS REGULATOR AS SPECIFIED. SET AT 2psig OUTLET PRESSURE, CAPACITY PER HEATER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE 2" SLOW CLOSING GLOBE VALVE IN PIPE RISER - 4'-0" A.F.F.
4. KNOCK DOWN HOSE CONNECTION - COORDINATE w/ MTA FOR TERMINATION REQUIREMENTS.
5. SUBMERSIBLE PUMP WITH PITLESS ADAPTER MOUNTED IN 6" STAND PIPE AT WATER STORAGE TANK - SEE CIVIL DRAWINGS FOR DETAIL.
6. UNDER DIVISION 22, FURNISH AND INSTALL TANK FILL CONTROL WITH HI/LO ALARMS. TANK LEVEL CONTROL SHALL BE EQUAL TO WATER LINE CONTROLS MODEL WLC-5000-100VAC, COORDINATE WITH TANK MANUFACTURER FOR TANK INSTALLATION REQUIREMENTS. LOCATE CONTROLLER AS NOTED. BY DIVISION 22.
7. SOLENOID VALVE SHALL BE PIPE LINE SIZE, BRASS, EQUAL TOO ASCO 8210 SERIES, NORMALLY CLOSED, 24v OR 120v ACTUATOR IS ACCEPTIBLE. VALVE SHALL BE SLOW CLOSING SOLENOID TO AVOID WATER SHOCK.
8. CONTROL WIRING FROM CONTROLLER TO MAKE-UP VALVE AND FROM TANK CONTROLS TO CONTROLLER BY DIVISION 22.
9. SUBSEQUENT TO INSTALLATION OF THE NEW WATER SERVICE INTO THE (E)SAND SHED, DIVISION 22 SHALL INSULATE THE NEW SERVICE ABOVE THE PAVED FLOOR IN THE SAND SHED AND SHALL FURNISH AND INSTALL A 1-1/4" DOUBLE CHECK BACKFLOW PREVENTOR WITH 1-1/4" BALL VALVE 3'-0" ABOVE FINISHED FLOOR.

A7 KEYED NOTES

NONE

Scale:
As indicated

No.	Revision	By	Date
1	Addendum #3	SO	05/16/2025

Designed by:
Anthony S. Davis, PE
ANTHONY S. DAVIS No. 8834

	By	Date		By	Date
Designed:	ASD	04/25/2025	Checked:	ASD	04/25/2025
Drawn:	REW	04/25/2025			

Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266

SO PROJ.NO.:2561-00178 CAD FILE:

MAINE TURNPIKE

THE GOLD STAR
MEMORIAL HIGHWAY

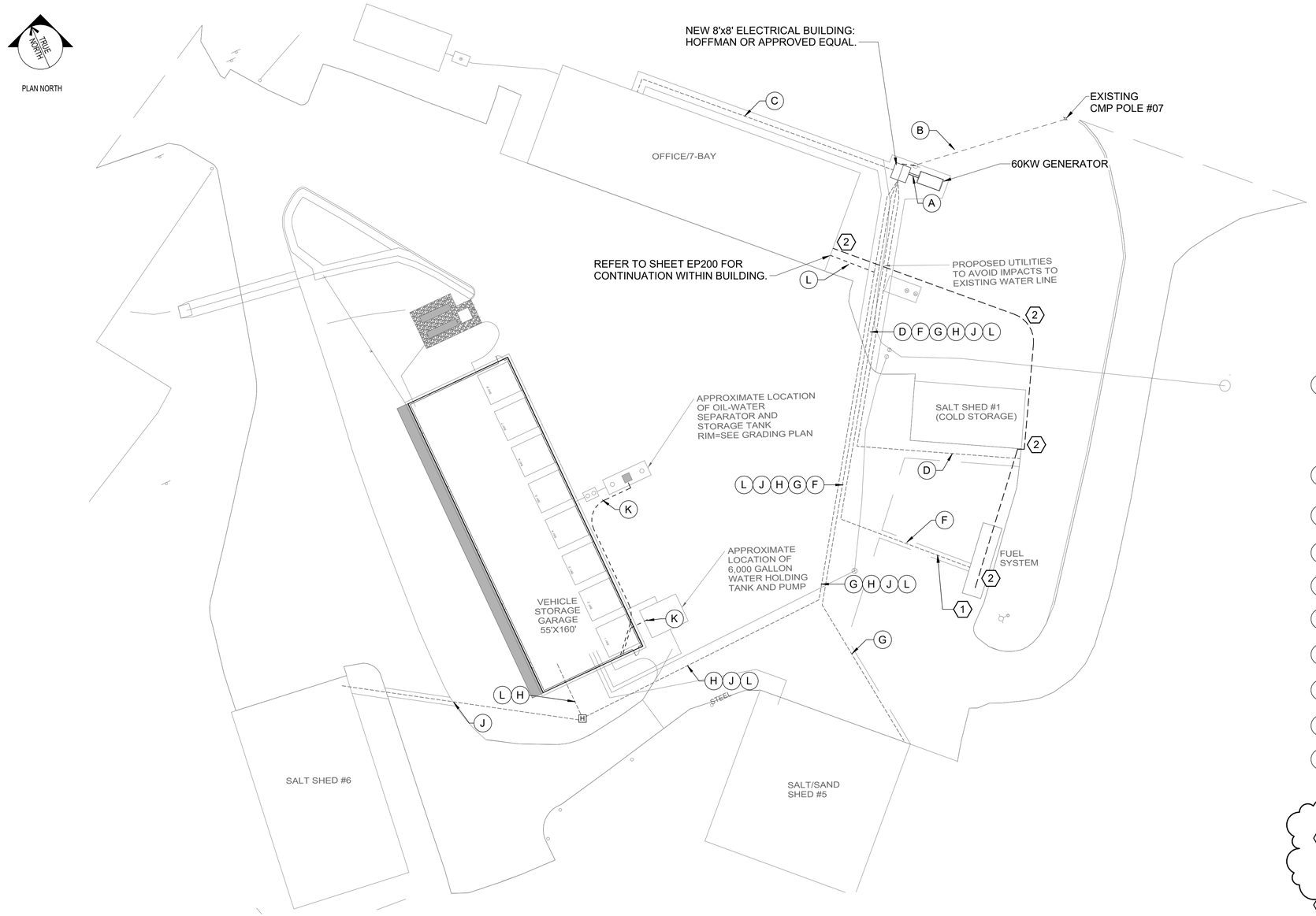
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

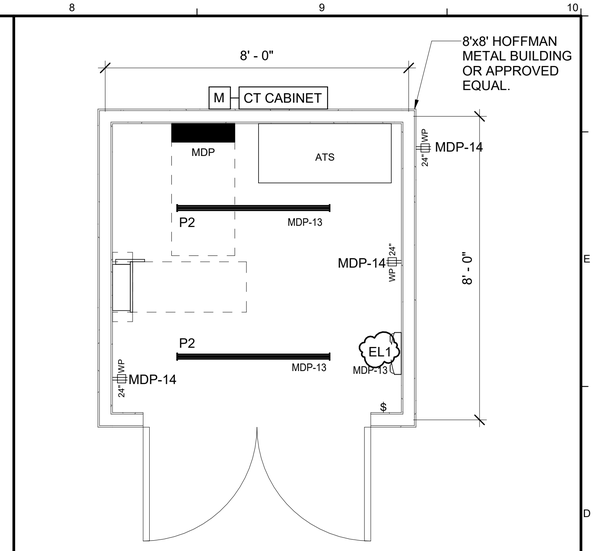
AUBURN VEHICLE STORAGE GARAGE
DOMESTIC PIPING PLAN

SHEET NUMBER: PP100

CONTRACT: 2025.11

28 OF 36





1 GENERATOR BUILDING

1/2" = 1'-0"

CONDUIT AND WIRING KEY:

(A) UNDERGROUND EMERGENCY FEEDER AND SUPPORT CONDUITS:
ATS EMERGENCY FEEDER - (1) 3" CONDUIT - REFER TO ONE LINE DIAGRAM FOR FEEDERS
(1) 1"CONDUIT - GENERATOR START CIRCUIT
(1) 1"CONDUIT - GENERATOR BATTERY CHARGER CIRCUIT
(1) 1"CONDUIT - GENERATOR REMOTE ANNUNCIATOR
(1) 1"CONDUIT - GENERATOR JACKET WATER HEATER AND STRIP HEATER CIRCUIT
(1) 1"CONDUIT - GENERATOR REMOTE EMERGENCY STOP

(B) OVERHEAD ELECTRICAL SERVICE ENTRANCE:
-MINIMUM VERTICAL CLEARANCE OF 12' ABOVE GRADE.

(C) OFFICE/5 BAY GARAGE FEEDER:
-(1) 3" CONDUIT - REFER TO ONE LINE DIAGRAM FOR FEEDERS

(D) COLD STORAGE (SALT SHED #1) FEEDER:
-(1) 1-1/4"" CONDUIT - REFER TO ONE LINE DIAGRAM FOR FEEDERS

(F) FUEL ISLAND CIRCUITS:
-(4) 1" CONDUIT - REFER TO PANEL MP SCHEDULE FOR CIRCUIT SIZING

(G) SALT/SAND SHED #5 FEEDER:
-(1) 1-1/4" CONDUIT - REFER TO ONE LINE DIAGRAM FOR FEEDERS

(H) VEHICLE STORAGE GARAGE FEEDER:
-(1) 2" CONDUIT - REFER TO ONE LINE DIAGRAM FOR FEEDERS

(J) SALT SHED #6 FEEDER:
-(1) 1-1/4" CONDUIT - REFER TO ONE LINE DIAGRAM FOR FEEDERS

(K) CONDUIT FOR TANK MONITORING:
-(1) 1" CONDUIT UNDERGROUND WITH PULL STRING FOR TANK MONITORING

(L) CONDUIT FOR FIBER BY OWNER:
-(2) 2" EMPTY CONDUIT WITH PULLSTRING FOR FIBER/DATA CONNECTION BACK TO OFFICE/5 BAY GARAGE. STUBBED UP 2' ABOVE FINISHED FLOOR IN EACH BUILDING.

KEYED NOTES:

(1) FUEL STATION CIRCUITS FED THROUGH CONDUIT UNDERNEATH THE EXISTING CONCRETE SLAB. CONNECT NEW CONDUIT RUNS TO EXISTING CONDUIT AND RUNS NEW FEEDERS TO EXISTING DEVICE LOCATIONS AT FUEL ISLAND. MTA FUEL ELECTRICIAN WILL RUN THE FEEDERS IN CONTRACTOR-INSTALLED CONDUITS. CONTRACTOR SHALL COORDINATE THIS WORK THROUGH THE RESIDENT.

(2) REMOVAL OF TEMPORARY POWER FOR FUEL ISLAND: FUEL ISLAND PUMPS ARE CURRENTLY POWER WITH TEMPORARY POWER RUN FROM OFFICE BUILDING TO COLD STORAGE TO FUEL ISLAND. ALL TO BE REMOVED ONCE PERMANENT POWER IS BROUGHT TO FUEL ISLAND.

A1 ELECTRICAL SITE PLAN OVERHEAD

1" = 30'-0"

Scale: As indicated

No.	Revision	By	Date
1	Addendum #3	SO	05/16/2025

Designed by: Anthony S. Davis, PE

STATE OF MAINE BRIAN T. GARDNER No. 15506 LICENSED PROFESSIONAL ENGINEER

	By	Date		By	Date
Designed:	BTG	04/25/2025	Checked:	BTG	04/25/2025
Drawn:	PMC	04/25/2025			

Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266

SO PROJ.NO.:2561-00178 CAD FILE:

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
ELECTRICAL SITE PLAN

SHEET NUMBER: ES100

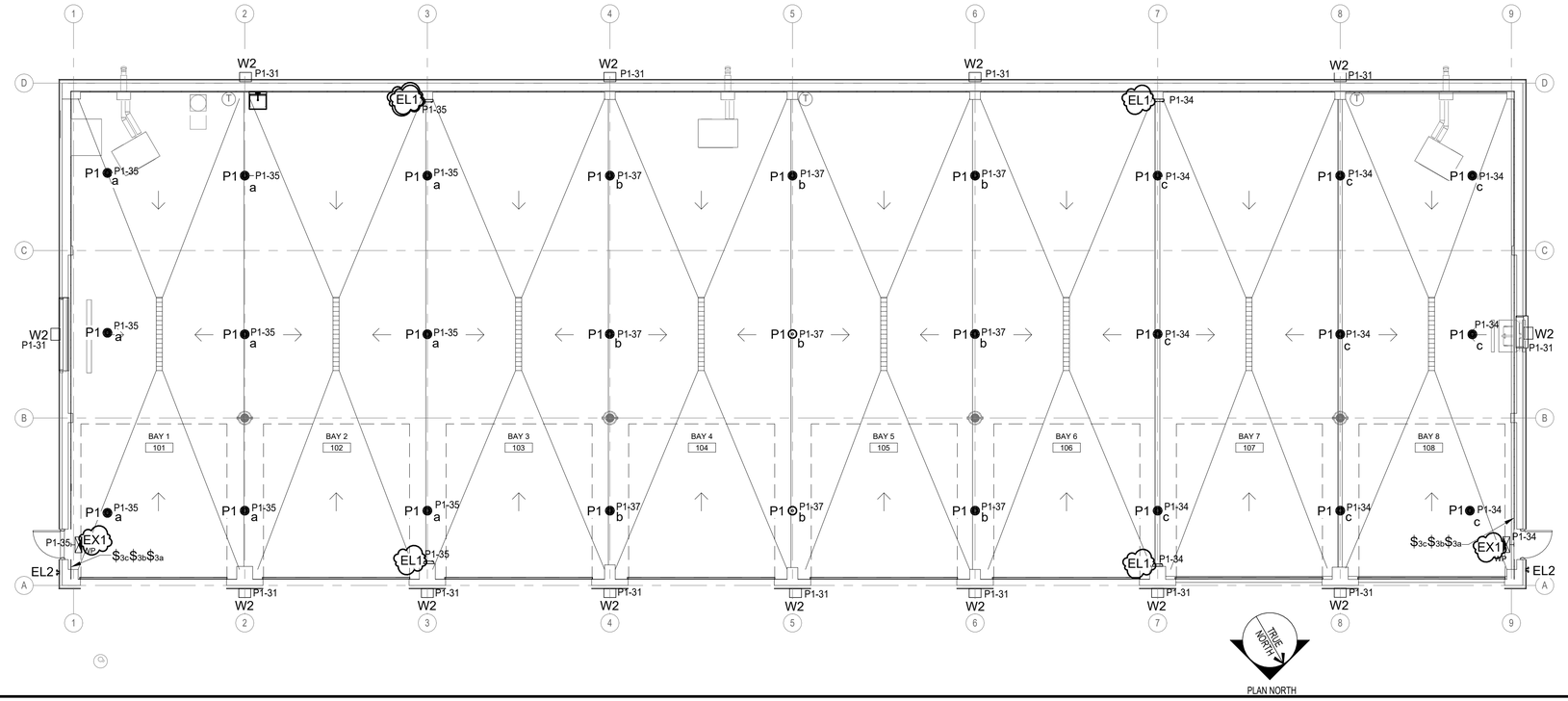
CONTRACT: 2025.11

LUMINAIRE SCHEDULE- KEY NOTE 1,2

TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER - SEE KEY NOTE 1	MOUNTING	VOLTS	LAMP/LIGHT ENGINE			KEY NOTES
						WATTS	DELIVERED LUMENS	TYPE	
P1	CRB WET LOCATION HIGH BAY	STARTEK	CRB-50LX-EDU	PENDANT 16' AFF	120V	102W	14107	LED 5000K	5
P2	4' LINEAR LED - STAR POWER WIDE	STARTEK	SPW-4-S-SD-50K-CA-U	PENDANT 10' AFF	120V	68W	9764	LED 4000K	4
W2	EXTERIOR GALLEON WALL BACK WITH BUILT IN MOTION/PHOTOCELL	MCGRAW EDISON	GWC-SA2A-740-120V-T4W-BZ-MS-L 40W	WALL 17' AFF	120V	67	9658	LED 4000K	6
EX1	EXIT SIGN W/ EMER HEADS	SURELITES	APCH7R	MOUNT 7'-6" AFF	120VAC/ 12VDC	2.8W		LED	3
EL1	EMERGENCY BATTERY LIGHT	SURELITES	APELH2	WALL 7'-6" AFF	120VAC/ 12VDC	0.6W		LED	
EL2	EMERGENCY REMOTE HEADS - EXTERIOR WET LOCATION RATED	SURELITES	APWR-2	WALL 9'-0" AFF	120VAC/ 12VDC	.78W		LED	

KEY NOTES

1	**NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED.**
2	VERIFY CEILING STRUCTURE AND MOUNTING HEIGHT PRIOR TO ORDERING ANY LIGHT FIXTURES.
3	PROVIDE WALL,CEILING, OR PENDANT MOUNTING AS INDICATED ON PLANS. PROVIDE NUMBER OF FACES AND ARROWS AS INDICATED.
4	PROVIDE SATINICE DIFFUSED LENS
5	PROVIDE RIGID STEMS FOR PENDANT MOUNTED FIXTURE.
6	PROVIDE INTEGRAL PHOTOCELL AND MOTION SENSOR THAT WILL BE AUTO ON/AUTO OFF VIA MOTION SENSOR ONLY AFTER DUSK



A1 — LIGHTING PLAN

1/8" = 1'-0"

Scale: 1/8" = 1'-0"

No.	Revision	By	Date
1	Addendum #3	SO	05/16/2025

Designed by: Anthony S. Davis, PE

	By	Date		By	Date
Designed:	BTG	04/25/2025	Checked:	BTG	04/25/2025
Drawn:	PMC	04/25/2025			

Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266

SO PROJ.NO.:2561-00178 CAD FILE:

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
LIGHTING PLAN

SHEET NUMBER: EL100

CONTRACT: 2025.11

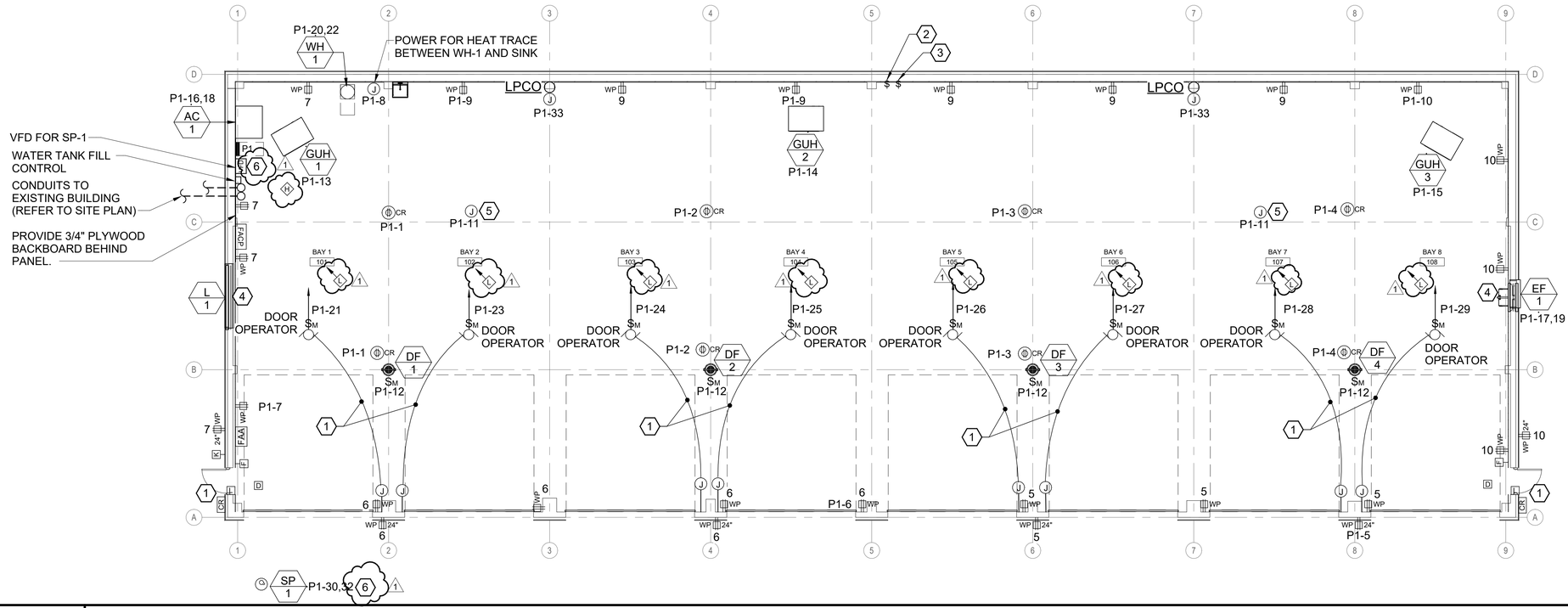
ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT- REFER TO PANEL SCHEDULES FOR CIRCUITING

TAG	DESCRIPTION/ AREA SERVED	VOLTS	PH	LOAD	FLA	MCA	MOPD	DISCONNECT SWITCH					STARTER (NEMA)		CBD	WIRING IN CONDUIT (2 #12, 1#12 G UNO)	NOTES
								FRAME	POLES	FUSE	NEMA...	FBD	SIZE/ VFD	FBD			
AC-1	AIR COMPRESSOR	240	1	7.5 HP	40	40	80	60	2		3R	22		22	22	2 #4, 1 #8G	
GUH-1	GAS UNIT HEATER	120	1	1/2 HP	9.8		20	FWE				23		23	23		
GUH-2	GAS UNIT HEATER	120	1	1/2 HP	9.8		20	FWE				23		23	23		
GUH-3	GAS UNIT HEATER	120	1	1/2 HP	9.8		20	FWE				23		23	23		
DF-1,2,3	DESTRATIFICATION FANS	120	1	106W	1.0		15	MRT				26		23	23		
EF-1	EXHAUST FAN	240	1	3 HP	17.0		30	FWE				23		23	23	3 #12, 1 #12G	
WH-1	ELECTRIC WATER HEATER	240	1	4500W	18.8		30	MRT				23		23	23	2 #10, 1 #10G	
SP-1	DOMESTIC WATER BOOSTER PUMP	240	1	5HP	28.0	60	60	60	2	60	3R	26		23	23	2 #6, 1 #8G	

NOTES:

ABBREVIATIONS:

FWE	FURNISHED WITH EQUIPMENT
NF	NOT FUSED
SWBD	SWITCHBOARD
FBD	FURNISHED BY DIVISION
CBD	CONTROL WIRING BY DIVISION
MRT	MOTOR RATED TOGGLE SWITCH (VOLTAGE, CURRENT RATING AND POLE QUANTITY AS REQUIRED)



KEYED NOTES:

1. PROVIDE EMPTY J-BOX 44" ABOVE FINISHED FLOOR AND 1-1/2" EMPTY CONDUIT FOR DOOR CONTROL WIRING AND CONTROLS BY OTHERS.
2. DESTRATIFICATION FAN DF-1 thru DF-4 MANUAL SPEED CONTROL-CONTROLS BY OTHERS
3. EXHAUST FAN EF-1/L-1 VENTILATION TIMER AND VARIABLE SPEED CONTROLS LOCATION - CONTROL DEVICES SUPPLIED BY DIVISION 23, WIRED BY DIVISION 26.
4. WIRE AND CONNECT EF-1/L-1 THROUGH TIMER SWITCH AND VARIABLE SPEED CONTROLLER SUPPLIED BY DIVISION 23, COORDINATE WITH DIVISION 23.
5. PROVIDE 120 VOLT POWER FOR HVAC CONTROLS AT UNDERSIDE OF DECK. CONTROLS BY OTHERS.
6. POWER CIRCUITING FOR MECH EQUIP SP-1 SHALL BE CIRCUITED THROUGH VFD THEN WIRED OUT TO PUMP LOCATED IN TANK. WIRING FROM PANEL TO VFD SHALL BE AS NOTED IN ELECTRICAL SCHEDULE OF MECH EQUIPMENT. CONDUIT AND WIRING FROM VFD TO PUMP SHALL BE (4) #10 & #10G IN 1" CONDUIT.

A1 POWER AND SYSTEMS PLAN

1/8" = 1'-0"

Scale: 1/8" = 1'-0"

No.	Revision	By	Date
1	Addendum #3	SO	05/16/2025

Designed by:

Anthony S. Davis, PE

STATE OF MAINE — BRIAN T. GARDNER No. 15506 — LICENSED PROFESSIONAL ENGINEER

	By	Date		By	Date
Designed:	BTG	04/25/2025	Checked:	BTG	04/25/2025
Drawn:	PMC	04/25/2025			

Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266

SO PROJ.NO.:2561-00178 CAD FILE:

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
POWER AND SYSTEMS PLAN

SHEET NUMBER: EP100

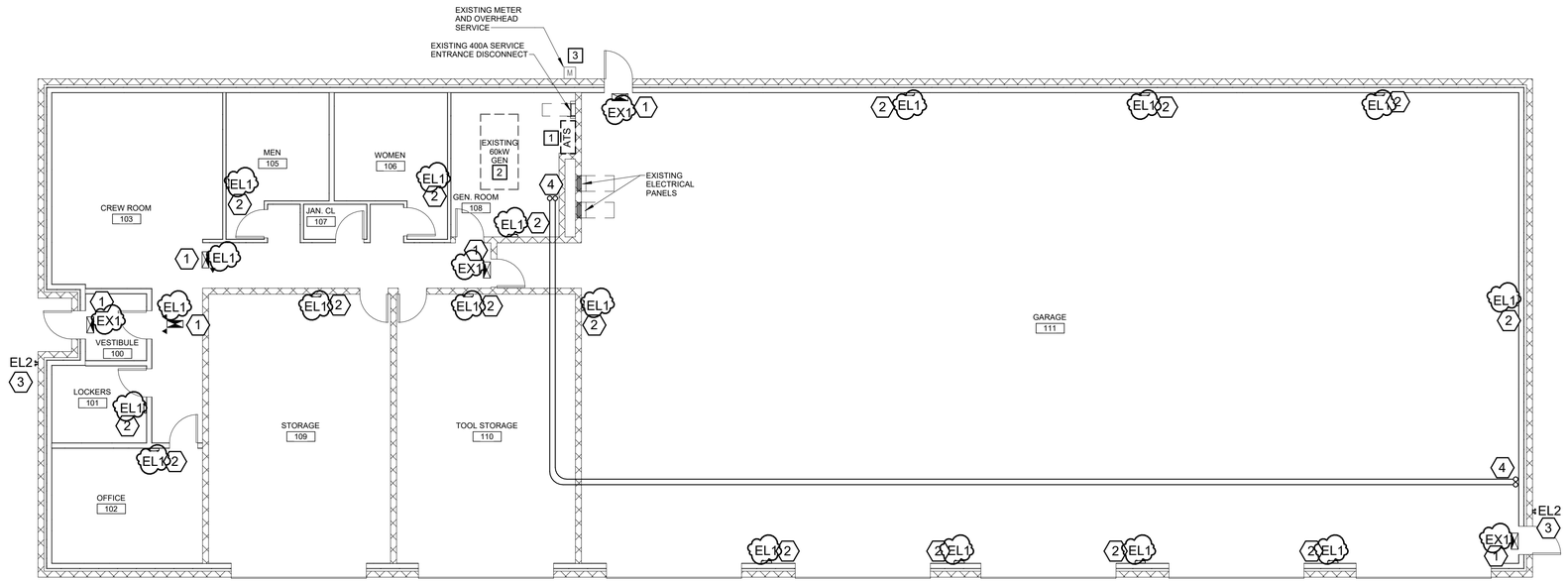
CONTRACT: 2025.11

REMOVAL NOTES:

1. EXISTING 400A ATS - ATS TO BE REMOVED AND TURNED OVER TO OWNER. FEEDERS BETWEEN ATS AND GENERATOR TO BE REMOVED. FEEDERS BETWEEN THE EXISTING 400A DISCONNECT AND EXISITNG PANELS IN GARAGE SHALL REMAIN.
2. EXISTING 60KW GENERATOR SHALL BE SAFELY DISCONNECTED, REMOVED FROM BUILDING AND TURNED OVER TO OWNER. ALL CONTROLS, GAS AND POWER TO BE REMOVED.
3. EXISTING METER AND OVERHEAD SERVICE TO BE REMOVED, NEW SERVICE SHALL BE TIED IN AT THE LOCATION WHERE METER WAS REMOVED.

KEYED NOTES:

1. NEW EMERGENCY EXIT SIGNS SHALL BE CIRCUITED TO EXISTING EXIT SIGN CIRCUIT.
2. NEW EMERGENCY BATTERY UNITS TO BE CIRCUITED TO CLOSEST AVAILABLE LIGHTING CIRCUIT AHEAD OF ANY LIGHTING SWITCHING. ALL EMERGENCY DEVICES REQUIRE CONSTANT POWER.
3. EXTERIOR FIXTURE EL2 SHALL BE POWER THROUGH THE CLOSEST EL1 FIXTURE.
4. (2) 2" CONDUITS FOR FIBER/COMMUNICATIONS- CONDUITS SHALL ROUTE THROUGH BUILDING AND BE STUBBED INTO ATTIC SPACE ABOVE THE EXISTING GENERATOR ROOM. CONDUITS SHALL HAVE PULL STRINGS.



A1	ELECTRICAL AND LIGHTING PLAN
1/8" = 1'-0"	

Scale: 1/8" = 1'-0"

No.	Revision	By	Date
1	Addendum #3	SO	05/16/2025

Designed by: Anthony S. Davis, PE

STATE OF MAINE — BRIAN T. GARDNER No. 15506 — LICENSED PROFESSIONAL ENGINEER

	By	Date		By	Date
Designed:	BTG	04/25/2025	Checked:	BTG	04/25/2025
Drawn:	PMC	04/25/2025			

Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266

SO PROJ.NO.:2561-00178 CAD FILE:

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
EXISTING OFFICE/MAINTENANCE BUILDING

SHEET NUMBER: EP200

CONTRACT: 2025.11

FEEDER SCHEDULE

TAG	MAXIMUM AMPERE RATING	PHASE AND NEUTRAL CONDUCTORS (NOTE 1)	GROUND CONDUCTOR (NOTE 2)	CONDUIT (NOTE 3)	TAG	MAXIMUM AMPERE RATING	PHASE AND NEUTRAL CONDUCTORS (NOTE 1)	GROUND CONDUCTOR (NOTE 2)	CONDUIT (NOTE 3)
15D	15	3#12	1#12	3/4"	400D	400	3#500 KCMIL	1#3	3 1/2"
15Y		4#12	1#12	3/4"	400Y		4#500 KCMIL	1#3	4"
30D	30	3#10	1#10	3/4"	450D	450	2 SETS OF 3#250 KCMIL	2 - #2	2 - 2 1/2"
30Y		4#10	1#10	3/4"	450Y		2 SETS OF 4#250 KCMIL	2 - #2	2 - 3"
50D	50	3#8	1#10	3/4"	500D	500	2 SETS OF 3#250 KCMIL	2 - #2	2 - 2 1/2"
50Y		4#8	1#10	1"	500Y		2 SETS OF 4#250 KCMIL	2 - #2	2 - 3"
60D	60	3#6	1#10	3/4"	600D	600	2 SETS OF 3#350 KCMIL	2 - #1	2 - 3"
60Y		4#6	1#10	1 1/4"	600Y		2 SETS OF 4#350 KCMIL	2 - #1	2 - 3"
80D	80	3#4	1#8	1 1/4"	700D	700	2 SETS OF 3#500 KCMIL	2 - #1/0	2 - 3 1/2"
80Y		4#4	1#8	1 1/4"	700Y		2 SETS OF 4#500 KCMIL	2 - #1/0	2 - 4"
100D	100	3#2	1#8	1 1/4"	800D	800	2 SETS OF 3#600 KCMIL	2 - #1/0	2 - 3 1/2"
100Y		4#2	1#8	1 1/4"	800Y		2 SETS OF 4#600 KCMIL	2 - #1/0	2 - 4"
125D	125	3#1	1#6	1 1/2"	900D	900	3 SETS OF 3#350 KCMIL	3 - #2/0	3 - 3"
125Y		4#1	1#6	1 1/2"	900Y		3 SETS OF 4#350 KCMIL	3 - #2/0	3 - 3"
150D	150	3#1/0	1#6	1 1/2"	10HD	1000	3 SETS OF 3#400 KCMIL	3 - #2/0	3 - 2 1/2"
150Y		4#1/0	1#6	2"	10HY		3 SETS OF 4#400 KCMIL	3 - #2/0	3 - 3"
175D	175	3#2/0	1#6	2"	12HD	1200	3 SETS OF 3#600 KCMIL	3 - #3/0	3 - 4"
175Y		4#2/0	1#6	2"	12HY		3 SETS OF 4#600 KCMIL	3 - #3/0	3 - 4"
200D	200	3#3/0	1#6	2"	16HD	1600	4 SETS OF 3#600 KCMIL	4 - #4/0	4 - 4"
200Y		4#3/0	1#6	2"	16HY		4 SETS OF 4#600 KCMIL	4 - #4/0	4 - 4"
225D	225	3#4/0	1#4	2"	20HD	2000	5 SETS OF 3#600 KCMIL	5 - #250 KCMIL	5 - 4"
225Y		4#4/0	1#4	2 1/2"	20HY		5 SETS OF 4#600 KCMIL	5 - #250 KCMIL	5 - 4"
250D	250	3#250 KCMIL	1#4	2 1/2"	25HD	2500	6 SETS OF 3#600 KCMIL	6 - #350 KCMIL	6 - 4"
250Y		4#250 KCMIL	1#4	3"	25HY		6 SETS OF 4#600 KCMIL	6 - #350 KCMIL	6 - 4"
300D	300	3#350 KCMIL	1#4	3"	30HD	3000	8 SETS OF 3#600 KCMIL	8 - #500 KCMIL	8 - 4"
300Y		4#350 KCMIL	1#4	3"	30HY		8 SETS OF 4#600 KCMIL	8 - #500 KCMIL	8 - 4"
350D	350	3#500 KCMIL	1#3	3 1/2"	40HD	4000	10 SETS OF 3#600 KCMIL	10 - #500 KCMIL	10-4"
350Y		4#500 KCMIL	1#3	4"	40HY		10 SETS OF 4#600 KCMIL	10 - #500 KCMIL	10-4"
TRS	REFER TO TRANSFORMER SCHEDULE FOR PRIMARY, SECONDARY AND GROUND FEEDER SIZES				50HD	5000	12 SETS OF 3#600 KCMIL	12 - #500 KCMIL	12-4"
					50HY		12 SETS OF 4#600 KCMIL	12 - #500 KCMIL	12-4"

FEEDER SCHEDULE NOTES:

1	WIRING BASED ON COPPER THWN/THHN.
2	GROUNDING CONDUCTORS BASED ON USE AS A FEEDER (REFER TO ONE LINE DIAGRAMS FOR SERVICE ENTRANCE GROUNDING ELECTRODE SIZES).
3	CONDUIT SIZE BASED ON EMT.
4	FEEDER TAG ENDIING IN "E" INDICATES PROVIDE CONDUITS ONLY; CONDUCTORS ARE FUTURE.
5	FEEDERS GREATER THAN 300 FEET APPLY VOLTAGE DROP ACCOMMODATION BY INCREASING CONDUCTOR AND CONDUIT SIZES APPROPRIATELY.
6	MAXIUMUM SYSTEM VOLTAGE IS 600 (REFER TO ONE LINE DIAGRAMS FOR MEDIUM AND HIGH VOLTAGE FEEDER SIZES).
7	FEEDER TAG ENDING IN "S" INDICATES SERVICE ENTRANCE FEEDER. EXCLUDE THE GROUND CONDUCTOR INDICATED IN THE TABLE.

Lighting and Appliance Panelboard: P1

Location: BAY 1 101 **Volts:** 120/240 Single **A.I.C. Rating:** REFER TO STUDY
Supply From: MDP **Phases:** 1 **Mains Type:** MCB
Mounting: Surface **Wires:** 3 **Bus Rating:** 250 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip Amps	Poles	A	B	Poles	Trip Amps	Circuit Description	CKT
1	CORD REELS BAYS 1-2	20	1	0.4 0.4		1	20	CORD REELS BAYS 3-4	2
3	CORD REELS BAYS 5-6	20	1		0.4 0.4	1	20	CORD REELS BAYS 7-8	4
5	Receptacles	20	1	0.9 1.1		1	20	Receptacles	6
7	Receptacles	20	1		0.9 0.3	1	20	HEAT TRACE	8
9	Receptacles	20	1	1.1 0.9		1	20	Receptacles	10
11	HVAC CONTROL POWER	20	1		1.0 0.4	1	20	HVAC - DESTRAT FANS	12
13	GAS UNIT HEATER 1	20	1	1.2 1.2		1	20	GAS UNIT HEATER 2	14
15	GAS UNIT HEATER 3	20	1		1.2 4.8	2	80	AC-1 - AIR COMPRESSOR	16
17	HVAC - EF-1	30	2	2.0 4.8					18
19					2.0 2.3	2	60	HVAC - WH-1	20
21	DOOR OPERATOR BAY 1	20	1	1.0 2.3					22
23	DOOR OPERATOR BAY 2	20	1		1.0 1.0	1	20	DOOR OPERATOR BAY 3	24
25	DOOR OPERATOR BAY 4	20	1	1.0 1.0		1	20	DOOR OPERATOR BAY 5	26
27	DOOR OPERATOR BAY 6	20	1		1.0 1.0	1	20	DOOR OPERATOR BAY 7	28
29	DOOR OPERATOR BAY 8	20	1	1.0 3.4		2	60	HVAC - SP-1	30
31	EXTERIOR BUILDING...	20	1		0.9 3.4				32
33	LP GAS CO DETECTOR	20	1	0.5 0.9		1	20	Lighting Interior	34
35	Lighting Interior	20	1		0.9 0.0	1	20	SPARE	36
37	Lighting Interior	20	1	0.9 0.0		1	20	SPARE	38
39	SPARE	20	1		0.0 0.0	1	20	SPARE	40
41	SPARE	20	1	0.0 0.0		1	20	SPARE	42
			Total Load:	25.6 kW	22.5 kW				
			Total Amp:	214 A	187 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	15737 VA	100.00%	15737 VA		
Motor	9600 VA	125.00%	12000 VA	**Total Conn. Load:**	48.1 kW
Other	20 VA	100.00%	20 VA	**Total Est. Demand:**	51.4 kW
Lighting	3507 VA	125.00%	4383 VA	**Total Conn.:**	200 A
Power	9430 VA	100.00%	9430 VA	**Total Est. Demand:**	214 A
Receptacle	4860 VA	100.00%	4860 VA		
Heating	3528 VA	100.00%	3528 VA		

Lighting and Appliance Panelboard: MDP

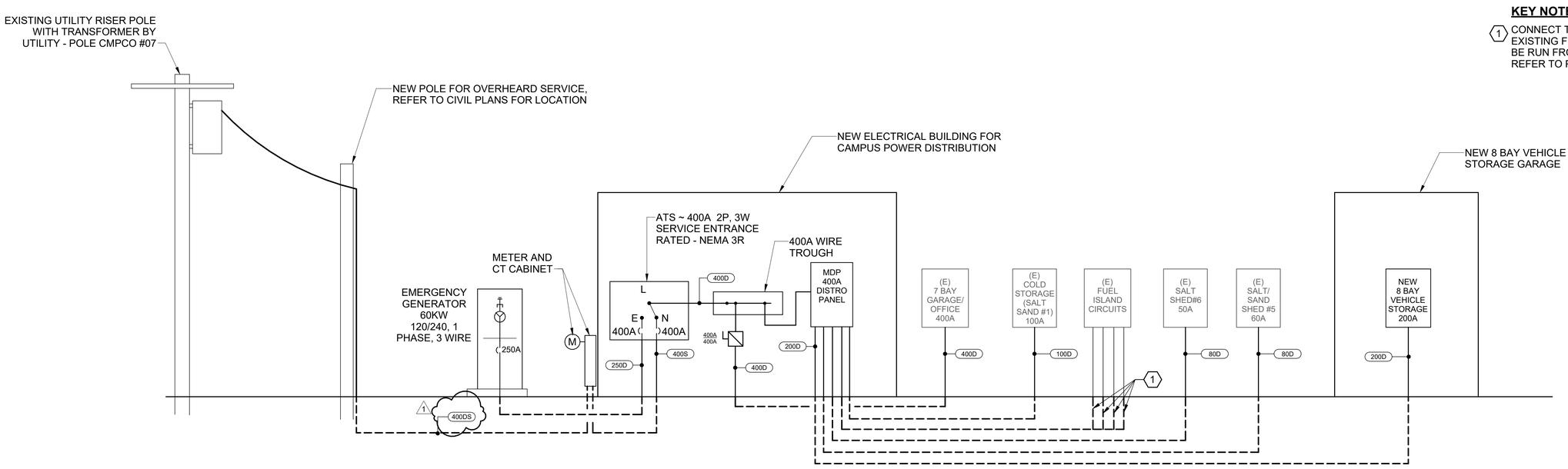
Location: **Volts:** 120/240 Single **A.I.C. Rating:** REFER TO STUDY
Supply From: **Phases:** 1 **Mains Type:** MCB
Mounting: Surface **Wires:** 3 **Bus Rating:** 400 A
MCB Rating: 400 A

Notes:

① REFEEDING EXISTING PANELS/CIRCUITS ACROSS THE SITE WITH NEW FEEDERS

CKT	Circuit Description	Trip Amps	Poles	A	B	Poles	Trip Amps	Circuit Description	CKT
1	(E) COLD STORAGE (SALT SAND #1) ①	100	2	0.0 0.0		2	50	(E) SALT SHED #6 ①	2
3					0.0 0.0				4
5	(E) SALT/SAND SHED #5 ①	60	2	0.0 0.0		2	20	GASOLINE SUB. (FUEL) ①	6
7					0.0 0.0				8
9	DISPENSER HEAD ①	20	1	0.0 0.0		2	20	DIESEL SUB.(FUEL) ①	10
11	PETROVEND PUMP CNTL ①	20	1		0.0 0.0				12
13	LIGHTING - SHED	20	1	0.1 0.5		1	20	Receptacles - SHED	14
15	GEN. START CIRCUIT	20	1		0.0 0.0	1	20	GEN. BATTERY CHARGER	16
17	GEN JACKET/STRIP HEAT	20	1	0.0 25.6		2	200	P1 PANEL	18
19	SPARE	20	1		0.0 22.5				20
21	SPARE	20	1	0.0 0.0		1	20	SPARE	22
23	SPARE	20	1		0.0 0.0	1	20	SPARE	24
25	SPARE	20	1	0.0 0.0		1	20	SPARE	26
27	SPARE	20	1		0.0 0.0	1	20	SPARE	28
29	SPARE	20	1	0.0 0.0		1	20	SPARE	30
31	SPARE	20	1		0.0 0.0	1	20	SPARE	32
33	SPARE	20	1	0.0 0.0		1	20	SPARE	34
35	Space	--	1		-- --	1	--	Space	36
37	Space	--	1	-- --		1	--	Space	38
39	Space	--	1		-- --	1	--	Space	40
41	Space	--	1	-- --		1	--	Space	42
			Total Load:	26.3 kW	22.5 kW				
			Total Amp:	219 A	187 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	15737 VA	100.00%	15737 VA		
Motor	9600 VA	125.00%	12000 VA	**Total Conn. Load:**	48.8 kW
Other	161 VA	100.00%	161 VA	**Total Est. Demand:**	52.0 kW
Lighting	3507 VA	125.00%	4383 VA	**Total Conn.:**	203 A
Power	9430 VA	100.00%	9430 VA	**Total Est. Demand:**	217 A
Receptacle	5400 VA	100.00%	5400 VA		
Heating	3528 VA	100.00%	3528 VA		



KEY NOTES:

1. CONNECT TO EXISTING UNDERGROUND CONDUIT RUNS TO EXISTING FUEL ISLAND EQUIPMENT. NEW FEEDERS SHALL BE RUN FROM FUEL EQUIPMENT AT ISLAND TO PANEL MDP. REFER TO PANEL MDP FOR CIRCUITING INFORMATION.

A1 POWER RISER DIAGRAM

NONE

Scale: 12" = 1'-0"

No.	Revision	By	Date
1	Addendum #3	SO	05/16/2025

Designed by: Anthony S. Davis, PE

STATE OF MAINE — BRIAN T. GARDNER No. 15506 — LICENSED PROFESSIONAL ENGINEER

	By	Date		By	Date
Designed:	BTG	04/25/2025	Checked:	BTG	04/25/2025
Drawn:	PMC	04/25/2025			

Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266

SO PROJ.NO.:2561-00178 CAD FILE:

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
POWER RISER DIAGRAM

SHEET NUMBER: EP500

CONTRACT: 2025.11