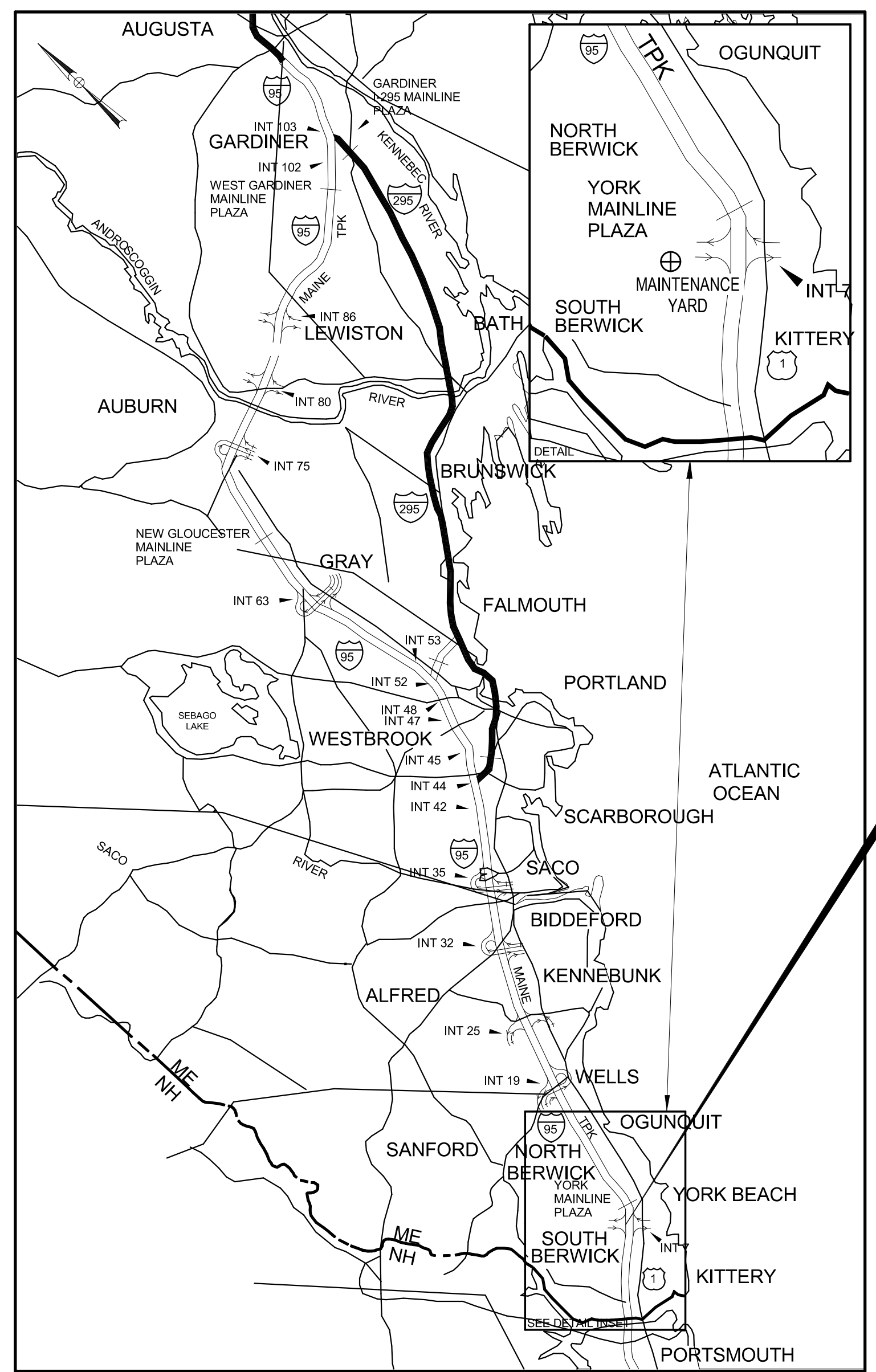




THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY



CONTRACT 2023.11
YORK VEHICLE STORAGE
MILE MARKER 6.8

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

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2023.11 YORK MAINTENANCE ELECTRICAL REPAIRS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
G-000	COVER SHEET
C-001	GENERAL NOTES
C-101	SITE, UTILITY, AND EROSION CONTROL PLAN
C-401	DETAILS - 1
E000	ELECTRICAL LEGENDS, GENERAL NOTES AND SCHEDULES
ES100	ELECTRICAL SITE PLAN
EP101	EXISTING MTA GARAGE BUILDING PLAN
EP500	POWER RISER DIAGRAM

Contract 2023.11

LOCATION MAP

Allied Engineering
Structural Mechanical Electrical Plumbing
160 Veranda Street
Portland, Maine 04103
P: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

APPROVED:

MAINE TURNPIKE AUTHORITY

Peter S. Merveld
PETER S. MERVELD, P.E.—CHIEF OPERATIONS OFFICER

Stephen R. Tartre
STEPHEN R. TARTRE, P.E.—DIRECTOR OF ENGINEERING

John W. Cannell
JOHN W. CANNELL, P.E.—DIRECTOR OF MAINTENANCE

9/26/23
DATE

9/26/23
DATE

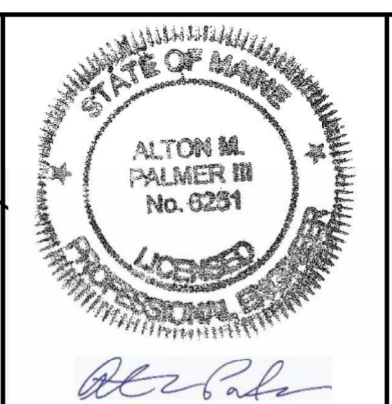
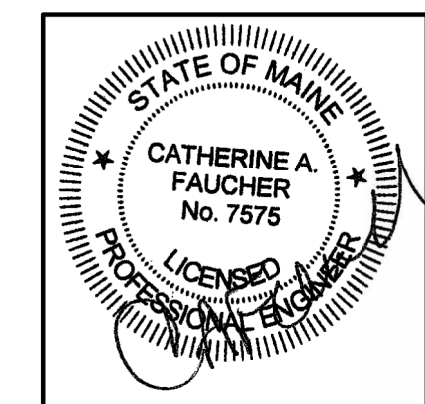
9/26/23
DATE

ISSUED FOR BID

William F. Faucher

WILLIAM F. FAUCHER, P.E. —
PRINCIPLE © ALLIED ENGINEERING, INC.

09-27-2023
DATE



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GENERAL

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES 2020 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, AS WELL AS A SEQUENCE OF WORK SCHEDULE, AT LEAST 10 DAYS PRIOR TO STARTING WORK. CONTRACTOR IS REQUIRED TO MAINTAIN SAFE ACCESS TO PARKING AREAS FOR MTA EMPLOYEES AT ALL TIMES DURING CONSTRUCTION.
4. DUST CONTROL IS INCIDENTAL TO CONTRACT.
5. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
6. 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.
7. CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND CADD FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, UTILITIES, DRAINAGE, FOUNDATIONS, WIRING, ETC.
8. SURVEY AND TOPOGRAPHY PROVIDED BY TITCOMB ASSOCIATES OF FALMOUTH, MAINE, DATED APRIL 23, 2020.
9. 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.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SPOIL/EXCESS MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.
11. ALL AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO PRIOR CONDITIONS AT NO EXPENSE TO THE OWNER.
12. BORING AND SOIL PROBE LOCATIONS TAKEN FROM GEOTECHNICAL REPORT PREPARED BY S.W. COLE DATED MAY 27, 2020.
13. AREAS OF CLEARING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.
14. DURING CONSTRUCTION, THE PROPANE TANKS SHALL BE PROTECTED BY A PHYSICAL BARRIER AT ALL TIMES, ON ALL SIDES.
15. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE THE AUTHORITY THREE HARD COPIES OF ALL O&M MANUALS ASSOCIATED WITH THE PROJECT AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT CONTAINING ALL O&M MANUALS IN A SINGLE FILE.
16. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE ONE HARD COPY AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT OF ALL APPROVED SUBMITTALS ASSOCIATED WITH THE PROJECT ORGANIZED BY WORK CATEGORY.

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. 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.
3. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
4. REMOVAL OF EXISTING PAVEMENT SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 8 INCHES.
5. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR THE REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.
6. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
7. ALL SITE DISTURBANCE WILL REMAIN WITHIN THE GRADING LIMITS SHOWN ON PLANS. NO IMPACT TO WETLANDS ARE AUTHORIZED.

UTILITY

1. 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.
4. THE CONTRACTOR SHALL NOTIFY ALL NONMEMBERS THROUGH WWW.OKtoDIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAGE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.
5. FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE, THE CONTRACTOR WILL GPS ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMARKING ALL MTA UNDERGROUND UTILITIES WHEN A DIG SAFE UTILITY LOCATE IS CALLED IN FOR THE PROJECT.
6. CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION AS APPROVED BY THE UTILITY OWNERS. SEE SPECIFICATIONS FOR REQUIRED UTILITY COORDINATION.
7. EXCEPT AS ALLOWED IN THE PROJECT SPECIFICATIONS OR APPROVED BY THE RESIDENT, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES.
8. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE THEM AT HIS OWN EXPENSE.
9. DURING CONSTRUCTION, THE PROPANE TANKS SHALL BE PROTECTED AT ALL TIMES.

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.
3. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS. SEEDING METHOD NO. 2 SHALL BE USED ON ALL OTHER AREAS.
4. NEWLY DISTURBED EARTH SHALL BE MULCHED PRIOR TO A RAIN EVENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED AS INCIDENTAL TO THE PROJECT.
5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
6. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.
7. TEMPORARY EROSION CONTROL BLANKET 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.
8. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODIBLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED ON FOR MORE THAN 7 DAYS. AREAS WITHIN 75 SHEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
9. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
10. PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND SEDIMENTATION BARRIERS.
11. WATER FROM DEWATERING SHALL BE PUMPED THROUGH A DIRT BAG (SEE DETAIL). DIRT BAG OUTLET LOCATION SHALL NOT BE WITHIN 50' OF AN EXISTING WETLAND. NO SEPARATE PAYMENT WILL BE MADE TO CONTRACTOR FOR PROVIDING

THE DIRT BAG, IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

PAVING

1. REFER TO THE SPECIAL PROVISIONS FOR INFORMATION REGARDING PAVEMENT AND TACK COAT SPECIFICATIONS.

Scale: N/A		Designed by: MATT RABASCO			
No.	Revision	By	Date		
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Designed:	By	Date	Checked:	By	Date
	MYR	10/10/23		AMP	10/10/23
Drawn:	CG	10/10/23			




GORRILL PALMER



THE GOLD STAR MEMORIAL HIGHWAY

CONTRACT 2023.11
YORK MAINTENANCE ELECTRICAL REPAIRS
GENERAL NOTES

SHEET NUMBER: C-001

CONTRACT: 2023.11 2 OF 8

CIVIL LEGEND

SYMBOL	DESCRIPTION
	EXISTING RIGHT-OF-WAY
	EXISTING SETBACK
	EXISTING EDGE OF PAVEMENT
	EXISTING TREELINE
	EXISTING CHAINLINK FENCE
	EXISTING GUARDRAIL
	EXISTING CONTOUR
	EXISTING BUILDING
	EXISTING UNDERGROUND GAS
	EXISTING OVERHEAD WIRE
	EXISTING UNDERGROUND CABLE
	EXISTING UNDERGROUND WATER
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND STORM DRAIN
	EXISTING CATCH BASIN
	EXISTING FREE STANDING SIGN
	EXISTING WATER SHUT OFF
	EXISTING LIGHT POLE
	EXISTING PROPANE TANK
	EXISTING UTILITY POLE
	EXISTING HYDRANT
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED SILT FENCE
	PROPOSED SAWCUT
	PROPOSED TEST PIT

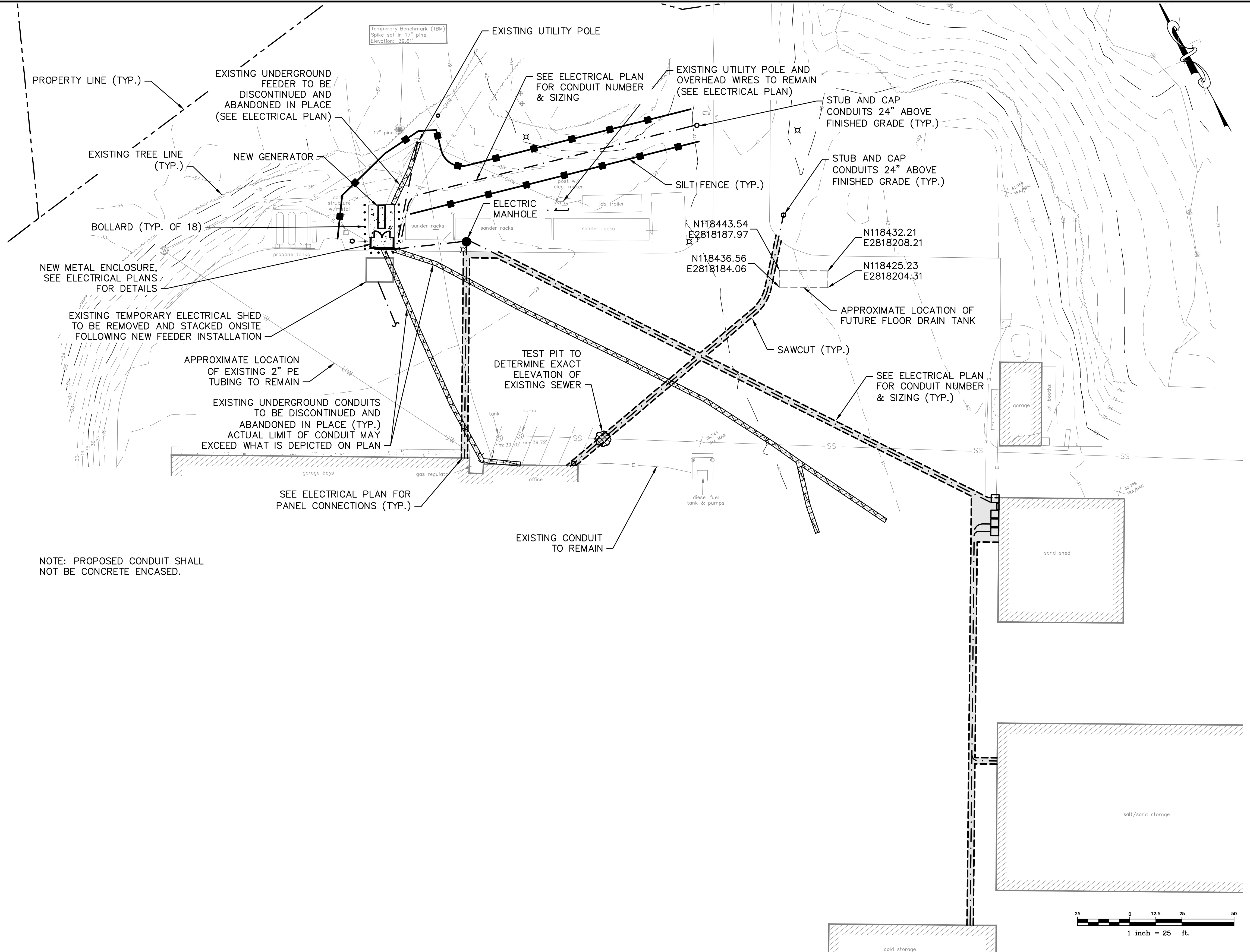
PAVEMENT LEGEND

	HEAVY DUTY BITUMINOUS PAVEMENT
--	--------------------------------

SITE PLAN NOTES

- NORTH IS REFERENCED TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83.
- ELEVATIONS ARE BASED ON GPS OBSERVATIONS, NAVD88 DATUM. BENCHMARK IS A SPIKE SET IN A 17" PINE LOCATED NORTHEASTERLY OF THE GENERATOR BUILDING. ELEVATION: 39.61'.
- UTILITY INFORMATION ON THIS PLAN IS APPROXIMATE, BASED ON LOCATION OF VISIBLE FEATURES.
- SEE BOUNDARY SURVEY AND EXISTING CONDITIONS PLAN PREPARED BY TITCOMB ASSOCIATES DATED APRIL 2020.
- LOCATIONS OF SAND STORAGE, SAND/SALT STORAGE, AND COLD STORAGE BUILDINGS ARE APPROXIMATE BASED ON "YORK MAINTENANCE FACILITY - SITE PLAN" BY HNTB DATED APRIL 1995.

NOTE: PROPOSED CONDUIT SHALL NOT BE CONCRETE ENCASED.



Scale: 1"=25'			
No.	Revision	By	Date
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Designed by: MATT RABASCO					
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Drawn:	CG	10/10/23	AMP	10/10/23	

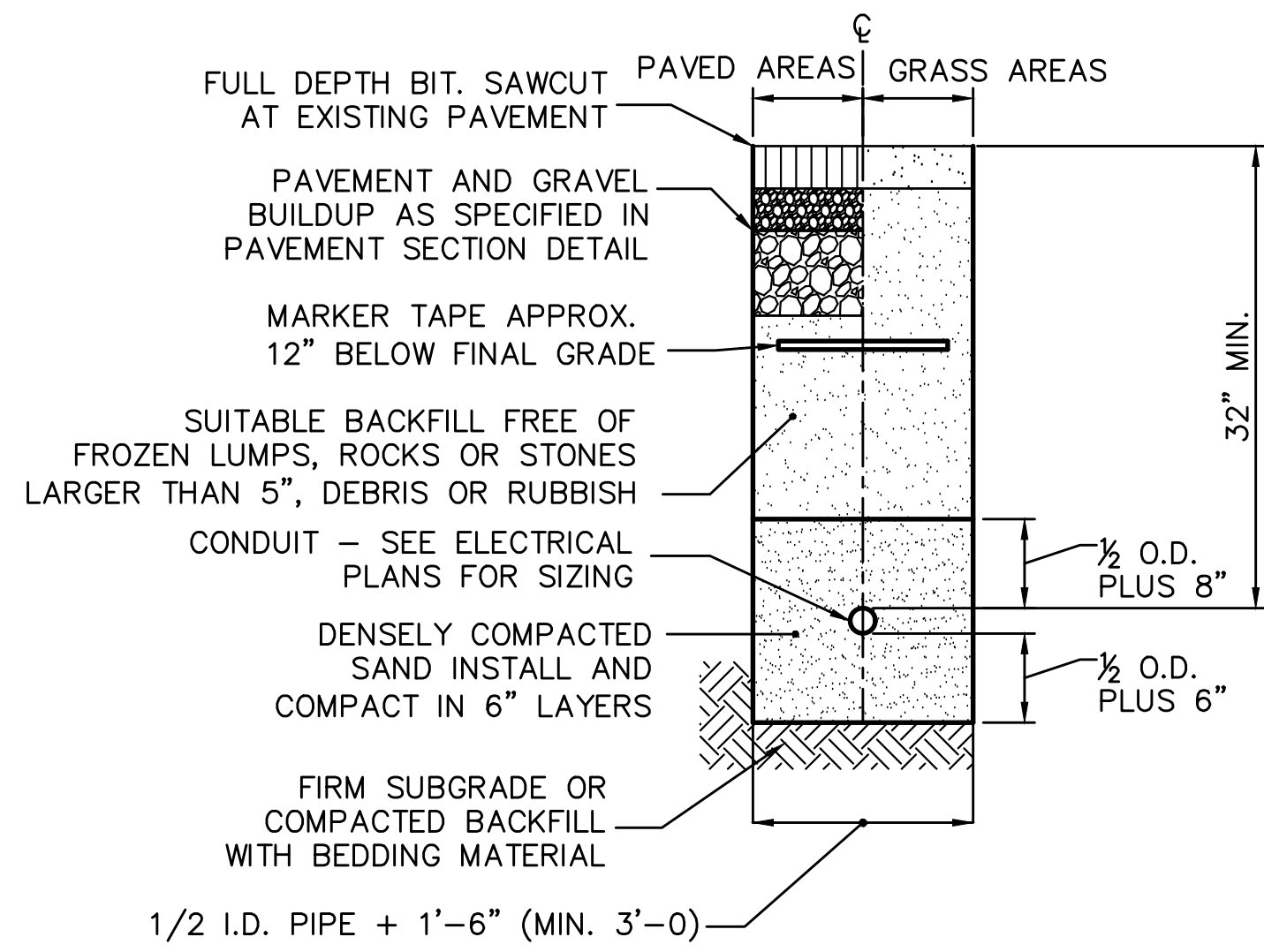
CONTRACT 2023.11
YORK MAINTENANCE ELECTRICAL REPAIRS
SITE, UTILITY, AND EROSION CONTROL PLAN

SHEET NUMBER: C-101

CONTRACT: 2023.11 3 OF 8

PROJ.NO.: 3660 CAD FILE: 3660-SP-P2.dwg

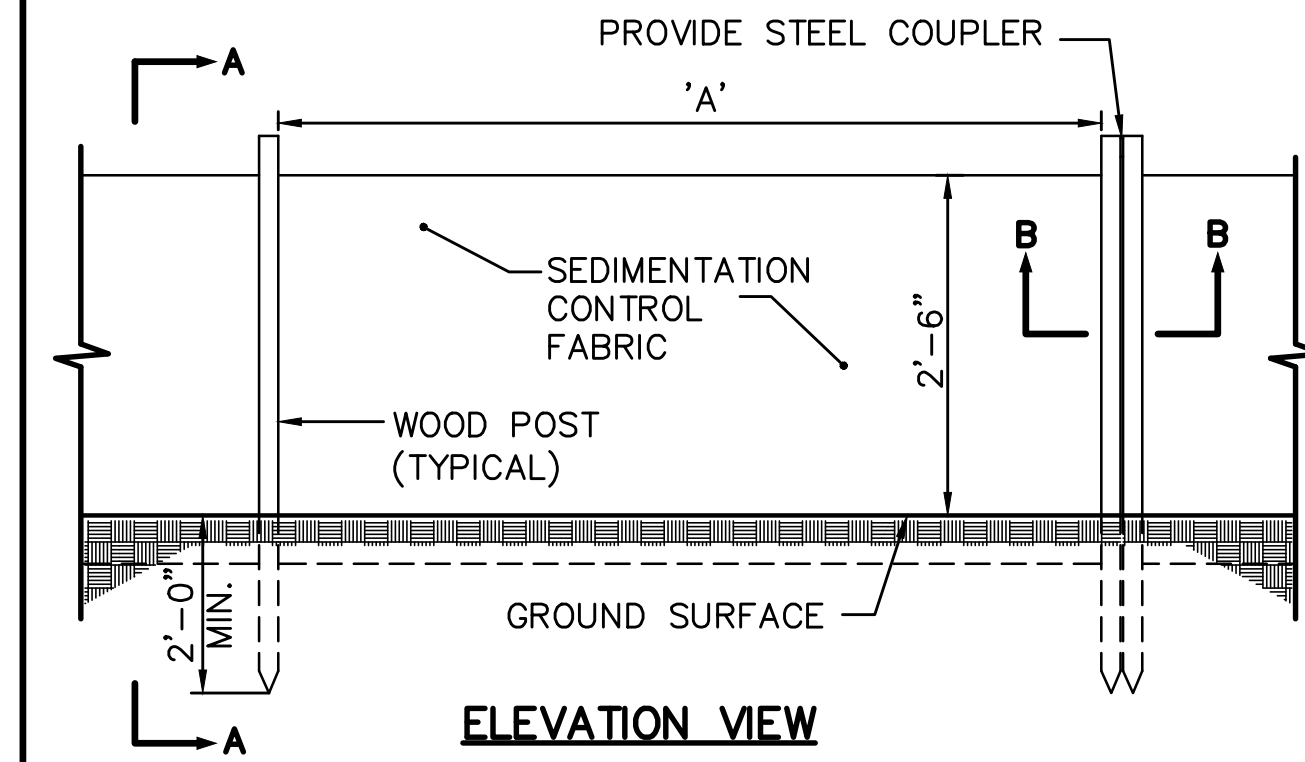
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.



UTILITY TRENCH – PRIMARY AND SECONDARY POWER

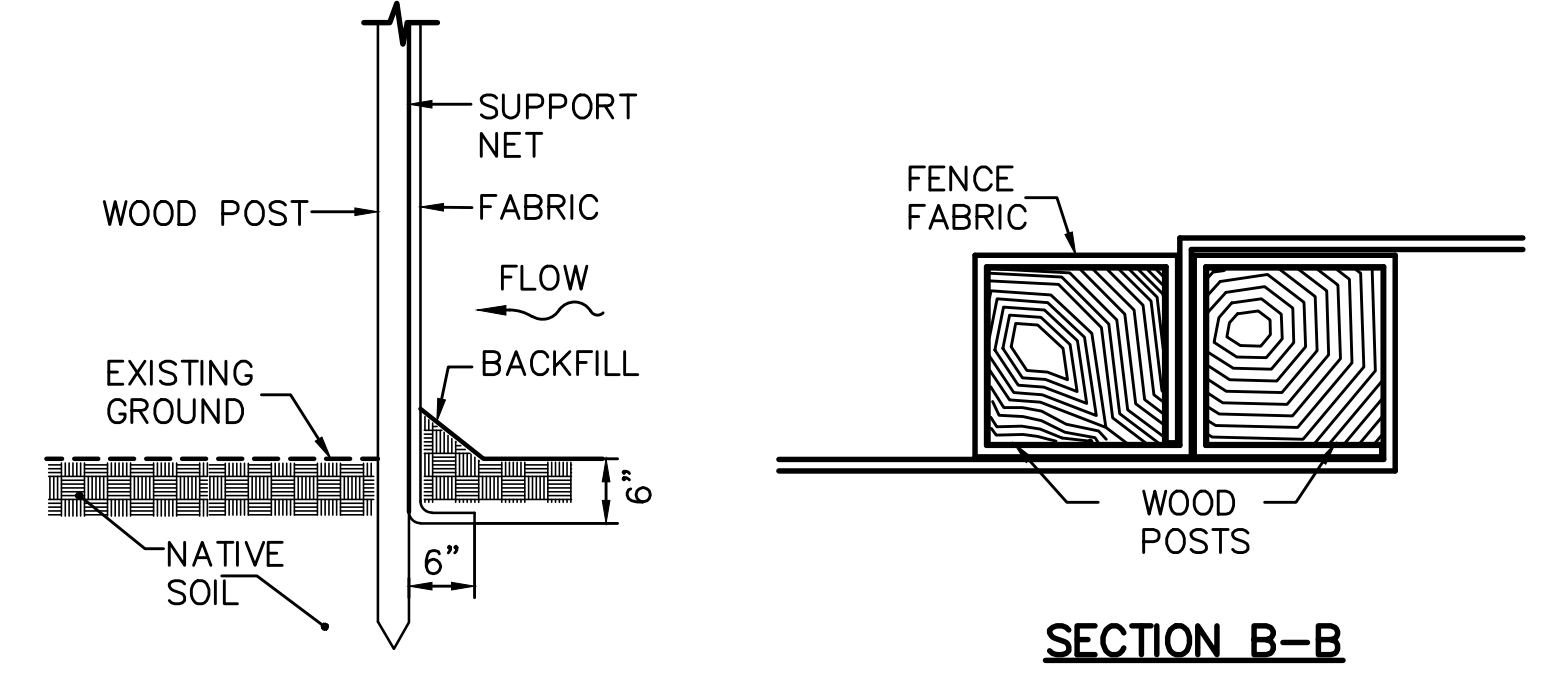
NOT TO SCALE

- NOTES:**
1. THE BEDDING SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY. USE HAND TAMPERS OR VIBRATORY COMPACTORS.
 2. CONTRACTOR SHALL SHORE TRENCH SIDES WHEN REQUIRED OR AS DIRECTED BY THE RESIDENT.
 3. CONTRACTOR TO INSTALL TRACER WIRE OVER PIPE.
 4. ADJACENT CONDUITS SHOULD BE SEPARATED HORIZONTALLY BY A MINIMUM OF 6".



ELEVATION VIEW

SILT FENCE	
SILT FENCE REINFORCEMENT	MAXIMUM SPACING "A"
NONE	6"
WIRE REINFORCEMENT 14 GAUGE, 6" MESH	10'



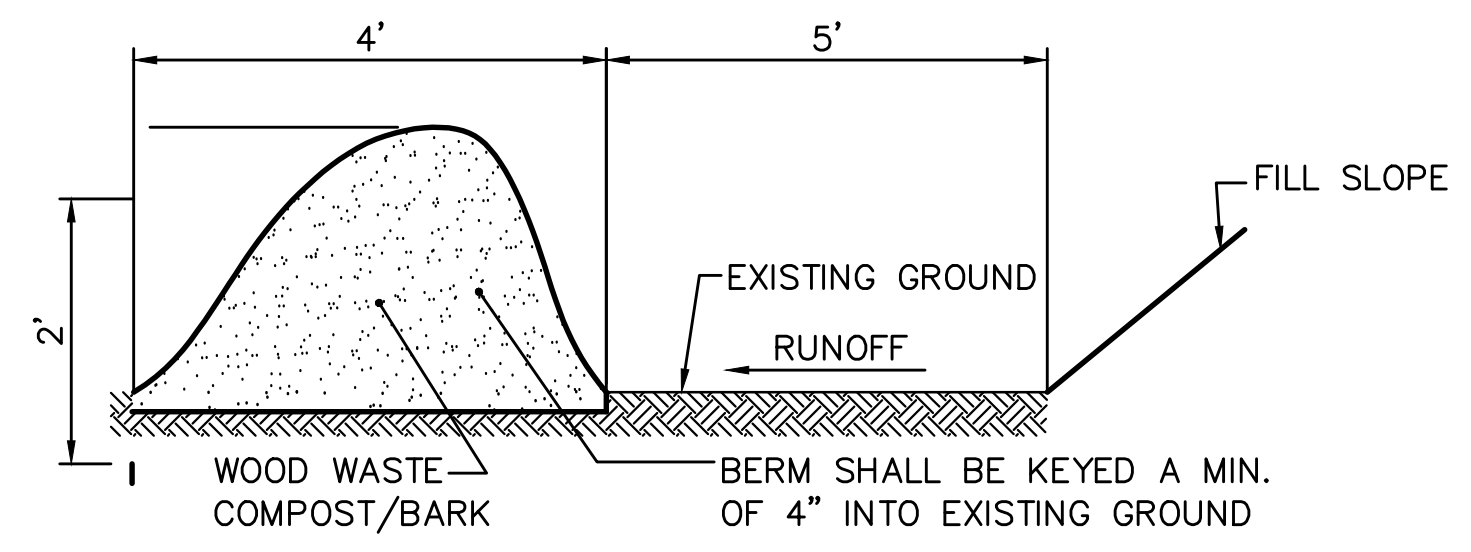
SECTION A-A

SECTION B-B

SILTATION FENCE DETAIL

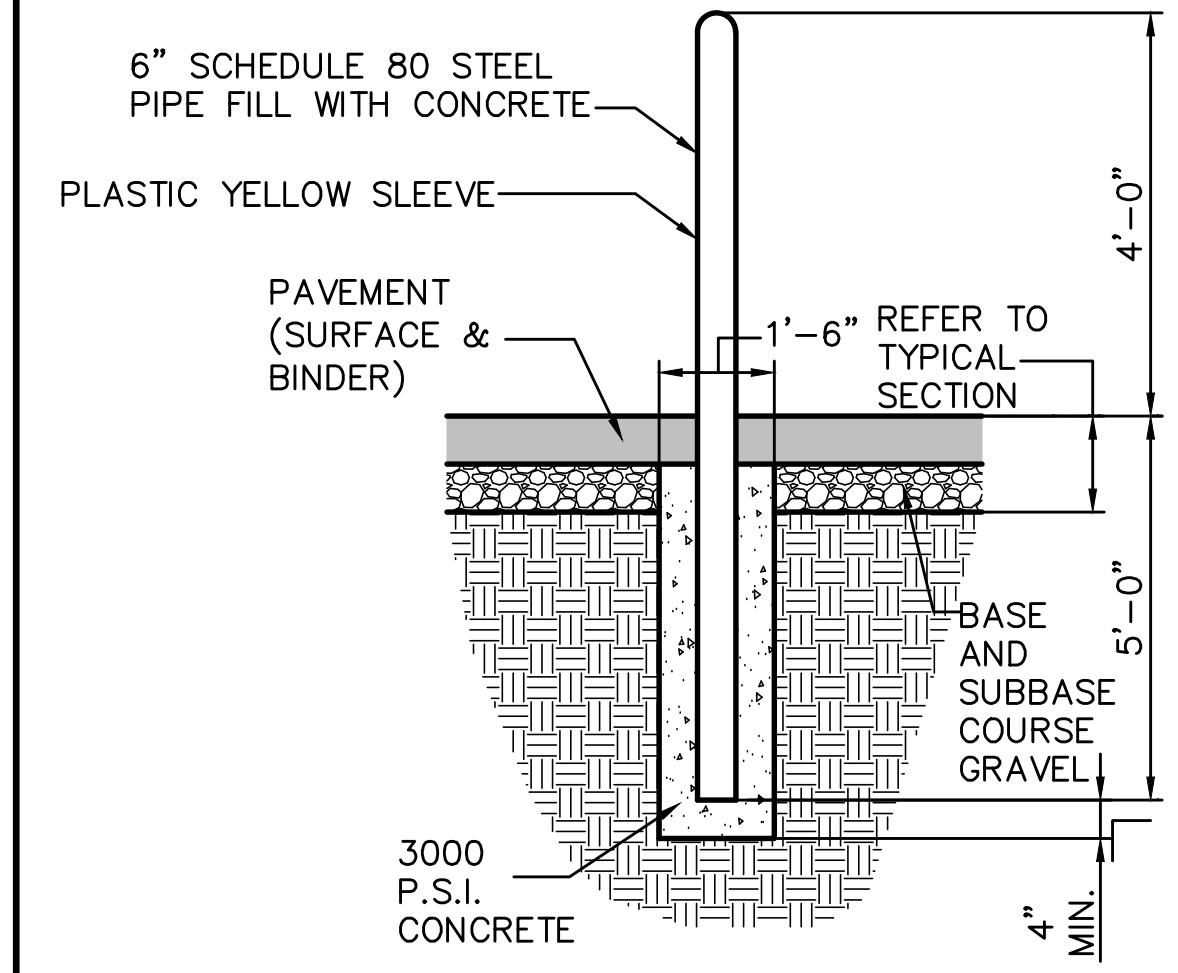
NOT TO SCALE

- NOTES:**
1. THE WOOD WASTE COMPOST/BARK MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - A. MOISTURE CONTENT – 30–60%.
 - B. pH – 5.0 – 8.0.
 - C. SCREEN SIZE – 100% LESS THAN 3", MAX. 70% LESS THAN 1".
 - D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION.
 - E. NO STONES LARGER THAN 2" IN DIAMETER.
 - F. SILTS, CLAYS OR SUGAR SANDS ARE NOT ACCEPTABLE IN THE MIX.
 2. THE COMPOST BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.
 3. THE WOOD WASTE COMPOST/BARK FILTER BERM MAY BE USED IN LIEU OF SILTATION FENCE, AT THE TOE OF SHALLOW SLOPES, ON FROZEN GROUND, LEDGE OUT CROPS, VERY ROOTED FORESTED AREA OR AT THE EDGE OF GRAVEL PARKING AREAS.
 4. BERMS SHALL REMAIN IN PLACE UNTIL UPSTREAM AREA IS COMPLETED OR 70% CATCH OF VEGETATION IS ATTAINED. BERMS SHALL BE REMOVED BY SPREADING SUCH THAT NATIVE EARTH CAN BE SEEN BELOW.
 5. WOODWASTE COMPOST BARK FILTER SHALL NOT BE USED IN WETLAND AREAS.



WOOD WASTE COMPOST/BARK FILTER BERM DETAIL

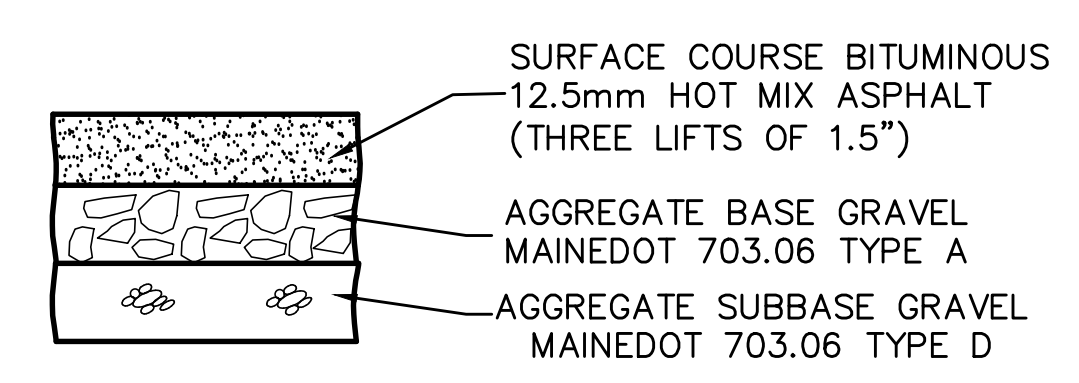
NOT TO SCALE



BOLLARD DETAIL

NOT TO SCALE

- NOTES:**
1. ALL REBAR SHOULD BE GRADE 60.
 2. 5,000 PSI TEST CONCRETE AT 28 DAYS.
 3. REINFORCEMENT SCHEDULE SHALL BE:
 - A. BOTTOM FACE #6'S @ 4" BOTH WAYS.
 - B. TOP FACE #3'S @ 8" BOTH WAYS.
 - C. AROUND FRAME #5'S @ 4".
 - D. STIRRUPS #4 @ 4"
 - E. VERTICAL REBARS SHALL BE #4 @ 18".
 - F. COVER PER SPECIFICATION D-751.
 4. SINGLE RACEWAY OPENINGS SHALL BE CORED IN FIELD TO FIT FIELD MEASUREMENTS.
 5. LABEL CABLES WITH TAGS FASTENED BY CLIPS AS THEY ARE PULLED THROUGH EACH STRUCTURE.

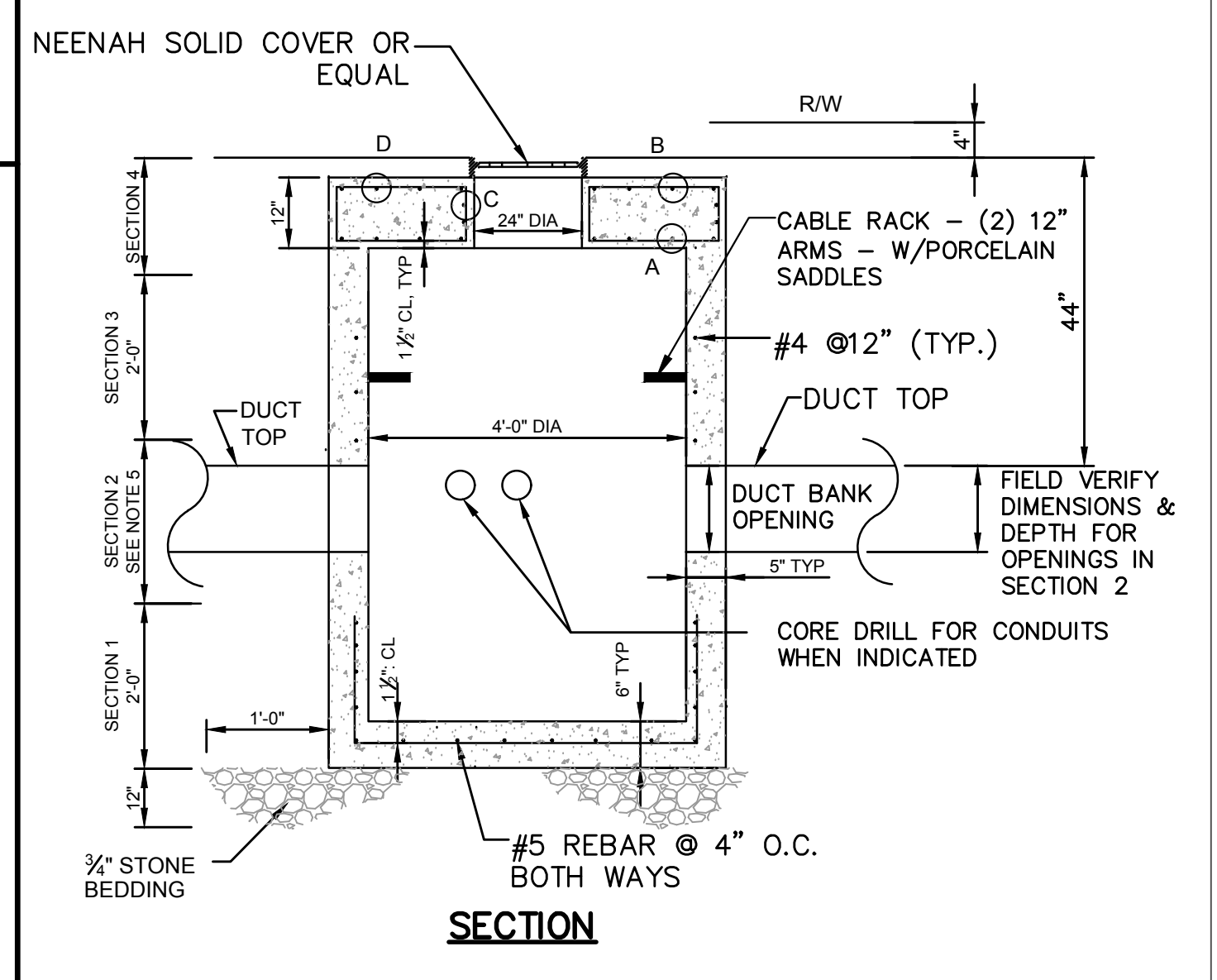


THICKNESS AND ORDER OF LAYERS	
4.5"	SURFACE COURSE BITUMINOUS 12.5mm HOT MIX ASPHALT
6"	AGGREGATE BASE GRAVEL MAINEDOT 703.06 TYPE A
15"	AGGREGATE SUBBASE GRAVEL MAINEDOT 703.06 TYPE D

HEAVY DUTY BITUMINOUS PAVEMENT SECTION

NOT TO SCALE

- NOTES:**
1. COMPACT SUBGRADE TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.
 2. IN AREAS OF NEW PAVEMENT THE CONTRACTOR SHALL PROVIDE FULL DEPTH GRAVEL CONSTRUCTION.



SECTION ELECTRIC MANHOLE

NOT TO SCALE

Scale: N/A

No.	Revision	By	Date
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Designed by: MATT RABASCO

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By	Date	By	Date
MYR	10/10/23	AMP	10/10/23
CG	10/10/23		

GORRILL PALMER

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

CONTRACT 2023.11

YORK MAINTENANCE ELECTRICAL REPAIRS

DETAILS

SHEET NUMBER: C-401

CONTRACT: 2023.11

4 OF 8

PROJ.NO.: 3660 CAD FILE: 3660-DETAILS-P2.dwg

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

1		2		3		4		5		6		7		8		9		10	
A	AMPERE	MC	MICROPHONE	PROJECT NOTES				INSTALLATION COORDINATION NOTES				WIRING NOTES				MOUNTING NOTES			
AC	ALTERNATING CURRENT	MW	MICROWAVE	1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED UNLESS OTHERWISE SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS. AND COORDINATION WITH ALL TRADES SCOPE OF WORK AS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING BOTH THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK REQUIREMENTS INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK, UNLESS SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS.				1. PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES, COORDINATE WITH THE GENERAL CONTRACTOR, EQUIPMENT SHOP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND ACCESSORIES FOR A COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E. POWER, CONTROL, INTERLOCK, ETC.				1. UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS; ALL CONDUCTORS, POWER DISTRIBUTION EQUIPMENT BUSING AND TRANSFORMER WINDINGS SHALL BE FABRICATED OF 98% CONDUCTIVE COPPER MATERIAL.				1. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.			
AF	ABOVE FINISHED FLOOR	MLO	METAL LUG ONLY	2. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.				2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.				2. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.				2. INSTALL ALL ELECTRICAL DEVICES (FIRE ALARM, SWITCHES, RECEPTACLES, WORK BOXES, JUNCTION BOXES, EXIT SIGNS, LUMINAIRES, ETC.) IN THE LOCATIONS IDENTIFIED OR DIMENSIONS ON THE ARCHITECTURAL PLANS, DETAILS, OR ELEVATIONS.			
AFG	ABOVE FINISHED GRADE	MT	MOUNT	3. WORK AT A MINIMUM SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODE AND AUTHORITIES. DO NOT INSTALL WORK THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. IF NECESSARY, REQUEST CLARIFICATION FROM ARCHITECT AND ENGINEER BEFORE PROCEEDING.				3. ELECTRICAL EQUIPMENT, RACEWAYS AND OUTLETS MOUNTED TO AND OR INSTALLED IN OWNER FURNISHED FURNITURE SHALL BE COORDINATED WITH THE EQUIPMENT AND FURNITURE INSTALLERS AND THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. EXCEPT WHERE INDICATED OR REQUIRED OTHERWISE.				3. BRANCH CIRCUIT WIRING NOT SHOWN, CIRCUITING SHALL IN ACCORDANCE WITH APPLICABLE CODES AND STANDARD PRACTICE. PROVIDE A 20A, 1P CIRCUIT BREAKER FOR EACH LIGHTING AND RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED OR NOTED. CONNECT NO MORE THAN SIX DUPLEX CONVENIENCE RECEPTACLES PER BRANCH CIRCUIT. CONNECTED LOAD ON LIGHTING CIRCUITS SHALL NOT EXCEED 12 AMPS.				3. IF THE DEVICE LOCATION IS NOT SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS, FOLLOW THE GUIDELINES LISTED BELOW:			
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH	4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER. RECTILINEAR TO BUILDING STRUCTURE.				4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.				4. ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE. ALL EXPOSED WIRING INCLUDING THAT WHICH IS INSTALLED ABOVE BUT IS VISIBLE FROM BELOW, PARTIALLY OR FULLY OPEN CEILING, SHALL BE INSTALLED IN CONDUIT OR RACEWAYS. REFER TO SPECIFICATIONS FOR ACCEPTABLE WIRING METHODS.				4. INSTALL NEARBY DEVICES ON ONE COMMON VERTICAL CENTERLINE.			
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL	5. ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS OR DETAILS, BUT NOT ON THE PLAN OR VICE VERSA SHALL BE INCLUDED AS IF SHOWN ON BOTH.				5. IF EXACT LOCATION, MOUNTING OR RACEWAY ROUTING ARE NOT INDICATED OR ARE NOT CLEAR OR CONFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND REQUEST CLARIFICATION PRIOR TO ROUGH-IN OR INSTALLATION. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OR EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.				5. WIRING AND CONDUIT SHALL BE REQUIRED FOR ALL SWITCHES, AND OUTLETS INDICATED WITH CIRCUIT NUMBERS. PROVIDE 1/2" CONDUIT, #12 UNLESS OTHERWISE INDICATED (1 PHASE, 1 NEUTRAL AND 1 GROUND). WIRE AND CONDUIT SIZES ON ALL RULINGS SHALL BE CONTINGENT THROUGHOUT CIRCUIT, REFER TO VOLTAGE DROP CHART ON SCHEDULE SHEET. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.				5. INSTALL ADJACENT TO DEVICES LINED UP WITH A COMMON BOTTOM LINE.			
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE	6. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR MENTIONED.				6. WHERE LOADS ARE ADDED TO EXISTING BRANCH CIRCUITS, VERIFY THAT THE EXISTING CIRCUITS HAVE ADEQUATE CAPACITY TO SUPPORT THE ADDITIONAL LOAD WITHOUT EXCEEDING SPECIFIED MAXIMUM LOAD.				6. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (PHASE AND NEUTRALS) AND GROUNDING CONDUCTOR. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE-PHASE RECEPTACLE OR LIGHTING CIRCUIT, UNLESS OTHERWISE INDICATED OR IF AN OVERSIZED NEUTRAL IS SPECIFIED. CIRCUITS WITH SHARED NEUTRALS SHALL BE PROVIDED WITH CIRCUIT BREAKERS THAT HAVE A COMMON TRIP (E.G. FURNITURE WHIPS)				6. INSTALL DEVICES AT INDICATED HEIGHT AS APPLICABLE UNLESS OTHERWISE NOTED. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT AS INDICATED BY NOTE 7.			
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL	7. VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE. SUBMIT ANY QUESTIONS REQUIRED TO CLARIFY SCOPE PRIOR TO BID. INCLUDE ALL REQUIRED WORK IN BID PRICE.				7. UNLESS OTHERWISE DIRECTED, PROVIDE ALL NEW POWER DISTRIBUTION EQUIPMENT WITH AIC RATINGS THAT MATCH OR EXCEED THE AIC RATING OF THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICE SERVING THE PANEL WHEN SERVED DIRECTLY BY ITS SOURCE (E.G. NO TRANSFORMER) OR PROVIDE AIC RATING THAT EXCEEDS BY 10% THE MAXIMUM LET THROUGH FAULT CURRENT (UNDER INFINITE PRIMARY BUSES) OF THE NEXT ACTIVE UPSTREAM TRANSFORMER (EXISTING OR NEW) SERVING THE RESPECTIVE PANEL.				7. MARK ALL CONDUITS AND JUNCTION BOXES WITH PERMANENT MARKER INDICATING PANEL AND CIRCUIT NUMBER OF CONDUCTORS CONTAINED WITHIN. LABEL WHERE CONDUITS ENTER PANELS, WIRE WAYS, PULL BOXES, ETC. LABEL EMPTY CONDUITS WITH SYSTEM (VOICE, DATA, SECURITY, ETC.) AND SOURCE OF CONDUIT.				7. ON MASONRY WALLS LINE UP THE BOTTOM OF THE DEVICE WITH A MASONRY JOINT AS CLOSE TO THE INDICATED HEIGHT AS PRACTICAL.			
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM	8. INCLUDE IN BID WHATEVER IS REQUIRED TO MEET SCHEDULE INCLUDING OVERTIME, EXPRESS SHIPPING, EXPEDITING EQUIPMENT, ETC. PLAN FOR PROJECT AND SUBMIT ORDER EQUIPMENT IN A TIMELY MANNER; EQUIPMENT SHALL BE BASED ON THE SPECIFIED EQUIPMENT.				8. ALL NEW PANELS SHALL BE FULLY RATED FOR THE DESIGNATED AIC VALUE. PANELS UTILIZING SERIES RATINGS WILL NOT BE ACCEPTABLE. NEW CIRCUIT BREAKERS PROVIDED IN EXISTING PANELS SHALL BE PROVIDED WITH AIC RATINGS THAT MATCH OR EXCEED THE HIGHEST RATED OVER-CURRENT PROTECTIVE DEVICE WITHIN THE RESPECTIVE EXISTING PANEL.				8. COORDINATE WITH OWNER TO DETERMINE WHICH RECEPTACLES AND ITEMS OF EQUIPMENT REQUIRE STANDBY GENERATOR POWER.				8. INSTALL DEVICES IN SAME AREA AT THE SAME HEIGHT.			
BKBD	BACKBOARD	N	NEUTRAL	9. ANY EQUIPMENT TO BE SUBSTITUTED SHALL BE IDENTIFIED AT THE TIME OF BID. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBSTITUTIONS.				9. SUBMIT SHORT CIRCUIT STUDY WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. IN THE STUDY DEMONSTRATE THAT THE AIC RATING SELECTIONS ARE PROPERLY INTERRELATED AND COORDINATED WITH THE EXISTING AND NEW POWER DISTRIBUTION EQUIPMENT. CONFIRM THAT THE AIC RATING SELECTIONS HAVE INCORPORATED THE AVAILABLE FAULT DUTY VALUES OBTAINED FROM THE UTILITY COMPANY FOR THE PROJECTS ELECTRICAL SERVICE POINT OF COMMON COUPLING.				9. ELECTRICAL WORK NOT SERVING STAIRWELLS SHALL NOT PASS THROUGH A STAIR ENCLOSURE UNLESS AN APPROVED RATED SOFFIT IS PROVIDED TO MAINTAIN FIRE AND SMOKE RATING.				9. MOUNT PANELS SIX FEET TO THE TOP OF THE PANEL OR ANNUNCIATOR/FA GRAPHIC.			
C	CONDUIT	NC	NORMALLY CLOSED	10. ALL ELECTRICAL DEVICES, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN APPLIED.				10. SUBMIT OVER-CURRENT PROTECTIVE DEVICE COORDINATION STUDY. FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH THE POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. INCLUDE THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICES, IN THE STUDY ANALYSIS, WHEN PROJECT IS WITHIN AN EXISTING FACILITY.				10. ALL RACEWAYS CROSSING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.				10. MOUNT AT 8 FOOT TO BOTTOM FOR SIGNAGE, EMERGENCY LIGHTING, CLOCKS, SECURITY SENSORS, WALL MOUNTED OCCUPANCY SENSORS MODIFIED AS FOLLOWS: 4" FROM TOP OF DEVICE TO CEILING AND 4" ABOVE DOOR FRAMES.			
CAT	CATALOG, CATEGORY	NEC	NATIONAL ELECTRICAL CODE	11. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS, INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, COMMISSIONING, APPROVALS AND CERTIFICATIONS.				11. TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED AS REQUIRED BY OSHA, CODES AND LOCAL AUTHORITIES. REMOVE ALL TEMPORARY FACILITIES PROVIDED AT PROJECT COMPLETION.				11. PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.				11. LOCATE CONTROL DEVICE AT LEAST 18" FROM AN INSIDE CORNER.			
CATV	CABLE TV	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	12. PROVIDE TRAINING TO OWNER ON ALL EQUIPMENT AND SYSTEMS INSTALLED.				12. SUBMIT ARC FLASH REPORT, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL.				12. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (FLOOR TO FLOOR) WALLS.				12. SUPPORT WORK FROM THE BUILDING STRUCTURE.			
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION																
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT																
CM	CIRCULAR MILS	NF	NON-FUSED																
COMM	COMMUNICATIONS	NO	NORMALLY OPEN																
CU	MECH CONDENSING UNIT	NO., #	NUMBER																
CU	COPPER	NTS	NOT TO SCALE																
CUH	CABINET UNIT HEATER	OC	ON CENTER																
CR	CORD REEL																		
DC	DIRECT CURRENT	OCC	OCCUPANCY																
DDC	DIGITAL DIRECT CONTROL	OH	OVERHEAD																
DN	DOWN	P	POLE																
DW	DISHWASHER	PA	PUBLIC ADDRESS																
DWG	DRAWING	PB	PULLBOX																
EF	EXHAUST FAN	PH, Ø	PHASE																
ELEV	ELEVATOR	PIR	PASSIVE INFRARED																
EMT	ELECTRICAL METALLIC TUBING	PNL	PANELBOARD																
EP	EXPLOSION PROOF	P/O	PART OF																
ERU	ENERGY RECOVERY UNIT	PV	PHOTOVOLTAIC																
EWC	ELECTRIC WATER COOLER	PVC	POLY-VINYL CHLORIDE																
FACP	FIRE ALARM CONTROL PANEL	REC	RECEPTACLE																
FB	FLOOR BOX	REF	REFRIGERATOR																
FLA	FULL LOAD AMPS	RF	RETURN FAN																
FWE	FURNISHED WITH EQUIPMENT	RGS	RIGID GALVANIZED STEEL																
G, GND	GROUND	RM	ROOM																
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RMC	RIGID METAL CONDUIT																
GFP	GROUND FAULT PROTECTION	RTU	ROOFTOP UNIT																
HID	HIGH INTENSITY DISCHARGE	REF	REFRIGERATOR																
HOA	HAND-OFF-AUTO SELECTOR SWITCH	SF	SUPPLY FAN																
HP	HORSEPOWER	SPDT	SINGLE POLE, DOUBLE THROW																
HVAC	HEATING, VENTILATION AND COOLING UNIT	SQ	SQUARE																
IDS	INTRUSION DETECTION SYSTEM	TEL	TELEPHONE																
IG	ISOLATED GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR																
IMC	INTERMEDIATE METAL CONDUIT	TYP	TYPICAL																
IR	INFRARED	UF	UNDER FLOOR																
K	KILO	UG	UNDERGROUND																
KCMIL	KILO CIRCULAR MILS	UH	UNIT HEATER																
KW	KILOWATT	UL	UNDERWRITER'S LABORATORY																
KVA	KILO VOLT-AMPS	UNO	UNLESS NOTED OTHERWISE																
LAN	LOCAL AREA NETWORK	UPS	UNINTERRUPTIBLE POWER SUPPLY																
LC	LIGHTING CONTACTOR	V	VOLTS																
LF	LINEAR FEET	VFD	VARIABLE FREQUENCY DRIVE																
LC	LOADCENTER	W	WATT																
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF																
LED	LIGHT EMITTING DIODE	WG	WIREGUARD																
LTG	LIGHTING	XFMR	TRANSFORMER																
LTS	LIGHTS																		
MAX	MAXIMUM	(E)	EXISTING ITEM TO REMAIN																
MCB	MAIN CIRCUIT BREAKER	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY																
MECH	MECHANICAL	(ER)	RELOCATED ITEM AT NEW LOCATION																
MH	MOUNTING HEIGHT	(RL)	REMOVE AND RELOCATE																

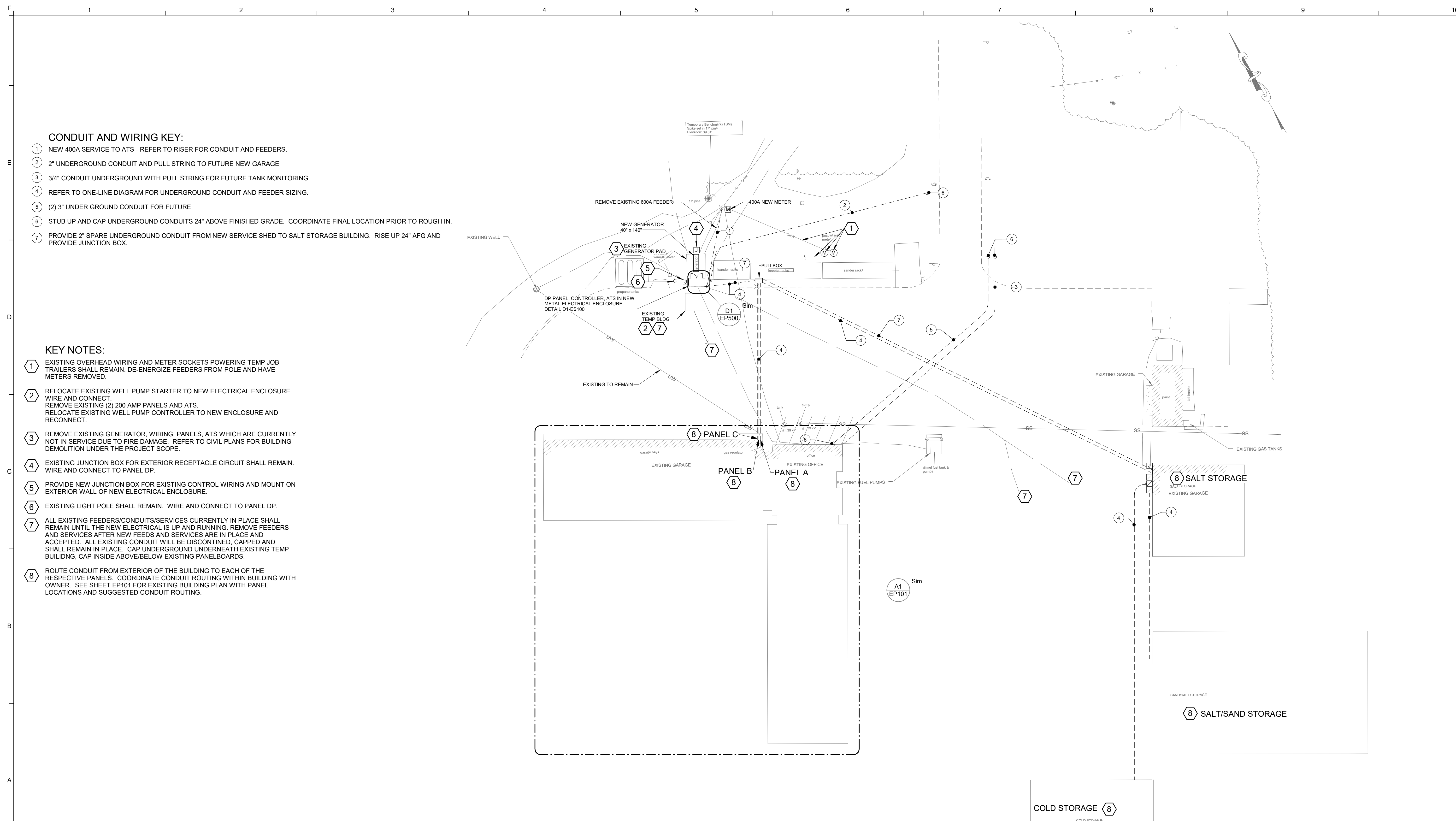
C3 ELECTRICAL GENERAL NOTES

<p>PANELBOARD - FLUSH MOUNTED PANELBOARD - SURFACE MOUNTED</p>	<p>DISCONNECT SWITCH</p>	<p>MOTOR OR FAN</p>	<p>JUNCTION BOX, CEILING OR WALL MOUNTED. MAKE CONNECTION TO RESPECTIVE EQUIPMENT. COORDINATE EXACT TERMINATION POINT IN FIELD OR THROUGH APPROVED SUBMITTALS.</p>	<p>TRANSFORMER - SEE TRANSFORMER SCHEDULE</p>	<p>MOTORIZED DOOR OPERATOR AND PUSH PADDLE - FURNISHED BY DIVISION 08, WIRED BY DIVISION 26</p>	<p>ENCLOSED CIRCUIT BREAKER</p>	<p>AUTOMATIC TRANSFER SWITCH</p>	<p>TRIPLE SWITCH FOR MANUAL TRANSFER FROM PERMANENT GENERATOR TO TEMPORARY ROLL-UP GENERATOR WITH CONNECTION (CAM-LOK) PROVISIONS FOR ROLL-UP UNIT (ESL OR EQUAL)</p>	<p>IN-GRADE PULL HOLE. REFER TO PLANS FOR REQUIRED SIZE</p>	<p>MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION</p>	<p>CONDUIT TURNING UP</p>	<p>CONDUIT TURNING DOWN</p>	<p>WIRING UNDERGROUND OR UNDERSLAB</p>
<p>EMERGENCY AND EXIT LIGHTING</p> <p>EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.</p> <p>EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.</p> <p>EMERGENCY BATTERY LIGHTING WITH INTERGRAL HEADS, MOUNT 7'-6" AFF. CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.</p> <p>DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF. CONNECT TO INDOOR EXIT SIGN BATTERY UNIT TO REMOTE CAPABILITY.</p> <p>SINGLE POLE SWITCH ON/OFF</p>													

VOLTAGE DROP CHART			
MAXIMUM LOAD (VA)	MAXIMUM LENGTH PER CONDUCTOR SIZE		
	#12	#10	#8
120 VOLT CIRCUITS			
800	155	245	390
1000	125	195	310
1200	105	165	260
1400	90	140	220
1600	80	125	195
1800	70	110	175
277 VOLT CIRCUITS			
2000	330	525	830
2500	265	420	665
3000	220	350	555
3500	190	300	475
4000	165	260	415

A1	ABBREVIATIONS	A3	POWER DISTRIBUTION	A5	LIGHTING
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Scale: 12" = 1'-0"	Designed by: CATHERINE A. FOUCHER		<p>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266 Web: www.allied-eng.com</p>		<p>THE GOLD STAR MEMORIAL HIGHWAY</p>	<p>CONTRACT 2023.11 YORK MAINTENANCE ELECTRICAL REPAIRS ELECTRICAL LEGENDS, GENERAL NOTES AND SCHEDULES</p>																		
<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Revision	By	Date					<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>CAF</td> <td>10/10/23</td> </tr> <tr> <td>PMC</td> <td>10/10/23</td> </tr> </tbody> </table>	By	Date	CAF	10/10/23	PMC	10/10/23	<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>CAF</td> <td>10/10/23</td> </tr> </tbody> </table>	By	Date	CAF	10/10/23	<p>ISSUED FOR BID - NOT FOR CONSTRUCTION</p>	<p>AEI PROJ.NO.: 20020 CAD FILE:</p>	<p>MTA PROJECT MANAGER: Brian A. Taddeo, P.E.</p>	<p>SHEET NUMBER: E000</p> <p>CONTRACT: 2023.11</p> <p>5 OF 8</p>
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CONDUIT AND WIRING KEY:

- ① NEW 400A SERVICE TO ATS - REFER TO RISER FOR CONDUIT AND FEEDERS.
- ② 2" UNDERGROUND CONDUIT AND PULL STRING TO FUTURE NEW GARAGE
- ③ 3/4" CONDUIT UNDERGROUND WITH PULL STRING FOR FUTURE TANK MONITORING
- ④ REFER TO ONE-LINE DIAGRAM FOR UNDERGROUND CONDUIT AND FEEDER SIZING.
- ⑤ (2) 3" UNDER GROUND CONDUIT FOR FUTURE
- ⑥ STUB UP AND CAP UNDERGROUND CONDUITS 24" ABOVE FINISHED GRADE. COORDINATE FINAL LOCATION PRIOR TO ROUGH IN.
- ⑦ PROVIDE 2" SPARE UNDERGROUND CONDUIT FROM NEW SERVICE SHED TO SALT STORAGE BUILDING. RISE UP 24" AFG AND PROVIDE JUNCTION BOX.

KEY NOTES:

- ① EXISTING OVERHEAD WIRING AND METER SOCKETS POWERING TEMP JOB TRAILERS SHALL REMAIN. DE-ENERGIZE FEEDERS FROM POLE AND HAVE METERS REMOVED.
- ② RELOCATE EXISTING WELL PUMP STARTER TO NEW ELECTRICAL ENCLOSURE. WIRE AND CONNECT. REMOVE EXISTING (2) 200 AMP PANELS AND ATS. RELOCATE EXISTING WELL PUMP CONTROLLER TO NEW ENCLOSURE AND RECONNECT.
- ③ REMOVE EXISTING GENERATOR, WIRING, PANELS, ATS WHICH ARE CURRENTLY NOT IN SERVICE DUE TO FIRE DAMAGE. REFER TO CIVIL PLANS FOR BUILDING DEMOLITION UNDER THE PROJECT SCOPE.
- ④ EXISTING JUNCTION BOX FOR EXTERIOR RECEPTACLE CIRCUIT SHALL REMAIN. WIRE AND CONNECT TO PANEL DP.
- ⑤ PROVIDE NEW JUNCTION BOX FOR EXISTING CONTROL WIRING AND MOUNT ON EXTERIOR WALL OF NEW ELECTRICAL ENCLOSURE.
- ⑥ EXISTING LIGHT POLE SHALL REMAIN. WIRE AND CONNECT TO PANEL DP.
- ⑦ ALL EXISTING FEEDERS/CONDUITS/SERVICES CURRENTLY IN PLACE SHALL REMAIN UNTIL THE NEW ELECTRICAL IS UP AND RUNNING. REMOVE FEEDERS AND SERVICES AFTER NEW FEEDS AND SERVICES ARE IN PLACE AND ACCEPTED. ALL EXISTING CONDUIT WILL BE DISCONTINUED, CAPPED AND SHALL REMAIN IN PLACE. CAP UNDERGROUND UNDERNEATH EXISTING TEMP BUILDING, CAP INSIDE ABOVE/BELOW EXISTING PANELBOARDS.
- ⑧ ROUTE CONDUIT FROM EXTERIOR OF THE BUILDING TO EACH OF THE RESPECTIVE PANELS. COORDINATE CONDUIT ROUTING WITHIN BUILDING WITH OWNER. SEE SHEET EP101 FOR EXISTING BUILDING PLAN WITH PANEL LOCATIONS AND SUGGESTED CONDUIT ROUTING.

A1 ELECTRICAL SITE PLAN

1" = 30'-0"

Scale:
1" = 30'-0"

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MAINE TURNPIKE
THE GOLD STAR MEMORIAL HIGHWAY

CONTRACT 2023.11
YORK MAINTENANCE ELECTRICAL REPAIRS
ELECTRICAL SITE PLAN

No.	Revision	By	Date
1	ISSUED FOR ADDENDUM No. 2	AEI	05/05/2023

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	Checked:	By	Date
CAF	10/10/23	CAF	CAF	10/10/23
PMC	10/10/23			

AEI PROJ.NO.: 20020 CAD FILE:

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

CONTRACT: 2023.11 SHEET NUMBER: ES100 6 OF 8

LUMINAIRE SCHEDULE- KEY NOTE 1,2									
TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER - SEE KEY NOTE 1	MOUNTING	VOLTS	LAMP/LIGHT ENGINE			KEY NOTES
						WATTS	DELIVERED...	TYPE	
EL1	EMERGENCY BATTERY LIGHT	SURELITES	APEL	WALL 7'-6" AFF	120VAC/12VDC	.33W		LED	
EL2	EMERGENCY REMOTE HEADS - EXTERIOR WET LOCATION	SURELITES	APWR-2	WALL 9' AFF	120VAC/12VDC	.78W		LED	
EX1	EXIT LIGHT WITH EMERGENCY HEADS	SURELITES	APCH7R	MOUNT 7'-6" AFF	120VAC/12VDC	1.31W		LED	3
EX2	EXIT LIGHT - NO EMERGENCY HEADS	SURELITES	APX7R	MOUNT 7'-6" AFF	120VAC/12VDC	.99W		LED	3

KEY NOTES

1 **NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED.**

2 VERIFY CEILING STRUCTURE AND MOUNTING HEIGHT PRIOR TO ORDERING ANY LIGHT FIXTURES.

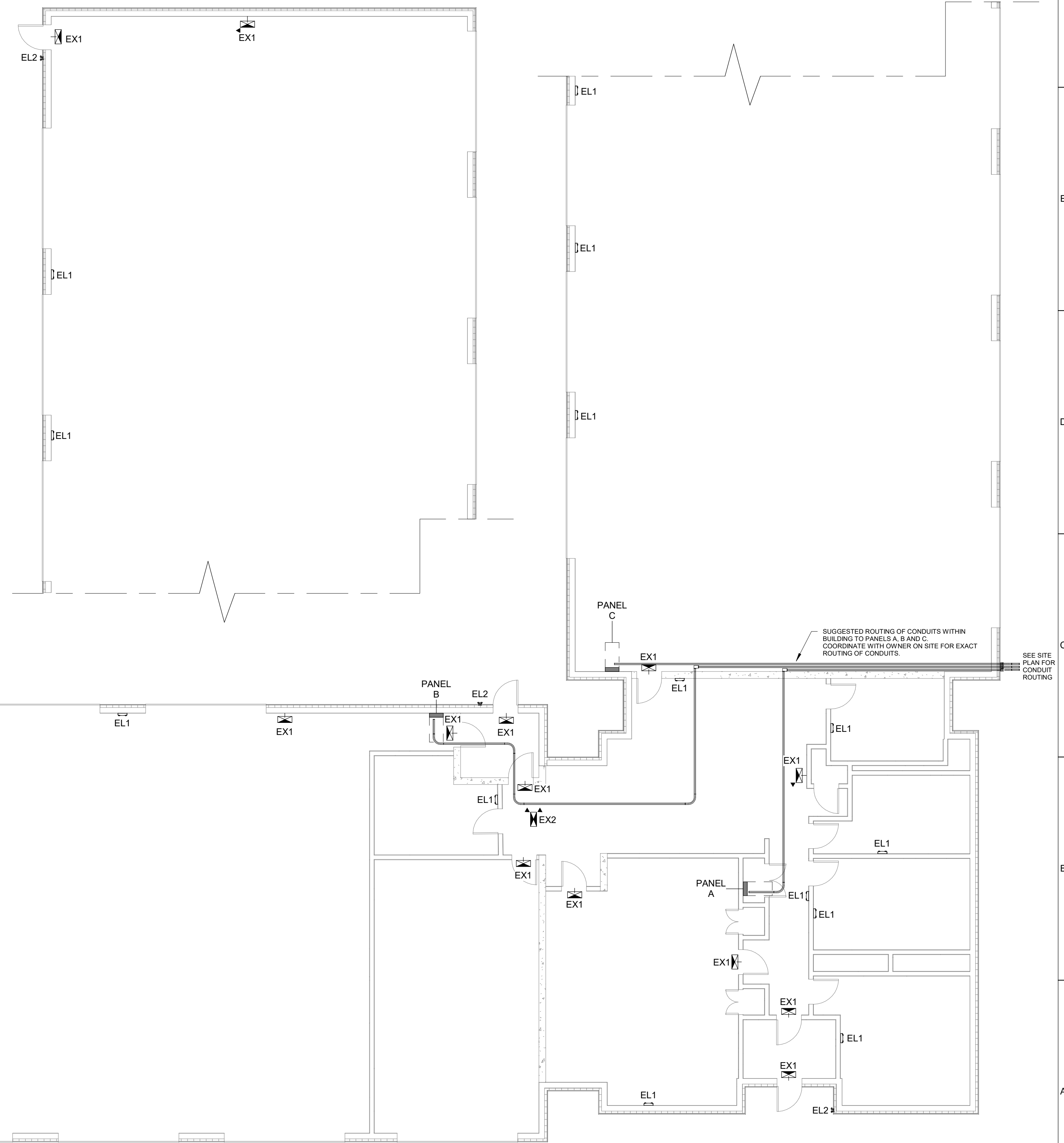
3 PROVIDE WALL, CEILING, OR PENDANT MOUNTING AS INDICATED ON PLANS. PROVIDE NUMBER OF FACES AND ARROWS AS INDICATED.

EMERGENCY LIGHTING NOTES:

ALL NEW EMERGENCY LIGHTING SHALL BE CIRCUITED TO EXISTING LIGHTING CIRCUITS.

FIXTURES TO BE CIRCUITED TO CLOSEST AVAILABLE LIGHTING CIRCUIT AHEAD OF ANY LIGHTING SWITCHING.

ALL NEW EMERGENCY DEVICES REQUIRE CONSTANT POWER.



A1 EXISTING BUILDING/GARAGE PLAN

1/8" = 1'-0"

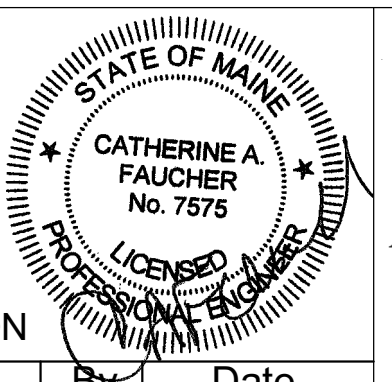
Scale:			
1/8" = 1'-0"			
No.	Revision	By	Date

Designed by:

CATHERINE A. FAUCHER

ISSUED FOR BID - NOT FOR CONSTRUCTION

Designed:	By	Date	Checked:	By	Date
	CAF	10/10/23		CAF	10/10/23
Drawn:	By	Date			
	PMC	10/10/23			



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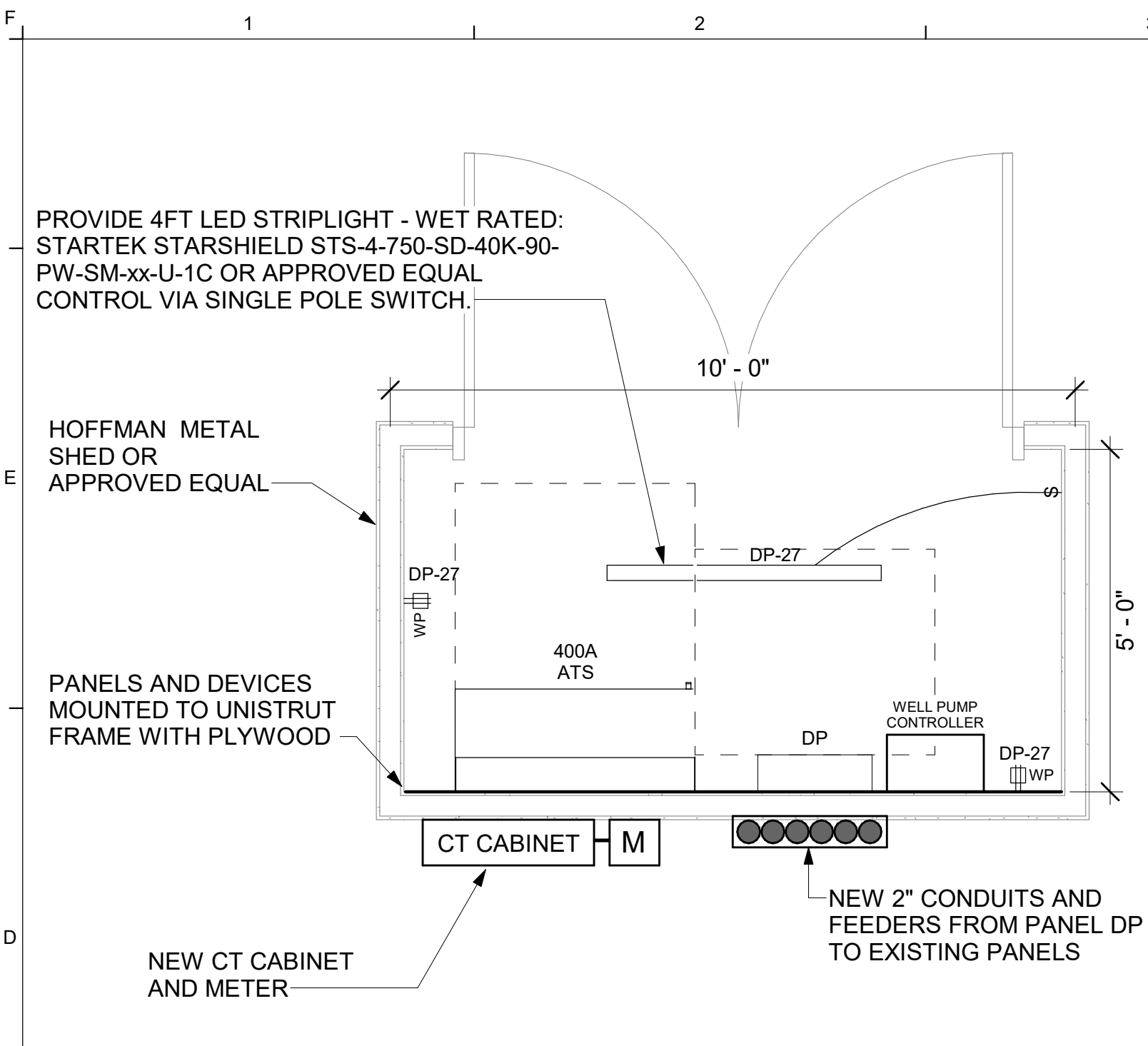


**THE GOLD STAR
MEMORIAL HIGHWAY**

**CONTRACT 2023.11
YORK MAINTENANCE ELECTRICAL REPAIRS
EXISTING MTA GARAGE BUILDING PLAN**

AEI PROJ.NO.: 20020 CAD FILE: MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT: 2023.11 SHEET NUMBER: EP101 7 OF 8



D1 ELECTRICAL ENCLOSURE ENLARGEMENT
1/2" = 1'-0"

Lighting and Appliance Panelboard: DP

Location: _____
Supply From: _____
Mounting: Surface

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22kAIC
Mains Type: MLO
Bus Rating: 400 A
MCB Rating: _____

CKT	Circuit Description	Trip Amps	Poles	A (kVA)	B (kVA)	Poles	Trip Amps	Circuit Description	CKT	
1	EXISTING BUILDING PANEL A ①	125	2	0	0	2	125	EXISTING BUILDING PANEL B ①	2	
3	EXISTING BUILDING PANEL C ①	175	2	0	17.9	2	200	MDP - FUTURE NEW BUILDING	4	
5	EXISTING BUILDING PANEL C ①	175	2	0	17.9	2	200	MDP - FUTURE NEW BUILDING	6	
7	EXISTING BUILDING PANEL C ①	175	2	0	17.9	2	200	MDP - FUTURE NEW BUILDING	8	
9	Spare	50	2	0	0	2	60	(E) SALT STOR - PANEL SB ①	10	
11	Spare	50	2	0	0	2	60	(E) SALT STOR - PANEL SB ①	12	
13	(E) SAND/SALT STOR-PANEL SSB ①	60	2	0	0	2	60	(E) COLD STOR SHED-PANEL CSB ①	14	
15	(E) SAND/SALT STOR-PANEL SSB ①	60	2	0	0	2	60	(E) COLD STOR SHED-PANEL CSB ①	16	
17	Spare	20	2	0	0	2	50	EXISTING WELL PUMP ①	18	
19	Spare	20	2	0	0	2	50	EXISTING WELL PUMP ①	20	
21	EXISTING RECEPTACLE	20	1	0	0	1	20	GEN BATTERY CHARGER	22	
23	GENERATOR START	20	1	0	0	1	20	Spare	24	
25	GEN JACKET WH/STRIP HEATER	20	1	0	0	1	20	Spare	26	
27	Receptacle	20	1	0	0.4	0	1	20	Spare	28
29	Spare	20	1	0	0	1	20	Spare	30	
31	Spare	20	1	0	0	1	20	Spare	32	
33	Spare	20	1	0	0	1	20	Spare	34	
35	Spare	20	1	0	0	1	20	Spare	36	
37	Spare	20	1	0	0	1	20	Spare	38	
39	Spare	20	1	0	0	1	20	Spare	40	
41	Spare	20	1	0	0	1	20	Spare	42	
Total Load:				17.9 kVA	17.3 kVA					
Total Amp:				149 A	144 A					

Notes:
① REFEEDING EXISTING PANELS ACROSS THE SITE WITH NEW FEEDERS.

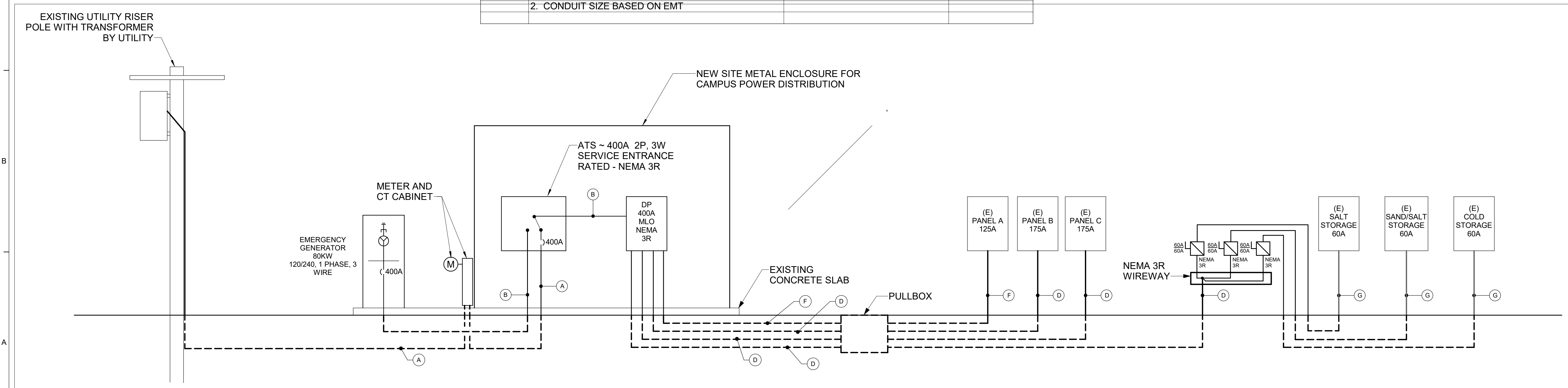
THREE PHASE AND SINGLE PHASE CIRCUIT SCHEDULE NOTES

- UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CONDUCTORS AND RACEWAY WHERE INDICATED.
- PROVIDE TYPE AND MINIMUM SIZE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATION OR ON THE DRAWINGS.
- PROVIDE NEUTRAL IN CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
- MINIMUM SIZE CONDUIT FOR SCHEDULE 80 OR EMT IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE. DO NOT INSTALL PVC INDOORS.
- PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT.
- PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTOR SAME SIZE AS THE EQUIPMENT GROUND. IN CIRCUITS TO ISOLATED GROUND PANELS OR DEVICES, GREEN WITH YELLOW STRIPE.
- FOR PANELS WITH 200% NEUTRAL PROVIDE 200% NEUTRAL USING TWO PHASE SIZED CONDUCTORS IF SIZE 1/0 OR LARGER, OTHERWISE PROVIDE (1) 3/0 NEUTRAL.
- PROVIDE SEPARATE INDIVIDUAL NEUTRAL FOR ALL CIRCUITS EXCEPT LIGHTING CIRCUITS. PROVIDE A DEDICATED NEUTRAL FOR GFCI AND AFCI CIRCUITS.
- CIRCUIT SIZING BASED ON 600 VOLT 90 DEGREE (C) RATED INSULATION. INTERIOR TYPE THHN/THWN OR XHHW-2 (LARGER THAN SIZE #6), FOR EXTERIOR OR BELOW GRADE UTILIZE RHW-2/USE-2 IN CONDUIT ONE SIZE LARGER. SIZING BASED ON 60 DEGREE (C) FOR AMPACITIES 100A OR LESS AND 75 DEGREE (C) AMPACITIES OVER 100A.
- FOR SERVICE ENTRANCE CONDUCTORS IT IS NOT REQUIRED TO INSTALL THE GROUNDING CONDUCTOR. THE NEUTRAL CONDUCTOR IS FULL SIZED AND IS BONDED TO THE GROUNDING ELECTRODE CONDUCTOR AT THE TRANSFORMER AND THE SERVICE DISCONNECT.
- FOR BATTERY CABLES, INSTALL AND GROUP IN PAIRS (ONE POSITIVE AND ONE NEGATIVE CONDUCTOR). MARK POSITIVE CONDUCTOR WITH (5) OVERLAPPING WRAPS OF RED ELECTRICAL TAPE ON EACH END.

FEEDER SCHEDULE

TAG	DESCRIPTION	CONDUCTORS (NOTE 1)	CONDUIT (NOTE...)
(A)	400 AMP SECONDARY FEEDER	(3) #500 KCMIL	3 1/2"
(B)	400 AMP FEEDER	(3) #500 KCMIL & (1) #3G	3 1/2"
(C)	NOT USED		
(D)	175 AMP FEEDER	(3) #2/0 & (1) 6G	2"
(E)	125 AMP FEEDER	(3) #1 & (1) #6G	2"
(G)	60 AMP FEEDER	(3) #6 & (1) #10G	1"

FEEDER SCHEDULE NOTES:
1. WIRING BASED ON COPPER THWN/THHN
2. CONDUIT SIZE BASED ON EMT



A1 POWER RISER DIAGRAM

NONE

Scale: As indicated

No.	Revision	By	Date

Designed by:
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POWER RISER DIAGRAM

SHEET NUMBER: EP500

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8 OF 8