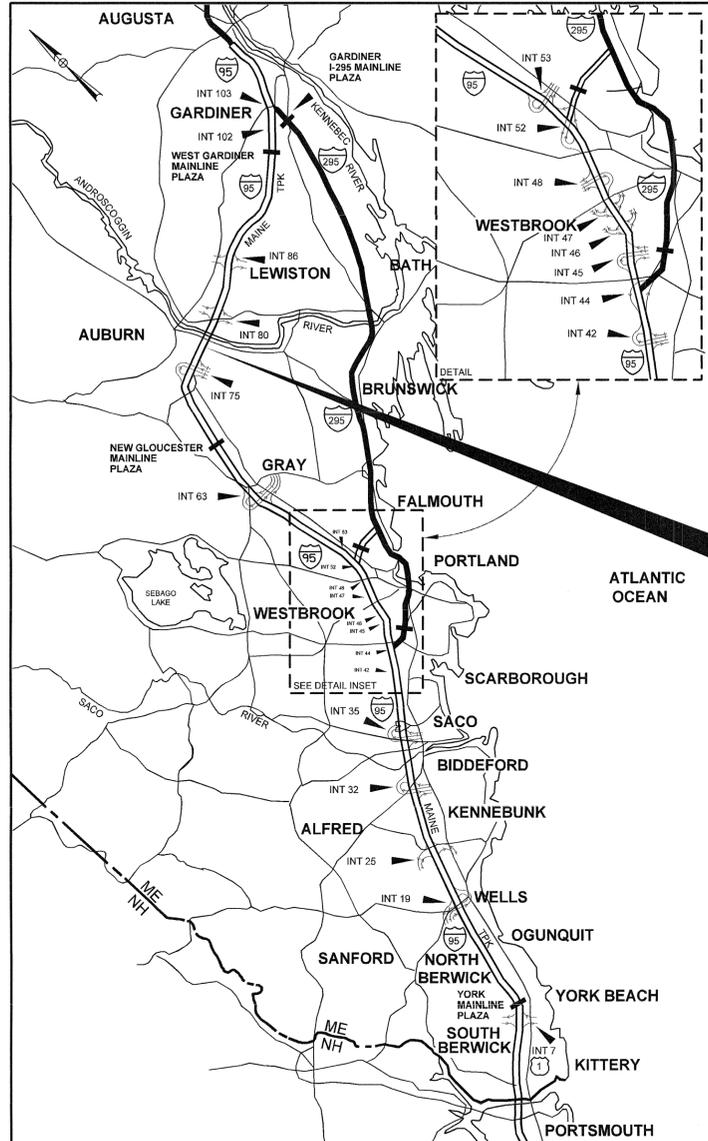


Date: 4/25/2025

Filename: 001_Title_Sheet.dgn



LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

MICHAEL J. CIANCHETTE, CHAIR
 JANE L. LINCOLN, VICE CHAIR
 THOMAS J. ZUKE, MEMBER
 ANDREW MCLEAN MEMBER
 NINA A. FISHER, MEMBER
 EMILY BECKER, MEMBER
 BRUCE A. VAN NOTE, MEMBER EX-OFFICIO

ANDRE J. BRIERE, EXECUTIVE DIRECTOR

CONTRACT 2025.11 AUBURN VEHICLE STORAGE GARAGE MILE 76.9

PAGE NO.	SHEET NO.	DESCRIPTION
1	C-000	TITLE SHEET
2	C-001	GENERAL NOTES
3	C-101	EXISTING CONDITIONS AND REMOVALS PLAN
4	C-102	SITE AND UTILITY PLAN
5	C-103	GRADING, DRAINAGE, EROSION CONTROL PLAN
6-10	C-401-405	DETAILS
11	C-406	BORING LOGS
12	C-407	LIMIT OF DISTURBANCE
13	A-0	ARCHITECTURAL COVER SHEET
14	A-1	CODE COMPLIANCE & FIRST FLOOR PLANS
15	A-2	ROOF PLAN & DETAILS
16	A-3	ELEVATIONS
17	A-4	BUILDING SECTIONS
18	A-5	WALL SECTIONS
19	A-6	DOOR, WINDOW & FINISH SCHEDULES
20	A-7	DETAILS
21	A-8	MAINTENANCE GARAGE LOUVER INFILL DETAILS AND ACCESSIBILITY DETAILS & NOTES
22	S-000	STRUCTURAL - GENERAL INFORMATION
23	SB-100	STRUCTURAL - FOUNDATION PLAN
24	SB-500	STRUCTURAL - FOUNDATION DETAILS - 1
25	SB-501	STRUCTURAL - FOUNDATION DETAILS - 2
26	P000	PLUMBING AND HVAC NOTES, LEGEND AND ABBREVIATIONS
27	PL100	SANITARY PIPING PLAN
28	PP100	DOMESTIC PIPING PLAN
29	MH100	MECHANICAL PLAN
30	E000	ELECTRICAL LEGEND
31	E001	ELECTRICAL GENERAL NOTES AND SCHEDULES
32	ES100	ELECTRICAL SITE PLAN
33	EL100	LIGHTING PLAN
34	EP100	POWER AND SYSTEMS PLAN
35	EP200	EXISTING OFFICE/MAINTENANCE BUILDING
36	EP500	POWER RISER DIAGRAM

CONTRACT 2025.11



Michael F. Hays, R.A.
 Grant-Hays Associates, Inc.
 4/25/2025

SHEETS A-0 TO A-8



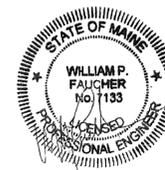
Brian T. Gardner, P.E.
 Allied Engineering
 A Salas O'Brien Company
 4/25/2025

SHEETS S-000 TO SB-501



Anthony S. Davis, P.E.
 Allied Engineering
 A Salas O'Brien Company
 4/25/2025

SHEETS P000 TO MH100



William P. Faucher, P.E.
 Allied Engineering
 A Salas O'Brien Company
 4/25/2025

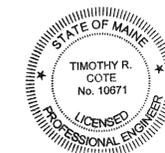
SHEETS E-000 TO EP500

APPROVED:
 MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATING OFFICER
 DATE: 4/29/25

Stephen R. Tartre
 STEPHEN R. TARTRE, P.E., - CHIEF ENGINEER/DIRECTOR OF ENGINEERING
 DATE: 4/29/25

John W. Cannell
 JOHN W. CANNELL, P.E. - DIRECTOR OF MAINTENANCE
 DATE: 4/30/25



Timothy R. Cote, P.E.
 VICE PRESIDENT | PROJECT DIRECTOR

Timothy R. Cote
 DATE: 4/28/2025

GENERAL

1. ALL WORK SHALL CONFORM TO THE MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS FOR HIGHWAYS AND BRIDGES (LATEST REVISION), THE MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL (LATEST REVISION) AND THE 2014 MAINEDOT STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS UNLESS OTHERWISE INCLUDED IN THESE PLANS.

2. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREAS AND FIELD TRAILER LOCATION TO THE RESIDENT.

3. ANY DAMAGE TO PAVEMENT, SLOPES, OR STRUCTURES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

4. LIMITED AS-BUILT PLANS FOR THE EXISTING BUILDINGS ARE AVAILABLE FROM THE AUTHORITY UPON REQUEST.

5. ALL PAVEMENT SHALL BE SAWCUT PRIOR TO REMOVAL. ALL EXISTING PAVEMENT AREAS SHOWN TO BE REMOVED SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION FOR MTA MAINTENANCE VEHICLES AND PERSONNEL.

6. CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND CADD FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, UTILITIES, DRAINAGE, FOUNDATIONS, WIRING, ETC.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADVANCING THE WORK IN A MANNER THAT ALLOWS THE MAINTENANCE YARD AND ALL OF ITS FACILITIES TO REMAIN OPERATIONAL DURING THE PROJECT. OPERATIONS THAT WILL IMPEDE MTA OPERATIONS SHALL BE COORDINATED A MINIMUM OF 14 DAYS IN ADVANCE OF THE WORK.

8. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE BIDDER'S AND CONTRACTOR'S USE. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION. THE AUTHORITY SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S AND CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS CONTAINED IN THE PLAN SET PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.

9. CLEARING LIMITS SHOWN ON THE PLANS ARE APPROXIMATE. FINAL CLEARING LIMITS WILL BE APPROVED BY THE RESIDENT. CLEARING WILL NOT BE PERMITTED IN THE MONTHS OF JUNE OR JULY.

10. RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

11. DUST CONTROL IS REQUIRED AND IS INCIDENTAL TO THE CONTRACT.

12. A MAXIMUM OF 3 FOOT CLEAR SPACE SHALL BE PERMITTED BETWEEN BOLLARDS IN FRONT OF THE PROPANE TANKS. BOLLARDS SHALL BE PLACED ON ALL SIDES THAT COULD BE IMPACTED BY VEHICLES.

13. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE THE AUTHORITY THREE HARD COPIES OF ALL O&M MANUALS ASSOCIATED WITH THE PROJECT AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT CONTAINING ALL O&M MANUALS IN A SINGLE FILE.

14. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE ONE HARD COPY AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT OF ALL APPROVED SUBMITTALS ASSOCIATED WITH THE PROJECT ORGANIZED BY WORK CATEGORY.

15. A HIGHWAY CLASS PAVEMENT WITH AN EIGHT TO TEN FOOT SCREED (CAT AP555E OR SIMILAR) WILL BE ALLOWED.

EARTHWORK

1. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.

2. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).

3. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6 INCHES IN FIELD AREAS AND 12 INCHES IN WOODED AREAS.

4. REMOVAL OF EXISTING PAVEMENT, WITHIN THE AREAS OF FULL DEPTH PAVEMENT AND FULL DEPTH RECONSTRUCTION, SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 5 INCHES.

5. GRANULAR BORROW SHALL BE USED IN THE AREAS SPECIFIED ON THE PLANS, AND TO BACKFILL AREAS OF MUCK EXCAVATION AND IN LOW WET AREAS TO 1' ABOVE THE WATER LEVEL OR OLD GROUND. GRANULAR BORROW USED TO FILL MUCK OR WET AREAS SHALL MEET THE REQUIREMENTS OF GRANULAR BORROW-UNDERWATER BACKFILL. MATERIALS EXCAVATED FROM ON SITE MEETING THE REQUIREMENTS OF GRANULAR BORROW OR GRANULAR BORROW-UNDERWATER BACKFILL SHALL BE REUSED ON SITE. EACH REQUIRED HANDLING OF THE MATERIAL APPROVED BY THE RESIDENT SHALL BE MEASURED FOR PAYMENT AS COMMON EXCAVATION. EACH HANDLING SHALL BE CONSIDERED TO INCLUDE THE OPERATIONS OF EXCAVATING, LOADING, TRANSPORTING, UNLOADING, AND DISPOSING OF EARTH OR ROCK MATERIAL.

6. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR THE REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.

7. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.

8. ALL SITE DISTURBANCE WILL REMAIN WITHIN THE GRADING LIMITS SHOWN ON PLANS. NO IMPACT TO WETLANDS ARE AUTHORIZED.

9. FOLLOWING APPROVAL OF THE EXCAVATION LIMITS, AND PRIOR TO THE PLACEMENT OF BACKFILL, THE EXISTING SUBGRADE SHALL BE PROOF COMPACTED AS FOLLOWS:

A) AREAS OF FOOTING EXCAVATION: PROOF COMPACT SUBGRADE WITH 5 PASSES OF A VIBRATORY COMPACTOR HAVING A STATIC WEIGHT OF AT LEAST 500 POUNDS.

B) AREAS OF SLAB EXCAVATION: PROOF COMPACT SUBGRADE TO AT LEAST 95 PERCENT OF ITS MAXIMUM DRY DENSITY.

10. PROOF COMPACTION SHALL BE CONSIDERED INCIDENTAL TO EARTHWORKS PAY ITEMS.

EROSION CONTROL

1. THE ANTICIPATED EROSION CONTROL DEVICE LOCATIONS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT UNDER THE APPROPRIATE BID ITEMS.

2. 4 INCH LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.

3. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS. SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER AREAS.

4. MULCH SHALL BE APPLIED IN AREAS SEEDED EXCEPT WHERE EROSION CONTROL BLANKET IS SPECIFIED.

5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE ENVIRONMENTAL PROTECTION BEST MANAGEMENT PRACTICES.

6. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE SEEDED WITH FINAL SEED WITHIN 30 DAYS.

7. TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND SLOPES 2:1 AND STEEPER FROM THE TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE UNLESS OTHERWISE SPECIFIED ON THE PLANS OR AS DESIGNATED BY THE RESIDENT.

8. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODIBLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED ON FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.

9. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.

10. PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND SEDIMENTATION BARRIERS.

11. WATER FROM DEWATERING SHALL BE PUMPED THROUGH A DIRT BAG (SEE DETAIL). DIRT BAG OUTLET LOCATION SHALL NOT BE WITHIN 50' OF AN EXISTING WETLAND. NO SEPARATE PAYMENT WILL BE MADE TO CONTRACTOR FOR PROVIDING THE DIRT BAG, IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

DRAINAGE

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

2. INLETS AND OUTLETS OF ALL CULVERTS AND DRAIN OUTLETS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

3. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL.

4. ONE GREEN DELINEATOR POST SHALL BE INSTALLED AT ALL UNDERDRAIN AND STORM DRAIN OUTLETS.

UTILITIES

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM EXISTING PLANS AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF WORK. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.

2. THE CONTRACTOR SHALL NOTIFY ALL NON-MEMBERS THROUGH WWW.OKTODIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL NON-MEMBER NOTIFICATIONS WITHIN 24 HOURS OF THEIR RELEASE.

3. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 CALENDAR DAYS PRIOR TO SUBMITTING ANY UTILITY LOCATE REQUESTS AS NOTED ABOVE SO THAT THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES.

4. FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE THE CONTRACTOR WILL GPS LOCATE ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR, ACTING AS THE AUTHORITY'S THIRD-PARTY LOCATOR, SHALL BE RESPONSIBLE FOR REMARKING ALL MAINE TURNPIKE FACILITIES WHEN A DIG SAFE UTILITY IS CALLED FOR THE PROJECT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

5. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. EACH UTILITY WILL NEED TO BE NOTIFIED A MINIMUM OF 10 DAYS PRIOR TO ANY WORK BEING DONE TO THEIR FACILITY.

6. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
THE MAINE TURNPIKE AUTHORITY
CENTRAL MAINE POWER COMPANY

7. CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION AS APPROVED BY THE UTILITY OWNERS. SEE SPECIFICATIONS FOR REQUIRED UTILITY COORDINATION.

8. EXCEPT AS ALLOWED IN THE PROJECT SPECIFICATIONS OR APPROVED BY THE RESIDENT, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES.

9. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE THEM AT HIS OWN EXPENSE.

10. DURING CONSTRUCTION, THE PROPANE TANKS SHALL BE PROTECTED AT ALL TIMES.

11. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND CONSTRUCTION DRAWINGS FOR THE CONCRETE PROPANE TANK PAD, GENERATOR PAD, GENERATOR BUILDING PAD, AND BUILDING PAD IN ACCORDANCE WITH SPECIAL PROVISION 502.

12. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EMERGENCY BACKUP POWER AND WATER SERVICES ON SITE DURING CONSTRUCTION. SHORT SERVICE OUTAGES ARE PERMITTED. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

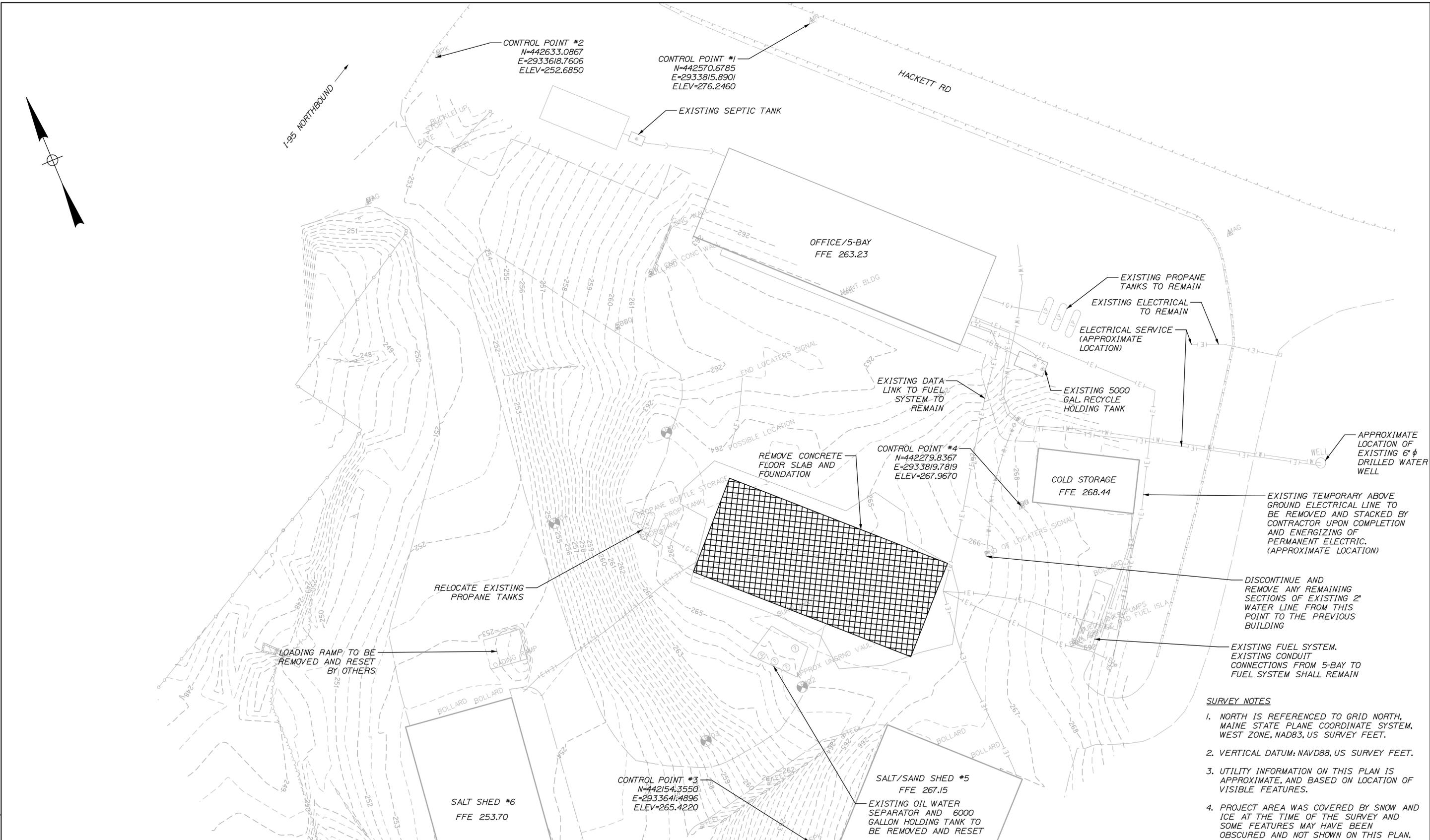
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Filename: 002_General Notes.dgn

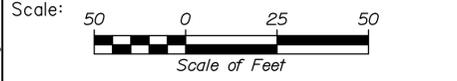
Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		AUBURN VEHICLE STORAGE GARAGE GENERAL NOTES	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.				SHEET NUMBER: C-001	
				By	Date	By	Date	CONTRACT: 2025.11	
				Designed	PEM 04\25	Checked	DAM 04\25	2 OF 36	
				Drawn	PEM 04\25	In Charge of	TRC 04\25		
						MTA PROJECT MANAGER: Brian Taddeo, P.E.			

Date: 4/30/2025

Filename: 003_Existing Conditions.dgn



- SURVEY NOTES**
1. NORTH IS REFERENCED TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83, US SURVEY FEET.
 2. VERTICAL DATUM: NAVD88, US SURVEY FEET.
 3. UTILITY INFORMATION ON THIS PLAN IS APPROXIMATE, AND BASED ON LOCATION OF VISIBLE FEATURES.
 4. PROJECT AREA WAS COVERED BY SNOW AND ICE AT THE TIME OF THE SURVEY AND SOME FEATURES MAY HAVE BEEN OBSCURED AND NOT SHOWN ON THIS PLAN.



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	PEM	04\25	Checked	DAM	04\25
Drawn	PEM	04\25	In Charge of	TRC	04\25

HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
 TEL (207) 774-5155
 FAX (207) 228-0909

**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE

EXISTING CONDITIONS AND REMOVALS PLAN

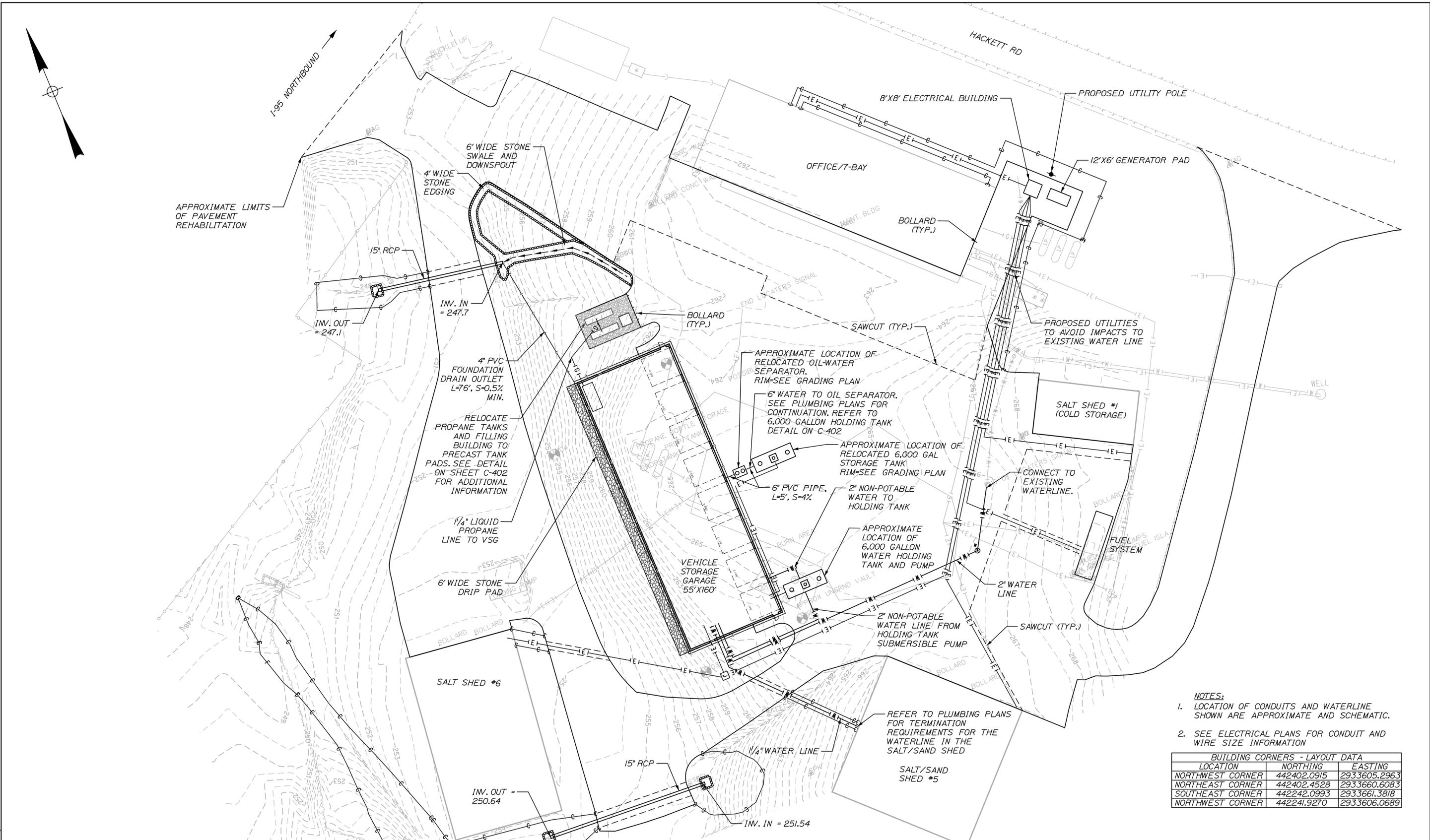
SHEET NUMBER: C-101

CONTRACT: 2025.11

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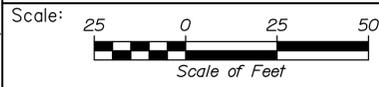
Date: 4/30/2025

Filename: 004_Site&UtilityPlan.dgn



- NOTES:**
1. LOCATION OF CONDUITS AND WATERLINE SHOWN ARE APPROXIMATE AND SCHEMATIC.
 2. SEE ELECTRICAL PLANS FOR CONDUIT AND WIRE SIZE INFORMATION

BUILDING CORNERS - LAYOUT DATA		
LOCATION	NORTHING	EASTING
NORTHWEST CORNER	442402.0915	2933605.2963
NORTHEAST CORNER	442402.4528	2933660.6083
SOUTHEAST CORNER	442242.0993	2933661.3818
NORTHWEST CORNER	442241.9270	2933606.0689



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN VEHICLE STORAGE GARAGE

SITE & UTILITY PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.			
Designed	PEM	04\25	Checked DAM 04\25
Drawn	PEM	04\25	In Charge of TRC 04\25

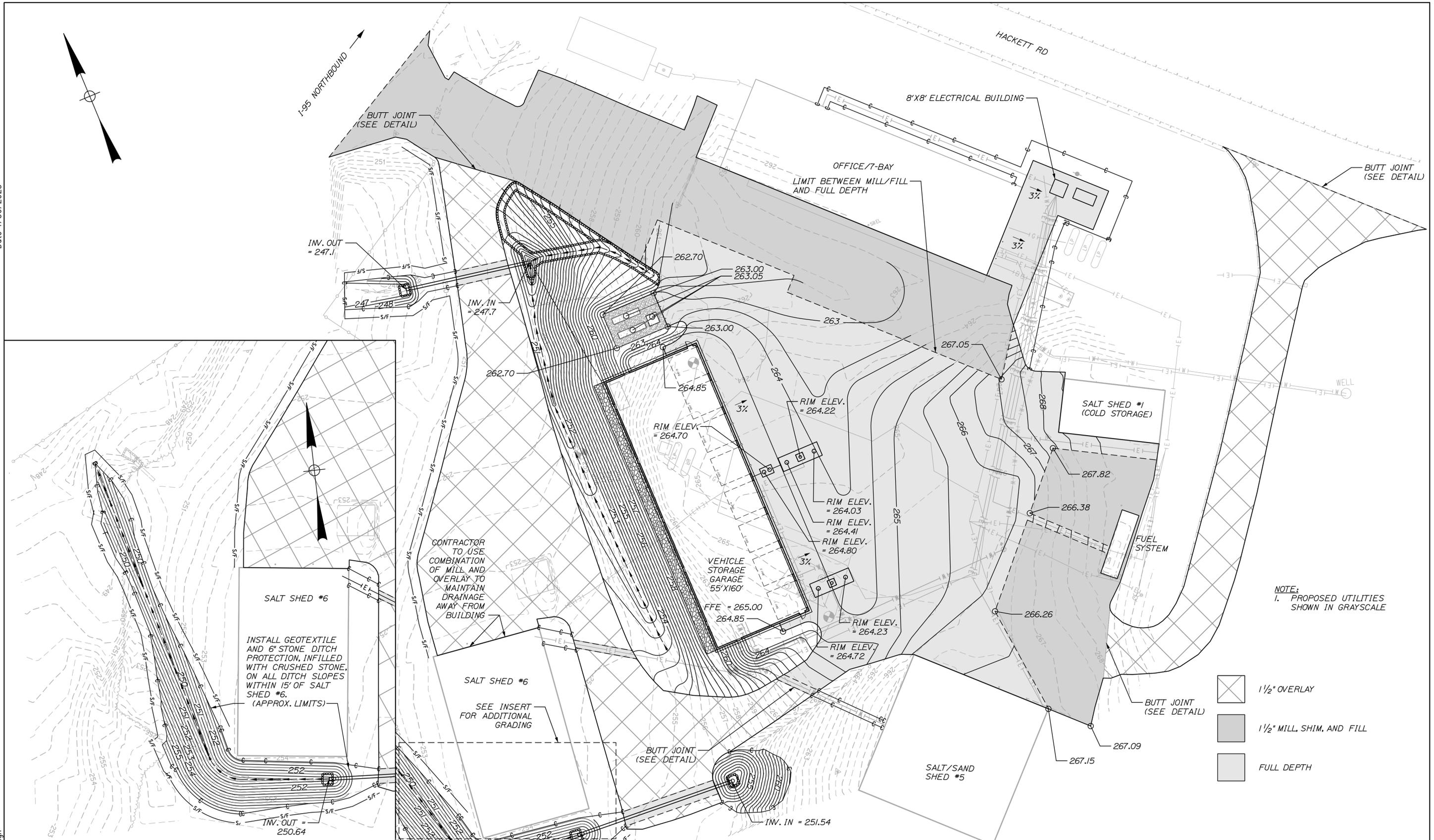
MTA PROJECT MANAGER: Brian Taddeo, P.E.

CONTRACT: 2025.11

SHEET NUMBER: C-102

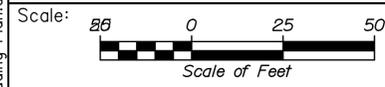
4 OF 36

Date: 4/30/2025



NOTE:
1. PROPOSED UTILITIES SHOWN IN GRAYSCALE

-  1/2" OVERLAY
-  1/2" MILL, SHIM, AND FILL
-  FULL DEPTH



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN VEHICLE STORAGE GARAGE

GRADING, DRAINAGE, &
EROSION CONTROL PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04\25	Checked	DAM	04\25
Drawn	PEM	04\25	In Charge of	TRC	04\25

MTA PROJECT MANAGER: Brian Taddeo, P.E.

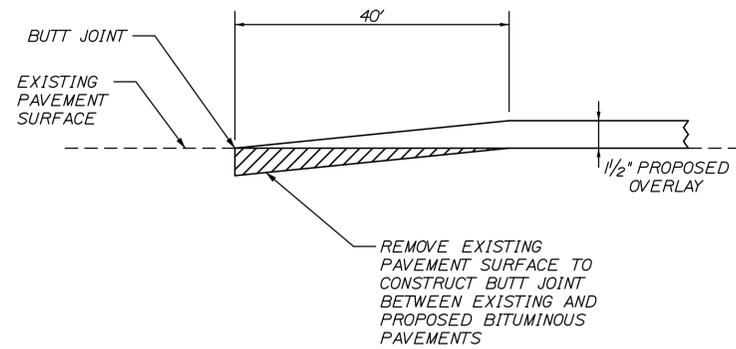
CONTRACT: 2025.11

SHEET NUMBER: C-103

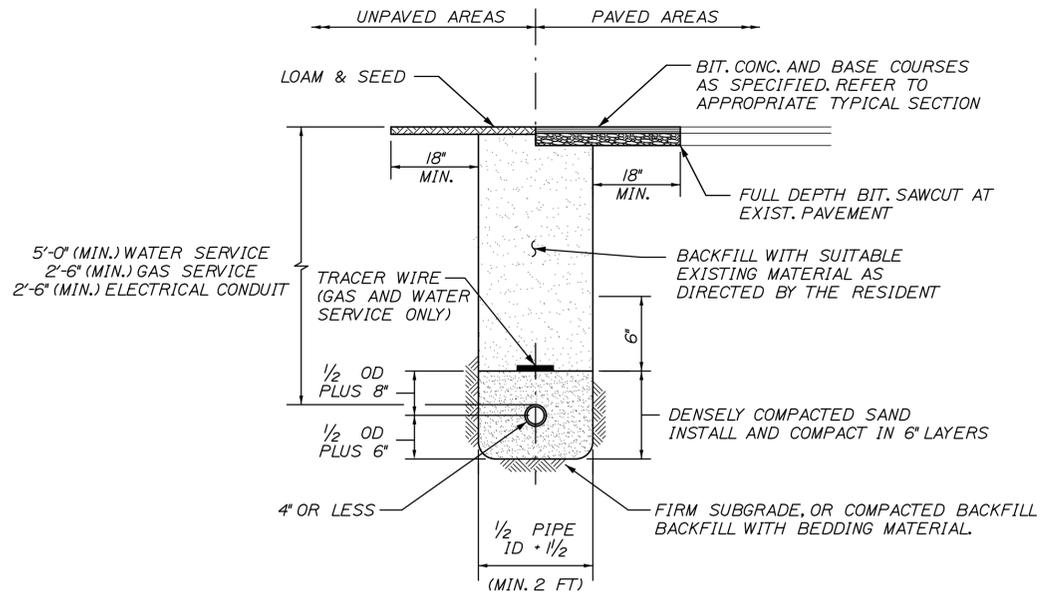
5 OF 36

Filename: 005_Grading Plan.dgn

Date: 4/30/2025

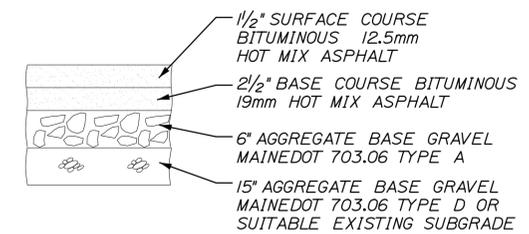


BUTT JOINT DETAIL
N.T.S.

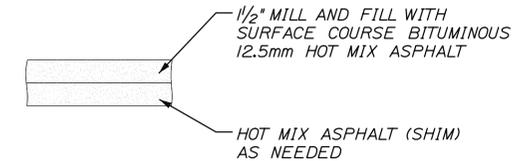


STANDARD PIPE/WATER LINE TRENCH DETAIL
N.T.S.

- NOTES:**
- BEDDING SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY. USE HAND TAMPERS OR VIBRATORY COMPACTORS.
 - CONTRACTOR SHALL SHORE TRENCH SIDES WHEN REQUIRED OR AS DIRECTED BY THE RESIDENT.
 - CONTRACTOR TO INSTALL TRACER WIRE OVER PIPE.
 - ADJACENT CONDUITS/PIPES SHOULD BE SEPARATED HORIZONTALLY BY A MINIMUM OF 6\".
 - SEE UNDERDRAIN TRENCH DETAIL FOR UNDERDRAIN AND DRAIN OUTLET TRENCH SECTION



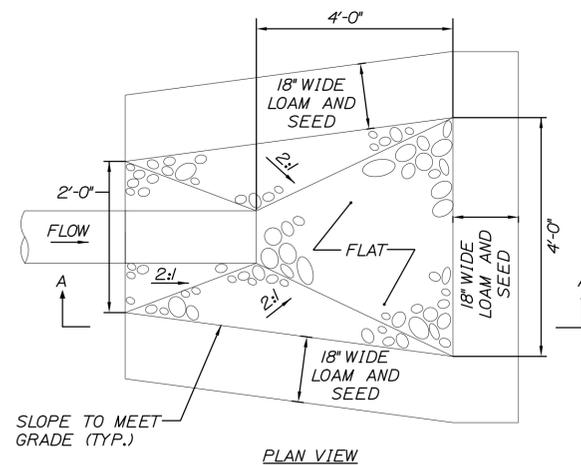
FULL DEPTH



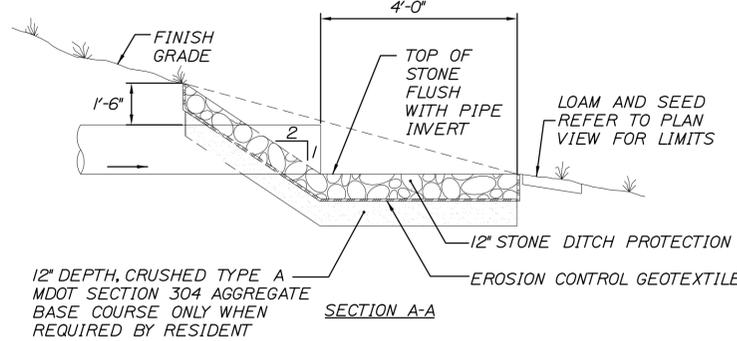
MILL AND FILL

BITUMINOUS PAVEMENT SECTION
NOT TO SCALE

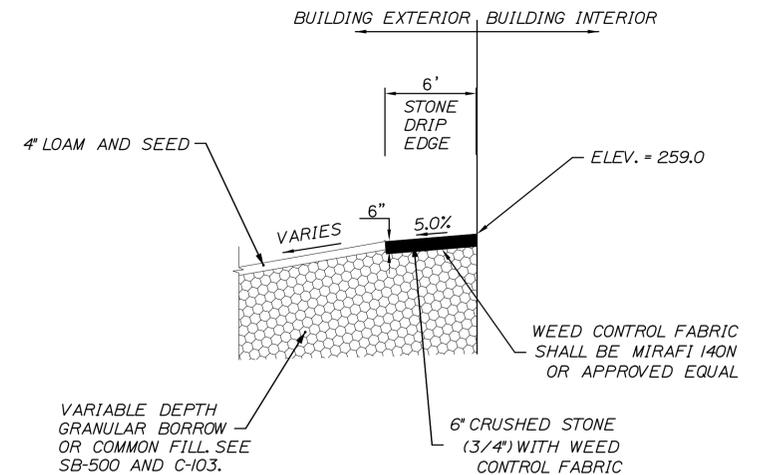
- NOTES:**
- COMPACT SUBGRADE TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - IN AREAS OF PROPOSED PAVEMENT, OUTSIDE THE LIMITS OF EXISTING PAVEMENT, THE CONTRACTOR SHALL PROVIDE FULL DEPTH GRAVEL CONSTRUCTION.
 - WITHIN LIMITS OF EXISTING PAVEMENT, AND AS DIRECTED BY THE RESIDENT, THE CONTRACTOR SHALL NOT REMOVE AND REPLACE EXISTING SUBBASE GRAVEL THAT MEETS REQUIREMENTS OF TYPE D GRAVEL. FOLLOWING ACCEPTANCE OF THE SUBBASE MATERIAL THE CONTRACTOR SHALL SHIM THE SUBBASE LAYER AS REQUIRED TO ALLOW FOR THE SPECIFIED PAYMENT THICKNESS. USING AGGREGATE BASE COURSE, TYPE A, THE CONTRACTOR WILL BE PAID BASED ON THE ACTUAL QUANTITY OF MATERIAL REMOVED AND REPLACED.
 - PAVEMENT MILLING SHALL BE VARIABLE DEPTH IN MILL AND FILL AREAS.



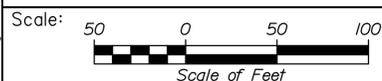
PLAN VIEW



DRAIN AND CULVERT OUTLET APRON
NOT TO SCALE



STONE DRIP EDGE DETAIL
NOT TO SCALE



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04\25	Checked	DAM	04\25
Drawn	PEM	04\25	In Charge of	TRC	04\25

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

AUBURN VEHICLE STORAGE GARAGE

DETAILS SHEET 1

MTA PROJECT MANAGER: Brian Taddeo, P.E.

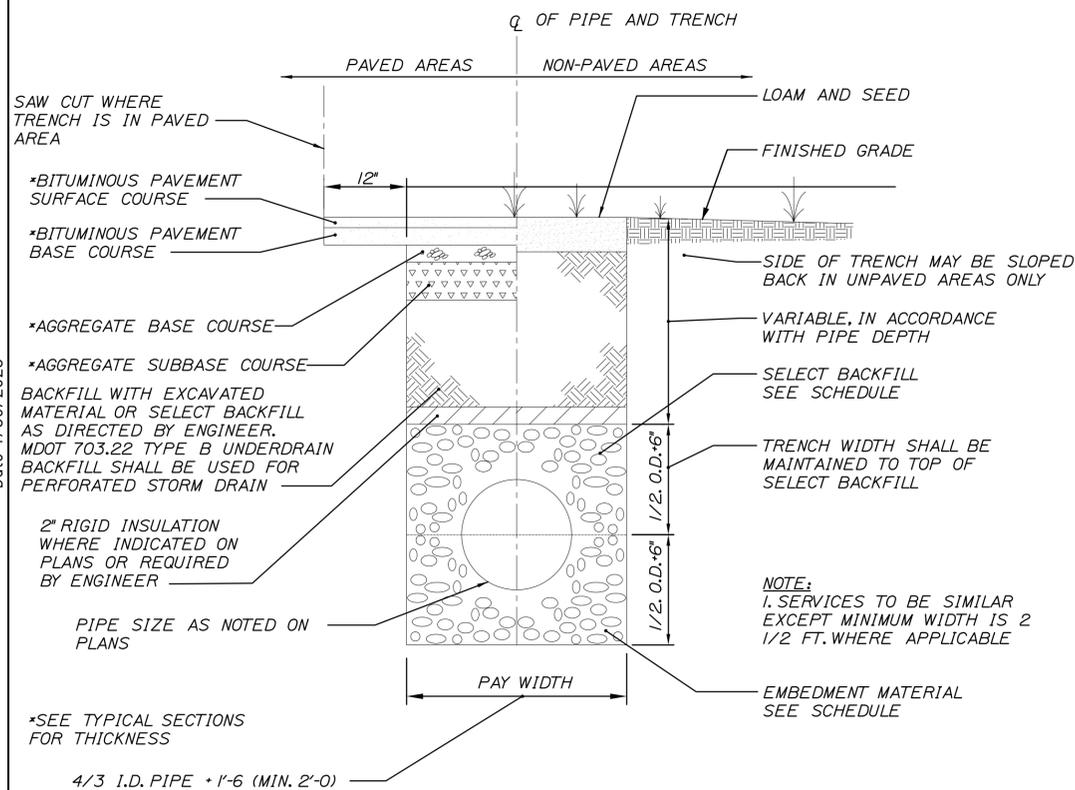
CONTRACT: 2025.11

SHEET NUMBER: C-401

6 OF 36

Filename: 006_Details1.dgn

Date: 4/30/2025



4/3 I.D. PIPE • 1'-6" (MIN. 2'-0")

SCHEDULE OF TRENCH BACKFILL		
TYPE OF PIPE	EMBEDMENT MATERIAL	SELECT BACKFILL
4" PVC PIPE (FOUNDATION DRAIN/ EFFLUENT DRAIN)	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL
PERFORATED PVC-SDR35 HDPE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE

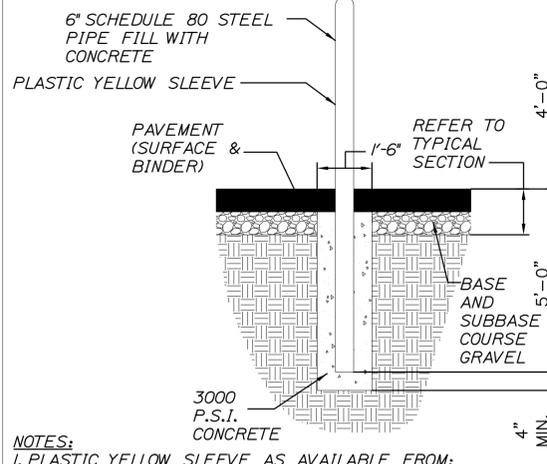
MINIMUM COVER
2'-6" PIPE DRAIN (1)

(1) COVER BETWEEN 2'-6" AND 3' SHALL INCLUDE 4" RIGID INSULATION. COVER BETWEEN 3' AND 4' SHALL INCLUDE 2" RIGID INSULATION.

UNDERDRAIN TRENCH DETAIL
NOT TO SCALE

NOTES:
1. BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. INSTALL WARNING TAPE DIRECTLY ABOVE UTILITIES, 12" BELOW FINISH GRADE.



NOTES:
1. PLASTIC YELLOW SLEEVE AS AVAILABLE FROM:

IDEAL SHIELD, LLC
DETROIT, MICHIGAN
(313) 842-7290

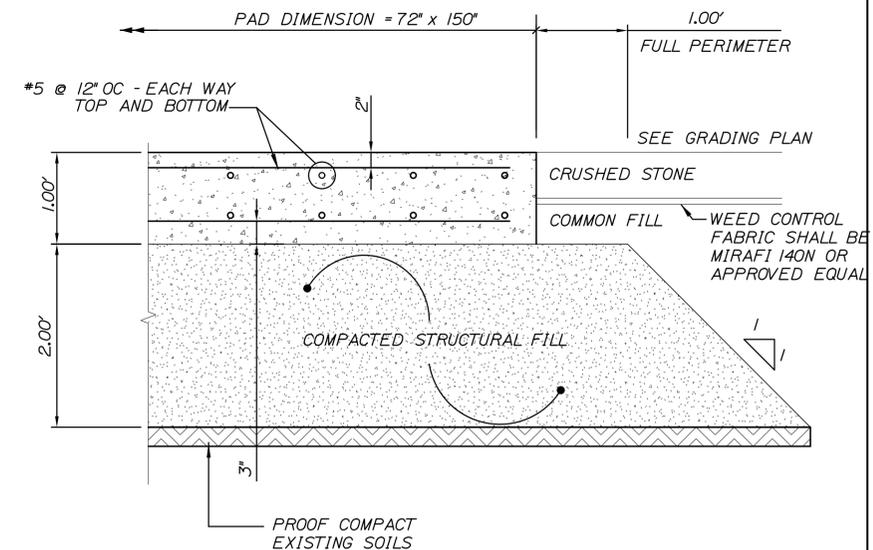
LIBERTY EQUIPMENT SALES
HOUSTON, TEXAS
(281) 987-8708
(888) 987-8708

OR ENGINEER APPROVED EQUIVALENT.

2. PAYMENT FOR SITE BOLLARD INSTALLATION SHALL BE MADE UNDER ITEM 832.41 TYPE A STEEL SITE BOLLARD.

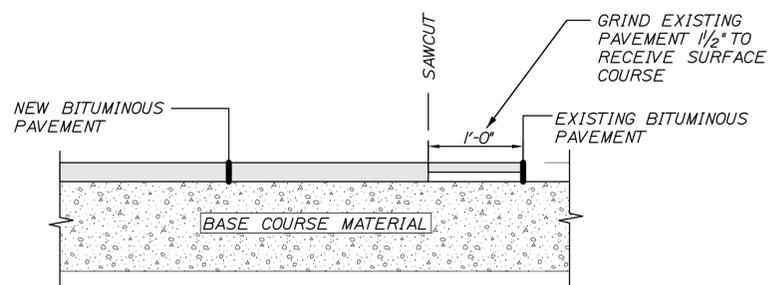
3. REFER TO DETAIL A4 ON SHEET SB-501 FOR DETAILS ON BUILDING BOLLARDS AT FRONT OF PROPOSED 8-BAY. PAYMENT FOR BUILDING BOLLARDS IS INCIDENTAL TO ITEM 800.01.

SITE BOLLARD DETAIL
NOT TO SCALE

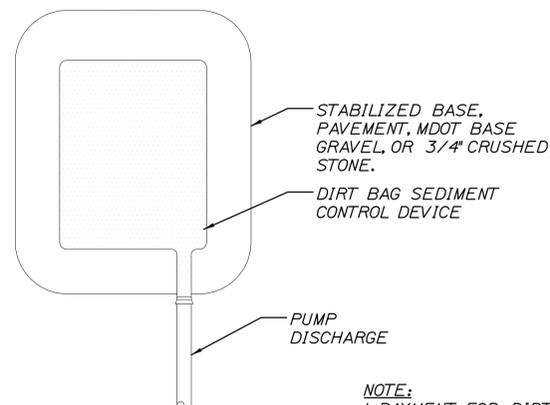


NOTES:
1) INSTALL CRUSHED STONE AROUND UNPAVED PERIMETER OF GENERATOR PAD. SEE ABOVE GROUND PROPANE GAS TANK FARM DETAIL.

GENERATOR AND ELECTRIC BUILDING PAD
NOT TO SCALE

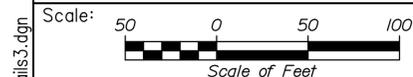


PAVEMENT SAWCUT
NOT TO SCALE



DIRT BAG PUMP OUTLET
NOT TO SCALE

NOTE:
1. PAYMENT FOR DIRT BAG SEDIMENT CONTROL DEVICE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN VEHICLE STORAGE GARAGE

DETAILS SHEET 3

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04\25	Checked	DAM	04\25
Drawn	PEM	04\25	In Charge of	TRC	04\25

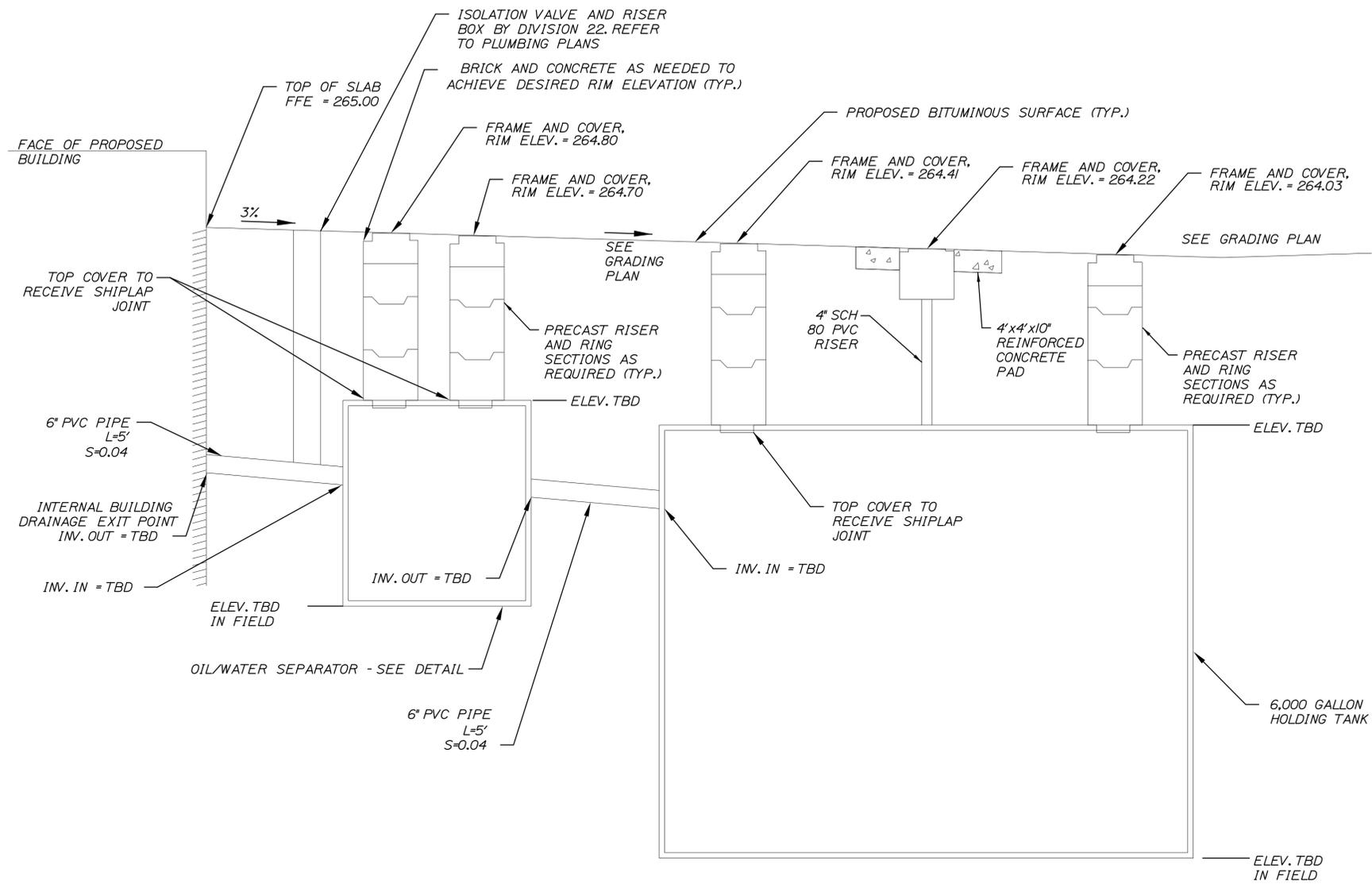
MTA PROJECT MANAGER: Brian Taddeo, P.E.

CONTRACT: 2025.11

SHEET NUMBER: C-403

8 OF 36

Date: 4/30/2025



REMOVE AND RESET HOLDING TANK AND OIL/WATER SEPARATOR DETAIL
NOT TO SCALE

NOTE:
DESIGN SHOWN IS FOR ILLUSTRATIVE PURPOSES. REFER TO SPECIAL PROVISION 604 FOR ADDITIONAL INFORMATION.



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04\25	Checked	DAM	04\25
Drawn	PEM	04\25	In Charge of	TRC	04\25

HNTB CORPORATION
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE

DETAILS SHEET 4

SHEET NUMBER: C-404
9 OF 36

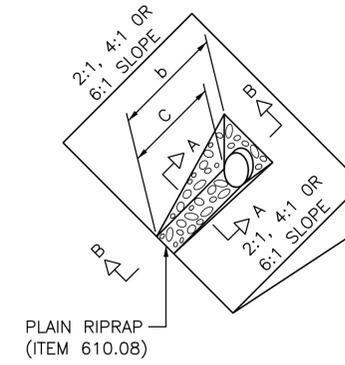
CONTRACT: 2025.11

Filename: 009_Details4.dgn

Date: 4/30/2025

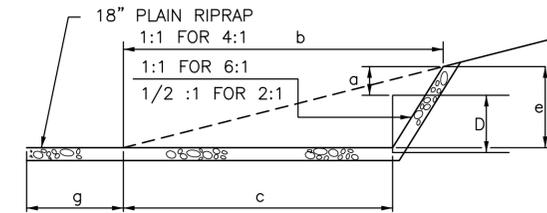
DIMENSIONS FOR SLOPE OF 2:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
21"	1.00	5.50	4.13	2.75	8.25	2.88	1.50	2.58
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33
36"	1.00	8.00	6.00	4.00	12.00	6.00	1.50	5.75
42"	1.00	9.00	6.75	4.50	13.50	7.25	1.50	7.37
48"	1.00	10.00	7.50	5.00	15.00	8.50	1.50	9.18
54"	1.00	11.00	8.25	5.50	16.50	9.75	1.50	11.19
60"	1.00	12.00	9.00	6.00	18.00	11.00	1.50	13.40
66"	1.00	13.00	9.75	6.50	19.50	12.25	1.50	15.81
72"	1.00	14.00	10.50	7.00	21.00	13.50	1.50	18.41
84"	1.00	16.00	12.00	8.00	24.00	16.00	1.50	24.22



DIMENSIONS FOR SLOPE OF 4:1

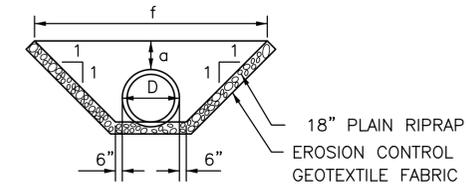
D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	1.50	2.20
15"	1.00	9.00	6.75	2.25	6.75	0.00	1.50	2.80
18"	1.00	10.00	7.50	2.50	7.50	0.00	1.50	3.40
21"	1.00	11.00	8.25	2.75	8.25	0.00	1.50	4.10
24"	1.00	12.00	9.00	3.00	9.00	0.00	1.50	4.86
30"	1.00	14.00	10.50	3.50	10.50	0.00	1.50	6.58
36"	1.00	16.00	12.00	4.00	12.00	0.00	1.50	8.56
42"	1.00	18.00	13.50	4.50	13.50	0.50	1.50	10.92
48"	1.00	20.00	15.00	5.00	15.00	1.00	1.50	13.57
54"	1.00	22.00	16.50	5.50	16.50	1.50	1.50	16.50
60"	1.00	24.00	18.00	6.00	18.00	2.00	1.50	19.72
66"	1.00	26.00	19.50	6.50	19.50	2.50	1.50	23.22
72"	1.00	28.00	21.00	7.00	21.00	3.00	1.50	27.01
84"	1.00	32.00	24.00	8.00	24.00	4.00	1.50	35.45



SECTION B-B

DIMENSIONS FOR SLOPE OF 6:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	1.50	2.30
15"	0.50	10.50	8.75	1.75	5.50	0.00	1.50	2.93
18"	0.50	12.00	10.00	2.00	6.50	0.00	1.50	3.57
21"	0.50	13.50	11.25	2.25	7.25	0.00	1.50	4.46
24"	0.50	15.00	12.50	2.50	8.00	0.00	1.50	5.44
30"	0.50	18.00	15.00	3.00	9.50	0.00	1.50	7.71
36"	0.50	21.00	17.50	3.50	11.00	0.00	1.50	10.37
42"	0.50	24.00	20.00	4.00	12.50	0.00	1.50	13.42
48"	0.50	27.00	22.50	4.50	14.00	0.00	1.50	16.87
54"	0.50	30.00	25.00	5.00	15.50	0.00	1.50	20.70
60"	0.50	33.00	27.50	5.50	17.00	0.00	1.50	24.93
66"	0.50	36.00	30.00	6.00	18.50	0.00	1.50	29.55
72"	0.50	39.00	32.50	6.50	20.00	0.00	1.50	34.56
84"	0.50	45.00	37.50	7.50	23.00	0.00	1.50	45.76

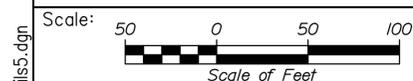


SECTION A-A

ROADWAY CULVERT END SLOPE TREATMENT

NOTES:

1. THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
2. STONE QUANTITIES ARE FOR ONE END OF THE PIPE.



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR MEMORIAL HIGHWAY

AUBURN VEHICLE STORAGE GARAGE

DETAILS SHEET 5

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.					
	By	Date		By	Date
Designed	PEM	04\25	Checked	DAM	04\25
Drawn	PEM	04\25	In Charge of	TRC	04\25

MTA PROJECT MANAGER: Brian Taddeo, P.E.

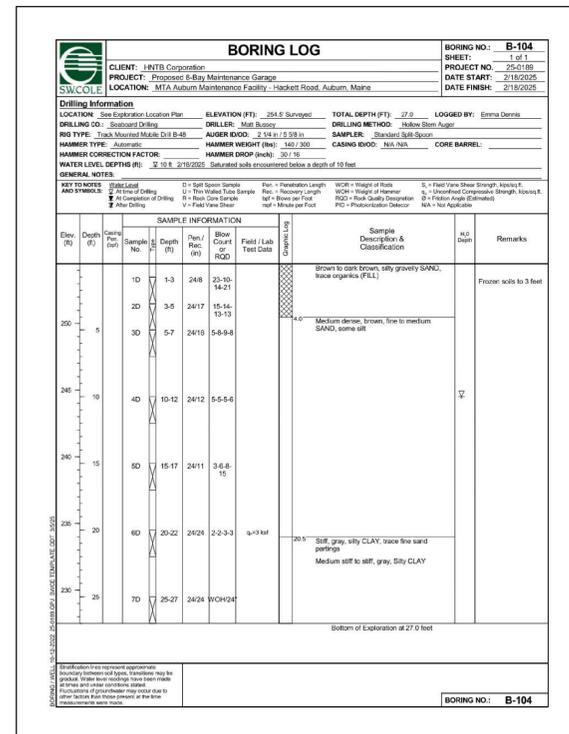
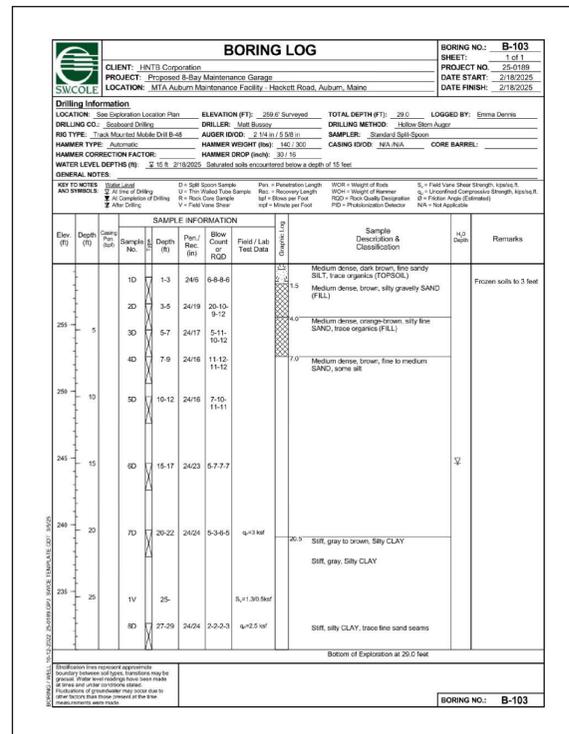
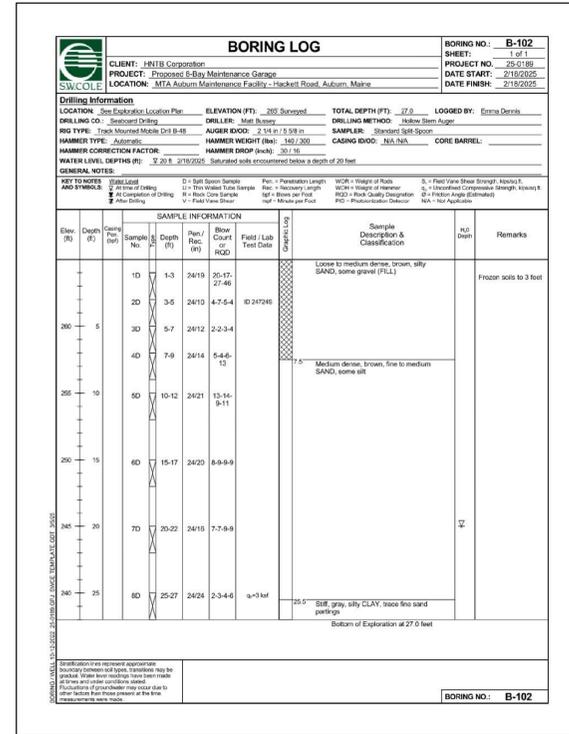
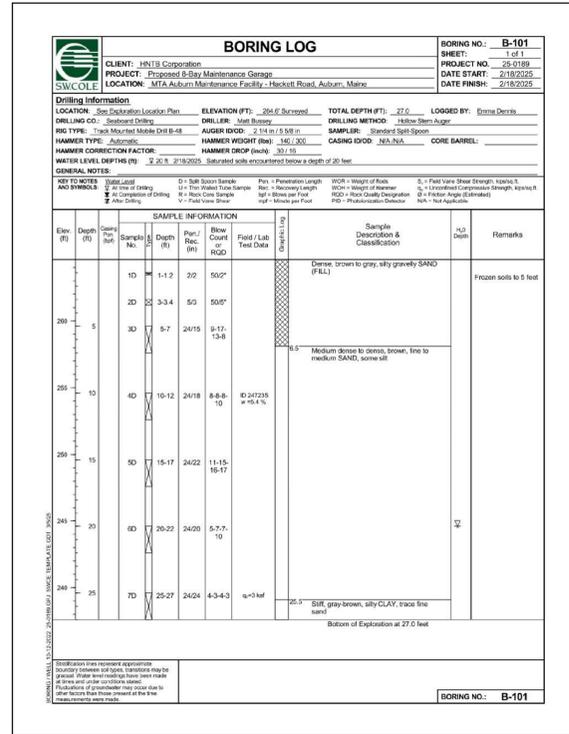
CONTRACT: 2025.11

SHEET NUMBER: C-405

10 OF 36

Filename: 010_Details5.dgn

Date: 4/30/2025



NOTE:
1. SEE GEOTECHNICAL REPORT FOR MORE DETAILS.

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.			
By	Date	By	Date
Designed	PEM 04\25	Checked	DAM 04\25
Drawn	PEM 04\25	In Charge of	TRC 04\25



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian Taddeo, P.E.

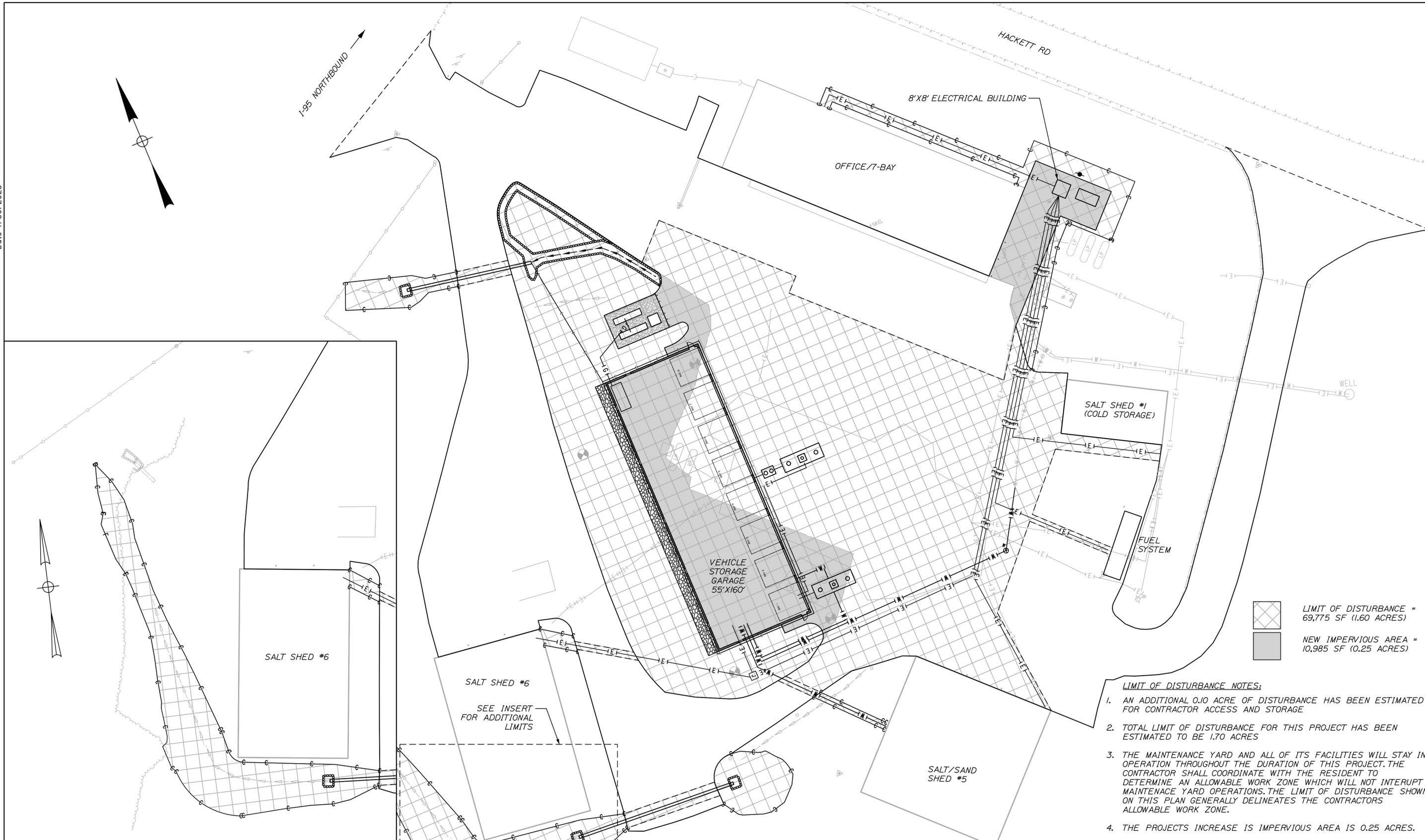
AUBURN VEHICLE STORAGE GARAGE

BORING LOGS

CONTRACT: 2025.11 SHEET NUMBER: C-406 11 OF 36

Filename: 011_Boring_Logs.dgn

Date: 4/30/2025



 LIMIT OF DISTURBANCE = 69,775 SF (1.60 ACRES)
 NEW IMPERVIOUS AREA = 10,985 SF (0.25 ACRES)

- LIMIT OF DISTURBANCE NOTES:**
1. AN ADDITIONAL 0.10 ACRE OF DISTURBANCE HAS BEEN ESTIMATED FOR CONTRACTOR ACCESS AND STORAGE
 2. TOTAL LIMIT OF DISTURBANCE FOR THIS PROJECT HAS BEEN ESTIMATED TO BE 1.70 ACRES
 3. THE MAINTENANCE YARD AND ALL OF ITS FACILITIES WILL STAY IN OPERATION THROUGHOUT THE DURATION OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT TO DETERMINE AN ALLOWABLE WORK ZONE WHICH WILL NOT INTERRUPT MAINTENANCE YARD OPERATIONS. THE LIMIT OF DISTURBANCE SHOWN ON THIS PLAN GENERALLY DELINEATES THE CONTRACTORS ALLOWABLE WORK ZONE.
 4. THE PROJECTS INCREASE IN IMPERVIOUS AREA IS 0.25 ACRES.

Scale: 25 0 25 50
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	PEM	04\25	Checked	DAM	04\25
Drawn	PEM	04\25	In Charge of	TRC	04\25

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE

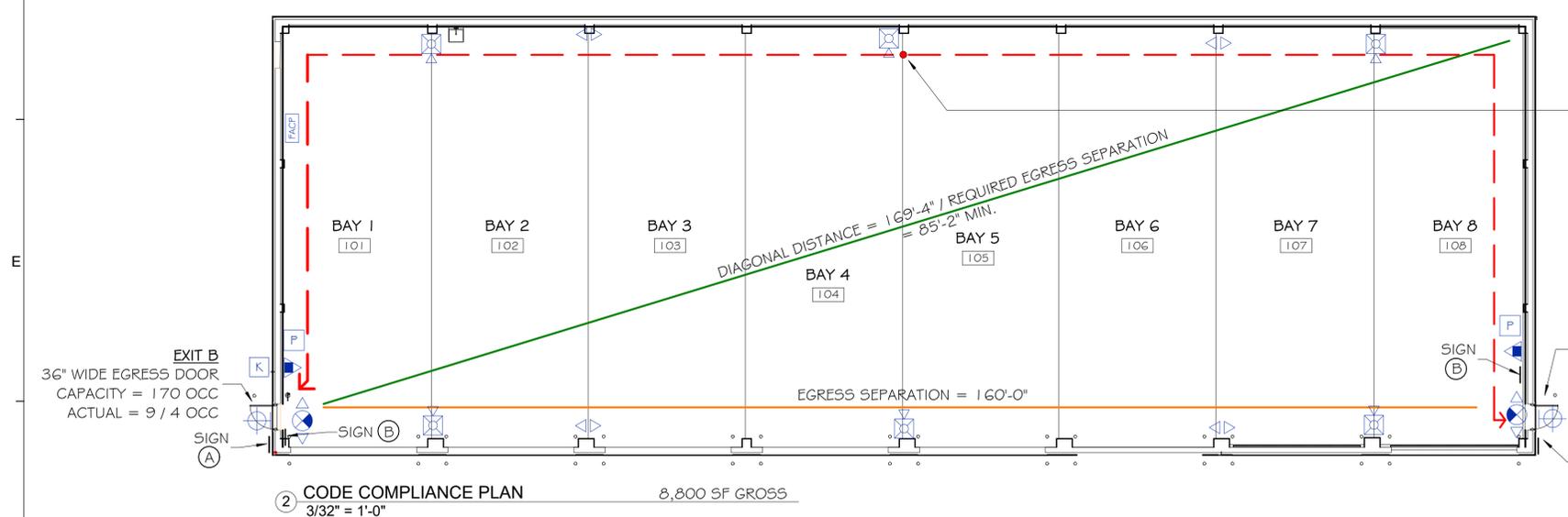
LIMIT OF DISTURBANCE

SHEET NUMBER: C-407

CONTRACT: 2025.11

12 OF 36

Filename: 012_LOD_Plan.dgn



EGRESS SYMBOLS LEGEND

	DIAGONAL DISTANCE
	EGRESS SEPARATION
	EGRESS PATH

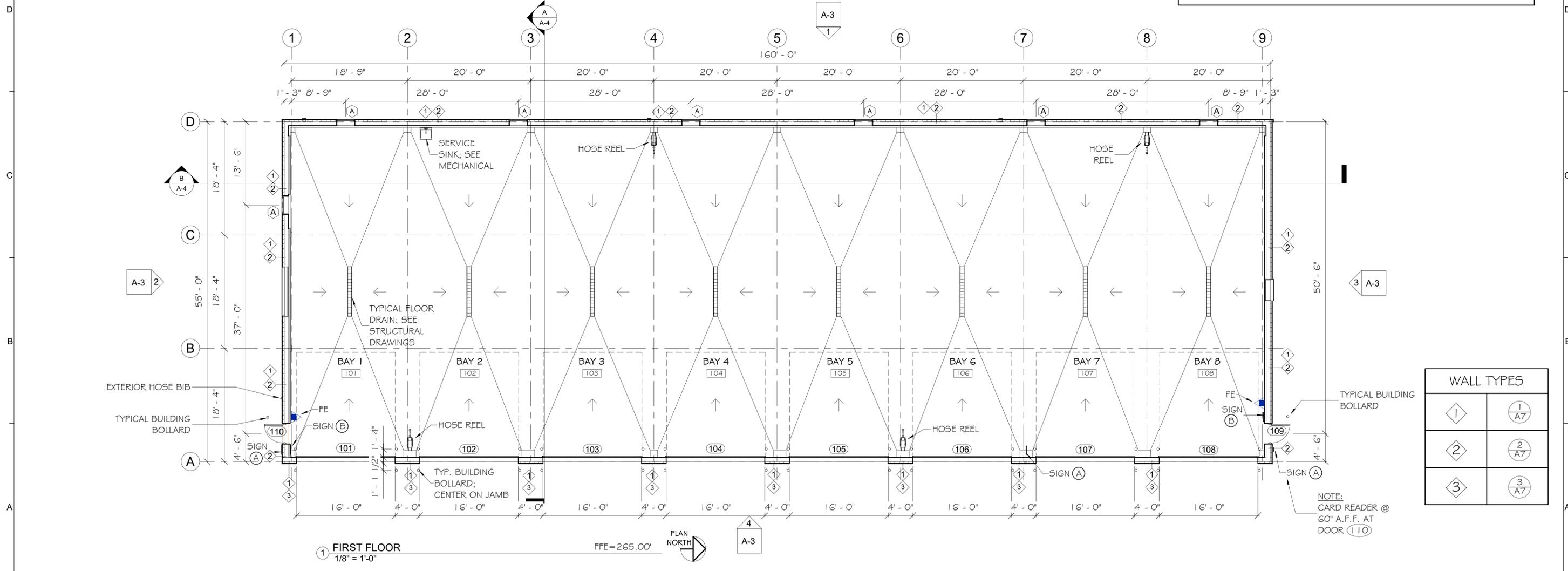
NFPA LEGEND

SYMBOL	DESCRIPTION
	EXIT LIGHT
	ABC FIRE EXTINGUISHER w/ BRACKET
	EMERGENCY LIGHT
	EMERGENCY / EXIT LIGHT
	EXTERIOR EMERGENCY LIGHT
	ALARM PULL STATION
	HORN/ STROBE UNIT
	KNOX BOX
	ALARM PANEL

OCCUPANT LOADS

IBC 2021	18
NFPA 2021	8 (MP)

- NOTES**
- SEE SHEET A-8 FOR ACCESSIBILITY DETAILS & NOTES.
 - SEE SHEET A-8 FOR ADA SIGNAGE.
 - SEE SHEET A-8 ACCESSIBILITY DETAILS AND NOTES FOR MOUNTING HEIGHTS OF LIFE SAFETY DEVICES.



Scale: As indicated

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

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

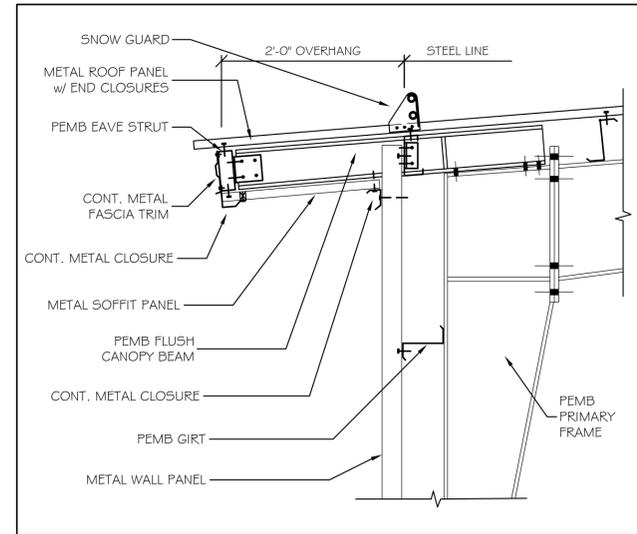
CODE COMPLIANCE & FIRST FLOOR PLANS

CONTRACT: 2025.11

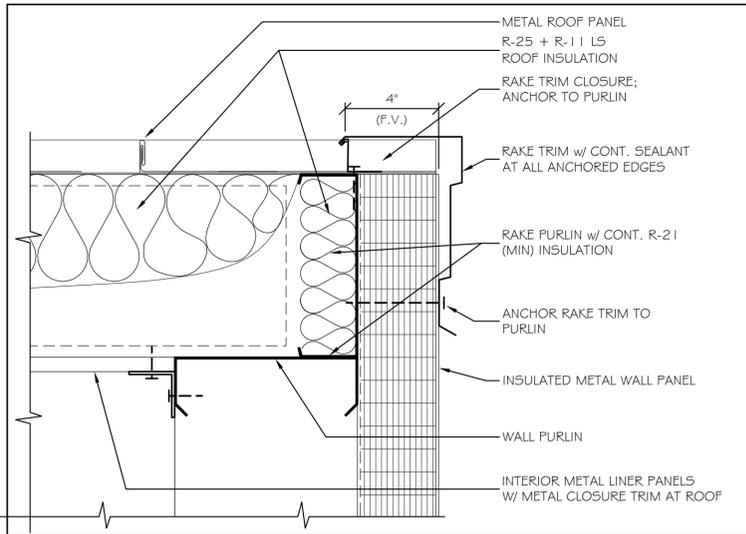
SHEET NUMBER: A-1

14 OF 36

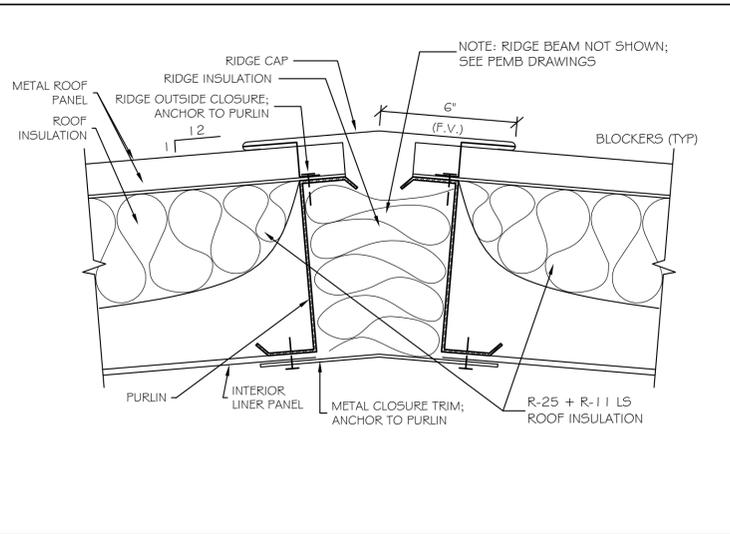
F 1 2 3 4 5 6 7 8 9 10



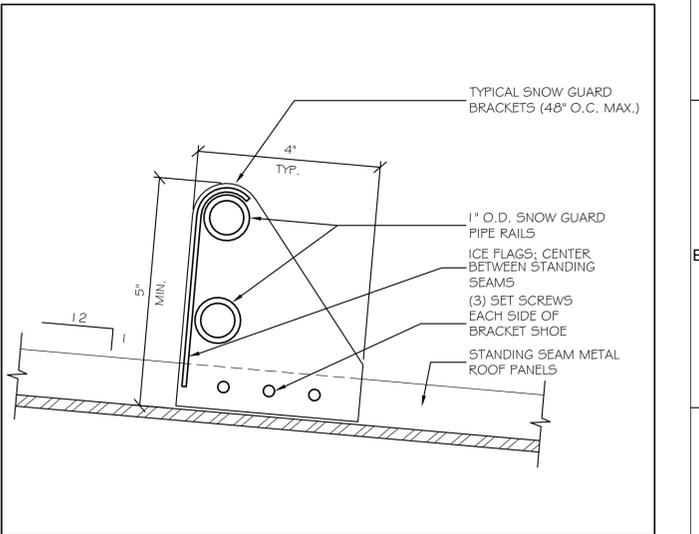
② OVERHANG DETAIL 1" = 1'-0"



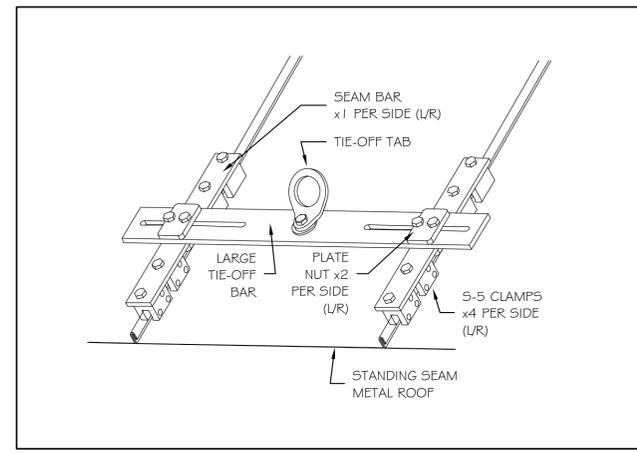
③ RAKE DETAIL 3" = 1'-0"



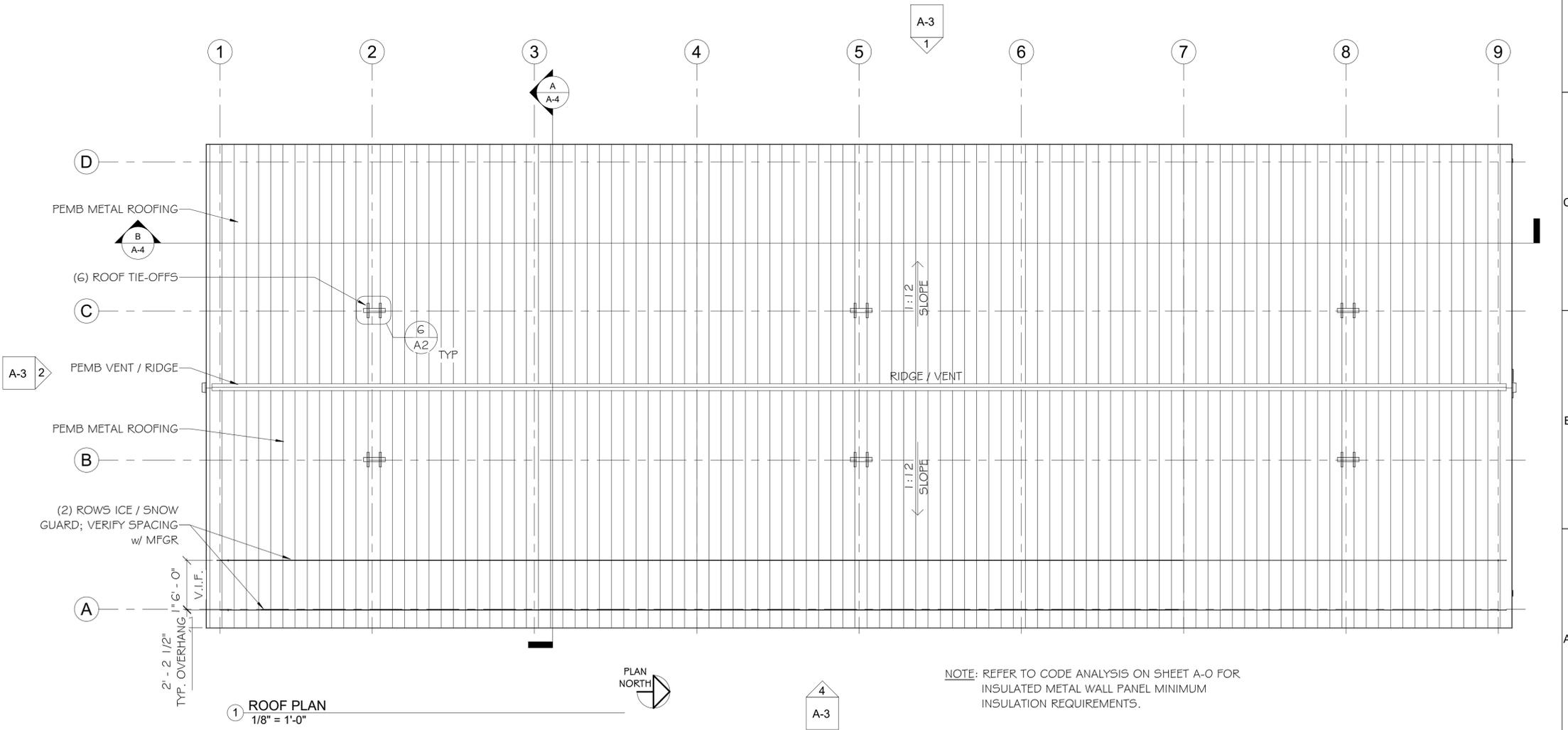
④ RIDGE DETAIL 3" = 1'-0"



⑤ ICE / SNOW GUARD DETAIL HALF SIZE



⑥ ROOF SAFETY TIE-OFF DETAIL 1/2" = 1'-0"



① ROOF PLAN 1/8" = 1'-0"

NOTE: REFER TO CODE ANALYSIS ON SHEET A-0 FOR INSULATED METAL WALL PANEL MINIMUM INSULATION REQUIREMENTS.

Scale: As indicated

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

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

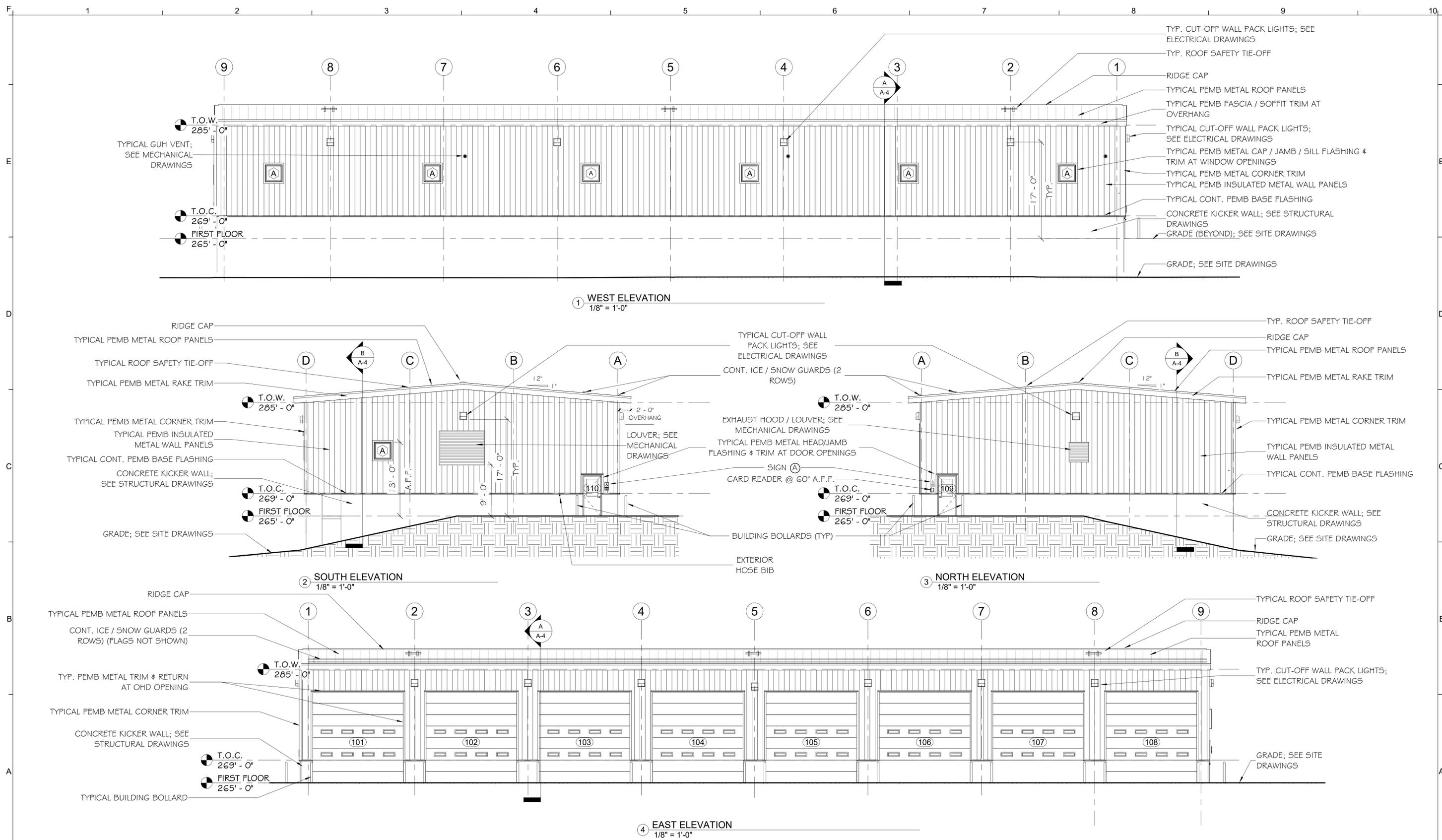


THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
ROOF PLAN & DETAILS

SHEET NUMBER: A-2
CONTRACT: 2025.11
15 OF 36



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

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

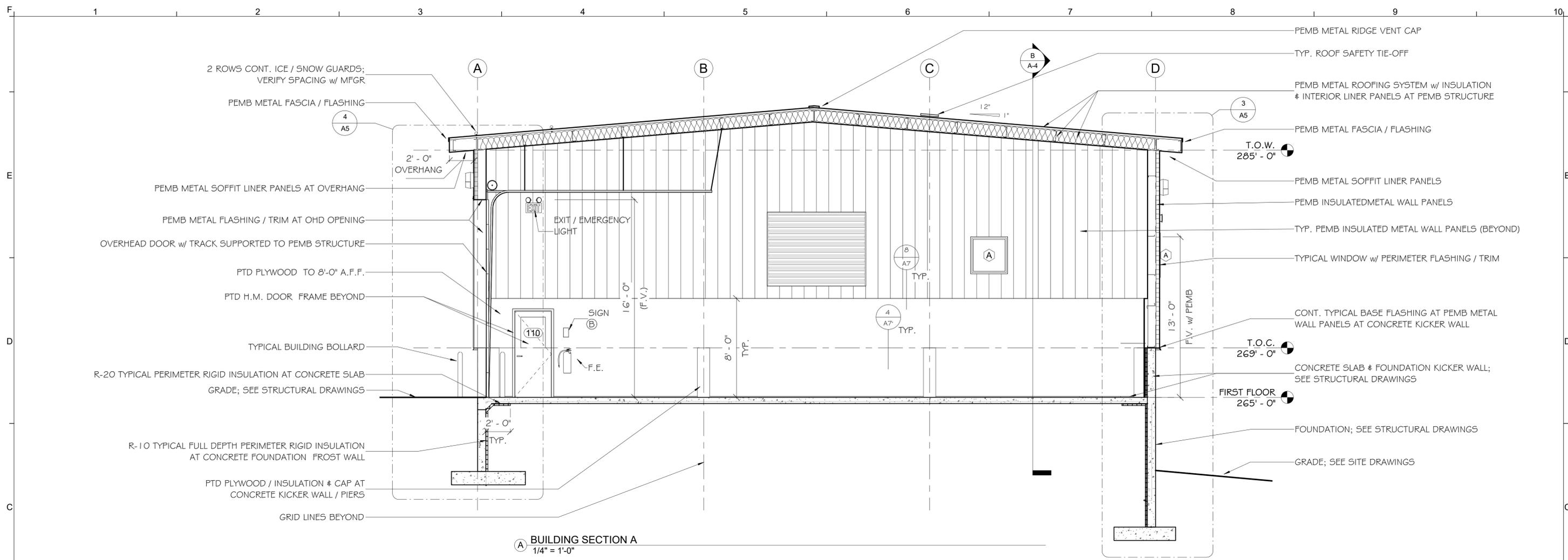
By	Date	By	Date
Designed: MFH	04/25/25	Checked: MFH	04/25/25
Drawn: MGK	04/25/25		

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

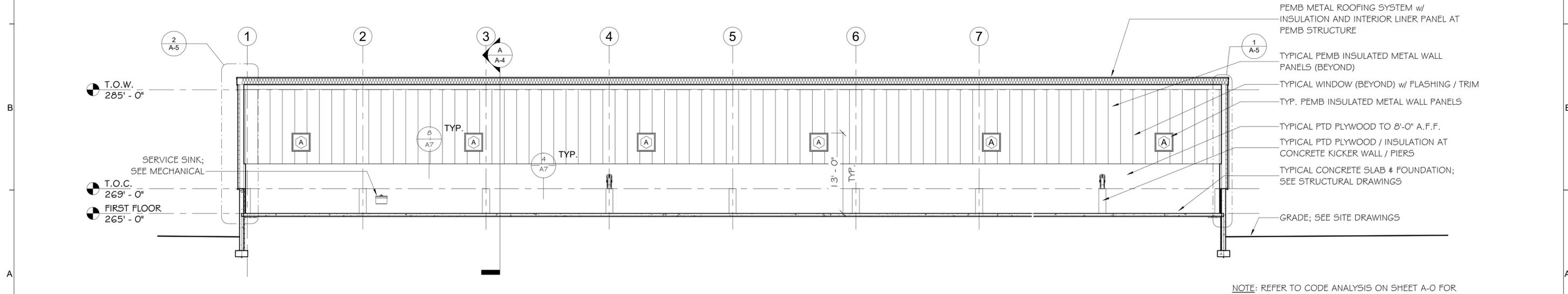
THE GOLD STAR MEMORIAL HIGHWAY
MTA PROJECT MANAGER: Brian Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
ELEVATIONS

SHEET NUMBER: A-3
CONTRACT: 2025.11
16 OF 36



A BUILDING SECTION A
1/4" = 1'-0"



B BUILDING SECTION B
1/8" = 1'-0"

NOTE: REFER TO CODE ANALYSIS ON SHEET A-0 FOR INSULATED METAL WALL PANEL MINIMUM INSULATION REQUIREMENTS.

Scale: As indicated

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

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

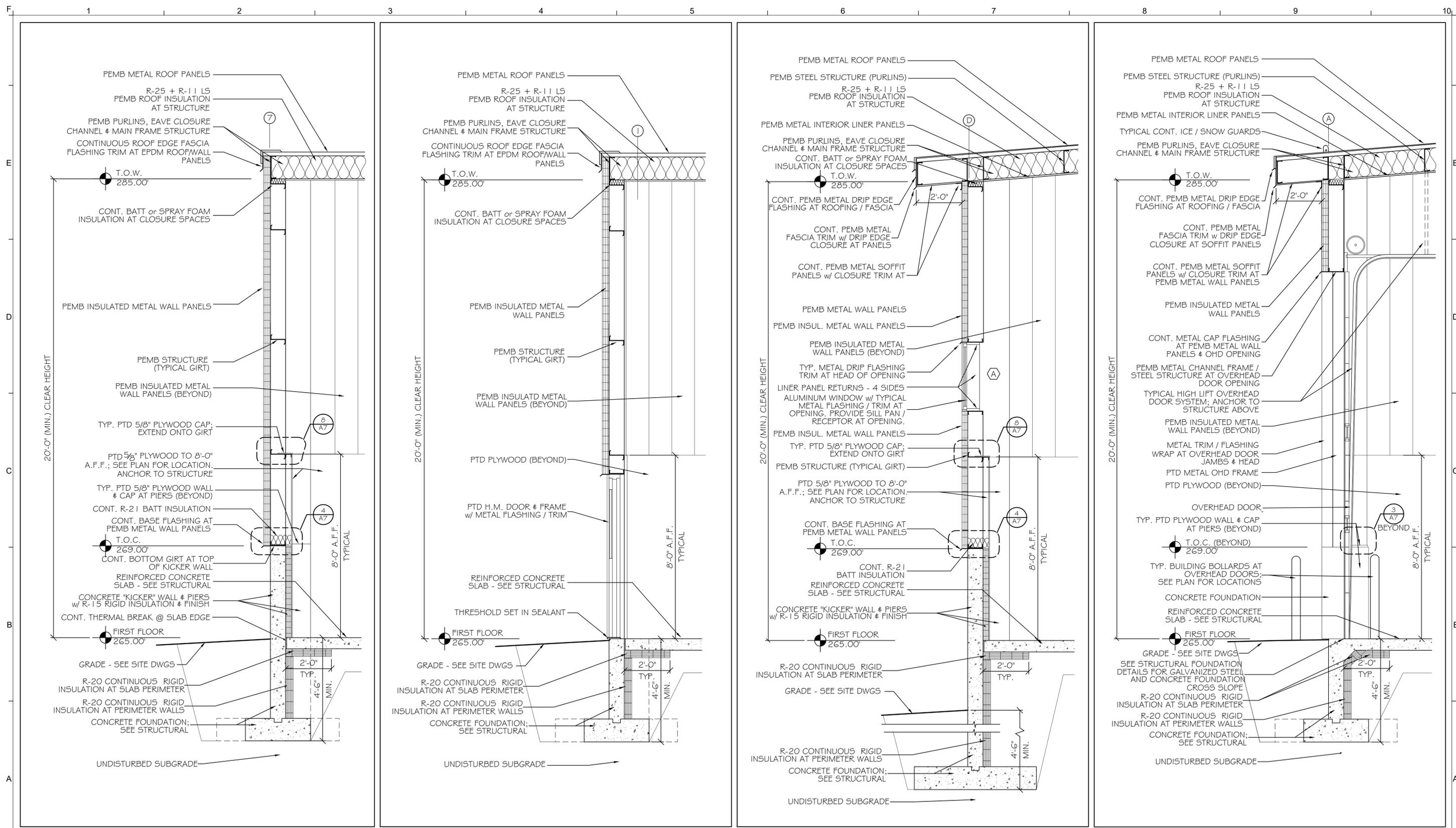
AUBURN VEHICLE STORAGE GARAGE

BUILDING SECTIONS

SHEET NUMBER: A-4

CONTRACT: 2025.11

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① TYPICAL WALL SECTION 1/2" = 1'-0" ② TYP. WALL SECTION AT H.M. DOOR 1/2" = 1'-0" ③ TYP. WALL SECTION AT WINDOW 1/2" = 1'-0" ④ TYP. WALL SECTION AT OVERHEAD DOOR 1/2" = 1'-0"

Scale: As indicated

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

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

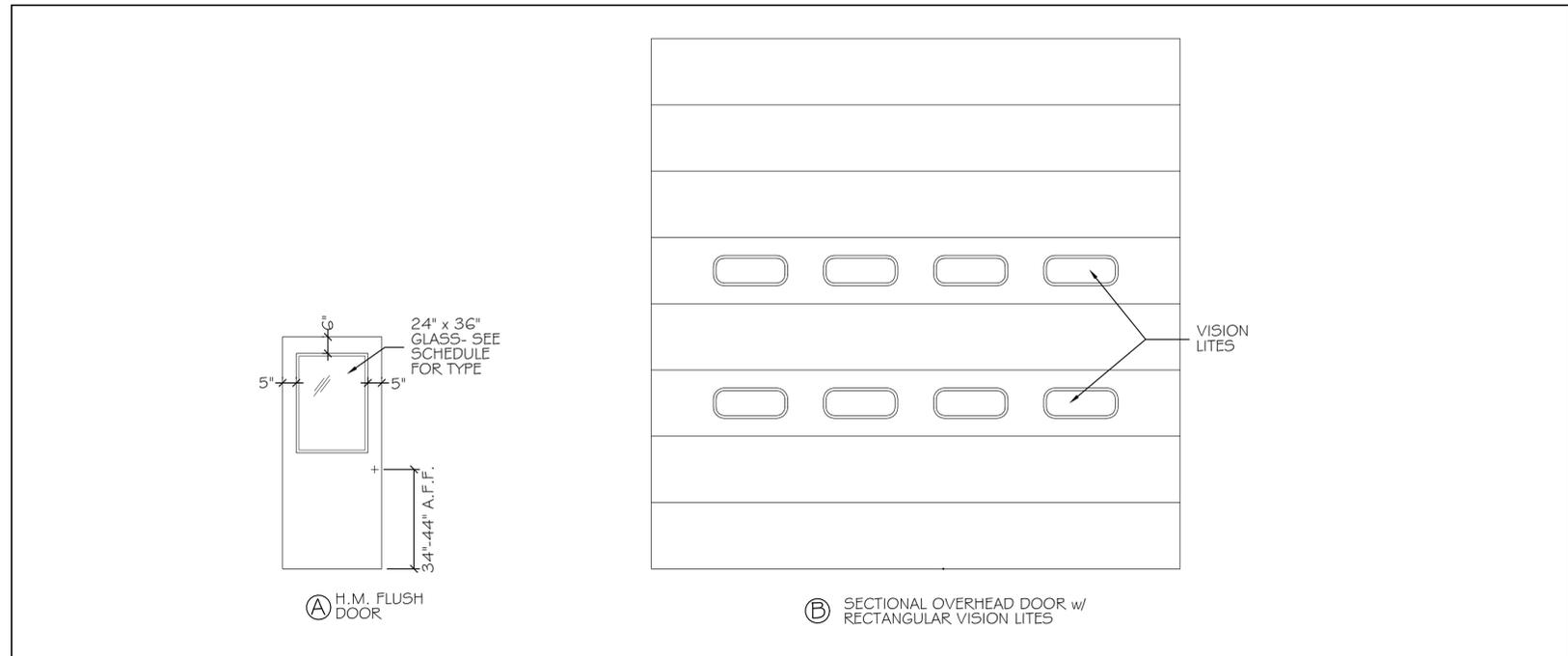
AUBURN VEHICLE STORAGE GARAGE

WALL SECTIONS

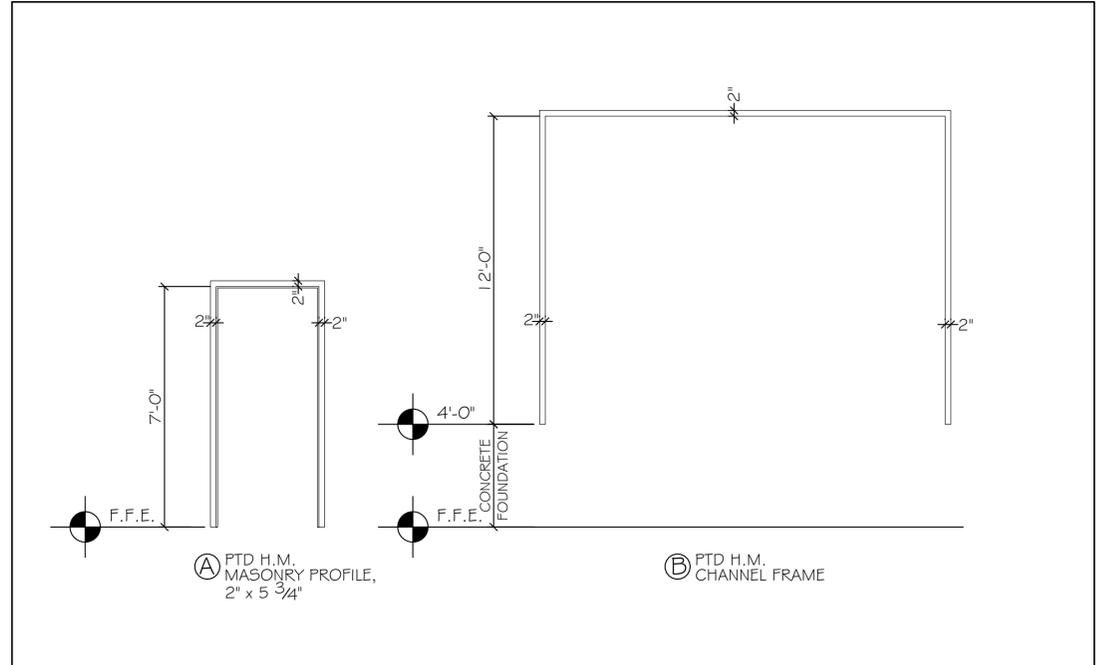
SHEET NUMBER: A-5

CONTRACT: 2025.11

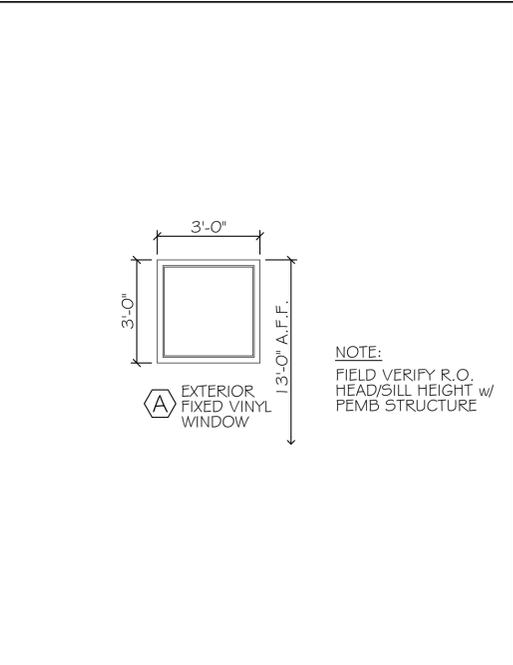
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DOOR TYPES 3/8" = 1'-0"



FRAME TYPES 3/8" = 1'-0"



WINDOW TYPE 3/8" = 1'-0"

DOOR SCHEDULE

ABBREVIATIONS

ALUM	AL	ALUMINUM	MAS	MASONRY
DW		DRYWALL	MFGR	MANUFACTURER
ES		EDGE STRIP	OCD	OVERHEAD COILING DOOR
EMHO		ELECTRO MAGNETIC HOLD OPENER	OHD	OVERHEAD DOOR
GL		GLASS	T	TEMPERED
HM		HOLLOW METAL	T-BREAK	THERMAL BREAK
INSUL		INSULATED	TH	THERMAL INSULATED
			TS	TRANSITION STRIP

NO.	TYPE	SIZE (w x h)	THK	INSUL	HDWE	FR	GLASS		REMARKS	FRAMES				THRESHOLDS			
							TYPE	SIZE		TYPE	FR	PROFILE	DETAILS HEAD	DETAILS JAMB	MATERIAL	DETAILS SILL	FIN
101	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
102	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
103	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
104	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
105	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
106	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
107	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
108	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
109	A	3' x 7'	1 3/4"	YES	HW-2	---	T / TH	24" x 36"		A	---	MAS	9-A7	10-A7	ALUM	11-A7	---
110	A	3' x 7'	1 3/4"	YES	HW-1	---	T / TH	24" x 36"		A	---	MAS	9-A7	10-A7	ALUM	11-A7	---

WINDOW SCHEDULE

ABBREVIATION MFGR MANUFACTURER

NO.	TYPE	MANUFACTURER		NOMINAL SIZE		DETAILS					REMARKS	
		MFGR	MODEL	WIDTH	HEIGHT	HEAD	JAMB	SILL	MUNT	MULL		
A	FIXED	VINYL	MFGR	3'-0"	3'-0"	13-A7	14-A7	15-A7	---	---	---	LOW 'E' INSULATED GLASS

FINISH SCHEDULE

ABBREVIATIONS

CH	CONCRETE w/ HARDENER	IMP	INSULATED METAL PANEL
CMU	CONCRETE MASONRY UNIT	MLP	METAL LINER PANEL
DFP	DRY FALL PAINT	P	PAINT
E	EXISTING	RB	RUBBER BASE
EP	EPOXY PAINT	RT	RUBBER TILE
FRP	FIBERGLASS REINFORCED PANELS	SAT	SUSPENDED ACOUSTICAL TILE
FV	FIELD VERIFY	SS	STAINLESS STEEL
GL	GLASS	WD	WOOD
GWB	GYP'SUM WALL BOARD		

RM NO.	NAME	WALLS				FLOORS				CEILING A		CEILING B		REMARKS
		N	E	S	W	MAT'L	BASE	MAT'L	BASE	TYPE	HT.	TYPE	HT.	
101	BAY 1	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	
102	BAY 2	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	
103	BAY 3	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	
104	BAY 4	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	
105	BAY 5	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	
106	BAY 6	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	
107	BAY 7	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	
108	BAY 7	P / IMP	P / IMP	P / IMP	P / IMP	CONC	---	---	---	MLP	STRUCT.	---	---	

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

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

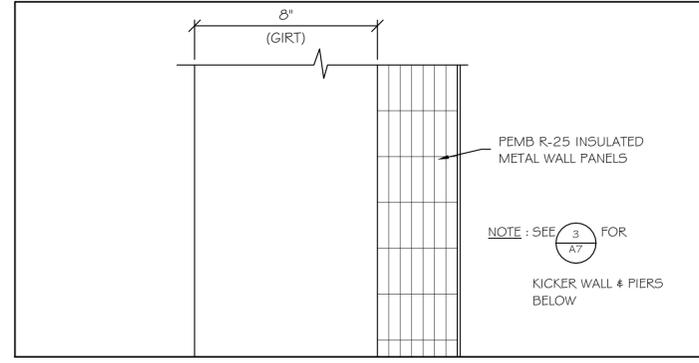
Michael F. Hays
 LICENSED ARCHITECT
 MICHAEL F. HAYS
 No. 1724
 STATE OF MAINE

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

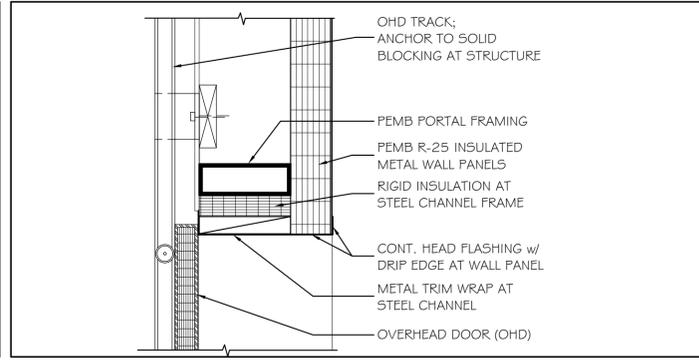
GRANT HAYS ASSOCIATES
 ARCHITECTURE & INTERIOR DESIGN
 P.O. BOX 6179 FALMOUTH MAINE 04105
 207.871.5900 www.granthays.com

MAINE TURNPIKE
 THE GOLD STAR MEMORIAL HIGHWAY
 MTA PROJECT MANAGER: Brian Taddeo, P.E.

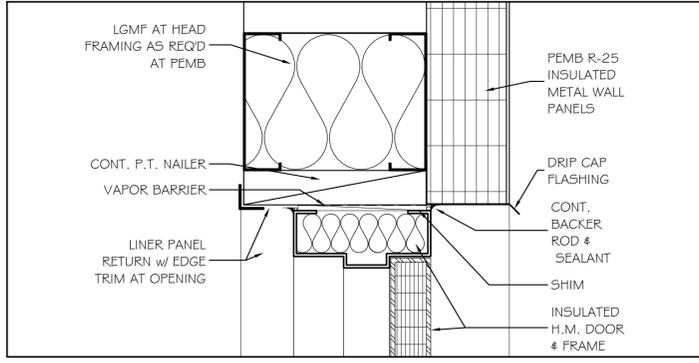
AUBURN VEHICLE STORAGE GARAGE
 DOOR, WINDOW & FINISH SCHEDULES
 SHEET NUMBER: A-6
 CONTRACT: 2025.11
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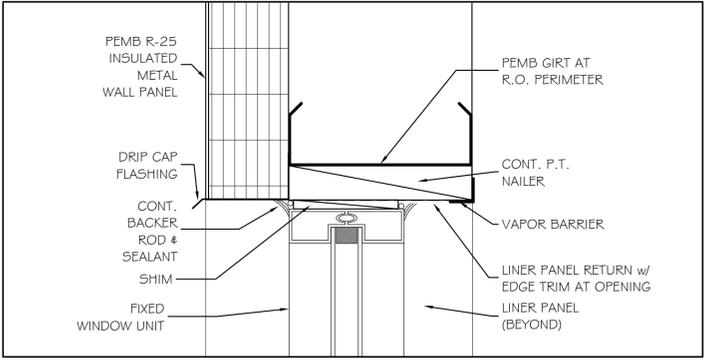
1 PARTITION TYPE 1 3" = 1'-0"



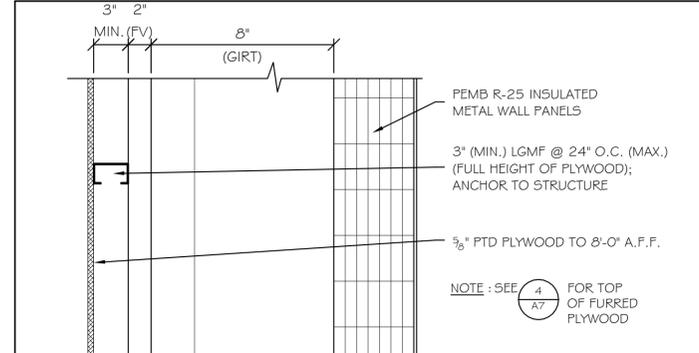
5 HEAD AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL 1/2" = 1'-0"



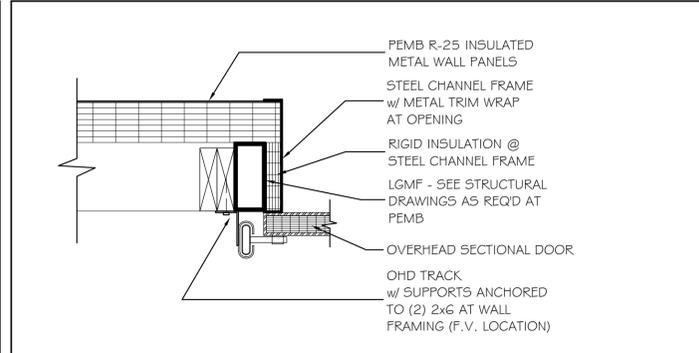
9 EXT. H.M. DOOR HEAD DETAIL 3" = 1'-0"



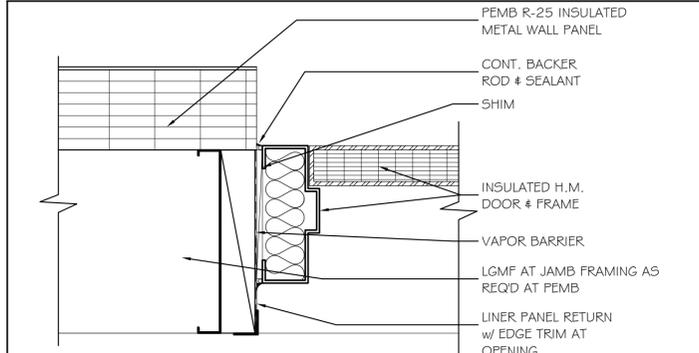
13 WINDOW HEAD DETAIL 3" = 1'-0"



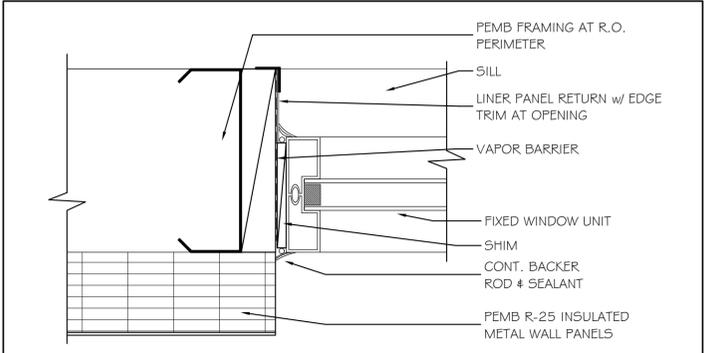
2 PARTITION TYPE 2 3" = 1'-0"



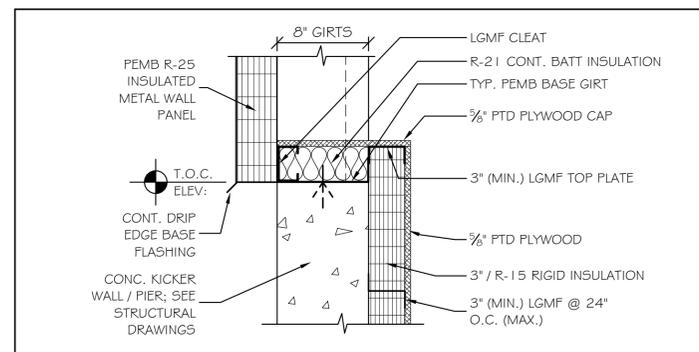
6 JAMB AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL 1/2" = 1'-0"



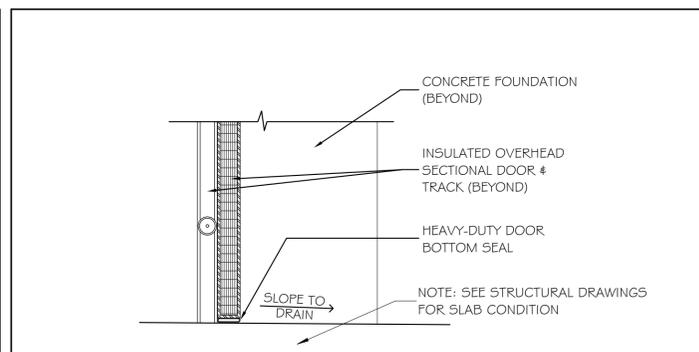
10 EXT. H.M. DOOR JAMB DETAIL 3" = 1'-0"



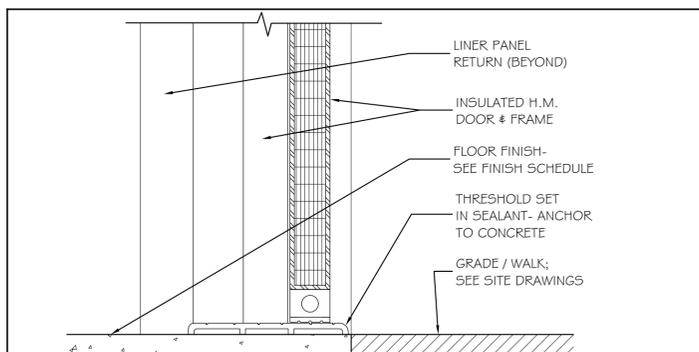
14 WINDOW JAMB DETAIL 3" = 1'-0"



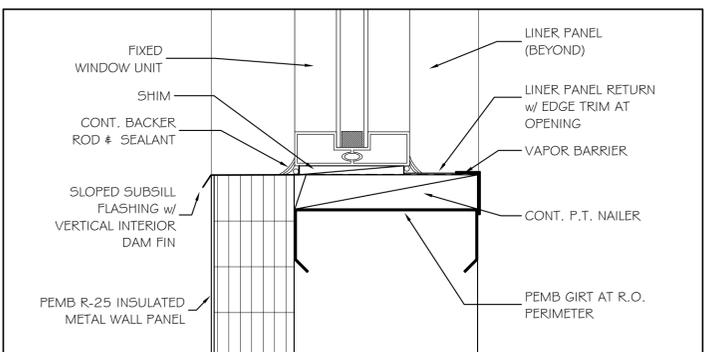
3 KICKER WALL & PIERS DETAIL AT 1/2" = 1'-0"



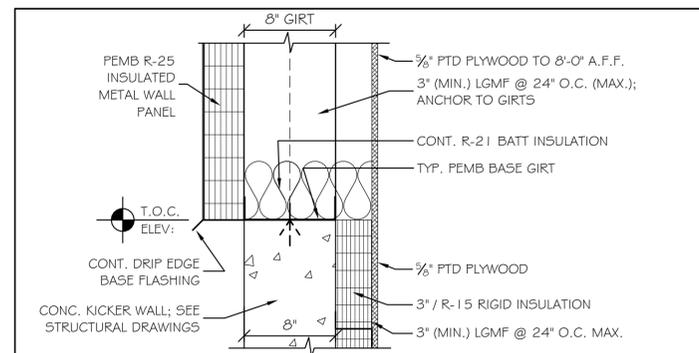
7 SILL AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL 1/2" = 1'-0"



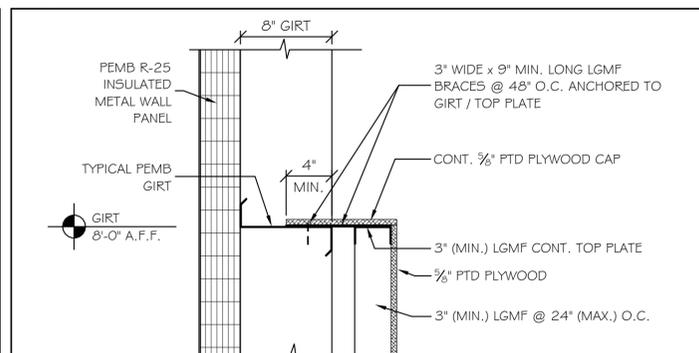
11 EXT. H.M. DOOR SILL DETAIL 3" = 1'-0"



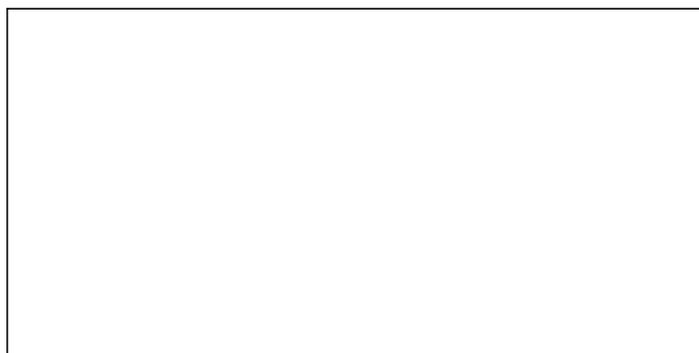
15 WINDOW SILL DETAIL 3" = 1'-0"



4 FURRED KICKER WALL DETAIL 1/2" = 1'-0"



8 TOP OF PLYWOOD DETAIL 1/2" = 1'-0"



12



16

Scale: As indicated

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Designed by: MICHAEL F. HAYS, RA

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

AUBURN VEHICLE STORAGE GARAGE

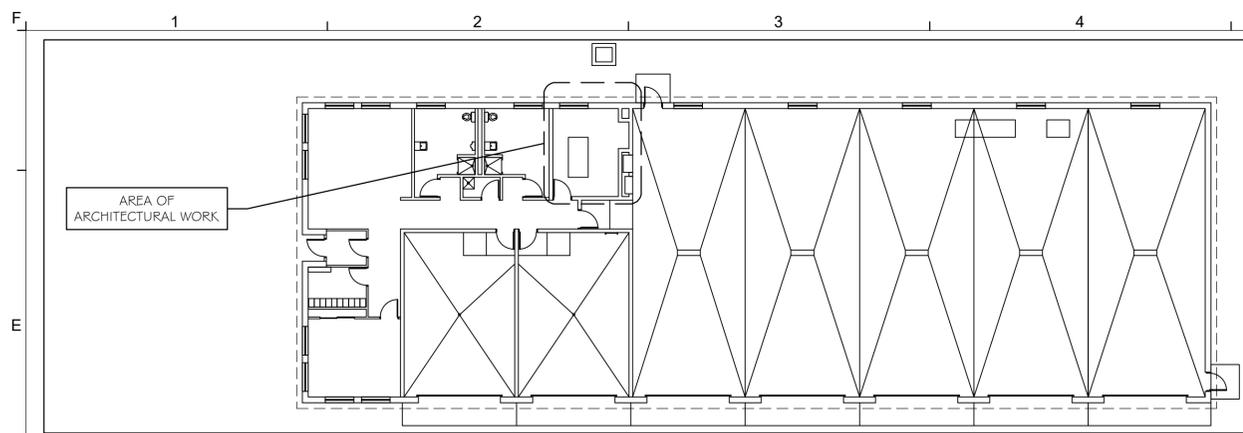
DETAILS

SHEET NUMBER: A-7

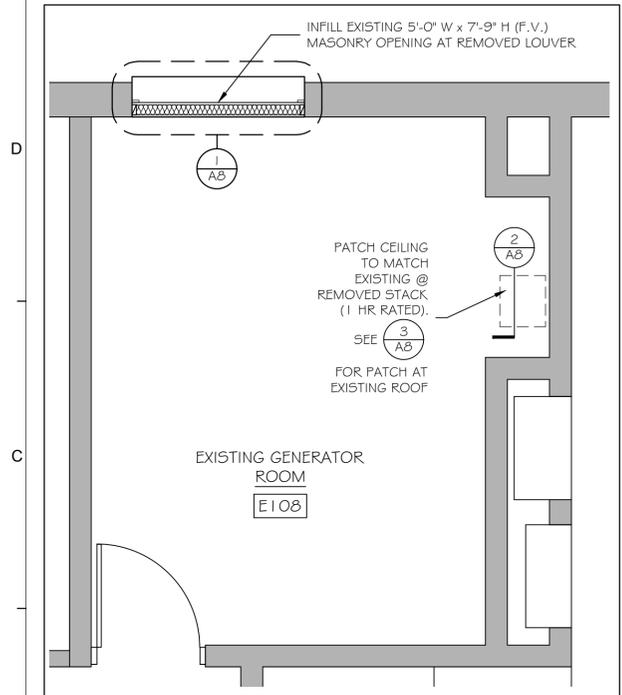
CONTRACT: 2025.11

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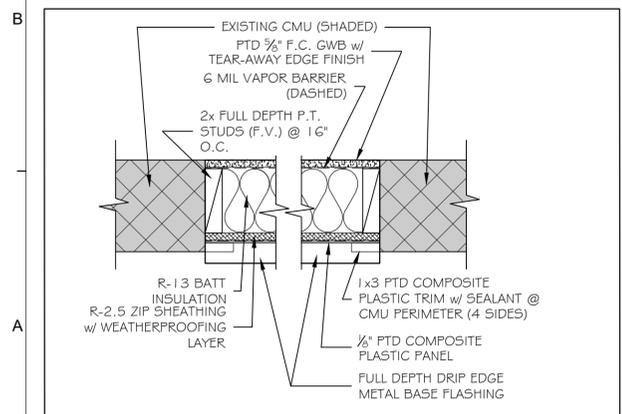
MTA PROJECT MANAGER: Brian Taddeo, P.E.



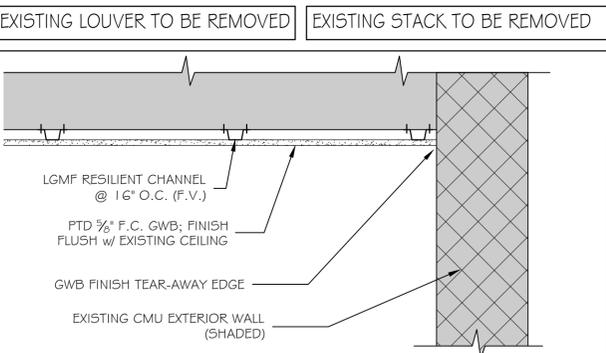
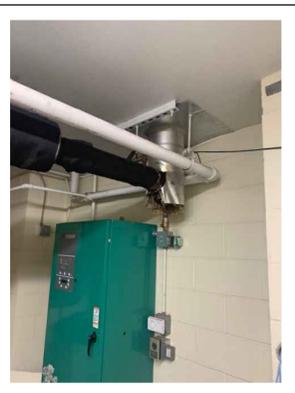
EXISTING MAINTENANCE GARAGE KEY PLAN 1/16" = 1'-0"



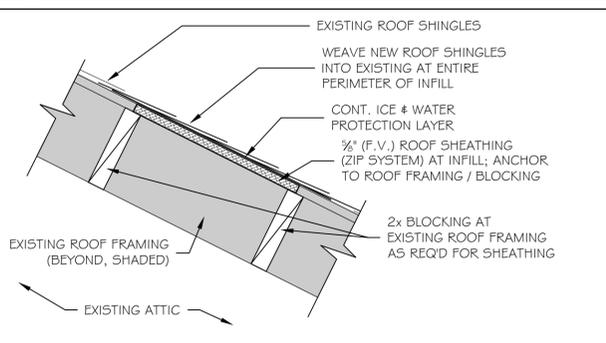
EXISTING GENERATOR ROOM PARTIAL PLAN 3/8" = 1'-0"



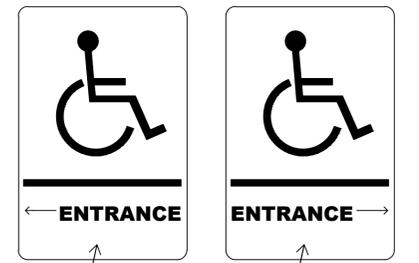
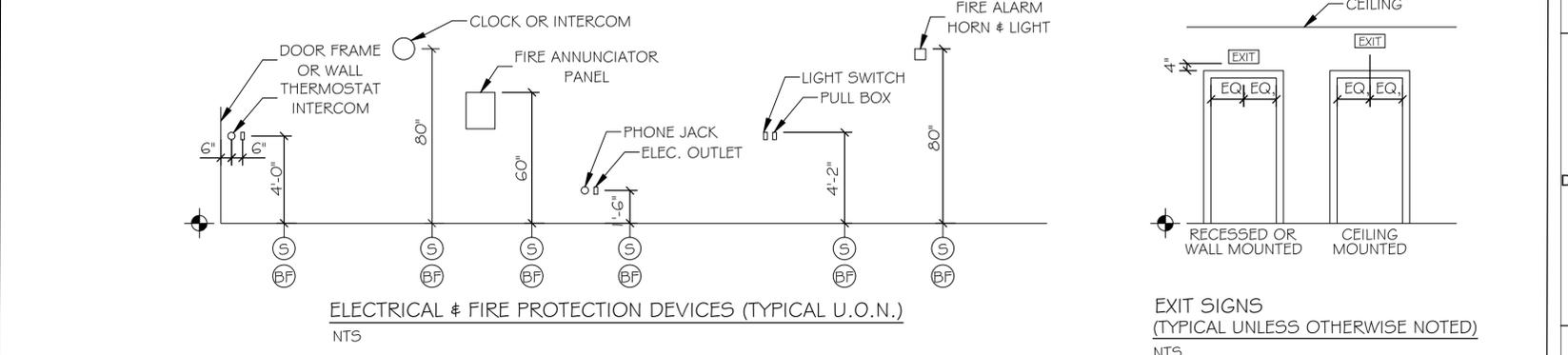
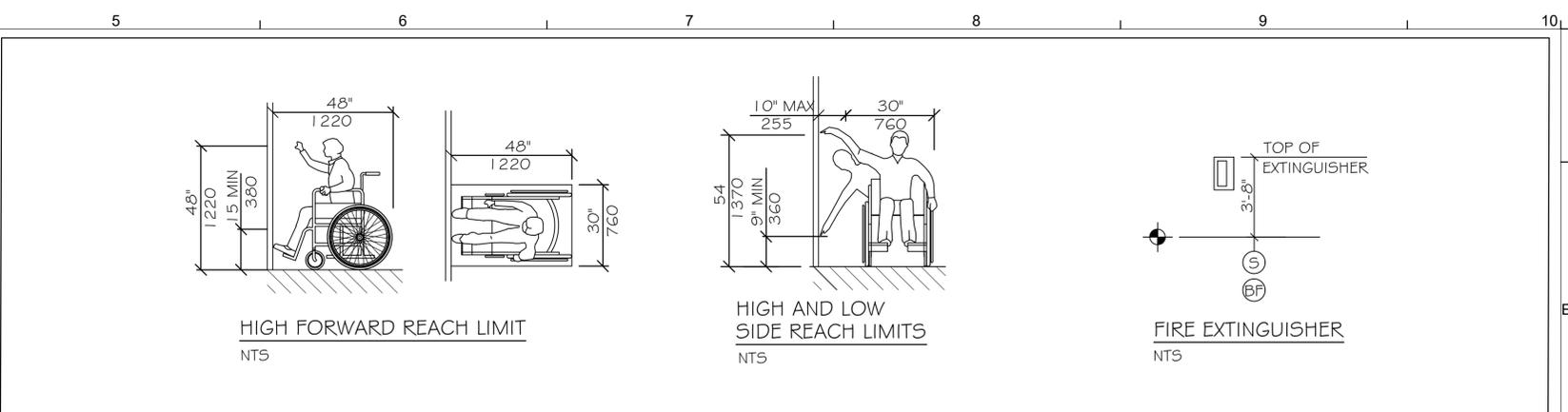
LOUVER INFILL AT CMU WALL 1/2" = 1'-0"



1 HR RATED INFILL AT STACK REMOVAL 1/2" = 1'-0"



ROOF INFILL DETAIL 1/2" = 1'-0"



ACCESSIBILITY DETAILS & NOTES N.T.S.

- ACCESSIBILITY GENERAL NOTES**
- DOORWAYS SHALL HAVE A MINIMUM CLEAR WIDTH OF 32" WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
 - ALL DOORS SHALL HAVE LEVER HANDLE HARDWARE, EXCEPT AT SECURED STORAGE ROOMS, MECHANICAL ROOMS, AND ELEVATOR MACHINE ROOMS.
 - ALL CLOSERS SHALL BE 5LB PULL MAXIMUM AT DOORS EQUIPPED WITH LEVER HANDLE HARDWARE.
 - ALL DOORS WITH CLOSERS SHALL HAVE 18" CLEAR DISTANCE FROM THE LATCHSIDE OF THE OPENING TO ANY ADJACENT WALL OR OBSTRUCTION ON THE PULL SIDE OF THE OPENING.
 - ALL DOORS WITH CLOSERS SHALL HAVE 12" CLEAR DISTANCE FROM THE LATCHSIDE OF THE OPENING TO ANY ADJACENT WALL OR OBSTRUCTION ON THE PUSH SIDE OF THE OPENING.
 - ALL SIGNAGE SHALL BE MOUNTED 60° AFF TO BRILLE COMPONENT AT LATCH-SIDE WALL OF DOORS AND OPENINGS.
 - COMPLY WITH 2010 EDITION OF THE AMERICANS WITH DISABILITIES ACT.

Scale: AS NOTED

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

By	Date	By	Date
Designed: MFH	04/25/25	Checked: MFH	04/25/25
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MICHAEL F. HAYS
No. 1724
STATE OF MAINE

Michael F. Hays

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

MAINE TURNPIKE
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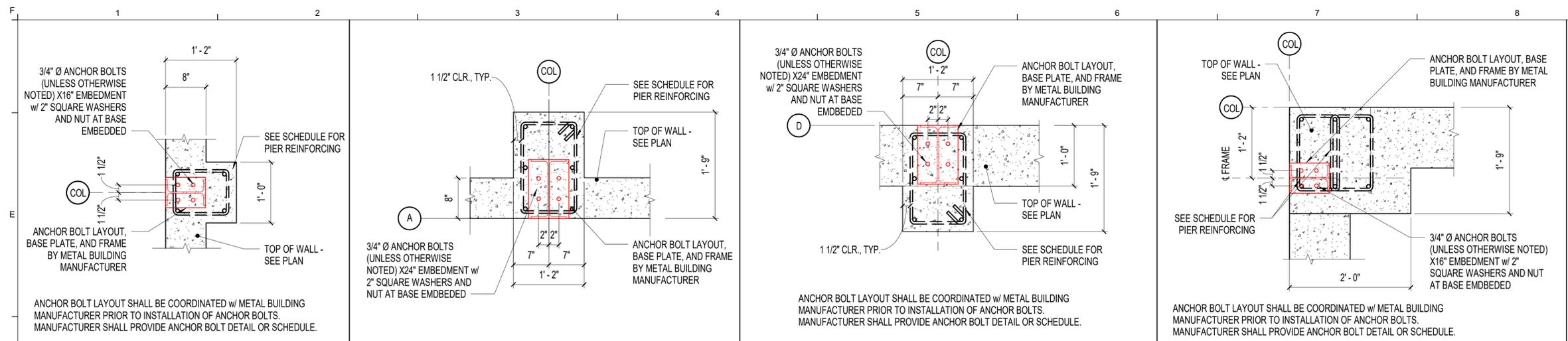
MTA PROJECT MANAGER: Brian Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE
MAINTENANCE GARAGE LOUVER INFILL DETAILS AND ACCESSIBILITY DETAILS & NOTES

SHEET NUMBER: A-8
CONTRACT: 2025.11
21 OF 36

1	2	3	4	5	6	7	8	9	10																											
SPECIAL INSPECTIONS		STRUCTURAL NOTES:		CONCRETE NOTES:		GENERAL NOTES:																														
<p>1. SPECIAL INSPECTIONS: AN INDEPENDENT INSPECTIONS PROGRAM AND SCHEDULE SHALL BE INCLUDED AND ARRANGED FOR THE OWNER.</p> <p>2. A QUALIFIED PERSON APPROVED BY THE BUILDING OFFICIALS SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC-2015, AND AS DEFINED. SPECIAL INSPECTOR SHALL OBSERVE WORK FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.</p> <p>3. INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND IF NOT CORRECTED, SHALL BE REPORTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER.</p> <p>4. THE FOLLOWING TYPES OF WORK SHALL RECEIVE SPECIAL INSPECTION OVERSITE: STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTIONS, METAL DECK FASTENING, INSTALLATION OF REINFORCING STEEL FOR CONCRETE, ALL CONCRETE PLACEMENT AND STRENGTH TESTING, AND STRUCTURAL FILL PLACEMENT.</p>		<p>MINIMUM LOADING REQUIREMENTS:</p> <p>1. DESIGN CODES:</p> <p>A. INTERNATIONAL BUILDING CODE – 2021 EDITION B. ASCE/SEI 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES C. AISC SEISMIC DESIGN MANUAL – 2012 D. MBMA'S METAL BUILDING SYSTEMS MANUAL</p> <p>2. DESIGN PARAMETERS:</p> <p>A. <u>ROOF SNOW LOADS:</u> (EXCEPT AT DRIFTING SNOW LOCATIONS AND THOSE LISTED BELOW. PEMB EOR TO DETERMINE WHERE DRIFTING SNOW MAY APPLY.)</p> <p>a. GROUND SNOW LOAD: $P_G = 80.0$ PSF 1. IMPORTANCE FACTOR: $I_s = 1.20$ 2. COLD ROOF SLOPE FACTOR: $C_s = 1.0$ 3. THERMAL FACTOR: $C_t = 1.10$ 4. EXPOSURE FACTOR: $C_e = 1.0$ 5. TERRAIN CATEGORY: "B"</p> <p>b. FLAT ROOF SNOW LOAD: $P_f = 80.0$ PSF</p> <p>B. <u>ROOF DEAD LOAD:</u> 25 PSF (INCL. 8.0 PSF FOR FUTURE SOLAR ARRAY AND 5 PSF COLLATERAL)</p> <p>C. <u>ROOF LIVE LOAD:</u> a. STANDARD ROOF LIVE LOAD: 20 PSF</p> <p>D. <u>FLOOR LIVE LOADS:</u> a. OFFICE BUILDINGS 1. VEHICLE MAINTENANCE FLOOR – DESIGN FOR TRUCKS AND BUSES PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS; HOWEVER, PROVISIONS FOR FATIGUE AND DYNAMIC LOAD ALLOWANCE HAVE NOT BEEN APPLIED.</p> <p>E. <u>WIND:</u> a. FACTORS: 1. ASCE-7-16 2. EXPOSURE CATEGORY: 3. BUILDING HEIGHT: b. COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES</p> <p><u>ROOF SURFACE PRESSURES (PSF)</u></p> <table border="1"> <thead> <tr> <th>AREA</th> <th>100 SF</th> <th>200 SF</th> </tr> </thead> <tbody> <tr> <td>NEGATIVE ZONE 1</td> <td>-33.5</td> <td>-30.7</td> </tr> <tr> <td>NEGATIVE ZONE 1'</td> <td>-24.7</td> <td>-21.2</td> </tr> <tr> <td>NEGATIVE ZONE 2</td> <td>-44.4</td> <td>-40.9</td> </tr> <tr> <td>NEGATIVE ZONE 3</td> <td>-53.0</td> <td>-45.7</td> </tr> <tr> <td>POSITIVE ALL ZONES</td> <td>16.0</td> <td>16.0</td> </tr> <tr> <td>OVERHANG ZONE 1 & 1'</td> <td>-36.6</td> <td>-30.6</td> </tr> <tr> <td>OVERHANG ZONE 2</td> <td>-36.4</td> <td>-31.5</td> </tr> <tr> <td>OVERHANG ZONE 3</td> <td>-44.9</td> <td>-36.4</td> </tr> </tbody> </table> <p>F. <u>SEISMIC:</u> a. DESIGN DATA: 1. BUILDING RISK CATEGORY: 2. MAPPED RESPONSE SPECTRAL ACC. (0.2 SEC.); 3. MAPPED RESPONSE SPECTRAL ACC. (1.0 SEC.); 4. SOIL SITE CLASSIFICATION: 5. IMPORTANCE FACTOR: 6. DESIGN RESPONSE SPECTRAL ACC. @ 5% DAMPED DESIGN: 7. SEISMIC DESIGN CATEGORY: 8. BASIC SEISMIC FORCE-RESISTING SYSTEM: 9. SEISMIC RESPONSE COEFFICIENT 10. ANALYSIS PROCEDURE: b. DESIGN COEFFICIENTS AND FACTORS FOR SEISMIC FORCE RESISTING SYSTEMS 1. STEEL SYSTEMS NOTE SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE A. RESPONSE MODIFICATION B. SYSTEM OVERSTRENGTH FACTOR C. DEFLECTION AMPLIFICATION FACTOR</p>		AREA	100 SF	200 SF	NEGATIVE ZONE 1	-33.5	-30.7	NEGATIVE ZONE 1'	-24.7	-21.2	NEGATIVE ZONE 2	-44.4	-40.9	NEGATIVE ZONE 3	-53.0	-45.7	POSITIVE ALL ZONES	16.0	16.0	OVERHANG ZONE 1 & 1'	-36.6	-30.6	OVERHANG ZONE 2	-36.4	-31.5	OVERHANG ZONE 3	-44.9	-36.4	<p>1. CONCRETE WORK SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS"; ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"; AND ACI 318 "ACI DETAIL MANUAL", AND CRSI "MANUAL OF STANDARD PRACTICE".</p> <p>2. CONTRACTOR SHALL PROVIDE TIES AND BRACING WHERE NECESSARY DURING CONSTRUCTION, TO REMAIN IN PLACE UNTIL THE STRUCTURE(S) IS/ARE COMPLETE.</p> <p>3. CONCRETE SHALL BE: A. FOOTINGS, PIERS AND FOUNDATION WALLS: 4,500 PSI AT (28) DAYS. SLUMP SHALL NOT EXCEED 6 INCHES (W/C RANGE: 0.48 – 0.52) – (AIR ENTRAINED). B. INTERIOR SLABS-ON-GRADE: (NO AIR) a. MAINTENANCE AREA - 4,500 PSI CONCRETE AT (28) DAYS. SLUMP SHALL NOT EXCEED 6 INCHES (W/C RANGE: 0.47 – 0.50). C. EXTERIOR SLABS ON GRADE SIDEWALKS, AND STAIRS SHALL BE 4,500 PSI AT (28) DAYS. SLUMP SHALL NOT EXCEED 6-INCHES (W/C = 0.45 – 0.47) – (AIR ENTRAINED).</p> <p>4. CONCRETE MATERIALS: A. PORTLAND CEMENT: ASTM C150, TYPE I OR II. USE ONE TYPE THROUGHOUT PROJECT. B. NORMAL WEIGHT AGGREGATES: ASTM C33. PROVIDE FROM SINGLE SOURCE FOR ENTIRE PROJECT. NO AGGREGATE CONTAINING SOLUBLE SALTS, IRON SULFIDES, PYRITE, MARCASITE, OR OCHRE WHICH CAN CAUSE STAINS ON EXPOSED CONCRETE SURFACES. C. LIGHTWEIGHT AGGREGATES: ASTM C330 D. WATER: POTABLE E. AIR-ENTRAINING ADMIXTURE: ASTM C260 F. HIGH RANGE WATER REDUCING ADMIXTURES (SUPER PLASTICIZER): ASTM C494, TYPE F OR G CONTAINING NOT MORE THAN 1% CHLORIDE IONS. G. NORMAL RANGE WATER REDUCING ADMIXTURES: ASTM C494 TYPE A CONTAINING NO CALCIUM CHLORIDE. H. ACCELERATING ADMIXTURES: ASTM C494, TYPE C OR E.</p> <p>5. PROVIDE METAL OR CONCRETE SLEEVES WHERE PIPES PASS THROUGH CONCRETE WALLS OR SLABS.</p> <p>6. REINFORCING BARS IN WALLS AND FOOTINGS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS, AND SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI 318-LATEST EDITION.</p> <p>7. REINFORCING BARS FOR INTERIOR SLABS-ON-GRADE SHALL CONFORM TO ASTM A775 GRADE 60 EPOXY COATED BARS, AND SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI 318-LATEST EDITION. DAMAGE IN SURFACE COATING SHALL BE LIMITED TO LESS THAN 2 PERCENT DAMAGED COATING IN EACH 12-INCH BAR LENGTH</p> <p>8. COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFORCING STEEL SHALL BE PREPARED BY CONTRACTOR AND SUBMITTED TO THE OWNER, FOR REVIEW BY EOR PRIOR TO COMMENCEMENT OF THAT PORTION OF THE WORK. ALL ACCESSORIES MUST BE SHOWN ON THE SHOP DRAWINGS.</p> <p>9. WELDING OF REINFORCEMENT IS NOT PERMITTED.</p> <p>10. CONSTRUCTION JOINTS FOR SLABS SHALL BE KEY JOINTED AT MID-SPAN WITH REINFORCING DISCONTINUOUS AT JOINT AND FILLED WITH AN APPROPRIATE SEALANT FOR THE INTENDED USE.</p> <p>11. CONTRACTOR WILL CHECK WITH EACH TRADE TO ASSURE CORRECT LOCATION, SIZE, LINE AND ELEVATION OF SLEEVES, BOND-OUTS, ETC. REQUIRED IN CONCRETE FLOORS AND WALLS.</p> <p>12. CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR DRAIN SETTING AND EXTENTS OF AREA SLOPE TO DRAIN DEVELOPMENT. VERIFY WITH ARCHITECTURAL AND PLUMBING PLANS TO ENSURE COMPLETE AREA DRAINAGE PLAN MATCHES THE DESIGN INTENT.</p> <p>13. MECHANICAL EQUIPMENT RESTING ON THE CONCRETE FLOOR SLAB SHALL HAVE A 4-INCH HIGH CONCRETE PAD UNDERNEATH; EXTENDING A MINIMUM OF 6-INCHES BEYOND UNIT EDGE (EACH DIRECTION), REINFORCED WITH #3 BARS AT 18-INCHES ON-CENTER, EACH WAY.</p> <p>14. ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED. CONCRETE SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM.</p> <p>15. PROVIDE IN SLABS-ON-GRADE: (2) #4 EPOXY COATED BARS, 4'-0" LONG, AT EACH REENTRANT CORNER AND BOTH SIDES OF EACH DOOR OPENING.</p> <p>16. COORDINATE SLAB DEPRESSIONS AND ALL INTERIOR FLOOR SLOPES TO DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.</p> <p>17. SLAB THICKNESSES (ON-GRADE) INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR SUBGRADE FLUCTUATIONS IN ORDER TO OBTAIN SPECIFIED SLAB ELEVATIONS AND SLOPES TO FLOOR DRAINS/TRENCHES. FLATNESS AND LEVELNESS INDICATED IN THE SPECIFICATION.</p> <p>18. ANCHOR BOLTS SHALL CONFORM TO ASTM A1554 – GRADE 36 UNLESS NOTED OTHERWISE ON PLAN.</p> <p>19. FOUNDATION WALL CONTROL JOINTS SHALL BE PLACED AT A MAXIMUM OF 60'-0" ON CENTER (EXTERIOR WALLS) AND 30'-0" ON CENTER (INTERIOR WALLS). CONTRACTOR SHALL PROVIDE A PROPOSED LAYOUT OF FOUNDATION WALL CONTROL JOINT LOCATIONS THAT WILL FIT BEST WITH THEIR WALL FORMWORK FOR REVIEW AND ACCEPTANCE BY EOR.</p>		<p>1. CONTRACTOR SHALL CONFORM TO SAFETY REQUIREMENTS OF THE OWNER, CONTRACT DOCUMENTS, OSHA SAFETY AND HEALTH STANDARDS, AND OTHER LOCAL AUTHORITIES IN CONNECTION WITH THE PERFORMANCE OF THIS PROJECT.</p> <p>2. REFERENCED STANDARDS OR PUBLICATIONS SHALL PERTAIN TO THE MOST CURRENT DATA, STANDARD OR PUBLICATION, UNLESS NOTED OTHERWISE.</p> <p>3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS AND/OR NARRATIVES, WHICH DESCRIBE THE SCOPE OF WORK.</p> <p>4. CONTRACTOR SHALL VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER, TO VERIFY EXISTING CONDITIONS, DIMENSIONS, LOCATION OF EXISTING UTILITIES, ETC. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES, WITHOUT EXCEPTION.</p> <p>5. THE STRUCTURE SHALL BE DESIGNED AS A SELF-SUPPORTING SYSTEM ONCE ALL WORK HAS BEEN COMPLETED. CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCE OF INSTALLATION TO ENSURE SAFETY OF THE BUILDING AND ITS OCCUPANTS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TEMPORARY SHORING, PRECAUTIONS DURING BUILDING OPERATIONS, PROTECTION OF PUBLIC AND WORKERS, REMOVAL OF WASTE MATERIAL, PROTECTION OF ADJACENT PROPERTY, PROTECTION OF HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, AND SANITARY PROVISIONS OF EMPLOYEES AND SUB-CONTRACTORS, AS REQUIRED, FOR THE DURATION OF THE CONTRACT.</p> <p>6. WORK SHALL BE DONE IN AN ORDERLY AND PROFESSIONAL MANNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE DONE BY SUB-CONTRACTORS, LOCAL AUTHORITIES, STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY HAVE JURISDICTION OVER THIS PROJECT.</p> <p>7. UTILITY EXTENSIONS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.</p> <p>8. CONTRACTOR SHALL REVIEW AND SUBMIT COMPLETE SHOP DRAWINGS FOR ALL SPECIFIED PARTS OF THE WORK. NO PORTION OF THE WORK COVERED BY THESE SHOP DRAWINGS SHALL COMMENCE UNTIL RETURNED APPROVED SHOPS ARE RECEIVED BY CONTRACTOR. SHOP SUBMITTAL PACKAGES SHALL INCLUDE, BUT NOT BE LIMITED TO: A. SITE: SHORING AND CONSTRUCTION METHODS/SEQUENCING, WHERE APPLICABLE. B. CONCRETE: MIX DESIGNS, ADMIXTURES, MIX HISTORIES; REBAR ORIGIN STRENGTH/GRADE; REBAR PLACEMENT DRAWINGS. C. COLD-FORMED METAL FRAMING: COLD-FORMED METAL CUT SHEETS, CONNECTIONS, PLACEMENT DRAWINGS ALONG WITH HEADER/JAMB AT OPENINGS AND FRAMING ELEMENT CALCULATIONS SIGNED BY A PE, REGISTERED IN THE PROJECT STATE. D. PRE-ENGINEERED BUILDING: PRE-ENGINEERED BUILDING CALCULATIONS AND DRAWINGS, STEEL FRAMING COMPONENTS AND CONNECTIONS, ALL SEALED BY A PE REGISTERED IN THE PROJECT STATE. E. STRUCTURAL STEEL: MISCELLANEOUS STEEL FRAMING COMPONENT SHOP DRAWINGS, ALONG WITH APPLICABLE FRAMING COMPONENT AND CONNECTION CALCULATIONS, ALL SEALED BY A PE REGISTERED IN THE PROJECT STATE.</p> <p>9. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY INCIDENTAL REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION; SUCH REPAIRS SHALL MATCH EXISTING TO THE OWNER'S SATISFACTION.</p> <p>10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ITEMS/MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNER'S REPRESENTATIVE.</p> <p>11. SPECIAL INSPECTIONS, AS REQUIRED BY IBC 2015 SECTION 1704, SHALL BE PERFORMED BY AN INSPECTION AGENCY CONTRACTED BY THE OWNER FOR THE FOLLOWING ELEMENTS: 1. CONCRETE/FOUNDATIONS: REBAR PLACEMENTS FOR CONFORMANCE WITH CONTRACT DOCUMENTS, CONCRETE DELIVERY TICKET MIX CONFIRMATION, VOLUME TEST SAMPLES FOR CONCRETE PLACEMENTS WITH 7, 14, AND 28 DAY BREAK TEST RESULTS. 2. SOILS: COMPACTION TESTING AND GRADATION CONFIRMATION 3. STEEL INCLUDING PEMB BUILDING FRAMING: STEEL PLACEMENTS FOR CONFORMANCE WITH CONTRACT DOCUMENTS, 100% OF BOLTED CONNECTIONS TESTING, 10% OF FIELD WELDED CONNECTIONS.</p>			
AREA	100 SF	200 SF																																		
NEGATIVE ZONE 1	-33.5	-30.7																																		
NEGATIVE ZONE 1'	-24.7	-21.2																																		
NEGATIVE ZONE 2	-44.4	-40.9																																		
NEGATIVE ZONE 3	-53.0	-45.7																																		
POSITIVE ALL ZONES	16.0	16.0																																		
OVERHANG ZONE 1 & 1'	-36.6	-30.6																																		
OVERHANG ZONE 2	-36.4	-31.5																																		
OVERHANG ZONE 3	-44.9	-36.4																																		
FIELD TESTING																																				
<p>1. BOLTED CONNECTIONS: 100% OF COMPONENTS AND FASTENERS IN SLIP CRITICAL CONNECTIONS, AS IDENTIFIED IN THE PROJECT CONTRACT DOCUMENTS, SHALL BE VISUALLY INSPECTED AND TESTED FOR TIGHTNESS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS, PARTS 8 AND 9.</p> <p>2. CHECK BY CALIBRATION TORQUE WRENCH: 25% OF BOLTS IN EACH NON-SC SHEAR CONNECTION, BUT NOT LESS THAN (2) PER CONNECTION.</p> <p>3. FIELD-WELDED CONNECTIONS: PERFORM TESTING IN ACCORDANCE WITH ANSII/AWS D1.1, CHAPTER 6.</p> <p>4. CONDUCT TESTING OF 10% OF WELDS ON STRUCTURAL STEEL BY DYE PENETRATION OR MAGNETIC PARTICLE TESTING.</p> <p>5. CONDUCT TESTING OF 100% OF GROOVE, PLUG, OR SLOT WELDS IN STRUCTURAL STEEL BY ULTRASONIC TESTING OR OTHER NONDESTRUCTIVE TESTING, APPROVED BY ENGINEER OF RECORD.</p> <p>6. RADIOGRAPHICALLY TEST 5% OF ALL FULL-PENETRATION WELDS.</p> <p>7. THE STRUCTURAL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED.</p>																																				
ROOF TIE-OFF ANCHOR NOTES:																																				
<p>1. PEMB DESIGN SHALL INCLUDE DESIGN CALCULATIONS AND ALL SUPPLEMENTAL STRUCTURAL FRAMING INTERGRAL WITH THE PEMB DESIGN AT THESE LOCATIONS. SYSTEM SHALL BE DESIGN FOR A 5,000 # HORIZONTAL LOADING APPLIED IN ANY DIRECTION AT THE TOP OF THE TIE-OFF ANCHORAGE SYSTEM.</p> <p>2. PROVIDE GUARDIAN FALL PROTECTION CB-18 ROOF ANCHORS (OR EQUAL) DIRECT CONNECTED TO PRE-ENGINEERED BUILDING ROOF.</p>																																				
FOUNDATION NOTES:																																				
<p>1. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY S.W. COLE ENGINEERING, INC., DATED MARCH 5, 2025. NET ALLOWABLE BEARING USED FOR DESIGN IS 3.0 KSF PER REPORT REFERENCED ABOVE. BEARING PRESSURE SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY PRIOR TO PLACING FOOTING CONCRETE.</p> <p>2. EXTERIOR STRIP AND SPREAD FOOTINGS SHALL HAVE MINIMUM 5'-0" GRADE COVER TO BOTTOM OF FOOTING ELEVATIONS.</p> <p>3. 10 MIL VAPOR BARRIER REQUIREMENTS BENEATH SLABS THROUGHOUT.</p> <p>4. UNDERDRAINS SHALL BE PLACED AS SHOWN ON THE SITE DRAWINGS. UNDERDRAINS SHALL BE INSTALLED TO POSITIVELY DRAIN TO A SUITABLE DISCHARGE POINT AWAY FROM THE STRUCTURE. REFER TO SITE DRAWINGS FOR ADDITIONAL INFORMATION.</p> <p>5. EXCAVATIONS FOR BUILDING FOUNDATIONS AND STRUCTURES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE. DO NOT UNDERMINE EXISTING ADJACENT FOUNDATIONS.</p> <p>6. IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION/BASEMENT WALL. IF THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8'-0", THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.</p> <p>7. CONCRETE SHALL NOT BE PLACED ON FROZEN GROUND OR IN WATER.</p>																																				

Scale:		Designed by:								AUBURN VEHICLE STORAGE GARAGE STRUCTURAL - GENERAL INFORMATION																																	
<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date																	WILLIAM P. FAUCHER, P.E.		<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>WPF</td> <td>04/25/25</td> <td>WPF</td> <td>04/25/25</td> </tr> <tr> <td>MJB</td> <td>04/25/25</td> <td> </td> <td> </td> </tr> </tbody> </table>		By	Date	By	Date	WPF	04/25/25	WPF	04/25/25	MJB	04/25/25			160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266		THE GOLD STAR MEMORIAL HIGHWAY		SHEET NUMBER: S-000	
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AEI PROJ.NO.:2561-00178 CAD FILE:2561-00178S_R22.rvt		MTA PROJECT MANAGER: Brian A. Taddeo, P.E.		CONTRACT: 2025.11		22 OF 36																																					

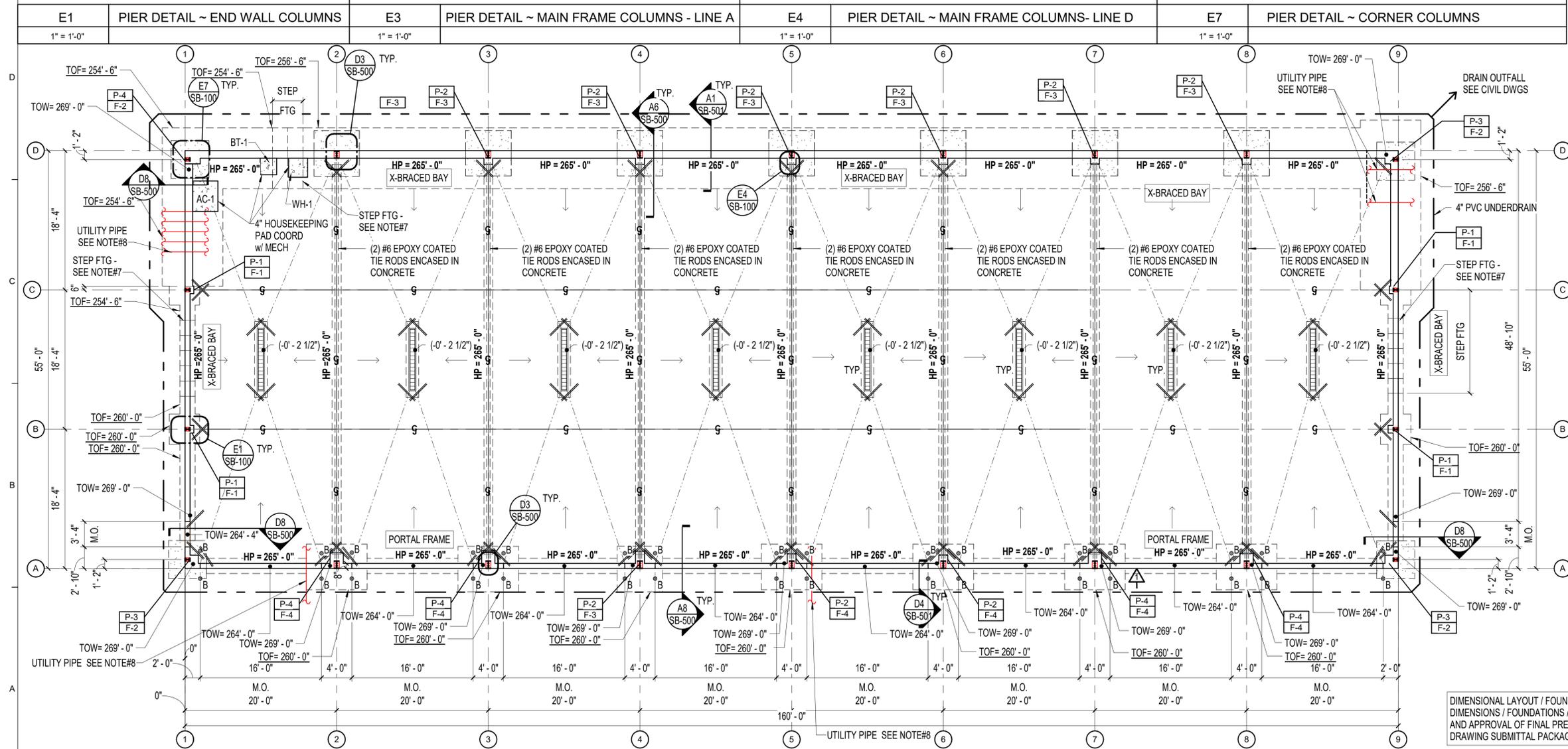


PIER SCHEDULE (GRADE 60 DEFORMED BARS)		
TYPE	SIZE	REINFORCING
P-1	12" x 14"	(4) #6 BARS VERTICAL; #4 HORIZ. TIES @ 8"
P-2	14" x 21"	(6) #6 BARS VERTICAL; #4 HORIZ. TIES @ 12"
P-3	21" x 21"	(6) #6 BARS VERTICAL; #4 HORIZ. TIES @ 12"
P-4	21" x 24"	(8) #6 BARS VERTICAL; #4 HORIZ. TIES @ 12"

FOOTING SCHEDULE (GRADE 60 DEFORMED BARS)		
MARK	SIZE	REINFORCING
F-1	48" x 48" x 12"	(5) #4 BARS E.W. BOTTOM
F-2	60" x 60" x 13"	(7) #5 BARS E.W. BOTTOM
F-3	72" x 72" x 16"	(7) #5 BARS E.W. BOTTOM
F-4	96" x 72" x 16"	(7) #5 BARS E.W. BOTTOM

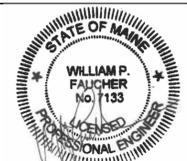
FOUNDATION PLAN NOTES:

- FINISH SLAB ELEVATION = 265.00' UNLESS NOTED OTHERWISE.
- CONCRETE SLAB-ON-GRADE SHALL BE 6" MINIMUM THICKNESS REINFORCED WITH #5 EPOXY COATED BARS AT 12-INCHES ON-CENTER EACH WAY UNLESS NOTED OTHERWISE. SLOPE SLAB TOWARD DRAINS INDICATED ON PLAN. MAINTAIN SLAB DEPTH. REINFORCING FOR 6" INTERIOR SLAB SHALL BE SET ON BOLSTER 2" ABOVE VAPOR BARRIER.
- TOP OF WALL ELEVATION = 269'-0" UNLESS NOTED OTHERWISE.
- TOP OF PIER ELEVATION = 269'-0" UNLESS NOTED OTHERWISE.
- HP = HIGH POINT NOTED AS ELEVATION (265'-0") ON PLAN IS EQUAL TO FINISHED SLAB ELEVATION. DRAIN AND SLOPE LINE ELEVATIONS NOTED (+/- X'-X") FROM HIGH POINT.
- G.C. SHALL COORDINATE TOP OF FOOTING ELEVATIONS NOTED ON PLAN FOR EXTERIOR WALL STRIP FOOTINGS AND FOR FOOTINGS BELOW PIERS ALONG EXTERIOR WALL.
 - A. TOP OF FOOTINGS SHALL BE SET A MINIMUM OF 4'-0" BELOW FINISHED GRADE PER GEOTECHNICAL REPORT REFERENCED IN "FOUNDATION, NOTE#1" ON SHEET S-000.
- STEP FOOTING AS REQUIRED - G.C. SHALL COORDINATE LOCATION AND QUANTITY OF STEPS
- G.C. SHALL COORDINATE UTILITY ENTRANCES WITH CIVIL / PLUMBING / ELECTRICAL DRAWINGS FOR OCCURRENCES. LOCATIONS, SIZES AND ELEVATIONS. LOCATIONS NOTED ON THIS DRAWING ARE APPROXIMATE. REFER TO DETAIL C7/SB-501, STEP FOOTINGS AS REQUIRED.
- DIMENSIONS NOTED TO DOOR OPENINGS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.



DIMENSIONAL LAYOUT / FOUNDATIONS / PIER SIZES ARE PRELIMINARY. FINAL DIMENSIONS / FOUNDATIONS / PIER SIZES SHALL BE DETERMINED UPON RECEIPT AND APPROVAL OF FINAL PRE-ENGINEERED METAL BUILDING (PEMB) SHOP DRAWING SUBMITTAL PACKAGE INCLUDING MEMBER SIZES AND REACTIONS.

A1		STRUCTURAL ~ FOUNDATION PLAN									
1/8" = 1'-0"											
Scale: As indicated		Designed by: WILLIAM P. FAUCHER, P.E.									
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1											
		<p>THE GOLD STAR MEMORIAL HIGHWAY</p>									
		<p>AUBURN VEHICLE STORAGE GARAGE</p>									
		<p>STRUCTURAL - FOUNDATION PLAN</p>									
		<p>SHEET NUMBER: SB-100</p>									
		<p>CONTRACT: 2025.11</p>									
		<p>23 OF 36</p>									



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



THE GOLD STAR MEMORIAL HIGHWAY

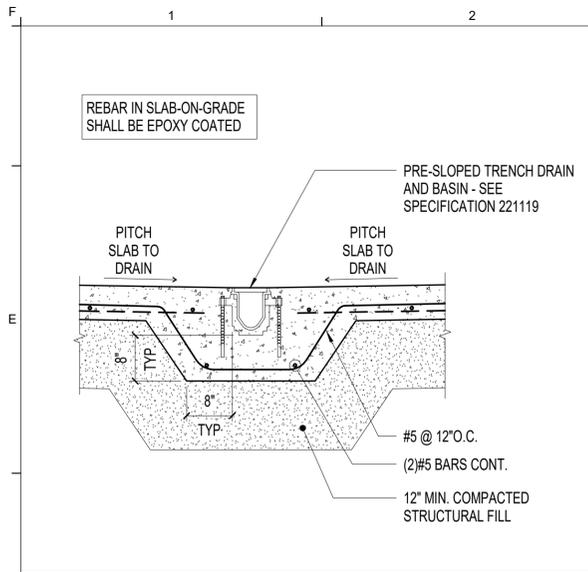
AUBURN VEHICLE STORAGE GARAGE
STRUCTURAL - FOUNDATION PLAN

SHEET NUMBER: SB-100

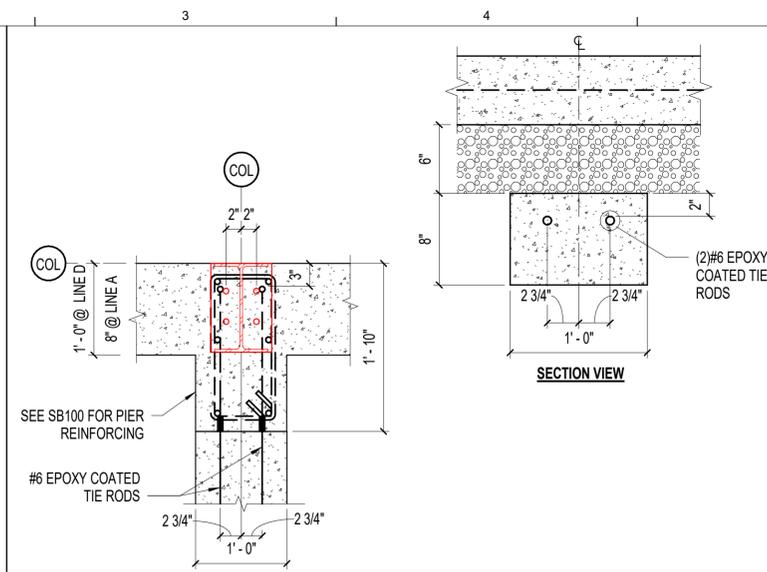
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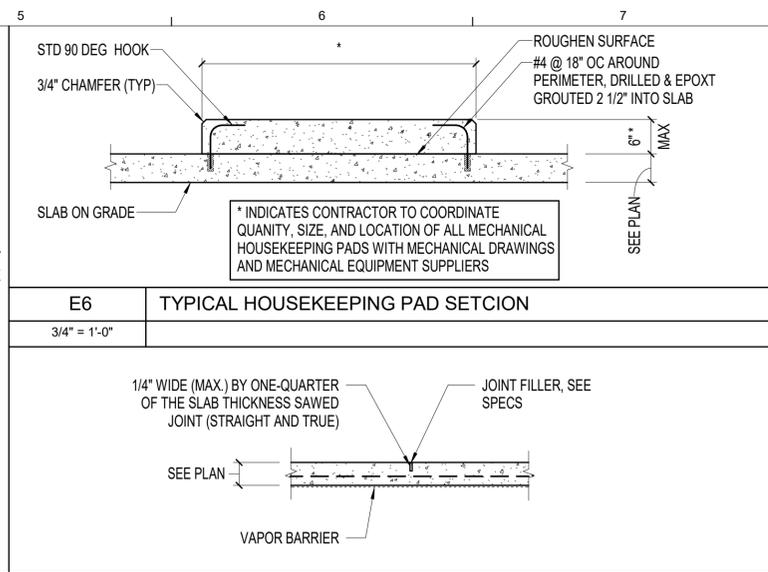
AEI PROJ. NO.: 2561-00178 CAD FILE: 2561-00178S_R22.rvt MTA PROJECT MANAGER: Brian A. Taddeo, P.E.



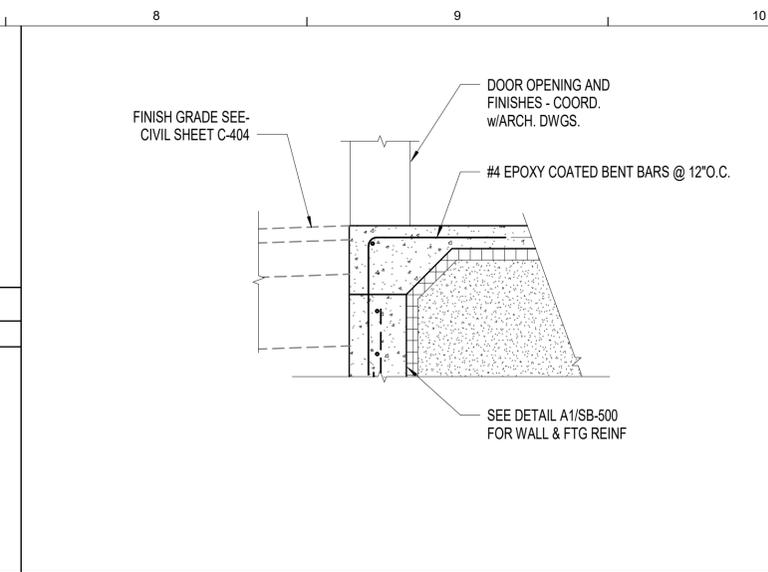
D1 DETAIL AT TRENCH DRAIN
3/4" = 1'-0"



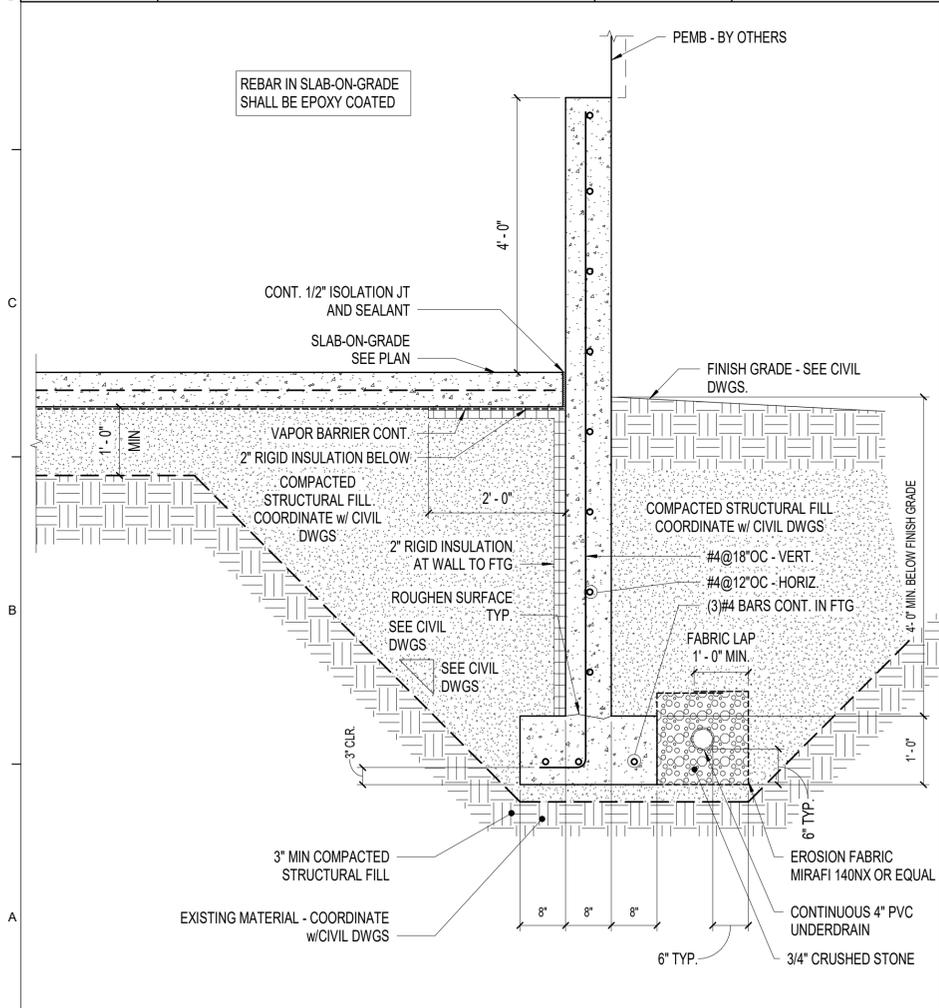
D3 TYPICAL TIE ROD DETAIL
1" = 1'-0"



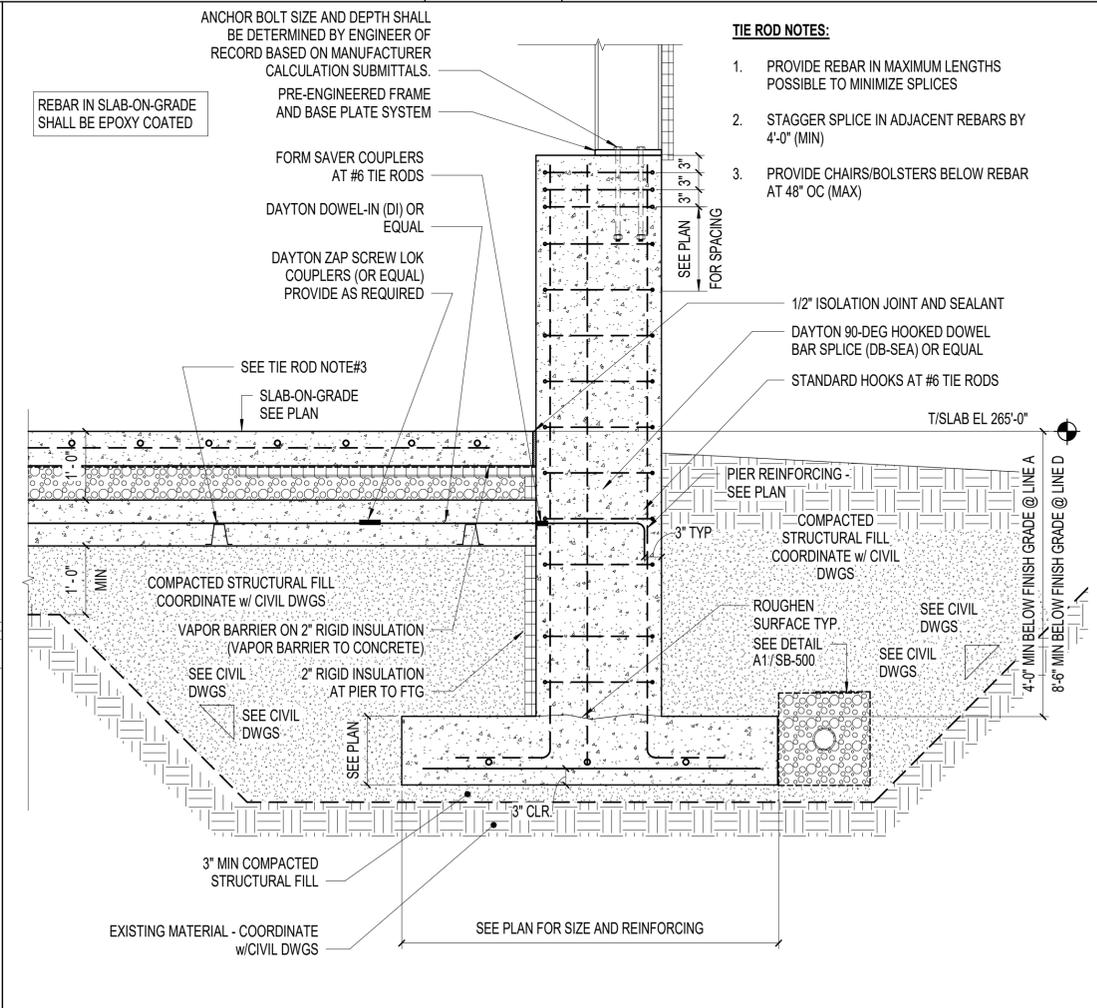
D6 TYPICAL CONTROL JOINT IN SLAB DETAIL
3/4" = 1'-0"



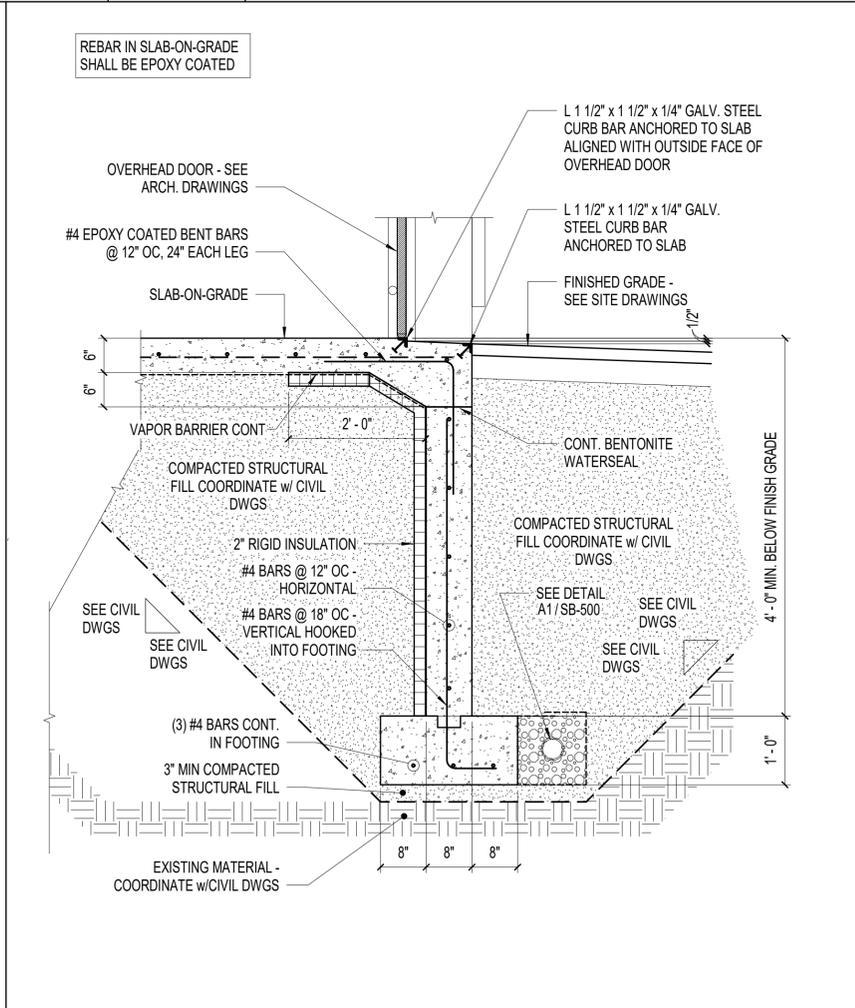
D8 TYPICAL SLAB ENTRY DETAIL
3/4" = 1'-0"



A1 TYPICAL 8" FDN WALL
3/4" = 1'-0"



A6 TYPICAL EXTERIOR PIER DETAIL
3/4" = 1'-0"



A8 TYPICAL AT OHD ENTRY
3/4" = 1'-0"

Scale: As indicated

No.	Revision	By	Date
1			

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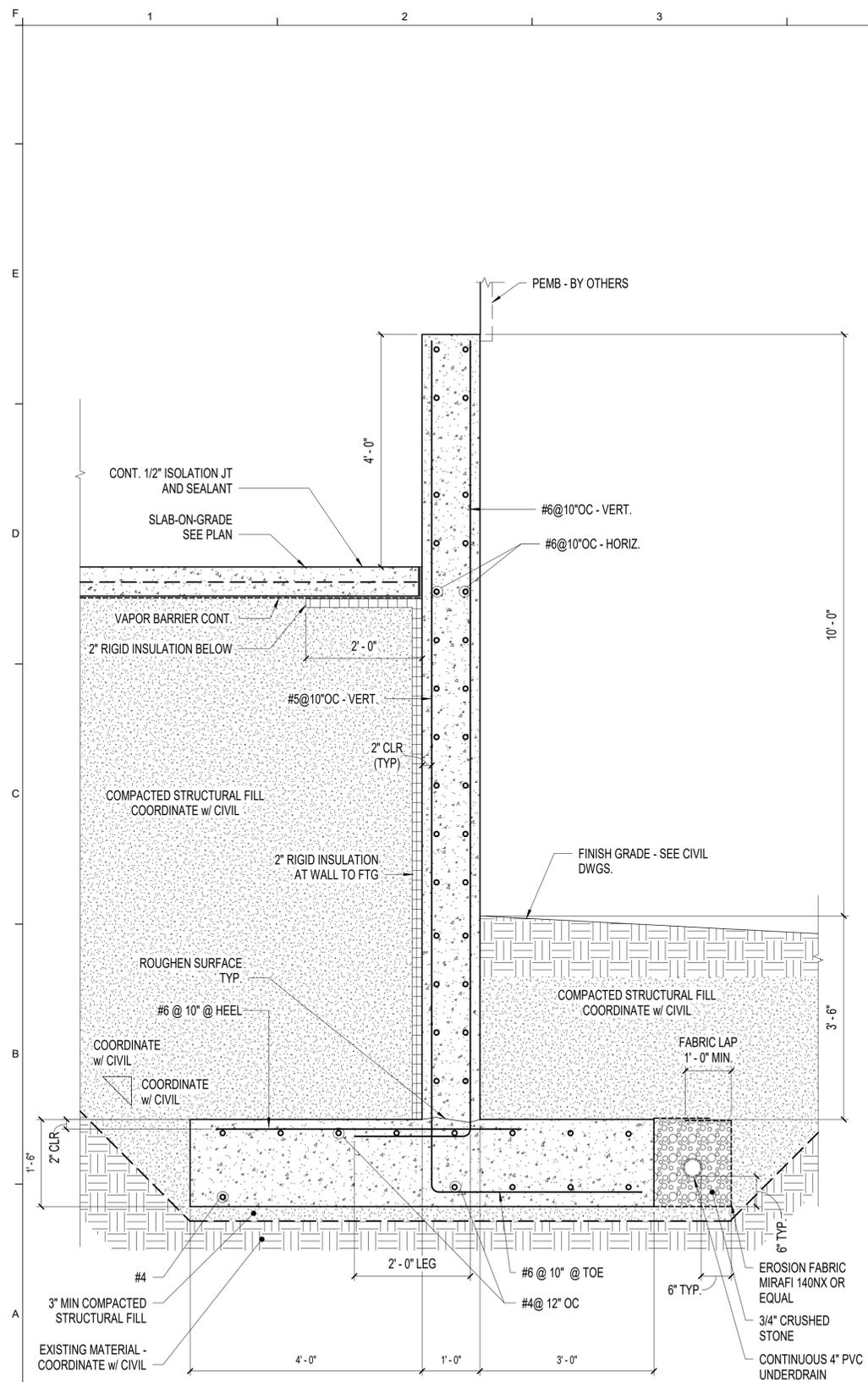
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Allied Engineering
A Salas O'Brien Company
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
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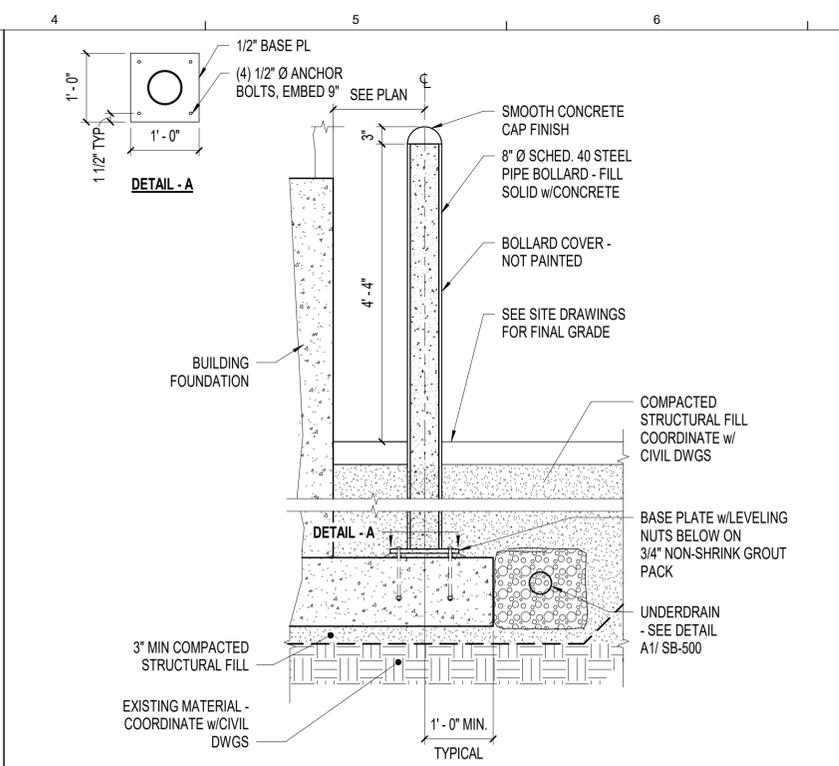
MAINE TURNPIKE
THE GOLD STAR MEMORIAL HIGHWAY

AUBURN VEHICLE STORAGE GARAGE
STRUCTURAL - FOUNDATION DETAILS - 1

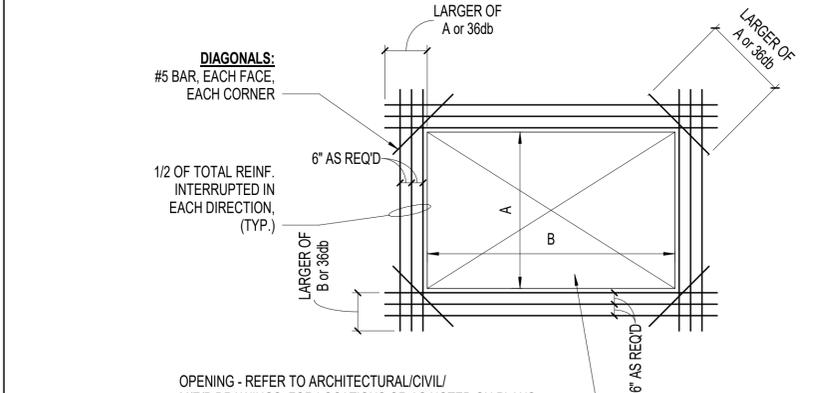
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A1 TYPICAL 12" FDN RETAINING WALL
3/4" = 1'-0"



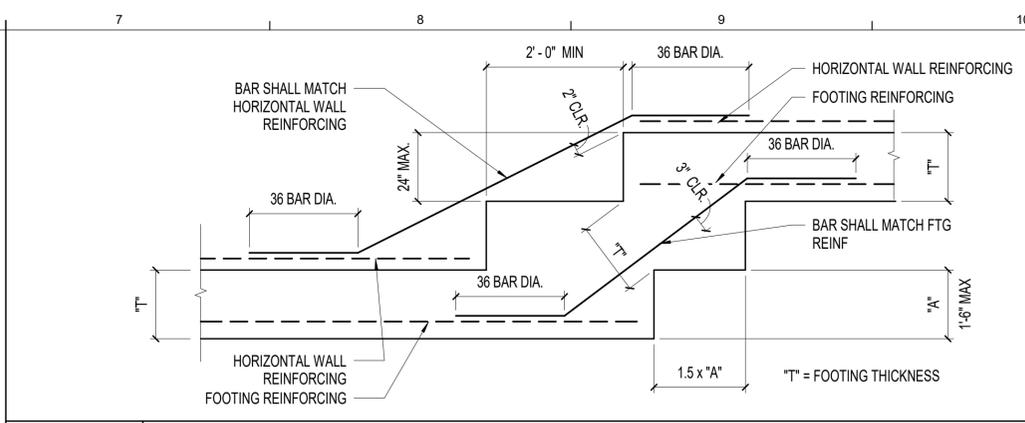
D4 TYPICAL BOLLARD DETAIL
3/4" = 1'-0"



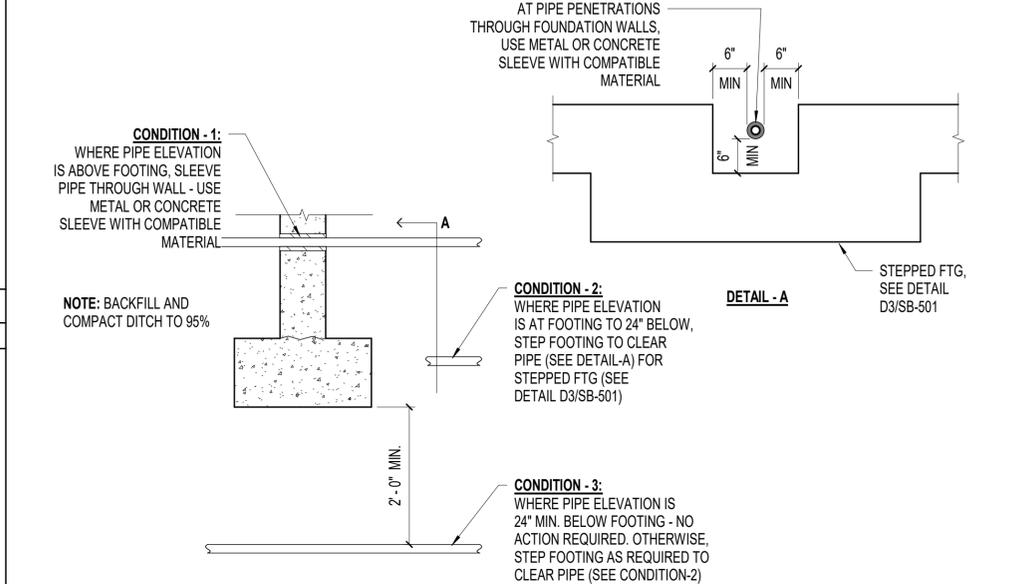
NOTES:

- ADDITIONAL BARS ARE NOT REQUIRED WHERE EDGE OF OPENING IS WITHIN 6-INCHES OF A BEAM OR WALL, AND PARALLEL THERETO.
- DIAGONAL BARS NOT REQUIRED AT OPENINGS SMALLER THAN 12-INCHES.
- PROVIDE HOOKED ENDS WHERE BAR EXTENSION SHOWN IS NOT POSSIBLE.
- IF MULTIPLE OPENINGS ARE REQUIRED - LOCATE OPENING EDGES 12-INCHES MINIMUM FROM EACH OTHER.
- THESE DETAILS APPLY EXCEPT WHERE SHOWN OTHERWISE.

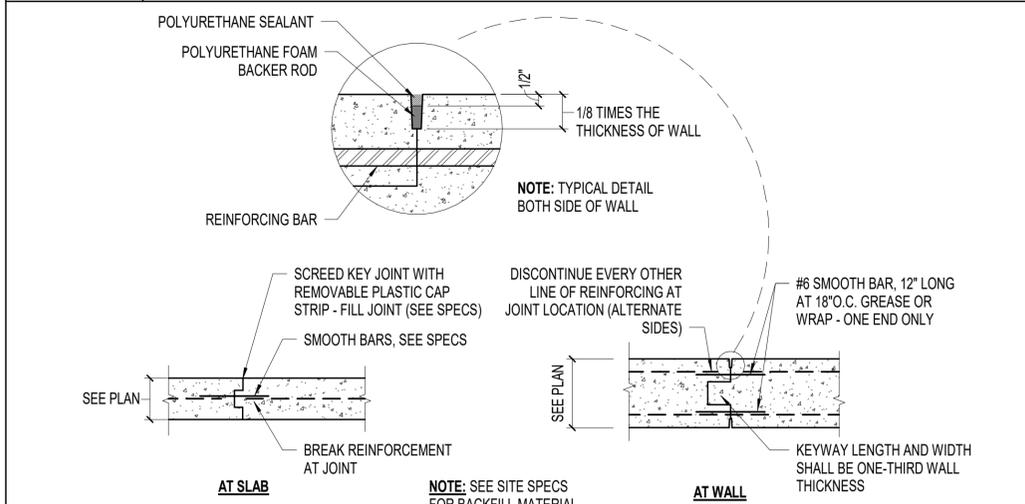
A4 TYPICAL ADDITIONAL REINFORCING FOR OPENING IN CONCRETE WALL/SLAB
3/4" = 1'-0"



E7 TYPICAL STEPPED FOOTING DETAIL
3/4" = 1'-0"



C7 TYPICAL PIPE AT FOOTING DETAIL
3/4" = 1'-0"



A7 TYPICAL WALL AND SLAB CONSTRUCTION JOINT DETAIL
3/4" = 1'-0"

Scale: As indicated

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A Salas O'Brien Company
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MAINE TURNPIKE
THE GOLD STAR MEMORIAL HIGHWAY

AUBURN VEHICLE STORAGE GARAGE
STRUCTURAL - FOUNDATION DETAILS - 2
SHEET NUMBER: SB-501
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PIPE ELBOW TURNED DN PIPE ELBOW TURNED UP PIPING TEE DOWN PIPING TEE UP PIPE RISER 45° ELBOW DOWN PIPING TO BE REMOVED CAPPED PIPING DIRECTION OF FLOW PIPE PITCHES DOWN UNION BACKFLOW PREVENTER FLEXIBLE CONNECTION SHUT-OFF/ISOLATION VALVE REFER TO SPECIFICATIONS GATE VALVE ~ OUTSIDE SCREW & YOKE (OS&Y) GLOBE VALVE LOCKABLE BALL VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE	BALANCING VALVE CIRCUIT SETTER AIR VENT ~ REFER TO SPECIFICATIONS STRAINER WITH BLOWDOWN VALVE AND CAP RELIEF/SAFETY VALVE PRESSURE GAUGE WITH COCK PRESSURE REDUCING VALVE PUMP ~ POINT OF TRIANGLE INDICATES DIRECTION OF FLOW GAS SHUT-OFF VALVE HOSE END DRAIN VALVE W/CAP THERMOMETER WITH COCK SOLENOID VALVE DIFFERENTIAL PRESSURE TRANSMITTER HOSE BIB/WALL HYDRANT FLOOR CLEANOUT WALL CLEANOUT	FLOOR DRAIN DUCTWORK ~ FIRST DIMENSION IS SIDE SHOWN IN INCHES S= SUPPLY, R= RETURN, E= EXHAUST AIR, OA= OUTSIDE AIR F.O. = FLAT OVAL DUCT TRANSITION SQUARE TO ROUND DUCT TRANSITION FLEX DUCT SUPPLY DUCT TURNED UP/DN RETURN DUCT TURNED UP/DN EXHAUST DUCT TURNED UP/DN ROUND DUCT TURNED UP/DN MITERED DUCT ELBOW W/TURNING VANES RADIUS DUCT ELBOW	DUCT/PIPE CAP (SINGLE/DOUBLE LINE) VOLUME DAMPER FIRE DAMPER SMOKE DAMPER FIRE AND SMOKE DAMPER BACKDRAFT DAMPER MOTORIZED DAMPER FLEXIBLE CONNECTION TEMPERATURE SENSOR OR THERMOSTAT (AS SPECIFIED) HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED) CARBON DIOXIDE SENSOR CARBON MONOXIDE SENSOR ACCESS PANEL DUCT SMOKE DETECTOR	ROOFTOP EXHAUST FAN CEILING SUPPLY DIFFUSER CEILING RETURN GRILLE CEILING EXHAUST GRILLE POINT OF CONNECTION - EXISTING TO NEW DIRECTION OF AIR FLOW REGISTER, GRILLE & DIFFUSER TAG DIFFUSER, REGISTER OR GRILLE No. QUANTITY CFM AIR FLOW FINTUBE TAG FINTUBE No. LENGTH GPM VAV TAG VAV No. MINIMUM CFM MAXIMUM CFM GPM EQUIPMENT TAG TYPE DESIGNATOR NUMBER EQUIPMENT TAG (ON FLOOR/ROOF ABOVE) TYPE DESIGNATOR NUMBER	<p>DETAIL REFERENCE SYMBOL DETAIL No. SHEET DETAIL LOCATED ON</p> <p>SECTION REFERENCE SYMBOL SECTION No. SHEET SECTION LOCATED ON</p> <p>NOTE ALL GENERAL NOTES, SYMBOL LEGENDS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING AND HVAC DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.</p>
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D1	SYMBOLS LEGEND
NONE	

<p>AW ACID WASTE</p> <p>ATV AIR RELIEF</p> <p>BBD BOILER BLOWDOWN</p> <p>C CONDENSATE (HVAC DRAIN PAN)</p> <p>CA COMPRESSED AIR</p> <p>CHWR CHILLED WATER RETURN</p> <p>CHWS CHILLED WATER SUPPLY</p> <p>CTR COOLING TOWER RETURN</p> <p>CTS COOLING TOWER SUPPLY</p> <p>CWR CONDENSER WATER RETURN</p> <p>CWS CONDENSER WATER SUPPLY</p> <p>DOMESTIC COLD WATER</p> <p>DOMESTIC HOT WATER</p> <p>DOMESTIC HOT WATER RECIRC.</p> <p>D DRAIN</p> <p>FM PUMP FORCE MAIN</p> <p>FOF FUEL OIL FILL</p> <p>FOR FUEL OIL RETURN</p> <p>FOS FUEL OIL SUPPLY</p> <p>FOV FUEL OIL TANK VENT</p> <p>FW FEEDWATER</p> <p>GR GLYCOL RETURN</p> <p>GS GLYCOL SUPPLY</p> <p>GW GREASE WASTE</p> <p>GWR GEOTHERMAL WATER RETURN</p> <p>GWS GEOTHERMAL WATER SUPPLY</p> <p>H HUMIDIFICATION LINE</p> <p>H2 HYDROGEN GAS</p>	<p>HCR HEAT/COOL RETURN</p> <p>HCS HEAT/COOL SUPPLY</p> <p>HPWR HEAT PUMP WATER RETURN</p> <p>HPWS HEAT PUMP WATER SUPPLY</p> <p>HPC HIGH PRESSURE CONDENSATE</p> <p>HPS HIGH PRESSURE STEAM</p> <p>HTWR HIGH-TEMP HOT WATER RETURN</p> <p>HWR HOT WATER RETURN</p> <p>HWS HOT WATER SUPPLY</p> <p>IND INDUSTRIAL WASTE</p> <p>IW INDIRECT WASTE</p> <p>LN LIQUID NITROGEN</p> <p>LOX LIQUID OXYGEN</p> <p>LP LIQUID PETROLEUM GAS</p> <p>LPR LOW PRESSURE CONDENSATE</p> <p>LPS LOW PRESSURE STEAM</p> <p>MA MEDICAL AIR</p> <p>MPR MEDIUM PRESSURE CONDENSATE</p> <p>MPS MEDIUM PRESSURE STEAM</p> <p>MUW MAKE-UP WATER</p> <p>N2 NITROGEN</p> <p>NG NATURAL GAS</p> <p>NO NITROUS OXIDE</p> <p>NPW NON-POTABLE WATER</p> <p>OX OXYGEN</p> <p>PC PUMPED CONDENSATE</p> <p>PCWR PROCESS COLD WATER RETURN</p> <p>PCWS PROCESS COLD WATER SUPPLY</p> <p>RD REFRIGERANT DISCHARGE</p>	<p>RL REFRIGERANT LIQUID</p> <p>RS REFRIGERANT SUCTION</p> <p>RO REVERSE OSMOSIS WATER</p> <p>RW RAIN WATER - ABOVE FLOOR</p> <p>RW RAIN WATER - BELOW GRADE</p> <p>RWO RAIN WATER OVERFLOW - ABOVE FLOOR</p> <p>RWO RAIN WATER OVERFLOW - BELOW GRADE</p> <p>SP SPRINKLER MAIN PIPING</p> <p>SWR SOLAR WATER RETURN</p> <p>SWS SOLAR WATER SUPPLY</p> <p>TP TRAP PRIMER - ABOVE FLOOR</p> <p>TP TRAP PRIMER - BELOW GRADE</p> <p>TWR TEMPERED WATER RETURN</p> <p>TWS TEMPERED WATER SUPPLY</p> <p>V SANITARY SOIL VENT - ABOVE FLOOR</p> <p>V SANITARY SOIL VENT - BELOW GRADE</p> <p>VAC VACUUM (AIR)</p> <p>VC VACUUM CLEANING (HOUSE)</p> <p>VPD VACUUM PUMP DISCHARGE</p> <p>W SANITARY SOIL WASTE - ABOVE FLOOR</p> <p>W SANITARY SOIL WASTE - BELOW GRADE</p> <p>WV SANITARY WET VENT - ABOVE FLOOR</p> <p>WV SANITARY WET VENT - BELOW GRADE</p>	<p>AAV AUTOMATIC AIR VENT</p> <p>AD ACCESS DOOR</p> <p>AFF; A.F.F. ABOVE FINISHED FLOOR</p> <p>AHU AIR HANDLING UNIT</p> <p>AP ACCESS PANEL</p> <p>APPROX. APPROXIMATE; APPROXIMATELY</p> <p>ATC AUTOMATIC TEMPERATURE CONTROL</p> <p>AV AIR VENT</p> <p>BDD BACKDRAFT DAMPER</p> <p>BFP BACKFLOW PREVENTER</p> <p>BLDG BUILDING</p> <p>BOD BOTTOM OF DUCT</p> <p>CONV. CONVECTOR</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>CLG CEILING</p> <p>CO CLEANOUT</p> <p>CONN CONNECT; CONNECTION</p> <p>CONT. CONTINUE; CONTINUATION</p> <p>COORD. COORDINATE</p> <p>CTE CONNECT TO EXISTING</p> <p>CTR CENTER</p> <p>CU COPPER; CONDENSING UNIT</p> <p>DDC DIRECT DIGITAL CONTROL</p> <p>DIC DOWN IN CHASE</p> <p>DIW DOWN IN WALL</p> <p>DN DOWN</p> <p>EF EXHAUST FAN</p> <p>ELEV ELEVATION</p>	<p>ENC ENCLOSURE</p> <p>ERU ENERGY RECOVERY UNIT</p> <p>ET EXPANSION TANK</p> <p>(E) EXISTING</p> <p>FC FLEXIBLE CONNECTION</p> <p>FCO FLOOR CLEANOUT</p> <p>FD# FLOOR DRAIN TAG</p> <p>FD FIRE DAMPER</p> <p>FTG FOOTING</p> <p>GC GENERAL CONTRACTOR</p> <p>GPM GALLONS PER MINUTE</p> <p>GRV GRAVITY ROOF VENTILATOR</p> <p>H HUMIDIFIER</p> <p>HB HOSE BIBB</p> <p>HC; HDC HANDICAP ACCESS</p> <p>HGT; HT HEIGHT</p> <p>HP HEAT PUMP</p> <p>HRU HEAT RECOVERY UNIT</p> <p>HVAC HEATING, VENTILATING AND AC</p> <p>HW HOT WATER</p> <p>HWR HOT WATER RETURN</p> <p>HWS HOT WATER SUPPLY</p> <p>HX HEAT EXCHANGER</p> <p>INCL. INCLUDING</p> <p>LP LIQUID PETROLEUM GAS</p> <p>LPR LOW PRESSURE STEAM RETURN</p> <p>LPS LOW PRESSURE STEAM SUPPLY</p> <p>MAX MAXIMUM</p>	<p>MBH 1000 BTUH/hr.</p> <p>MFR MANUFACTURER</p> <p>MIN MINIMUM</p> <p>MOD MOTOR OPERATED DAMPER</p> <p>MTD MOUNTED</p> <p>MTG MOUNTING</p> <p>MUA MAKE UP AIR</p> <p>N.C. NORMALLY CLOSED</p> <p>N.O. NORMALLY OPEN</p> <p>NG NATURAL GAS</p> <p>NIC NOT IN CONTRACT</p> <p>NPT NATIONAL PIPE THREAD</p> <p>NTS NOT TO SCALE</p> <p>OD OUTSIDE DIAMETER</p> <p>OED OPEN ENDED DUCT</p> <p>P# PLUMBING FIXTURE TAG</p> <p>PRS PRESSURE REDUCING STATION</p> <p>RD ROOF DRAIN</p> <p>RHC REHEAT COIL</p> <p>RM ROOM</p> <p>RPZ REDUCED PRESSURE BFP</p> <p>RR RETURN REGISTER</p> <p>RV RELIEF VALVE</p> <p>RW RAIN WATER</p> <p>S SUPPLY AIR</p> <p>SA- " SHOCK ABSORBER OF PDI SIZE (" ") AS INDICATED</p> <p>SCV SELF-CONTAINED VALVE</p>	<p>SPLR SPRINKLER</p> <p>SQ. FT; SF SQUARE FEET</p> <p>S.S. STAINLESS STEEL</p> <p>TD TRENCH DRAIN</p> <p>TP TRAP PRIMER</p> <p>TSP TOTAL STATIC PRESSURE</p> <p>TTS TIGHT TO STEEL</p> <p>TYP TYPICAL</p> <p>UH UNIT HEATER</p> <p>UIC UP IN CHASE</p> <p>UIW UP IN WALL</p> <p>VAC VACUUM</p> <p>VCF VALVE & CAP FOR FUTURE</p> <p>W/ WITH</p> <p>WB WET BULB TEMPERATURE, °F</p> <p>WCO WALL CLEANOUT</p> <p>WH WATER HEATER</p> <p>WHYD WALL HYDRANT</p>
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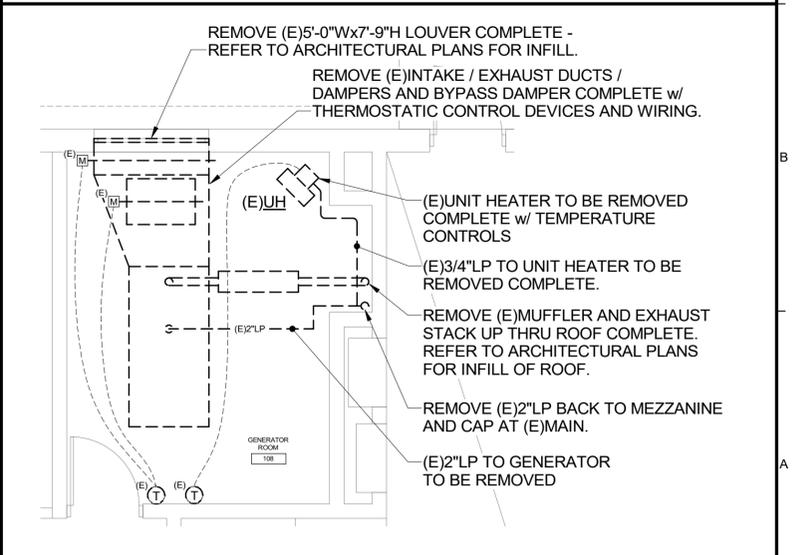
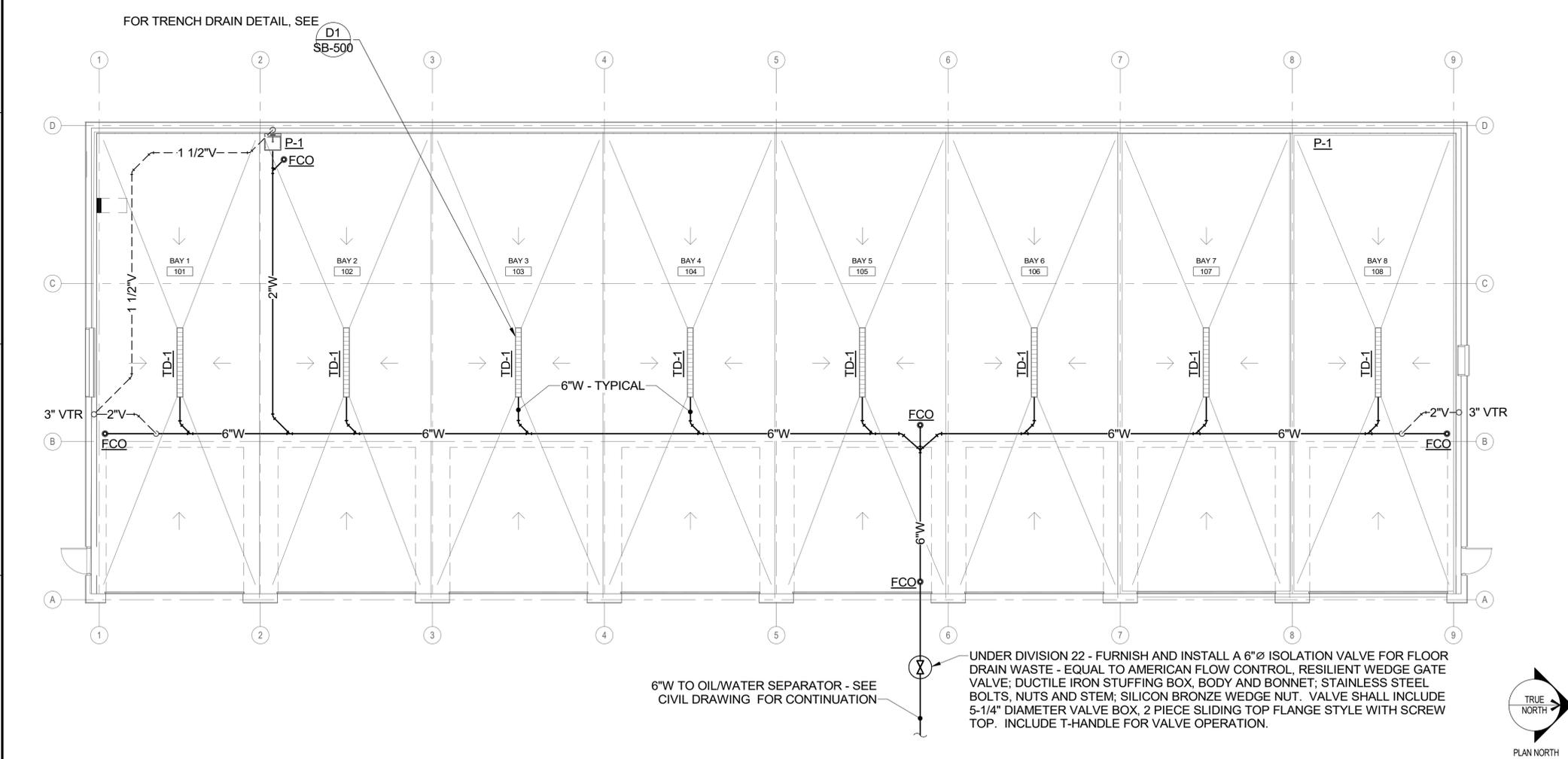
A1	PIPING LINETYPE LEGEND	A5	ABBREVIATIONS
NONE		NONE	

<p>Scale: 12" = 1'-0"</p> <table border="1"> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	Revision	By	Date					<p>Designed by: </p> <p>Anthony S. Davis, PE</p>	<p>Allied Engineering A Salas O'Brien Company</p> <p>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266</p>	<p>THE GOLD STAR MEMORIAL HIGHWAY</p>	<p>AUBURN VEHICLE STORAGE GARAGE PLUMBING AND HVAC NOTES, LEGEND AND ABBREVIATIONS</p>				
No.	Revision	By	Date													
<table border="1"> <tr> <td>Designed:</td> <td>ASD</td> <td>04/25/2025</td> <td>Checked:</td> <td>ASD</td> <td>04/25/2025</td> </tr> <tr> <td>Drawn:</td> <td>REW</td> <td>04/25/2025</td> <td></td> <td></td> <td></td> </tr> </table>	Designed:	ASD	04/25/2025	Checked:	ASD	04/25/2025	Drawn:	REW	04/25/2025				<p>SO PROJ.NO.: 2561-00178 CAD FILE:</p>	<p>MTA PROJECT MANAGER: Brian A. Taddeo, P.E.</p>	<p>CONTRACT: 2025.11</p>	<p>SHEET NUMBER: P000</p> <p>26 OF 36</p>
Designed:	ASD	04/25/2025	Checked:	ASD	04/25/2025											
Drawn:	REW	04/25/2025														

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
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
NOTES: 1. REFER TO (D7-PP 100) FOR VFD CONTROLLER LOCATION												

D1	PLUMBING SCHEDULES
NONE	



A1	SANITARY PIPING PLAN	A8	DEMOLITION PART PLAN - EXISTING GARAGE
1/8" = 1'-0"		1/4" = 1'-0"	

Scale: As indicated

No.	Revision	By	Date

Designed by: *Anthony S. Davis*

Anthony S. Davis, PE

By	Date	By	Date
ASD	04/25/2025	ASD	04/25/2025
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:

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

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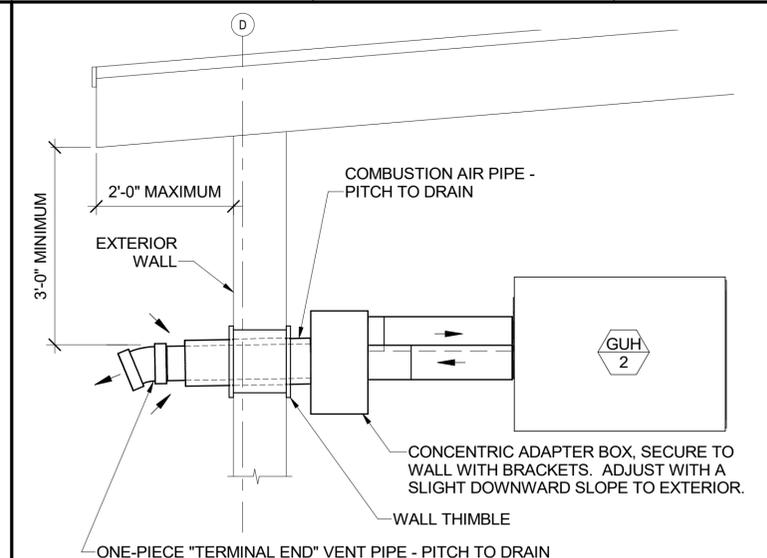
LOUVER SCHEDULE													
TAG	MAKE - MODEL	AIR SYSTEM	DUTY	CFM	DIMENSIONS					BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ./SF	MAX P.D. MAX W.C.	SCREEN	NOTES
					HEIGHT (IN.)	WIDTH (IN.)	MIN. FREE AREA (SF)	NET VELOCITY (FT/MIN)	% FREE AREA				
L-1	RUSKIN ELF445DX	EF-1	INTAKE	13,500	72	96	26	519.2	54.2%	4"	873 FPM	0.06	SEE SPEC

FAN SCHEDULE														
TAG	SERVES	MANUFACTURER-MODEL	TYPE	DRIVE	CFM		ESP	MOTOR HP	VOLTS/PH	VFD	MAX SONES	DAMPER	WEIGHT (LBS.)	NOTES
					HI	LO								
EF-1	GARAGE EXHAUST	LOREN COOK - 36XMWH	WALL MOUNT w/HOOD	DIRECT	13,500	6,000	0.6	3	208/3	YES	30.0	MOD	500	1, 3, 4, 5
DF-1 thru 4	DESTRATIFICATION	ZOO FANS H60 PREMIUM	DESTRAT. FAN	DIRECT	1,500	1,500	--	106w	115/1	NO	--	N/A	23	2

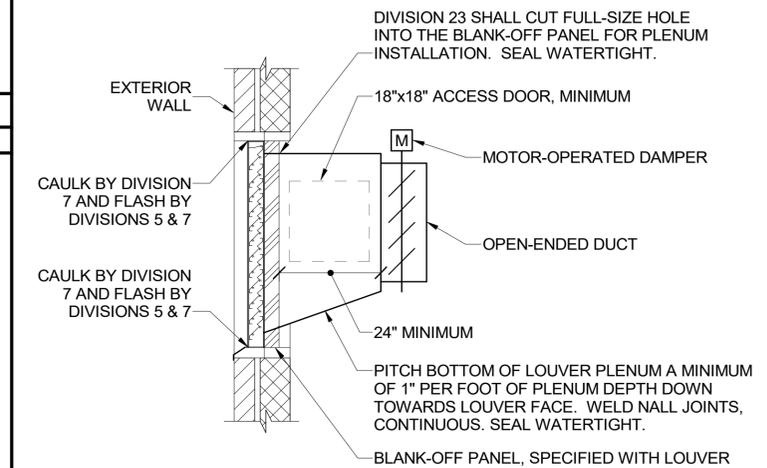
NOTES:
 1. PROVIDE UNIT MOUNTED FACTORY DISCONNECT SWITCH AND STARTER.
 2. PROVIDE WALL MOUNTED VARIABLE SPEED CONTROLLER.
 3. INTERLOCK WITH LOUVER AND EF MOD'S
 4. PROVIDE WALL MOUNTED TIMER SWITCH AS MANUFACTURED BY INTERMATIC, MODEL FF2H OR EQUAL. COORDINATE WITH DIVISION 26 FOR OPERATION AS SPECIFIED.
 5. PROVIDE WALL MOUNTED VARIABLE SPEED DRIVE EQUAL TO INVERTEK E3 SERIES, 230 V SINGLE PHASE INPUT, 230 V THREE PHASE OUTPUT.

LP GAS FIRED SEALED COMBUSTION UNIT HEATER SCHEDULE																			
TAG	SERVES	MFR. -MODEL	SIZE	TYPE	EXPOSED FACE DIM.	DEPTH DIM.	WEIGHT LBS	INPUT MBH	OUTPUT MBH	DISCHARGE TEMP RISE	GAS PRESSURE RANGE (MIN-MAX)	GAS CONN. SIZE	CFM	VENT CONN.	COMB. AIR	MOTOR HP	MOP (AMPS)	ELECT	NOTES
GUH-1	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBUSTION	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2
GUH-2	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBUSTION	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2
GUH-3	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBUSTION	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2

NOTES: 1. Standard Built-in (20A) Disconnect Switch
 2. Concentric Venting



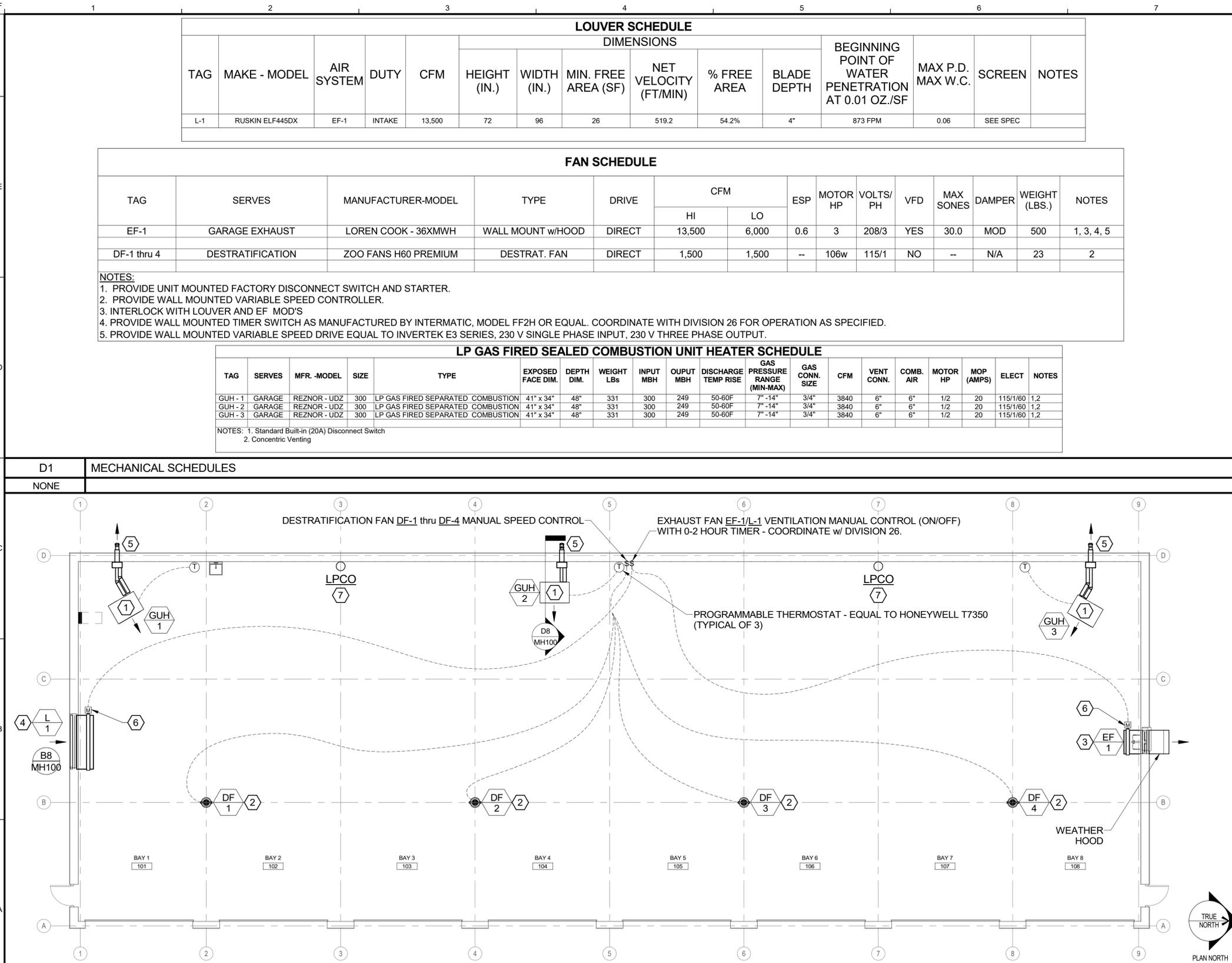
D8 | **DETAIL - GAS FIRED UNIT HEATER CONCENTRIC VENTING**
 NOT TO SCALE | TYPICAL FOR ALL



B8 | **DETAIL - EXTERIOR LOUVER**
 NOT TO SCALE

- ① MOUNT UNIT HIGH AS POSSIBLE, TIGHT TO ROOF STRUCTURE, MAINTAINING MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES - APPROXIMATELY 13'-0" ABOVE FINISHED FLOOR.
- ② BOTTOM OF FAN = 14'-0" ABOVE FINISHED FLOOR.
- ③ BOTTOM OF FAN = 9'-6" ABOVE FINISHED FLOOR.
- ④ BOTTOM OF LOUVER = 9'-0" ABOVE FINISHED FLOOR.
- ⑤ CONCENTRIC 6" EXHAUST VENT / 8" OUTSIDE AIR VENT THRU EXTERIOR WALL.
- ⑥ LINE VOLTAGE MOD (110v) - COORDINATE w/DIVISION 26.
- ⑦ LP GAS AND CARBON MONOXIDE DETECTOR - EQUAL TO MINI MERLIN LPGCO OR EQUAL, 120v AC, 90 mA MAX, 500-10,000 PPM MEASURING RANGE FOR LP GAS, 0-1,000 PPM FOR CO.
 GAS VALUE PRE-ALARM = > 8% LEL FOR LP GAS, 20 PPM FOR CO.
 GAS VALUE ALARM = > 10% LEL FOR LP GAS, 20 PPM AFTER 2 HOURS / 50 PPM AFTER 1 HOUR / 100 PPM AFTER 10 MINUTES / 300 PPM AFTER 1 MINUTE FOR CO.

A8 | **KEYED NOTES**
 NONE



A1 | **MECHANICAL PLAN**
 1/8" = 1'-0"

Scale: As indicated

No.	Revision	By	Date

Designed by: *Anthony S. Davis*
 Anthony S. Davis, PE

By	Date	By	Date
ASD	04/25/2025	ASD	04/25/2025
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

MAINE TURNPIKE
THE GOLD STAR MEMORIAL HIGHWAY
 MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

AUBURN VEHICLE STORAGE GARAGE MECHANICAL PLAN
 SHEET NUMBER: MH100
 CONTRACT: 2025.11
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A	AMPERE	MC	MICROPHONE
AC	ALTERNATING CURRENT	MW	MICROWAVE
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUG ONLY
AFG	ABOVE FINISHED GRADE	MT	MOUNT
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BKBD	BACKBOARD	N	NEUTRAL
C	CONDUIT	NC	NORMALLY CLOSED
CAT	CATALOG, CATEGORY	NEC	NATIONAL ELECTRICAL CODE
CATV	CABLE TV	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CM	CIRCULAR MILS	NF	NON-FUSED
COMM	COMMUNICATIONS	NO	NORMALLY OPEN
CU	MECH CONDENSING UNIT	NO., #	NUMBER
CU	COPPER	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	OC	ON CENTER
CR	CORD REEL		
DC	DIRECT CURRENT	OCC	OCCUPANCY
DDC	DIGITAL DIRECT CONTROL	OH	OVERHEAD
DN	DOWN	P	POLE
DW	DISHWASHER	PA	PUBLIC ADDRESS
DWG	DRAWING	PB	PULLBOX
EF	EXHAUST FAN	PH, Ø	PHASE
ELEV	ELEVATOR	PIR	PASSIVE INFRARED
EMT	ELECTRICAL METALLIC TUBING	PNL	PANELBOARD
EP	EXPLOSION PROOF	P/O	PART OF
ERU	ENERGY RECOVERY UNIT	PV	PHOTOVOLTAIC
EWC	ELECTRIC WATER COOLER	PVC	POLY-VINYL CHLORIDE
FACP	FIRE ALARM CONTROL PANEL	REC	RECEPTACLE
FB	FLOOR BOX	REF	REFRIGERATOR
FLA	FULL LOAD AMPS	RF	RETURN FAN
FWE	FURNISHED WITH EQUIPMENT	RGS	RIGID GALVANIZED STEEL
G, GND	GROUND	RM	ROOM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RMC	RIGID METAL CONDUIT
GFP	GROUND FAULT PROTECTION	RTU	ROOFTOP UNIT
HID	HIGH INTENSITY DISCHARGE	REF	REFRIGERATOR
HOA	HAND-OFF-AUTO SELECTOR SWITCH	SF	SUPPLY FAN
HP	HORSEPOWER	SPDT	SINGLE POLE, DOUBLE THROW
HVAC	HEATING, VENTILATION AND COOLING UNIT	SQ	SQUARE
IDS	INTRUSION DETECTION SYSTEM	TEL	TELEPHONE
IG	ISOLATED GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
IMC	INTERMEDIATE METAL CONDUIT	TYP	TYPICAL
IR	INFRARED	UF	UNDER FLOOR
K	KILO	UG	UNDERGROUND
KCMIL	KILO CIRCULAR MILS	UH	UNIT HEATER
KW	KILOWATT	UL	UNDERWRITER'S LABORATORY
KVA	KILO VOLT-AMPS	UNO	UNLESS NOTED OTHERWISE
LAN	LOCAL AREA NETWORK	UPS	UNINTERRUPTIBLE POWER SUPPLY
LC	LIGHTING CONTACTOR	V	VOLTS
LF	LINEAR FEET	VFD	VARIABLE FREQUENCY DRIVE
LC	LOADCENTER	W	WATT
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF
LED	LIGHT EMITTING DIODE	WG	WIREGUARD
LTG	LIGHTING	XFMR	TRANSFORMER
LTS	LIGHTS		
MAX	MAXIMUM	(E)	EXISTING ITEM TO REMAIN
MCB	MAIN CIRCUIT BREAKER	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
MECH	MECHANICAL	(ER)	RELOCATED ITEM AT NEW LOCATION
MH	MOUNTING HEIGHT	(RL)	REMOVE AND RELOCATE

SWITCHES

\$a LIGHT SWITCH, 20A, 125/277V

\$3 THREE-WAY LIGHT SWITCH

\$4 FOUR-WAY LIGHT SWITCH

\$2 TWO-POLE SWITCH

\$M MOTOR RATED SWITCH WITH THERMAL OVERLOAD

\$P SINGLE POLE SWITCH WITH RED PILOT LIGHT - RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED

\$a \$b MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING

\$os OCCUPANCY SENSOR SWITCH, WALL MOUNTED

OS OCCUPANCY SENSOR, CEILING MOUNTED

OS- OCCUPANCY SENSOR, WALL MOUNTED

\$LV LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT GROUPS

\$LVab LOW VOLTAGE LIGHT SWITCH CONTROLLING MULTIPLE LIGHTING

LTC LIGHTING TIME CLOCK

LC LIGHTING CONTACTOR

LCP LIGHTING CONTROL PANEL

PC OUTDOOR PHOTOELECTRIC SWITCH

- NOTES:
- MOUNT LIGHT SWITCHES WITH CENTERLINE 54" AFF, UNO
 - LOWER CASE LETTER AT SWITCH INDICATES SWITCHING

- ### EMERGENCY LIGHTING
- EM HATCHING INDICATES EGRESS FIXTURE WITH BATTERY BALLAST ~ "EM" INDICATES EMERGENCY WHERE SYMBOL HATCHING IS UNCLEAR
- EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- INV CENTRAL LIGHTING INVERTER

REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPES

TYPICAL FOR ALL FIXTURE TYPES :

R1 INDICATES LUMINAIRE TYPE ON SCHEDULE

a LOWER CASE LETTER INDICATES SWITCH GROUP

- ### SINGLE RECEPTACLES
- MOUNT 54" AFF U.N.O.
- REFER TO SPECIAL RECEPTACLE SCHEDULE
- CD OVERHEAD SINGLE RECEPTACLE CORD DROP
- NOTE:
- PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES FOR NEW EQUIPMENT AND WHERE NOTED FOR RELOCATED EQUIPMENT

- ### FLOOR AND CEILING DEVICES
- F DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- F DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- P DUPLEX RECEPTACLE, PEDESTAL MOUNTED
- P SINGLE RECEPTACLE, PEDESTAL MOUNTED
- C DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DOUBLE DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- CR OVERHEAD RECEPTACLE DROP, DUPLEX - CR= CORD REEL
- CR OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX - CR= CORD REEL
- CR OVERHEAD RECEPTACLE DROP, GFCI - CR= CORD REEL
- J2 2-GANG JUNCTION BOX IN FLUSH FLOOR BOX

- ### RECEPTACLES
- DUPLEX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R
- DOUBLE DUPLEX RECEPTACLE
- GFCI DUPLEX RECEPTACLE, MOUNT 40" AFF UNO
- GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 40" AFF UNO
- EWC GFCI RECEPTACLE FOR ELECTRIC WATER COOLER - COORDINATE LOCATION WITH DIVISION 22.
- WP GFCI RECEPTACLE WITH WEATHERPROOF COVER
- WP GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF

- NOTES:
- MOUNT RECEPTACLES WITH CENTERLINE 45" AFF UNO
 - MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 40" AFG UNO

- ### POWER DISTRIBUTION
- PANELBOARD ~ SURFACE MOUNTED
- PANELBOARD ~ FLUSH MOUNTED
- AS AF FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- 00 MOTOR STARTER ~ NUMBER INDICATES NEMA SIZE
- 00 COMBINATION MOTOR STARTER/FUSED DISCONNECT
- MOTOR OR FAN
- M METER AND CABINET
- J JUNCTION BOX
- J- JUNCTION BOX ~ WALL MOUNTED
- J- DOUBLE GANG JUNCTION BOX ~ WALL MTD 18" AFF
- C J JUNCTION BOX ~ FLUSH CEILING MOUNTED
- P J JUNCTION BOX ~ PEDESTAL MOUNTED
- TR TRANSFORMER ~ NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
- VFD VARIABLE FREQUENCY DRIVE
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- S- POWER SHUTOFF SWITCH ~ WALL MOUNTED 48" TO CENTER LINE
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- WIRING UNDERGROUND OR UNDERSLAB
- WIRING OVERHEAD
- HOMERUN ~ (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- FLEXIBLE CONNECTION
- GROUNDING SYSTEM
- MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~ FURNISHED BY DIV 08, WIRED BY DIV 26
- CB ENCLOSED CIRCUIT BREAKER
- ATS AUTOMATIC TRANSFER SWITCH
- H- HAND DRYER, COORDINATE HEIGHT WITH ARCHITECTURAL PLANS
- ENCLOSED CONTACTOR
- OVERHEAD DATA DROP
- C DATA OUTLET FLUSH IN CEILING
- H HANDHOLE, MINIMUM 18"x36"x24". SIZE PER NEC FOR NUMBER OF CONDUITS INSTALLED.

- FACP FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- FAA FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF, WIRED TO FACP
- S SMOKE DETECTOR, WIRED TO FACP "E" INDICATES CONNECTION FOR ELEVATOR RECALL, WIRED TO FACP
- H HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL, WIRED TO FACP
- G GAS DETECTOR, WIRED TO FACP
- CO CARBON MONOXIDE DETECTOR, WIRED TO FACP
- L FLAME DETECTOR, WIRED TO FACP
- MD MAGNETIC DOOR HOLD OPEN DEVICE, WIRED TO FACP
- KNOX BOX, MOUNT 60" AFF
- MANUAL PULL STATION, MOUNT 48" AFF
- HORN/STROBE, WALL MOUNTED CANDELA AS NOTED ON PLANS, WIRED TO FACP. MOUNT 80" AFF TO BOTTOM, OR 6" BELOW CEILING, WHICH EVER IS LOWER.
- STROBE ONLY INDICATING APPLIANCE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP
- HORN/STROBE WITH PULL STATION DIRECTLY BELOW, MOUNT 80" AFF TO BOTTOM, OR 6" BELOW CEILING, WHICH EVER IS LOWER.

D9	FIRE ALARM
NONE	

- CR CARD READER ~ PROVIDE RECESSED WALL MOUNTED SINGLE-GANG BOX 44" AFF WITH 3/4" CONDUIT. EXTERIOR BOXES SHALL BE WEATHERPROOF. DIVISION 26 TO PROVIDE 3/4" CONDUIT FROM CARD READER TO JUNCTION BOX FOR SECURITY PANEL LOCATED IN IO.T.203. FURNISH AND INSTALL ACCESS CONTROL CABLE (TAPPAN MODEL H91602-1) PER MTA REQUIREMENTS. COORDINATE LOCATION OF SECURITY PANEL WITH OWNER. CARD READER (MODEL ALLEGIAN MT15) PROVIDED BY OTHERS.

- L DOOR LOCK ~ PROVIDE EMPTY 1/2" RECESSED CONDUIT WITH PULL STRING IN DOOR FRAME, RUN FROM DOOR LOCK LOCATION IN FRAME TO DOOR LOCK POWER LOCATION.

- D DOOR LOCK POWER ~ POWER SUPPLIES BY OTHERS.

- ### NOTES
- DOOR HARDWARE BY DIV 8 U.N.O.
 - LOW VOLTAGE WIRING AND DEVICES BY OWNER UNLESS NOTED OTHERWISE.
 - CONDUITS SHALL BE RUN CONCEALED FROM EACH OUTLET BOX OR TERMINATION TO 6" ABOVE THE NEAREST ACCESSIBLE CORRIDOR CEILING THAT IS CONTIGUOUS TO THE NEAREST IT ROOM, J-HOOK OR CABLE TRAY PATHWAY, UNO. IN ROOMS WITHOUT CEILINGS, CONDUIT SHALL BE RUN AT UNDERSIDE OF DECK TO 6" ABOVE THE NEAREST ACCESSIBLE CORRIDOR CEILING THAT IS CONTIGUOUS TO THE NEAREST IT ROOM, J-HOOK OR CABLE TRAY PATHWAY, UNO. CONDUIT PATHWAYS SHALL BE PROVIDED FOR ANY PORTIONS OF THE PATH TO NEAREST IT ROOM, J-HOOK, OR CABLE TRAY THAT HAS EXPOSED DECK OR HAS INACCESSIBLE CEILINGS.
 - DIVISION 26 SHALL PROVIDE 120 VOLT POWER WHERE INDICATED. DIV 26 SHALL PROVIDE EMPTY BOXES AND CONDUITS WITH PULL STRING U.N.O.

A1	ABBREVIATIONS	A3	LIGHTING	A5	RECEPTACLES	A7	POWER DISTRIBUTION	A9	SECURITY LEGEND
NONE		NONE		NONE		NONE		NONE	

Scale: 12" = 1'-0"	Designed by: Brian T. Gardner, PE		 Allied Engineering A Salas O'Brien Company 160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266	 THE GOLD STAR MEMORIAL HIGHWAY	AUBURN VEHICLE STORAGE GARAGE ELECTRICAL LEGEND																												
<table border="1"> <thead> <tr> <th>No.</th><th>Revision</th><th>By</th><th>Date</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Revision	By	Date													<table border="1"> <thead> <tr> <th>By</th><th>Date</th><th>By</th><th>Date</th></tr> </thead> <tbody> <tr> <td>Designed: BTG</td><td>04/25/2025</td><td>Checked: BTG</td><td>04/25/2025</td></tr> <tr> <td>Drawn: PMC</td><td>04/25/2025</td><td></td><td></td></tr> </tbody> </table>	By	Date	By	Date	Designed: BTG	04/25/2025	Checked: BTG	04/25/2025	Drawn: PMC	04/25/2025			SO PROJ.NO.: 2561-00178 CAD FILE:	MTA PROJECT MANAGER: Brian A. Taddeo, P.E.	CONTRACT: 2025.11	SHEET NUMBER: E000 30 OF 36
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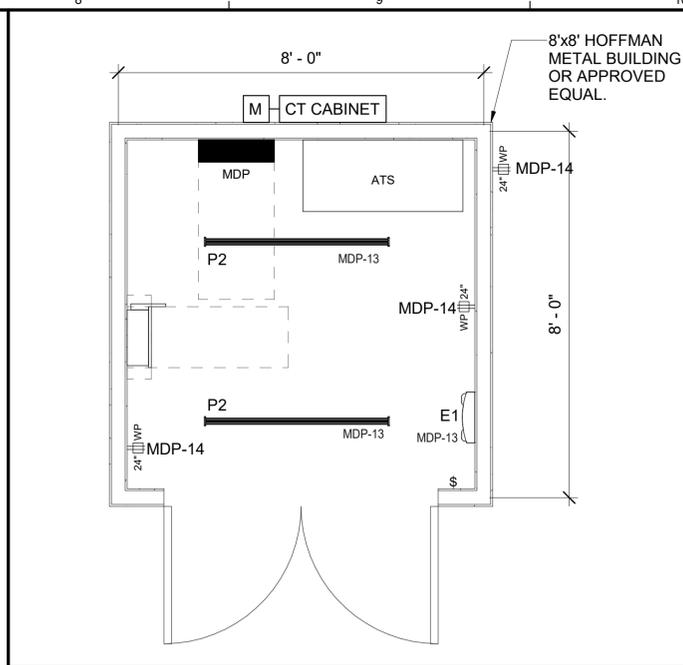
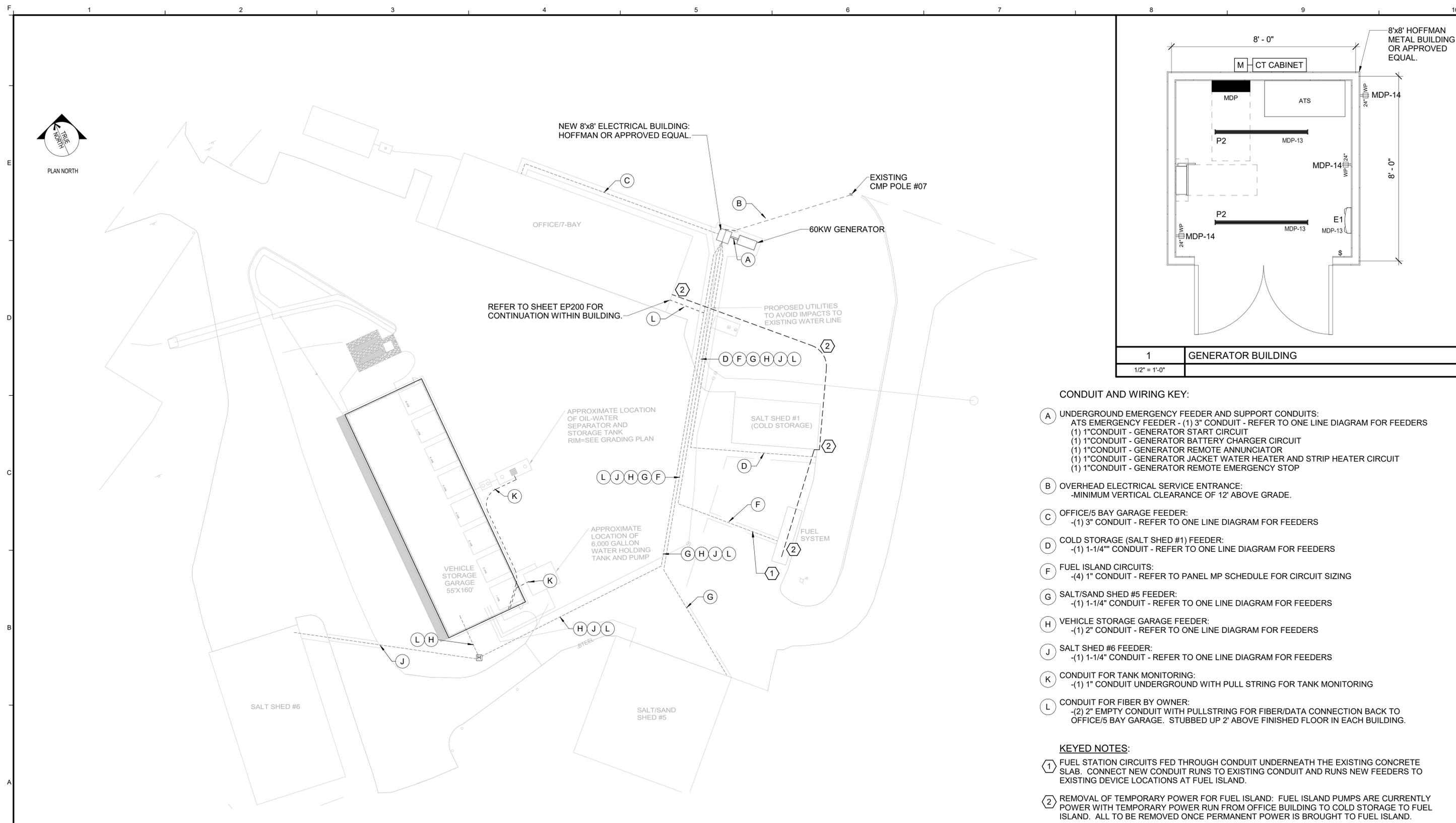
PROJECT NOTES	INSTALLATION COORDINATION NOTES	WIRING NOTES	SYSTEM POWER WIRING NOTES
<p>1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED UNLESS OTHERWISE SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS, AND COORDINATION WITH ALL TRADES SCOPE OF WORK AS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING BOTH THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK REQUIREMENTS INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK, UNLESS SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS.</p> <p>2. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.</p> <p>3. WORK AT A MINIMUM SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODE AND AUTHORITIES. DO NOT INSTALL WORK THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. IF NECESSARY, REQUEST CLARIFICATION FROM ARCHITECT AND ENGINEER BEFORE PROCEEDING.</p> <p>4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER. RECTILINEAR TO BUILDING STRUCTURE.</p> <p>5. ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS OR DETAILS, BUT NOT ON THE PLAN OR VICE VERSA SHALL BE INCLUDED AS IF SHOWN ON BOTH.</p> <p>6. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR MENTIONED.</p> <p>7. VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE. SUBMIT ANY QUESTIONS REQUIRED TO CLARIFY SCOPE PRIOR TO BID. INCLUDE ALL REQUIRED WORK IN BID PRICE.</p> <p>8. INCLUDE IN BID WHATEVER IS REQUIRED TO MEET SCHEDULE INCLUDING OVERTIME, EXPRESS SHIPPING, EXPEDITING EQUIPMENT, ETC. PLAN FOR PROJECT AND SUBMIT SHOP DRAWING AND ORDER EQUIPMENT IN A TIMELY MANNER; EQUIPMENT SHALL BE BASED ON THE SPECIFIED EQUIPMENT.</p> <p>9. ANY EQUIPMENT TO BE SUBSTITUTED SHALL BE IDENTIFIED AT THE TIME OF BID. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBSTITUTIONS.</p> <p>10. ALL ELECTRICAL DEVICES, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN APPLIED.</p> <p>11. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS, INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, COMMISSIONING, APPROVALS AND CERTIFICATIONS.</p> <p>12. PROVIDE TRAINING TO OWNER ON ALL EQUIPMENT AND SYSTEMS INSTALLED.</p> <p>13. TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED AS REQUIRED BY OSHA, CODES AND LOCAL AUTHORITIES. REMOVE ALL TEMPORARY FACILITIES PROVIDED AT PROJECT COMPLETION.</p>	<p>1. PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES, COORDINATE WITH THE GENERAL CONTRACTOR, EQUIPMENT SHOP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND ACCESSORIES FOR A COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E. POWER, CONTROL, INTERLOCK, ETC.</p> <p>2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.</p> <p>3. ELECTRICAL EQUIPMENT, RACEWAYS AND OUTLETS MOUNTED TO AND OR INSTALLED IN OWNER FURNISHED FURNITURE SHALL BE COORDINATED WITH THE EQUIPMENT AND FURNITURE INSTALLERS AND THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. EXCEPT WHERE INDICATED OR REQUIRED OTHERWISE.</p> <p>4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.</p> <p>5. IF EXACT LOCATION, MOUNTING OR RACEWAY ROUTING ARE NOT INDICATED OR ARE NOT CLEAR OR CONFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND REQUEST CLARIFICATION PRIOR TO ROUGH-IN OR INSTALLATION. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OR EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.</p> <p>6. WHERE LOADS ARE ADDED TO EXISTING BRANCH CIRCUITS, VERIFY THAT THE EXISTING CIRCUITS HAVE ADEQUATE CAPACITY TO SUPPORT THE ADDITIONAL LOAD WITHOUT EXCEEDING SPECIFIED MAXIMUM LOAD.</p> <p>7. UNLESS OTHERWISE DIRECTED, PROVIDE ALL NEW POWER DISTRIBUTION EQUIPMENT WITH AIC RATINGS THAT MATCH OR EXCEED THE AIC RATING OF THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICE SERVING THE PANEL WHEN SERVED DIRECTLY BY ITS SOURCE (E.G. NO TRANSFORMER) OR PROVIDE AIC RATING THAT EXCEEDS BY 10% THE MAXIMUM LET THROUGH FAULT CURRENT (UNDER INFINITE PRIMARY BUSS) OF THE NEXT ACTIVE UPSTREAM TRANSFORMER (EXISTING OR NEW) SERVING THE RESPECTIVE PANEL.</p> <p>8. ALL NEW PANELS SHALL BE FULLY RATED FOR THE DESIGNATED AIC VALUE; PANELS UTILIZING SERIES RATINGS WILL NOT BE ACCEPTABLE. NEW CIRCUIT BREAKERS PROVIDED IN EXISTING PANELS SHALL BE PROVIDED WITH AIC RATINGS THAT MATCH OR EXCEED THE HIGHEST RATED OVER-CURRENT PROTECTIVE DEVICE WITHIN THE RESPECTIVE EXISTING PANEL.</p> <p>9. SUBMIT SHORT CIRCUIT STUDY WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. IN THE STUDY DEMONSTRATE THAT THE AIC RATING SELECTIONS ARE PROPERLY INTEGRATED AND COORDINATED WITH THE EXISTING AND NEW POWER DISTRIBUTION EQUIPMENT. CONFIRM THAT THE AIC RATING SELECTIONS HAVE INCORPORATED THE AVAILABLE FAULT DUTY VALUES OBTAINED FROM THE UTILITY COMPANY FOR THE PROJECTS ELECTRICAL SERVICE POINT OF COMMON COUPLING.</p> <p>10. SUBMIT OVER-CURRENT PROTECTIVE DEVICE COORDINATION STUDY, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH THE POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. INCLUDE THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICES, IN THE STUDY ANALYSIS, WHEN PROJECT IS WITHIN AN EXISTING FACILITY.</p> <p>11. SUBMIT ARC FLASH REPORT, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL.</p>	<p>1. UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS; ALL CONDUCTORS, POWER DISTRIBUTION EQUIPMENT BUSSING AND TRANSFORMER WINDINGS SHALL BE FABRICATED OF 98% CONDUCTIVE COPPER MATERIAL.</p> <p>2. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.</p> <p>3. BRANCH CIRCUIT WIRING NOT SHOWN. CIRCUITING SHALL IN ACCORDANCE WITH APPLICABLE CODES AND STANDARD PRACTICE. PROVIDE A 20A, 1P CIRCUIT BREAKER FOR EACH LIGHTING AND RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED OR NOTED. CONNECT NO MORE THAN SIX DUPLEX CONVENIENCE RECEPTACLES PER BRANCH CIRCUIT. CONNECTED LOAD ON LIGHTING CIRCUITS SHALL NOT EXCEED 12 AMPS.</p> <p>4. ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE. ALL EXPOSED WIRING INCLUDING THAT WHICH IS INSTALLED ABOVE BUT IS VISIBLE FROM BELOW, PARTIALLY OR FULLY OPEN CEILING, SHALL BE INSTALLED IN CONDUIT OR RACEWAYS. REFER TO SPECIFICATIONS FOR ACCEPTABLE WIRING METHODS.</p> <p>5. WIRING AND CONDUIT SHALL BE REQUIRED FOR ALL SWITCHES, AND OUTLETS INDICATED WITH CIRCUIT NUMBERS. PROVIDE 3/4" CONDUIT - 3#12 UNLESS OTHERWISE INDICATED (1 PHASE, 1 NEUTRAL AND 1 GROUND). WIRE AND CONDUIT SIZES ON HOME RUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT. REFER TO VOLTAGE DROP CHART ON SCHEDULE SHEET. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.</p> <p>6. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (PHASE AND NEUTRALS) AND GROUNDING CONDUCTOR. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE-PHASE RECEPTACLE OR LIGHTING CIRCUIT. UNLESS OTHERWISE INDICATED OR IF AN OVERSIZED NEUTRAL IS SPECIFIED, CIRCUITS WITH SHARED NEUTRALS SHALL BE PROVIDED WITH CIRCUIT BREAKERS THAT HAVE A COMMON TRIP (E.G. FURNITURE WHIPS)</p> <p>7. MARK ALL CONDUITS AND JUNCTION BOXES WITH PERMANENT MARKER INDICATING PANEL AND CIRCUIT NUMBER OF CONDUCTORS CONTAINED WITHIN. LABEL WHERE CONDUITS ENTER PANELS, WIRE WAYS, PULL BOXES, ETC. LABEL EMPTY CONDUITS WITH SYSTEM (VOICE, DATA, SECURITY, ETC.) AND SOURCE OF CONDUIT.</p> <p>8. COORDINATE WITH OWNER TO DETERMINE WHICH RECEPTACLES AND ITEMS OF EQUIPMENT REQUIRE STANDBY GENERATOR POWER.</p> <p>9. ELECTRICAL WORK NOT SERVING STAIRWELLS SHALL NOT PASS THROUGH A STAIR ENCLOSURE UNLESS AN APPROVED RATED SOFFIT IS PROVIDED TO MAINTAIN FIRE AND SMOKE RATING.</p> <p>10. ALL RACEWAYS CROSSING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.</p> <p>11. PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE. O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.</p> <p>12. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (FLOOR TO FLOOR) WALLS.</p>	<p>1. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED COMPUTER POWER OUTLETS FEEDING THE VIDEO SOURCE ARE TO BE CONNECTED TO THE SAME PHASE TO ELIMINATE THE POTENTIAL FOR VIDEO INTERFERENCE BETWEEN VIDEO SOURCE AND EQUIPMENT. COORDINATE ALL POWER WIRING FOR SYSTEM EQUIPMENT WITH THE SYSTEM INSTALLER PRIOR TO INSTALLATION</p> <p>RECEPTACLE COLOR CODE NOTES</p> <p>UNLESS OTHERWISE INDICATED PROVIDE 20A HEAVY DUTY GRADE RECEPTACLES WITH COLOR CODE AS FOLLOWS:</p> <ol style="list-style-type: none"> ON GENERATOR POWER - RED ON UPS POWER - BLUE ISOLATED GROUND - ORANGE ON NORMAL POWER - IVORY OR AS SELECTED BY ARCHITECT <p>MOUNTING NOTES</p> <ol style="list-style-type: none"> DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS. INSTALL ALL ELECTRICAL DEVICES (FIRE ALARM, SWITCHES, RECEPTACLES, WORK BOXES, JUNCTION BOXES, EXIT SIGNS, LUMINAIRES, ETC.) IN THE LOCATIONS IDENTIFIED OR DIMENSIONS ON THE ARCHITECTURAL PLANS, DETAILS, OR ELEVATIONS. IF THE DEVICE LOCATION IS NOT SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS, FOLLOW THE GUIDELINES LISTED BELOW: INSTALL NEARBY DEVICES ON ONE COMMON VERTICAL CENTERLINE INSTALL ADJACENT TO DEVICES LINED UP WITH A COMMON BOTTOM LINE. INSTALL DEVICES AT INDICATED HEIGHT AS APPLICABLE UNLESS OTHERWISE NOTED. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT AS INDICATED BY NOTE 7. ON MASONRY WALLS LINE UP THE BOTTOM OF THE DEVICE WITH A MASONRY JOINT AS CLOSE TO THE INDICATED HEIGHT AS PRACTICAL. INSTALL DEVICES IN SAME AREA AT THE SAME HEIGHT. MOUNT PANELS SIX FEET TO THE TOP OF THE PANEL OR ANNUNCIATOR/ FA GRAPHIC. MOUNT AT 8 FOOT TO BOTTOM FOR SIGNAGE, EMERGENCY LIGHTING, CLOCKS, SECURITY SENSORS, WALL MOUNTED OCCUPANCY SENSORS MODIFIED AS FOLLOWS: 4' FROM TOP OF DEVICE TO CEILING AND 4' ABOVE DOOR FRAMES. LOCATE CONTROL DEVICE AT LEAST 18" FROM AN INSIDE CORNER. SUPPORT WORK FROM THE BUILDING STRUCTURE. IN FINISHED AREAS ELECTRICAL WORK SHALL BE INSTALLED CONCEALED, RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24" SPACING IN FIRE RATED WALLS. PROVIDE ELECTRICAL OUTLET PLATE GASKETS SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.

C1 GENERAL NOTES

BRANCH CIRCUITS SCHEDULE	VOLTAGE DROP CHART	SPECIAL RECEPTACLE SCHEDULE	THREE PHASE AND SINGLE PHASE CIRCUIT SCHEDULE NOTES																																																																																																																																																																																																																																			
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SIZES AS INDICATED IN SCHEDULE. WIRING BASED ON MAXIMUM FEEDER LENGTH OF 150 FEET FOR 120 VOLT CIRCUITS AND 300 FEET FOR 277 VOLT CIRCUITS. UPGRADE WIRE AND CONDUIT SIZE AS REQUIRED TO ADDRESS VOLTAGE DROP. 	CIRCUIT BREAKER	CONDUCTOR	120 OR 277 VOLT, 1 PH., 2W CIRCUITS		15A-1P, 20A-1P	2#12 & 1#12 GND - 3/4" C.	30A-1P	2#10 & 1#10 GND - 3/4" C.	40A-1P	2#8 & 1#10 GND - 3/4" C.	50A-1P	2#6 & 1#10 GND - 3/4" C.	60A-1P	2#6 & 1#10 GND - 3/4" C.	208 OR 480 VOLT, 1PH., 2W CIRCUITS		15A-2P, 20A-2P	2#12 & 1#12 GND - 3/4" C.	30A-2P	2#10 & 1#10 GND - 3/4" C.	40A-2P	2#8 & 1#10 GND - 3/4" C.	50A-2P	2#6 & 1#10 GND - 3/4" C.	60A-2P	2#6 & 1#10 GND - 3/4" C.	208 OR 480 VOLT, 3PH., 3W CIRCUITS		15A-3P, 20A-3P	3#12 & 1#12 GND - 3/4" C.	30A-3P	3#10 & 1#10 GND - 3/4" C.	40A-3P	3#8 & 1#10 GND - 3/4" C.	50A-3P	3#6 & 1#10 GND - 3/4" C.	60A-3P	3#6 & 1#10 GND - 3/4" C.	<table border="1"> <thead> <tr> <th rowspan="2">MAXIMUM LOAD (VA)</th> <th colspan="3">MAXIMUM LENGTH PER CONDUCTOR SIZE</th> </tr> <tr> <th>#12</th> <th>#10</th> <th>#8</th> </tr> </thead> <tbody> <tr> <td colspan="4">120 VOLT CIRCUITS</td> </tr> <tr> <td>800</td> <td>155</td> <td>245</td> <td>390</td> </tr> <tr> <td>1000</td> <td>125</td> <td>195</td> <td>310</td> </tr> <tr> <td>1200</td> <td>105</td> <td>165</td> <td>260</td> </tr> <tr> <td>1400</td> <td>90</td> <td>140</td> <td>220</td> </tr> <tr> <td>1600</td> <td>80</td> <td>125</td> <td>195</td> </tr> <tr> <td>1800</td> <td>70</td> <td>110</td> <td>175</td> </tr> <tr> <td colspan="4">277 VOLT CIRCUITS</td> </tr> <tr> <td>2000</td> <td>330</td> <td>525</td> <td>830</td> </tr> <tr> <td>2500</td> <td>265</td> <td>420</td> <td>665</td> </tr> <tr> <td>3000</td> <td>220</td> <td>350</td> <td>555</td> </tr> <tr> <td>3500</td> <td>190</td> <td>300</td> <td>475</td> </tr> <tr> <td>4000</td> <td>165</td> <td>260</td> <td>415</td> </tr> </tbody> </table>	MAXIMUM LOAD (VA)	MAXIMUM LENGTH PER CONDUCTOR SIZE			#12	#10	#8	120 VOLT CIRCUITS				800	155	245	390	1000	125	195	310	1200	105	165	260	1400	90	140	220	1600	80	125	195	1800	70	110	175	277 VOLT CIRCUITS				2000	330	525	830	2500	265	420	665	3000	220	350	555	3500	190	300	475	4000	165	260	415	<table border="1"> <thead> <tr> <th>TAG</th> <th>NEMA</th> <th>DESCRIPTION (SINGLE DEVICE)</th> <th>OCPD</th> <th>BRANCH CIRCUIT</th> </tr> </thead> <tbody> <tr><td>A</td><td>5-15R</td><td>15A-125V, 2P, 3W</td><td>15A-1P</td><td>2#12 & 1#12GND - 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PROVIDE LARGER CONDUCTORS AND RACEWAY WHERE INDICATED. PROVIDE TYPE AND MINIMUM SIZE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATION OR ON THE DRAWINGS. PROVIDE NEUTRAL IN CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION. MINIMUM SIZE CONDUIT FOR SCHEDULE 80 OR EMT IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE. DO NOT... PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT. PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTOR SAME SIZE AS THE EQUIPMENT GROUND. IN CIRCUITS TO ISOLATED GROUND PANELS OR DEVICES, GREEN WITH YELLOW STRIPE. FOR PANELS WITH 200% NEUTRAL PROVIDE 200% NEUTRAL USING TWO PHASE SIZED CONDUCTORS IF SIZE 1/0 OR LARGER, OTHERWISE PROVIDE (1) 3/0... PROVIDE SEPARATE INDIVIDUAL NEUTRAL FOR ALL CIRCUITS EXCEPT LIGHTING CIRCUITS. PROVIDE A DEDICATED NEUTRAL FOR GFCI AND AFCI... CIRCUIT SIZING BASED ON 600 VOLT 90 DEGREE (C) RATED INSULATION. INTERIOR TYPE THHN/THWN OR XHHW-2 (LARGER THAN SIZE #6), FOR EXTERIOR OR BELOW GRADE UTILIZE RHW-2/USE-2 IN CONDUIT ONE SIZE LARGER. SIZING BASED ON 60 DEGREE (C) FOR AMPACITIES 100A OR LESS A... FOR SERVICE ENTRANCE CONDUCTORS IT IS NOT REQUIRED TO INSTALL THE GROUNDING CONDUCTOR. THE NEUTRAL CONDUCTOR IS FULL SIZED AND IS BONDED TO THE GROUNDING ELECTRODE CONDUCTOR AT THE TRANSFORMER AND THE SERVICE DISCONNECT. FOR BATTERY CABLES, INSTALL AND GROUP IN PAIRS (ONE POSITIVE AND ONE NEGATIVE CONDUCTOR). MARK POSITIVE CONDUCTOR WITH (5) OVERLAPPING WRAPS OF RED ELECTRICAL TAPE ON EACH END.
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N	15-30R	30A-250V, 3PH, 3P, 4W	30A-3P	3#10 & 1#10GND - 3/4" C																																																																																																																																																																																																																																		
P	15-50R	50A-250V, 3PH, 3P, 4W	50A-3P	3#6 & 1#10GND - 1" C																																																																																																																																																																																																																																		
Q	15-60R	60A-250V, 3PH, 3P, 4W	60A-3P	3#6 & 1#10GND - 1" C																																																																																																																																																																																																																																		
R	L5-20R	20A-125V, 2P, 3W, TWIST LOCK	20A-1P	2#12 & 1#12GND - 3/4" C																																																																																																																																																																																																																																		
S	L5-30R	30A-125V, 2P, 3W, TWIST LOCK	30A-1P	2#10 & 1#10GND - 3/4" C																																																																																																																																																																																																																																		
T	L6-15R	15A-250V, 2P, 3W, TWIST LOCK	15A-2P	2#12 & 1#12GND - 3/4" C																																																																																																																																																																																																																																		
U	L6-20R	20A-250V, 2P, 3W, TWIST LOCK	20A-2P	2#12 & 1#12GND - 3/4" C																																																																																																																																																																																																																																		
V	L6-30R	30A-250V, 2P, 3W, TWIST LOCK	30A-2P	2#10 & 1#10GND - 3/4" C																																																																																																																																																																																																																																		
W	L14-20R	20A-125/250V, 3P, 4W, TWIST LOCK	20A-2P	3#12 & 1#12GND - 3/4" C																																																																																																																																																																																																																																		
X	L14-30R	30A-125/250V, 3P, 4W, TWIST LOCK	30A-2P	3#10 & 1#10GND - 3/4" C																																																																																																																																																																																																																																		
Y	L16-20R	20A-480V, 3P, 4W, TWIST LOCK	20A-3P	3#12 & 1#12GND - 3/4" C																																																																																																																																																																																																																																		
Z	L11-20R	20A-250V, 3P, 4W, TWIST LOCK	20A-3P	3#12 & 1#10GND - 3/4" C																																																																																																																																																																																																																																		

A1 ELECTRICAL SCHEDULES

Scale: 12" = 1'-0"	Designed by:  Brian T. Gardner, PE		 Allied Engineering A Salas O'Brien Company 160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266		THE GOLD STAR MEMORIAL HIGHWAY	AUBURN VEHICLE STORAGE GARAGE ELECTRICAL GENERAL NOTES AND SCHEDULES																												
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Designed: BTG	04/25/2025	Checked: BTG	04/25/2025																															
Drawn: PMC	04/25/2025																																	



1 GENERATOR BUILDING
1/2" = 1'-0"

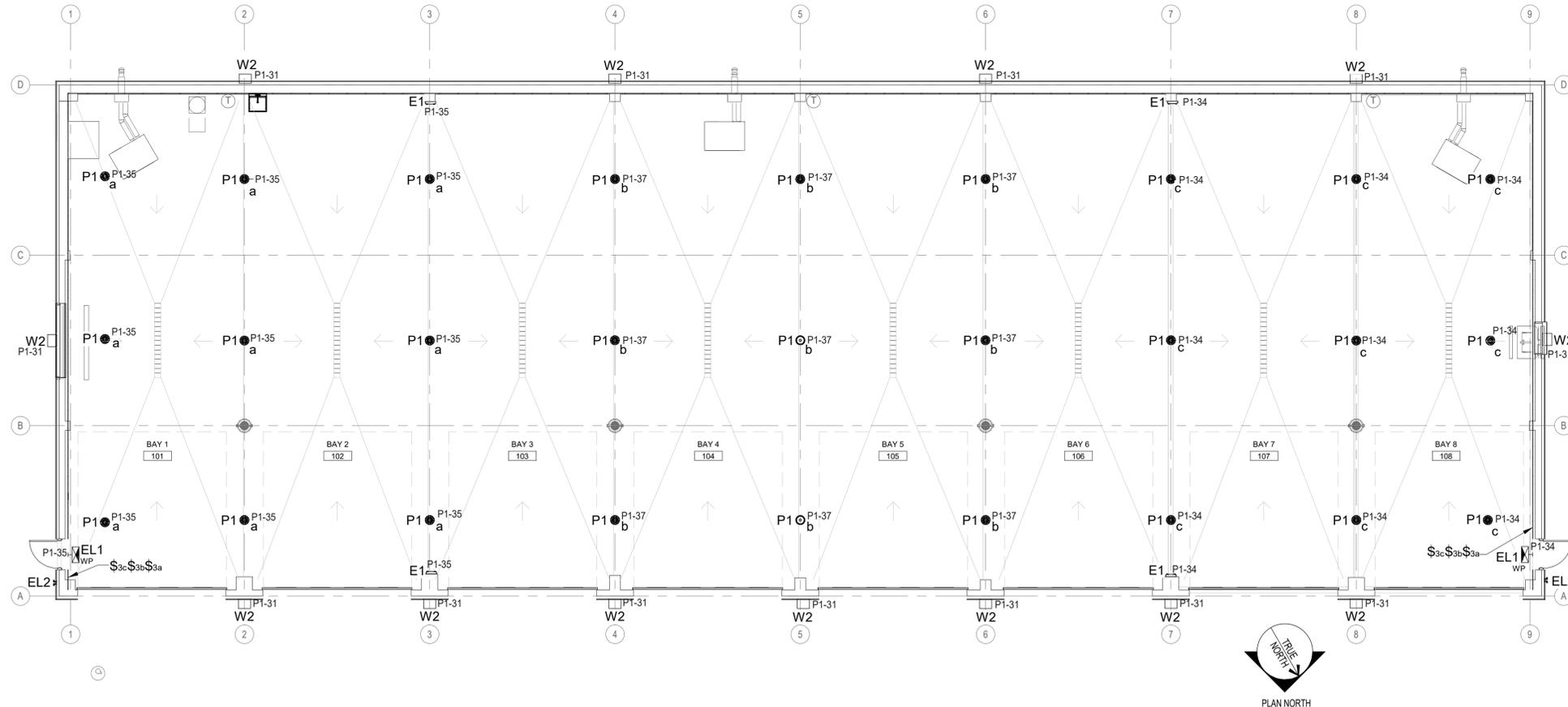
- CONDUIT AND WIRING KEY:**
- (A) UNDERGROUND EMERGENCY FEEDER AND SUPPORT CONDUITS:
 ATS EMERGENCY FEEDER - (1) 3" CONDUIT - REFER TO ONE LINE DIAGRAM FOR FEEDERS
 (1) 1" CONDUIT - GENERATOR START CIRCUIT
 (1) 1" CONDUIT - GENERATOR BATTERY CHARGER CIRCUIT
 (1) 1" CONDUIT - GENERATOR REMOTE ANNUNCIATOR
 (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.
 - (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	Designed by: Brian T. Gardner, PE		Allied Engineering A Salas O'Brien Company 160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266	 THE GOLD STAR MEMORIAL HIGHWAY	AUBURN VEHICLE STORAGE GARAGE ELECTRICAL SITE PLAN																														
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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-L40W	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

Designed by:					
Brian T. Gardner, PE					
Designed:	By	Date	Checked:	By	Date
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	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

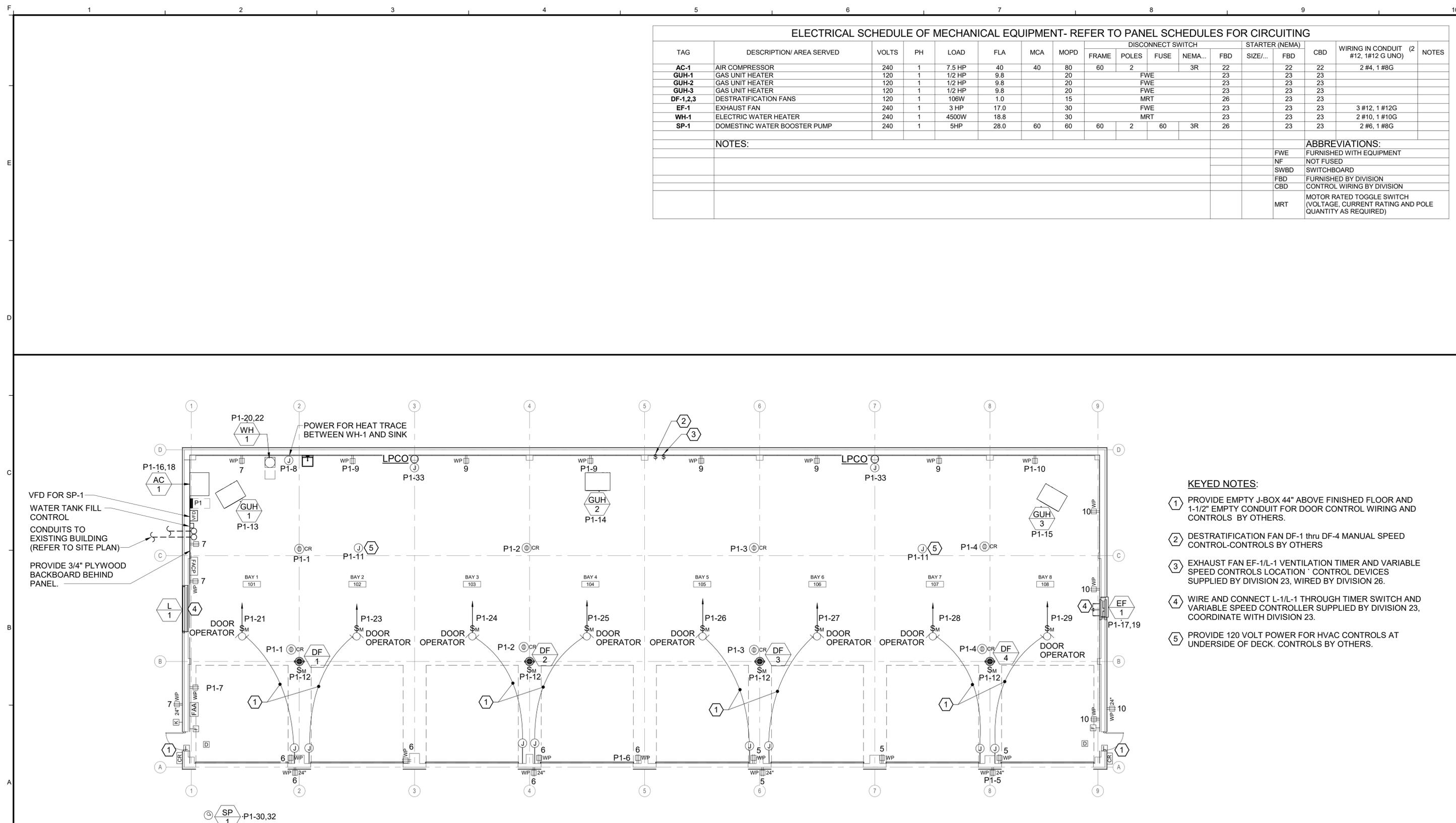
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ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT- REFER TO PANEL SCHEDULES FOR CIRCUITING

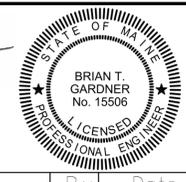
TAG	DESCRIPTION/ AREA SERVED	VOLTS	PH	LOAD	FLA	MCA	MOPD	DISCONNECT SWITCH				STARTER (NEMA)		CBD	WIRING IN CONDUIT #12, 1#12 G UNO	NOTES
								FRAME	POLES	FUSE	NEMA...	FBD	SIZE/...			
AC-1	AIR COMPRESSOR	240	1	7.5 HP	40	40	80	60	2		3R	22	22	22	2 #4, 1 #8G	
GUH-1	GAS UNIT HEATER	120	1	1/2 HP	9.8		20			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	DOMESTING 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 L-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.

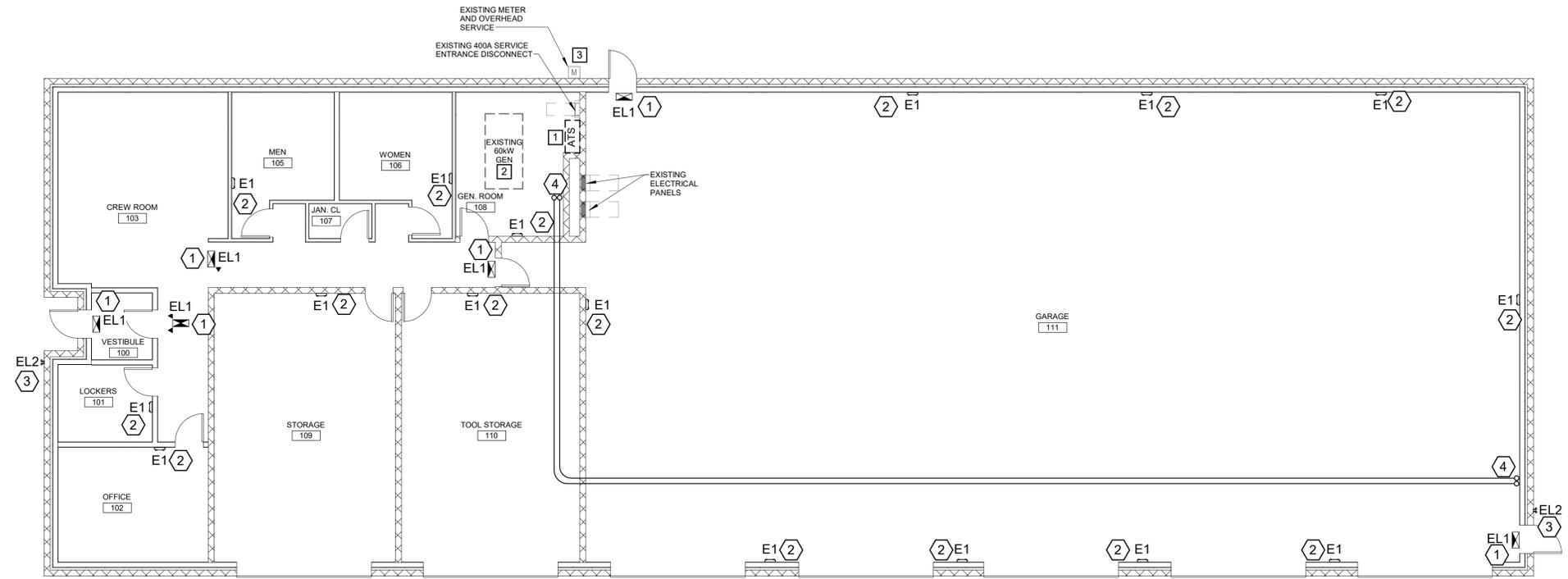
A1	POWER AND SYSTEMS PLAN																														
Scale: 1/8" = 1'-0"		Designed by: <i>Brian T. Gardner</i>				 A Salas O'Brien Company 160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266																									
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SO PROJ.NO.: 2561-00178 CAD FILE:		MTA PROJECT MANAGER: Brian A. Taddeo, P.E.		CONTRACT: 2025.11																											
						SHEET NUMBER: EP100 34 OF 36																									

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 EXISTING 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

Designed by:
Brian T. Gardner
Brian T. Gardner, PE

	By	Date		By	Date
Designed:	BTG	04/25/2025	Checked:	BTG	04/25/2025
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Allied Engineering
A Salas O'Brien Company

160 Veranda Street
Portland, Maine 04103
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**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

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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 ENDING 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 MAXIMUM 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
 Supply From: MOUNTING: Surface
 Volts: 120/240 Single
 Phases: 1
 Wires: 3
 A.I.C. Rating: REFER TO STUDY
 Mains Type: MCB
 Bus Rating: 250 A
 MCB Rating: 200 A

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	40	AC-1 - AIR COMPRESSOR	16
17	HVAC - EF-1	30	2	2.0	4.8	2	30	HVAC - WH-1	20
21	DOOR OPERATOR BAY 1	20	1	1.0	2.3	1	20	DOOR OPERATOR BAY 3	24
23	DOOR OPERATOR BAY 2	20	1	1.0	1.0	1	20	DOOR OPERATOR BAY 5	26
25	DOOR OPERATOR BAY 4	20	1	1.0	1.0	1	20	DOOR OPERATOR BAY 7	28
27	DOOR OPERATOR BAY 6	20	1	1.0	3.4	2	60	HVAC - SP-1	30
29	DOOR OPERATOR BAY 8	20	1	0.9	0.9	1	20	Lighting Interior	34
31	EXTERIOR BUILDING...	20	1	0.9	0.0	1	20	SPARE	36
33	LP GAS CO DETECTOR	20	1	0.9	0.0	1	20	SPARE	38
35	Lighting Interior	20	1	0.0	0.0	1	20	SPARE	40
37	Lighting Interior	20	1	0.0	0.0	1	20	SPARE	42
39	SPARE	20	1	0.0	0.0	1	20	SPARE	
41	SPARE	20	1	0.0	0.0	1	20	SPARE	
		Total Load:		25.6 kW	22.5 kW				
		Total Amp:		214 A	187 A				

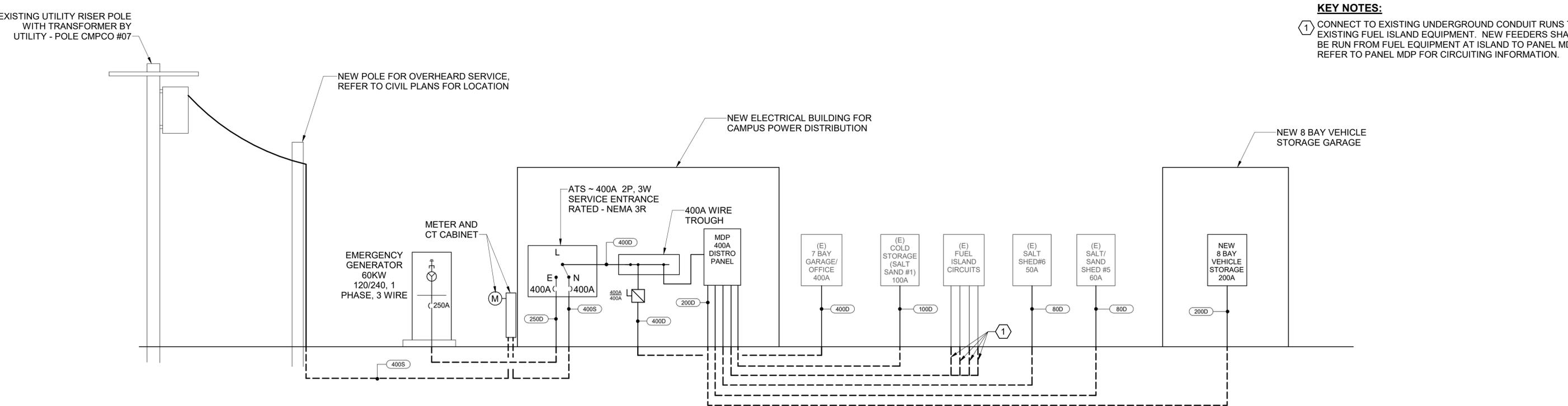
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	15737 VA	100.00%	15737 VA	
Motor	9600 VA	125.00%	12000 VA	Total Conn. Load: 48.1 kW
Other	20 VA	100.00%	20 VA	Total Est. Demand: 51.4 kW
Lighting	3507 VA	125.00%	4383 VA	Total Conn.: 200 A
Power	9430 VA	100.00%	9430 VA	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: MOUNTING: Surface
 Supply From: MOUNTING: Surface
 Volts: 120/240 Single
 Phases: 1
 Wires: 3
 A.I.C. Rating: REFER TO STUDY
 Mains Type: MCB
 Bus Rating: 400 A
 MCB Rating: 400 A

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	2			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	2			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	2	20	Receptacles - SHED	12
13	LIGHTING - SHED	20	1	0.1	0.5	1	20	GEN. START CIRCUIT	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	0.0	1	20	SPARE	18
19	SPARE	20	1	0.0	0.0	1	20	SPARE	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:		0.7 kW	0.0 kW				
		Total Amp:		6 A	0 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	142 VA	100.00%	142 VA	
Receptacle	540 VA	100.00%	540 VA	Total Conn. Load: 0.7 kW
				Total Est. Demand: 0.7 kW
				Total Conn.: 3 A
				Total Est. Demand: 3 A



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"	Designed by: <i>Brian T. Gardner</i> Brian T. Gardner, PE																						
<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision	By	Date					<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed: BTG</td> <td>04/25/2025</td> <td>Checked: BTG</td> <td>04/25/2025</td> </tr> <tr> <td>Drawn: PMC</td> <td>04/25/2025</td> <td></td> <td></td> </tr> </tbody> </table>		By	Date	By	Date	Designed: BTG	04/25/2025	Checked: BTG	04/25/2025	Drawn: PMC	04/25/2025		
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<p>Allied Engineering A Salas O'Brien Company 160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266</p>		<p>THE GOLD STAR MEMORIAL HIGHWAY</p>																					
<p>SO PROJ.NO.: 2561-00178 CAD FILE:</p>		<p>MTA PROJECT MANAGER: Brian A. Taddeo, P.E.</p>																					
		<p>AUBURN VEHICLE STORAGE GARAGE POWER RISER DIAGRAM</p>																					
		<p>SHEET NUMBER: EP500</p>																					
		<p>CONTRACT: 2025.11</p>																					
		<p>36 OF 36</p>																					