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<u>LOCATIO</u>	N MAP			
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MAINE	TURNPIKE AU THANKE AU MERFELD, P.ECHIEF	OPERATIONS OFF	ICER	DATE
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MAINE TURNPIKE AUTHORITY

THE GOLD STAR

ONTRACT 2019.12 MECHANICS GARAGE ELD MAINTENANCE YARD IILE MARKER 92.7

DANIEL E. WATHEN, CHAIR MICHAEL J. CIANCHETTE, MEMBER JOHN E. DORITY, MEMBER ANN R. ROBINSON, MEMBER ROBERT D. STONE, MEMBER THOMAS J. ZUKE, MEMBER BRUCE A. VAN NOTE, MEMBER EX-OFFICIO - MAINE DOT

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2019.12 NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7

ISSUED FOR BID 10/15/2019

	INDEX OF SHEETS
SHEET NO.	DESCRIPTION
C-001 C-100	EXISTING CONDITIONS PLAN OVERALL SITE PLAN AND UTILITY PLAN
C-101 C-102	SITE AND UTILITY PLAN GRADING, DRAINAGE, EROSION CONTROL PLAN
C-401 C-402	DETAILS-1 DETAILS-2
A-0	ARCHITECTURAL COVER SHEET
A-2	CODE COMPLIANCE PLANS FIRST FLOOR & MEZZANINE PLANS
A-4	REFLECTED CEILING PLANS ROOF PLAN & DETAILS
A-6	NORTH & SOUTH EXTERIOR ELEVATIONS EAST & WEST EXTERIOR ELEVATIONS BUILDING SECTIONS
A-8	WALL SECTIONS DOOR, WINDOW & FINISH SCHEDULES
A-10 A-11	WET CORE PLAN & ELEVATIONS PARTITION TYPES & DETAILS
A-12 A-13	STAIR PLAN, SECTION & DETAILS DETAILS
A-14	ACCESSIBILITY DETAILS & NOTES
S-000 S-001	STRUCTURAL - GENERAL INFORMATION STRUCTURAL - TYPICAL DETAILS
SB-100 SB-500	STRUCTURAL - FOUNDATION PLAN STRUCTURAL - FOUNDATION DETAILS
SF-100 SF-500	STRUCTURAL - FRAMING PLAN STRUCTURAL - DETAILS
P-000 PL-100 PP-100	PLUMBING AND HVAC NOTES, LEGEND AND ABBREVIATIONS SANITARY PIPING PLAN DOMESTIC PIPING PLAN
MH-100 MP-100 M-500	MECHANICAL PLANS MECHANICAL PIPING PLANS MECHANICAL DETAILS AND SCHEDULES
E-000	ELECTRICAL ABBREVIATIONS AND LEGENDS
EL-100	ELECTRICAL GENERAL NOTES AND SCHEDULES LIGHTING PLAN
EP-100	LIGHTING FIXTURE SCHEDULE AND DETAILS POWER AND SYSTEMS PLANS
EP-600	ELECTRICAL RISER DIAGRAM ELECTRICAL SCHEDULES ELECTRICAL SITE PLAN
	160 Veranda Street
d Eng	ineering Portland, Maine 04103 P: 207.221.2260
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	Electrical Plumbing F: 207.221.2266 Web:www.allied-eng.cor
1.	OF MA
1	State WILLIAM
hul	10-15-2019
ER, P.E. –	
D ENGINEERING, INC	DATE
ED ENGINEERING, INC	DATE
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ED ENGINEERING, INC	DATE
ED ENGINEERING, INC	DATE
	C-001 C-100 C-101 C-102 C-401 C-402 A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A-9 A-10 A-11 A-12 A-13 A-14 S-000 S-001 SB-100 SB-500 SF-100 SF-500 P-000 PL-100 PP-100 MH-100 MP-100 M-500 E-001 E-010 E-500 EP-600 ES-100

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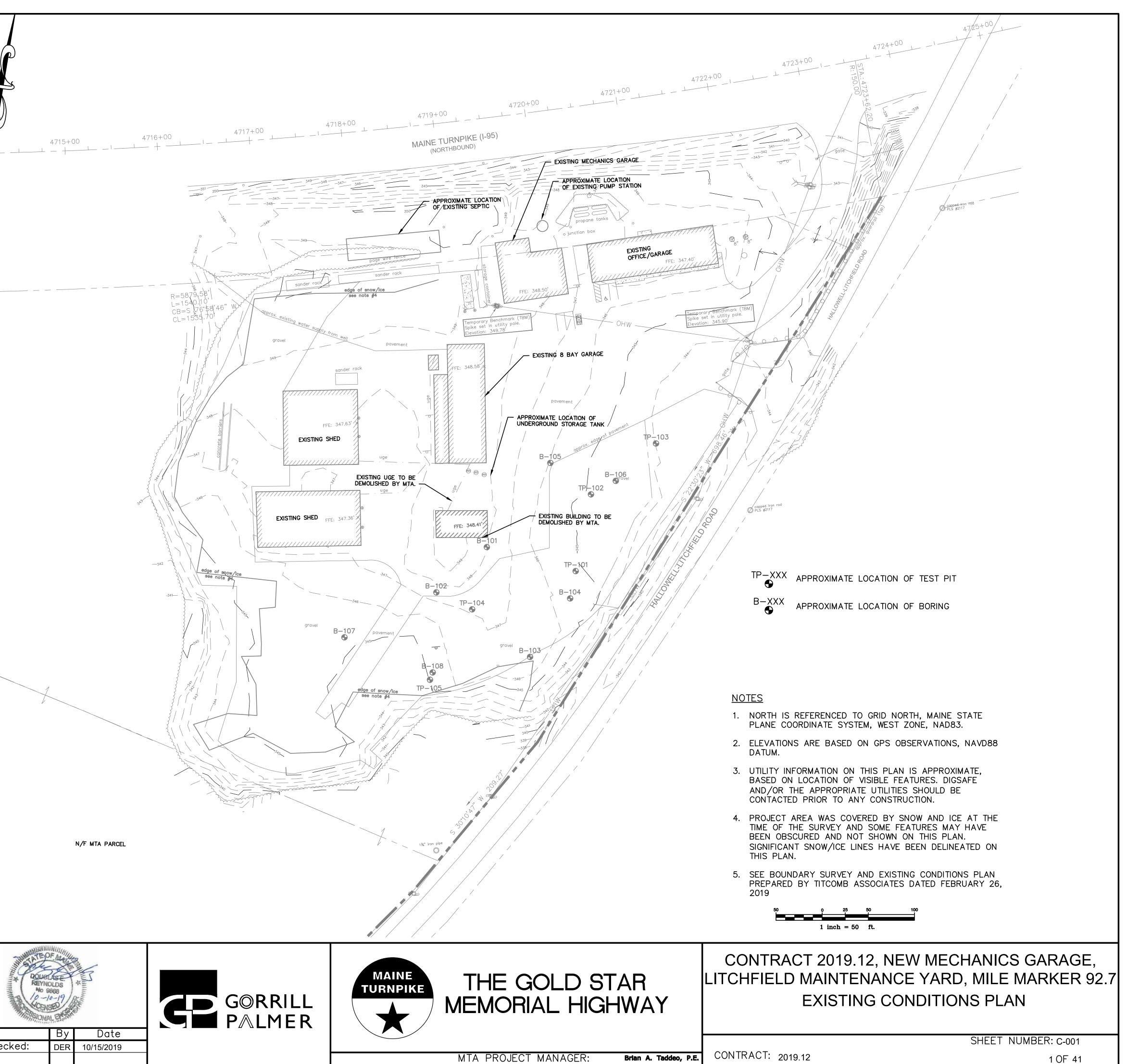


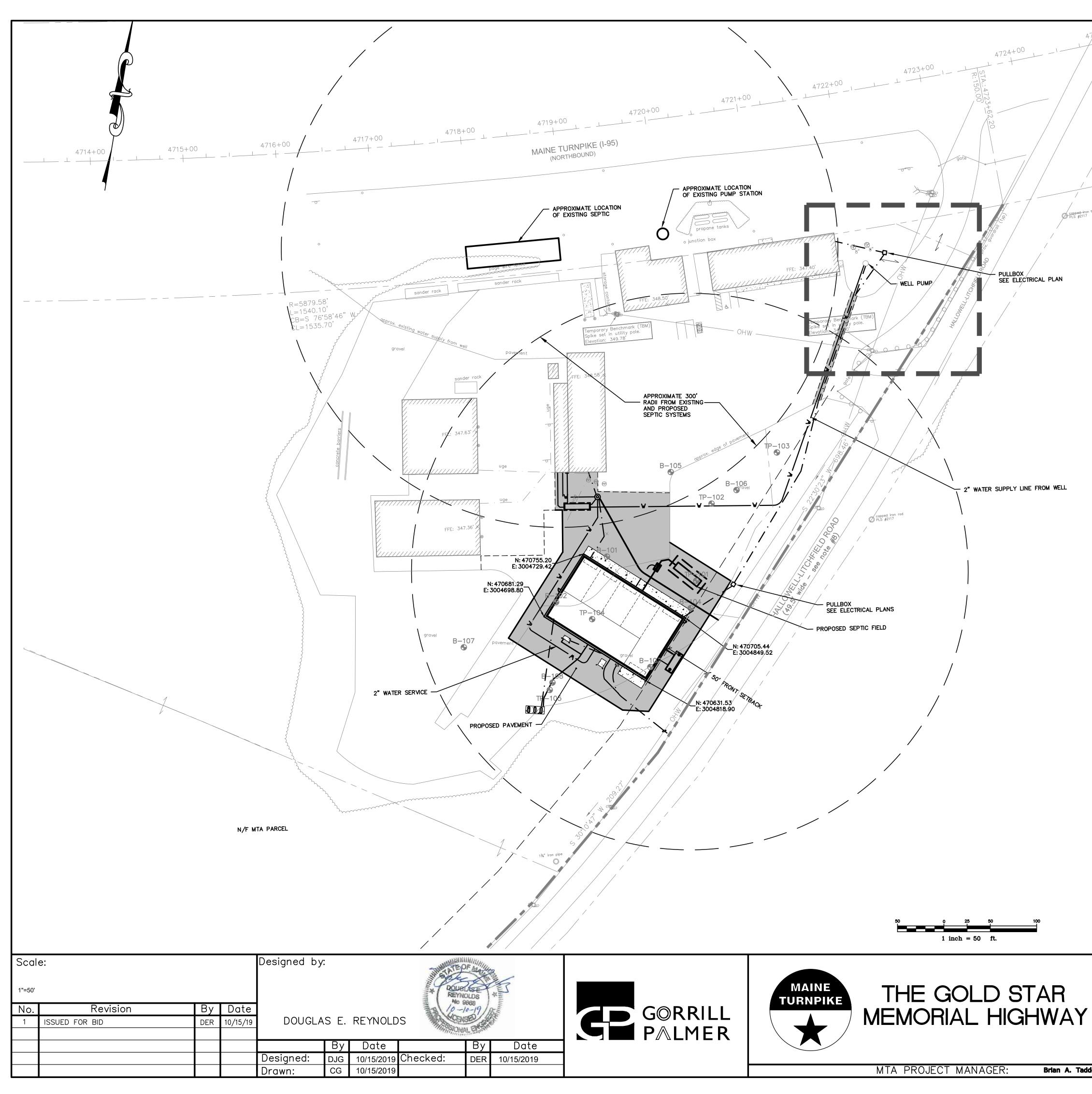
<u>SYMBOL</u>	DESCRIPTION
	EXISTING RIGHT-OF-WAY
	EXISTING SETBACK
	EXISTING EDGE OF PAVEMENT
	EXISTING TREELINE
X	EXISTING CHAINLINK FENCE
<u> </u>	EXISTING GUARDRAIL
249	EXISTING CONTOUR
	EXISTING BUILDING
	EXISTING UNDERGROUND GAS
OHW	EXISTING OVERHEAD WIRE
UC	EXISTING UNDERGROUND CAB
UW	EXISTING UNDERGROUND WAT
UE	EXISTING UNDERGROUND ELE
- 15" RCP SD	EXISTING CATCH BASIN
	EXISTING FREE STANDING SIG
₩ ^S °	EXISTING WATER SHUT OFF
¢	EXISTING LIGHT POLE
	EXISTING PROPANE TANK
	EXISTING UTILITY POLE
	EXISTING HYDRANT
	PROPOSED VERTICAL GRANIT
	PROPOSED EDGE OF BUILDIN
	PROPOSED GUARDRAIL
	PROPOSED CONCRETE
	PROPOSED EDGE OF PAVEME
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	PROPOSED SEWER
v	PROPOSED WATER
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——P——	PROPOSED PROPANE LINE
	PROPOSED SILT FENCE
GP11-201	2019 SOIL PROBE LOCATION
B11_101	2019 BORING LOCATION

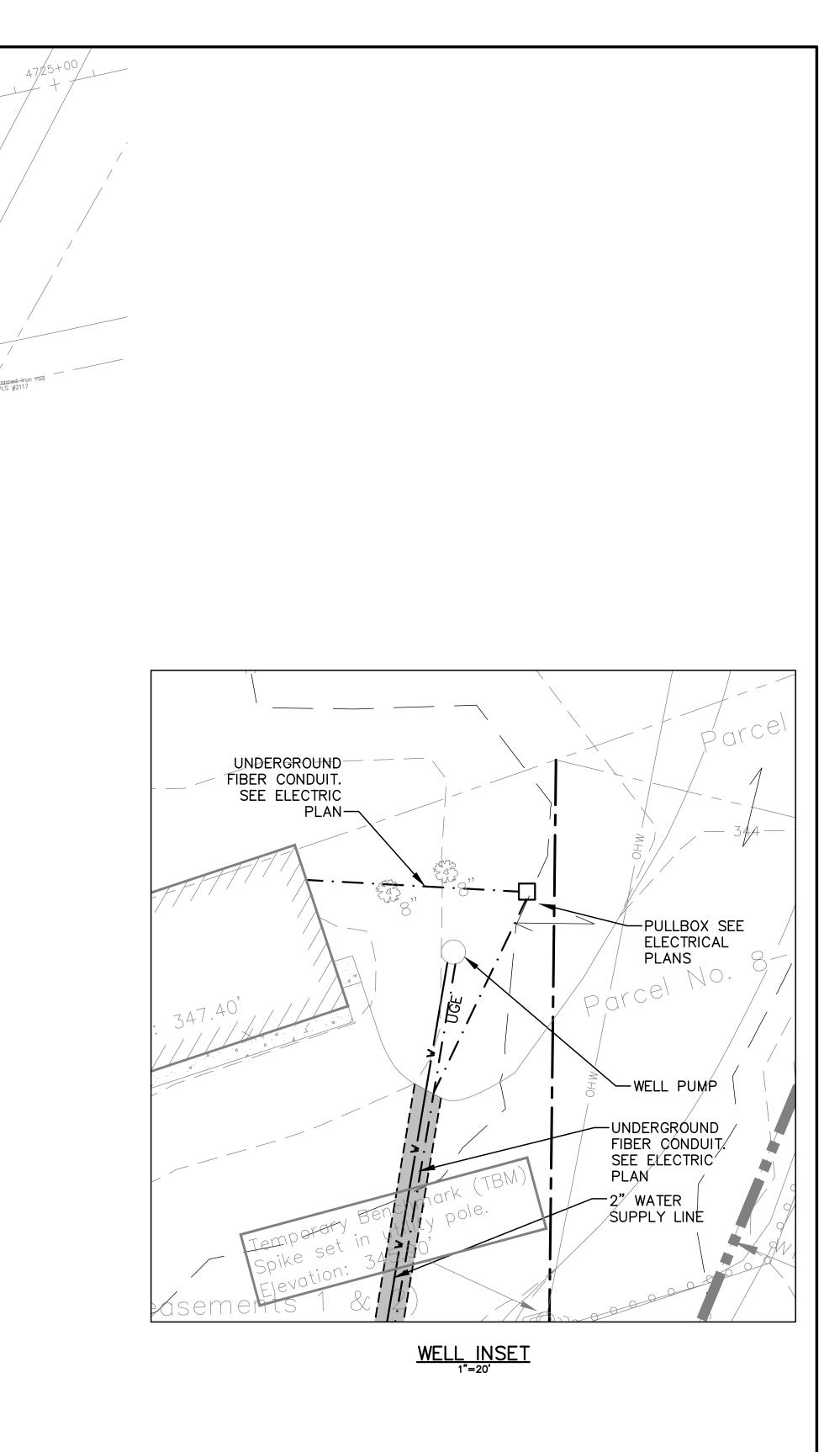
EXISTING SETBACK
EXISTING EDGE OF PAVEMENT
EXISTING TREELINE
EXISTING CHAINLINK FENCE
EXISTING GUARDRAIL
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EXISTING BUILDING
EXISTING UNDERGROUND GAS
EXISTING OVERHEAD WIRE
EXISTING UNDERGROUND CABLE
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EXISTING UNDERGROUND ELECTRIC
EXISTING UNDERGROUND STORM DRAIN
EXISTING CATCH BASIN
EXISTING FREE STANDING SIGN
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EXISTING UTILITY POLE
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PROPOSED VERTICAL GRANITE CURB
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PROPOSED CONCRETE
PROPOSED EDGE OF PAVEMENT
PROPOSED CONTOUR
PROPOSED SEWER
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PROPOSED UNDERGROUND ELECTRIC
PROPOSED PROPANE LINE
PROPOSED SILT FENCE
2019 SOIL PROBE LOCATION

4714+00

Scale 1"=50'	e:			Designed by	•		AND ATE OOLE	OF MA
No.	Revision	Ву	Date				Neva No	9868
1	ISSUED FOR BID	DER	10/15/19	DOUGLA	SE.	REYNOLD	S Sov	AL ET
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				Designed:	DJG	10/15/2019	Checked:	DE
				Drawn:	CG	10/15/2019		



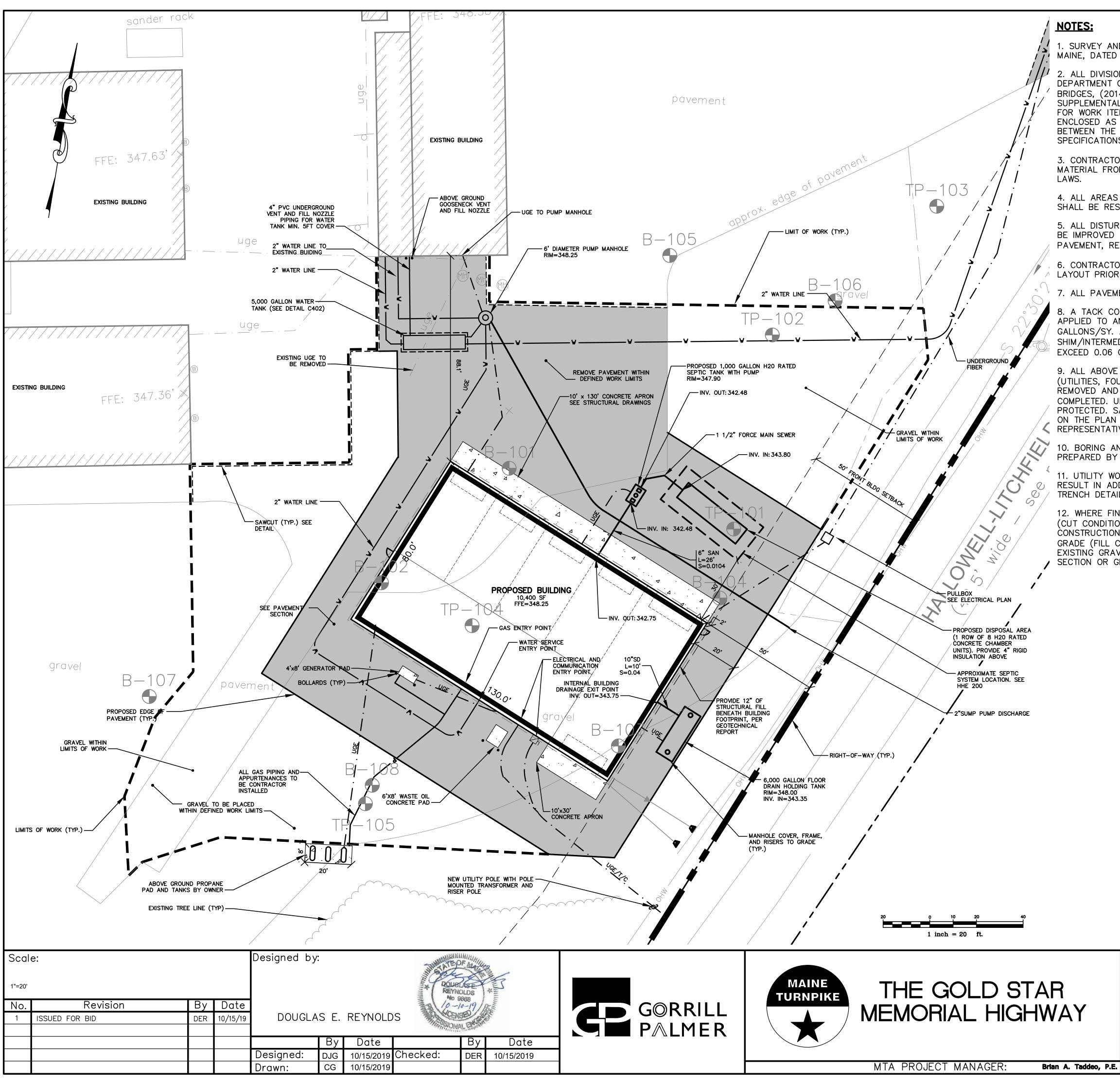




CONTRACT 2019.12, NEW MECHANICS GARAGE, LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 OVERALL SITE PLAN AND UTILITY PLAN

Brian A. Taddeo, P.E. CONTRACT: 2019.12

SHEET NUMBER: C-100



1. SURVEY AND TOPOGRAPHY PROVIDED BY TITCOMB ASSOCIATES OF FALMOUTH, MAINE, DATED MARCH 1, 2019.

2. ALL DIVISION 2 SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, (2014 EDITION) AND AS MODIFIED BY MAINE TURNPIKE 2016 SUPPLEMENTAL SPECIFICATIONS. SPECIAL PROVISIONS HAVE BEEN PREPARED FOR WORK ITEMS NOT ADDRESSED IN THE STANDARD SPECIFICATIONS, AND ARE ENCLOSED AS PART OF THIS CONTRACT. IN THE EVENT OF A CONFLICT BETWEEN THE STANDARD SPECIFICATIONS AND THE SUPPLEMENTAL SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL APPLY.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SPOIL/EXCESS MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL

4. ALL AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO PRIOR CONDITIONS AT NO EXPENSE TO THE OWNER.

5. ALL DISTURBED AREAS INSIDE THE LIMIT OF WORK LINE NOT PROPOSED TO BE IMPROVED SHALL BE RESTORED TO THEIR PRIOR CONDITION, EITHER PAVEMENT, RECYCLED ASPHALT PAVEMENT, OR 4" LOAM AND SEED.

6. CONTRACTOR SHALL COORDINATE WITH SURVEYOR FOR BUILDING/COORDINATE LAYOUT PRIOR TO CONSTRUCTION.

7. ALL PAVEMENT SHALL BE SAWCUT PRIOR TO REMOVAL.

8. A TACK COAT OF EMULSIFIED ASPHALT, RS-1 OR HFMS-1 SHALL BE APPLIED TO ANY EXISTING PAVEMENT AT A RATE OF APPROXIMATELY 0.06 GALLONS/SY. A FOG COAT OF EMULSIFIED ASPHALT SHALL BE BETWEEN SHIM/INTERMEDIATE COURSE AND THE SURFACE COURSE AT A RATE NOT TO EXCEED 0.06 GALLONS/SY.

9. ALL ABOVE GROUND FEATURES AND BELOW GROUND OBSTRUCTIONS, (UTILITIES, FOUNDATIONS, ETC.) ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED AND DISPOSED OF AS NECESSARY TO ENABLE WORK TO BE COMPLETED. UNDERGROUND UTILITIES LABELED "TO REMAIN" SHALL BE PROTECTED. SAVING OR REMOVAL OF UNDERGROUND OBSTRUCTIONS NOT SHOWN ON THE PLAN SHALL BE COORDINATED WITH THE PROJECT OWNER OR THEIR REPRESENTATIVE.

10. BORING AND SOIL PROBE LOCATIONS TAKEN FROM GEOTECHNICAL REPORT PREPARED BY S.W. COLE DATED FEBRUARY 2019.

11. UTILITY WORK OUTSIDE PAVEMENT DISTURBANCE LIMIT SHOWN ON PLAN WILL RESULT IN ADDITIONAL PAVEMENT RECONSTRUCTION IN ACCORDANCE WITH THE TRENCH DETAIL SHOWN ON SHEET C401.

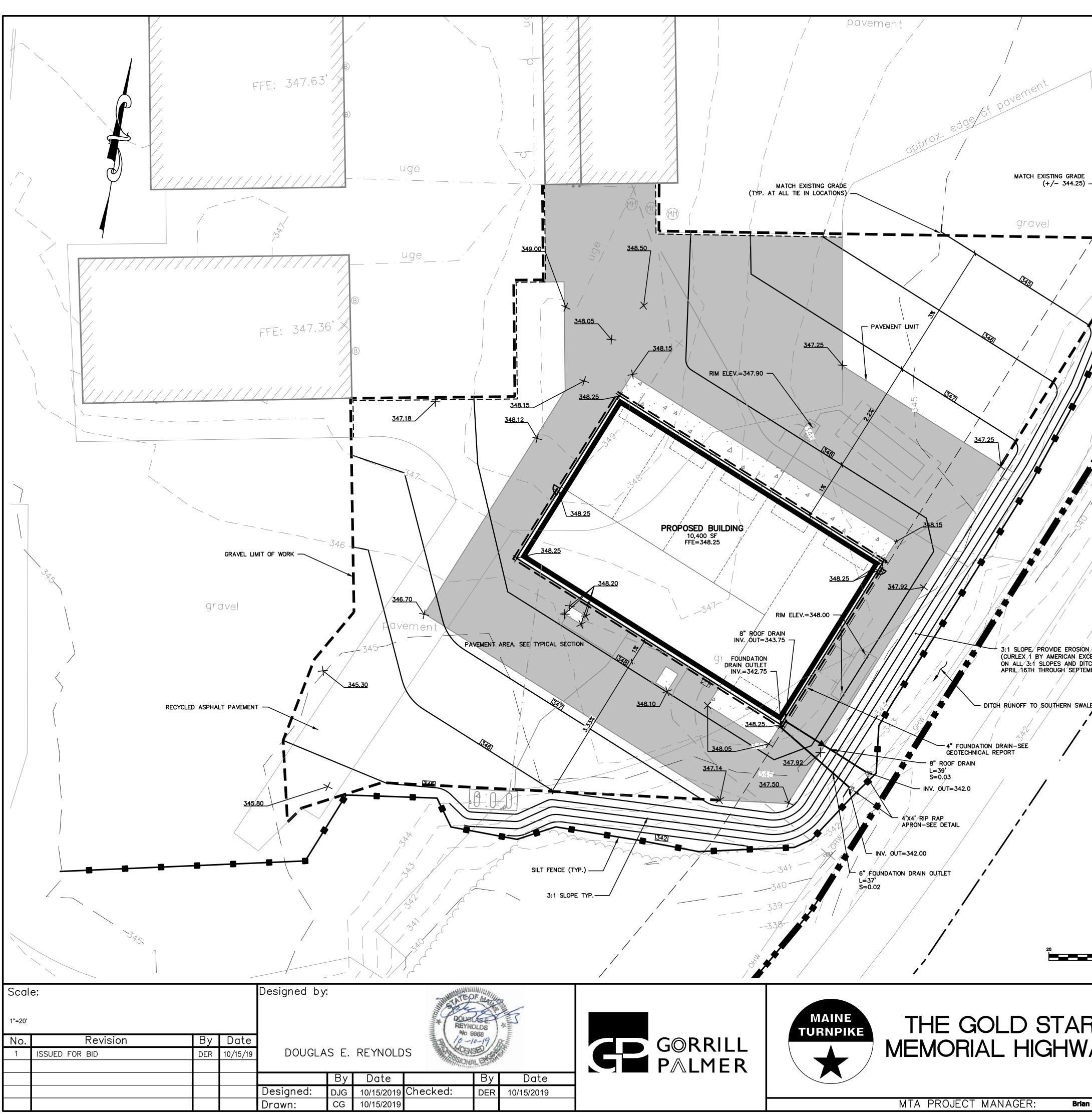
12. WHERE FINISH PAVEMENT OR GRAVEL GRADE IS BELOW EXISTING GRADE (CUT CONDITION), CONTRACTOR TO PROVIDE FULL DEPTH GRAVEL CONSTRUCTION. WHERE FINISH PAVEMENT OR GRAVEL GRADE IS ABOVE EXISTING GRADE (FILL CONDITION), CONTRACTOR TO REMOVE PAVEMENT, COMPACT EXISTING GRAVEL BASE, AND PROVIDE GRAVEL TO BOTTOM OF PAVEMENT ✓ SECTION OR GRAVEL SURFACE.

PAVEMENT LEGEND					
STANDARD DUTY BITUMINOUS CONCRETE					
REINFORCED CEMENT CONCRETE					
GRAVEL WITHIN LIMITS OF WORK					

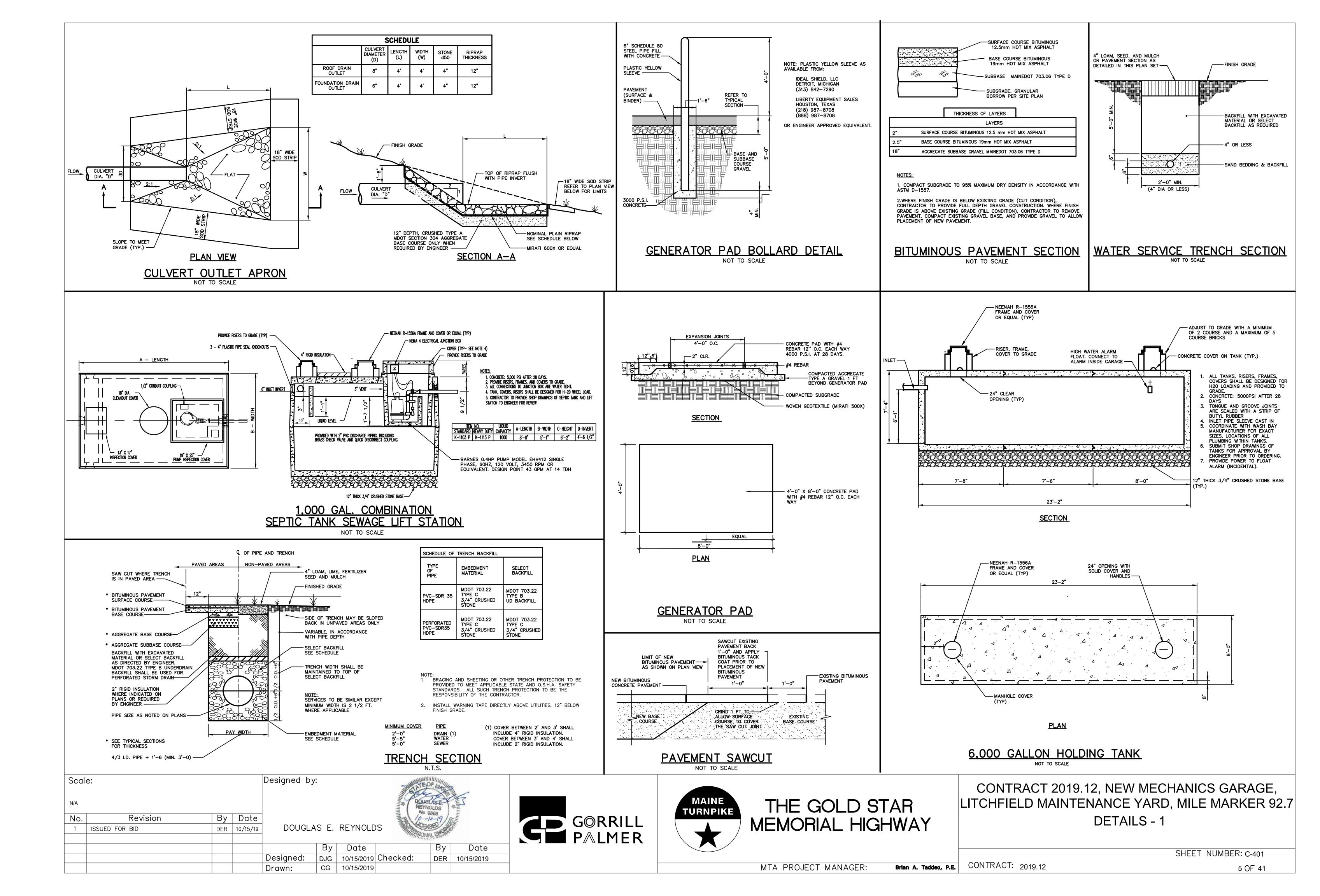
CONTRACT 2019.12, NEW MECHANICS GARAGE, LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 SITE AND UTILITY PLAN

CONTRACT: 2019.12

SHEET NUMBER: C-101



0 10 20 1 inch = 20 ft.	40	
R AY		MILE MARKER 92.7 GE,
n A. Taddeo, P.E.	CONTRACT: 2019.12	4 OF 41



<u>GENERAL</u>

ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES 2014 WITH UPDATES AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS OR PROJECT SPECIFICATIONS.

2. ALL EXISTING ROADWAYS USED IN ACCESSING THE SITE SHALL REMAIN CLEAN.

3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK. 4. CONTRACTOR IS REQUIRED TO MAINTAIN SAFE ACCESS TO PARKING AREAS FOR MTA

EMPLOYEES AT ALL TIMES DURING CONSTRUCTION. 5. A COPY OF THE "GEOTECHNICAL REPORT" IS INCLUDED WITH THE CONTRACT DOCUMENTS.

6. DUST CONTROL IS INCIDENTAL TO CONTRACT.

WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404. DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES. 8. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE USE OF THE BIDDERS AND THE CONTRACTOR. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS OF THE CONSTRUCTION SITE. THE MTA WILL NOT BE RESPONSIBLE FOR THE BIDDERS' OR CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION. 9. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT AS BUILT PLANS.

EARTHWORK

1. 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)

2. THE NORMAL GRUBBING WIDTH IN THE FILLS SHALL BE VARIABLE WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6" IN FIELD AREAS AND 12" IN WOODED AREAS.

<u>UTILITY</u>

EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY 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. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 PRIOR TO THE START OF THE WORK.

2. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:

- MAINE TURNPIKE AUTHORITY
- CENTRAL MAINE POWER
- FAIRPOINT/CONSOLIDATED COMMUNICATIONS SPECTRUM/CHARTER COMMUNICATIONS

3. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS' UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS. THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

EROSION CONTROL

1. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSED 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. 2. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.

NEWLY DISTURBED EARTH SHALL BE MULCHED PRIOR TO A RAIN EVENT. THIS WORK SHALL BE PAID FOR UNDER ITEM 619.1202 TEMPORARY MULCH.

4. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS. TEMPORARY SEED SHALL BE INCIDENTAL TO THE 618 ITEMS. 6. TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND 2:1 SLOPES FROM 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 8' WIDE OR AS DESIGNATED BY THE RESIDENT

<u>PAVING</u>

WHERE PROPOSED PAVEMENT JOINS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAW CUT ALONG AS SMOOTH LINE TO A NET, EVEN AND VERTICAL JOINT, AS DIRECTED BY THE RESIDENT. SAWCUTTING SHALL BE PAID FOR UNDER ITEM 419.05.

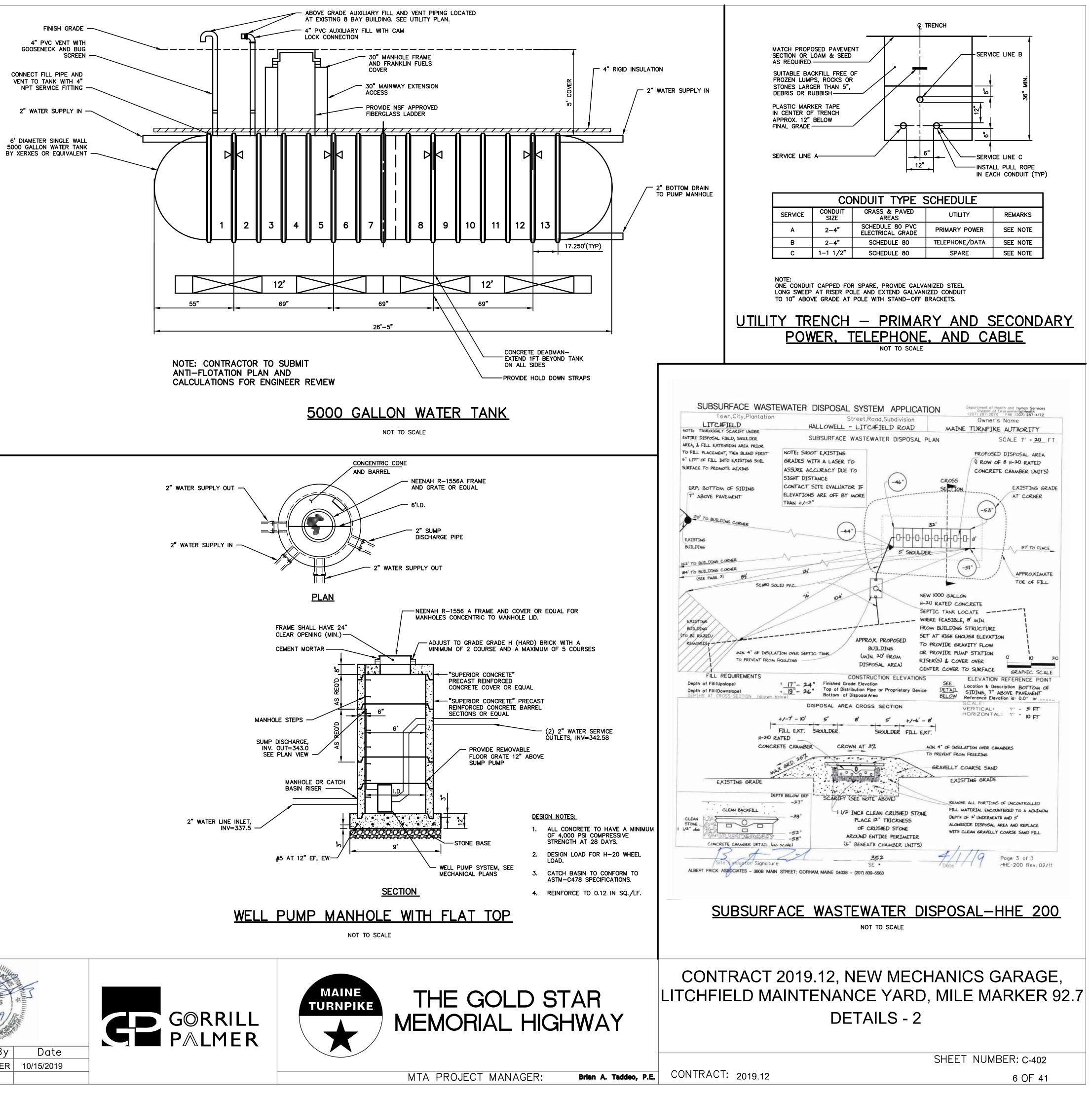
2. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE CONSIDERED INCIDENTAL TO THE RELATED PAVING ITEMS. 4. A BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL PAVEMENT LIFTS.

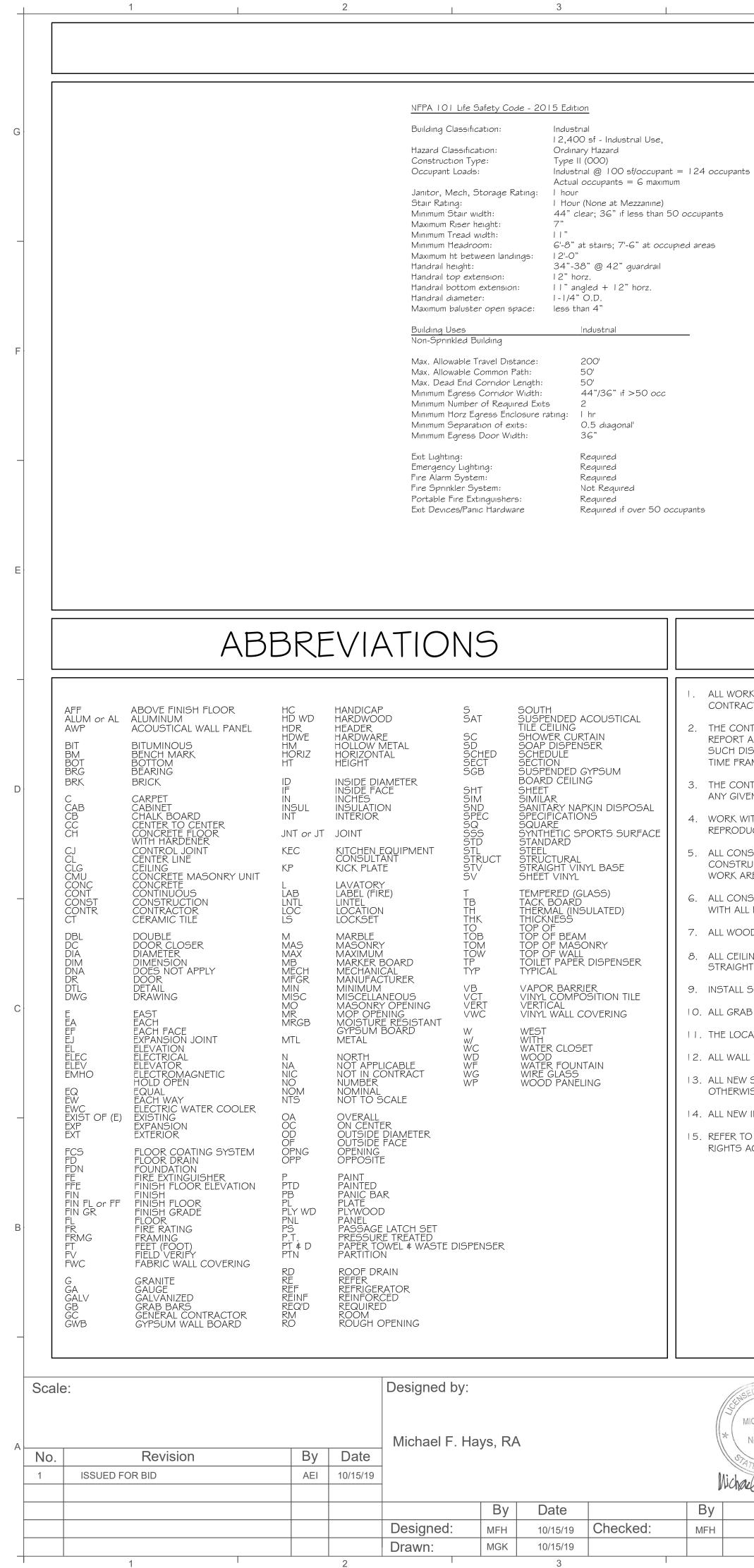
5. PLACEMENT OF THE FINAL LIFTS OF PAVEMENT SHALL BE DONE IN A MANNER TO LIMIT PAVEMENT JOINTS. CONTRACTOR SHALL COORDINATE WITH RESIDENT.

DRAINAGE

NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT. 3. ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE. 4. ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS AND MANHOLES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED CATCH BASIN AND MANHOLE ITEMS 5. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO TAKE A PROPOSED PIPE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED CULVERT ITEMS. 6. ONE GREEN DELINEATOR POST SHALL BE INSTALLED AT ALL UNDERDRAIN AND STORM DRAIN OUTLETS.

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No.	Revision	By	Date					9868
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					By	Date		E
				Designed:	DJG	10/15/2019	Checked:	D
				Drawn:	CG	10/15/2019		





CODE ANALYSIS

None

7'-6"

Required

2015 International Building Code (x)" denotes if building is fully sprinkled

Use Group Classification: Construction: Occupant Loads: Janitor, Mech & Storage Rooms Rating: I hour

Building Limitations Construction Type: Maximum Height: Maximum Area / Floor: Actual Area/Height:

Fire Resistance Ratings Load Bearing Exterior Walls: Fire Separation Exits (Stairs): Exit Corridors: Minimum Number of Exits: Maximum Dead-End Corridor Length: Maximum Common Travel Path: Maximum Travel Distance: Minimum Corridor Width: Minimum Stair Width: Maximum Riser Height: Minimum Tread Depth: Minimum Ramp Width: Maximum Ramp Pitch: Handraıls: Minimum Ceiling Height:

Fire Alarm System: Fire Sprinkler System:

Portable Fire Extinguishers: Exit Lighting Emergency Lighting

Building Live Loads Office: Lobbies: Corridors: Storage:

Factory - Use Group FI Type II - Non-Combustible, Unprotected FI @ 100 sf/occupant = 124 occupants (6 actual max)

Non-Sprinkled IIB Unprotected 2 stories / 55' 15,500 sf 12,400 sf / single story / 26' high

I hour (None at Mezzanine)

l hour 20 75 200' 44" except 36" if less than 50 occupants 44" except 36" if less than 50 occupants | | " 44" 1:12 Same as NFPA 101

Not Required Not Required (12,400 sf fire area / less than 24,000 sf including Mezzanine) Required Required

50 psf 100 psf 80 psf 125 psf @ light; 250 psf @ heavy

GENERAL NOTES

ALL WORK SHALL CONFORM TO PREVAILING EDITIONS OF ADOPTED BUILDING CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN STATE PLUMBING AND ELECTRICAL PERMITS FOR WORK.

THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. CONTRACTOR SHALL PROCEED WITH THE WORK ONLY AFTER SUCH DISCREPANCIES HAVE BEEN RESOLVED BY THE ARCHITECT. CONTRACTOR SHALL ALLOW A 48 HOUR TIME FRAME FOR RESOLVING DISCREPANCIES ONCE THE ARCHITECT HAS ACKNOWLEDGED THE CONDITION.

3. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING THE WORK IN ANY GIVEN AREA.

WORK WITH GIVEN DIMENSIONS AND LARGE SCALE DETAILS. DO NOT SCALE THE DRAWINGS AS THE REPRODUCTIVE PROCESS TENDS TO DISTORT THE ACCURACY OF THE GRAPHIC SCALE INDICATED.

ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN A NEAT, SAFE, AND CLEAN MANNER. ALL CONSTRUCTION WASTE SHALL BE REMOVED FROM THE BUILDING. SITE BURNING IS NOT ALLOWED. LEAVE WORK AREA IN A CLEAN, SAFE CONDITION AT THE END OF EACH WORK DAY.

6. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF AT AN APPROVED OFF-SITE FACILITY IN COMPLIANCE WITH ALL REGULATIONS.

7. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESERVATIVE TREATED.

8. ALL CEILINGS SHALL BE LEVEL TO A TOLERANCE OF $\frac{1}{6}$ " IN A 20'-0" RADIUS WHEN CHECKED WITH A 10'-0" STRAIGHT EDGE.

9. INSTALL SOLID BLOCKING AT WALL FRAMING BEHIND ALL SURFACE MOUNTED FIXTURES, TRIM AND HANDRAILS.

IO. ALL GRAB BARS AND HANDRAILS SHALL BE ABLE TO SUPPORT A DEAD WEIGHT OF 250 LBS. AT ANY POINT.

II. THE LOCATION OF ANY DOOR JAMBS NOT DIMENSIONED SHALL BE 6" FROM ADJACENT PERPENDICULAR WALL. 12. ALL WALL PARTITIONS SHALL EXTEND FLOOR TO STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.

13. ALL NEW SHEETROCK IN WET AREAS (PLUMBING FIXTURES) SHALL BE MOISTURE-RESISTANT TYPE, UNLESS OTHERWISE NOTED.

14. ALL NEW INTERIOR WALLS SHALL HAVE FULL-THICK ACOUSTICAL BATT INSULATION.

15. REFER TO THE ACCESSIBILITY DETAIL SHEET FOR AMERICANS WITH DISABILITIES ACT (ADA) AND MAINE HUMAN RIGHTS ACT (MHRA) CONSTRUCTION CRITERIA.

Image: Source of the source	MATERIALS	SYMBOLS	NFPA LEGEND
THE GOLD STAR LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7	CONCRETE MASONRY UNIT BRICK GRAVEL SOIL STUD PARTITION (EXISTING) VOOD FRAMING VOOD BLOCKING VOOD BLOCKING SUSPENDED ACOUSTICAL TILE SUSPENDED ACOUST	Image: Description Window number Image: Description Wall Section Image: Description Description Image: Description Description Image: Description Casework Elevation Image: Description Image: Description Image: Description Image	Image: Second state EXIT LIGHT Image: ABC FIRE EXTINGUISHER w/ BRACKET Image: ABC FIRE ALARM PULL STATION Image: ABC FIRE ALARM PANEL Image: ABC FIRE ALARM PA
		LITCHFIELD MAINTEN	ANCE YARD, MILE MARKER 92.7

MICHAEL F. HAYS No. 1724 Michael F. Haus Date 10/15/19

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Brian A. Taddeo, P.E.

Maine State Plumbing Code/UPC Occupancy Classification: Factory 6 at Factory (IBC exemption) Actual Occupants:

> ZONE Roof Exter Mass (abov Slab Fros

Door Door Windo Store

Factory: 6	Occupants - 3	male / 3 femal	e	
FIXTURES	TOILETS	URINALS	LAVS	EYE WASH
Unisex	I	I	I	I
Drinking Fountain: (or Water Station		upants - I re	quired	

MUBEC (Maine Uniform Building Energy Code) MINIMUM INSULATION VALUES Per 2009 IECC; Table 502.1.2, 502.2(1) and 502.3

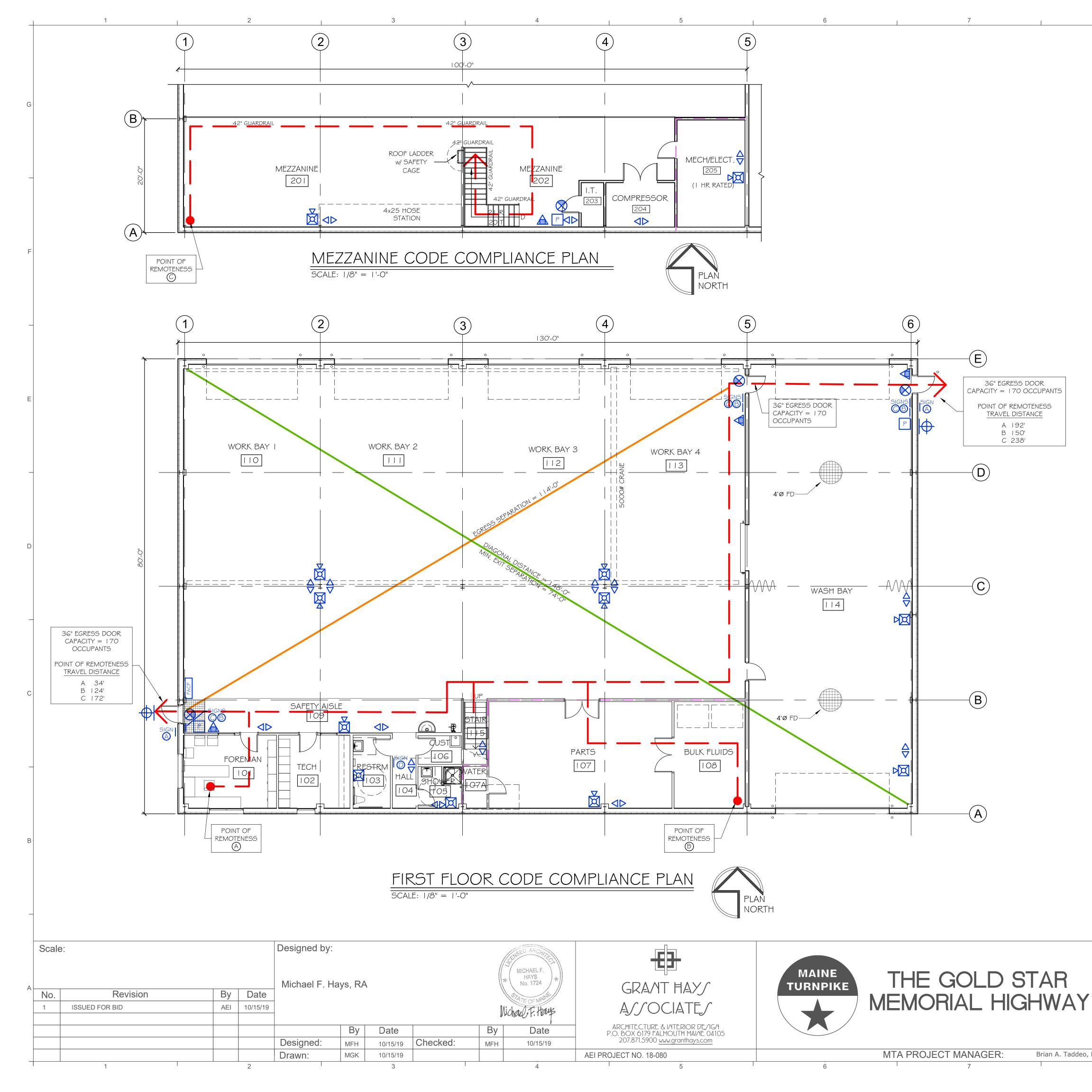
IE GA	R-VALUE	U-FACTOR	SHGC	
f (above deck)	20.0 ci	0.048	NA	
rior Wall	13+5.6 ci	0.054	NA	
s Wall	13.3 сі	0.077	NA	
ve Grade)				
(24" band)	15.0	0.052	NA	
it Wall	7.5 cı	0.133	NA	
rs - Swinging	1.42	0.70	NA	
rs - Overhead	2.00	0.50	NA	
lows	2.9	0.35	NR	
refront	2.2	0.45	NR	

End of Analysis

CONTRACT: 2019.12

8

SHEET NUMBER: A-0 7 _{OF} 41



), P.E.	CONTRACT:	2019.12

8 _{OF} 41

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CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 CODE COMPLIANCE PLANS

HAVING JURISDICTION.

									
	NFPA LEGEND								
SYMBOL	DESCRIPTION								
\bigotimes	EXIT LIGHT								
	ABC FIRE EXTINGUISHER w/ BRACKET								
$\triangleleft \triangleright$	EMERGENCY LIGHT								
5	SMOKE DETECTOR								
$\triangleleft \bigotimes \triangleright$	EMERGENCY / EXIT LIGHT								
	HORN / STROBE UNIT								
X	STROBE UNIT								
Р	FIRE ALARM PULL STATION								
FACP	FIRE ALARM PANEL								
К	KNOX BOX								
\bigcirc	"NOT AN EXIT" SIGN								
Φ	EXTERIOR EMERGENCY LIGHT								

OCCUPANT LOADS								
IBC 2015	I 24 (6 MAX. ACTUAL)							
NFPA 2015	124 (6 MAX. ACTUAL)							
NFPA 2015	124 (6 MAX. ACTUA							

ACCESSIBILITY NOTES

LIFE SAFETY NOTES

COMPLIANCE WITH NFPA 101 SAFETY CODE. VERIFY LOCATION OF ALARM AND NOTIFICATION PANELS WITH THE AUTHORITY

INSTALL A NEW FIRE ALARM SYSTEM AS REQUIRED FOR

2. SEE SHEET A-14 ACCESSIBILITY DETAILS AND NOTES FOR MOUNTING HEIGHTS OF LIFE SAFETY DEVICES.

I. SEE SHEET A-14 FOR ACCESSIBILITY DETAILS & NOTES.

2. SEE SHEET A-14 FOR ADA SIGNAGE.

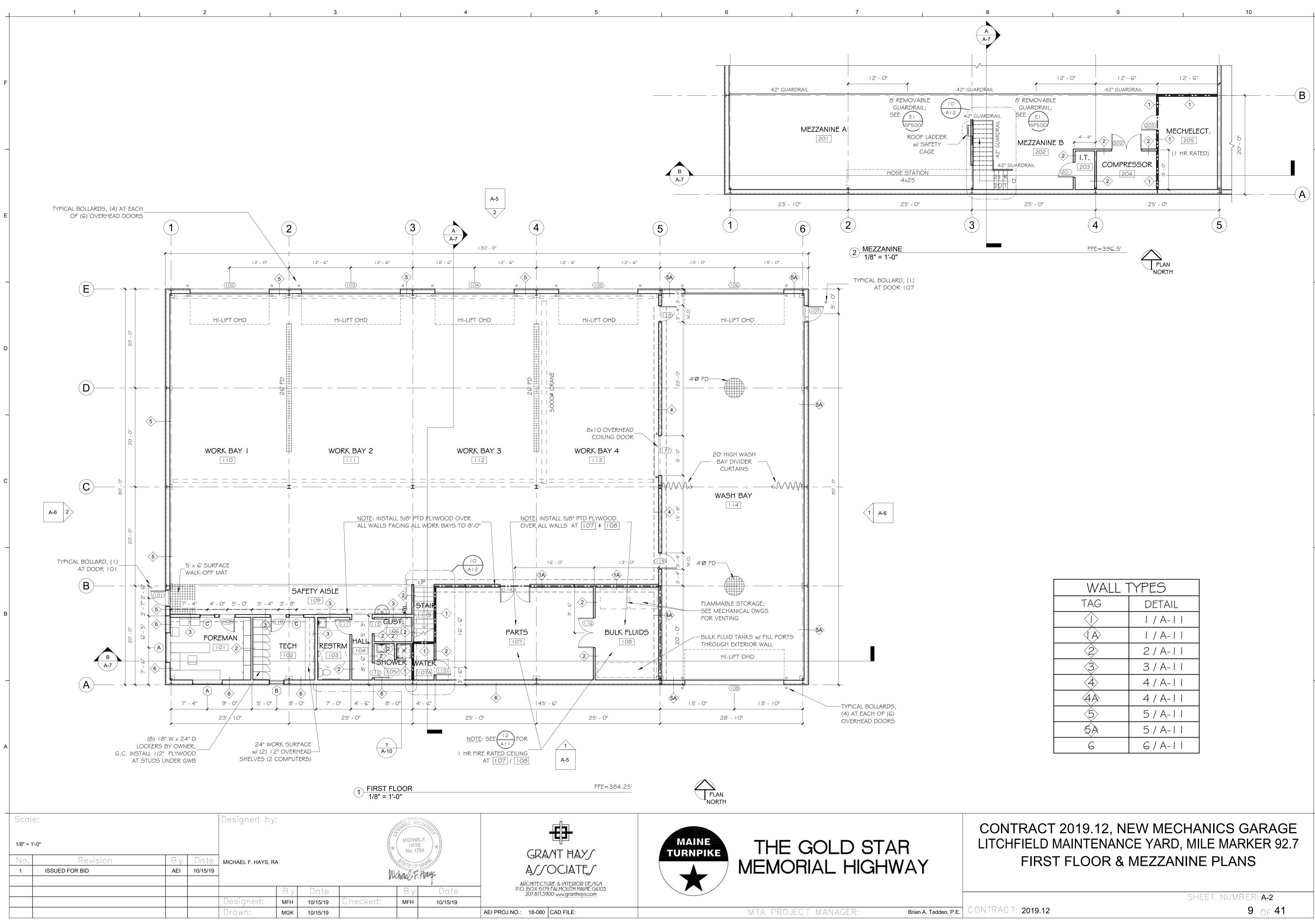
OCCUPANT LOADS									
IBC 2015	I 24 (6 MAX. ACTUAL)								
NFPA 2015	124 (6 MAX. ACTUAL)								

OCCUPANT LOADS									
IBC 2015	124 (G MAX. ACTUAL)								
NFPA 2015	124 (G MAX. ACTUAL)								

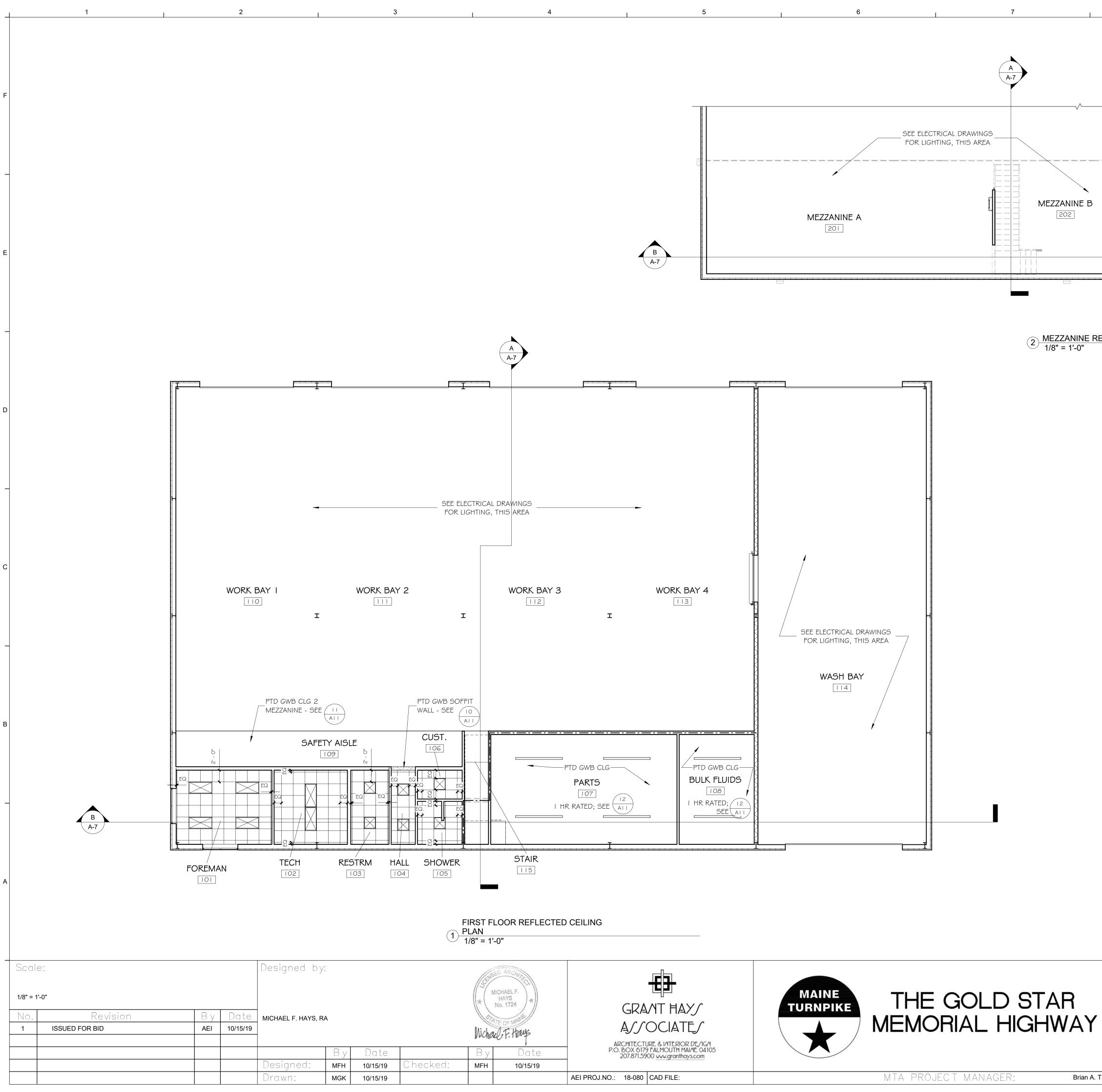


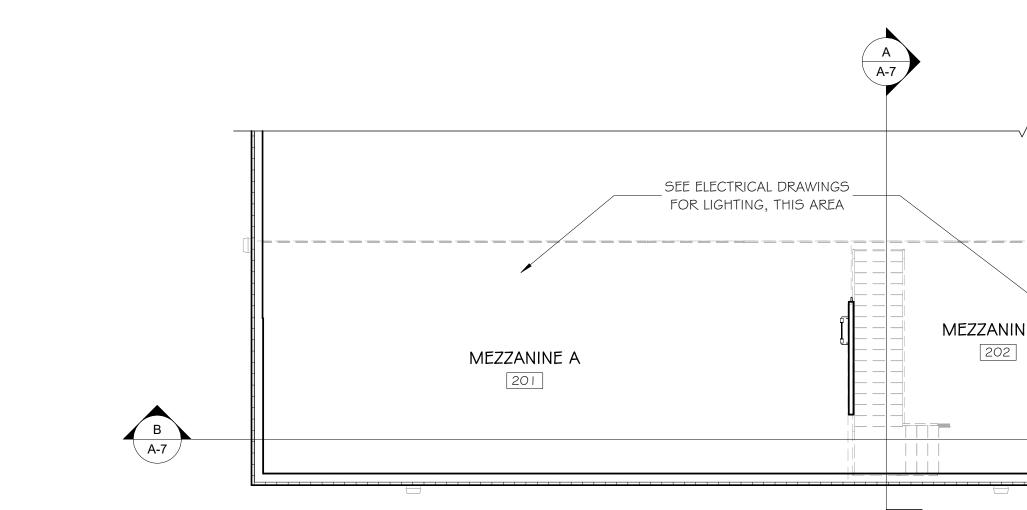
- · --- · ---- I HR RATED

EGRESS S	YMBOLS LEGEND
	DIAGONAL DISTANCE



WALL -	FYPES
TAG	DETAIL
	/ A-
	/ A-
2	2 / A-1 I
3	3/A-11
4	4 / A- I I
(4A)	4 / A- I I
5	5/A-11
5A	5/A-II
6	6/A-11







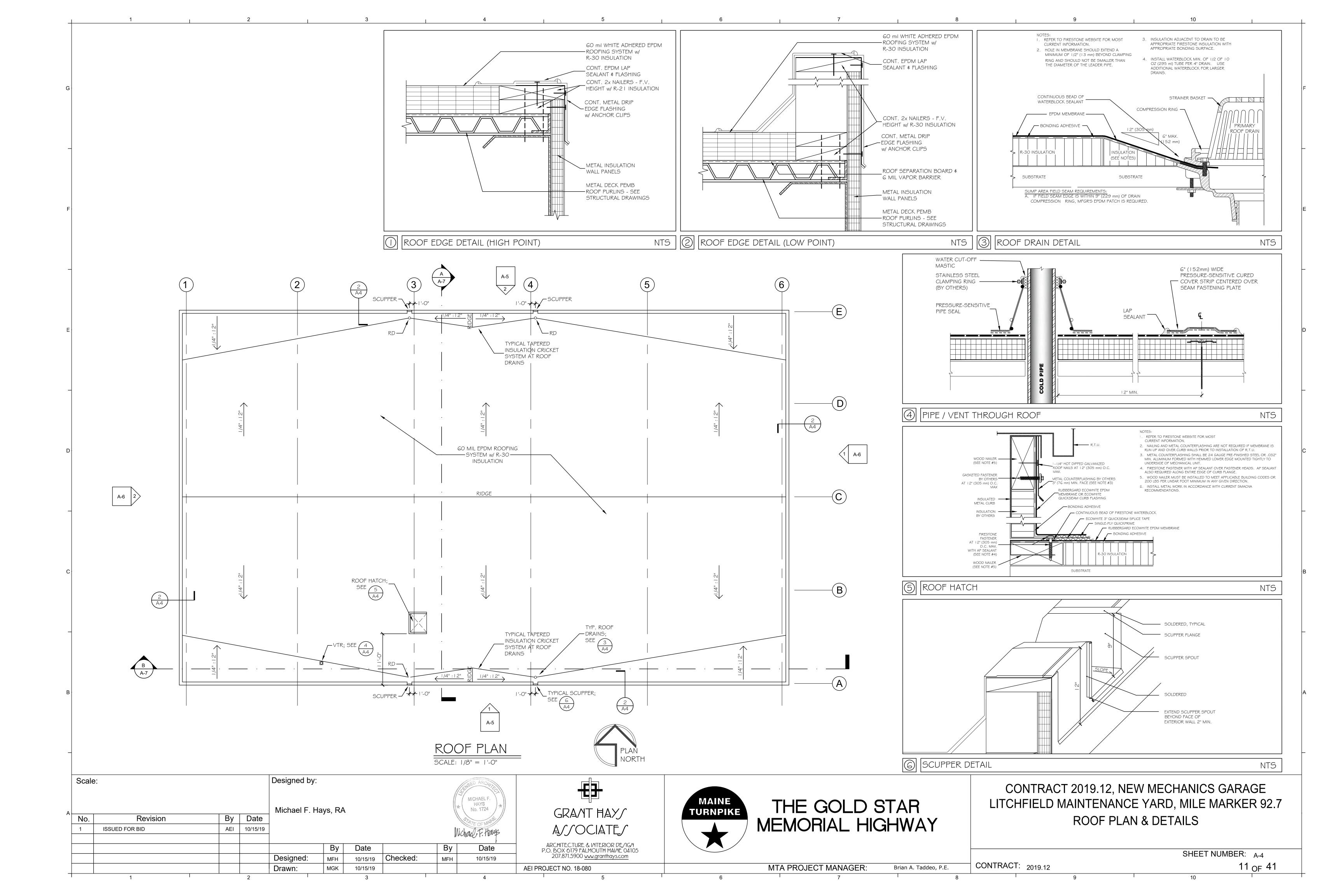
NINE B	I.T. COMPRESSOR 203 204	MECH/ELECT. 205 (I HR RATED)	

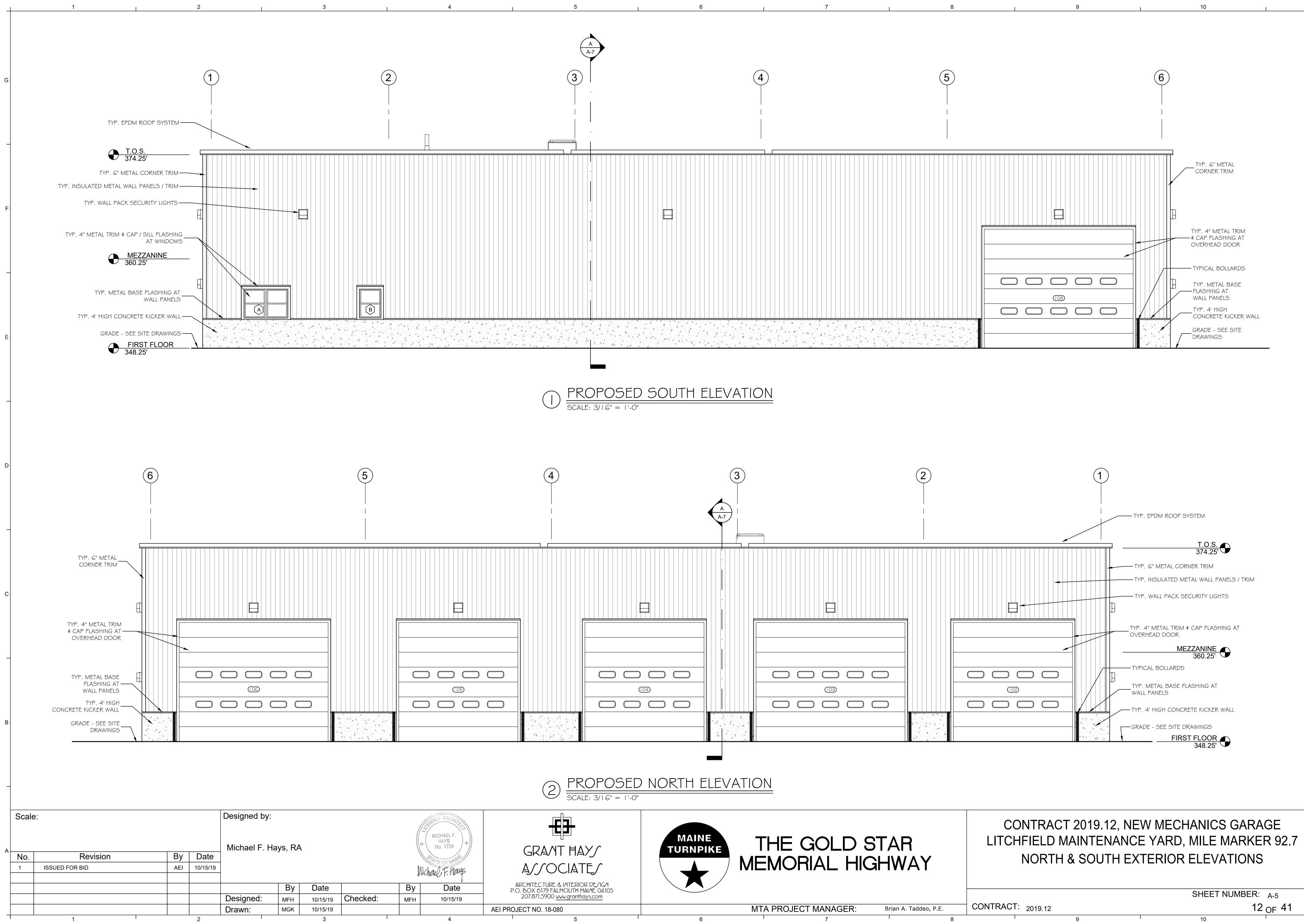
2 MEZZANINE REFLECTED CEILING PLAN 1/8" = 1'-0"

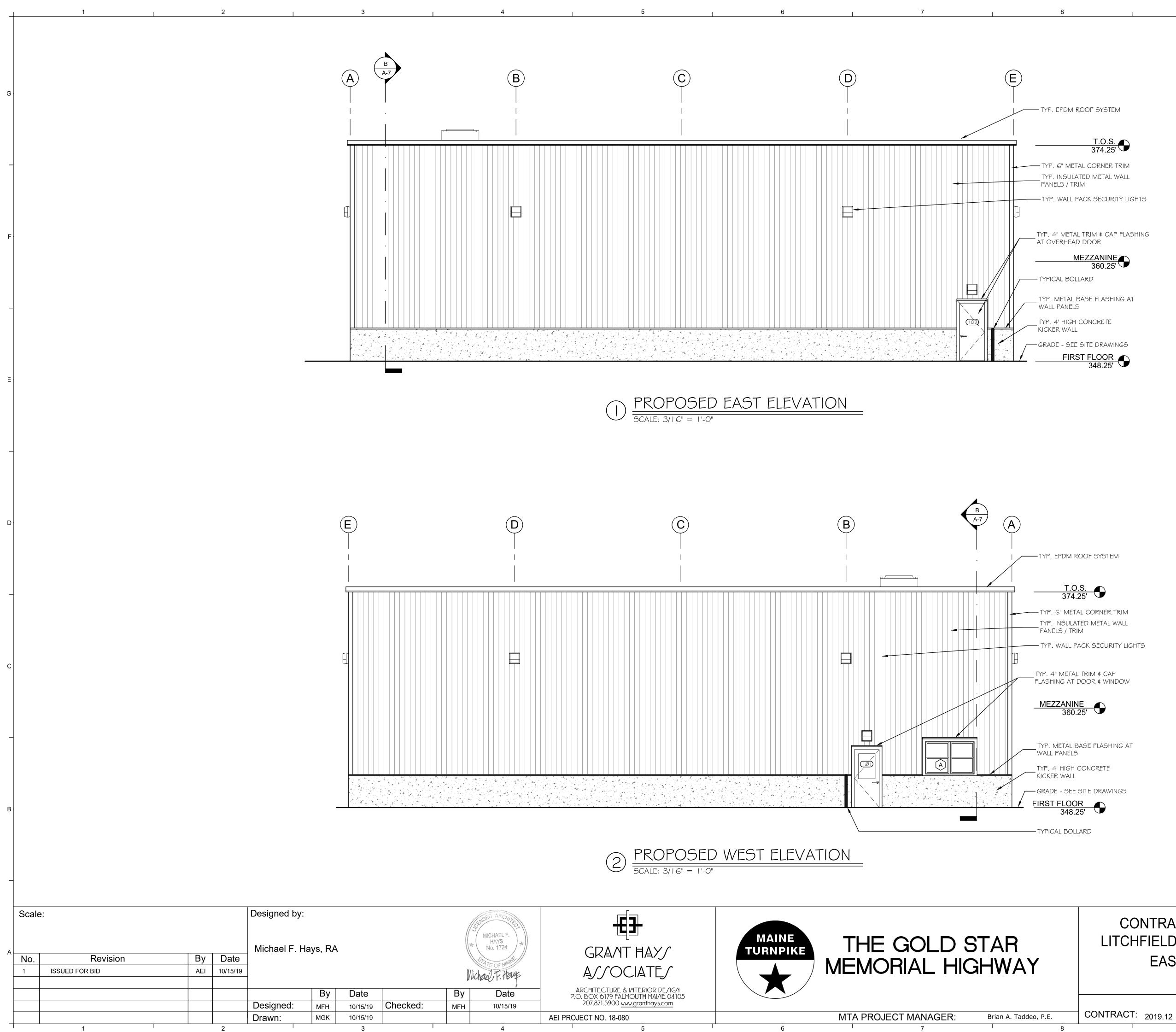


CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 REFLECTED CEILING PLANS

SHEET NUMBER: A-3







- TYP. WALL PACK SECURITY LIGHTS

TYP. 4" METAL TRIM & CAP FLASHING

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 EAST & WEST EXTERIOR ELEVATIONS

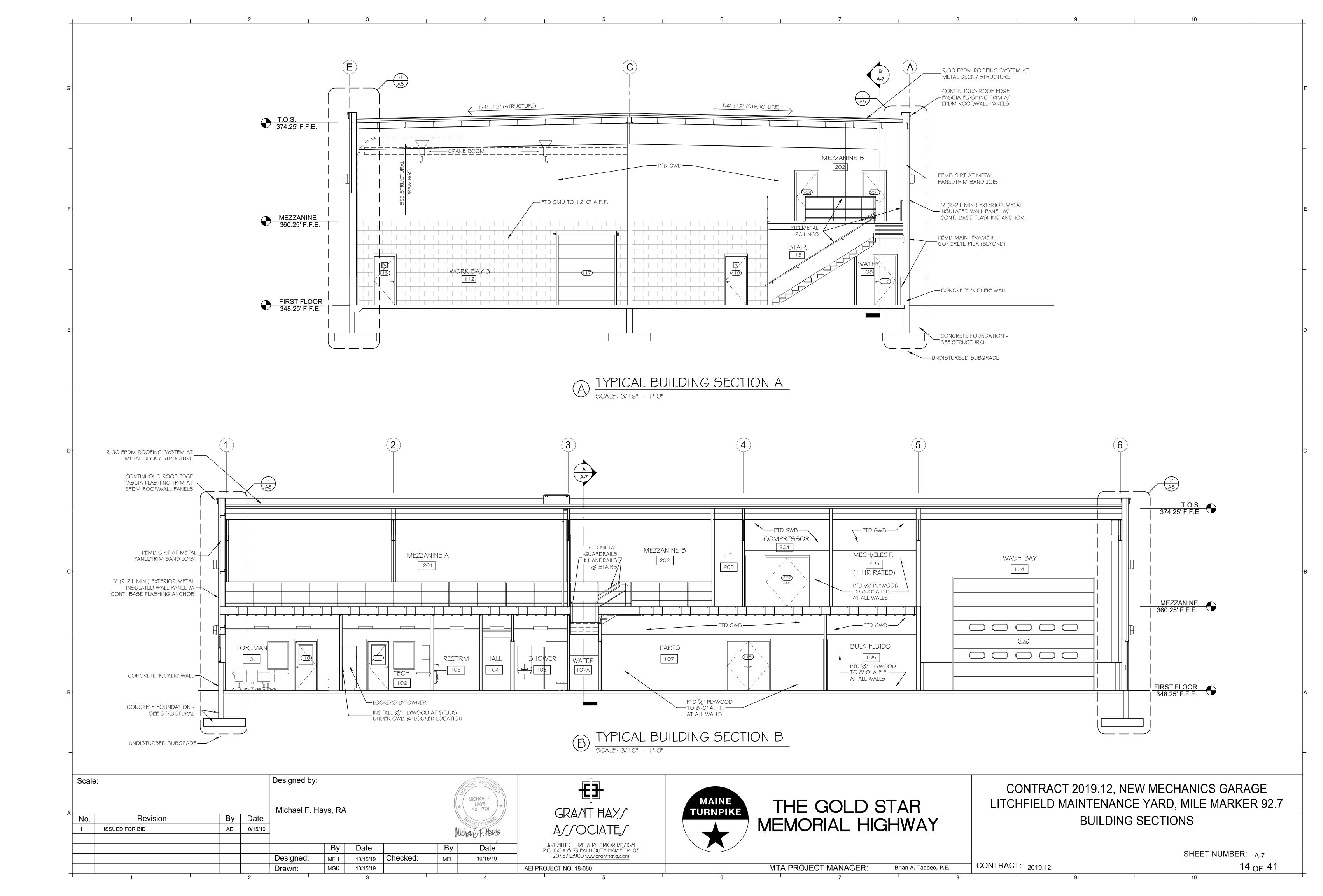
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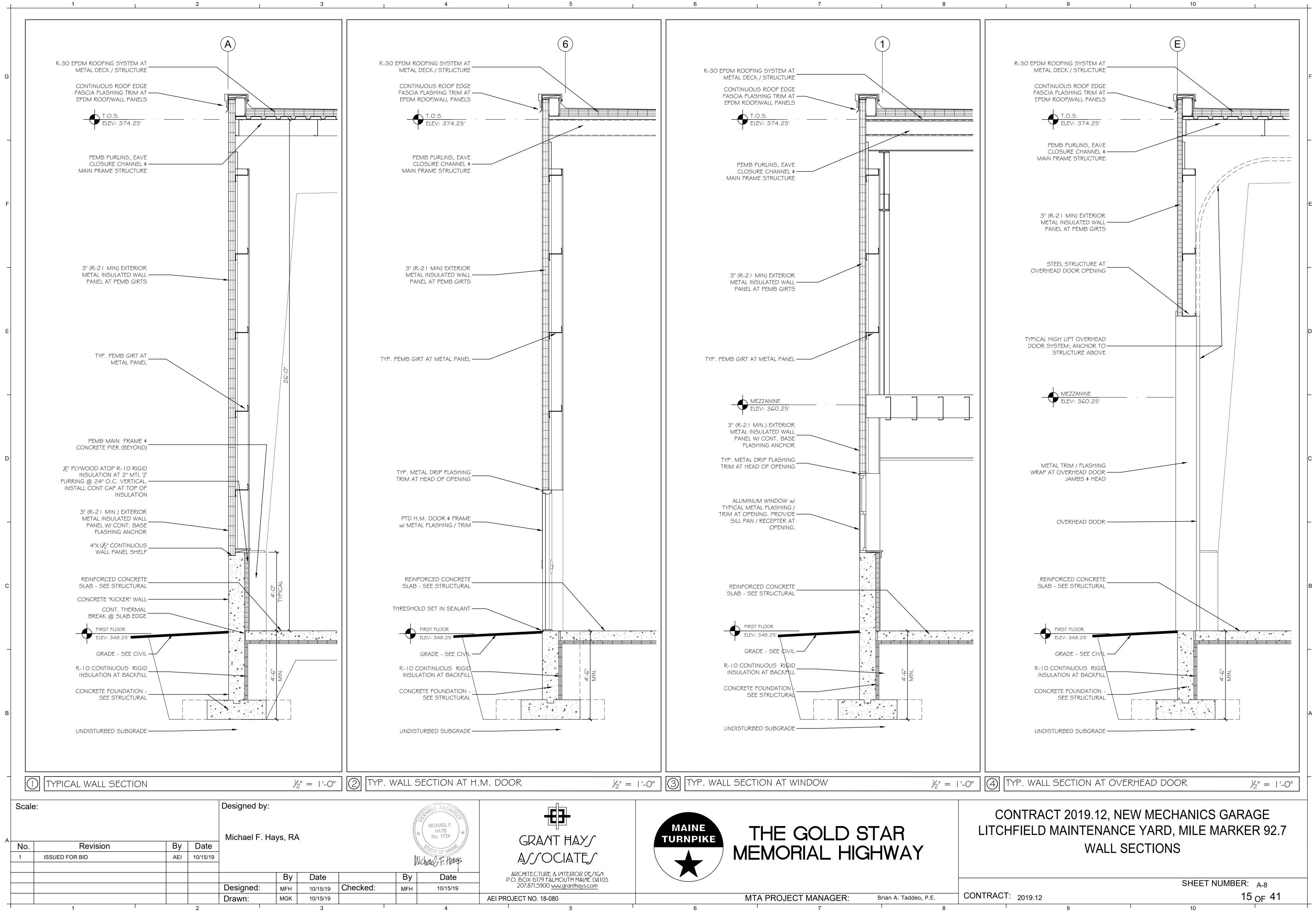
SHEET NUMBER: A-6

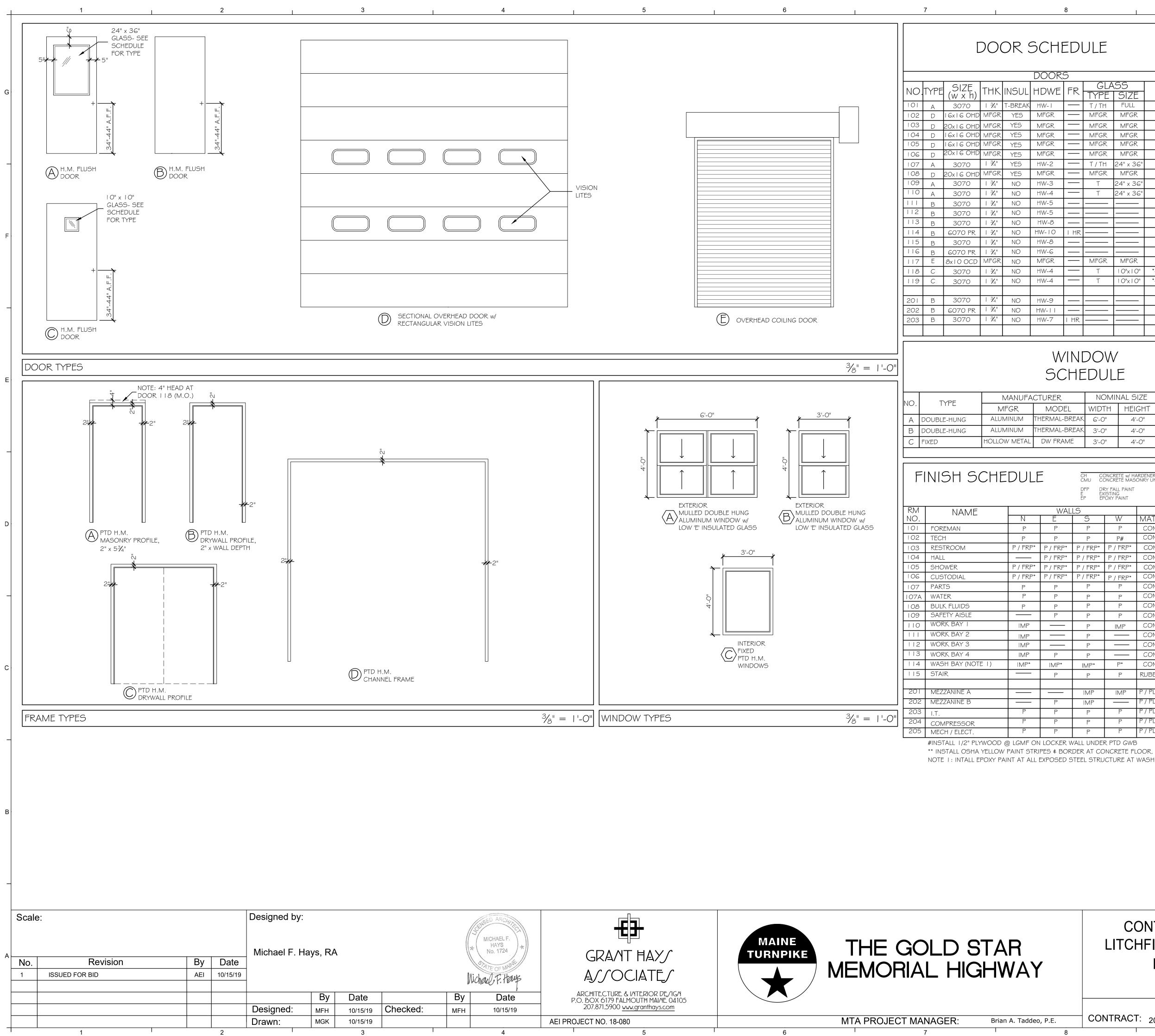
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13 _{OF} 41







		8			9					10			
							1 A LUN					RHEAD COII	ING DOOR
	<u>а ~ н</u> г	=				DW	DRYV	VALL	НМ	HOLLOW META	T TEM	IPFRFD	
∇ :		$-\mathcal{D}$	ULL				D ELEC	tro magneti	C MAS	MASONRY	T-BREAK THE TH THE	RMAL BREA RMAL INSUI	K _ATED
							HOLL	OFLINER	WI GI		" TS TRA	NSITION ST	RIP
		Allum Allum <th< td=""><td>75</td></th<>		75									
			GLA	55									
SUL	HDWE	FR			REMARKS	TYPE	FR	PROFILE			MATERIAL		
BREAK	HW-I	—	T / TH	FULL		Α		MAS	4-AI3	5-A 3	ALUM	6-A13	
res	MFGR		MFGR	MFGR		D		MAS	-A 3	2-A 3			3-A13
ΈS	MFGR	—	MFGR	MFGR		D		MAS	-A 3	2-A 3			3-AI3
ÉS	MFGR	—	MFGR	MFGR		D		MAS	-A 3	2-A 3			3-A 3
ΈS	MFGR		MFGR	MFGR		D		MAS	-A 3	2-A 3			3-A 3
ΈS	MFGR		MFGR	MFGR		D		MAS	-A 3	2-A 3			3-A 3
ÉS	HW-2		T / TH	24" x 36"		A		MAS	4-AI3	5-A 3	ALUM	6-A13	
ÉS	MFGR		MFGR	MFGR		D		MAS	-A 3	2-A 3			3-A 3
١O	HW-3		Т	24" x 36"		В		DW	7-A 3	7-A 3			18-A13
NO	HW-4		Т	24" x 36"		В		DW	7-A 3	7-A 3			18-A13
VO	HW-5					В		DW	7-A 3	7-A 3			18-A13
10	HW-5					В		DW	7-A 3	7-A 3			18-A13
90	HW-8					В		DW	7-A 3	7-A 3			18-A13
NO	HW-10	I HR				С	HR	DW	7-A 3	7-A 3			19-A13
10	HW-8					В		DW	7-A 3	7-A 3			19-A13
V O	HW-6					С		DW	7-A 3	7-A 3			18-A13
NO	MFGR		MFGR	MFGR					10-A13	-A 3			12-A13
NO	HW-4		Т	0"x 0"	*4" HEAD @ FRAME	B*		DW	3-A 3	4-A 3			15-A13
10	HW-4		Т	0"x 0"	*4" HEAD @ FRAME	B*		DW	3-A 3	4-A 3			15-A13
NO	HW-9					В		DW	7-A 3	7-A 3			18-A13
NO	HW-11					В		DW	7-A 3	7-A 3			18-A13
NO	HW-7	I HR				В	I HR	DW	17-A13	7-A 3			19-A13

WINDOW SCHEDULE

ABBREVIATIONS MFGR MANUFACTURER DW DRYWALL

ЛАNUFA	ANUFACTURER		NOMINAL SIZE		DI	ETAILS	REMARKS		
FGR	MODEL	WIDTH	HEIGHT	HEAD	JAMB	SILL	MUNT	MULL	REIVIARRO
AINUM	THERMAL-BREAK	6'-0"	4'-0"	7-A 3	8-AI3	9-AI3		MFGR	LOW 'E' INSULATED GLASS
AINUM	THERMAL-BREAK	3'-0"	4'-0"	7-A 3	8-AI3	9-AI3			LOW 'E' INSULATED GLASS
N METAL	DW FRAME	3'-0"	4'-0"	16-A13	6-A 3	16-A13			TEMPERED GLASS

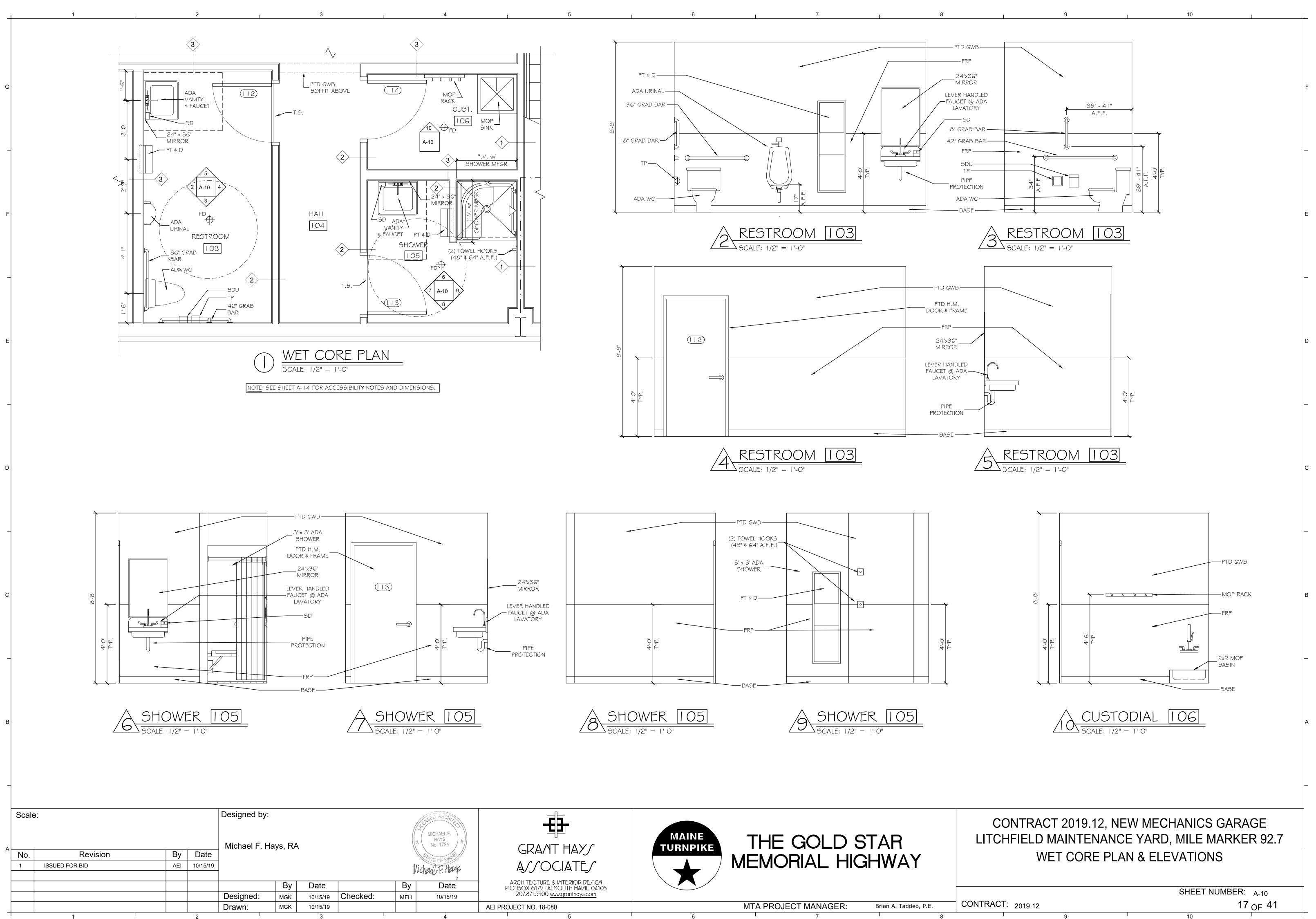
							ABBRE	VIATION	5			
DULE		CH CC CMU CC	DNCRETE W/ HA DNCRETE MAS	ARDENER ONRY UNIT	FV FIEL	RGLASS REINF D VERIFY	FORCED PANEL	5		ER BASE		WD WOOD
			RY FALL PAINT			SUM WALL BC			SAT SUSPI	ER TILE ENDED ACOL	ISTICAL TILE	
			OXY PAINT		IMP INSI	ULATED METAL	. PANEL		SS STAIN	LESS STEEL		
	WALI					ORS		CEILI		CEILI		REMARKS
N	E	S	W	MAT'L	BASE	MAT'L	BASE	TYPE	HT.	TYPE	HT.	
P	Р	Р	Р	CONC	RB			SAT	8'-8"			
Р	Р	Р	P#	CONC	RB			SAT	8'-8"			#5/8" PLYWOOD @ LOCKERS
P/FRP* F	P / FRP*	P / FRP*	P / FRP*	CONC	RB			SAT	8'-8"			*FRP TO 48" A.F.F.
F F	P / FRP*	P / FRP*	P / FRP*	CONC	RB			SAT	8'-8"			*FRP TO 48" A.F.F.
P/FRP* F	P / FRP*	P / FRP*	P / FRP*	CONC	RB			SAT	8'-8"			*FRP TO 48" A.F.F.
P/FRP* F	P / FRP*	P / FRP*	P / FRP*	CONC	RB			SAT	8'-8"			*FRP TO 48" A.F.F.
Р	Р	Р	Р	CONC	RB			P GWB	STRUCT.			
Р	Р	Р	Р	CONC	RB							
Р	Р	Р	Р	CONC	RB			P GWB	STRUCT.			
	Р	Р	P	CONC	RB	MAT*	RB	Р	'-0"(FV)			*SURFACE TYPE
IMP		Р	IMP	CONC				DFP	STRUCT.			
IMP		Р		CONC				DFP	STRUCT.			
IMP		Р		CONC				DFP	STRUCT.			
IMP	Р	P		CONC				DFP	STRUCT.			
IMP*	IMP*	IMP*	P*	CONC				DFP	STRUCT.			*EPOXY PAINT AT STEEL
	Р	P	P	RUBBER	RUBBER	RT*	RUBBER	DFP	STRUCT.			*SAFETY TREADS
		IMP	IMP	P / PLWD				DFP	STRUCT.			
	Р	IMP		P / PLWD				DFP	STRUCT.			
P	Р	Р	Р	P / PLWD	RB			DFP	STRUCT.			
P	Р	P	P	P / PLWD	RB			DFP	STRUCT.			
P	Р	Р	Р	P / PLWD	RB			DFP	STRUCT.			

NOTE 1: INTALL EPOXY PAINT AT ALL EXPOSED STEEL STRUCTURE AT WASH BAY [114] UNLESS NOTED OTHERWISE.

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 DOOR, WINDOW & FINISH SCHEDULES

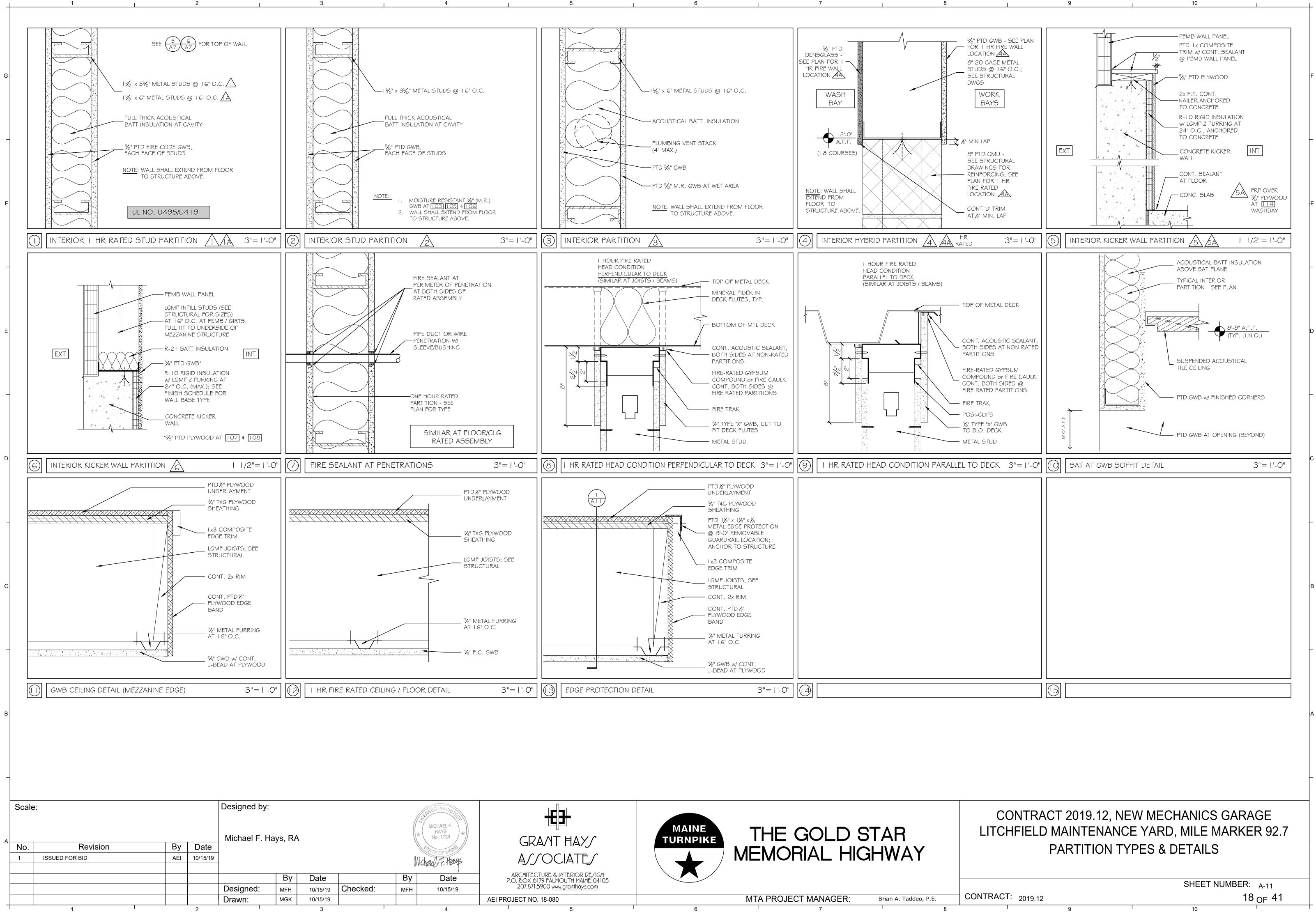
SHEET NUMBER: A-9

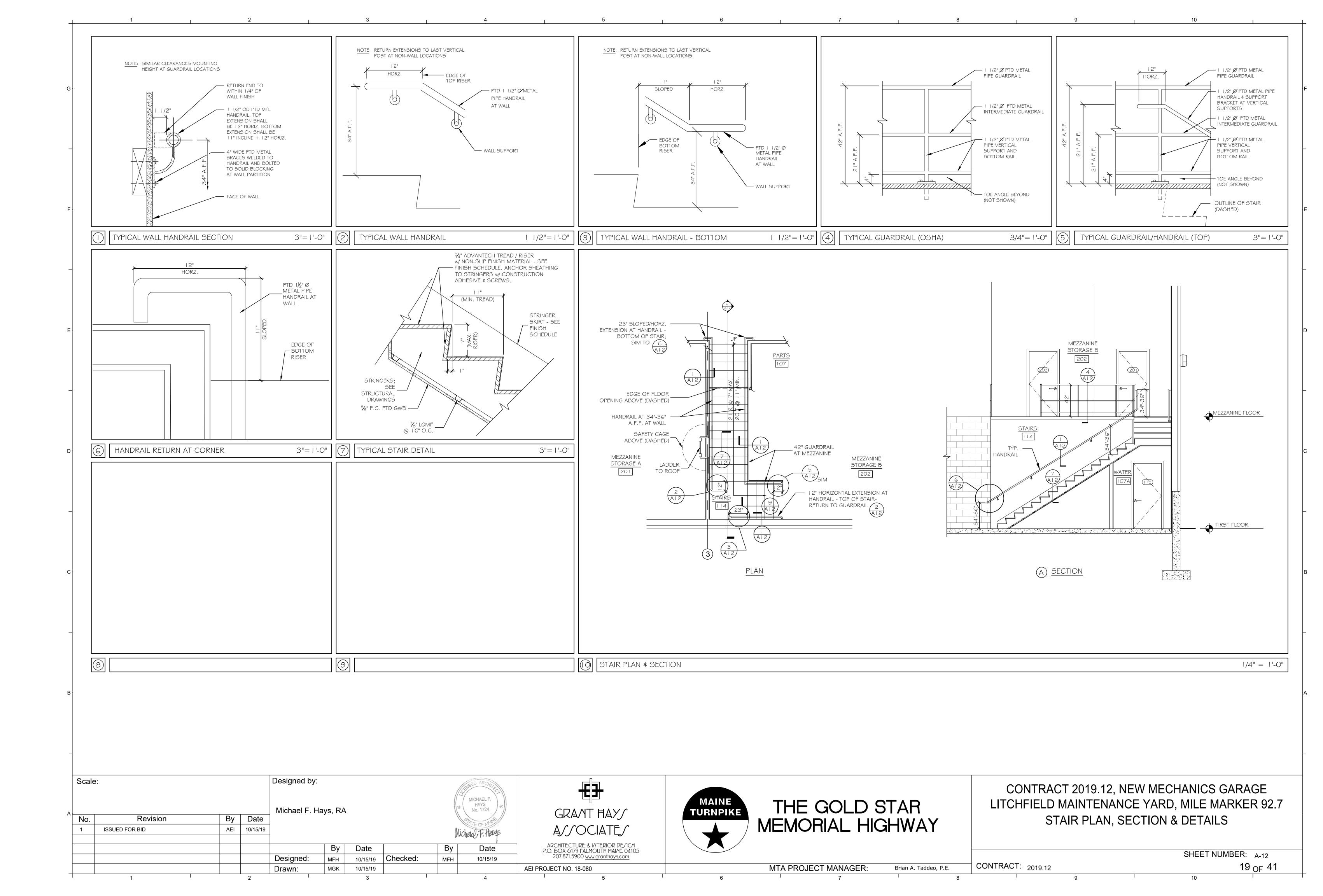
CONTRACT: 2019.12

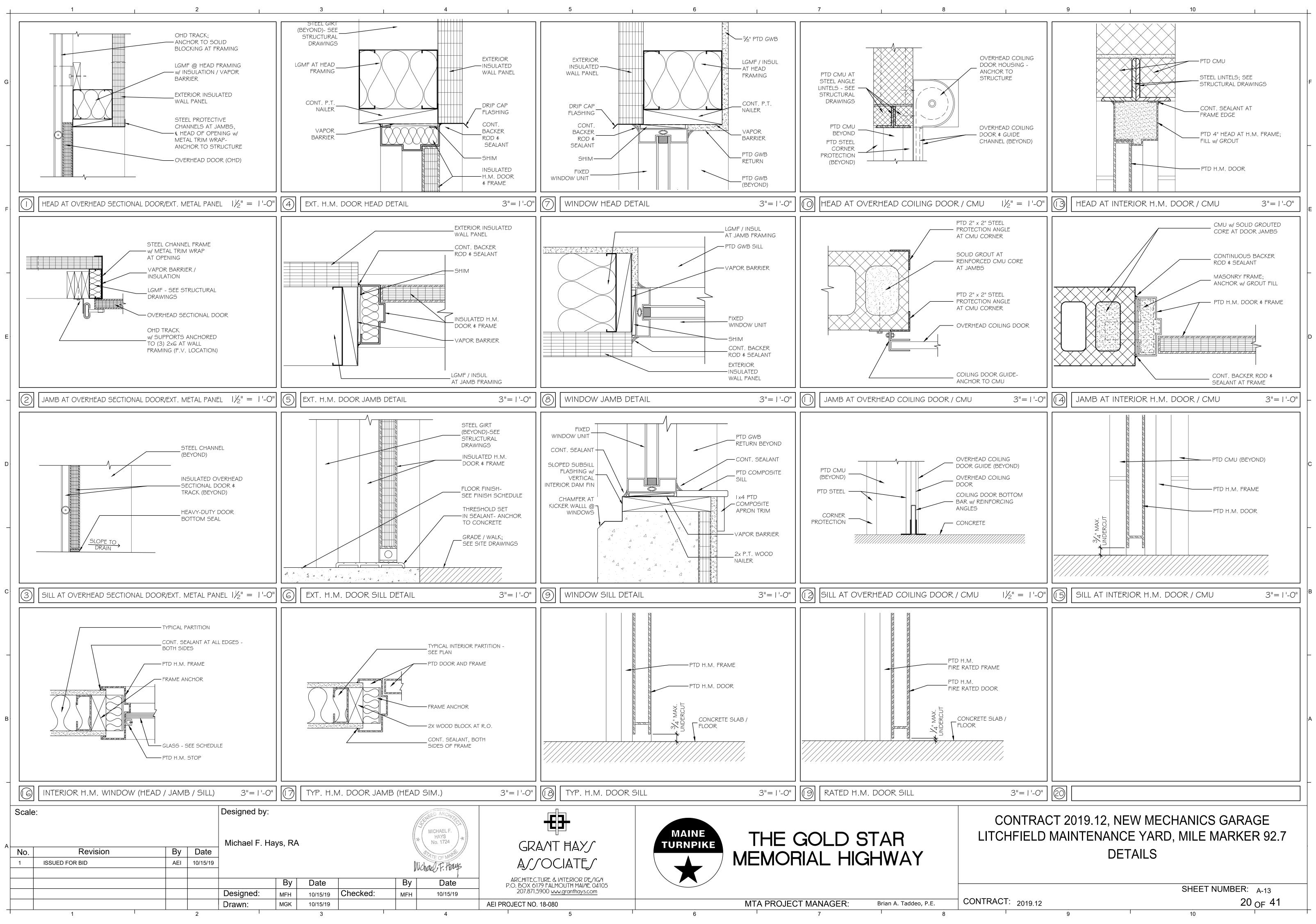


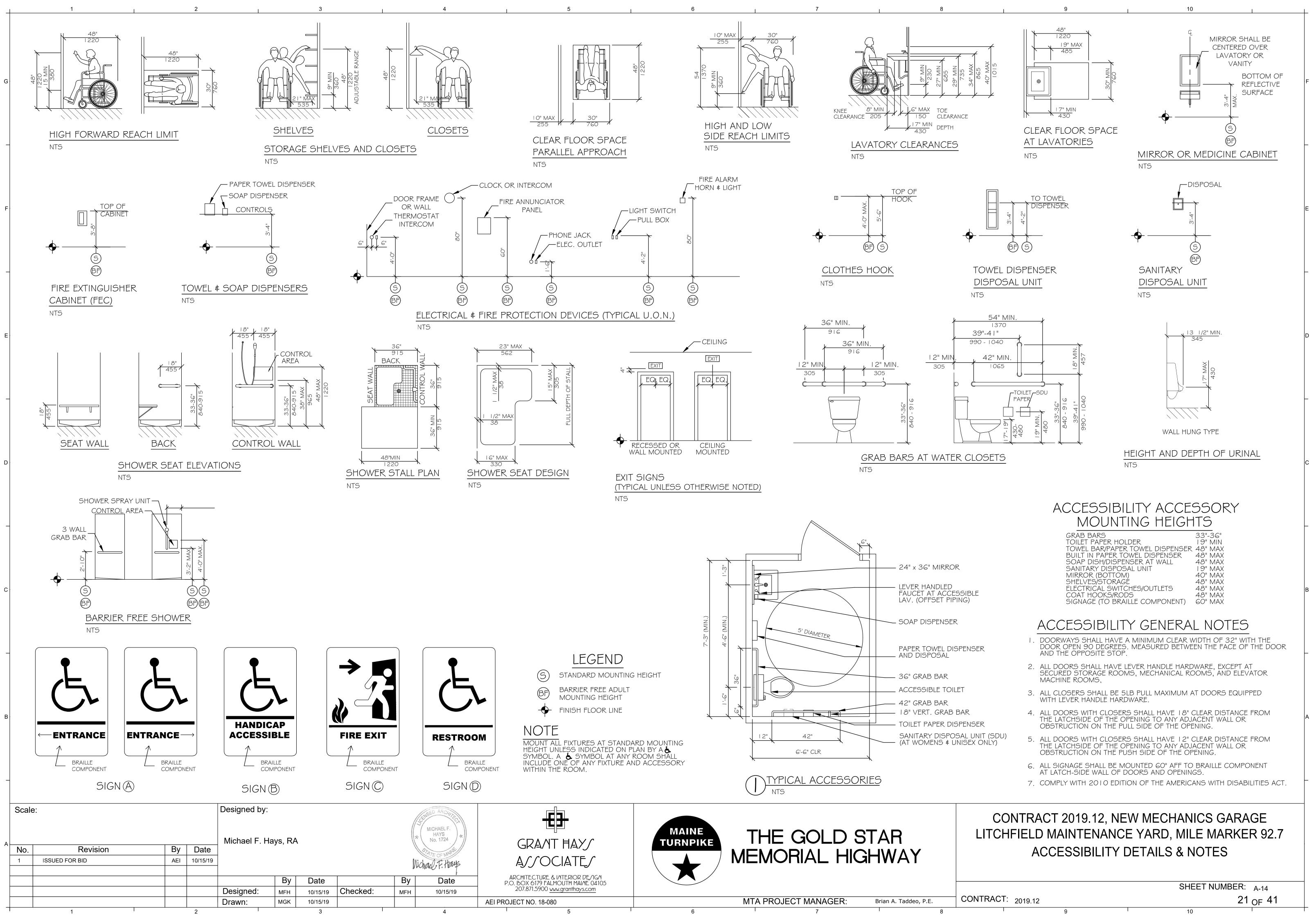












	FOUN	DATIONS:						GENE	ERAL NOTES:
	<u>1.</u>	THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE G DATED APRIL 18, 2019. FOUNDATION DESIGNS SHALL BE BAS BEARING PRESSURE(S) LISTED BELOW SHALL BE VERIFIED B' CONCRETE - 3.5 KSF.	ED ON TH	IE SOILS REPOR	T REFERENCED ABOVE. NET	T ALLOWAE	BLE	1.	BUILDING CODE: A. INTERNATION B. ASCE 7-10 MIN
	2.	EXTERIOR STRIP AND SPREAD FOOTINGS SHALL HAVE MINIM	UM 5'-0" G	GRADE COVER T	O BOTTOM OF FOOTING ELE	VATIONS.		2.	CONTRACTOR SHALL HEALTH STANDARDS
-	3.	10 MIL VAPOR BARRIER REQUIREMENTS BENEATH SLABS THF	ROUGHOU	JT OFFICE AREA				3.	ALL REFERENCED ST UNLESS NOTED OTH
	4.	UNDERDRAINS SHALL BE PLACED AS SHOWN ON THE SITE DF TO A SUITABLE DISCHARGE POINT AWAY FROM THE STRUCTI						4.	STRUCTURAL DRAWI
	5.	EXCAVATIONS FOR BUILDING FOUNDATIONS AND STRUCTUR EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL END EXISTING ADJACENT FOUNDATIONS.						5.	AND CIVIL DRAWINGS CONTRACTOR SHALL DIMENSIONS, LOCATI WITHOUT EXCEPTION
	6.	IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSE CONTRACTOR DEEMS IT NECESSARY TO OPERATE SUCH EQU RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUA LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.	JIPMENT	CLOSER THAN 8	'-0", THE CONTRACTOR SHAL	LL BE SOLE	ELY	6.	THE STRUCTURE SHA IS SOLELY RESPONS AND ITS OCCUPANTS TEMPORARY SHORIN
	7.	CONCRETE SHALL NOT BE PLACED ON FROZEN GROUND OR	IN WATER	.					WASTE MATERIAL, PR AND SANITARY PROV
=	<u>CON(</u> 1.	RETE: CONCRETE WORK SHALL COMPLY WITH ACI 301 "SPECIFICAT CODE REQUIREMENTS FOR REINFORCED CONCRETE"; AND A						7. 8.	WORK SHALL BE DON WORK TO BE DONE E HAVE JURISDICTION UTILITY EXTENSIONS
	2.	PRACTICE". CONTRACTOR SHALL PROVIDE TIES AND BRACING WHERE NE STRUCTURE(S) IS/ARE COMPLETE.	ECESSAR	Y DURING CONS	TRUCTION, TO REMAIN IN PL	LACE UNTIL	. THE	o. 9.	CONTRACTOR SHALL OF THE WORK COVE
	3.	CONCRETE SHALL BE: A. FOOTINGS, PIERS AND FOUNDATION WALLS: 3,500 PSI	AT (28) D	AYS. SLUMP SH	IALL NOT EXCEED 6 INCHES	(W/C RANG	E:		CONTRACTOR. SHOF A. SITE: SHORIN B. CONCRETE: M DRAWINGS.
		0.48 – 0.52) – (AIR ENTRAINED). B. INTERIOR SLABS-ON-GRADE: (NO AIR) a. MAINTENANCE AREA - 4,000 PSI CONCRETE AT	(28) DAYS	S. SLUMP SHAL	NOT EXCEED 6 INCHES (W/	'C RANGE: ().47 –		C. COLD-FORME WITH HEADEF
		0.50). b. OFFICE AREAS - 3,500 PSI CONCRETE AT (28) D C. EXTERIOR SLABS ON GRADE SIDEWALKS, AND STAIRS INCHES (W/C = 0.45 – 0.47) – (AIR ENTRAINED).							PROJECT STA D. PRE-ENGINEE AND CONNEC E. STRUCTURAL
	4.	CONCRETE MATERIALS: A. PORTLAND CEMENT: ASTM C150, TYPE I OR II. USE ON P. NORMAL WEIGHT ACCRECATES: ASTM C32, DROV/DE							FRAMING CON F. CONTRACTOF INCIDENTAL R
		 B. NORMAL WEIGHT AGGREGATES: ASTM C33. PROVIDE CONTAINING SOLUBALE SALTS, IRON SULFIDES, PYRIT CONCRETE SURFACES. C. LICHTWEICHT ACCEPECATES: ASTM C320. 						10.	MATCH EXIST
)		C. LIGHTWEIGHT AGGREGATES: ASTM C330D. WATER: POTABLEE. AIR-ENTRAINING ADMIXTURE: ASTM C260						11.	
		F. HIGH RANGE WATER REDUCING ADMIXTURES (SUPER THAN 1% CHLORIDE IONS.G. NORMAL RANGE WATER REDUCING ADMIXTURES: AS1	- M C494 T	,			RE		CONTRACTED BY TH
	5.	H. ACCELERATING ADMIXTURES: ASTM C494, TYPE C OR PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH CONC		LLS OR SLABS.				MASC	ONRY NOTES:
	6.	REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE ERECTED IN ACCORDANCE WITH ACI 315-LATEST EDITION.	60 DEFOR	RMED BARS, AND) SHALL BE DETAILED, FABRI	ICATED AN	D	1.	PROVIDE AND INSTAL
	7.	COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFO SUBMITTED TO THE OWNER, FOR REVIEW BY EOR PRIOR TO ACCESSORIES MUST BE SHOWN ON THE SHOP DRAWINGS.						2. 3.	CONCRETE MASONR CONCRETE MASONR INSTALLATION OF RE
	8.	WELDING OF REINFORCEMENT IS NOT PERMITTED.						4.	ARRANGEMENTS. HC
	9.	ALL CONSTRUCTION JOINTS FOR SLABS SHALL BE KEY JOINT FILLED WITH AN APPROPRIATE SEALANT FOR THE INTENDED		D-SPAN WITH RI	EINFORCING DISCONTINUOU	IS AT JOINT	AND		DETERMINED BY THE
>	10.	CONTRACTOR WILL CHECK WITH EACH TRADE TO ASSURE COUTS, ETC. REQUIRED IN CONCRETE FLOORS AND WALLS.	ORRECT L	LOCATION, SIZE	, LINE AND ELEVATION OF SL	LEEVES, BC	ND-	5. 6.	HOLLOW CONCRETE
	11.	CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR DRAIN SE VERIFY WITH ARCHITECTURAL AND PLUMBING PLANS TO ENS						7.	MORTAR: TYPE S.
	10	INTENT, DEVELOPED BY DESIGN-BUILD TEAM.					τι.	8. 9.	MAXIMUM GROUT LIF
	12.	MECHANICAL EQUIPMENT RESTING ON THE CONCRETE FLOO EXTENDING A MINIMUM OF 6-INCHES BEYOND UNIT EDGE (EA CENTER, EACH WAY. ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE	CH DIREC	CTION), REINFO	RCED WITH #3 BARS AT 18-IN	NCHES ON-		9.	AS FOLLOWS: A. (1) #5 VERTIC/ B. (1) #5 VERTIC/
_		ALUMINUM.						10	C. (1) #5 VERTIC
	14. 15.	PROVIDE IN SLABS-ON-GRADE: (2) #4 BARS, 4'-0" LONG, AT EA COORDINATE SLAB DEPRESSIONS AND ALL INTERIOR FLOOR						10.	MASONRY LAID IN OU "IMIAWC RECOMMEN
	16.	SLAB THICKNESSES (ELEVATED OR ON-GRADE) INDICATED O TO ACCOUNT FOR STRUCTURE DEFLECTION AND/OR SUBGR/ ELEVATIONS AT THE FLATNESS AND LEVELNESS INDICATED I	ADE FLUC	TUATIONS IN O			RETE	11.	MASONRY BLOCK CO
3	17.	ANCHOR BOLTS SHALL CONFORM TO ASTM A1554 – GRADE 36	UNLESS	NOTED OTHER	WISE ON PLAN.				
\									
S	Scale:				Designed by:	•			
									FAU
	Vo.	Revision	Ву	Date	WILLIAM P. FAUCHEF	R, P.E.			PPO #7
	1	ISSUED FOR BID	AEI	10/15/19					
						Ву	Date		
					Designed: Drawn:	JPM PED	10/15/19 10/15/19	Chec	ked: WPI
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NAL BUILDING CODE – 2015 EDITION NIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

L CONFORM TO SAFETY REQUIREMENTS OF THE OWNER, AIA CONTRACT DOCUMENTS, OSHA SAFETY AND

S, AND OTHER LOCAL AUTHORITIES IN CONNECTION WITH THE PERFORMANCE OF THIS PROJECT. TANDARDS OR PUBLICATIONS SHALL PERTAIN TO THE MOST CURRENT DATA, STANDARD OR PUBLICATION,

HERWISE. VINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL S AND/OR NARRATIVES. WHICH DESCRIBE THE SCOPE OF WORK.

L VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER, TO VERIFY EXISTING CONDITIONS, TION OF EXISTING UTILITIES, ETC. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES,

HALL BE DESIGNED AS A SELF-SUPPORTING SYSTEM ONCE ALL WORK HAS BEEN COMPLETED. CONTRACTOR SIBLE FOR ERECTION PROCEDURES AND SEQUENCE OF INSTALLATION TO ENSURE SAFETY OF THE BUILDING S DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND NG, PRECAUTIONS DURING BUILDING OPERATIONS, PROTECTION OF PUBLIC AND WORKERS, REMOVAL OF ROTECTION OF ADJACENT PROPERTY, PROTECTION OF HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, VISIONS OF EMPLOYEES AND SUB-CONTRACTORS, AS REQUIRED, FOR THE DURATION OF THE CONTRACT.

ONE IN AN ORDERLY AND PROFESSIONAL MANNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL BY SUB-CONTRACTORS, LOCAL AUTHORITIES, STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY NOVER THIS PROJECT.

IS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.

L REVIEW AND SUBMIT COMPLETE SHOP DRAWINGS FOR ALL SPECIFIED PARTS OF THE WORK. NO PORTION RED BY THESE SHOP DRAWINGS SHALL COMMENCE UNTIL RETURNED APPROVED SHOPS ARE RECEIVED BY P SUBMITTAL PACKAGES SHALL INCLUDE, BUT NOT BE LIMITED TO: NG AND CONSTRUCTION METHODS/SEQUENCING, WHERE APPLICABLE.

MIX DESIGNS, ADMIXTURES, MIX HISTORIES; REBAR ORIGIN STRENGTH/GRADE; REBAR PLACEMENT ED METAL FRAMING: COLD-FORMED METAL CUT SHEETS, CONNECTIONS, PLACEMENT DRAWINGS ALONG

R/JAMB AT OPENINGS AND FRAMING ELEMENT CALCULATIONS SIGNED BY A PE, REGISTERED IN THE ERED BUILDING: PRE-ENGINEERED BUILDING CALCULATIONS AND DRAWINGS, STEEL FRAMING COMPONENTS

CTIONS, ALL SEALED BY A PE REGISTERED IN THE PROJECT STATE. L STEEL: MISCELLANEOUS STEEL FRAMING COMPONENT SHOP DRAWINGS, ALONG WITH APPLICABLE MPONENT AND CONNECTION CALCULATIONS, ALL SEALED BY A PE REGISTERED IN THE PROJECT STATE. R IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION; SUCH REPAIRS SHALL TING TO THE OWNER'S SATISFACTION.

SPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ITEMS/MATERIALS TO REMAIN THE OWNER WITH THE OWNER'S REPRESENTATIVE.

NS, AS REQUIRED BY IBC 2015 SECTION 1704, SHALL BE PERFORMED BY AN INSPECTION AGENCY E OWNER FOR ALL SPECIFIC REQUIREMENTS OFFERED IN THE STRUCTURAL NOTES SECTION OF S-000.

LL MASONRY LINTELS FOR MASONRY WALL OPENINGS.

Y AND BLOCK VENEER LINTELS SHALL HAVE 8-INCH (MIN) END BEARING UNLESS OTHERWISE NOTED.

Y BLOCK WALLS WITH VERTICAL REINFORCING SHALL HAVE CORES FILLED WITH 3000 PSI CONCRETE. EINFORCEMENT SHALL BE CONTINUOUS AND RUN UNOBSTRUCTED BY BAR JOIST SEAT/BEARING PLATE DRIZONTAL REINFORCEMENT SHALL BE PROVIDED @ 16-INCHES ON-CENTER VERTICALLY.

L, EXPANSION OR CONTRACTION JOINTS SHALL BE SHOWN ON THE CONTRACT DOCUMENTS AT LOCATIONS E CONTRACTOR'S STRUCTURAL ENGINEER.

E BLOCK UNITS: GRADE N, 3,250 PSI CMU NET AREA, DESIGN STRENGTH, F'M = 2,500 psi.

ING BOND - CORNERS SHALL HAVE A STANDARD BOND BY OVERLAPPING UNITS.

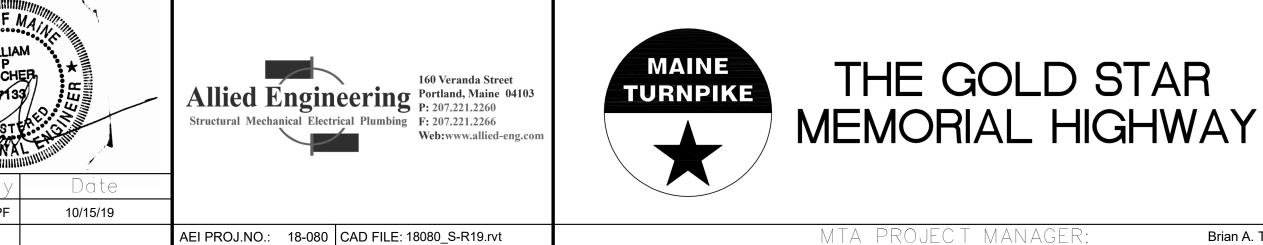
ROVIDE VERTICAL REINFORCING IN CENTER OF GROUT, AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL

CAL AT CORNERS, INTERSECTIONS, WALL ENDS, JAMBS AND EACH SIDE OF EXPANSION OR CONTROL JOINTS. CAL AT 48-INCHES ON-CENTER TYPICAL. (UNLESS NOTED ON PLAN) CAL IN EACH CORE WITHIN 12-INCHES OF WALL CORNERS.

UTSIDE AIR TEMPERATURES BELOW 40°F SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF THE NDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY".

ORES BELOW FINISH FLOOR SHALL BE FILLED SOLID WITH CONCRETE.

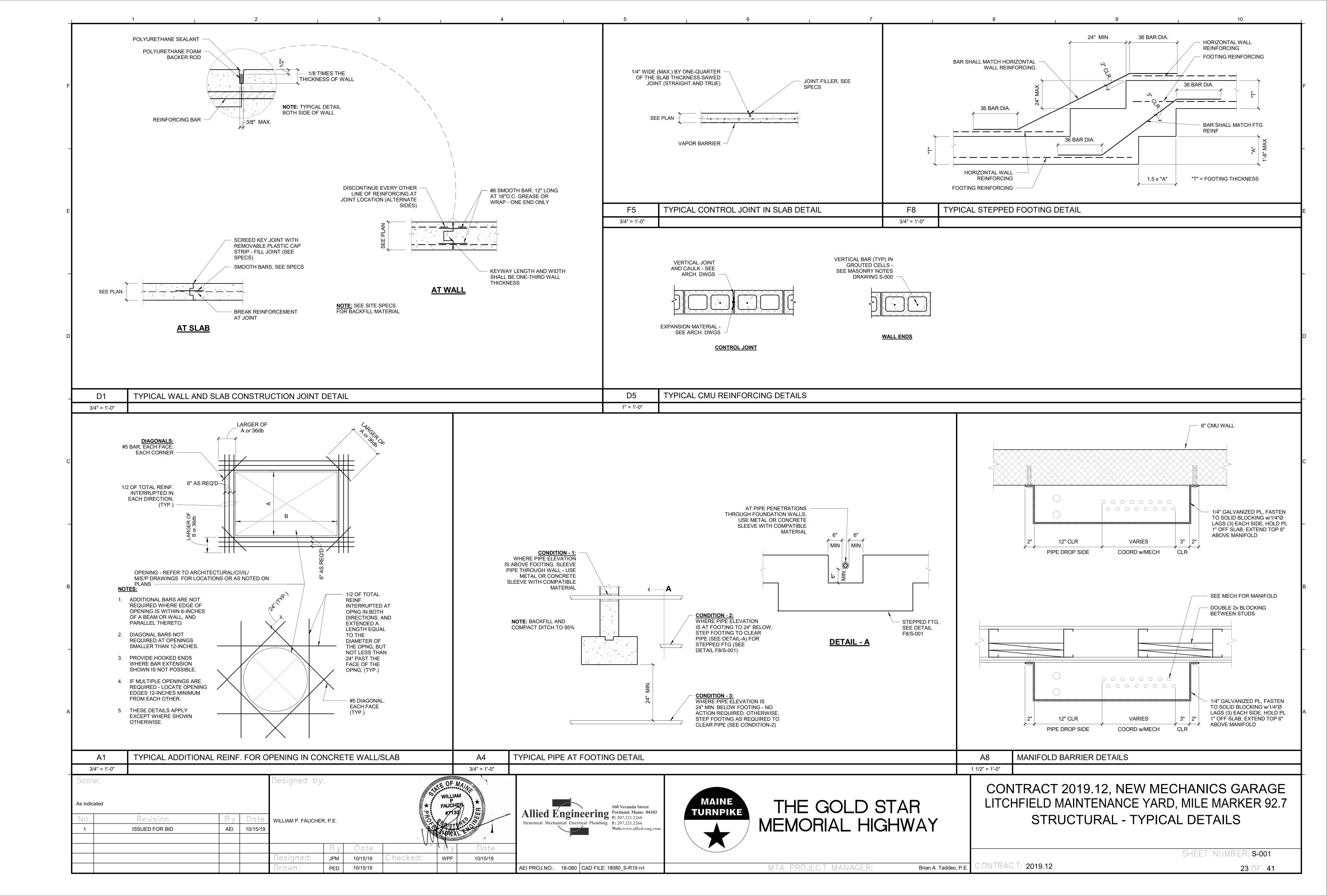
	8 9 10
RUCTURAL NOTES:	COLD-FORMED (LIGHT-GAGE) STRUCTURAL STEEL
MINIMUM LOADING REQUIREMENTS: A. DESIGN CODES: a. INTERNATIONAL BUILDING CODE – 2015	 COLD-FORMED METAL FRAMING (CFMF) UNITS INCLUDE C-SHAPED STEEL STUDS, T-SHAPED TRACKS FOR LOAD AND NON-LOAD BEARING WALLS AND C-SHAPE JOISTS.
 b. ASCE/SEI 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES c. AISC SEISMIC DESIGN MANUAL – 2012 d. MBMA'S "METAL BUILDING SYSTEMS MANUAL 	2. (PER DIVISION 05 54 00): THE FOLLOWING COLD-FORMED FRAMING SHALL BE PER THE SIZES SPECIFIED ON THE CONTACT DOCUMENTS. CFM DESIGNER SHALL INCLUDE SPECIFIED FRAMING SIZES AND INCLUDE ALL NECESSARY ACCESSORIES AND CONNECTIONS FOR THESE WALL AND FLOOR ELEMENTS IN THEIR SHOP SUBMITTAL. DRAWINGS AND CONNECTION
 B. DESIGN PARAMETERS a. <u>ROOF SNOW LOADS</u>: (EXCEPT AT DRIFTING SNOW LOCATIONS AND THOSE LISTED BELOW EOR TO DETERMINE DRIFTING SNOW 	REQUIREMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW FOR THE FOLLOWING ELEMENTS:
LOCATIONS) 1. GROUND SNOW LOAD: $P_G = 60.0 \text{ PSF}$ A. IMPORTANCE FACTOR: $I_s = 1.20$	 A. BEARING WALL FRAMING SIZES. B. SHEAR WALL POSTS, STRAPS AND BOOT ASSEMBLIES. C. MEZZANINE FLOOR FRAMING JOISTS AND SUPPLEMENTAL FRAMING AT OPENINGS.
B. COLD ROOF SLOPE FACTOR: $C_s = 1.0$ C. THERMAL FACTOR: $C_t = 1.10$	 D. BUILT-UP CFM POSTS AT SPECIFIC LOCATIONS THROUGHOUT THE BUILDING. E. ALL NECESSARY ACCESSORIES AND CONNECTIONS FOR THESE WALL AND FLOOR FRAMING ELEMENTS.
D. EXPOSURE FACTOR: C _e = 1.0 E. TERRAIN CATEGORY: "B"	3. (PER DIVISION 05 54 00): THE FOLLOWING COLD-FORMED FRAMING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED
2. FLAT ROOF SNOW LOAD: Pf = 55.4 PSF C. ROOF DEAD LOAD: 20 PSF (INCL. 8.0 PSF, FOR FUTURE SOLAR ARRAY) 20 PSF (INCL. 8.0 PSF, FOR FUTURE	IN THE PROJECT LOCATION STATE. DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW FOR THE FOLLOWING ELEMENTS: A. INTERIOR, LOAD-BEARING AND NON-LOAD-BEARING WALL FRAMING, ALONG WITH WINDOW/DOOR HEADER, JAMB AND SILL
D. <u>ROOF LIVE LOAD:</u> a. STANDARD ROOF LIVE LOAD: 20 PSF	ELEMENTS. B. MISCELLANEOUS SUPPORT FRAMING AT EXTERIOR CEILINGS AND/OR SOFFITS.
E. <u>FLOOR LIVE LOADS</u> : <u>UNIFORM</u> <u>CONCENTRATED</u> <u>PARTITION</u> a. OFFICE BUILDINGS	 CEILING JOIST FRAMING ALONG WITH ANY NECESSARY OPENINGS FOR MECHANICAL AND PLUMBING ELEMENTS. SOFFIT FRAMING.
1. OFFICES 50 PSF 2,000# 15 PSF 2. 1 ST FLOOR CORRIDORS 100 PSF 2,000# 3. CORRIDORS ABOVE 1 ST FLOOR 80 PSF 2,000#	 E. HEADERS, JAMBS AND SILLS FOR DOOR AND WINDOW OPENINGS IN BOTH BEARING AND NON-LOAD BEARING WALLS. F. ALL NECESSARY ACCESSORIES AND CONNECTIONS FOR THESE WALLS AND FLOOR FRAMING ELEMENTS.
 MEZZANINE/STORAGE - LIGHT 125 PSF VEHICLE MAINTENANCE FLOOR – DESIGN FOR TRUCKS AND BUSES SHALL BE PER AASHTO LRFD BRIDGE DESIGN 	4. ALL COMPONENTS SHALL CONFORM TO AISI "SPECIFICATIONS FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND ASTM A446. ALL STUD WALL COMPONENTS, FLOOR AND CEILING JOISTS, AND ACCESSORIES SHALL BE G-60 GALVANIZED (ASTM ASTAC
SPECIFICATIONS; HOWEVER, PROVISIONS FOR FATIGUE AND DYNAMIC LOAD ALLOWANCE ARE NOT REQUIRED TO BE APPLIED. F. <u>WIND:</u>	A525). 5. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND
a. FACTORS: 1. ASCE-7-10 $V_{ult} = 120 \text{ MPH}$	
Vasd = 93 MPH 2. EXPOSURE CATEGORY: B 3. BUILDING HEIGHT: <30'	6. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE TEMPORARY BRACING AS REQUIRED MAINTAINING A PLUMB STRUCTURE UNTIL ERECTION IS COMPLETE. DO NOT REMOVE BRACING UNTIL WORK IS PERMANENTLY STABILIZED.
G. <u>SEISMIC</u> a. DESIGN DATA:	 FIELD CUTTING OF LIGHT GAUGE FRAMING MEMBERS MAY BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF LIGHT GAUGE MEMBERS IS UNACCEPTABLE.
 BUILDING RISK CATEGORY: IV – ESSENTIAL FACILITY MAPPED RESPONSE SPECTRAL ACC. (0.2 SEC.): Sc. = 0.232G 	8. SPLICING OF WALL STUDS IS NOT ALLOWED, UNLESS OTHERWISE STATED.
ACC. (0.2 SEC.): $S_S = 0.232G$ 3. MAPPED RESPONSE SPECTRAL ACC. (1.0 SEC.): $S_1 = 0.079G$	9. WELDS SHALL CONFORM TO AWS D1.1, AWS D1. AND AISI MANUAL SECTION E2. WELDS SHALL BE TOUCHED-UP USING A ZINC-RICH PAINT. WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS.
4. SOIL SITE CLASSIFICATION: D 5. DESIGN RESPONSE SPECTRAL	10. NOTCHING OR COPING OF STUDS IS NOT ALLOWED, UNLESS OTHERWISE STATED.
ACC. @ 5% DAMPED DESIGN: $S_{DS} = 0.247GS_{D1} = 0.126G$ 6.SEISMIC DESIGN CATEGORY:C7.BASIC SEISMIC FORCE-RESISTING	11. USE A MINIMUM OF THREE STUDS AT THE CORNER OF ALL WALLS.
8. SEISMIC FORCE-RESISTING SYSTEM: H1 (SEE BELOW) 8. SEISMIC BASE SHEAR: 32 KIPS	12. FASTEN BOTH FLANGES OF STUDS TO TOP AND BOTTOM TRACK, EXCEPT AT DEFLECTION TRACK LOCATIONS, UNLESS OTHERWISE STATED.
9.SEISMIC RESPONSE COEFFICIENTCs = 0.12410.ANALYSIS PROCEDURE:EQUIVALENT LATERAL FORCE	13. SQUARELY AND TIGHTLY SEAT STUDS AGAINST WEBS OF TOP AND BOTTOM TRACK, EXCEPT AT DEFLECTION TRACK LOCATIONS.
PROCEDURE b. DESIGN COEFFICIENTS AND FACTORS FOR SEISMIC FORCE RESISTING SYSTEMS	14. PROVIDE AT LEAST 12" OF UNPUNCHED STEEL AT ALL BEARING POINTS.
1. STEEL SYSTEMS NOTE SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE A. ORDINARY STEEL CONCENTRICALLY BRACED FRAMES a. RESPONSE MODIFICATION R = 3	15. THE FRAMING ERECTOR IS TO ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS TO LENGTH. LATERAL BRACING MUST BE INSTALLED AT THE TIME THE WALL IS ERECTED. FAILURE TO INSTALL LATERAL BRACING AT THIS TIME MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE FRAMING ASSEMBLY AND/ OR BUILDING.
b. SYSTEM OVERSTRENGTH FACTOR $\Omega_0 = 3$ c. DEFLECTION AMPLIFICATION FACTOR $C_D = 3$	16. ALL HEADERS AND BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH CONTINUOUS, UNPUNCHED MATERIAL ONLY. SPLICING HEADER MEMBERS IS NOT ALLOWED, UNLESS OTHERWISE STATED.
CIAL INSPECTIONS	17. STUDS SHALL BE SO POSITIONED THAT STUDS ALIGN ABOVE AND BELOW FLOOR AND ROOF FRAMING JOISTS.
SPECIAL INSPECTIONS: AN INDEPENDENT INSPECTIONS PROGRAM AND SCHEDULE SHALL BE INCLUDED AND ARRANGED FOR, BY THE CONTRACTOR. A QUALIFIED PERSON APPROVED BY THE BUILDING OFFICIALS SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE	18. FOR SPECIFIC REQUIREMENTS AND WARRANTY INFORMATION ON SYSTEMS OR MATERIAL OR MATERIALS CONNECTED AND APPURTENANT TO THE COLD FORMED STEEL FRAMING INCLUDING WINDOWS, CAULKING AND FLASHING, REFER TO MANUFACTURER'S DATA. THE INTEGRITY OF THE BUILDING ENVELOPE, INCLUDING SIDING, FLASHING, ETC. TO PREVENT WATER PENETRATION/DAMAGE, IS IN NO WAY THE RESPONSIBILITY OF THE ENGINEER.
IBC-2015, AND AS DEFINED. SPECIAL INSPECTOR SHALL OBSERVE WORK FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.	 DETAILS OF ALL FINISHES ARE FOR ARRANGEMENT AND REFERENCE. FOR SPECIFIC REQUIREMENTS, METHODS, MATERIAL, AND EXECUTION STANDARDS, REFER TO TECHNICAL DATA FROM PRODUCT MANUFACTURER. IN THE EVENT OF CONFLICT, MANUFACTURER'S INSTRUCTION SHALL DICTATE.
TO THE ATTENTION OF THE CONTRACTOR AND IF NOT CORRECTED, SHALL BE REPORTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER.	20. DESIGN PERFORMED IN ACCORDANCE WITH THE AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL
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.	MEMBERS". 21. ALL MEMBERS INDICATED ON THE CONTRACT DOCUMENTS ARE TO CONSIDERED MINIMUM PER STRUCTURAL DESIGN. INCREASES IN FLANGES AND GAUGES AS DESIRABLE OR AS OTHERWISE REQUIRED THROUGH COORDINATION BETWEEN OTHER TRADES, IS
LD TESTING	GENERALLY ACCEPTABLE PROVIDED AVAILABLE SPACE REQUIREMENTS ARE MAINTAINED. MATERIALS:
BOLTED CONNECTIONS: 100% OF COMPONENTS AND FASTENERS IN SLIP CRITICAL CONNECTIONS, AS IDENTIFIED IN THE PROJECT CONTRACT	1. ALL LIGHT GAUGE FRAMING MEMBERS SHALL BE MANUFACTURED FROM STEEL THAT MEETS THE REQUIREMENTS OF AISI
DOCUMENTS, SHALL BE VISUALLY INSPECTED AND TESTED FOR TIGHTNESS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS, PARTS 8 AND 9.	SPECIFICATIONS, LATEST EDITION. 2. ALL DIAGONAL STRAP BRACING SHALL BE OF A FLAT STOCK. MATERIAL FROM A COILED STOCK IS NOT ALLOWED.
CHECK BY CALIBRATION TORQUE WRENCH: 25% OF BOLTS IN EACH NON-SC SHEAR CONNECTION, BUT NOT LESS THAN (2) PER CONNECTION.	3. FRAMING COMPONENTS SHALL BE GALVANIZED PER ASTM A653, MINIMUM COATING PER PROJECT SPECIFICATIONS.
FIELD-WELDED CONNECTIONS: PERFORM TESTING IN ACCORDANCE WITH ANSI/AWS D1.1, CHAPTER 6.	4. GALVANIZED STUDS, TRACKS, FLOOR JOISTS AND ACCESSORIES SHALL BE FORMED FROM THE FOLLOWING YIELD STRENGTH AND ITS RESPECTIVE GAUGE: 33 MIL-33 KSI, 43 MIL-33 KSI, 54 MIL AND HEAVIER – 50 KSI, UNLESS NOTED OTHERWISE.
CONDUCT TESTING OF 10% OF WELDS ON STRUCTURAL STEEL BY DYE PENETRATION OR MAGNETIC PARTICLE TESTING. CONDUCT TESTING OF 100% OF GROOVE, PLUG, OR SLOT WELDS IN STRUCTURAL STEEL BY ULTRASONIC TESTING OR OTHER	TO REGILETIVE GROOP. 33 WIL-33 RGI, 43 WIL-33 RGI, 34 WIL AND NEAVIER - 30 RGI, UNLEGO NUTED UTNERWIGE.
NONDESTRUCTIVE TESTING, APPROVED BY ENGINEER OF RECORD. RADIOGRAPHICALLY TEST 5% OF ALL FULL-PENETRATION WELDS.	CONNECTIONS: 1. FASTENER PENETRATION TROUGH JOINED MATERIALS SHALL NOT BE LESS THAN THREE EXPOSED THREADS. MINIMUM SPACING
RADIOGRAPHICALLY TEST 5% OF ALL FULL-PENETRATION WELDS. WELDED SHEAR STUDS: 10% OF STUDS SHALL BE TESTED BY BENDING OR TORQUEING IN ACCORDANCE WITH ANSI/AWS D1.1 SECTION 7.8.	AND EDGE DISTANCE OF SCREW FASTENERS SHALL NOT BE LESS THAN 5/8"
THE STRUCTURAL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED.	 PAF'S, EXPANSION ANCHOR SYSTEM, MASONRY SCREW SYSTEMS, AND ADHESIVE ANCHOR SYSTEMS DESIGN VALUES ARE BASED ON HILTI PUBLISHED VALUES, UNLESS OTHERWISE STATED.
	3. SCREW DESIGN VALUES ARE BASED ON AISI/LGSEA PUBLISHED VALUES.
	4. ALL WELDED CONNECTIONS ARE TO BE PERFORMED BY A QUALIFIED WELDER IN ACCORDANCE WITH THE LATEST VERSION OF AISI D1.3 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES. REFER TO AWS D19.0 WELDING ZINC COATED STEEL AND ANSELF-TAPPING SCREWS SHALL HAVE A PROTECTIVE COATING AT LEAST EQUIVALENT TO CADMIUM OR ZINC PLATING (ASTM A165 TYPE NS) FOR USE IN EXTERIOR ASSEMBLIES.
	5. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDING OF SUFFICIENT SIZE TO MEET OR EXCEED THE
	 DESIGN LOADS AND TO ASSURE THE STRENGTH OF THE CONNECTION. PROVIDE BRIDGING AT 4' ON-CENTER VERTICAL MAXIMUM SPACING. PROVIDE BLOCKING AS INDICATED, AND AS REQUIRED BY
	AISI.
	 ALL FIELD ABRASIONS TO MEMBERS FROM FIELD WELDING SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. AT TRACK BUTT JOINTS, TRACK MUST BE ANCHORED TO A COMMON STRUCTURAL ELEMENT WITHIN 6 INCHES OF END OF TRACK.
	9. STUDS SHALL BE SEATED SQUARELY IN TRACK WITH STUD FLANGES ABUTTING THE TRACK FLANGES. STUDS SHALL BE PLUMBED,
	9. STUDS SHALL BE SEATED SQUARELY IN TRACK WITH STUD FLANGES ABUTTING THE TRACK FLANGES. STUDS SHALL BE PLUMBED, ALIGNED AND SQUARELY ATTACHED TO FLANGES OF TOP AND BOTTOM TRACK WITH 2-#10 TEK SCREWS MINIMUM UNLESS NOTED ON PLANS.

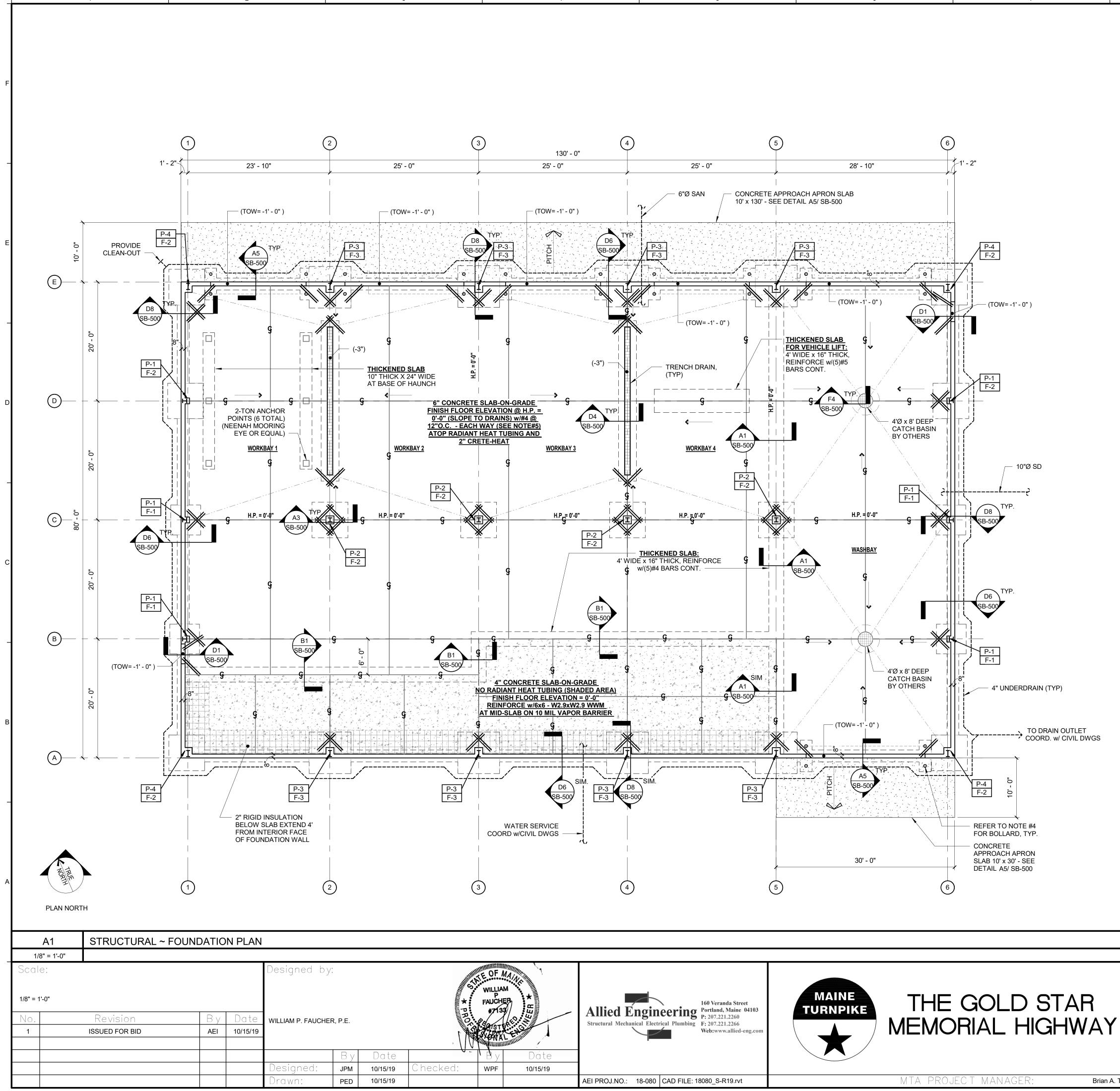


T WITHOUT CLEANOUTS SHALL NOT EXCEED 4'-0" IN BLOCK WALLS.

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 **STRUCTURAL - GENERAL INFORMATION**

SHEET NUMBER: **S-000**





FOUNDATION PLAN NOTES:

- 1. FINISH SLAB ELEVATION = 348.25' (NOMINALLY REFERRED TO 0'-0" IN THESE DRAWINGS) UNLESS NOTED OTHERWISE.
- 2. TOP OF WALL ELEVATION = 4'-0" UNLESS NOTED OTHERWISE
- BOTTOM OF FOOTING SHALL BE 5'-0" MIN. BELOW FINISHED GRADE 3.
- PROVIDE BOLLARDS AT EACH OVERHEAD DOOR AS SHOWN ON PLAN -4. SET BOLLARD ON A 2'-0" SQ. x 12-INCH THICK FOOTING MIN. REFER TO TYPICAL BOLLARD DETAIL A8/ SB-500
- REINFORCING FOR 6" INTERIOR SLAB SHALL BE SET ATOP CRETE-HEAT 5. INTEGRATED BOLSTERS, TYPICAL. AT NON CRETE-HEAT AREAS (i.e. TRENCH DRAIN LOCATIONS) REINFORCING SHALL BE 1" CLEAR FROM BOTTOM OF SLAB.
- 6. COORDINATE WITH CIVIL DRAWINGS FOR INFORMATION REGARDING UTILITY LOCATIONS AND ELEVATION AT FOUNDATIONS. STEP FOOTINGS AT THESE LOCATIONS AS REQUIRED - REFER TO DETAIL F8/ S-001
- F-# INDICATES FOOTING TYPE SEE SB-100 FOR SCHEDULE
- P-# INDICATES CONCRETE PIER SEE SB-100 FOR SCHEDULE

	PIER SCHEDULE								
MARK	SIZE	REINFORCING							
P-1	12 x 16	(4)#6 BARS VERTICAL w/#3 TIES @ 12"O.C. (3) @ 3" AT TOP							
P-2	16 x 16	(4)#6 BARS VERTICAL w/#3 TIES @ 12"O.C. (3) @ 3" AT TOP							
P-3	16 x 21	(8)#6 BARS VERTICAL w/#3 TIES @ 12"O.C. (3) @ 3" AT TOP							
P-4	22 x 21	(8)#6 BARS VERTICAL w/#3 TIES @ 12"O.C. (3) @ 3" AT TOP							

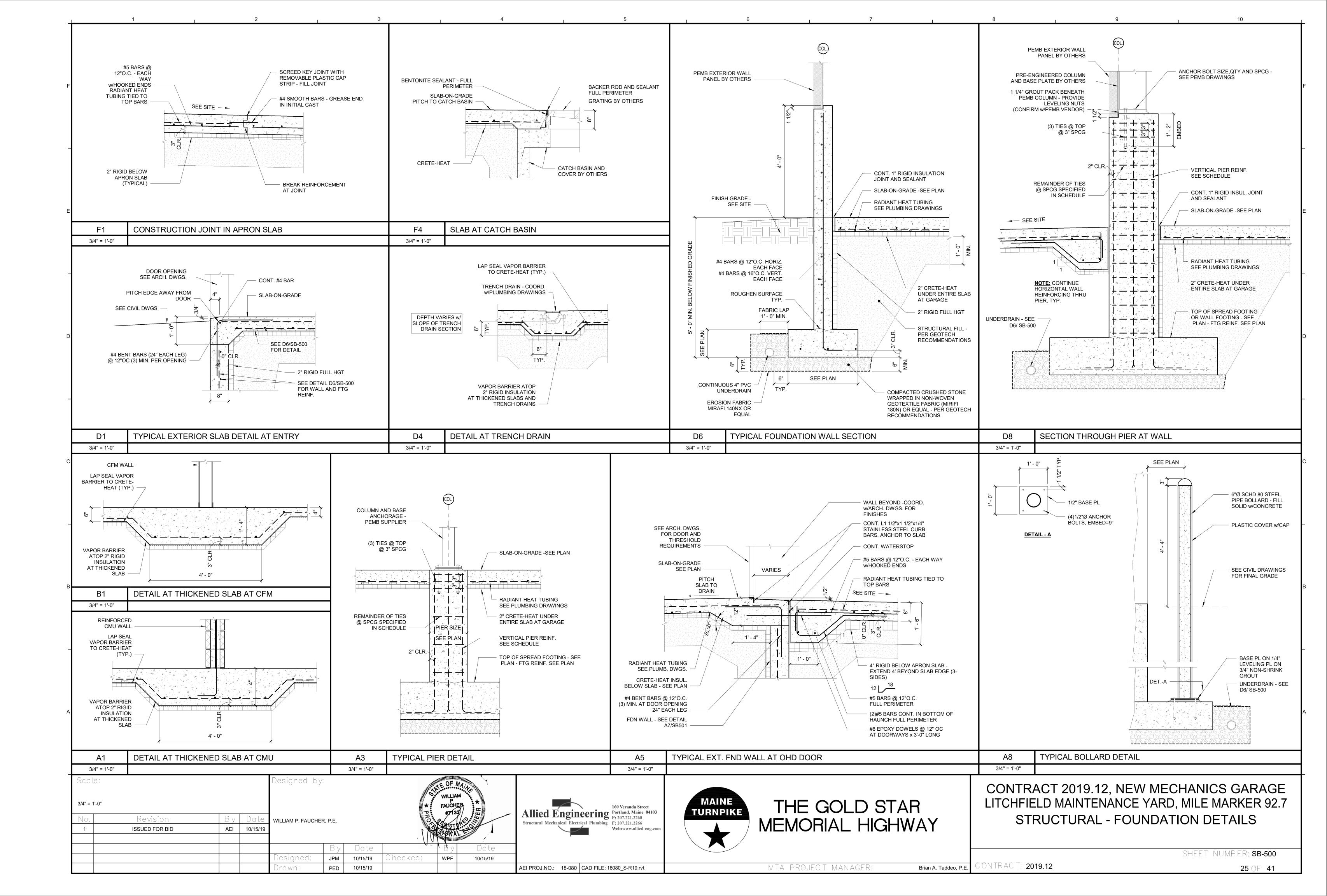
	FOOTING SCHEDULE									
MARK	SIZE	REINFORCING								
F-1	5'-0" x 5'-0" x 1'-2"	(4)#6 BARS, E.W BOTTOM								
F-2	6'-0" x 6'-0" x 1'-2"	(5)#6 BARS, E.W BOTTOM								
F-3	7'-0" x 7'-0" x 1'-2"	(6)#6 BARS, E.W BOTTOM								

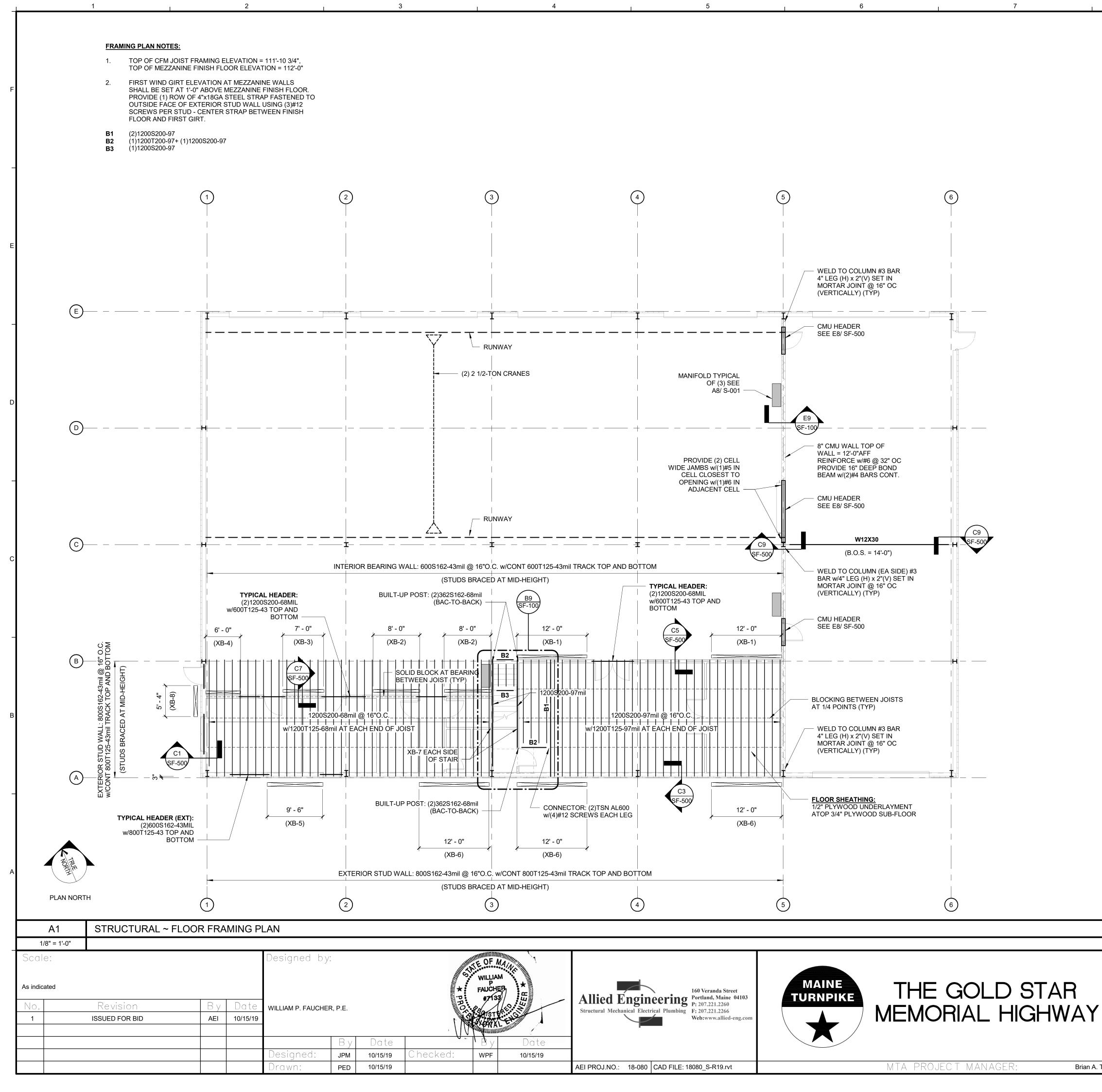
DIMENSIONAL LAYOUT / FOUNDATIONS / PIER SIZES ARE PRELIMINARY. FINAL DIMENSIONS / FOUNDATIONS / PIER SIZES SHALL BE DETERMINED UPON RECEIPT AND APPROVAL OF FINAL PRE-ENGINEERED METAL BUILDING (PEMB) SHOP DRAWING SUBMITTAL PACKAGE INCLUDING MEMBER SIZES AND REACTIONS.

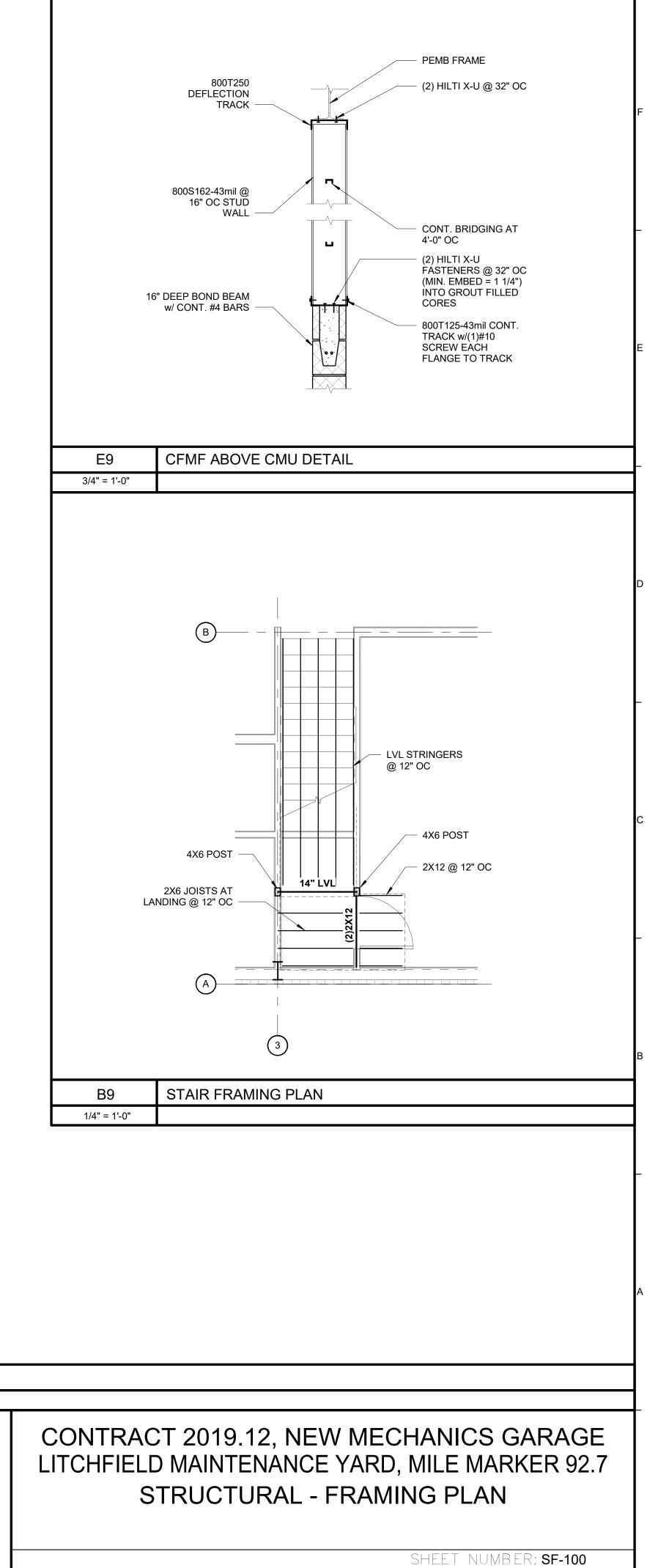
CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 **STRUCTURAL - FOUNDATION PLAN**

CONTRACT: 2019.12 Brian A. Taddeo, P.E.

SHEET NUMBER: SB-100

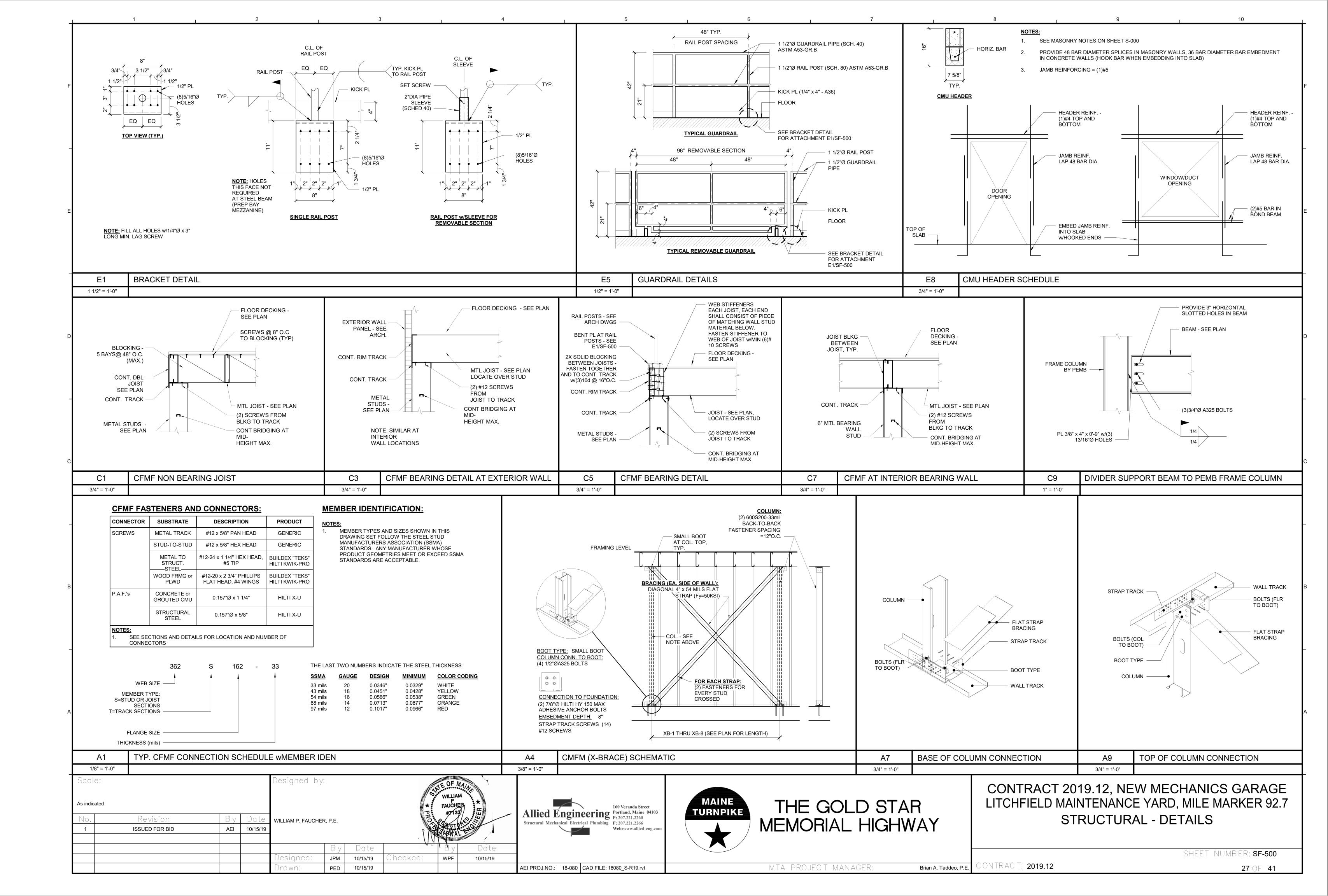






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10



	PIPE ELBOW TURNED DN		GLOBE VALVE	F&T
0	PIPE ELBOW TURNED UP		LOCKABLE BALL VALVE	X
	PIPING TEE DOWN		PLUG VALVE	
	PIPING TEE UP PIPE RISER	——————————————————————————————————————	2-WAY CONTROL VALVE	
)_)	45° ELBOW DOWN	ÿ	3-WAY CONTROL VALVE	G
	PIPING TO BE REMOVED	 	LOCK & SHIELD VALVE	
]	CAPPED PIPING		CHECK VALVE	Ľ —
	CAPPED BELOW FINISHED FLOOR	R	BALANCING VALVE CIRCUIT SETTER	T
	CONCENTRIC REDUCER	Ŵ		
<u> </u>	ECCENTRIC REDUCER		TO SPECIFICATIONS	
>	DIRECTION OF FLOW		STRAINER WITH BLOWDOWN VALVE AND CAP	
	PIPE PITCHES DOWN			DP
	PIPE GUIDE	⊗	EXPANSION VALVE (AUTOMATIC)	
	EXPANSION JOINT		RELIEF/SAFETY VALVE	$H \rightarrow V \rightarrow V \rightarrow V$
X	PIPE ANCHOR	@ ^P	PRESSURE GAUGE WITH COCK	
			SIGHT GLASS	HB/WHYD
	FLANGED CONNECTION BACKFLOW PREVENTER		PRESSURE REDUCING VALVE	O FCO
	FLEXIBLE CONNECTION	FS	FLOW SWITCH	
	SHUT-OFF/ISOLATION VALVE REFER TO SPECIFICATIONS		SELF-CONTAINED TEMP.	
¢	GATE VALVE ~ OUTSIDE SCREW & YOKE (OS&Y)		CONTROL VALVE WITH REMOTE SENSOR	(T)

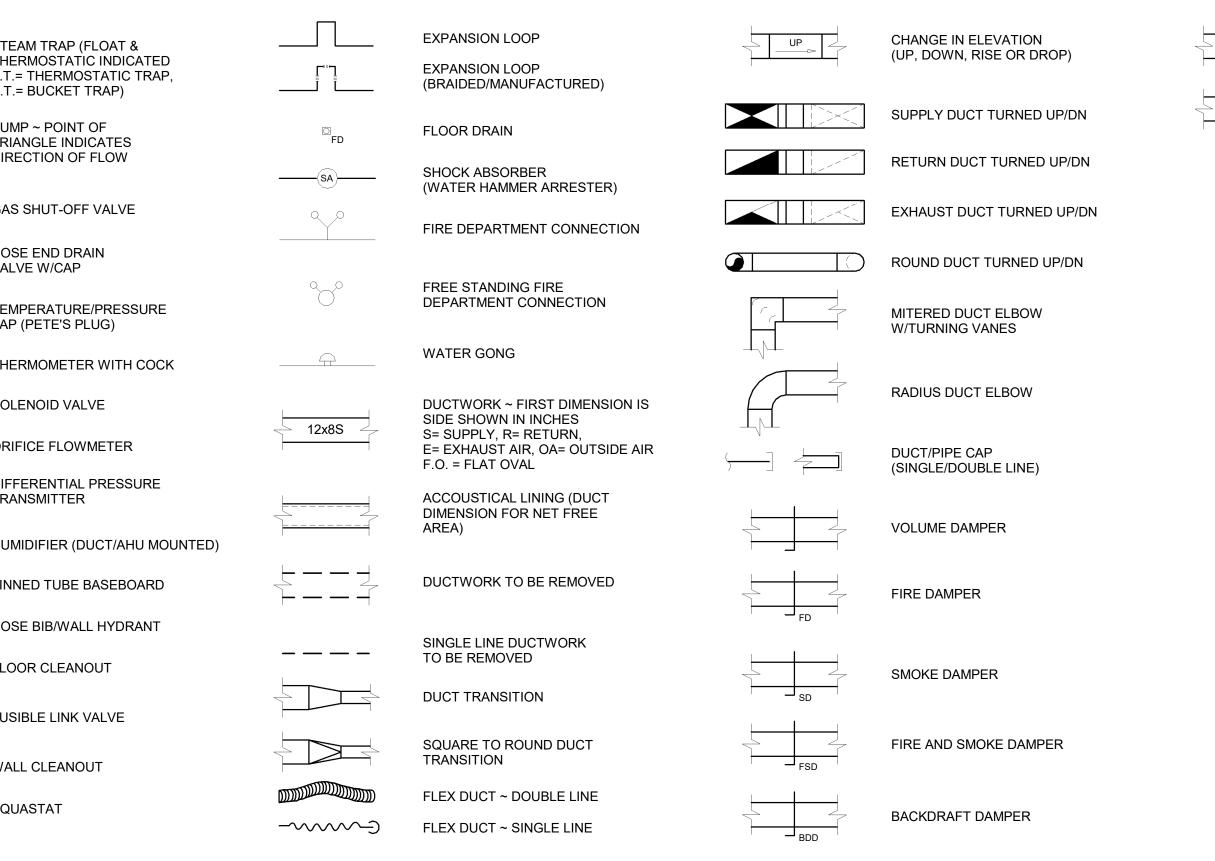
SYMBOLS LEGEND

E1

	NONE											
	AW	ACID WASTE	HPWR	HEAT PUMP WATER RETURN		RAIN WATER - BELOW GRADE	AAV	AUTOMATIC AIR VENT	CNTR	COUNTER; COUNTER TOP	ENC	ENCLOSURE
	ATV	AIR RELIEF	HPWS	HEAT PUMP WATER SUPPLY	RWO	RAIN WATER OVERFLOW - ABOVE FLOOR	AC	ABOVE CEILING	CONN	CONNECT; CONNECTION	ER	EXHAUST REGISTER
	BBD	BOILER BLOWDOWN	——— HPC ———	HIGH PRESSURE CONDENSATE		RAIN WATER OVERFLOW - BELOW GRADE	ACC	AIR COOLED CONDENSER	CONT.	CONTINUE; CONTINUATION	ERU	ENERGY RECOVERY UNIT
	c	CONDENSATE	HPS	HIGH PRESSURE STEAM		SPRINKLER MAIN PIPING	ACU	AIR CONDITIONING UNIT	COORD.	COORDINATE	ESP	EXTERNAL STATIC PRESSURE
		(HVAC DRAIN PAN)	HTWR	HIGH-TEMP HOT WATER RETURN		SOLAR WATER RETURN	ADA	AMERICANS WITH DISABILITIES ACT	CORR	CORRIDOR	ET	EXPANSION TANK
С	CA	COMPRESSED AIR	HWR	HOT WATER RETURN		SOLAR WATER SUPPLY	AD	ACCESS DOOR	CR	CHEMICAL RESISTING	(E)	EXISTING
	 CHWR 	CHILLED WATER RETURN		HOT WATER SUPPLY	— — — TP — — —	TRAP PRIMER - ABOVE FLOOR	AE	ACID EXHAUST	СТ	COOLING TOWER	F&T	FLOAT AND THERMOSTATIC
	CHWS	CHILLED WATER SUPPLY	—— IND ——	INDUSTRIAL WASTE	— — — TP — — —	TRAP PRIMER - BELOW GRADE	AW	ACID WASTE	CTE	CONNECT TO EXISTING	FBO	FURNISHED BY OTHERS
	———— CTR ———	COOLING TOWER RETURN	IW	INDIRECT WASTE	TWR	TEMPERED WATER RETURN	AFF; A.F.F.	ABOVE FINISHED FLOOR	CTR	CENTER	FBP	FACE AND BYPASS
	CTS	COOLING TOWER SUPPLY	LN	LIQUID NITROGEN	TWS	TEMPERED WATER SUPPLY	AHU	AIR HANDLING UNIT	CTRLN	CENTERLINE	FC	FLEXIBLE CONNECTION
	——————————————————————————————————————	CONDENSER WATER RETURN	LOX	LIQUID OXYGEN	— — — V— — —	SANITARY SOIL VENT - ABOVE FLOOR	AP	ACCESS PANEL	CU	COPPER; CONDENSING UNIT	FCO	FLOOR CLEANOUT
_	cws	CONDENSER WATER SUPPLY		LIQUID PETROLEUM GAS	<u> </u>	SANITARY SOIL VENT - BELOW GRADE	APPROX.	APPROXIMATE; APPROXIMATELY	CUH	CABINET UNIT HEATER	FD-#	FLOOR DRAIN TAG
		DOMESTIC COLD WATER	LPR	LOW PRESSURE CONDENSATE	VAC	VACUUM (AIR)	APMR	AS PER MFR'S RECOMMENDATIONS	C.V.	CONTROL VALVE	FD	FIRE DAMPER
		DOMESTIC HOT WATER			VC	VACUUM CLEANING (HOUSE)	ATC	AUTOMATIC TEMPERATURE CONTROL	CW	COLD WATER; CLOCKWISE	FDC	FIRE DEPT. CONNECTION
		DOMESTIC HOT WATER RECIRC.	LPS	LOW PRESSURE STEAM		VACUUM PUMP DISCHARGE	AV	AIR VENT	DB	DRY BULB TEMPERATURE	FIN	FINISH
	D	DRAIN	——— MA ———		W	SANITARY SOIL WASTE - ABOVE FLOOR	BC	BALANCING COCK	DC	DOUBLE CONTAINED	FL; FLR	FLOOR
В	FM	PUMP FORCE MAIN	——— MPR ———	MEDIUM PRESSURE CONDENSATE	<u> </u>	SANITARY SOIL WASTE - BELOW GRADE	BDD	BACKDRAFT DAMPER	DDC	DIRECT DIGITAL CONTROL	FP	FROST/FREEZE PROOF
	FOF	FUEL OIL FILL	——— MPS ———	MEDIUM PRESSURE STEAM	WV	SANITARY WET VENT - ABOVE FLOOR	BG	BLAST GATE	DET	DETAIL	FTG	FOOTING
	FOR	FUEL OIL RETURN	MUW	MAKE-UP WATER	<u> </u>	SANITARY WET VENT - BELOW GRADE	BF	BARRIER FREE	DIA	DIAMETER	FTR	FINNED TUBE RADIATION
	FOS	FUEL OIL SUPPLY	——— N2 ———	NITROGEN			BFP	BACKFLOW PREVENTER	DIC	DOWN IN CHASE	FS	FLOW SWITCH
	——— FOV ———	FUEL OIL TANK VENT	——— NG ———	NATURAL GAS			BHP	BRAKE HORSEPOWER	DIW	DOWN IN WALL	FM	FORCE MAIN
		FEEDWATER	NO				BLDG	BUILDING	DN	DOWN	GC	GENERAL CONTRACTOR
_	——— GR ———	GLYCOL RETURN	——— NPW ———	NON-POTABLE WATER			BOD	BOTTOM OF DUCT	DS	DOWNSPOUT	GPM	GALLONS PER MINUTE
	GS	GLYCOL SUPPLY	OX	OXYGEN			B.T.U.; BTU		DT	DROP AND TRANSITION	GRV	GRAVITY ROOF VENTILATOR
	GW	GREASE WASTE	PC				CONV.	CONVECTOR	DV	DRAIN VALVE	н	HUMIDIFIER
		GEOTHERMAL WATER RETURN	PCWR	PROCESS COLD WATER RETURN			CCW	COUNTER CLOCKWISE	DWG	DRAWING	<u>HB</u>	HOSE BIBB
	GWS	GEOTHERMAL WATER SUPPLY	PCWS	PROCESS COLD WATER SUPPLY			CFF	CAPPED FOR FUTURE	Е	EXHAUST AIR	HC; HDC	HANDICAP ACCESS
	——— н ———	HUMIDIFICATION LINE					CFM	CUBIC FEET PER MINUTE	EF	EXHAUST FAN	HGT; HT	HEIGHT
A	——— H2 ———	HYDROGEN GAS					CLG	CEILING	EG	EXHAUST GRILLE	HP	HEAT PUMP
	HCR	HEAT/COOL RETURN		REFRIGERANT SUCTION			<u>CO</u>	CLEANOUT	ELEV	ELEVATION	HRU	HEAT RECOVERY UNIT
	——— нсs ———	HEAT/COOL SUPPLY	RO	REVERSE OSMOSIS WATER			СМ	CONSTRUCTION MANAGER	ELONG	ELONGATE	HTR	HEATER
				RAIN WATER - ABOVE FLOOR								
	A 4											

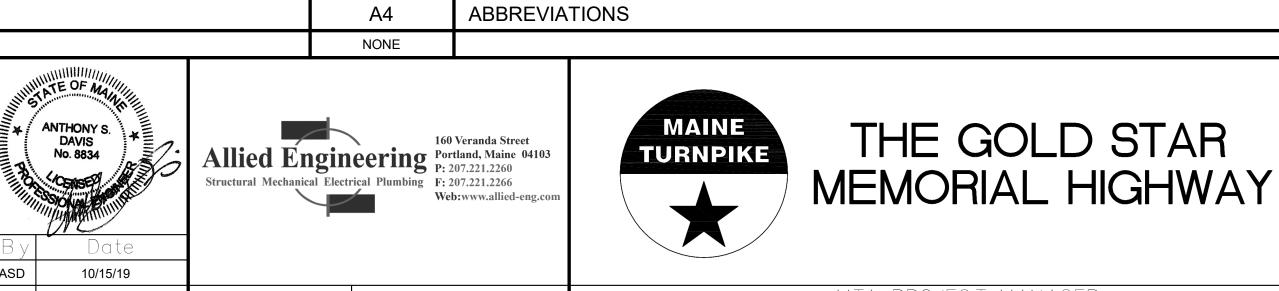
	A1	PIPING LINETYPE LEGEND										
١	IONE											
Scal	e:				Designed by	•						
12" = 1'	-0"											
N.L												
No.		Revision	Ву	Date	ANTHONY DAVIS, P.E	Ξ.						
1		ISSUED FOR BID	AEI	10/15/19								
						Вy	Date		В			
					Designed:	HAG	10/15/19	Checked:	ASE			
					Drawn:	REW	10/15/19					

4	1	



6

5



AEI PROJ.NO.: 18-080 CAD FILE:

MTA PROJECT MANAGER:

	MOTORIZED DAMPER			<u>REGISTER, GR</u> —DIFFUSER, REG					
	FLEXIBLE CONNECTION		S1 1 100	—QUANTITY —CFM AIR FLOW					
\overline{T} \overline{S}	TEMPERATURE SENSOR OR THERMOSTAT (AS SPECIFIED)		FT-1	FINTUBE TAG FINTUBE No. LENGTH	TUBE No.				
(\underline{H})	HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED)		2.1	-GPM					
Co2	CARBON DIOXIDE SENSOR		VAV-1	<u>VAV TAG</u> —VAV No. —MINIMUM CFM					
Co	CARBON MONOXIDE SENSOR		350 - 2.1 -						
AP	ACCESS PANEL		_	EQUIPMENT TA					
DSD	DUCT SMOKE DETECTOR		AHU 1	—TYPE DESIGNA —NUMBER	TOR				
(EF				<u>EQUIPMENT TAG</u> (ON FLOOR/ROOF ABOVE) —TYPE DESIGNATOR					
() <u>SF-</u>	ROOFTOP SUPPLY FAN		<u>1</u> /						
\square	CEILING DIFFUSER ~ 4-WAY BLOW			DETAIL REFER	ENCE SYMBOL				
	CEILING DIFFUSER ~ 3-WAY BLOW		A1	—SHEET DETAIL	LOCATED ON				
	CEILING DIFFUSER ~ 2-WAY BLOW								
	CEILING DIFFUSER ~ CORNER BLOW		A1	SECTION REFE SECTION No.	RENCE SYMBO	<u>DL</u>			
	CEILING RETURN GRILLE		MH-500	-SHEET SECTIO	N LOCATED OI	N			
\square	CEILING EXHAUST GRILLE								
\bullet	POINT OF CONNECTION - EXISTING TO NEW				ALL GENERAL I	NOTE NOTES, SYMBOL LEGENDS			
-	DIRECTION OF AIR FLOW			A D Sł	ND DETAILS A PPLICABLE TC RAWINGS FOR AND ABBREVI HEET ARE FOR DT INDICATE T	RE TO BE CONSIDERED AS ALL PLUMBING AND HVAC THIS PROJECT. SYMBOLS ATIONS SHOWN ON THIS REFERENCE ONLY AND DO HEIR INCORPORATION INTO THE DESIGN.			
H&V	HEATING AND VENTILATION	NPT	NATIONAL PIPE	THREAD	SQ. FT; SF				
HVAC HW	HEATING, VENTILATING AND AIR COND. HOT WATER	NTS OA	NOT TO SCALE OUTSIDE AIR		SR S/O	SUPPLY REGISTER SHUT-OFF			
HWR	HOT WATER RETURN	OBD	OPPOSED BLAD	E DAMPER	S.S.	STAINLESS STEEL			
HWR HWS	HOT WATER SUPPLY	OD			TD	TRENCH DRAIN			
HX	HEAT EXCHANGER	0ED <u>P-#</u>	OPEN ENDED DU		TG	TRANSFER GRILLE			
ID	INSIDE DIAMETER	<u></u> PD			TOD	TOP OF DUCT			
IN WG	INCHES WATER GAUGE	PP	PROCESS PIPIN	-	<u>TP</u>	TRAP PRIMER			
INCL.	INCLUDING	PRS	PRESSURE RED		TSP	TOTAL STATIC PRESSURE			
INV. EL.	INVERT ELEVATION	PRV	PRESSURE RED		TTS	TIGHT TO STEEL			
IPS	IRON PIPE SIZE	R	RETURN AIR	_	TV	TURNING VANE			
<u>KE-#</u>	KITCHEN EQUIPMENT NUMBER	RD	ROOF DRAIN		TW	TEMPERED WATER			
LD	LINEAR DIFFUSER	REC	RECOMMENDATION		TYP	TYPICAL			
<u>LE-#</u>	SCIENCE LAB EQUIPMENT NUMBER	REG	REGULAR		UH	UNIT HEATER			
LP	LIQUID PETROLEUM GAS	RF	RETURN FAN		UIC	UP IN CHASE			
LPR	LOW PRESSURE STEAM RETURN	RG	RETURN GRILLE	E	UIW	UP IN WALL			
LPS	LOW PRESSURE STEAM SUPPLY	RHC	REHEAT COIL		UV	UNIT VENTILATOR			
MAX	MAXIMUM	RM	ROOM		V	VENT			
MBH	1000 BTUH/hr.	RPZ	REDUCED PRES	SURE BFP	V VAC	VENT			

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 PLUMBING AND HVAC NOTES, LEGEND AND ABBREVIATIONS

RETURN REGISTER

(" ") AS INDICATED

SMOKE DAMPER

SUPPLY FAN

SINGLE

SHEET

SPRINKLER

SUPPLY GRILLE

SELF-CONTAINED VALVE

SHOCK ABSORBER OF PDI SIZE

RELIEF VALVE

RAIN WATER

SUPPLY AIR

RR

RV

RW

SA-" "

SCV

SD

SF

SG

SGL

SHT

SPLR

CONTRACT: 2019.12 Brian A. Taddeo, P.E.

MFR

MIN

MOD

MPG

MPV

MTD

MTG

MUA

N.C.

N.O.

NG

NIC

MINIMUM

MOUNTED

MOUNTING

MAKE UP AIR

NORMALLY CLOSED

NORMALLY OPEN

NOT IN CONTRACT

NATURAL GAS

MANUFACTURER

MOTOR OPERATED DAMPER

MEDIUM PRESSURE GAS

MULTI-PURPOSE VALVE

SHEET NUMBER: **P-000**

VB

VCFF

VD

VLV

VS

VTR

W

W/

WE

WCO

WF

WHYD

VALVE

WASTE

WITH

VENT STACK

VENT TO ROOF

WALL CLEANOUT

WATER HEATER

WALL HYDRANT

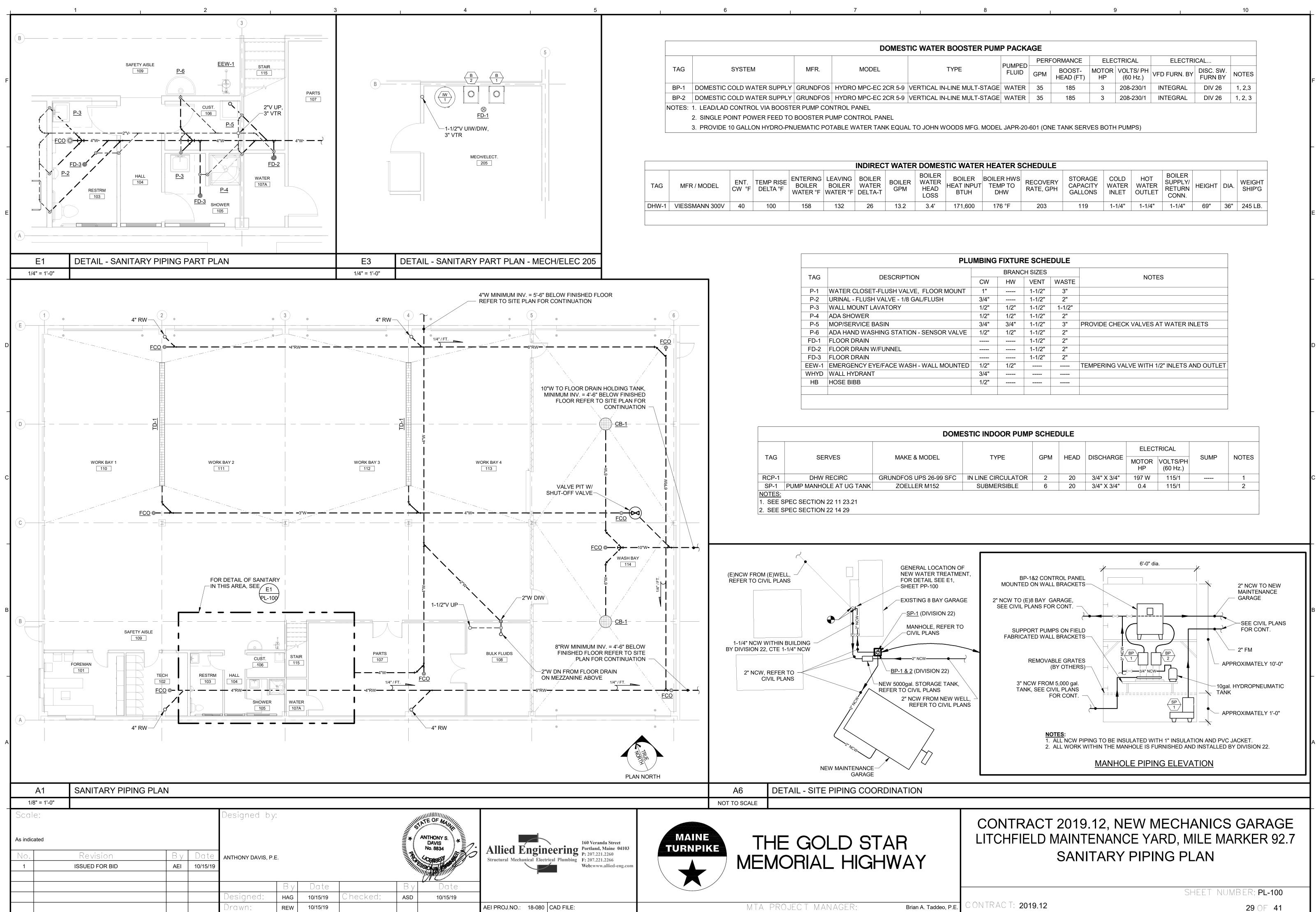
VACUUM BREAKER

VALVE & CAP FOR FUTURE

VOLUME DAMPER - MANUAL

WET BULB TEMPERATURE, °F

10



8	

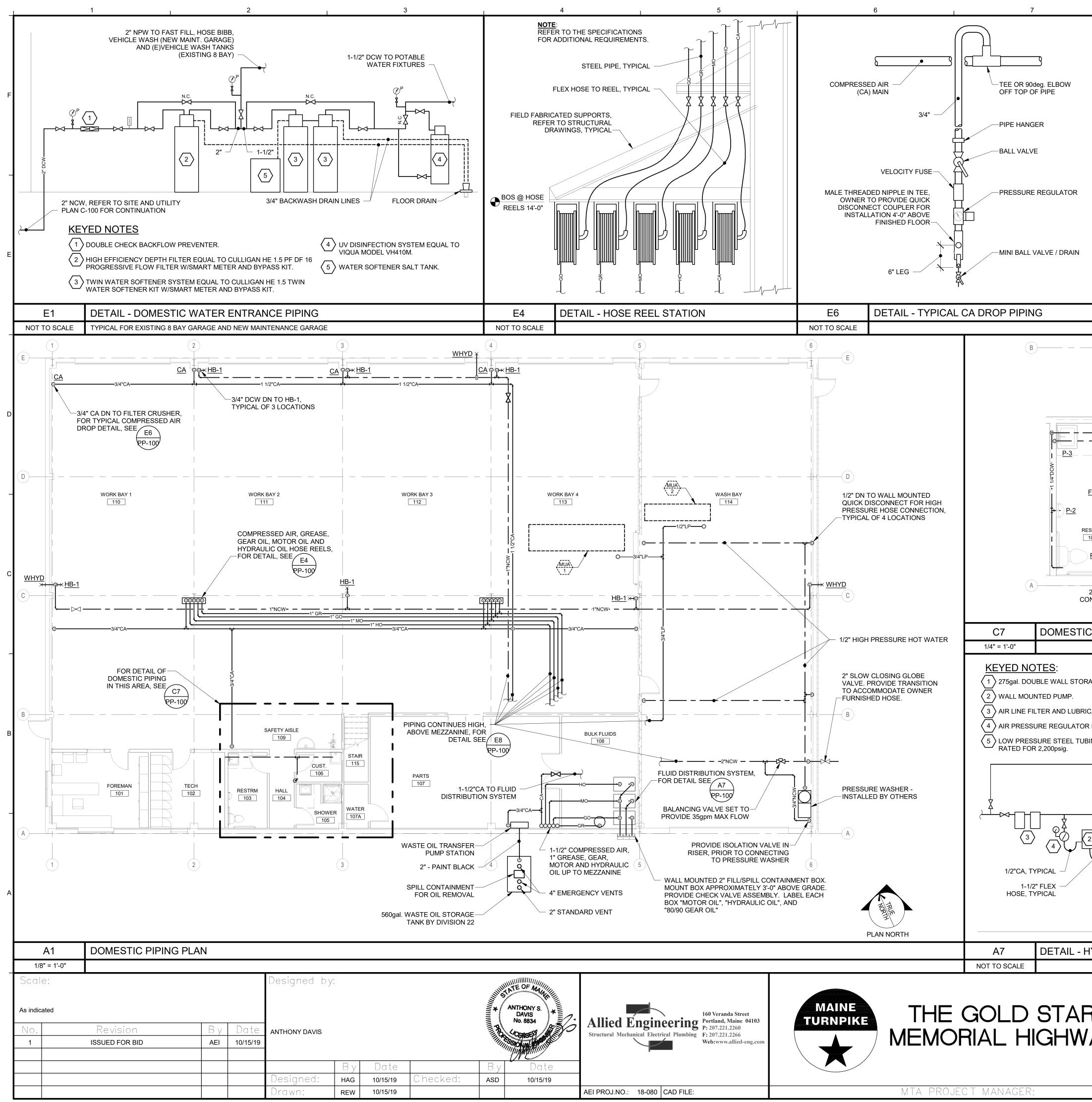
ESTIC WATER BOOSTER PUMP PACKAGE											
		PUMPED	PERFORMANCE		ELECTRICAL		ELECTRI				
	TYPE	FLUID	GPM	BOOST- HEAD (FT)	MOTOR HP	VOLTS/ PH (60 Hz.)	VFD FURN. BY	DISC. SW. FURN BY	NOTES		
5-9	VERTICAL IN-LINE MULT-STAGE	WATER	35	185	3	208-230/1	INTEGRAL	DIV 26	1, 2,3		
5-9	VERTICAL IN-LINE MULT-STAGE	WATER	35	185	3	208-230/1	INTEGRAL	DIV 26	1, 2, 3		

ILER PM	BOILER WATER HEAD LOSS	BOILER HEAT INPUT BTUH	BOILER HWS TEMP TO DHW	RECOVERY RATE, GPH	STORAGE CAPACITY GALLONS	COLD WATER INLET	HOT WATER OUTLET	BOILER SUPPLY/ RETURN CONN.	HEIGHT	DIA.	WEIGHT SHIP'G	
3.2	3.4'	171,600	176 °F	203	119	1-1/4"	1-1/4"	1-1/4"	69"	36"	245 LB.	
												í.

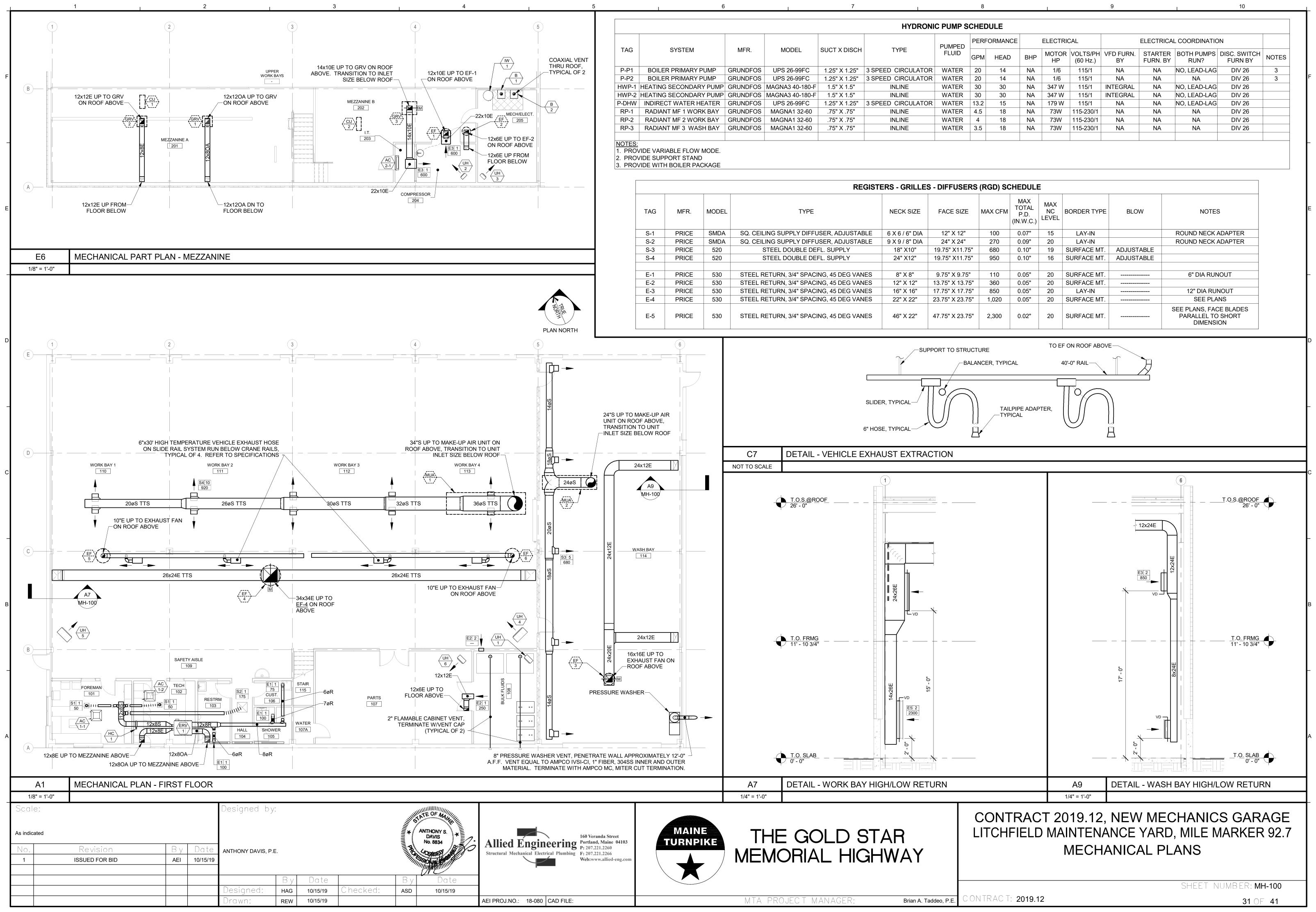
PLU	JMBING	FIXTUR	RE SCHE	DULE	
		BRANC	H SIZES		NOTEO
IPTION	CW HW		VENT	WASTE	NOTES
ALVE, FLOOR MOUNT	1"		1-1/2"	3"	
1/8 GAL/FLUSH	3/4"		1-1/2"	2"	
,	1/2"	1/2"	1-1/2"	1-1/2"	
	1/2"	1/2"	1-1/2"	2"	
	3/4"	3/4"	1-1/2"	3"	PROVIDE CHECK VALVES AT WATER INLETS
TION - SENSOR VALVE	1/2"	1/2"	1-1/2"	2"	
			1-1/2"	2"	
-			1-1/2"	2"	
			1-1/2"	2"	
VASH - WALL MOUNTED	1/2"	1/2"			TEMPERING VALVE WITH 1/2" INLETS AND OUTLET
	3/4"				
	1/2"				

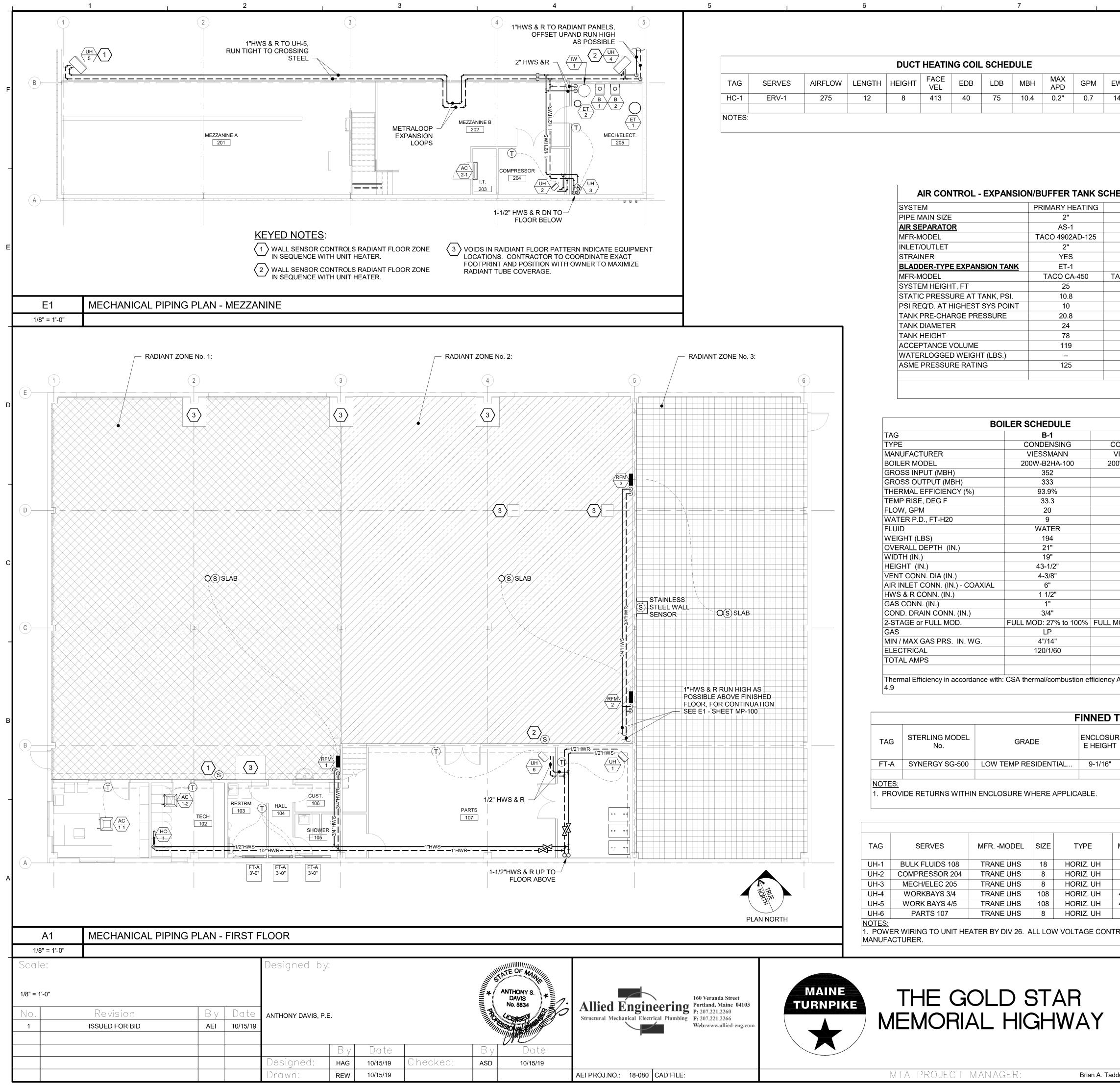
DOMESTIC INDOOR PUMP SCHEDULE												
IAKE & MODEL			HEAD		ELECT	RICAL	SUMP	NOTES				
	TYPE	GPM		DISCHARGE	MOTOR HP	VOLTS/PH (60 Hz.)						
FOS UPS 26-99 SFC	IN LINE CIRCULATOR	2	20	3/4" X 3/4"	197 W	115/1		1				
OELLER M152	SUBMERSIBLE	6	20	3/4" X 3/4"	0.4	115/1		2				

}		
Α	Y	



		(3)	5	
		1-1/2" DCW UP FROM	1-1/2"CA TO WORK BAYS,	
		1" NCW TO WORK BAYS, RUN HIGH AS POSSIBLE —	$ \begin{array}{c} - \text{RUN HIGH AS POSSIBLE} \\ \hline \\ \hline \\ \hline \\ \end{array} \end{array} $	FOR BOILER PIPING DETAIL, SEE
	(B)			MH-500'
			LP S OF CET SIA"LP C	
		2"NCW		,
		MEZZANINE B I.T. 202 203	COMPRESSOR	
	(A)			-
		- 1"DHW,1/2" DHWR & 1" LP DN	1-1/2" COMPRESSED AIR GREASE, GEAR, MOTOR	
		└── 3/4"CA TO HYDRAULIC HOSE MAKE-UP STATION	OIL DN	
	E8	DOMESTIC PIPING PART PLA	N - MEZZANINE LEVEL	
	1/8" = 1'-0			
				_
	045	EEW-1 STAIR	1-1/2" DCW TO POTABLE W FIXTURES AND WATER HE	
		TY AISLE P-6		
		P-5	2" NCW TO HOSE BIBBS, F/	AST FILL D
		"DCW	V PARTS	
\ <				
<u>FD-3</u>			FD-2	
&		<u>НВ</u> <u>Н</u> <u>11/2"DСМ</u>	1/2" DHWR UP TO MEZZANIN	
STRM		₩ <u>FD-3</u>	1" LP UP TO MEZZANINE	
<u>P-1</u>		SHOWER SALT TANK	TWIN SOFTENERS	
		2" CW	ل ل	C
		TRANCE PIPING DETAIL, SEE	REGULATOR SET @2psi TO BUILDING	
	ING PART	PLAN - FIRST FLOOR		
	NK WITH LEAK	DETECTION. $\langle 6 \rangle$ 1,000psi THERMAL RELIEF VALV	E WITH DRAIN	27 (9)
		$\sqrt{7}$ 120lb DRUM (BY OWNER) WITH	\sim	<u></u>
	I. L TO LINCOLN II	$\sqrt{8}$ 8,000psi THERMAL RELIEF VALV	E W/DRAIN EQUAL TO SUN MFG.	
	TTINGS, VALVE	RATED FOR 10,000psig.		B
	 		ATMOSPHERE	
Γ			1-1/2"V	
	1" CA—			
2	12"			
	، اُر			
				EXTERIOR
	HYDRAULIO	C MOTOR OIL	GEAR 35ga OIL GREA	al. A
IYDR	AULIC/FUE	EL OIL STORAGE TANK AND PUMP	PIPING	
			•	
1	,		STIC PIPING PLAN	
'A)	ſ			
			Sheet n	UMBER: PP-100
Brian	A. Taddeo, P.E.	CONTRACT: 2019.12		30 OF 41





GPM	EWT	LWT	MAX WPD
0.7	140	110	3'

ANK S	CHEDULE	
ATING	DHW	
	NA	
	NA	
D-125	NA	
	NA	
	NA	
	ET-2	
450	TACO PAX-30	
	25	
	10.8	
	5	
	15.8	
	14	
	25	
	8	
	150	

	B-2
	CONDENSING
	VIESSMANN
	200W-B2HA-100
	352
	333
	93.9%
	33.3
	20
	9
	WATER
	194
	21"
	19"
	43-1/2"
	4-3/8"
	6"
	1 1/2"
	1"
	3/4"
0%	FULL MOD: 27% to 100%
	LP
	4"/14"
	120/1/60
on ef	fficiency ANSI Z21,13/CSA

UNIT	AC-2-1
SERVES	IT
COOLING BTUH	12,000
COOLING BTUH, MINIMUM	5,800
HEATING AT 47F	
HEATING AT 5F	
REFRIGERANT	R410A
SEER	21.0
INDOOR UNIT:	WALL MOUNT
MITSUBISHI MODEL NO.	PKA-A12HA7
WEIGHT, LBS.	29
CFM	335
EXT. SP, IN. WC.	0"
VOLTAGE/PHASE	208/1
MCA	1.0
OUTDOOR COND. UNIT:	CU-2
MITSUBISHI MODEL NO.	PUY-A12NKA7-BS
WEIGHT, LBS.	92
LIQUID LINE SIZE	1/4"
HOT GAS LINE SIZE	1/2"
VOLTAGE/PHASE	208/1
MCA	11
MOCP	28
NOTES	1, 2, 3

1.POWER TO CO'S BY DIV 26. WIRING BETWEEN AC/CU PROVIDED BY DIV 23. TO THE ELECTRIC HEATER.

2.PROVIDE WIND BAFFLE OPTION; 100% CAPACITY COOLING SHALL BE AVAILABLE AT -20F OUTDOORS.

3.PROVIDE 3-POLE FUSED DISCONNECT SWITCH.

INDOOR UNITS	AC-1-1	AC-1-2						
SERVES	FOREMAN 101	TECH 102						
ARRANGEMENT	CEILING CASSETTE	CEILING CASSETTE						
COOLING BTUH	9,145	9,145						
HEATING BTUH @ 47F	9,838	9,838						
HEATING BTUH @ -5F								
MITSUBISHI MODEL NO.	SLZ-KF09NA	SLZ-KF09NA						
DIMENSIONS - H X W X D	9 1/4" X 22 7/16" X 22 7/16"	9 1/4" X 22 7/16" X 22 7/16"						
WEIGHT, LBS.	36	36						
CFM	320	320						
ELECTRICAL	208/230-1	208/230-1						
ELECTRICAL, MCA	.23 A	.23 A						
COND. DRAIN SIZE	3/4"	3/4"						
LIQUID LINE SIZE	1/4"	1/4"						
GAS LINE SIZE	3/8"	3/8"						
OUTDOOR COND. UNIT:	CU-1							
MITSUBISHI COND UNIT MODEL NO.	MXZ-2C20	NAHZ2-U1						
BRANCH SELECTOR BOX (BSB)	N	IA						
COOLING BTUH	20,	000						
HEATING BTUH		000						
REFRIGERANT	R4	10A						
ELECTRICAL	208	/230						
MCA	17	7.2						
МОР	2	20						
SOUND dBA - HIGH	5	50						
DIMENSIONS (H x W x D)	27 15/16" X 3	33 1/16" X 13"						
WEIGHT, LBS.	66							

FINNED TUBE RADIATION SCHEDULE (HOT WATER)

ENCLOSUR E HEIGHT	MOUNTING HEIGHT, TOP OF ENCLOSURE	DEPTH FROM WALL	No. OF TIERS	BTU / FT	GPM	AWT	EAT	ELEMENT	FIN DIMENSION S	FINS/FT	NOTES
9-1/16"	9-1/16"	3-13/16"	1	567	1.0	150	70	3/4"	3-1/4" SQ.	51	

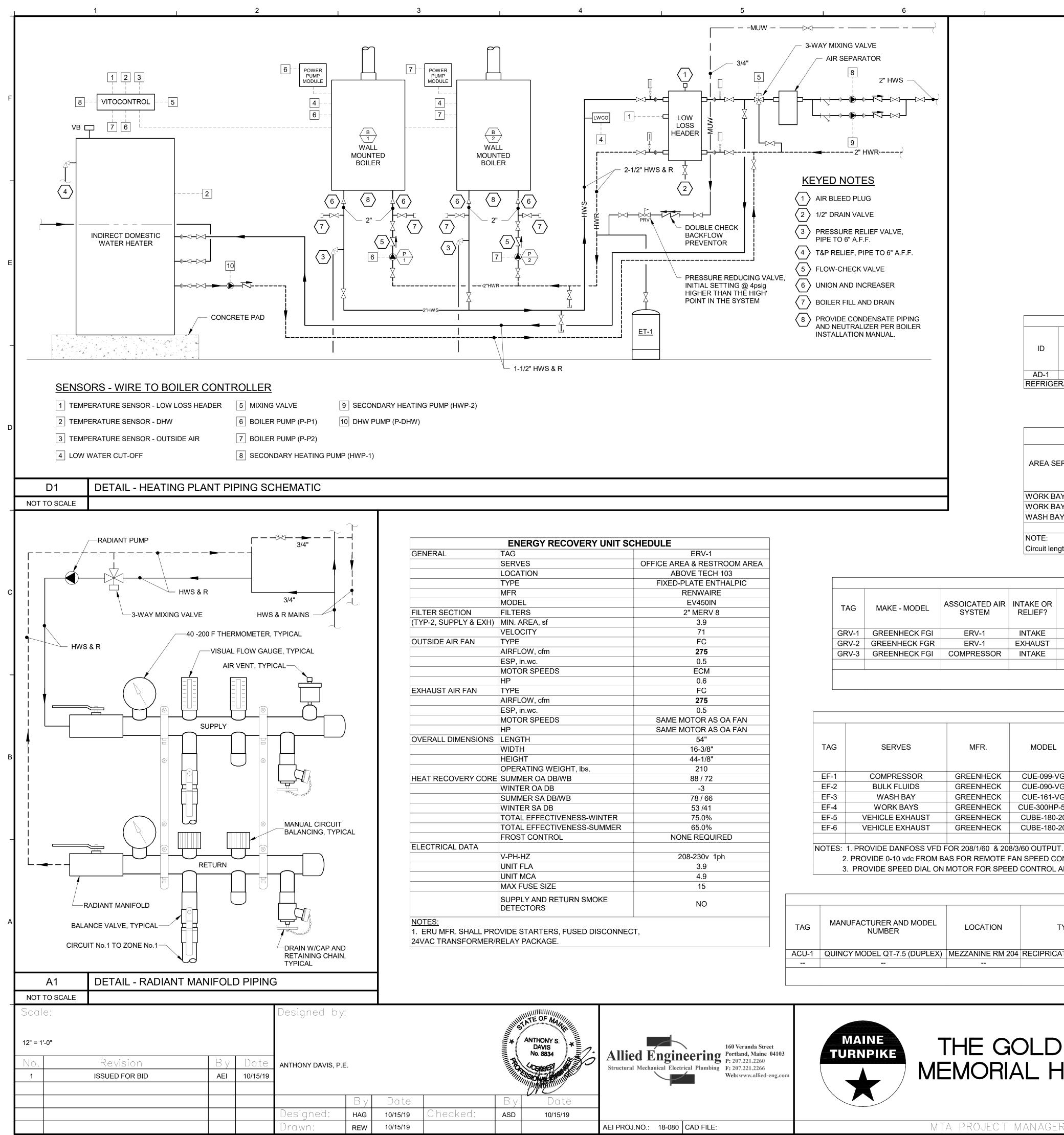
	UNIT HEATER SCHEDULE													
TYPE	MBH	CFM	EAT (DEGF)	LAT (DEGF)	GPM	FLUID	EWT	LWT	MOTOR TYPE	MOTOR HP	ELECT	MAX WPD		NOTES
ORIZ. UH	9.5	500	60	77.6	0.5	WATER	140	110.0	TEAO	16W	120-1-60	0.3	2-WAY	1
oriz. Uh	4.1	245	60	75.5	0.5	WATER	140	110.0	TEAO	16 W	120-1-60	0.3	2-WAY	1
ORIZ. UH	4.1	245	60	75.5	0.5	WATER	140	110.0	TEAO	16 W	120-1-60	0.3	2-WAY	1
ORIZ. UH	41.6	1,800	60	81.4	5.0	WATER	140	110.0	TEAO	1/12 HP	120-1-60	0.14	2-WAY	1
ORIZ. UH	41.6	1,800	60	81.4	5.0	WATER	140	110.0	TEAO	1/12 HP	120-1-60	0.14	2-WAY	1
ORIZ. UH	4.1	245	60	75.5	0.5	WATER	140	110.0	TEAO	16 W	120-1-60	0.3	2-WAY	1
	4.1	245	60	/5.5	0.5	WATER	140	110.0	TEAO	16 W	120-1-60	0.3	2-WAY	1

1. POWER WIRING TO UNIT HEATER BY DIV 26. ALL LOW VOLTAGE CONTROL WIRING, THERMOSTAT, RELAYS, AND TRANFORMERS BY DIV. 23. DISCONNECT SWITCH: PROVIDE BY UNIT HEATER

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 MECHANICAL PIPING PLANS

CONTRACT: 2019.12 Brian A. Taddeo, P.E.

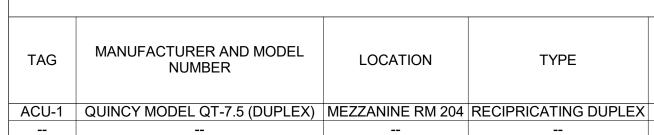
SHEET NUMBER: MP-100



MTA PROJECT MANAGER:



THE GOLD STAR MEMORIAL HIGHWAY



2. PROVIDE 0-10 vdc FROM BAS FOR REMOTE FAN SPEED CONTROL AND AIR BALANCE. 3. PROVIDE SPEED DIAL ON MOTOR FOR SPEED CONTROL AND AIR BALANCE.

	FAN SCHEDULE															
TAG	SERVES	MFR.	MODEL	TYPE	DRIVE	CFM	SP (IN. WC.)	MOTOR HP	MOTOR TYPE	SPEED CONTROL	DISC. SWITCH FURN BY	VOLTS/P H	MAX SONES	WEIGHT (LBS.)	DAMPER	NOTES
EF-1	COMPRESSOR	GREENHECK	CUE-099-VG	UPBLAST	DIRECT	600	0.5"	1/4	ECM	YES	FAN MFR	120/1/60	6.7	42	MOD	
EF-2	BULK FLUIDS	GREENHECK	CUE-090-VG	UPBLAST	DIRECT	250	0.5"	1/10	ECM	YES	FAN MFR	120/1/60	6.2	35	MOD	
EF-3	WASH BAY	GREENHECK	CUE-161-VG	UPBLAST	DIRECT	3,400	.75"	2	ECM	YES	FAN MFR	208/1/60	19.0	125	MOD	
EF-4	WORK BAYS	GREENHECK	CUE-300HP-50	UPBLAST	BELT	9,200	.75"	5	TEFC	YES - VFD	FAN MFR	208/3/60	26.0	325	MOD	1, 2
EF-5	VEHICLE EXHAUST	GREENHECK	CUBE-180-20	UPBLAST	BELT	1,200	2.2	2	TEFC	NO	FAN MFR	240/1/60	21.0	144	MOD	
EF-6	VEHICLE EXHAUST	GREENHECK	CUBE-180-20	UPBLAST	BELT	1,200	2.2	2	TEFC	NO	FAN MFR	240/1/60	21.0	144	MOD	

				HOOD DIMENSIONS			THROAT DIMENSIONS						WEIGHT	ROOF
MAKE - MODEL	SYSTEM	RELIEF?	CFM	LENGTH (in.)	WIDTH (in.)	HEIGHT (in.)	LENGTH (in.)	WIDTH (in.)	MIN. FREE AREA (SF)	TIERS	MAX P.D. MAX W.C.	SCREEN	LBS	CURB
GREENHECK FGI	ERV-1	INTAKE	275	24	22	14	12.0	12	1.0	NA	.013	SEE SPEC	82	30"
GREENHECK FGR	ERV-1	EXHAUST	275	24	22	14	12.0	12	1.0	NA	.013	SEE SPEC	82	30"
GREENHECK FGI	COMPRESSOR	INTAKE	600	36	28	16	18.0	18	2.25	NA	.012	SEE SPEC	55	30"
	GREENHECK FGR	GREENHECK FGI ERV-1 GREENHECK FGR ERV-1	SYSTEMRELIEF?GREENHECK FGIERV-1INTAKEGREENHECK FGRERV-1EXHAUST	MAKE - MODELSYSTEMRELIEF?CFMGREENHECK FGIERV-1INTAKE275GREENHECK FGRERV-1EXHAUST275	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)GREENHECK FGIERV-1INTAKE27524GREENHECK FGRERV-1EXHAUST27524	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)GREENHECK FGIERV-1INTAKE2752422GREENHECK FGRERV-1EXHAUST2752422	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)HEIGHT (in.)GREENHECK FGIERV-1INTAKE275242214GREENHECK FGRERV-1EXHAUST275242214	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)HEIGHT (in.)LENGTH (in.)GREENHECK FGIERV-1INTAKE27524221412.0GREENHECK FGRERV-1EXHAUST27524221412.0	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)HEIGHT (in.)LENGTH (in.)WIDTH (in.)GREENHECK FGIERV-1INTAKE27524221412.012GREENHECK FGRERV-1EXHAUST27524221412.012	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)HEIGHT (in.)LENGTH (in.)WIDTH (in.)MIN. FREE AREA (SF)GREENHECK FGIERV-1INTAKE27524221412.0121.0GREENHECK FGRERV-1EXHAUST27524221412.0121.0	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)HEIGHT (in.)LENGTH (in.)WIDTH (in.)MIN. FREE AREA (SF)NUMBERS OF TIERSGREENHECK FGIERV-1INTAKE27524221412.0121.0NAGREENHECK FGRERV-1EXHAUST27524221412.0121.0NA	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)HEIGHT (in.)LENGTH (in.)WIDTH (in.)MIN. FREE AREA (SF)NUMBERS OF TIERSMAX P.D. MAX W.C.GREENHECK FGIERV-1INTAKE27524221412.0121.0NA.013GREENHECK FGRERV-1EXHAUST27524221412.0121.0NA.013	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH (in.)WIDTH (in.)HEIGHT (in.)LENGTH (in.)WIDTH (in.)MIN. FREE AREA (SF)NUMBERS OF TIERSMAX P.D. MAX W.C.SCREENGREENHECK FGIERV-1INTAKE27524221412.0121.0NA.013SEE SPECGREENHECK FGRERV-1EXHAUST27524221412.0121.0NA.013SEE SPEC	MAKE - MODELASSOICATED AIR SYSTEMINTAKE OR RELIEF?CFMLENGTH UIDTH (in.)HEIGHT (in.)LENGTH (in.)WIDTH (in.)MIN. FREE AREA (SF)NUMBERS OF TIERSMAX P.D. MAX W.C.SCREENWEIGHT LBSGREENHECK FGIERV-1INTAKE27524221412.0121.0NA.013SEE SPEC82GREENHECK FGRERV-1EXHAUST27524221412.0121.0NA.013SEE SPEC82

	GRAVITY ROOF VENTILATOR SCHEDULE													
KE - MODEL ASSOICATED AIR SYSTEM	INTAKE OR		HO		ONS	THF	THROAT DIMENSIONS			MAX P.D.		WEIGHT	ROOF	
		RELIEF?	CFM	LENGTH (in.)	WIDTH (in.)	HEIGHT (in.)	LENGTH (in.)	WIDTH (in.)	MIN. FREE AREA (SF)	NUMBERS OF TIERS	MAX W.C.	SCREEN	LBS	CURB
ENHECK FGI	ERV-1	INTAKE	275	24	22	14	12.0	12	1.0	NA	.013	SEE SPEC	82	30"
ENHECK FGR	ERV-1	EXHAUST	275	24	22	14	12.0	12	1.0	NA	.013	SEE SPEC	82	30"
ENHECK FGI	COMPRESSOR	INTAKE	600	36	28	16	18.0	18	2.25	NA	.012	SEE SPEC	55	30"

NOTE:

WORK BAYS 1 & 2 / RFM-1 WORK BAYS 3 & 4 / RFM-2 WASH BAY / RFM-3

AREA SERVED / MANIFOLD NO.

REFRIGERANT: R134a

ENERGY RECOVERY UNIT SO	CHEDULE
G	ERV-1
RVES	OFFICE AREA & RESTROOM AREA
CATION	ABOVE TECH 103
PE	FIXED-PLATE ENTHALPIC
R	RENWAIRE
DEL	EV450IN
TERS	2" MERV 8
N. AREA, sf	3.9
LOCITY	71
PE	FC
RFLOW, cfm	275
P, in.wc.	0.5
DTOR SPEEDS	ECM
	0.6
PE	FC
RFLOW, cfm	275
P, in.wc.	0.5
DTOR SPEEDS	SAME MOTOR AS OA FAN
	SAME MOTOR AS OA FAN
NGTH	54"
DTH	16-3/8"
IGHT	44-1/8"
PERATING WEIGHT, lbs.	210
MMER OA DB/WB	88 / 72
NTER OA DB	-3
MMER SA DB/WB	78 / 66
NTER SA DB	53 /41
TAL EFFECTIVENESS-WINTER	75.0%
TAL EFFECTIVENESS-SUMMER	65.0%
OST CONTROL	NONE REQUIRED
PH-HZ	208-230v 1ph
IIT FLA	3.9
IIT MCA	4.9
X FUSE SIZE	15
PPLY AND RETURN SMOKE TECTORS	NO
DE STARTERS, FUSED DISCONNEC AY PACKAGE.	ст,

INDOOR UNIT:	MUA-1	MUA-2
MANUFACTURER	GREENHECK	GREENHECK
DESCRIPTION	ROOF TOP DIRECT FIRED	ROOF TOP DIRECT FIRED
MODEL	DGX-P127-H32-MF	DGX-P112-H12-MF
WEIGHT (w/ Curb)	1,750	715
AIRFLOW, cfm	9,200	3,400
MIN. AIRFLOW, cfm	3,200	
ESP, in.wc.	1.2	1.2
HP	7.5	3
RPM	1,118	1,759
HEATING		
FUEL	LP GAS	LP GAS
TEMP RISE, deg-F.	65	70
INPUT (MBH)	700	250
OUTPUT (MBH)	640	220
EFFICIENCY	90%	90%
TURNDOWN	Full Mod down to 40%	Full Mod down to 40%
FILTERS	2" Pleated MERV 8	2" Pleated MERV 8
ELECTRICAL		
VOLTAGE/HZ/PHASE	208/1	208/1
STARTER TYPE	Note 1	Note 1
MCA/MOP	57.5 / 100	24 / 40

AIR DRYER SCHEDULE

					COMPRE	SSOR	WEIGHT	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW @ 100F @ 37 F DP (CFM)	DRAIN CONN. (IN.)	FULL LOAD (KW)	VOLT/PH	LBS	NOTES
AD-1	QUINCY MODEL - QPNC-50	MEZZANINE RM 204	50	1/2	0.4	115/60/1	80	

RADIANT FLOOR CIRCUIT SCHEDULE

.D	CIRCUIT QUANTITY	FLOOR AREA (sf)	UNIT HEAT (BTU/hr)	LENGTH (ft) (Circuit + Tail)	FLOW RATE (gal/min)	HEAD LOSS (Ft of water)	SUPPLY TEMP (° F)	MAX. SURFACE TEMP (°F)	DESIGN TEMP DROP (°F)	TUBE SPACING (in)	TUBE SIZE
	9	3,200	38400	400	4.40	2.00	92	80	20	12	5/8"
	8	2,928	35100	400	4.00	2.00	92	80	20	12	5/8"
	7	2,277	27500	375	3.10	2.00	92	80	20	12	5/8"

Circuit lengths, tubing and manifold are based on WATTS Radiant Design (Emerson Swan, Inc.). Total Boiler Load = 114,300 BTUh, Total Volume = 125 gallons.

AIR COMPRESSOR SCHEDULE

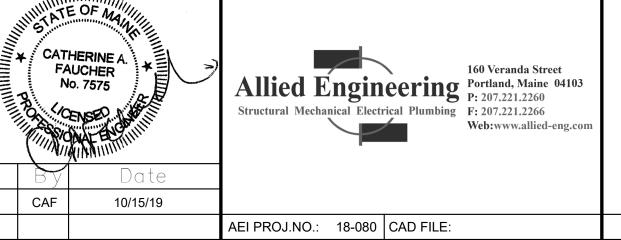
		RE	CEIVER		ELECTR	ICAL		PHYS	SICAL	
FLOW EA. PUMP (ACFM)	PUMP PRESS. (PSIG)	SIZE (GAL.)	RECEIVER TYPE	MOTOR(S)	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLT/PH	LENGTH/ WIDTH/ HEIGHT (IN)	WEIGHT	NOTES
22.6	175	120	HORIZ. TANK	1	7.5	3600	230/1	78/28/55	1,200 lbs	DUAL POWER FEED REQUIRED
22.6	175			1	7.5	3600	230/1			DUAL FOWER FEED REQUIRED
		-				-				

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 MECHANICAL DETAILS AND SCHEDULES

CONTRACT: 2019.12 Brian A. Taddeo, P.E.

SHEET NUMBER: **M-500**

AAMPEREMCMICROPHONEACALTERNATING CURRENTMWMICROWAVEAFFABOVE FINISHED FLOORMLOMAIN LUG ONLYAFGABOVE FINISHED GRADEMTMOUNT			CAMERA ~ PROVIDE CAMERA AND SINGLE GANG BOX WITH 3/4" CONDUIT. MOUNTING HEIGHT AND LOCATION SHALL BE CONFIRMED WITH OWNER PRIOR TO ROUGH IN.	
F AHU AIR HANDLING UNIT MTS MANUAL TRANSFER SWITCH AIC AMPERES INTERRUPTING 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			 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. 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. CA ACCESS CONTROL - PROVIDE JUNCTION BOX ABOVE CEILING WITH RECESSED CONDUITS WITH PULL STRINGS TO DOOR FRAME AT 50" AFF AT HINGE SIDE, 50" AFF AT LATCH SIDE AND AT HEADER 6" FROM LATCH SIDE. 	F
BKBD BACKBOARD N NEUTRAL C CONDUIT NC NORMALLY CLOSED CAT CATALOG, CATEGORY NEC NATIONAL ELECTRICAL CODE CATV CABLE TV NEMA NATIONAL ELECTRICAL CB CIRCUIT BREAKER NFPA NATIONAL FIRE PROTECTION CCTV CLOSED CIRCUIT TELEVISION NIC NOT IN CONTRACT CM CIRCULAR MILS NF NON-FUSED CU MECH CONDENSING UNIT NO., # NUMBER CU COPPER NO., # NUMBER CUH CABINET UNIT HEATER OC ON CENTER	LIGHTING SWITCHES \$a LIGHT SWITCH, 20A, 125/277V \$3 THREE-WAY LIGHT SWITCH \$4 FOUR-WAY LIGHT SWITCH \$2 TWO-POLE SWITCH \$k KEY OPERATED SWITCH	SINGLE RECEPTACLES MOUNT 48" AFF U.N.O. REFER TO SPECIAL RECEPTACLE SCHEDULE CD (A) OVERHEAD SINGLE RECEPTACLE CORD DROP	 DOOR POSITION SWITCH - PROVIDE 3/4" RECESSED CONDUIT TO DOOR FRAME HEADER 6" FROM LATCH SIDE. SEAA SECURITY PANEL ANNUNCIATOR (DIV 28) 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 CORRIDOR CEILING THAT IS CONTIGUOUS TO THE NEAREST TO 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 	E
CRCORD REELDCDIRECT CURRENTOCCOCCUPANCYDDCDIGITAL DIRECT CONTROLOHOVERHEADDNDOWNPPOLEDWDISHWASHERPAPUBLIC ADDRESSDWGDRAWINGPBPULLBOXEFEXHAUST FANPH, ØPHASEELEVELEVATORPIRPASSIVE INFRAREDEMTELECTRICAL METALLIC TUBINGPNLPANELBOARDEPEXPLOSION PROOFP/OPART OF	 K KEY OPERATED SWITCH MOTOR RATED SWITCH MOTOR RATED SWITCH WITH RED PILOT LIGHT ~ RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING OCCUPANCY SENSOR SWITCH, WALL MOUNTED Sos2 2-BUTTON OCCUPANCY SENSOR SWITCH Sos3 OCCUPANCY SENSOR SWITCH WIRED FOR 3-WAY OPERATION SosD OCCUPANCY SENSOR SWITCH WITH DIMMING ~ COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED 	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	ACCESSIBLE CEILINGS. 4. DIVISION 26 SHALL PROVIDE 120 VOLT POWER WHERE INDICATED. DIV 26 SHALL PROVIDE EMPTY BOXES AND CONDUITS WITH PULL STRING U.N.O. D7 SECURITY LEGEND 12" = 1'-0" PANELBOARD ~ SURFACE MOUNTED PANELBOARD ~ FLUSH MOUNTED AS AF AF FUSED DISCONNECT SWITCH NON-FUSED DISCONNECT SWITCH 0 MOTOR STARTER ~ NUMBER INDICATES NEMA SIZE	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 S SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL, WIRED TO FACP S SINGLE STATION SMOKE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, WALL MOUNTED S SINGLE STATION SMOKE DETECTOR WITH AUDIBLE/VISUAL INDICATING APPLIANCE, CEILING MOUNTED D S S SINGLE/MULTI-STATION SMOKE/CARBON MONOXIDE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, CEILING MOUNTED
EP EARLOSION PROOP FIO FACT 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 RMC RIGID METAL CONDUIT GFP GROUND FAULT PROTECTION RTU ROOFTOP UNIT HID HIGH INTENSITY DISCHARGE REF REFRIGERATOR	 OCCUPANCY SENSOR, CEILING MOUNTED OCCUPANCY SENSOR, WALL MOUNTED DAYLIGHT SENSOR DAYLIGHT SENSOR DIMMER SWITCH ~ COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED HANDICAP SWITCHES FOR HOOD LIGHT AND FAN TIMER SWITCH LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT GROUPS LVab 	P Image: Single Receptacle, PEDESTAL MOUNTED P Image: Single Receptacle, PEDESTAL MOUNTED C Image: Duplex Receptacle, Flush Mounted in Ceiling C Image: Duplex Receptacle, Flush Mounted in Ceiling C Image: Duplex Receptacle, Flush Mounted in Ceiling C Image: Duplex GFCI Receptacle, Flush Mounted in Ceiling C Image: Duplex GFCI Receptacle, Flush Mounted in Ceiling C Image: Duplex GFCI Receptacle, Flush Mounted in Ceiling C Image: Duplex GFCI Receptacle, Flush Mounted in Ceiling C Image: Duplex GFCI Receptacle, Flush Mounted in Ceiling C Image: Duplex GFCI Receptacle, Flush Mounted in Ceiling C Image: Duplex GFCI Receptacle, Flush Mounted in Ceiling CR Overhead Receptacle Drop, Duplex ~ CR= Cord Reel CR Overhead Receptacle Drop, GFCI ~ CR= Cord Reel Image: CR Image: Overhead Receptacle Drop, GFCI ~ CR= Cord Reel Image: Unit-Service Flush Floor Box ~ WireMold EFB45 Series OR	00 COMBINATION MOTOR STARTER/FUSED DISCONNECT MOTOR OR FAN M METER AND CABINET JUNCTION BOX JUNCTION BOX ~ WALL MOUNTED I JUNCTION BOX ~ PEDESTAL MOUNTED	Single/Multi-Station SMOKE/CARBON MONOXIDE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, WALL MOUNTED H HEAT DETECTOR, WIRED TO FACP H HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL, WIRED TO FACP D DUCT SMOKE DETECTOR, WIRED TO FACP G GAS DETECTOR, WIRED TO FACP FLAME DETECTOR, WIRED TO FACP FLAME DETECTOR, WIRED TO FACP RTS REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS
HOAHAND-OFF-AUTO SELECTORSFSUPPLY FANHPHORSEPOWERSPDTSINGLE POLE, DOUBLE THROWHVACHEATING, VENTILATION ANDSQSQUAREIDSINTRUSION DETECTION SYSTEMTELTELEPHONEIGISOLATED GROUNDTVSSTRANSIENT VOLTAGE SURGEIMCINTERMEDIATE METAL CONDUITTYPTYPICALIRINFRAREDUFUNDER FLOORKKILOUGUNDERGROUNDKCMILKILO CIRCULAR MILSUHUNIT HEATER	LTC LIGHTING TIME CLOCK LC LIGHTING CONTACTOR LCP LIGHTING CONTROL PANEL CC OUTDOOR PHOTOELECTRIC SWITCH NOTES: 1. MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO 2. LOWER CASE LETTER AT SWITCH INDICATES SWITCHING	 APPROVED EQUAL. COVER SHALL BE FLUSH STYLE WITH FLOOR INSERT. COVER FINISH COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD FINISHES. DATA OUTLET IN FLUSH FLOOR BOX 2-GANG JUNCTION BOX IN FLUSH FLOOR BOX 2-GANG JUNCTION BOX IN FLUSH FLOOR BOX BUPLEX RECEPTACLES DUPLEX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R DOUBLE DUPLEX RECEPTACLE HATCH INDICATES RECEPTACLE WITH INSULATED/ 	T# 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 WIRING UNDERGROUND OR UNDERSLAB HOMERUN ~ (2)#12+(1)#12G UNO (EXCEPT LIGHTING	F- MANUAL PULL STATION, MOUNT 48" AFF DF- HORN/STROBE, WALL MOUNTED CANDELA AS NOTED ON PLANS, WIRED TO FACP DF HORN/STROBE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP F- STROBE ONLY INDICATING APPLIANCE, WALL MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP F- STROBE ONLY INDICATING APPLIANCE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP F- STROBE ONLY INDICATING APPLIANCE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP F- HORN/STROBE WITH PULL STATION DIRECTLY BELOW MAGNETIC DOOR HOLD OPEN DEVICE, WIRED TO FACP
KW KILOWATT UL UNDERWRITER'S LABORATORY B 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 XFMR TRANSFORMER	Image:	ISOLATED GROUND ISOLATED GROUND GFCI DUPLEX RECEPTACLE, MOUNT 46" AFF UNO GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 46" 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 SURFACE RACEWAY, MOUNT 44" AFF UNO. PROVIDE NEMA 5-20 RECEPTACLES AT 24" OC	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 P MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~ FURNISHED BY DIV 08, WIRED BY DIV 26 CB ENCLOSED CIRCUIT BREAKER	T TRANSFORMER F SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED TO FACP UNDER DIVISION 26 T SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 26 C SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED TO FACP UNDER DIVISION 24, WIRED TO FACP UNDER DIVISION 26 P SPRINKLER SYSTEM PRE-ACTION VALVE, FURNISHED AND INSTALLED UNDER DIVISION 26 F SPRINKLER SYSTEM PRE-ACTION VALVE, FURNISHED AND INSTALLED UNDER DIVISION 21, WIRED TO FACP UNDER DIVISION 26 F K K KNOX BOX, MOUNT 60" AFF
MAX MAXIMUM (E) EXISTING ITEM TO REMAIN MCB MAIN CIRCUIT BREAKER (R) REMOVE ITEM AND DISPOSE OF MECH MECHANICAL (ER) RELOCATED ITEM AT NEW MH MOUNTING HEIGHT (RL) REMOVE AND RELOCATE A1 ABBREVIATIONS	INV CENTRAL LIGHTING INVERTER REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPES TYPICAL FOR ALL FIXTURE TYPES R1 - INDICATES LUMINAIRE TYPE ON SCHEDULE a LIGHTING A3	 POWER POLE USED AS RACEWAY ~ VERTICAL POWER SYSTEMS SL-EXP POWER POLE WITH DEVICES ~ VERTICAL POWER SYSTEMS PP-EXP NOTES: MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFG UNO A5 RECEPTACLES 	ATS AUTOMATIC TRANSFER SWITCH H- HAND DRYER, COORDINATE HEIGHT WITH ARCHITECTURAL PLANS C ENCLOSED CONTACTOR Image: Overhead data drop Image: C Data outlet flush in ceiling AT POWER DISTRIBUTION	Image: Kinda boa, Model for Arr SD SMOKE DAMPER, WIRED TO FACP FSD FIRE AND SMOKE DAMPER, WIRED TO FACP HORN/STROBE, CANDELA AS NOTED ON PLANS, WIRED TO FACP Image: Solid content of the second seco
Scale: Designed 12" = 1'-0" Kevision B y Date No. Revision B y Date Cathy Faucher 1 ISSUED FOR BID AEI 10/15/19 Cathy Faucher 1 ISSUED FOR BID AEI 10/15/19 Cathy Faucher 1 ISSUED FOR BID AEI 10/15/19 Cathy Faucher 1 ISSUED FOR BID ISSUED ISSUED ISSUED 1 ISSUED FOR BID ISSUED ISSUED ISSUED	R, P.E. By Date SRM 10/15/19 Checked: CAF 10/15/19	P: 207.221.2260 F: 207.221.2266 Web:www.allied-eng.com	GOLD STAR LITCHFIELD	2019.12, NEW MECHANICS GARAGE MAINTENANCE YARD, MILE MARKER 92.7 CAL ABBREVIATIONS AND LEGENDS SHEET NUMBER: E-000 34 OF 41





ian A.	Taddeo	DFI

		1			2					3		1
	PROJECT N	<u>OTES</u>									INSTA	LATION COORD
	OTH COC DOC COM BE C	ERWISE SF RDINATION UMENTS IN IPLIMENTA CONSIDERE	WORK SHALL INCLUDE PECIFICALLY INDICATED N WITH ALL TRADES SC NCLUDING BOTH THE DF RY. WORK REQUIREMENT ED PART OF THE SCOPE	AS EXIST OPE OF W RAWINGS NTS INDIC	ING OR WORK I ORK AS INDICA AND THE SPECI ATED IN ANY CO	BY OTHERS TED ON TH FICATIONS ONTRACT D	5, AND E CONTRACT , WHICH ARE OCUMENT S	HALL			1.	PRIOR TO ROUG EQUIPMENT PR EQUIPMENT SH AND WIRING RE ACCESSORIES REQUIRED, I.E.
	2. IN G DOC PRO	ENERAL, W UMENTS C	VORK BY OTHERS. /ORK REQUIREMENTS A :ONFLICT WITHIN THEM: HIGHER QUANTITY AND	SELVES O	R WITH CODES	AND REGU	LATIONS.	RE			2.	DISCONNECT, F DEVICES, BOXE FACILITATE THE INTENDED TO II
	3. WOF ELEC SPE	RK AT A MIN CTRICAL CO CIFICATION	S. NIMUM SHALL BE IN ACC ODE AND THE LOCAL GO NS DO NOT ATTEMPT TO DO NOT INSTALL WORK	OVERNING NDICATI	AUTHORITIES. E ALL WORK RE	THE DRAW QUIRED BY	INGS AND CODE AND				3.	ELECTRICAL EC OWNER FURNIS FURNITURE INS WHERE INDICA
	REQ ENG	UIREMENT	T SHALL BE INSTALL WORK	JEST CLA	RIFICATION FRO	OM ARCHITE	ECT AND				4.	THE LOCATION APPROXIMATE. MODIFICATION IN ORDER TO M
	5. ALL	COMPONEI	O BUILDING STRUCTUR	SER DIAGI		LS, BUT NC	T ON THE PL	.AN			5.	EXTRA CHARGE
	6. IT IS INST		A SHALL BE INCLUDED A NT OF THESE PLANS AN IN EVERY DETAIL AND A VIDED WHETHER OR NO	D SPECIFI	CATIONS TO PR REQUIRED FOR	R SUCH AN I	NSTALLATIC	N				CLEAR OR CON REQUEST CLAR DIAGRAMMATIC OF RACEWAYS CONDITIONS.
	TO S	SUBMISSIO	TO DETERMINE PRE-E	r any que	ESTIONS REQUI						6.	WHERE LOADS CIRCUITS HAVE
	8. INCL EXP DRA	UDE IN BID RESS SHIP WING AND	INCLUDE ALL REQUIRED O WHATEVER IS REQUIR PING, EXPEDITING EQU ORDER EQUIPMENT IN	ED TO ME IPMENT, E	ET SCHEDULE I	PROJECT A	ND SUBMIT S				7.	EXCEEDING SP UNLESS OTHER AIC RATINGS TH UPSTREAM OVE
	9. ANY	EQUIPMEN) EQUIPMENT. NT TO BE SUBSTITUTED FIONS FOR ADDITIONAL					R				DIRECTLY BY IT BY 10% THE MA THE NEXT ACTI PANEL.
	10. ALL DUR	ELECTRICA	AL DEVICES, WHEN INST TRUCTION. COVER PLA	ALLED, SI	HALL BE PROTE	CTED FROM	/I DAMAGE	ALS			8.	ALL NEW PANE
	11. TES DRA	WINGS, SP	PLIED. PMENT AND SYSTEMS I PECIFICATIONS, CODES, DSTS FOR TESTING, REV	LOCAL AL	JTHORITIES AND	D REGULAT	IONS, INCLU	DE			9.	EXISTING PANE HIGHEST RATE PANEL. SUBMIT SHORT
	CER	TIFICATION		, , , , , , , , , , , , , , , , , , ,								REVIEW AND
	AND	LOCAL AU	IGHTING AND POWER S THORITIES. REMOVE AL				,				10	INCORPORATE
	14. ALL BE F	URNISHED	ND PATCHING REQUIRE AND INSTALLED BY TH TO MATCH SURROUNDI	E CONTRA	ACTOR. ALL CUT	TING SHAL	L BE PATCHE				10.	SUBMIT OVER-C DISTRIBUTION E REVIEW AND AF PROTECTIVE DE FACILITY.
											11.	SUBMIT ARC FL DISTRIBUTION I
	1. DIVISION 2. FOR EA OUTLET B CONTIGUO WITHOUT NEAREST ROO OR J	N 26 SHALI CH TECHN OX TO 6" A DUS TO TH CEILINGS, ACCESSIB -HOOK UN ATH TO NE	RAL NOTES: L PROVIDE EMPTY BOX NOLOGY OUTLET, PROV ABOVE THE NEAREST A E NEAREST IT ROOM O CONDUIT SHALL BE RU LE CORRIDOR CEILING O. CONDUIT PATHWAY AREST IT ROOM OR J-H INGS.	/IDE CON ACCESSIB IR J-HOO JN AT UN G THAT IS IS SHALL	CEALED CONDI LE CORRIDOR K PATHWAY,UN DERSIDE OF DE CONTIGUOUS BE PROVIDED I	UIT FROM E CEILING TH IO. IN ROC ECK TO 6" A FOR THE NEA FOR ANY P	EACH HAT IS MAS ABOVE THE AREST IT ORTIONS	SINGLE GANG BOX	DOUBLE GANG BOX	RJ-45 WITH SS WALL PHONE PLATE		
	SYMBOL	MTG HT AFF UNO	DESC	RIPTION		KEY NOTE	CONDUIT SIZE		OX ′PE			
		18"	(1) VOICE AND (1) DATA	A OUTLET	S		1"		X			
		18" 45"	(1) DATA OUTLET WALL PHONE OUTLET				1"		X	1		
		NOTE 3	DATA OUTLET FOR WI	RELESS A	CCESS POINT	3	1" (KEY NOTE 3)	x				
	KEY NOT 1. MOUNT 2. NOT US	ING HEIGH	IT AS NOTED ON PLANS	;								
	CONCEAL	ED ABOVE	SUSPENDED CEILINGS CEILINGS OR IN CONDU ERSIDE OF DECK.						GS,			
	A1	ELEC	TRICAL SCHEDU	ILES								
Scale	2.				D	esigned	by:					
No. 1		Revis ISSUED F		B y AEI	Date 10/15/19	ATHY FAUC	HER, P.E.					PRO
						esigne	B d: sri		Do 10/1	ate	Check	ed: CAF

DLL 10/15/19

INATION NOTES

GH-IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND ROVIDED BY OTHER TRADES, COORDINATE WITH THE GENERAL CONTRACTOR, OP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION EQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND FOR A COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS POWER, CONTROL, INTERLOCK, ETC.

REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, ES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO E WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT NDICATE ALL ITEMS TO BE REMOVED.

QUIPMENT, RACEWAYS AND OUTLETS MOUNTED TO AND OR INSTALLED IN SHED FURNITURE SHALL BE COORDINATED WITH THE EQUIPMENT AND STALLERS AND THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. EXCEPT TED OR REQUIRED OTHERWISE.

OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT

TION, MOUNTING OR RACEWAY ROUTING ARE NOT INDICATED OR ARE NOT IFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND RIFICATION PRIOR TO ROUGH-IN OR INSTALLATION. DRAWINGS ARE CONLY, EXACT LOCATION, MOUNTING HEIGHTS OR EQUIPMENT AND ROUTING SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD

ARE ADDED TO EXISTING BRANCH CIRCUITS, VERIFY THAT THE EXISTING ADEQUATE CAPACITY TO SUPPORT THE ADDITIONAL LOAD WITHOUT PECIFIED MAXIMUM LOAD.

RWISE DIRECTED. PROVIDE ALL NEW POWER DISTRIBUTION EQUIPMENT WITH HAT MATCH OR EXCEED THE AIC RATING OF THE NEXT ACTIVE EXISTING ER-CURRENT PROTECTIVE DEVICE SERVING THE PANEL WHEN SERVED TS SOURCE (E.G. NO TRANSFORMER) OR PROVIDE AIC RATING THAT EXCEEDS XIMUM LET THROUGH FAULT CURRENT (UNDER INFINITE PRIMARY BUSS) OF IVE UPSTREAM TRANSFORMER (EXISTING OR NEW) SERVING THE RESPECTIVE

LS SHALL BE FULLY RATED FOR THE DESIGNATED AIC VALUE; PANELS IES RATINGS WILL NOT BE ACCEPTABLE. NEW CIRCUIT BREAKERS PROVIDED IN ELS SHALL BE PROVIDED WITH AIC RATINGS THAT MATCH OR EXCEED THE D OVER-CURRENT PROTECTIVE DEVICE WITHIN THE RESPECTIVE EXISTING

CIRCUIT STUDY WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR PPROVAL. IN THE STUDY DEMONSTRATE THAT THE AIC RATING SELECTIONS INTEGRATED AND COORDINATED WITH THE EXISTING AND NEW POWER EQUIPMENT. CONFIRM THAT THE AIC RATING SELECTIONS HAVE D THE AVAILABLE FAULT DUTY VALUES OBTAINED FROM THE UTILITY COMPANY ECTS ELECTRICAL SERVICE POINT OF COMMON COUPLING.

CURRENT PROTECTIVE DEVICE COORDINATION STUDY, FOR ALL NEW POWER EQUIPMENT, WITH THE POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR PPROVAL. INCLUDE THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT EVICES, IN THE STUDY ANALYSIS, WHEN PROJECT IS WITHIN AN EXISTING

ASH REPORT. FOR ALL NEW POWER DISTRIBUTION EQUIPMENT. WITH POWER EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL.

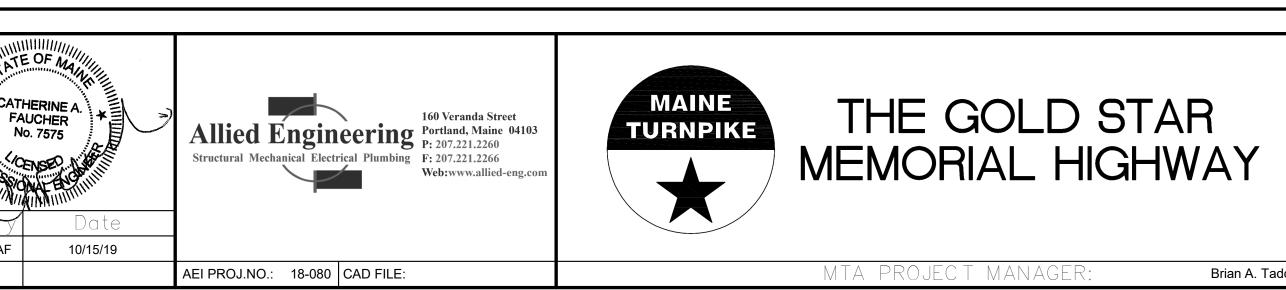
WIRING NOTES

- UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS; ALL POW DISTRIBUTION EQUIPMENT BUSSING AND TRANSFORMER WINDINGS SHALL B OF 98% CONDUCTIVE COPPER MATERIAL.
- UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS; ALL CONE 2. SHALL BE FABRICATED OF 98% CONDUCTIVE COPPER MATERIAL. MINIMUM C SIZE SHALL BE #12 AWG FOR BRANCH CIRCUITS AND #14 AWG FOR CONTROL
- WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECI CONDITIONS.
- BRANCH CIRCUIT WIRING NOT SHOWN. CIRCUITING SHALL IN ACCORDANCE APPLICABLE CODES AND STANDARD PRACTICE. PROVIDE A 20A, 1P CIRCUIT EACH LIGHTING AND RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED CONNECT NO MORE THAN SIX DUPLEX CONVENIENCE RECEPTACLES PER BF CIRCUIT. CONNECTED LOAD ON LIGHTING CIRCUITS SHALL NOT EXCEED 12
- ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE. ALI 5 WIRING INCLUDING THAT WHICH IS INSTALLED ABOVE BUT IS VISIBLE FROM PARTIALLY OR FULLY OPEN CEILING, SHALL BE INSTALLED IN CONDUIT OR RA REFER TO SPECIFICATIONS FOR ACCEPTABLE WIRING METHODS.
- 6. WIRING AND CONDUIT SHALL BE REQUIRED FOR ALL SWITCHES, AND OUTLE WITH CIRCUIT NUMBERS. PROVIDE 3/4" CONDUIT, 3#12 UNLESS OTHERWISE IN PHASE, 1 NEUTRAL AND 1 GROUND). WIRE AND CONDUIT SIZES ON HOME RU CONTINUOUS THROUGHOUT CIRCUIT, REFER TO VOLTAGE DROP CHART ON SHEET. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING INSTALLED.
- RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (F NEUTRALS) AND GROUNDING CONDUCTOR. PROVIDE A DEDICATED NEUTRAL FOR EACH SINGLE-PHASE RECEPTACLE OR LIGHTING CIRCUIT, UNLESS OTHE INDICATED OR IF AN OVERSIZED NEUTRAL IS SPECIFIED. CIRCUITS WITH SHA NEUTRALS SHALL BE PROVIDED WITH CIRCUIT BREAKERS THAT HAVE A COM (E.G. FURNITURE WHIPS)
- 8. A SEPARATE GROUNDING CONDUCTOR SHALL BE RUN IN EVERY FEEDER AN CIRCUIT CONDUIT.
- MARK ALL CONDUITS AND JUNCTION BOXES WITH PERMANENT MARKER INDI AND CIRCUIT NUMBER OF CONDUCTORS CONTAINED WITHIN. LABEL WHERE ENTER PANELS, WIRE WAYS, PULL BOXES, ETC. LABEL EMPTY CONDUITS WIT (VOICE, DATA, SECURITY, ETC.) AND SOURCE OF CONDUIT.
- 10. COORDINATE WITH OWNER TO DETERMINE WHICH RECEPTACLES AND ITEMS EQUIPMENT REQUIRE STANDBY GENERATOR POWER.
- 11. ELECTRICAL WORK NOT SERVING STAIRWELLS SHALL NOT PASS THROUGH ENCLOSURE UNLESS AN APPROVED RATED SOFFIT IS PROVIDED TO MAINTAI SMOKE RATING.
- ALL RACEWAYS CROSSING EXPANSION JOINTS SHALL BE EQUIPPED WITH EX 12. FITTINGS.
- PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CON 13. PENETRATE THE BUILDING BELOW GRADE. O.Z. GEDNEY OR APPROVED EQU WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.
- 14. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THRO OR FULL HEIGHT (FLOOR TO FLOOR) WALLS.

V	OLTAGE D	ROP CHAF	RT						
MAXIMUM	MAXIMUM LE	MAXIMUM LENGTH PER CONDUCTO							
LOAD (VA)	#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						

BRANCH C)
CIRCUIT BREAKER	
120 OR 277	1
15A-1P, 20A-1P	
30A-1P	
40A-1P	
50A-1P	
60A-1P	
208 OR 480	1
15A-2P, 20A-2P	
30A-2P	
40A-2P	
50A-2P	
60A-2P	
208 OR 480	1
15A-3P, 20A-3P	
30A-3P	
40A-3P	
50A-3P	
60A-3P	
1	

BRANCH CIRCUIT 1. TYPE MC CABLE SH **GROUND CONDUCTOF** 2. WIRING BASED ON M FEET FOR 120 VOLT CI 3. UPGRADE WIRE AND ADDRESS VOLTAGE DI



WER I. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED UBE FABRICATED I. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED NDUCTORS COMPUTER POWER OUTLETS FEEDING THE VIDEO SOURCE ARE TO BE CONNECTED TO THE SAME PHASE TO E UNIVERSITY INFORMATE THE POWER WIRING FOR SYSTEM EQUIPMENT WITH THE SYSTEM INSTALLEP PRIOR TO LOWER WIRING FOR SYSTEM EQUIPMENT WITH OCMODUCITOR CAL UNLESS OTHERWISE INDICATED PROVIDE 20A HEAVY DUTY GRADE RECEPTACLES WITH OCMODUCITOR CAL UNLESS OTHERWISE INDICATED PROVIDE 20A HEAVY DUTY GRADE RECEPTACLES WITH OCMODUCITOR D WIRING. RECEPTACLE COLOR CODE AND ENDINE SEWICH 1. ON GENERATOR POWER - RED 2. ON INFS POWER - NEDUE 3. ISSUATED SQUIMD - ORANCE SEWICH 4. ON NORMAL POWER - NORY OR AS SELECTED BY ARCHITECT 2. AMPS. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING ROCEWAYS. ETS INDICATED INDICATED FOR START SCHOLE OCCATION IS NOT SECURE ALARY. SWICHES RECEIVED AN EXISTING ROCEWAYS. IDMENSIONS ON THE ARCHITECTURAL PLANS, DETAILS, OR RELEVATIONS. ETS INDICATED IN DURA SETS INS RECEIVED AND AND AND ARCHITECTURAL DRAWINGS AND EXISTING ROCEWAYS. IDMENSIONS ON THE ARCHITECTURAL PLANS, DETAILS, OR RELEVATIONS. ETS INDICATED IN DURA TO POWER SIGNES (SMICHAES BY OND IN ARCHITECTURAL DRAWINGS. IDMENSIONS ON THE ARCHITECTURAL PLANS, DETAILS, OR RELEVATIONS. IND BRANCH			
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NDUITS THAT QUAL. PROVIDE 12. 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.	EXPANSION		
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		OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED	
	ROUGH FLOORS		┝

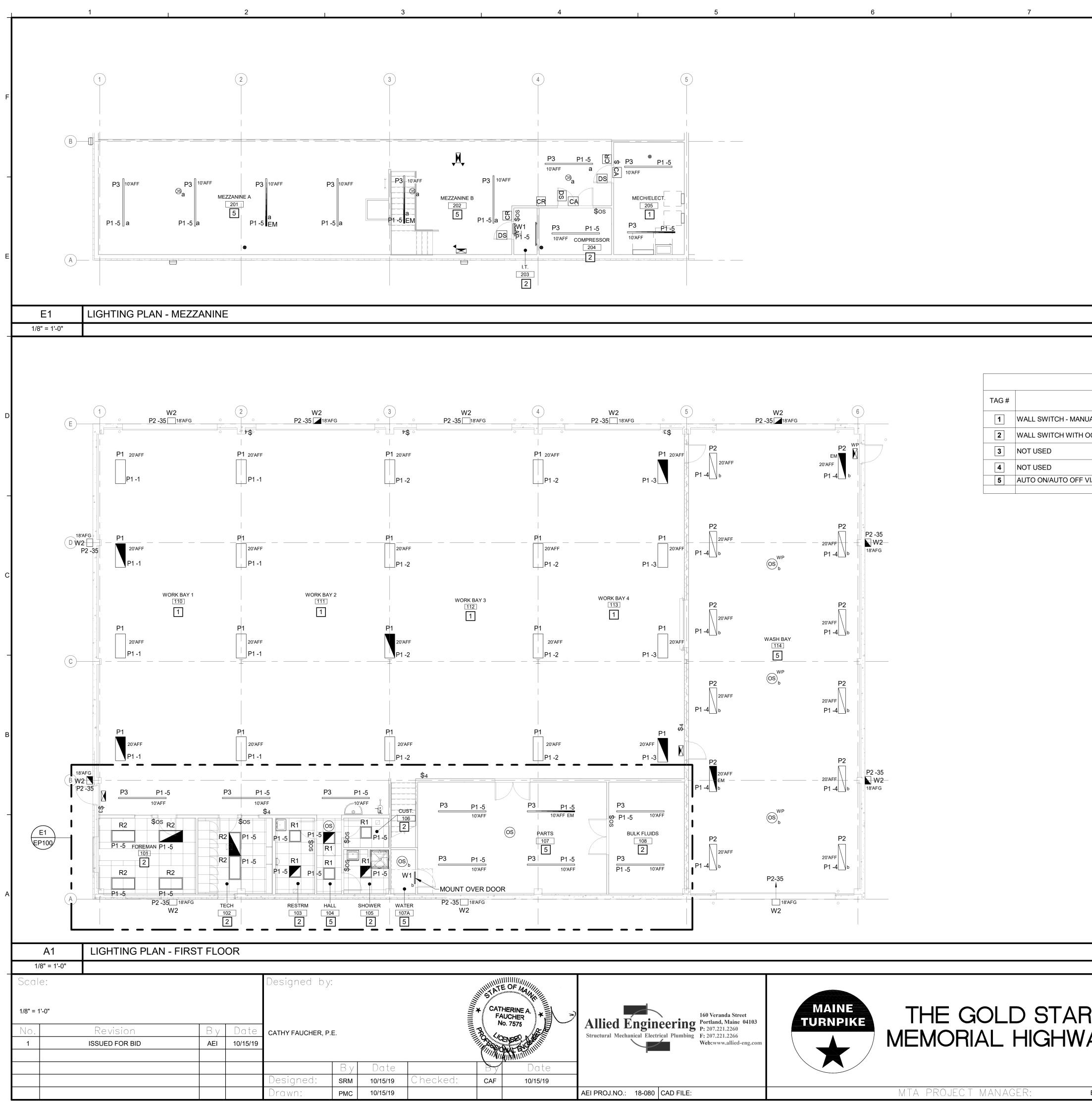
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CIRCUITS SCHEDULE	
CONDUCTOR	
VOLT, 1 PH., 2W CIRCUITS	-
2#12 & 1#12 GND - 3/4" C.	-
2#10 & 1#10 GND - 3/4" C.	-
2#8 & 1#10 GND - 3/4" C.	-
2#6 & 1#10 GND - 3/4" C.	-
2#6 & 1#10 GND - 3/4" C.	-
VOLT, 1PH., 2W CIRCUITS	-
2#12 & 1#12 GND - 3/4" C.	-
2#10 & 1#10 GND - 3/4" C.	-
2#8 & 1#10 GND - 3/4" C.	-
2#6 & 1#10 GND - 3/4" C.	-
2#6 & 1#10 GND - 3/4" C.	-
VOLT, 3PH., 3W CIRCUITS	-
3#12 & 1#12 GND - 3/4" C.	-
3#10 & 1#10 GND - 3/4" C.	-
3#8 & 1#10 GND - 3/4" C.	
3#6 & 1#10 GND - 3/4" C.	
3#6 & 1#10 GND - 3/4" C.	-
SCHEDULE NOTES:	_
ALL INCLUDE FULL SIZE INSULATED	
R. SIZES AS INDICATED IN SCHEDULE	
MAXIMUM FEEDER LENGTH OF 150	
IRCUITS AND 300 FEET FOR 277	
D CONDUIT SIZE AS REQUIRED TO ROP	
	I

SPECIAL RECEPTACLE SCHEDULE							
TAG	NEMA	DESCRIPTION (SINGLE DEVICE)	OCPD	BRANCH CIRCUIT			
А	5-15R	15A-125V,2P,3W	15A-1P	2#12 & 1#12GND - 3/4" C			
В	5-20R	20A-125V,2P,3W	20A-1P	2#12 & 1#12GND - 3/4" C			
С	5-30R	30A-125V,2P,3W	30A-1P	2#10 & 1#10GND - 3/4" C			
D	5-50R	50A-125V,2P,3W	50A-1P	2#6 & 1#10GND - 3/4" C			
E	6-15R	15A-250V,2P,3W	15A-2P	2#12 & 1#12GND - 3/4" C			
F	6-20R	20A-250V,2P,3W	20A-2P	2#12 & 1#12GND - 3/4" C			
G	6-30R	30A-250V,2P,3W	30A-2P	2#10 & 1#10GND - 3/4" C			
Н	6-50R	50A-250V,2P,3W	50A-2P	2#6 & 1#10GND - 3/4" C			
	14-20R	20A-125/250V,3P,4W	20A-2P	3#12 & 1#12GND - 3/4" C			
J	14-30R	30A-125/250V,3P,4W	30A-2P	2#10 & 1#10GND - 3/4" C			
K	14-50R	50A-125/250V,3P,4W	50A-2P	3#6 & 1#10GND - 1" C			
L	14-60R	60A-125/250V,3P,4W	60A-2P	3#6 & 1#10GND - 1" C			
М	15-20R	20A-250V,3PH,3P,4W	20A-3P	3#12 & 1#12GND - 3/4" C			
Ν	15-30R	30A-250V,3PH,3P,4W	30A-3P	3#10 & 1#10GND - 3/4" C			
Р	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			
Т	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			
Х	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	L16-30R	30A-480V, 3P,4W, TWIST LOCK	30A-3P	3#10 & 1#10GND - 3/4" C			

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 ELECTRICAL GENERAL NOTES AND SCHEDULES

SHEET NUMBER: **E-001**



TAG #	
1	WALL SWITCH - MANU
2	WALL SWITCH WITH (
3	NOT USED
4	NOT USED
5	AUTO ON/AUTO OFF \

8		9	10	
		/IDE TIME CLOCK FOR EXTERIOR LIGHTING CO	ONTROL WITH PHOTOCELL (TYP.)	
		/IDE RELAYS TO CONTROL ALL LIGHTING TOG	ETHER IN ROOM BY SWITCHES SHOWN.	
	<u></u> /			
				E
	E8	LIGHTING KEYNOTES		
				┢

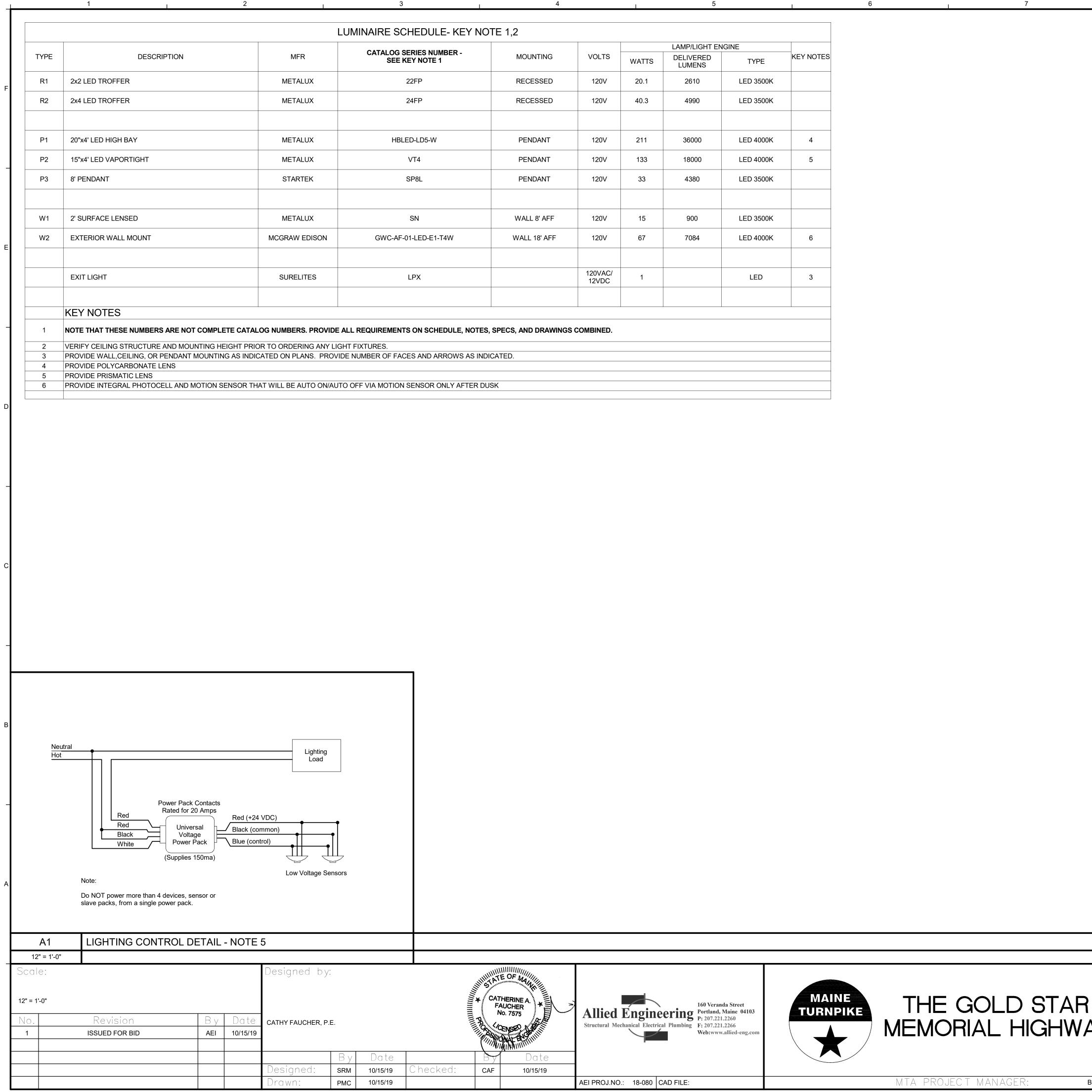
LIGHTING CONTROL NOTES SCHEDULE	
DESCRIPTION OF LIGHTING CONTROL DEVICES AND OPERATION	DETAIL NUMBER
JAL ON/MANUAL OFF	NO DETAIL
OCCUPANCY SENSOR - MANUAL ON AND OFF/AUTO OFF	NO DETAIL
	NO DETAIL
/IA OCCUPANCY SENSOR(S)	A1/EL500

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A	Y	
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CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 LIGHTING PLAN

CONTRACT: 2019.12 Brian A. Taddeo, P.E.

SHEET NUMBER: **EL-100**



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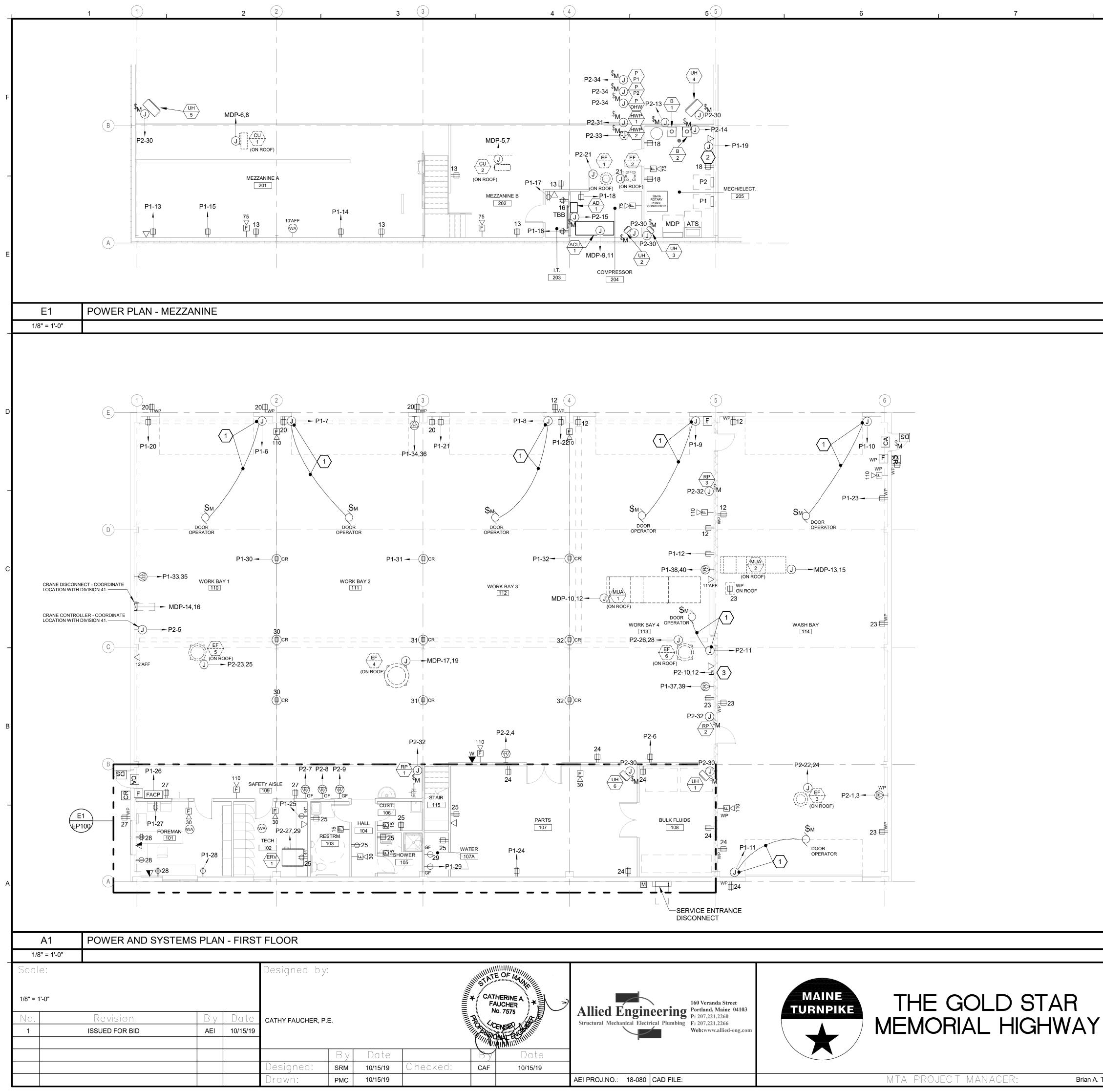
LAMP/LIGHT ENGINE					
MOUNTING	VOLTS	WATTS	DELIVERED LUMENS	TYPE	KEY NOTES
RECESSED	120V	20.1	2610	LED 3500K	
RECESSED	120V	40.3	4990	LED 3500K	
PENDANT	120V	211	36000	LED 4000K	4
PENDANT	120V	133	18000	LED 4000K	5
PENDANT	120V	33	4380	LED 3500K	
WALL 8' AFF	120V	15	900	LED 3500K	
WALL 18' AFF	120V	67	7084	LED 4000K	6
	120VAC/ 12VDC	1		LED	3
, SPECS, AND DRAWINGS	COMBINED.				
ICATED.					
JSK					

}		
Ą	Y	

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 LIGHTING FIXTURE SCHEDULE AND DETAILS

CONTRACT: 2019.12 Brian A. Taddeo, P.E.

SHEET NUMBER: **EL-500**

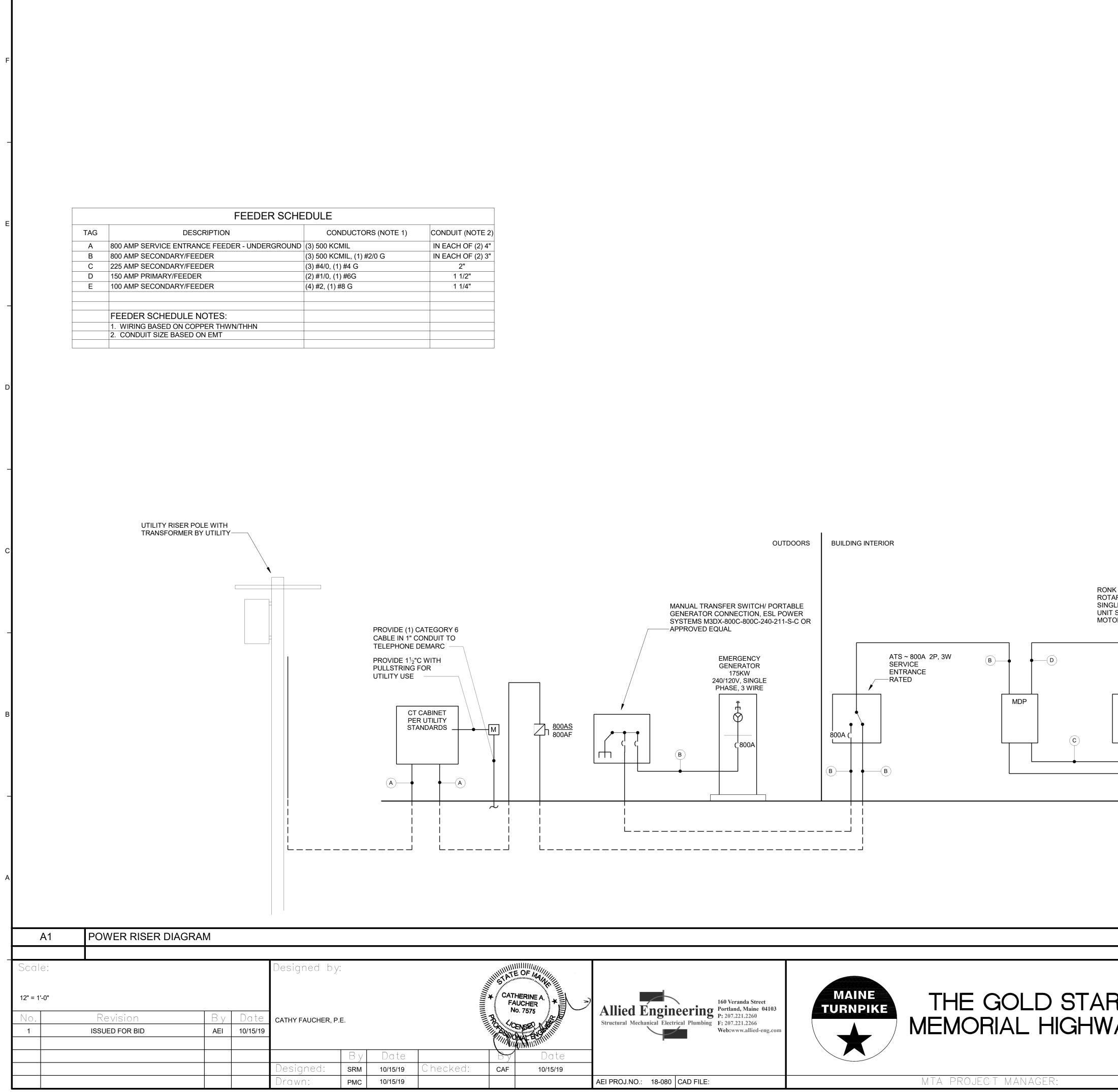


1 8		9	10
		IDE SINGLE GANG J-BOX FOR CONTROLS 44" AFI ROLS AND CONTROL WIRING BY OTHERS. CONTROLS CIRCUIT. PROVIDE J-BOX 44" AFF. ST LIFT- 2POLE DISCONNECT 30A/30A, WIRING SH	
	E8	ELECTRICAL KEYNOTES	

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 POWER AND SYSTEMS PLANS

CONTRACT: 2019.12 Brian A. Taddeo, P.E.

SHEET NUMBER: **EP-100**

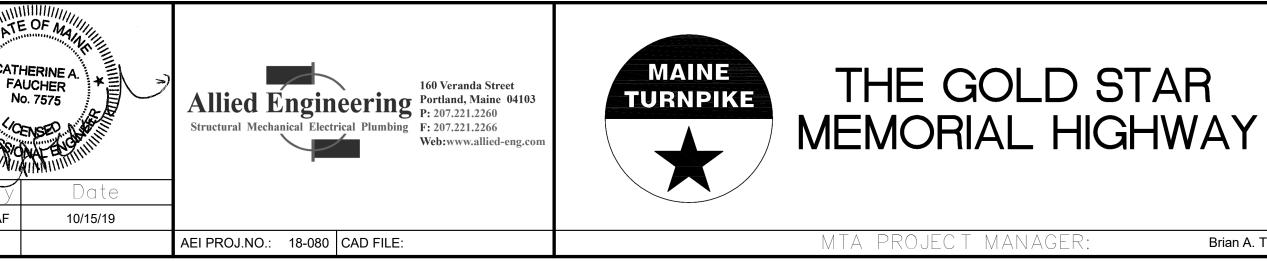


		D
ARY FRAME BASE OR A LE-PHASE INPUT, 208/	ONVERTER WITH 324RLC APPROVED EQUAL. 28 KVA, 240V 120V 3-PHASE 4-WIRE OUTPUT.	С
P1	AND SUITABLE FOR MULTI-	В
		A
} AY	CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 ELECTRICAL RISER DIAGRAM	
Brian A. Taddeo, P.E.	SHEET NUMBER: EP-500 CONTRACT: 2019.12 39 OF 41	

					1]		Г					
Sup	Location: oply From: Mounting: Surface	Ph			gle		A.I.C. Rating Mains Type Bus Rating MCB Rating	9: MLO 9: 800 A						:		tion: rom: MDP ting: Surface	
lotes:												r	Notes:				
												_					
1		Poles A (kV	A) 21.8	B (kVA)	Poles			rcuit Des	cription	СКТ 2		_	СКТ			scription	T Ai
3 P1 PANEL	225	2		25.6 20.		225	P2 PANEL			4		_	3 LTG	GARAC		FIXTURES	
9 HVAC-CU-2	20	2 4.8	4.8	1.3 2.1	2	20	HVAC-CU-1	1		8 10			9 DO	OR OPE OR OPE	RATOR		
11 13 HVAC-MUA-2	40		13.5	4.8 4.8	2	150	CRANE			12 14		_	13 REC		LES-MEZ		
15 17 HVAC - EE-4	40		0.0	2.0 13.	2	40	WELL PUMP					_	17 DD0	C CONTI	LE-MEZZ	POWER	
19 10 21 23 Spare	100	2 0.0	0.0	3.4 0.0 0.0 0.0	2	200	Spare		5	20 22 24		_	21 REC	/er-HVAC CEPTAC CEPTAC		5	
25 Spare 27 Spare	20 20	1 0.0 1	0.0	0.0 0.0	2	100	Spare			24 26 28		-	25 REC	CEPTAC CEPTAC CEPTAC	LES		
29Spare31Spare	20 20 20	1 0.0 1	0.0	0.0 0.0	1	20 20	Spare Spare			30 32		_		TER PR	OCESSIN	IG RECEPTS	
33Spare35Spare	20 20	1 0.0 1	0.0	0.0 0.0	1	20	Spare Spare			34 36		_	33	LDER			
37Spare39Spare	20 20	1 0.0 1	0.0	0.0 0.0	1	20 20	Spare Spare			38 40			37 39 WE	LDER			
41 Spare	20 Total			78.1 kW						42			41 Spa	re			
		Amp: 652 A		651 A								_					
oad Classification VAC ghting	Connected Load 61076 VA 6973 VA	Demand Fa 100.00% 125.00%	6	610	ed Deman 076 VA 16 VA	d	Total Con	Panel 1				Ī	Load Class	ification			1 ect 6210 9320
ower eceptacle	42106 VA 45780 VA	100.00%	6	42	06 VA 890 VA		Total Est. D		140.2 kW			_	Receptacle				420
							Total Est. D										
	ELECTRICAL	SCHEDUL	.E OF	F MECH	IANICA	AL EQI	JIPMENT	- REF	ER TC	PANEL SC	HEDUL	.ES F0	OR CIR	CUIT	ING		
TAG	DESCRIPTION/ AREA SE	RVED V	OLTS	PH	LOAD	FLA	MCA	MOPD	FRAME	DISCONNECT POLES FUSE	NEMA	FBD	START	ER FBD	CBD	WIRING IN CON (2 #12, 1#12 G U	DUI
			230	1	7.5 HP	40		-			ENCL	23	VFD	23	23	2 #8, 1 # 100	
ACU-1 AD-1	AIR COMPRESSOR AIR DRYER		230 120	1	7.5 HP 40W	40		-				23 23 23		23 23 23	23 23	2 #8, 1 # 100	
B-1 B-2	BOILER BOILER		120 120	1		8						23 23		23 23	23 23		
CU-1 CU-2	CONDENSING UNIT OUTDOOF CONDENSING UNIT OUTDOOF		240 240	1 1		17.2 11	20 14	30 20	30	2 15	3R	26 23		23 23	23 23	2 #10, 1 #100	3
EF-1 EF-2	FAN FAN		120 120	1 1	1/4 HP 1/10 HP	5.8 2						23 23		23 23	23 23		
EF-3 EF-4	FAN FAN		240 240	1	2 HP 5 HP	12 28		40				23 23		23 23	23 23	2 #8, 1 #100	;
EF-5 EF-6	FAN FAN		240 240	1 1	2 HP 2 HP	12 12						23 23		23 23	23 23		
ERV-1 MUA-1	ENERGY RECOVERY UNIT MAKE UP AIR UNIT		240 240	1	7 HP	4 40	5	15 100				23 23	23	23 23	23 23	2 #2, 1 #8G	
MUA-2 P-P1	MAKE UP AIR UNIT BOILER PRIMARY PUMP		240 120	1	3 HP 1/6	17 2.2		40				23 26	23	23	23 23	2 #8, 1 # 100	3
P-P2 HWP-1	BOILER PRIMARY PUMP HEATING SECONDARY PUMP		120 120	1	1/6 347W	2.2 2.9						26 26			23 23		
HWP-2	HEATING SECONDARY PUMP		120 120	1	347W 179W	2.9 1.5						26 26			23 23		
P-DHW			120	1	73W	0.6						26			23		
P-DHW RP-1 RP-2	RADIANT MF 1 PUMP-WORK B RADIANT MF 2 PUMP-WORK B	AY	120	1	73W	0.6						26			23		
RP-1		AY AY AY		1 1 1 1	73W 73W 16W	0.6 0.6 0.14						26 26 23			23 23 23		
RP-1 RP-2 RP-3	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B	AY AY AY	120 120	1	73W	0.6						26			23		
RP-1 RP-2 RP-3 UH-1 UH-2	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER UNIT HEATER	AY AY AY	120 120 120 120	1 1 1 1 1 1	73W 16W 16W	0.6 0.14 0.14						26 23 23			23 23 23		
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4	RADIANT MF 2 PUMP-WORK BRADIANT MF 3 PUMP-WASH BUNIT HEATERUNIT HEATERUNIT HEATERUNIT HEATERUNIT HEATERUNIT HEATER	AY AY AY	120 120 120 120 120 120 120	1 1 1 1 1 1	73W 16W 16W 16W 1/12 HP	0.6 0.14 0.14 0.14 0.14						26 23 23 23 23 23			23 23 23 23 23 23		
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER	AY AY AY	120 120 120 120 120 120 120 120	1 1 1 1 1 1	73W 16W 16W 16W 1/12 HP 1/12 HP	0.6 0.14 0.14 0.14 1 1						26 23 23 23 23 23 23			23 23 23 23 23 23 23 23		
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER INIT HEATER INIT HEATER INIT HEATER INIT HEATER	AY AY AY	120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1	73W 16W 16W 1/12 HP 1/12 HP 16W	0.6 0.14 0.14 1 1 0.14						26 23 23 23 23 23 23			23 23 23 23 23 23 23 23 ABBF FURNIS		
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER	AY AY AY JRNISHED BY D 3, WIRING BETV	120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 0 N 26, INST AC AND C	73W 16W 16W 1/12 HP 1/12 HP 16W	0.6 0.14 0.14 1 1 0.14 1 0.14 5 0.14	ON 23, WIRE DIVISION 23				26.	26 23 23 23 23 23 23	N S	NF SWBD	23 23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH	HED WITH EQUIF ISED IBOARD	PME
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER UNIT SOURT UNIT HEATER<	AY AY AY JRNISHED BY D 3, WIRING BETV RTER VFD FUR	120 120 120 120 120 120 120 120 120 0 120 12	1 1 1 1 1 1 1 1 1 1 1 2 0N 26, INST AC AND C ED AND INS RY WIRED	73W 16W 16W 1/12 HP 1/12 HP 16W 16W	0.6 0.14 0.14 1 1 0.14 1 0.14 5 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C	ID CONN	ECTED E		26.	26 23 23 23 23 23 23	N S F	NF SWBD BD	23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS	HED WITH EQUIF	PME
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER I PHASE TO 3 PHASE CONVER <td>AY AY AY JRNISHED BY D JRNISHED BY D A S, WIRING BETV RTER VFD FUR LE MOTORS F/ EP2.1 FOR WIR PN. PROVIDE N</td> <td>120 120 120 120 120 120 120 120 120 120</td> <td>1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 2 1 2 1</td> <td>73W 16W 16W 1/12 HP 1/12 HP 1/12 HP 16W TALLED E U PROVIE TALLED E FOR SINCE E REQUIR E GFI WE</td> <td>0.6 0.14 0.14 1 1 0.14 1 0.14 1 0.14 DED BY E BY DIVISI DED BY E BY DIV 2: GLE-POIN REMENTS EATHERP</td> <td>ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 3. OOF RECEP</td> <td>ID CONN ONNEC</td> <td>ECTED E</td> <td></td> <td>26.</td> <td>26 23 23 23 23 23 23</td> <td>N S F</td> <td>NF SWBD BD</td> <td>23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS</td> <td>HED WITH EQUIF ISED HBOARD HED BY DIVISION</td> <td>PME</td>	AY AY AY JRNISHED BY D JRNISHED BY D A S, WIRING BETV RTER VFD FUR LE MOTORS F/ EP2.1 FOR WIR PN. PROVIDE N	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 2 1 2 1	73W 16W 16W 1/12 HP 1/12 HP 1/12 HP 16W TALLED E U PROVIE TALLED E FOR SINCE E REQUIR E GFI WE	0.6 0.14 0.14 1 1 0.14 1 0.14 1 0.14 DED BY E BY DIVISI DED BY E BY DIV 2: GLE-POIN REMENTS EATHERP	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 3. OOF RECEP	ID CONN ONNEC	ECTED E		26.	26 23 23 23 23 23 23	N S F	NF SWBD BD	23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS	HED WITH EQUIF ISED HBOARD HED BY DIVISION	PME
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER I LEAD/LAG 2 DUCT SMOKE DETECTORS FL 3 POWER TO CU BY DIVISION 20 4 1 PHASE TO 3 PHASE CONVEI 5 UNIT IS CONSISTS OF MULTIP 6 REFER TO DETAIL D1/SHEET	AY AY AY AY JRNISHED BY D S, WIRING BETY RTER VFD FUR LE MOTORS FA EP2.1 FOR WIR N. PROVIDE N 3 PHASE CONY	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 2 3 3 3 3	73W 16W 16W 1/12 HP 1/12 HP 1/12 HP 16W TALLED E U PROVIE TALLED I FOR SINC E REQUIR E GFI WE HVAC EC	0.6 0.14 0.14 1 1 0.14 1 0.14 1 0.14 1 DED BY DIVISI DED BY DIV SED BY DIV 23 GLE-POIN REMENTS EATHERP QUIPMEN	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E		26.	26 23 23 23 23 23 23	N S F	NF SWBD BD	23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS	HED WITH EQUIF ISED HBOARD HED BY DIVISION	PME
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER I LEAD/LAG 2 DUCT SMOKE DETECTORS FL 3 POWER TO CU BY DIVISION 24 4 1 PHASE TO 3 PHASE CONVEL 5 UNIT IS CONSISTS OF MULTIP 6 REFER TO DETAIL D1/SHEET 7 CORD AND PLUG CONNECTIC 8 PROVIDE 3 #12, 1# 12G FROM	AY AY AY AY JRNISHED BY D S, WIRING BETY RTER VFD FUR LE MOTORS FA EP2.1 FOR WIR N. PROVIDE N 3 PHASE CONY	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 2 3 3 3 3	73W 16W 16W 1/12 HP 1/12 HP 1/12 HP 16W TALLED E U PROVIE TALLED I FOR SINC E REQUIR E GFI WE HVAC EC	0.6 0.14 0.14 1 1 0.14 1 0.14 1 0.14 1 DED BY DIVISI DED BY DIV SED BY DIV 23 GLE-POIN REMENTS EATHERP QUIPMEN	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E		26.	26 23 23 23 23 23 23	N S F	NF SWBD BD	23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS	HED WITH EQUIF ISED HBOARD HED BY DIVISION	PME
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER I LEAD/LAG 2 DUCT SMOKE DETECTORS FL 3 POWER TO CU BY DIVISION 24 4 1 PHASE TO 3 PHASE CONVEL 5 UNIT IS CONSISTS OF MULTIP 6 REFER TO DETAIL D1/SHEET 7 CORD AND PLUG CONNECTIC 8 PROVIDE 3 #12, 1# 12G FROM	AY AY AY AY JRNISHED BY D S, WIRING BETY RTER VFD FUR LE MOTORS FA EP2.1 FOR WIR N. PROVIDE N 3 PHASE CONY	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 2 3 3 3 3	73W 16W 16W 1/12 HP 1/12 HP 1/12 HP 16W TALLED E U PROVIE TALLED I FOR SINC E REQUIR E GFI WE HVAC EC	0.6 0.14 0.14 1 1 0.14 1 0.14 1 0.14 1 DED BY DIVISI DED BY DIV SED BY DIV 23 GLE-POIN REMENTS EATHERP QUIPMEN	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E		26.	26 23 23 23 23 23 23	N S F	NF SWBD BD	23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS	HED WITH EQUIF ISED HBOARD HED BY DIVISION	PME
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER I LEAD/LAG 2 DUCT SMOKE DETECTORS FL 3 POWER TO CU BY DIVISION 24 4 1 PHASE TO 3 PHASE CONVEL 5 UNIT IS CONSISTS OF MULTIP 6 REFER TO DETAIL D1/SHEET 7 CORD AND PLUG CONNECTIC 8 PROVIDE 3 #12, 1# 12G FROM	AY AY AY AY JRNISHED BY D S, WIRING BETY RTER VFD FUR LE MOTORS FA EP2.1 FOR WIR N. PROVIDE N 3 PHASE CONY	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 2 3 3 3 3	73W 16W 16W 1/12 HP 1/12 HP 1/12 HP 16W TALLED E U PROVIE TALLED E FOR SINCE E REQUIR E GFI WE HVAC EC HVAC EC	0.6 0.14 0.14 1 1 0.14 1 0.14 2 DED BY E BY DIVISI DED BY E BY DIV 2: GLE-POIN REMENTS CATHERP QUIPMEN QUIPMEN	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E	SY DIV 26	26.	26 23 23 23 23 23 23	N S F	NF SWBD BD	23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS	HED WITH EQUIF ISED HBOARD HED BY DIVISION	PME
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER I LEAD/LAG 2 DUCT SMOKE DETECTORS FL 3 POWER TO CU BY DIVISION 24 4 1 PHASE TO 3 PHASE CONVEL 5 UNIT IS CONSISTS OF MULTIP 6 REFER TO DETAIL D1/SHEET 7 CORD AND PLUG CONNECTIC 8 PROVIDE 3 #12, 1# 12G FROM	AY AY AY AY JRNISHED BY D S, WIRING BETY RTER VFD FUR LE MOTORS FA EP2.1 FOR WIR N. PROVIDE N 3 PHASE CONY	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1	73W 16W 16W 1/12 HP 1/12 HP 1/12 HP 16W TALLED E U PROVIE TALLED E FOR SINCE E REQUIR E GFI WE HVAC EC HVAC EC	0.6 0.14 0.14 1 1 0.14 1 0.14 2 DED BY E BY DIVISI DED BY E BY DIV 2: GLE-POIN REMENTS CATHERP QUIPMEN QUIPMEN	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E	SY DIV 26	OF M4 N4			NF SWBD BD CBD	23 23 23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS CONTRO	HED WITH EQUIF SED HBOARD OL WIRING BY DI	PME VISI
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER I UNIT HEATER DUCT SMOKE DETECTORS FL DUCT SMOKE DETECTORS FL POWER TO CU BY DIVISION 24 1 PHASE TO 3 PHASE CONVEL UNIT IS CONSISTS OF MULTIP REFER TO DETAIL D1/SHEET CORD AND PLUG CONNECTIC PROVIDE 3 #12, 1# 12G FROM PROVIDE 3 #10, 1# 10G FROM	AY AY AY AY JAY AY AY AY AY AY AY AY AY AY AY AY AY A	120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1	73W 16W 16W 1/12 HP 1/12 HP 16W ALLED E U PROVIE TALLED I FOR SINCE E GFI WE HVAC EC HVAC EC HVAC EC	0.6 0.14 0.14 1 1 0.14 0.14 0.14 0.14 0.14	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E	SY DIV 26	OF M4 N4	26 23 23 23 23 23 23		IF SWBD BD CBD	23 23 23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS CONTRO	HED WITH EQUIF ISED HBOARD OL WIRING BY DI ING BY DI	60 Ve
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER UNIT HEATER I UNIT HEATER DUCT SMOKE DETECTORS FL DUCT SMOKE DETECTORS FL POWER TO CU BY DIVISION 24 1 PHASE TO 3 PHASE CONVEI 5 UNIT IS CONSISTS OF MULTIP 6 REFER TO DETAIL D1/SHEET I 7 CORD AND PLUG CONNECTIC 8 PROVIDE 3 #12, 1# 12G FROM 9 PROVIDE 3 #10, 1# 10G FROM	AY AY AY AY JRNISHED BY D S, WIRING BETY RTER VFD FUR LE MOTORS FA EP2.1 FOR WIR N. PROVIDE N 3 PHASE CONY	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1	73W 16W 16W 1/12 HP 1/12 HP 16W ALLED E U PROVIE TALLED I FOR SINCE E GFI WE HVAC EC HVAC EC HVAC EC	0.6 0.14 0.14 1 1 0.14 0.14 0.14 0.14 0.14	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E		OF M4 N4			IF SWBD BD CBD	23 23 23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS CONTRO	HED WITH EQUIF SED HBOARD HED BY DIVISION OL WIRING BY DI	60 Ve
RP-1 RP-2 RP-3 UH-1 UH-2 UH-3 UH-4 UH-5 UH-6	RADIANT MF 2 PUMP-WORK B RADIANT MF 3 PUMP-WASH B UNIT HEATER UNIT	AY AY AY AY AY AY AY AY AY AY AY AY AY A	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1	73W 16W 16W 1/12 HP 1/12 HP 16W ALLED E U PROVIE TALLED I FOR SINCE E GFI WE HVAC EC HVAC EC HVAC EC	0.6 0.14 0.14 1 1 0.14 0.14 0.14 0.14 0.14	ON 23, WIRE DIVISION 23 3, WIRED AN IT POWER C 5. OOF RECEP T	ID CONN ONNEC	ECTED E	SY DIV 26	OF M4 N4			IF SWBD BD CBD	23 23 23 23 23 23 23 23 23 23 ABBF FURNIS NOT FU SWITCH FURNIS CONTRO	HED WITH EQUIF SED HBOARD HED BY DIVISION OL WIRING BY DI	60 Ve

							P1					
Notes:	Location: Supply From: MDP Mounting: Surfac	e				Volts Phases Wires		10 Singl	e		A.I.C. Rating: 30kA Mains Type: MLO Bus Rating: 225 A MCB Rating: 225 A	
СКТ	Circuit Description	Tri Am		les	A (k	VA)	B (ł	(VA)	Poles	Trip Amps	Circuit Description	скт
1	LTG-GARAGE BAY 8 FIXTURES	20		1	1.7	1.7			1	20	LTG-GARAGE BAY 8 FIXTURES	2
3	LTG-GARAGE BAY 4 FIXTURES	20		1			0.8	1.6	1	20	LTG-WASH BAY	4
5	LTG-101-108,201-205	20		1	0.8	1.2			1	20	DOOR OPERATOR	6
7	DOOR OPERATOR	20		1			1.2	1.2	1	20	DOOR OPERATOR	8
9	DOOR OPERATOR	20		1	1.2	1.2			1	20	DOOR OPERATOR	10
11	DOOR OPERATOR	20		1			1.2	1.1	1	20	RECEPTACLES	12
13	RECEPTACLES-MEZZANINE	20		1	1.1	1.0			1	20	RECEPTACLE-MEZZANINE	14
15	RECEPTACLE-MEZZANINE	20		1			1.0	0.7	1	20	RECEPTACLES- IT 203	16
17	DDC CONTROLLER POWER	20		1	0.2	0.7			1	20	RECEPTACLES	18
19	Power-HVAC Controls	20		1			0.5	1.1	1	20	RECEPTACLES	20
21	RECEPTACLE	20		1	1.0	1.0			1	20	RECEPTACLE	22
23	RECEPTACLES	20		1			1.3	1.4	1	20	RECEPTACLES	24
25	RECEPTACLES	20		1	1.4	0.5			1	20	Fire Alarm Control Panel	26
27	RECEPTACLES	20		1			0.7	1.1	1	20	RECEPTACLES	28
29	WATER PROCESSING RECEPTS	6 20		1	0.4	0.5			1	20	CORD REELS	30
31	CORD REELS	20		1			0.5	0.5	1	20	Power Space 4	32
33				0	2.4	2.4			0	50		34
35	WELDER	50	4	2			2.4	2.4	2	50	WELDER	36
37				0	2.4	2.4				50		38
39	WELDER	50		2			2.4	2.4	2	50	WELDER	40
41	Spare	20		1	0.0	0.0			1	20	Spare	42
	1 -		Total Lo	oad:	24.6		25.6	5 kW				I
			Total A		205			3 A	L			
Load C	Classification	Connected	Load	D	emand	Factor	Es	timated	Demand		Panel Totals	
Lighting	3	6210 V	A		125.0	0%		7762	VA			
	-			1								

Lighting	6210 VA	125.00%	7762 VA		
Power	9320 VA	100.00%	9320 VA	Total Conn. Load:	50.2 kW
Receptacle	34200 VA	64.62%	22100 VA	Total Est. Demand:	39.6 kW
				Total Conn.:	209 A
				Total Est. Demand:	165 A

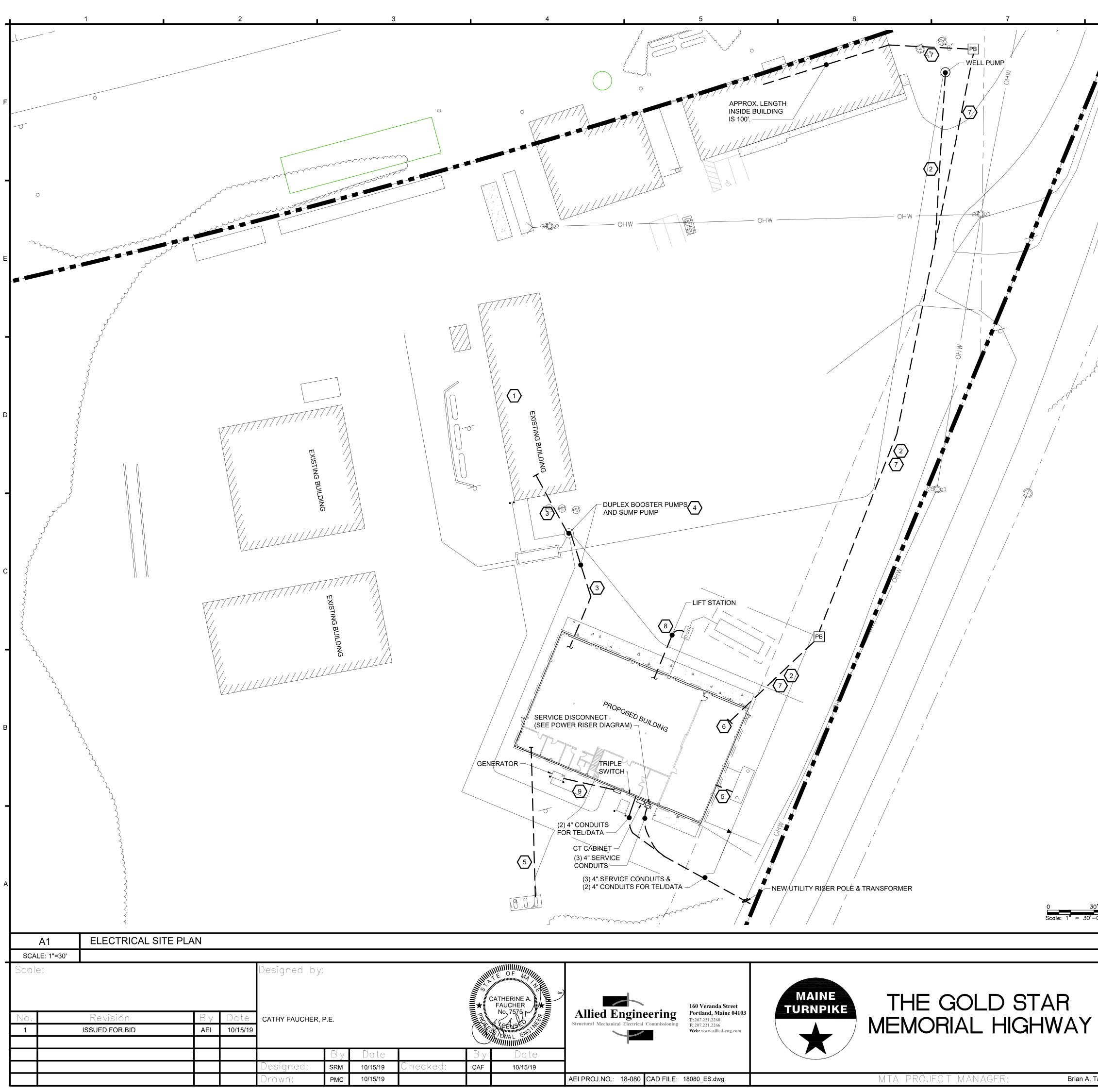


						P2						
lotes:	Location: MECH/ELE Supply From: MDP Mounting: Surface			Volts: Phases: Wires:		0 Single	e		A.I.C. Rating: 30kA Mains Type: MLO Bus Rating: 225 A MCB Rating: 225 A			
скт	Circuit Description	Trip Amps	Poles	A (k	:VA)	B (k	(VA)	Poles	Trip Amps	Circuit Description	СКТ	
1	PRESSURE WASHER	50	2	2.4	2.4		-	2	50	WELDER	2	
3			2			2.4	2.4	2			4	
5	CRANE CONTROLLER	20	1	0.2	0.2			1	20	RECEPTACLE	6	
7	RECEPTACLE	20	1			0.6	0.6	1	20	RECEPTACLE	8	
9	RECEPTACLE	20	1	0.6	1.2			2	20	2 POST LIFT	10	
11	DOOR OPERATOR	20	1			1.2	1.2				12	
13	HVAC-BOILER 1	20	1	0.5	1.0			1	20	HVAC-BOILER 2	14	
15	HVAC-AD-1	20	1			0.0	4.1	2	40	HVAC - BOOSTER PUMPS	16	
17	HVAC - SUMP PUMP	20	1	1.0	4.1						18	
19	Power - SUM PIT RECEPT/LGT	20	1			0.5	1.0	1	20	HVAC - SEPTIC PUMP	20	
21	HVAC - EF 1/EF2	20	1	0.9	1.4			2	20	HVAC - EF 3	22	
23	HVAC - EF-5	20	2			1.4	1.4				24	
25				1.4	1.4	0.0	4.4	2	20	HVAC - EF-6	26	
27 29	HVAC - ERV-1	20	2	0.6	0.3	0.6	1.4	1	20	HVAC - UNIT HEATERS 1-6	28 30	
29 31	HVAC - HWP-1	20	1	0.0	0.3	0.4	0.2	1	20 20		30	
31	HVAC - HWP-1 HVAC - HWP-2	20	1	0.4	0.7	0.4	0.2	1	20	HVAC - PUMPS RP1,RP2,RP3 HVAC - PUMPS P1,P2,DHW	32	
33 35	Lighting - EXTERIOR WALL LIGHTING		1	0.4	0.7	0.8	0.5	1	20	GENERATOR - STRIP HEATER	34	
35	GENERATOR - JACKET HEATER	20	1	0.5	0.5	0.0	0.0	1	20	GENERATOR - STRIP HEATER GENERATOR - BATTERY CHARGER	38	
39	Spare	20	1	0.0	0.5	0.0	0.0	1	20	Spare	40	
41	Spare	20	1	0.0	0.0	0.0	0.0	1	20	Spare	40	
41			tal Load:	21.8		20.7	′ k\//		20	opaie	42	
			otal Amp:		1 A	173]				
	Classification C	onnected Lo	ad D	emand		Est		Demand		Panel Totals		
IVAC		24308 VA		100.0			24308					
ighting	J	804 VA		125.0			1005			Total Conn. Load: 42.5 kW		
Power		5840 VA		100.0			5840			Total Est. Demand: 41.8 kW		
		44500 \/A	1	02.40	0/		4070	<u> </u>	1			
Recept	acle	11580 VA		93.18	5%0		1079	JVA		Total Conn.: 177 A Total Est. Demand: 174 A		

CONTRACT 2019.12, NEW MECHANICS GARAGE LITCHFIELD MAINTENANCE YARD, MILE MARKER 92.7 ELECTRICAL SCHEDULES

SHEET NUMBER: **EP-600**

Brian A. Taddeo, P.E. CONTRACT: 2019.12



Brian A. Taddeo, P.E.	CONTRACT:	2019.12

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ELECTRICAL SITE PLAN

8	9 10
	PROVIDE (2) SINGLE NEMA 5-20R GFI RECEPTACLES. WIRE AND CONNECT TO EXISTING 20A-1P CB IN BUILDING.
	PROVIDE (1) 2" CONDUIT WITH 2 #6, 1 #8G FOR POWER TO WELL PUMP.
	 CIRCUIT TO PANEL MDP. PROVIDE 1-1/2" EMPTY CONDUIT WITH PULL STRING FOR CONTROLS.
	CONTROL WIRING BY OTHERS.
	4 SUMP PUMP - PROVIDE WP GFI 20A, 120V AND 1" CONDUIT. CIRCUIT TO PANEL P2
	(2) BOOSTER PUMPS, 3HP EACH- PROVIDE 2 #8, 1 #10G WITHIN 1" CONDUIT. CIRCUIT TO PANEL P2, PROVIDE WEATHERPROOF WALL MOUNTED LED LIGHT AND GFI
	RECEPTACLE IN THE PIT AND A MANUAL LIGHT SWITCH INSIDE AT THE TOP OF THE PIT. PROVIDE 1" CONDUIT, WIRE AND CONNECT TO PANEL P2.
	5 1" EMPTY CONDUIT WITH PULL STRING FOR ALARM/MONITORING ALARM.
	6 STUB UP INTO IT ROOM.
	(1) 3" CONDUIT FOR FIBER BACKBONE. (1) SPARE 3" CONDUIT W/ PULL STRING. CONTRACTOR SHALL ROUTE TO IT ROOM IN EXISTING BUILDING AT LOCATION AS DIRECTED BY OWNER.
	8 SEPTIC PUMP- PROVIDE 1" CONDUIT AND WP GFI RECEPTACLE WIRED TO P2, 20A, 1P. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING FOR CONTROLS.
	 GENERATOR PROVIDE (3) 120V, 20A CIRCUITS FOR BATTERY, STRIP HEATER AND WATER JACKET HEATER. PROVIDE 1" CONDUIT, WIRE AND CONNECT TO PANEL P2. PROVIDE (2) 1" EMPTY CONDUIT WITH PULL STRING FOR GENERATOR CONTROL WIRING.
	E8 SITE KEYNOTES DO NOT SCALE
	OVERHEAD WIRING, TYPE AS INDICATED
	・シーク・ UTILITY POLE 「」 FUSED DISCONNECT SWITCH
	☑₁ FOSED DISCONNECT SWITCH □₁ NON-FUSED DISCONNECT SWITCH
	MOTOR
	GROUNDING SYSTEM
	J- JUNCTION BOX, WALL MOUNTED
	 ELECTRICAL MANHOLE, COORDINATE LOCATION WITH OTHER UNDERGROUND UTILITIES
	T PADMOUNT TRANSFORMER
	PB PULL BOX - SIZE AS REQUIRED
	P PEDESTAL LOCATION, PEDESTAL BY SERVICE PROVIDER, STUB UP (2) 2" CONDUITS WITH CONNECTORS AND BUSHINGS FROM HANDHOLE
	HANDHOLE, MINIMUM 18"x36"x24", SIZE PER NEC FOR NUMBER OF CONDUITS INSTALLED
	M METER & CT CABINET, PEDESTAL MOUNTED
	SINGLE POLE MOUNTED LIGHT
	SINGLE POLE HOMERUN: (2)#12+(1)#12G UNO, CONNECT TO PANEL INDICATED
	SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT, CONNECT TO PANEL INDICATED
	3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE
	SAME CONDUIT, CONNECT TO PANEL INDICATED AFF ABOVE FINISHED FLOOR (E) EXISTING ITEM TO REMAIN
	AFG ABOVE FINISHED GRADE (R) REMOVE ITEM AND DISPOSE OF PROPERLY
	BAS BUILDING AUTOMATION SYSTEM (ER) RELOCATED ITEM AT NEW
	CATV CABLE TV LOCATION
	CB CIRCUIT BREAKER (RL) REMOVE AND RELOCATE
	P/O PART OF MT MOUNT
	NEC NATIONAL ELECTRICAL CODE
	TEL TELEPHONE
	UNO UNLESS NOTED OTHERWISE
0' 60' -0"	WP WEATHERPROOF
- U '	WG WIREGUARD
	A8 SITE ELECTRICAL LEGEND & ABBREVIATION
	DO NOT SCALE
	DO NOT SCALE 2019.12, NEW MECHANICS GARAGE MAINTENANCE YARD, MILE MARKER 92.7