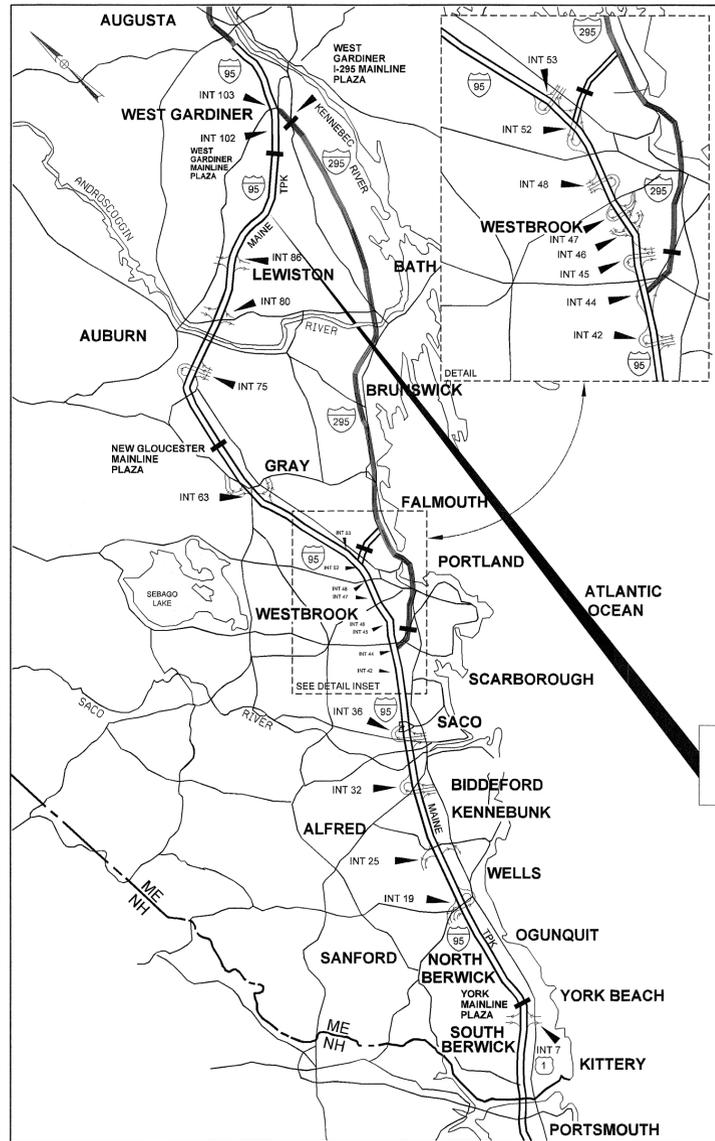


Date: 9/12/2023



LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 MICHAEL J. CIANCHETTE, VICE CHAIR
 JANE L. LINCOLN, MEMBER
 THOMAS J. ZUKE, MEMBER
 ANDREW J. MCLEAN, MEMBER
 BETTYANN SHEATS, MEMBER
 BRUCE A. VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2023.09
 LITCHFIELD MAINTENANCE
 RESTROOM RENOVATION
 MILE 92.7

CONTRACT 2023.09 LITCHFIELD MAINTENANCE RESTROOM RENOVATION MILE MARKER 92.7

INDEX OF SHEETS

PAGE NO.	SHEET NO.	DESCRIPTION
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2	A-0	ARCHITECTURAL COVER SHEET
3	A-1	DEMOLITION PLANS
4	A-2	PROPOSED PLANS AND ELEVATIONS
5	A-3	ELEVATIONS, REFLECTED CEILING PLAN, SCHEDULES
6	A-4	ARCHITECTURAL DETAILS
7	A-5	ACCESSIBILITY DETAILS & NOTES
8	M-1	MECHANICAL PART PLANS
9	M-2	MECHANICAL SCHEDULES
10	P-1	PLUMBING PART PLANS
11	E-001	ELECTRICAL GENERAL NOTES
12	E-101	ELECTRICAL PLANS & SCHEDULES

CONTRACT 2023.09

HNTB

APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld 9/12/23
 PETER S. MERFELD, P.E., CHIEF OPERATIONS OFFICER DATE

Stephen R. Tartie 9/13/23
 STEPHEN R. TARTIE, P.E., CHIEF ENGINEER & DIRECTOR OF ENGINEERING DATE

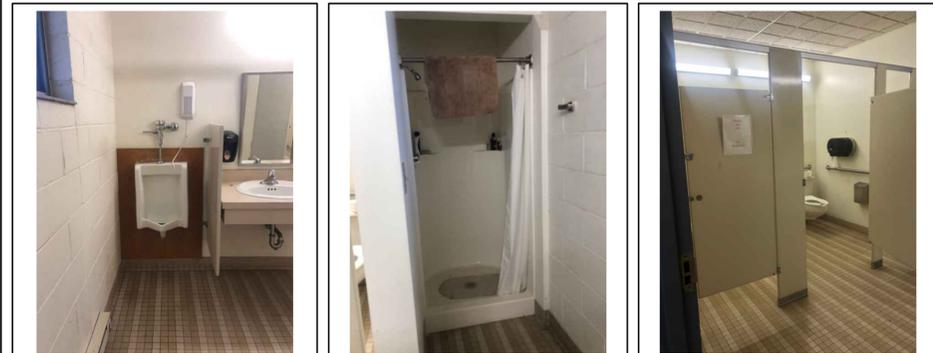
John Bannell 9/12/23
 JOHN BANNELL, P.E., DIRECTOR OF HIGHWAY MAINTENANCE DATE

Timothy R. Cote 9/12/2023
 TIMOTHY R. COTE, P.E. DATE
 VICE PRESIDENT
 PROJECT DIRECTOR

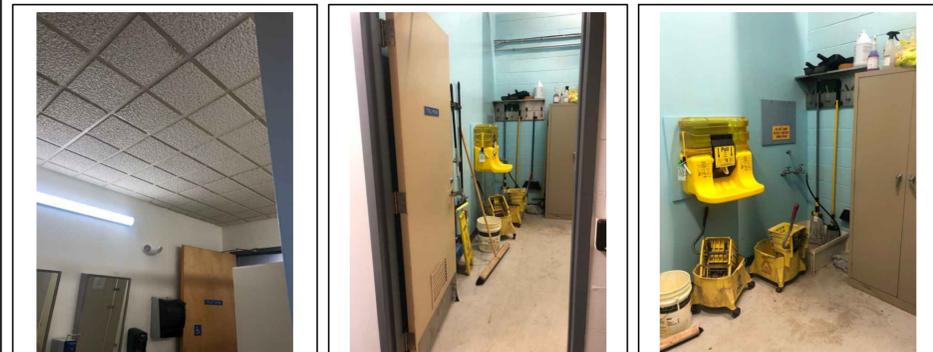
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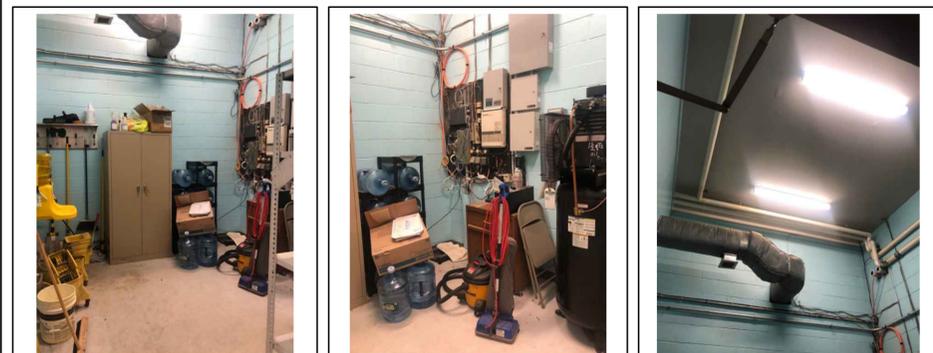
① RESTROOM 1 ② RESTROOM 2 ③ RESTROOM 3



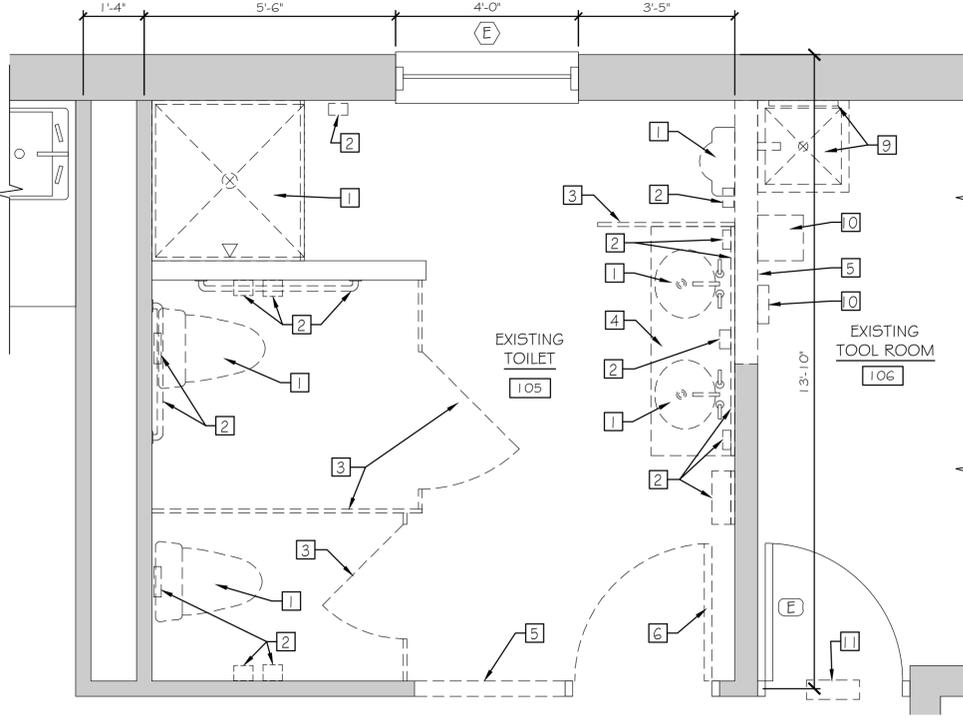
④ RESTROOM 4 ⑤ RESTROOM 5 ⑥ RESTROOM 6



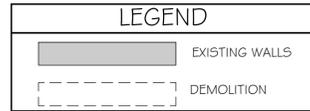
⑦ RESTROOM 7 ⑧ TOOL ROOM 1 ⑨ TOOL ROOM 2



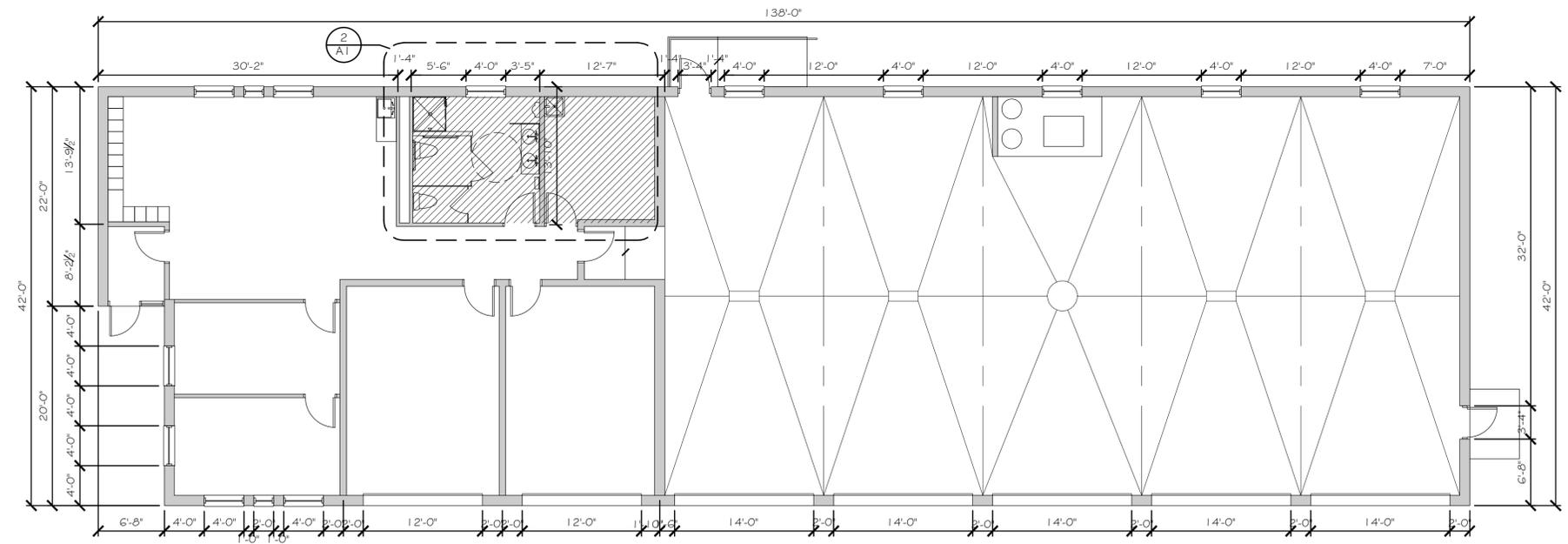
⑩ TOOL ROOM 3 ⑪ TOOL ROOM 4 ⑫ TOOL ROOM 5



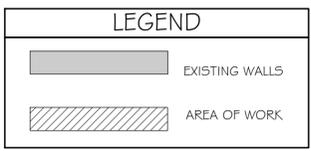
② EXISTING TOILET 105 DEMOLITION PLAN
SCALE: 1/2" = 1'-0"



- DEMOLITION NOTES LEGEND**
- ① REMOVE EXISTING PLUMBING FIXTURE IN ITS ENTIRETY. SEE PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
 - ② REMOVE ALL EXISTING TOILET ACCESSORIES AND MIRRORS IN THEIR ENTIRETY.
 - ③ REMOVE ALL EXISTING COMPARTMENT PARTITIONS AND SCREENS IN THEIR ENTIRETY.
 - ④ REMOVE EXISTING COUNTERTOP, BACKSPASH, AND SUPPORTS IN THEIR ENTIRETY.
 - ⑤ REMOVE EXISTING PARTITION. SEE PROPOSED FLOOR PLAN FOR ADDITIONAL NOTES.
 - ⑥ REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY.
 - ⑦ REMOVE EXISTING FLOORING AND WALL BASE IN ITS ENTIRETY. PREP EXISTING CONCRETE SLAB FOR NEW FINISH. SEE FINISH SCHEDULE.
 - ⑧ REMOVE EXISTING SUSPENDED CEILING IN ITS ENTIRETY. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
 - ⑨ REMOVE AND RELOCATE EXISTING MOP RECEPTOR AND MOP RACK. SEE PROPOSED FLOOR PLAN AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
 - ⑩ REMOVE AND RELOCATE EXISTING CUSTODIAL WALL-MOUNTED EQUIPMENT. COORDINATE NEW LOCATION IN EXISTING TOOL ROOM WITH OWNER.
 - ⑪ REMOVE EXISTING WALL AND PREP OPENING FOR NEW MECHANICAL EQUIPMENT
- NOTE: SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



① EXISTING FLOOR PLAN
SCALE: 1/8" = 1'-0"



Scale: AS NOTED

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: TIM COTE, P.E. HNTB

	By	Date	By	Date	
Designed	MFH	09/11/23	Checked	MFH	09/11/23
Drawn	MGK	09/11/23	In Charge of		

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GHA PROJECT NO. 221124

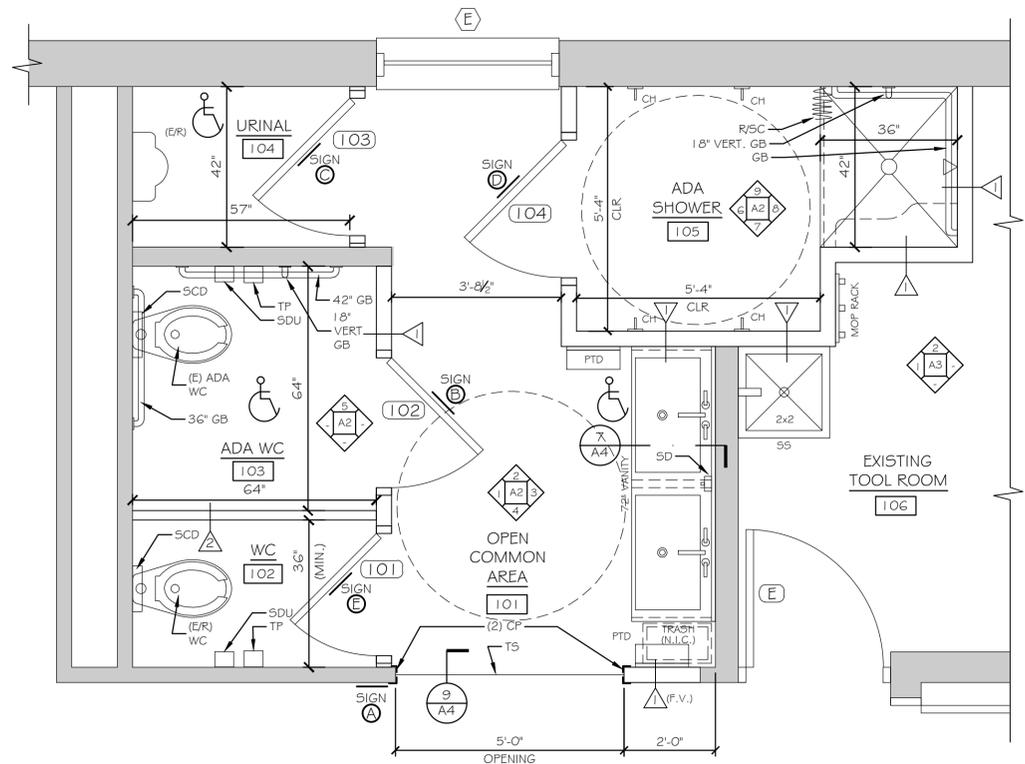
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: BRIAN TADDEO, P.E.

**RESTROOM UPGRADES
LITCHFIELD MAINTENANCE YARD
EXISTING / DEMOLITION FLOOR PLANS
PHOTOGRAPHS FOR REFERENCE ONLY**

SHEET NUMBER: A-1
CONTRACT: 2023.09
3 OF 12



PROPOSED RESTROOM FLOOR PLAN

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

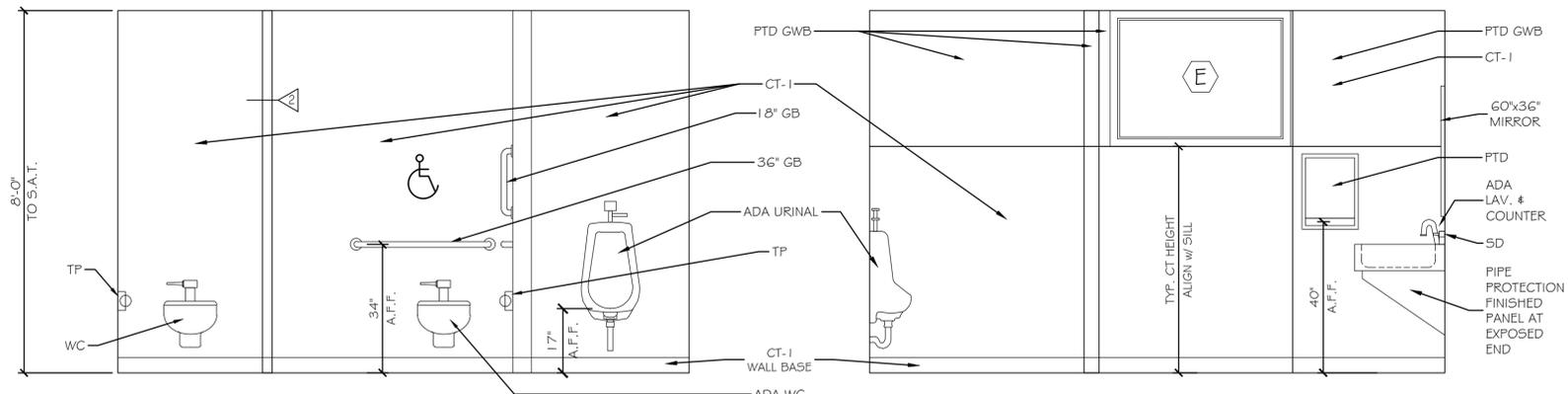
NOTE: ALL DIMENSIONS ARE CLEAR U.N.O.



PARTITION LEGEND	
TAG	DETAIL
	1 A4
	2 A4

TOILET ACCESSORY LEGEND

B.O.	BY OWNER
CH	CLOTHES HOOK
CP	CORNER PROTECTION
GB	GRAB BAR
PTD	PAPER TOWEL DISPENSER
R/SC	SHOWER ROD & CURTAIN
SD	SOAP DISPENSER
SCD	SEAT COVER DISPENSER
SDU	SANITARY DISPOSAL UNIT
TP	TOILET PAPER DISPENSER
WC	WATER CLOSET

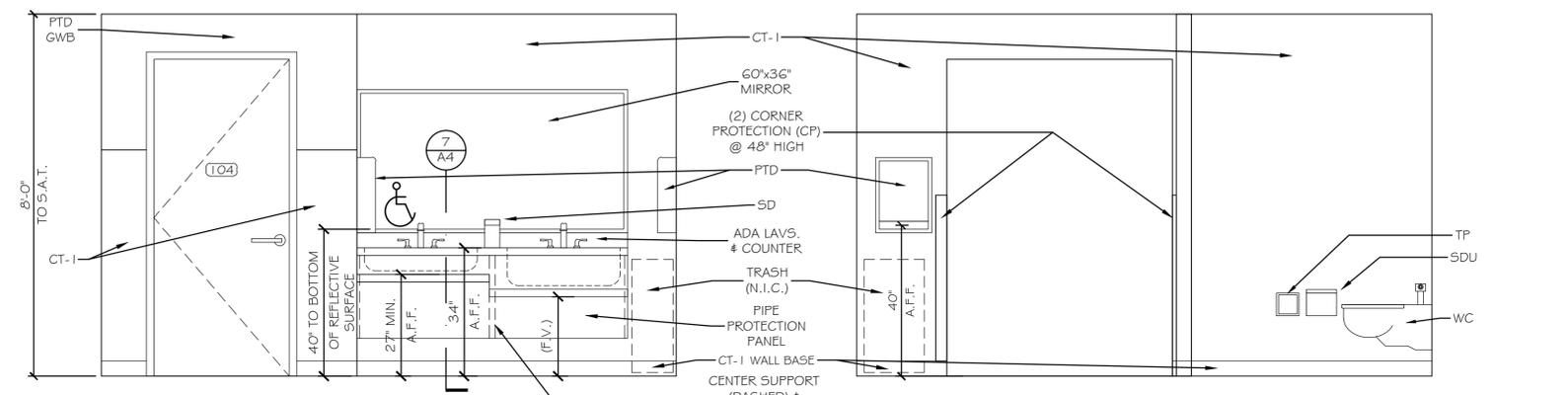


1 OPEN COMMON AREA / WC / URINAL

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

2 OPEN COMMON AREA / URINAL

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

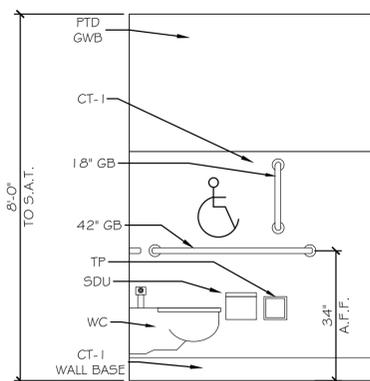


3 OPEN COMMON AREA

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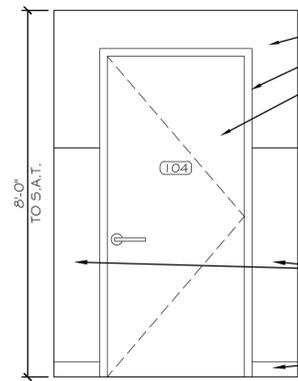
4 OPEN COMMON AREA / WC

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



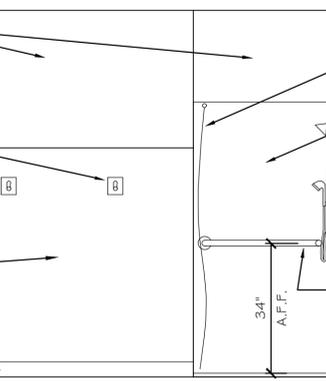
5 ADA WC

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



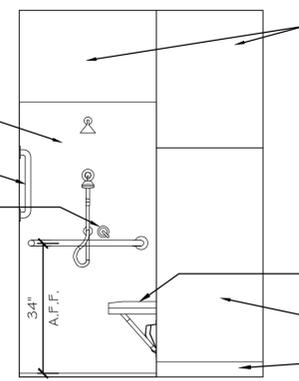
6 ADA SHOWER

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



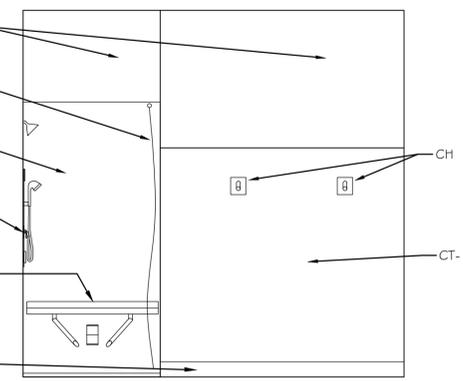
7 ADA SHOWER

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



8 ADA SHOWER

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



9 ADA SHOWER

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

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

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: TIM COTE, P.E. HNTB

	By	Date	By	Date	
Designed	MFH	09/11/23	Checked	MFH	09/11/23
Drawn	MGK	09/11/23	In Charge of		

GRANT HAYS ASSOCIATES

ARCHITECTURE & INTERIOR DE/IG/1
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GHA PROJECT NO. 221124

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

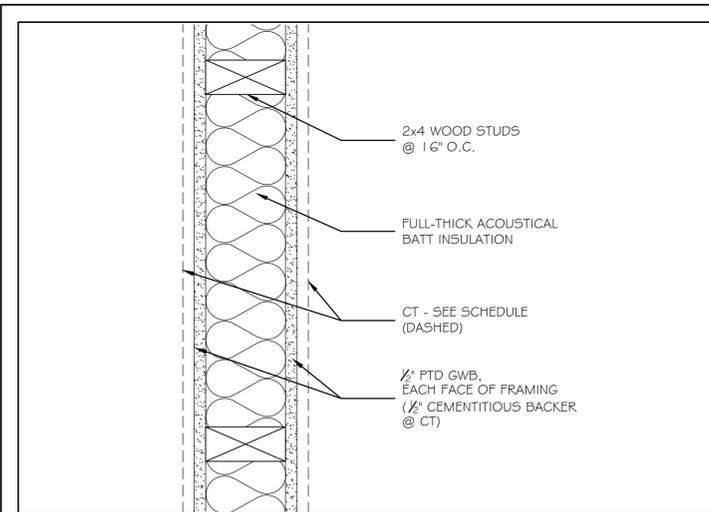
MTA PROJECT MANAGER: BRIAN TADDEO, P.E.

**RESTROOM UPGRADES
LITCHFIELD MAINTENANCE YARD
PROPOSED RESTROOM PLANS & ELEVATIONS**

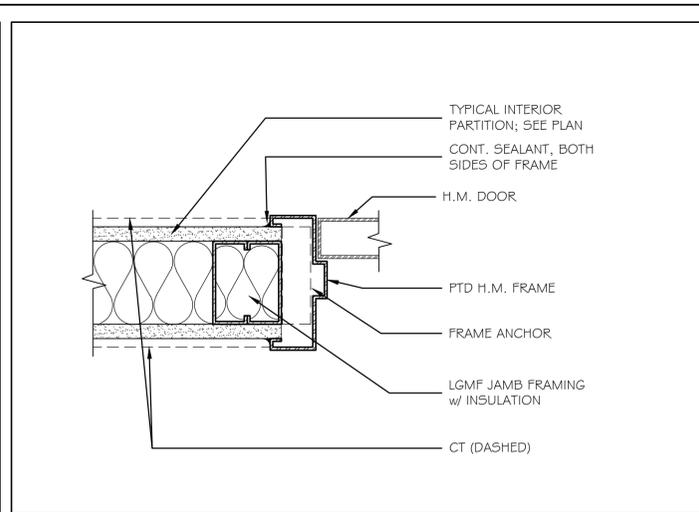
CONTRACT: 2023.09

SHEET NUMBER: A-2

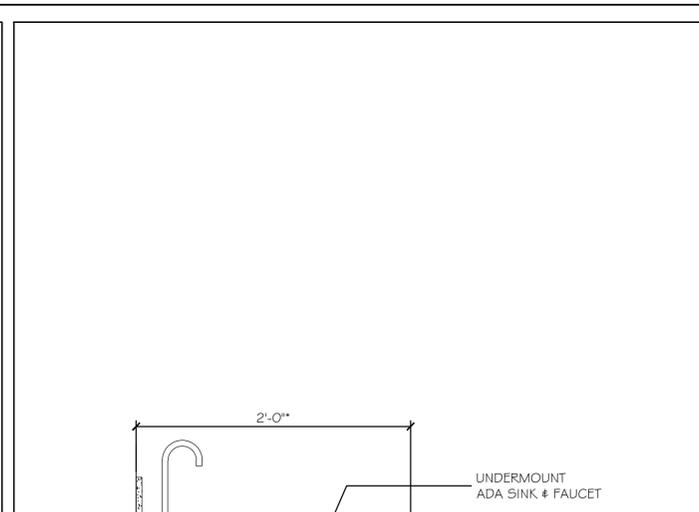
4 OF 12



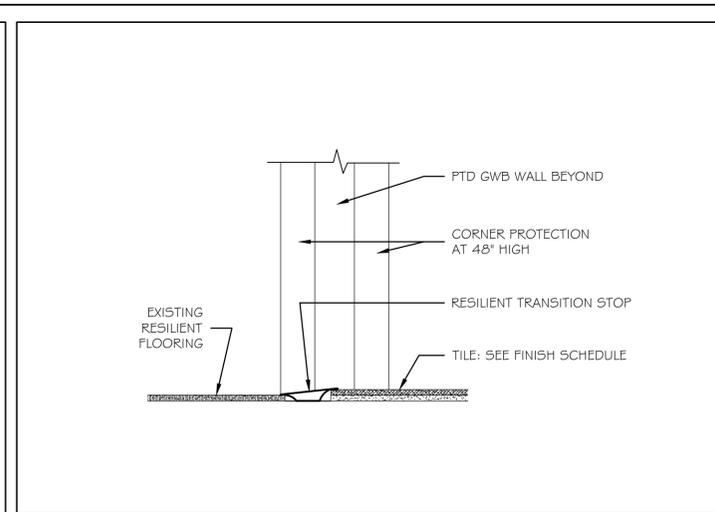
① PARTITION TYPE 3" = 1'-0"



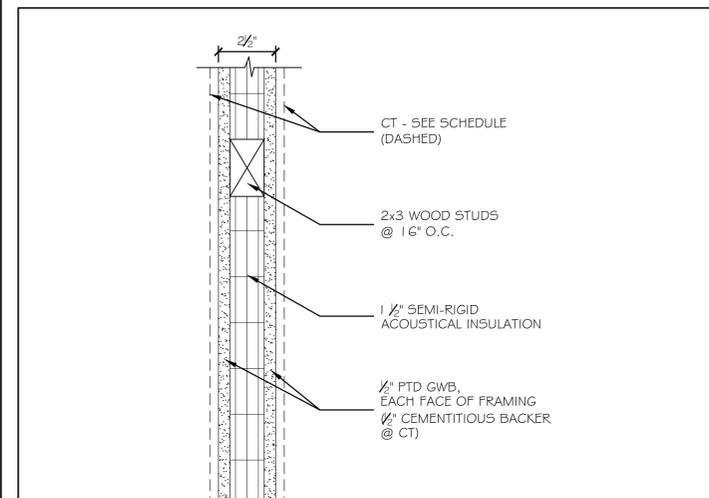
④ INTERIOR DOOR JAMB DETAIL 3" = 1'-0"



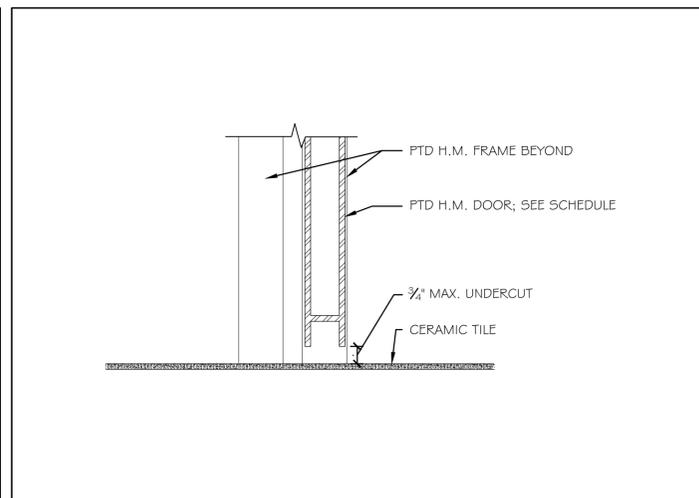
⑦ SECTION AT ADA LAVATORY COUNTER 1 1/2" = 1'-0"



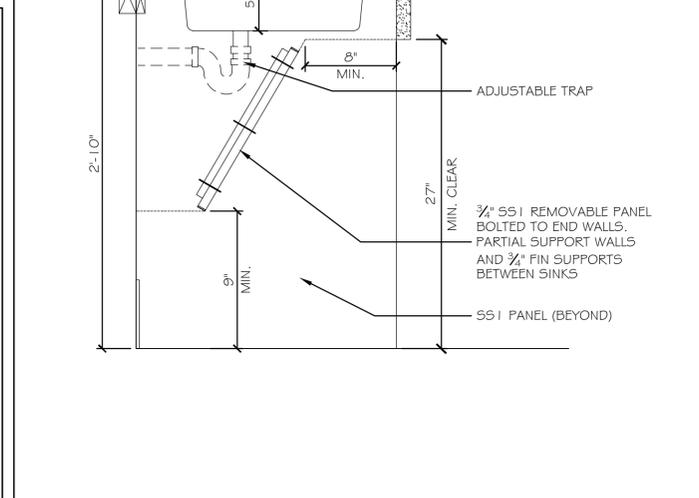
⑨ TILE / RESILIENT FLOORING TRANSITION DETAIL 3" = 1'-0"



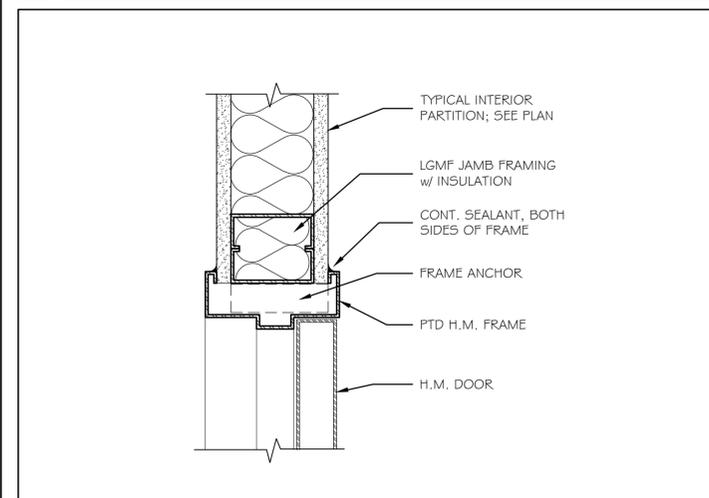
② PARTITION TYPE 3" = 1'-0"



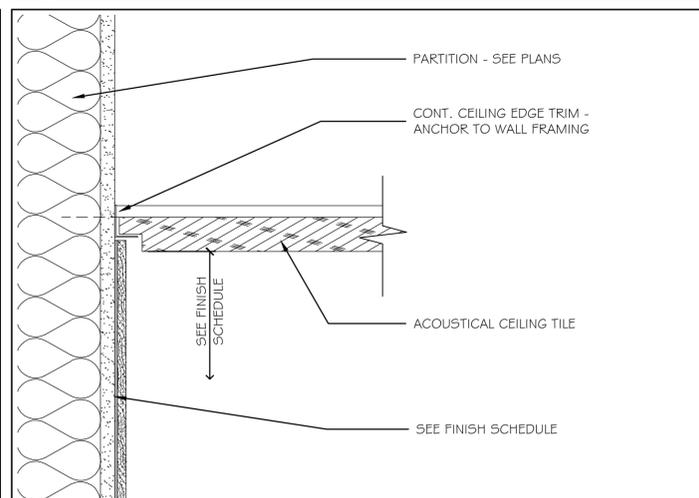
⑤ INTERIOR DOOR SILL DETAIL 3" = 1'-0"



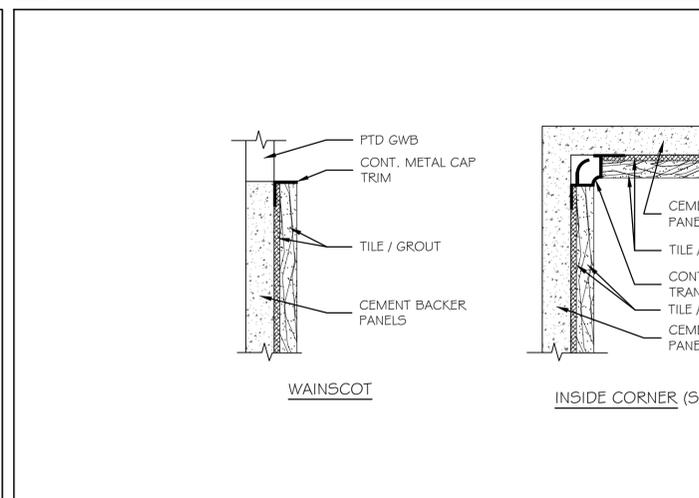
⑩ NOT USED



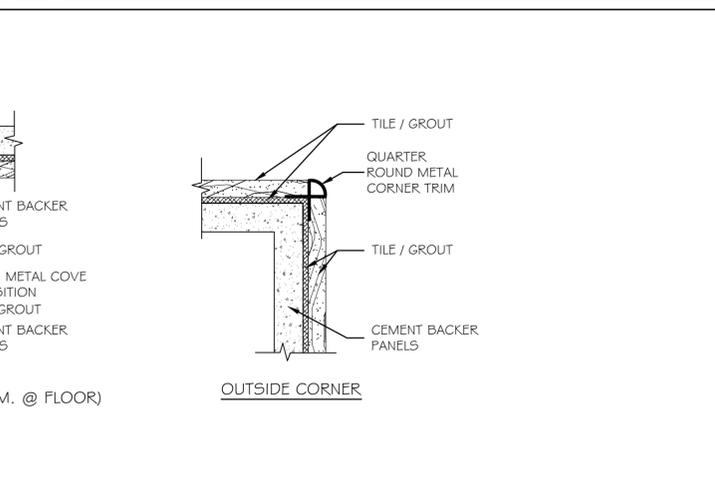
③ INTERIOR DOOR HEAD DETAIL 3" = 1'-0"



⑥ SILL AT OVERHEAD SECTIONAL DOOR/EXT. METAL PANEL 3" = 1'-0"



⑧ TILE TRANSITION DETAILS 6" = 1'-0"



⑧ TILE TRANSITION DETAILS 6" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: TIM COTE, P.E. HNTB

	By	Date	By	Date	
Designed	MFH	09/11/23	Checked	MFH	09/11/23
Drawn	MGK	09/11/23	In Charge of		

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MAINE TURNPIKE
THE GOLD STAR MEMORIAL HIGHWAY

RESTROOM UPGRADES
LITCHFIELD MAINTENANCE YARD
DETAILS

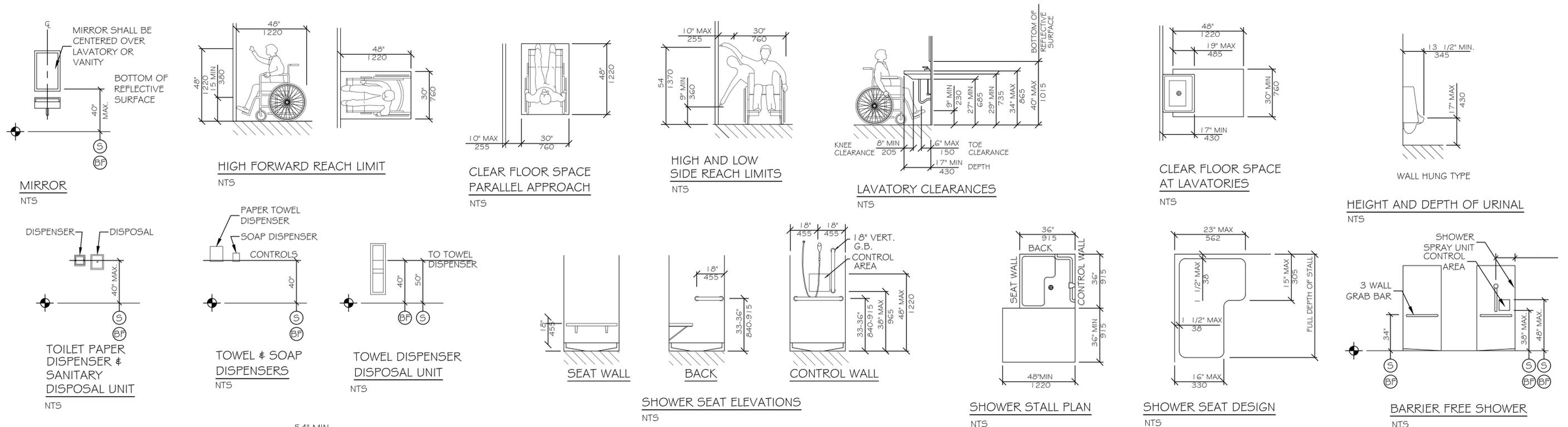
GHA PROJECT NO. 221124

MTA PROJECT MANAGER: BRIAN TADDEO, P.E.

CONTRACT: 2023.09

SHEET NUMBER: A-4

6 OF 12



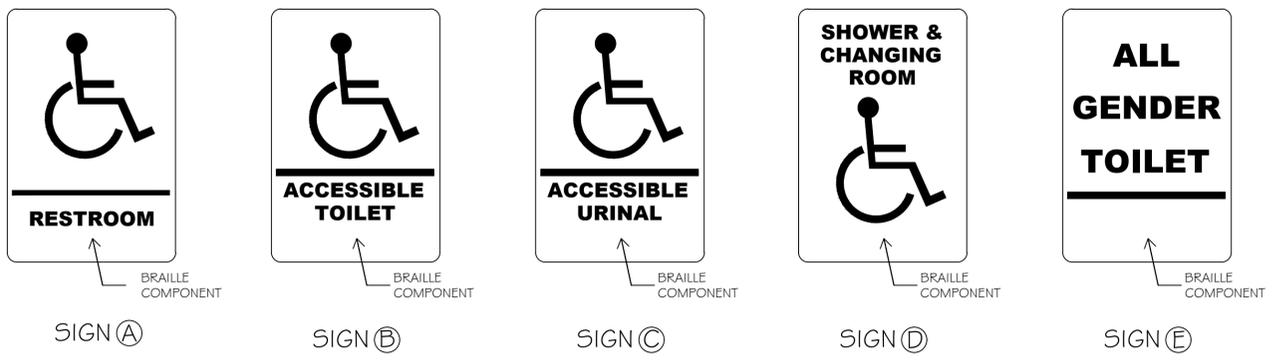
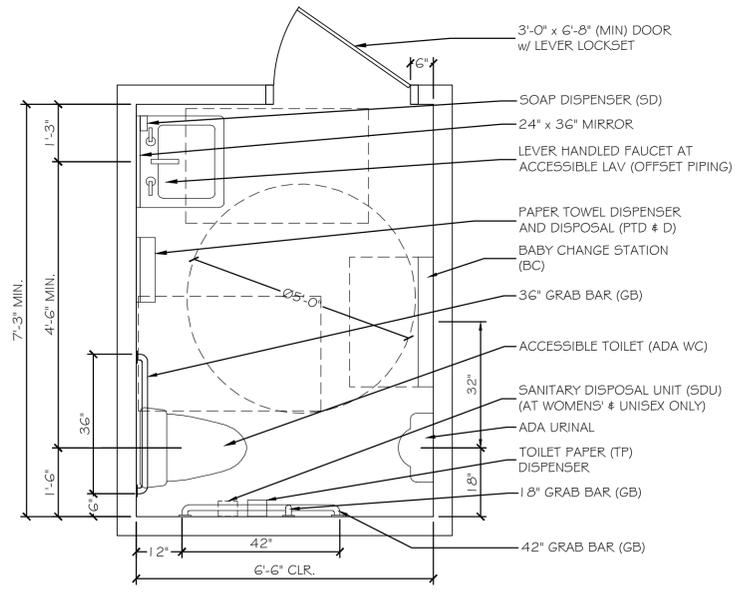
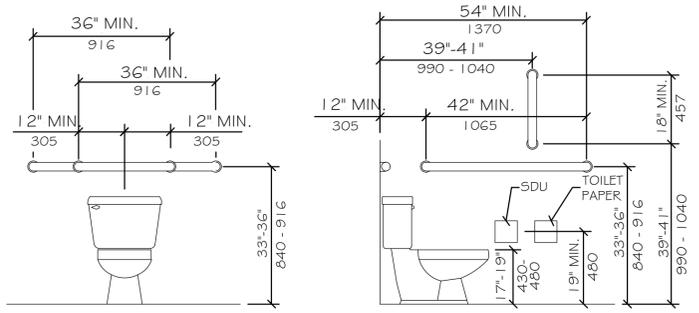
LEGEND

- Ⓢ STANDARD MOUNTING HEIGHT
- Ⓟ BARRIER FREE ADULT MOUNTING HEIGHT
- Ⓡ FINISH FLOOR LINE

NOTE
MOUNT ALL FIXTURES AT STANDARD MOUNTING HEIGHT UNLESS INDICATED ON PLAN BY A Ⓢ SYMBOL. A Ⓟ SYMBOL AT ANY ROOM SHALL INCLUDE ONE OF ANY FIXTURE AND ACCESSORY WITHIN THE ROOM.

ACCESSIBILITY GENERAL NOTES

1. 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.
2. ALL DOORS SHALL HAVE LEVER HANDLE HARDWARE, EXCEPT AT SECURED STORAGE ROOMS, MECHANICAL ROOMS, AND ELEVATOR MACHINE ROOMS.
3. ALL CLOSERS SHALL BE 5LB PULL MAXIMUM AT DOORS EQUIPPED WITH LEVER HANDLE HARDWARE.
4. 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.
5. 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.
6. ALL SIGNAGE SHALL BE MOUNTED 60" AFF TO BRAILLE COMPONENT AT LATCH-SIDE WALL OF DOORS AND OPENINGS.
7. COMPLY WITH 2010 EDITION OF THE AMERICANS WITH DISABILITIES ACT.



Scale: NO SCALE

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: TIM COTE, P.E. HNTB

	By	Date	By	Date	
Designed	MFH	09/11/23	Checked	MFH	09/11/23
Drawn	MGK	09/11/23	In Charge of		

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GHA PROJECT NO. 221124

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: BRIAN TADDEO, P.E.

**RESTROOM UPGRADES
LITCHFIELD MAINTENANCE YARD
ACCESSIBILITY DETAILS & NOTES**

SHEET NUMBER: A-5

CONTRACT: 2023.09

7 OF 12

ENERGY RECOVERY UNIT SCHEDULE		
GENERAL	TAG	ERV-1
	SERVES	RESTROOMS/ADMIN
	LOCATION	CORRIDOR
	TYPE	FIXED-PLATE ENTHALPIC
	MFR	RENEWAIRE
	MODEL	HE1X1NH
FILTER SECTION	FILTERS	2" MERV 13
(TYP-2, SUPPLY & EXH)	MIN. AREA, sf	2.8
	VELOCITY	108
OUTSIDE AIR FAN	TYPE	FC
	AIRFLOW, cfm	300
	ESP, in. wc.	1"
	MOTOR SPEEDS	ECM
	HP	0.5
EXHAUST AIR FAN	TYPE	FC
	AIRFLOW, cfm	300
	ESP, in. wc.	1"
	MOTOR SPEEDS	ECM
	HP	0.5
OVERALL DIMENSIONS	LENGTH	55"
	WIDTH	24"
	HEIGHT	35"
	OPERATING WEIGHT, lbs.	280
HEAT RECOVERY CORE	SUMMER OA DB/WB	88 / 72
	WINTER OA DB	-10
	SUMMER SA DB/WB	77.9 / 66.1
	WINTER SA DB	52
	SENSIBLE EFFECTIVENESS	77.0%
	SUMMER ENTHALPY EFF.	64.0%
	WINTER ENTHALPY EFF.	77.0%
	FROST CONTROL	NONE REQUIRED
ELECTRICAL DATA	V-PH-HZ	120/1/60
	UNIT FLA	16.2
	UNIT MCA	18.2
	MAX FUSE SIZE	25 A
	SUPPLY AND RETURN SMOKE DETECTORS	NA
NOTES:	1. ERU MFR. SHALL PROVIDE STARTERS, NF DISCONNECT, 24VAC TRANSFORMER/RELAY PACKAGE.	

PLUMBING PUMP SCHEDULE											
TAG	SERVES	MFR.	MODEL	TYPE	GPM	HEAD	CONN SIZES	ELECTRICAL		SUMP	NOTES
								MOTOR HP	VOLTS/PH (60 Hz.)		
RCP-1	DHW RECIRC	GRUNDFOS	UPS 32-160 FB	3 SPEED CIRCULATOR	2	39	3/4" X 3/4"	625 W	115/1	---	1
NOTES: 1. SEE SPEC SECTION 221116.											

ELECTRIC DUCT HEATING COIL SCHEDULE														
TAG	MANUFACTURER - MODEL	SERVES	AIRFLOW	LENGTH (IN)	HEIGHT (IN)	DUCT COLLAR (IN)	FACE VEL	EDB	LDB	MAX APD	BTUH	KW	AMPS	VOLT / PH
DC-1	RENEWAIRE RH	ERV-1	300	15.5	12	10	232	25	75	0.2"	16,200	5.0	20.8	240/1
NOTES: 1. Provide SCR Heating Control 2. Provide disconnect switch. 3. Accessories: Airflow switch, duct thermostat, magnetic contactor, and pilot light. 4. Coordinate control box location - LH or RH for proper maintenance access. 5. Provide duct mounted thermostat														

RADIANT CEILING PANEL SCHEDULE (ELECTRIC)						
TAG	QMARK MODEL No.	WATTS	ELECT	PANEL WIDTH	PANEL LENGTH	INSULATION
RCP-1	CP372	375	240/1	24"	24"	1"
RCP-2	CP502	500	240/1	24"	48"	1"
NOTES:						

REGISTERS - GRILLES - DIFFUSERS (RGD) SCHEDULE											
TAG	MFR.	MODEL	TYPE	NECK SIZE	FACE SIZE	MAX CFM	MAX TOTAL P.D. (IN W.C.)	MAX NC LEVEL	BLOW	NOTES	
S-1	PRICE	SMDA	SQ. CEILING SUPPLY DIFFUSER, ADJUSTABLE	6 X 6 / 6" DIA	12" X 12"	100	0.07"	15		ROUND NECK ADAPTER, SURFACE MOUNT FRAME	
E-1	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	8" X 8"	9.75" X 9.75"	110	0.05"	20	-----	6" DIA RUNOUT, SURFACE MOUNT FRAME	

PLUMBING FIXTURE SCHEDULE						
TAG	DESCRIPTION	BRANCH SIZES				NOTES
		CW	HW	VENT	WASTE	
WC-1	WATER CLOSET-FLUSHTANK, WALL MOUNT-ADA	1/2"	---	2"	3"	
U-1	URINAL	3/4"	---	1-1/2"	2"	
P-1	LAVATORY, DROP IN	1/2"	1/2"	1-1/2"	1-1/2"	
P-1A	ADA LAVATORY - UNDERMOUNT	1/2"	1/2"	1-1/2"	1-1/2"	
P-2	ADA TRANSFER SHOWER	1/2"	1/2"	1-1/2"	2"	
P-3	MOP SERVICE BASIN	1/2"	1/2"	1-1/2"	3"	

LOUVER SCHEDULE																
TAG	MFR.	MODEL	AIR SYSTEM	DUTY	CFM	DIMENSIONS						BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ/SF	MAX P.D. MAX W.C.	SCREEN	NOTES	
						WIDTH (IN.)	HEIGHT (IN.)	MIN. FREE AREA (SF)	GROSS VELOCITY (FT/MIN)	NET VELOCITY (FT/MIN)	% FREE AREA					BLADE DEPTH
L-1	RUSKIN	ELF445DX		INTAKE	300	24	24	1.72	75.0	174.4	43.0%	4"	873 FPM	0.06	INSECT	
L-2	RUSKIN	ELF445DX		EXHAUST	300	24	24	1.72	75.0	174.4	43.0%	4"	873 FPM	0.06	INSECT	

A1 MECHANICAL SCHEDULES

Scale: AS NOTED

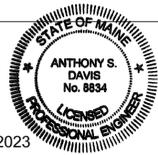
Designed by:

ANTHONY S. DAVIS, P.E.

ISSUED FOR CONSTRUCTION - SEPTEMBER 11, 2023

CONSULTANT PROJECT MANAGER:

By	Date	By	Date
ASD		ASD	
Drawn	REW	In Charge of	



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**LITCHFIELD MAINTENANCE
RESTROOM RENOVATION
MECHANICAL SCHEDULES**

AEI PROJECT No.: 22095

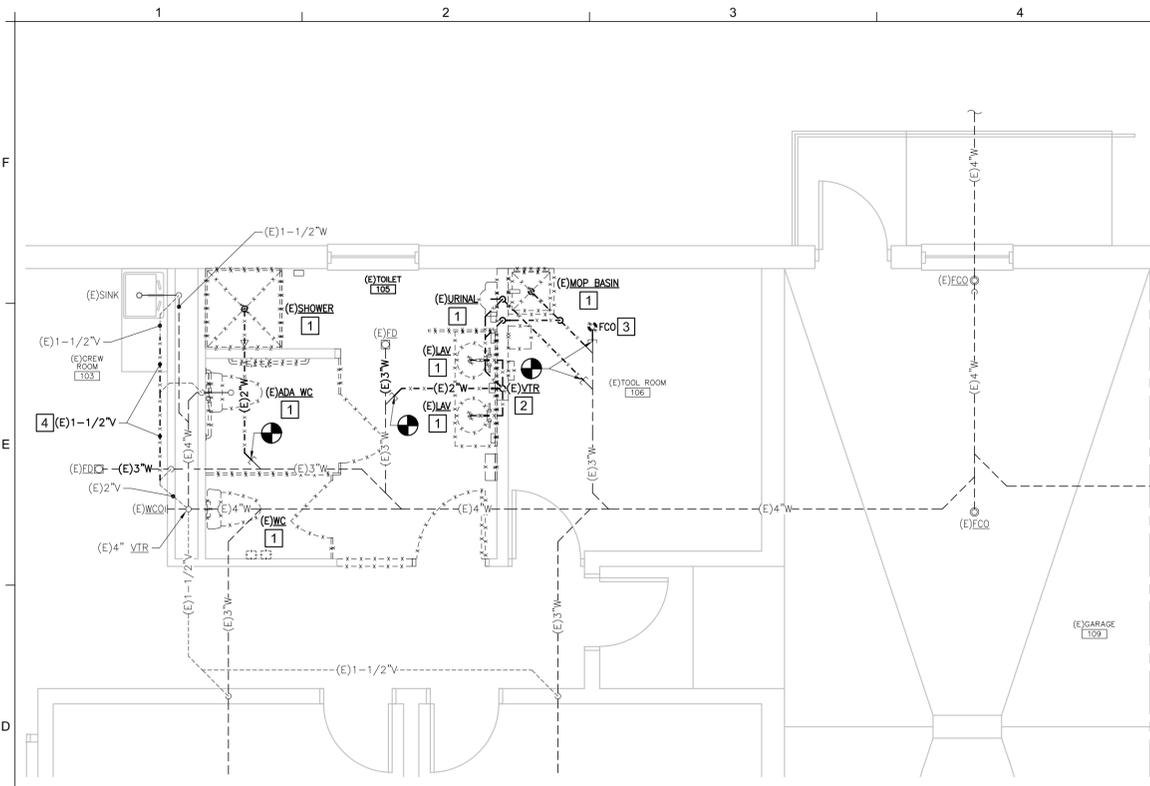
MTA PROJECT MANAGER:

BRIAN TADDEO

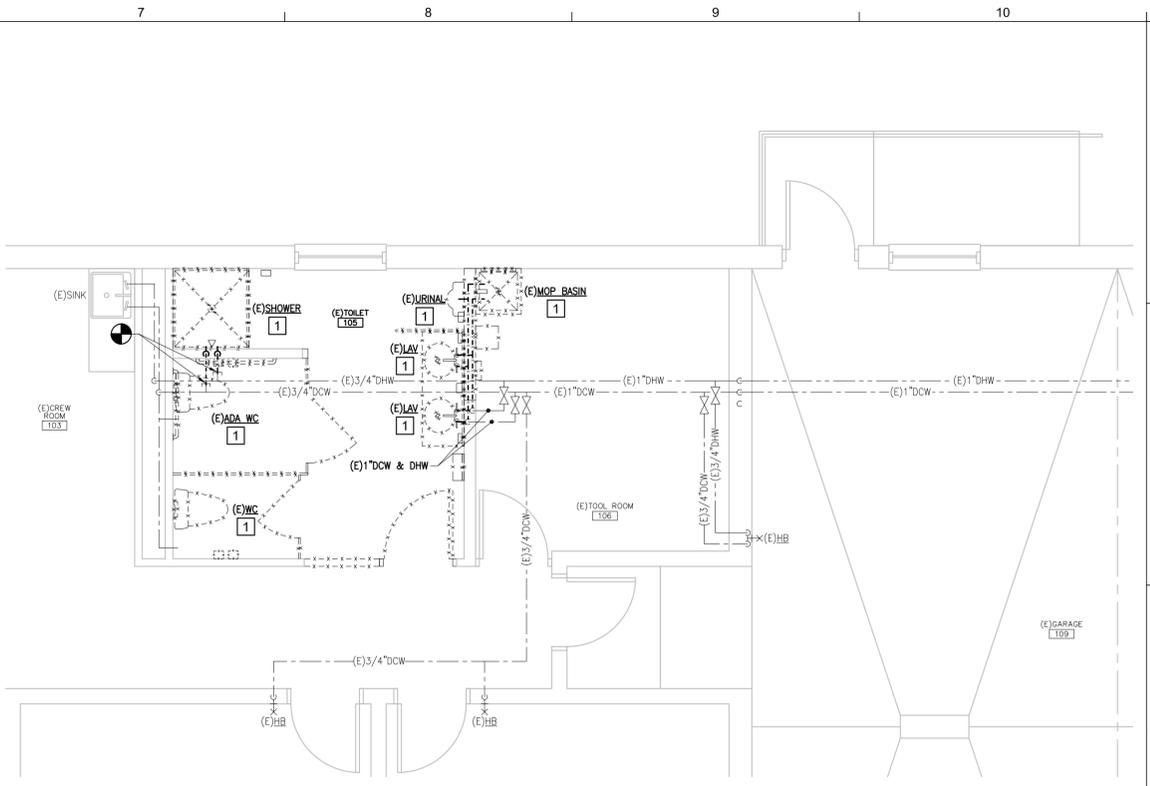
CONTRACT: 2023-09

SHEET NUMBER: M-2

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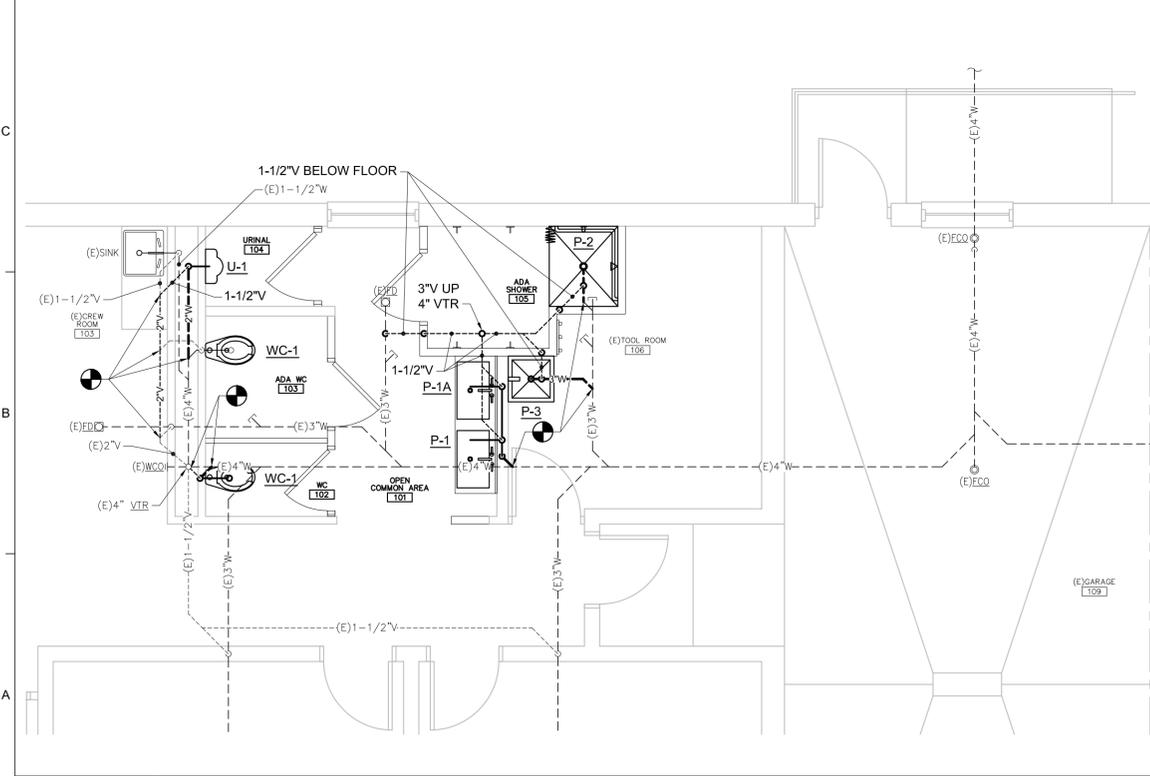
- D5 DEMOLITION KEYED NOTES**
- 1 REMOVE EXISTING PLUMBING FIXTURE COMPLETE. REMOVE / REVISE EXISTING BRANCH PIPING AS REQUIRED TO FACILITATE INSTALLATION OF NEW ROUGH-IN PIPING FOR NEW FIXTURES. WHERE EXISTING BRANCH CONNECTIONS ARE NOT USED TO SERVE NEW FIXTURES, CAP AT EXISTING MAINS.
 - 2 REMOVE EXISTING VENT THROUGH ROOF COMPLETE.
 - 3 REMOVE EXISTING FLOOR CLEANOUT AND UNDER FLOOR WASTE AS INDICATED.
 - 4 REMOVE SECTION OF EXISTING 1-1/2\"/>



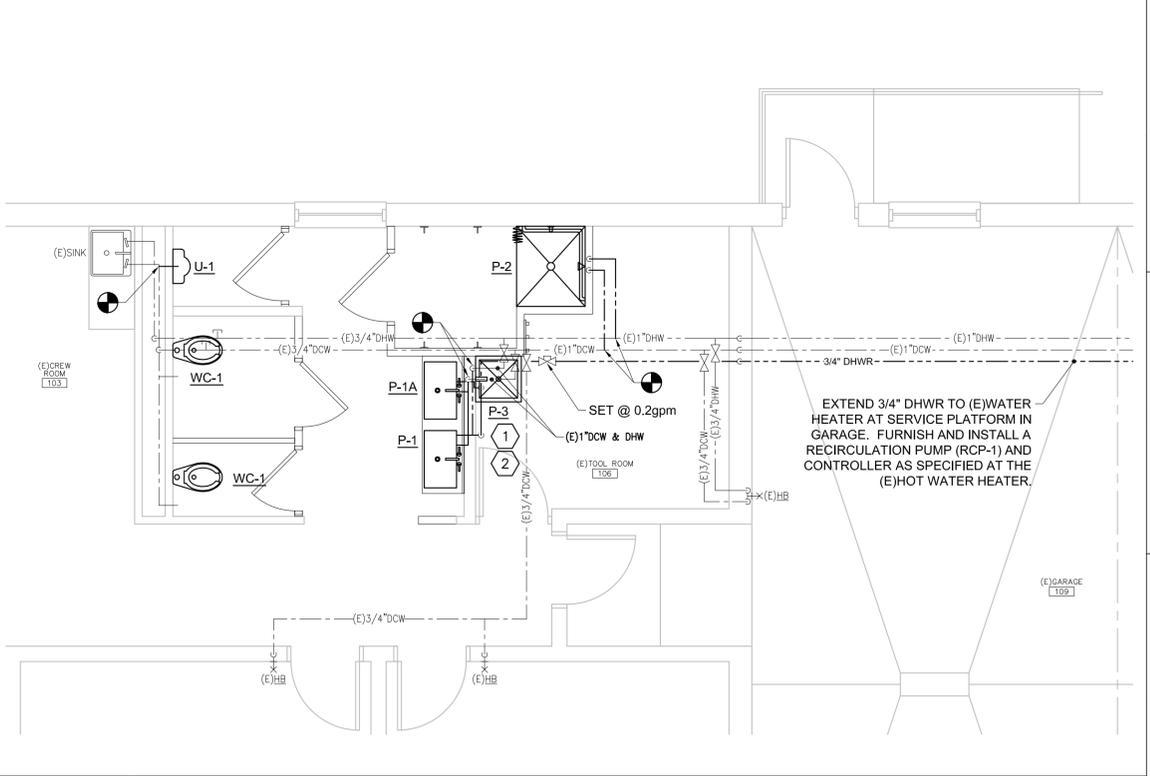
D1 SANITARY PIPING DEMOLITION PART PLAN
1/4" = 1'-0"

D5 DEMOLITION KEYED NOTES
NONE

D7 DOMESTIC PIPING DEMOLITION PART PLAN
1/4" = 1'-0"



- A5 KEYED NOTES**
- 1 FURNISH AND INSTALL A THERMOSTATIC MIXING VALVE AT EACH LAVATORY AS SPECIFIED, TO PREVENT SCALDING.
 - 2 HOT WATER RECIRCULATION LINE SHALL DROP AND CONNECT TO THE DHW LINE WITHIN 2'-0" OF THE FAUCET.



A1 SANITARY PIPING PART PLAN
1/4" = 1'-0"

A5 KEYED NOTES
NONE

A7 DOMESTIC PIPING PART PLAN
1/4" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date
-	-	-	-

Designed by: *Anthony S. Davis*

ANTHONY S. DAVIS, P.E.

ISSUED FOR CONSTRUCTION - SEPTEMBER 11, 2023

CONSULTANT PROJECT MANAGER:

	By	Date	By	Date
Designed	ASD		Checked	ASD
Drawn	REW		In Charge of	

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: BRIAN TADDEO

LITCHFIELD MAINTENANCE RESTROOM RENOVATION PLUMBING PART PLANS

SHEET NUMBER: P-1
10 OF 12

CONTRACT: 2023-09

LIGHTING:

- ☒ DOWN LIGHT
- ☐ WALL MOUNTED FIXTURES
- ☐ DUAL HEAD EMERGENCY LIGHT BATTERY PACK
- S_{OS} OCCUPANCY SENSOR SWITCH
- S SINGLE POLE TOGGLE SWITCH

POWER:

- ☐ DUPLEX RECEPTACLE, NEMA 5-20R
- ☐ GFCI DUPLEX RECEPTACLE, NEMA 5-20R
- ☐ JUNCTION BOX

LINE TYPES:

- _____ EXISTING
- _____ NEW
- DEMOLITION

ABBREVIATIONS:

- AC ALTERNATING CURRENT
- AMP AMPERE
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AIC AMPERE INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISHED GRADE
- BLDG BUILDING
- BOS BOTTOM OF STEEL
- C CONDUIT
- CB CIRCUIT BREAKER
- CLG CEILING
- CT CURRENT TRANSFORMER
- CU COPPER
- DB DIRECT BURIED
- DC DIRECT CURRENT
- DISC DISCONNECT
- DN DOWN
- EMT ELECTRICAL METALLIC TUBING
- EQP EQUIPMENT
- EXIST EXISTING
- FBO FURNISHED BY OTHERS
- FLR FLOOR
- FWE FURNISHED WITH EQUIPMENT
- G GROUND
- GEN GENERATOR
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND
- HP HORSEPOWER
- HTR HEATER
- IMC INTERMEDIATE METAL CONDUIT
- K KILO
- KCMIL THOUSAND CIRCULAR MILS
- KV KILOVOLT
- KVA KILOVOLT-AMPERE
- KW KILOWATT
- KWH KILOWATT-HOUR
- LTG LIGHTING
- MC METAL CLAD
- MCB MAIN CIRCUIT BREAKER
- MFR MANUFACTURER
- MLO MAIN LUG ONLY
- MTD MOUNTED
- MV MEDIUM VOLTAGE
- NEC NATIONAL ELECTRICAL CODE
- NEG NEGATIVE
- NEUT NEUTRAL
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- P POLE
- PH PHASE
- PVC POLYVINYL CHLORIDE
- RGS RIGID GALVANIZED STEEL CONDUIT
- RECEPT RECEPTACLE
- RM ROOM
- RSC RIGID STEEL CONDUIT
- SWBD SWITCHBOARD
- SWGR SWITCHGEAR
- TOS TOP OF STEEL
- TYP TYPICAL
- V VOLT
- VA VOLT-AMPERE
- VAR VOLT-AMPERE REACTIVE
- WM WATT METER
- XFMR TRANSFORMER

GENERAL NOTES:

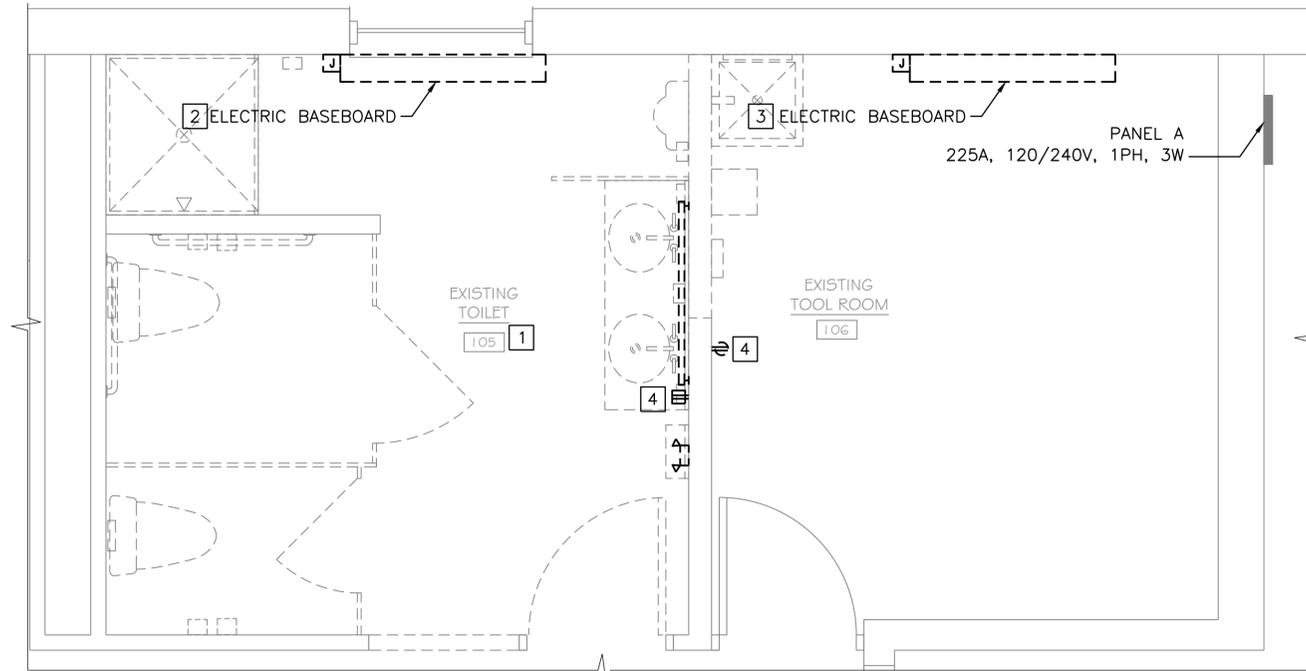
1. GENERAL NOTES, SYMBOL LISTS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
2. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. USE JUDGMENT AND CARE TO INSTALL ELECTRICAL WORK TO FUNCTION PROPERLY AND FIT WITHIN BUILDING CONSTRUCTION AND FINISHES. ELECTRICAL CONDUCTORS, CONDUIT, COMPONENTS, NOT SHOWN OR SPECIFIED, WHICH ARE REQUIRED FOR ANY DEVICE OR SYSTEM TO PRODUCE A COMPLETE AND OPERATIVE SYSTEM ARE REQUIRED TO BE FURNISHED AND INSTALLED.
3. PERFORM WORK IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC) 2020.
4. VERIFY THAT FIELD MEASUREMENTS, SURFACES, SUBSTRATES AND CONDITIONS ARE AS REQUIRED, AND READY TO RECEIVE WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. BY BEGINNING WORK, CONTRACTOR ACCEPTS CONDITIONS AND ASSUMES RESPONSIBILITY FOR CORRECTING UNSUITABLE CONDITIONS ENCOUNTERED AT NO ADDITIONAL COST.
5. REMOVE ELECTRICAL EQUIPMENT WHERE INDICATED. REMOVE CONDUIT, CIRCUIT CONDUCTORS, SWITCHES, LIGHTING FIXTURES AND MISCELLANEOUS APPLIANCES BACK TO ENERGIZING SOURCE OR JUNCTION BOX WHERE MULTIPLE EQUIPMENT IS POWERED.
6. CONDUCTOR MATERIAL, INCLUDING WIRING, PANELBOARD BUSES, TRANSFORMER WINDINGS, AND GROUNDING MUST BE COPPER. ALUMINUM CONDUCTORS ARE NOT ALLOWED.
7. UNLESS OTHERWISE NOTED, FOR 20A-1P BRANCH CIRCUIT WIRING USE 2#12 AWG CONDUCTORS AND #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET USE #10 AWG.
8. PROVIDE COMMERCIAL SPECIFICATION GRADE 277/120 VOLT LIGHTING TOGGLE SWITCHES, SIDE WIRED AND WITH GROUNDING SCREW. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH OWNER.
9. PROVIDE COMMERCIAL SPECIFICATION GRADE CONVENIENCE RECEPTACLES, GROUNDING TYPE NEMA 5-20R, SIDE WIRED. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL.
10. PROVIDE NYLON SMOOTH WALL PLATES FOR FINISHED PARTITIONED SPACES WIRING DEVICES.
11. UNLESS OTHERWISE NOTED, PROVIDE TYPE EMT CONDUIT FOR INTERIOR RACEWAY, TYPE RGS CONDUIT FOR EXTERIOR RACEWAY, LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO MOTORS, AND FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO LIGHT FIXTURES (MAXIMUM 6FT LENGTH).
12. PROVIDED EQUIPMENT DISCONNECTS AND MANUAL MOTOR STARTERS UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE). INCLUDE FUSES RATED FOR PROTECTION OF LOAD SUPPLIED. MOUNT DISCONNECTS AND MOTOR STARTERS IN AN ACCESSIBLE LOCATION WITHIN SIGHT OF THE LOAD SERVED. DISCONNECTS AND MOTOR STARTERS MUST BE LOCKABLE IN THE OPEN POSITION.
13. UNLESS OTHERWISE NOTED MOUNT CONVENIENCE RECEPTACLES 18" AFF, LAVATORY GFCI RECEPTACLES 48" AFF, LIGHTING TOGGLE SWITCHES 48" AFF. MEASUREMENTS ARE MADE TO TOP OF DEVICE.
14. SEAL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF SEPARATION.

GENERAL NOTES CONTINUED:

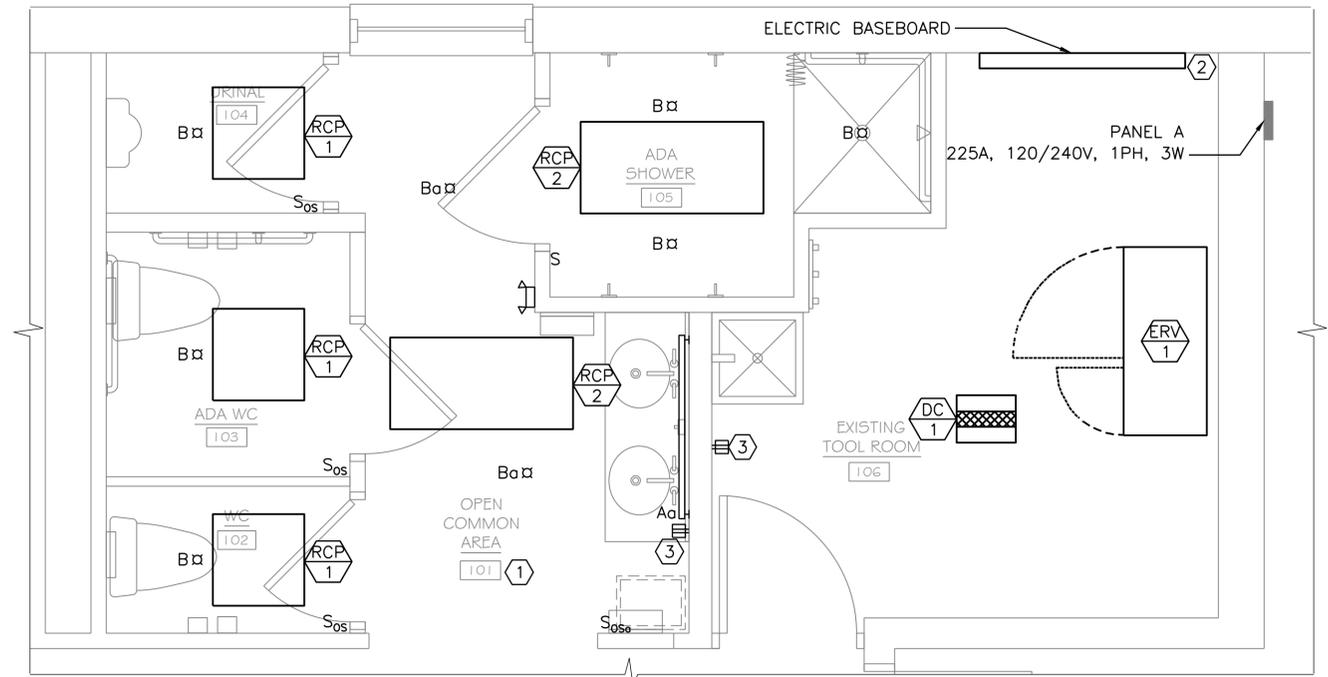
15. EQUIPMENT CONNECTIONS ARE SHOWN FOR BASIS-OF-DESIGN PRODUCTS. COORDINATE EQUIPMENT CONNECTIONS - INCLUDING DISCONNECTING MEANS, OVERCURRENT PROTECTION, AND WIRE SIZING - WITH SELECTED MANUFACTURER'S RECOMMENDED INSTRUCTIONS.
16. COORDINATE FINAL DEVICE LOCATIONS IN PARTITIONED SPACES WITH OWNER'S PROPOSED FURNITURE LAYOUT.
17. PROVIDE MOUNTING HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. MOUNT EQUIPMENT AND ROUTE CONDUIT SO AS NOT TO INTERFERE WITH OPERATIONS SUCH AS OVERHEAD DOORS, DOOR SWINGS, ACCESS POINTS, AND OTHER INSTALLATIONS.
18. MANUFACTURER'S NAMES AND MODEL NUMBERS ARE USED THROUGHOUT THE PROJECT FOR DESCRIPTIVE PURPOSES ONLY AND ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED. DESIGN IS PREDICATED AROUND LISTED MANUFACTURERS AS NOTED ON SCHEDULES AND NOTES AND IS NOT INTENDED TO LIMIT THE CONTRACTOR TO ONE MANUFACTURER.
19. SUPPLY DISTRIBUTION EQUIPMENT FROM THE SAME MANUFACTURER. APPROVED MANUFACTURERS INCLUDE SQUARE D, EATON/CUTLER-HAMMER, SIEMENS, OR APPROVED EQUAL.
20. UNLESS OTHERWISE NOTED WIRING MUST BE AS FOLLOWS:
 - A. LOW VOLTAGE INTERIOR DISTRIBUTION AND BRANCH WIRING MUST BE 600V, COPPER WITH THHN/THWN INSULATION
 - B. LOW VOLTAGE EXTERIOR DISTRIBUTION AND BRANCH WIRING MUST BE 600V, COPPER WITH XHHW INSULATION.
21. EQUIPMENT ENCLOSURES, SWITCHES, RECEPTACLES, AND DEVICES MUST BE LABELED WITH THE SOURCE CIRCUIT AND EQUIPMENT CONTROLLED WHERE APPLICABLE. ALL PANELBOARDS AND SWITCHBOARDS MUST HAVE APPROPRIATE ARC-FLASH LABELS INSTALLED IN ACCORDANCE WITH NFPA 70E REQUIREMENTS.
22. CONNECT EXIT SIGNS AND EMERGENCY LIGHTS TO THE UNSWITCHED LEG OF THE LIGHTING CIRCUIT IN THE ROOM THE DEVICE IS LOCATED.



Scale: AS NOTED		Designed by: COLBY COMPANY, LLC engineering & design 47A York Street, Portland, ME 04101 207.553.7753								<p>THE GOLD STAR MEMORIAL HIGHWAY</p>		<p>LITCHFIELD MAINTENANCE BATHROOM RENOVATION</p> <p>ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES</p>	
		CONSULTANT PROJECT MANAGER: JASON BEAULIEU, PE										47A York St Portland, ME 04101 207.553.7753	
No.	Revision	By	Date										
				Designed	JMB	09/11/23	Checked	JMB	09/11/23				
0	ISSUED FOR BID	JMB	09/11/23	Drawn	ACY	09/11/23	In Charge of						



TOILET 105 DEMOLITION PLAN
SCALE: 1/2" = 1'-0"



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

TYPE	DESCRIPTION	VOLT	MANUFACTURER (OR EQUAL)	WATTAGE	LUMENS	MOUNTING	NOTES
A	4' LINEAR VANITY LIGHT, SQUARE ACRYLIC LENS, WHITE FINISH, 35K COLOR TEMPERATURE	120	CURRENT LIGHTING 67L-W-D-4-4-SQ-C1-35K-D055-D01-1C-UNV	17	2200	WALL @ 7' AFF	
B	6" SQUARE DOWNLIGHT LED FIXTURE	120	CURRENT LIGHTING LTR-6SQD-H-SL10L-DM1 KTR06SQD-T-SL35K8WD-SS	12	1000	RECESSED	
⚡	DUAL HEAD EMERGENCY FIXTURE PROVIDED WITH THERMOPLASTIC HOUSING, NICKEL METAL HYDRIDE BATTERY, AND SELF-DIAGNOSTIC ELECTRONICS	120	CURRENT LIGHTING CU2SD	1	-	WALL	CONNECT ALL EMERGENCY LIGHTING FIXTURES TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.

LIGHTING FIXTURE SCHEDULE
SCALE: NTS

EQUIPMENT	LOCATION	SOURCE PANEL/CIRCUIT	OCF (AMP)	WIRE SIZE	CONDUIT SIZE	LOCAL DISC. SWITCH	LOAD	PH	VOLT	NOTES
RCP-1	ROOMS 102-104	PANEL A - 39, 41	20	(2) #12AWG, (1) #12 GND	3/4"	30A NF	375 W	1	240	
RCP-2	ROOMS 101, 105	PANEL A - 39, 41	20	(2) #12AWG, (1) #12 GND	3/4"	30A NF	500 W	1	240	
ERV-1	ROOM 106	PANEL A - 34	25	(2) #10 AWG, (1) #12 GND	3/4"	30S NF	18.2 A	1	120	REPLACE 20A BREAKER
DC-1	ROOM 106	PANEL A - 36,38	30	(2) #10 AWG, (1) #10 GND	3/4"	60A NF	4.7 KW	1	240	
RP-1	SEE NOTES	PANEL A - 40	20	(2) #12AWG, (1) #12 GND	3/4"	30A NF	1.6 KW	1	120	COORDINATE WITH PLUMBING FOR LOCATION

EQUIPMENT SCHEDULE
SCALE: NTS

NOTES:

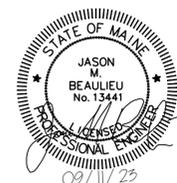
- SEE SHEET E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- SEE EQUIPMENT SCHEDULE FOR EQUIPMENT CIRCUITING AND DISCONNECT REQUIREMENTS.

DEMOLITION KEYED NOTES:

- LIGHTING FIXTURES - DEMOLISH AND RETAIN WIRING FOR REUSE JUNCTION ABOVE ACOUSTIC CEILING TILES.
- ELECTRIC BASEBOARD - DEMOLISH AND REMOVE WIRING BACK TO SOURCE.
- ELECTRICAL BASEBOARD - REMOVE AND RETAIN WIRING AND BASEBOARD FOR REUSE.
- RECEPTACLE - DEMOLISH, RETAIN WIRING FOR REUSE, PULLBACK WIRING AND JUNCTION ABOVE ACOUSTIC CEILING TILE.

KEYED NOTES:

- LIGHTING FIXTURES - REUSE RETAINED WIRING, EXTEND AS NECESSARY USING SAME AWG AND TYPE AS EXISTING.
- ELECTRIC BASEBOARD - REUSE RETAINED BASEBOARD AND WIRING, IF NECESSARY EXTEND WIRING USING SAME TYPE AND AWG.
- RECEPTACLE - REUSE RETAINED WIRING, IF NECESSARY EXTEND WIRING USING SAME TYPE AND AWG AS EXISTING.



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

Scale: AS NOTED

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Designed by: COLBY COMPANY, LLC engineering & design 47A York Street, Portland, ME 04101 207.553.7753			
CONSULTANT PROJECT MANAGER: JASON BEAULIEU, PE			
By	Date	By	Date
Designed JMB	09/11/23	Checked JMB	09/11/23
Drawn ACY	09/11/23	In Charge of	



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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: BRIAN TADDEO, PE

**LITCHFIELD MAINTENANCE
BATHROOM RENOVATION**
ELECTRICAL PLANS & SCHEDULES

CONTRACT: 2023.09

SHEET NUMBER: E-101

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