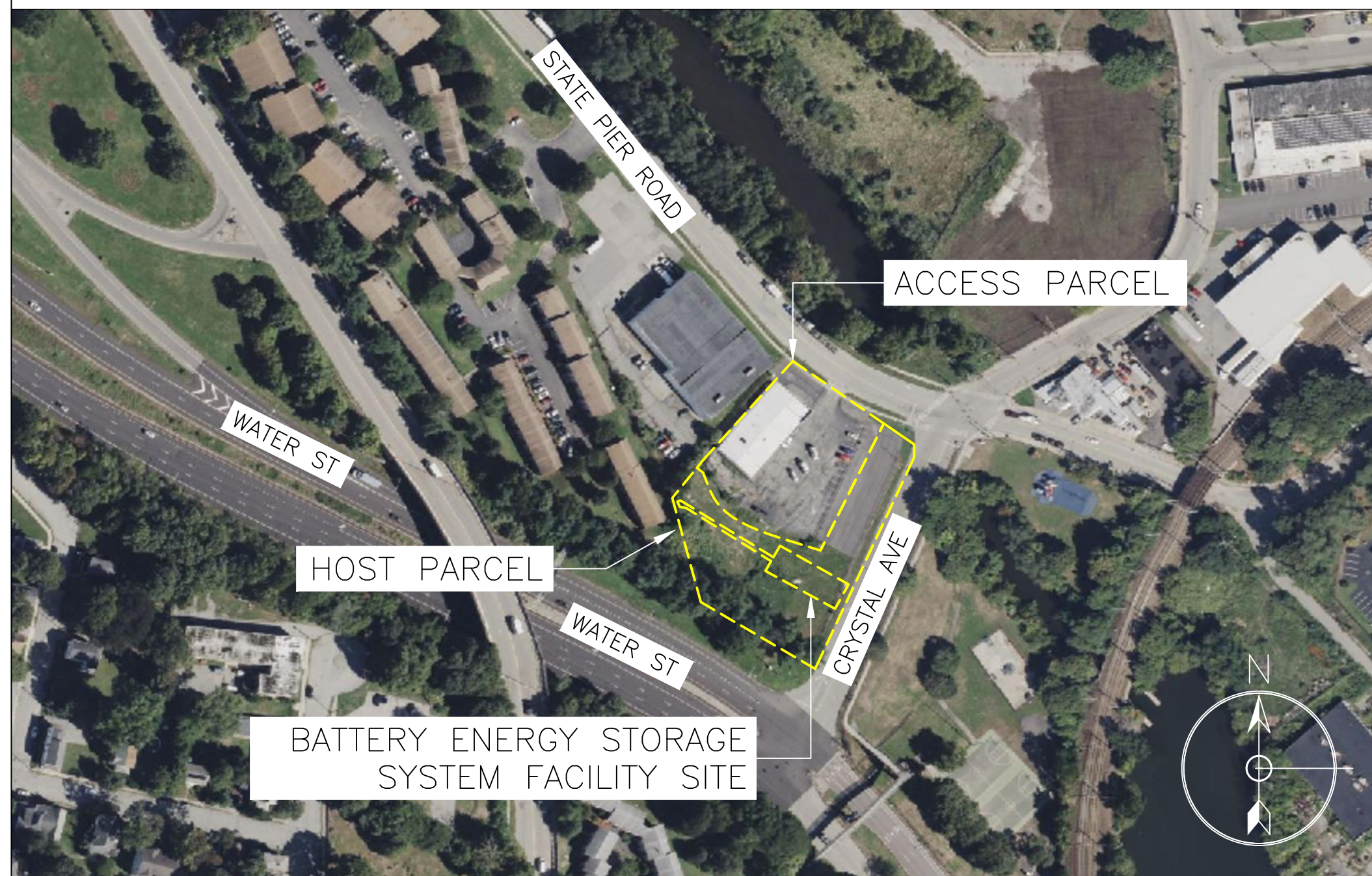


Q CELLS – STATE PIER RD STATE PIER RD, NEW LONDON, CT 06320 4,000KW/11,008KWH BATTERY ENERGY STORAGE SYSTEM



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SITE



SYSTEM SPECIFICATION

BESS CONVERTER

SUNGROW SC4000UD-MV-US
[BESS CONVERTER + MV XFMR]

MAX POWER 4000KVA @ 40°C, 1500VDC, 900VAC
PF=1.0

TOTAL NUMBER OF CONVERTERS-#1

BESS CONTAINER

SUNGROW BATTERY CONTAINERS
ST2752UX-US
LIQUID COOLING ENERGY STORAGE
CAPACITY = 2752KWH

TOTAL NUMBER OF CONTAINERS-#4

TEMPERATURE CONSIDERATIONS	
STC TEMPERATURE [°C]	25
ASHRAE 2% HIGH AMBIENT TEMPERATURE [°C]	30
ASHRAE EXTREME MIN. LOW AMBIENT TEMPERATURE [°C]	-14

APPLICABLE CODES:

- 2020 NATIONAL ELECTRIC CODE (NEC)
- 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2022 CONNECTICUT STATE FIRE SAFETY CODE – BASED ON 2021 INTERNATIONAL FIRE CODE (IFC)
- 2023 NFPA 855
- 2022 NFPA 110
- 2022 NFPA 111
- 2023 NESC

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
E.000	TITLE PAGE
E.001	GENERAL
E.002	LEGEND
E.010	DETAILS 01
E.011	DETAILS 02
E.100	SITE PLAN
E.110	FIRE & SAFETY
E.200	SLD
E.210	GND
E.220	CALCS
E.300	SIGNAGE 01
E.400	SPECS 01
E.401	SPECS 02
S.000	STRUCTURAL
E.500	SITE VICINITY MAP
E.501	ENVIRONMENTAL RESOURCES
E.502	ENVIRONMENTAL RESOURCES 2
E.503	ENVIRONMENTAL RESOURCES 3

SCALE: AS NOTED
(PRINT ON 36"X24")

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CB	C	30%	04/12/23
CB	B	INTXN DRAFT 2	02/09/23
CB	A	INTXN DRAFT 1	02/08/23
BY	REV	ISSUE	DATE

PROJECT TEAM

ENGINEER:
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BOULDER, CO 80301
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SCOPE OF WORK

INSTALLATION OF A NEW BATTERY ENERGY STORAGE SYSTEM AND ASSOCIATED EQUIPMENT. THE SYSTEM WILL BE INTERCONNECTED IN AN EXISTING MEDIUM VOLTAGE UTILITY VAULT.

FIRM NAME AND ADDRESS

HYDE RENEWABLES, INC
4735 WALNUT ST, SUITE #110
BOULDER, CO 80301

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720-900-1009
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Q CELLS
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STATE PIER RD
NEW LONDON, CT 06320
LAT=N 41° 21'38.4"
LON=W 72° 05'56.0"

PROJECT #: 069-1000

SHEET TITLE
TITLE PAGE

DRAWN BY	SHEET #
CB	E.000
DATE	
02/08/23	
CHECKED BY	
TRIPP HYDE	

CONSTRUCTION NOTES

1. DISRUPTION OF ANY BUILDING SYSTEMS, INCLUDING POWER, TELEPHONE, HVAC, ETC., MUST BE COORDINATED AND APPROVED.
2. ALL ENERGY STORAGE COMPONENTS AND ELECTRICAL EQUIPMENT MUST BE ANCHORED AND SEISMICALLY BRACED PER APPLICABLE CODES.
3. PROJECT SITE MUST BE MAINTAINED IN A CLEAN AND ORDERLY FASHION. ALL TRASH AND DEBRIS MUST BE COLLECTED AND REMOVED ON A DAILY BASIS. ALL MUD AND DEBRIS MUST BE KEPT OUT OF PUBLIC RIGHT-OF-WAYS.
4. CONSTRUCTION MATERIALS ON SITE MUST BE PROPERLY STACKED AND PROTECTED IN A SAFE MANNER AS TO PREVENT DAMAGE AND DETERIORATION UNTIL USE.
5. PROVIDE BARRIERS TO PREVENT UNAUTHORIZED ENTRY INTO CONSTRUCTION AREAS WHILE MAINTAINING SITE ACCESS TO EMPLOYEES.
6. ALL FINISHES AND CONSTRUCTION MUST BE PROTECTED BY THE CONTRACTOR FROM POTENTIAL DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. DAMAGE TO FINISHES OR CONSTRUCTION MUST BE REPAIRED OR REPLACED (OWNER'S DECISION) BY THE CONTRACTOR WITH IDENTICAL MATERIAL AND/OR FINISHES. CONTRACTOR MUST MAKE AND MAINTAIN A PHOTOGRAPHIC RECORD NOTEBOOK DATED/INDEXED PHOTOS.
7. ALL TRENCHES AND EXCAVATIONS MUST BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF STATE AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR MUST BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
8. PROTECTIVE BARRICADES, FENCING, HANDRAILS, AND BRIDGES, TOGETHER WITH WARNING AND GUIDANCE DEVICES AND SIGNS, MUST BE UTILIZED SO THAT PASSAGEWAY FOR PEDESTRIANS, ESPECIALLY DISABLED PERSONS, IS SAFE AND WELL DEFINED.
9. WALKWAYS IN CONSTRUCTION AREAS MUST BE MAINTAINED AT LEAST 4 FEET IN WIDTH OR EQUAL TO SIDEWALK/ENTRY WAY WIDTH, WHICHEVER IS GREATER, UNLESS EXPRESSLY PERMITTED OTHERWISE BY THE CUSTOMER IN WRITING; AND MUST BE FREE OF ABRUPT CHANGES IN THE GRADE. THESE WALKWAYS MUST BE CLEARLY MARKED AND PROVIDE SAFE PASSAGE FOR PEDESTRIANS. OBSTRUCTIONS WITHIN THE WALKWAYS MUST BE ILLUMINATED DURING HOURS OF DARKNESS. MINIMUM VERTICAL CLEARANCE TO ANY OBSTRUCTION WITHIN THE WALKWAY MUST BE 6'-8'.
10. WHERE WALKWAYS, PATHWAYS, OR ACCESS WAYS ARE CLOSED BY THE WORK, AN ADA COMPLIANT, OR ALTERNATE WALKWAY MUST BE PROVIDED, PREFERABLY WITHIN THE IMMEDIATE LOCATION OF THE PATHWAY OR ACCESS WAY TO BE CLOSED. WHERE IT IS NECESSARY TO DIVERT PEDESTRIANS INTO MAJOR DETOUR AND/OR INTO A PARKING LANE OR TRAFFIC AREA, AT NO TIME SHOULD PEDESTRIANS BE DIVERTED INTO A PORTION OF A STREET USED FOR VEHICULAR TRAFFIC. ANY DEVIATION FROM THE ABOVE MUST HAVE PRIOR APPROVAL OF THE CUSTOMER.
11. AT LOCATIONS WHERE ADJACENT ALTERNATE WALKWAYS CANNOT BE PROVIDED, ADA COMPLIANT DETOURS WILL BE CLEARLY PLANNED, MARKED, AND CONSTRUCTED. APPROPRIATE SIGNS AND BARRICADES MUST BE INSTALLED AT THE LIMITS OF CONSTRUCTION AND IN ADVANCE OF THE CLOSURE (OR DETOUR) IN ORDER TO DIVERT PEDESTRIANS TO THE APPROPRIATE WALKWAY OR DETOUR.
12. ASPHALT AND CONCRETE BARRIERS: ALL ASPHALT TRAFFIC IS RATED. ALL ASPHALT REPAIRS MUST BE REPAIRED TO MATCH ADJACENT BASE COURSE, BINDER COURSE, AND WEARING COURSES. CONTRACTOR MUST COVER ASPHALT TRENCHES WITH HOT MIX ASPHALT, ROLL FOR COMPACTION, AND COVER THE WIDTH OF THE TRENCH WITH A SLURRY SEAL AFTER THE CURE PERIOD. CONCRETE MUST BE REPLACED "JOINT-TO-JOINT" WHEN DISTURBED DURING CONSTRUCTION.
13. UNDERGROUND BUILDUP IN FIRE LANES WILL MEET EXISTING FIRE LANE SPECS AND ROADWAYS WILL MEET EXISTING ROADWAY SPECS. CONTRACTOR MUST SUBMIT CUT SHEETS FOR THESE REPAIRS.
14. ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
15. DELIVERIES MUST BE KEPT AWAY FROM EMPLOYEES BY SEPARATING THE DELIVERY AREA OR ESCORTING THE DELIVERIES WHILE ON SITE.
16. ALL SIGNAGE REMOVED DURING THE COURSE OF CONSTRUCTION MUST BE RELOCATED OR REPLACED.
17. ALL LANDSCAPING DAMAGED DURING THE COURSE OF CONSTRUCTION MUST BE REPAIRED BACK TO ITS ORIGINAL CONDITION.
18. ALL EXTERIOR STEEL MUST BE CORROSION RESISTANT, HOT DIPPED GALVANIZED OR GALVANIZED WITH COATED FINISH.
19. OPENINGS AROUND ELECTRICAL PENETRATIONS INTO OR THROUGH FIRE-RESISTANT RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS AND MATERIALS ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS TO MAINTAIN FIRE RESISTANCE RATINGS PER NEC 300.21 AND IBC 714.4.
20. PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL NOT BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT PER NEC 110.26(E)(1)(A).
21. CONTRACTOR SHALL ADHERE TO 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AS AMENDED.

WIRING AND WIRING METHODS

1. ALL GROUNDED CONDUCTORS MUST BE COLOR-CODED IN COMPLIANCE WITH NEC ARTICLE 200.6.
2. ALL DC EQUIPMENT AND COMPONENTS MUST BE LISTED FOR USE AT 1000VDC UON.
3. ALL CONDUCTORS IN VERTICAL RACEWAYS MUST COMPLY WITH NEC ARTICLE 300.19(A), 300.19(B), 376.30(B), AND TABLE 300.19(A).
4. ALL CONNECTIONS AND CONNECTORS MUST BE TORQUED PER DEVICE LISTING OR MANUFACTURER'S RECOMMENDATIONS.
5. WIRE NUTS MUST NOT BE USED ON ENERGY STORAGE CONDUCTORS. SPLICES AND CONNECTORS MUST BE INSULATED BY APPROVED MEANS. UL LISTED ELECTRICAL TAPE ALONE IS NOT SUITABLE AS THE ONLY INSULATION MEANS.
6. ENERGY STORAGE OUTPUT CIRCUITS, AND INVERTER OUTPUT CIRCUITS MUST BE PROTECTED IN ACCORDANCE WITH NEC ARTICLE 240.
7. PROTECTIVE BUSHINGS MUST BE USED FOR ALL CONDUIT CONNECTIONS.

WIRING AND BONDING METHODS

1. GROUND AND BOND ALL EQUIPMENT, SUPPORTING STRUCTURES, MOUNTS, RACEWAYS, PANELBOARDS, SWITCHBOARDS, ETC., IN ACCORDANCE WITH NEC ARTICLE 250 AND 690.43.
2. THE EQUIPMENT GROUNDING CONNECTION TO ANY MODULE OR COMPONENT OF THIS STORAGE SYSTEM MUST BE ARRANGED SUCH THAT REMOVAL FROM THE SYSTEM DOES NOT INTERRUPT THE GROUND FAULT PATH OF ANY COMPONENT WITHIN THE SYSTEM.
3. ALL GROUNDING AND BONDING EQUIPMENT MUST BE LISTED AND USED IN ACCORDANCE WITH ITS LISTING.

INVERTER NOTES

1. INVERTER MUST HAVE GROUND FAULT DETECTION NOTIFICATION AND INTERRUPTION FOR DC CIRCUITS SUPPLYING POWER TO IT PER NEC 690.41(B).
2. THE INVERTERS MUST AUTOMATICALLY DE-ENERGIZE THEIR OUTPUT TO THE CONNECTED ELECTRICAL SYSTEM UPON LOSS OF VOLTAGE IN THAT SYSTEM, AND MUST REMAIN IN THAT STATE UNTIL THE VOLTAGE HAS BEEN RESTORED IN COMPLIANCE WITH NEC ARTICLE 690.61.
3. ALL SOLAR AND STORAGE INVERTERS MUST BE UL-LISTED OR MUST OBTAIN UL FIELD CERTIFICATION.

EQUIPMENT NOTES

1. ALL EQUIPMENT MUST BE LISTED/LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
2. ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER MUST BE OF WEATHERPROOF CONSTRUCTION AND RATED FOR UV EXPOSURE.
3. ALL FIELD-INSTALLED JUNCTION, PULL, AND OUTLET BOXES LOCATED BEHIND MODULES MUST BE ACCESSIBLE DIRECTLY OR BY DISPLACEMENT OF THE MODULE(S) SECURED BY REMOVABLE FASTENERS.
4. PROVIDE "WARNING: POTENTIAL ARC FLASH HAZARD" LABEL FOR ALL SWITCHBOARDS, PANELBOARDS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS PER NEC ARTICLE 110.16. "FLASH PROTECTION" APPLIES TO DESIGNATED SCOPE OF WORK ONLY.

EQUIPMENT PADS AND CONDUIT ROUTING

1. CONDUIT ROUTING IS DIAGRAMMATIC IN NATURE. EXACT ROUTING AND LOCATIONS WILL BE COORDINATED IN FIELD UON.
2. FOR EXPANSION COUPLING REFER NEC 300.7(B)

CODES

1. ALL COMPONENTS MUST BE DESIGNED, MANUFACTURED, AND TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS OF NEMA, ANSI, NEC, AND UL.
2. SPECIFIC REQUIREMENTS FOR INDIVIDUAL COMPONENTS OF ANY POWER SYSTEMS INCLUDE BUT ARE NOT LIMITED TO THE GUIDELINES SHOWN HEREIN.
3. THE WORK ON THE PROJECT MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH BASED ON THE NATIONAL ELECTRIC CODE AND WITH THE LATEST EDITION OF ALL APPLICABLE CODES, STANDARDS, AND RECOMMENDATIONS OF THE FOLLOWING AGENCIES:

- * ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
- * ASCE – AMERICAN SOCIETY OF CIVIL ENGINEERS
- * ADA – AMERICAN DISABILITIES ACT
- * ASME – AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- * ASTM – AMERICAN SOCIETY FOR TESTING AND MATERIALS
- * CBMA – CERTIFIED BALLAST MANUFACTURERS ASSOCIATION
- * EIA – ELECTRONIC INDUSTRIES ASSOCIATION
- * ETL – ELECTRICAL TESTING LABORATORIES
- * IBC – INTERNATIONAL BUILDING CODE
- * IEEE – INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
- * IESNA – ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
- * ICEA – INSULATED CABLE ENGINEERS ASSOCIATION
- * IAEI – INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS
- * IPCEA – INSULATED POWER CABLE ENGINEERS ASSOCIATION
- * IPMVP – INTERNATIONAL PERFORMANCE MEASUREMENTS AND VERIFICATION PROTOCOL
- * NFPA – NATIONAL FIRE PROTECTION ASSOCIATION
- * NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- * NESC – NATIONAL ELECTRICAL SAFETY CODE
- * NETA – NATIONAL ELECTRICAL TESTING ASSOCIATION
- * NEC – NATIONAL ELECTRICAL CODE
- * NECA – NATIONAL ELECTRIC CONTRACTORS ASSOCIATION
- * OSHA – OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- * UL – UNDERWRITERS LABORATORY

INSPECTIONS

ALL THIRD PARTY TESTING, INSPECTIONS, AND LABELING OF SERVICE EQUIPMENT TO BE PERFORMED BY A NRTL SUCH AS INTERTEK.

ABBREVIATIONS

AC – ALTERNATING CURRENT
AFC – AVAILABLE FAULT CURRENT
AFG – ABOVE FINISH GRADE
AFF – ABOVE FINISH FLOOR
AIC – AMPERES INTERRUPT CURRENT
AL – ALUMINUM CONDUCTOR OR BUS
ATS – AUTOMATIC TRANSFER SWITCH
AWG – AMERICAN WIRE GAUGE
BSCW – BARE STRANDED COPPER WIRE
BTCW – BARE TINNED COPPER WIRE
C – CONDUIT
CE – CONCRETE ENCASED
CO – CONDUIT ONLY
COMM – COMMUNICATIONS CIRCUIT OR CONDUIT AS NOTED
COU – CONDITIONS OF USE
CPY – CANOPY
CT – CURRENT TRANSFORMER
CU – COPPER CONDUCTOR OR BUS
DAS – DATA ACQUISITION SYSTEM
DC – DIRECT CURRENT
DB – DIRECT BURIED
DISC – DISCONNECT
(E) – EXISTING
EGC – EQUIPMENT GROUND CONDUCTOR
EQ – EQUAL
EMT – ELECTRICAL METALLIC TUBING
ESS – ENERGY STORAGE SYSTEM
FBO – FURNISHED BY OTHERS
FIBO – FURNISHED AND INSTALLED BY OTHERS
FLA – FULL LOAD AMPS
FMT – FLEXIBLE METALLIC TUBING
GEC – GROUND ELECTRODE CONDUCTOR
GFCL – GROUND FAULT CURRENT INTERRUPTER
GFP – GROUND FAULT PROTECTION
GND – GROUND
GRC – GALVANIZED RIGID CONDUIT
HH – HANDHOLE
IBO – INSTALLED BY OTHERS
IG – ISOLATED GROUND CONDUCTOR
IMC – INTERMEDIATE METAL CONDUIT
ISC – SHORT CIRCUIT CURRENT
ISCW – INSULATED STRANDED COPPER WIRE
KAIC – KILOAMPERES INTERRUPT CURRENT
KVA – KILOVOLT-AMPERES
KW – KILOWATTS
LFMC – LIQUIDTIGHT FLEXIBLE METAL CONDUIT
MCA – MINIMUM CIRCUIT AMPERES
MLO – MAIN LUGS ONLY
MLPE – MODULE LEVEL POWER ELECTRONICS
MT – MONITORING
MVPS – MEDIUM VOLTAGE POWER STATION
(N) – NEW

NC – NORMALLY CLOSED
NIC – NOT IN CONTRACT
NIS – NOT IN SCALE
NTS – NOT TO SCALE
NEC – NATIONAL ELECTRICAL CODE
NO – NORMALLY OPEN
NRTL – NATIONALLY RECOGNIZED TESTING LABORATORY
NS – NO SCALE
NL – NIGHT LIGHT, TIME CLOCK, OR PHOTOCCELL CONTROLLED LUMINAIRE
OAE – OR APPROVED EQUIVALENT
OC – ON CENTER
OCP – OVERCURRENT PROTECTION
OCPD – OVERCURRENT PROTECTION DEVICE
O/H – OVERHEAD
OVP – OVERVOLTAGE PROTECTION
PG&E – PACIFIC GAS & ELECTRIC
PT – POTENTIAL TRANSFORMER
PV – PHOTOVOLTAIC
PVC – POLYVINYL CHLORIDE CONDUIT
PMRS – PERFORMANCE MONITORING AND REPORTING
POCC – POINT OF COMMON COUPLING
POT – PATH OF TRAVEL
RAC – RIGID ALUMINUM CONDUIT
RMT – RIGID METAL CONDUIT
RSD – RAPID SHUTDOWN DEVICE
RSS – RAPID SHUTDOWN SYSTEM
(R) – REMOVE
(RL) – RELOCATE, RELOCATED
SLD – SINGLE LINE DIAGRAM
SPD – SURGE PROTECTIVE DEVICE
S/S – STAINLESS STEEL
STP – SHIELDED TWISTED PAIR
SSBJ – SUPPLY SIDE BONDING JUMPER
STC – STANDARD TEST CONDITIONS
TYP – TYPICAL
TVSS – TRANSIENT VOLTAGE SURGE SUPPRESSOR
U/G – UNDERGROUND
UON – UNLESS OTHERWISE NOTED
UTP – UNSHIELDED TWISTED PAIR
VD – VOLTAGE DROP
VOC – OPEN CIRCUIT VOLTAGE
W – WALL MOUNTED
WP – EQUIPMENT OF WEATHERPROOF CONSTRUCTION OR DESIGN
WW – WIREWAY
XFMR – TRANSFORMER



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SINGLE LINE DIAGRAM

— AC —	AC CABLE
— DC —	DC CABLE
— GND —	GROUND CABLE
— UGE —	UNDERGROUND ELECTRIC LINE
—	CONDUIT CAP
—)	CONTINUATION
— FO —	FIBER OPTIC CABLE
	"N" INDICATES NEUTRAL BUS "G" INDICATES GROUND BUS
	GENERATOR
	400A AUTOMATIC TRANSFER SWITCH 400A, 3-POLE, SOLID NEUTRAL
	400A AUTOMATIC TRANSFER SWITCH WITH ISOLATION BYPASS, 400A, 4-POLE
	PANELBOARD "HA" (2 SECTIONS) 225A MAIN CIRCUIT BREAKER
	PANELBOARD "LA" 225A MAIN LUGS ONLY
	TRANSFORMER VOLTAGE AND RATING AS NOTED
	NEUTRAL GROUNDING RESISTOR
	EARTH GROUND
	COPPER CLAD GROUND ROD
	CABLE TAP BOX
	INVERTER/RECTIFIER
	DC-DC CONVERTER
	BATTERY
	CURRENT TRANSFORMER "Y" = PRIMARY CURRENT "Z" = SECONDARY CURRENT X2=X4 = TAP SETTING
	POTENTIAL TRANSFORMER "(2)" INDICATES QUANTITY "4:1" INDICATES RATIO
	GROUND FAULT CURRENT XFMR
	"M" = METER "T" = TEMP PROBE "ST" = SHUNT TRIP

SINGLE LINE DIAGRAM

	MOTOR START WITH OPTIONAL HOA AND OVERLOAD
	VARIABLE FREQUENCY DRIVE
	100AF 100AT 10KAIC FIXED-MOUNT ENCLOSED CIRCUIT BREAKER, AIC AS NOTED
	100AF 100AT FIXED-MOUNT CIRCUIT BREAKER "F" = FRAME RATING "T" = TRIP RATING
	100AS DISCONNECT SWITCH "S" = SWITCH RATING
	100AS 100AF FUSED DISCONNECT SWITCH CLASS L OR R FUSES AS NOTED "S" SWITCH, "F" FUSE RATINGS
	(3) 800AF 600AT LSIG DRAWOUT CB - LOW VOLTAGE INSULATED CASE OR AIR TYPE LSIG = ELECTRONIC TRIP DEVICE "L" = LONG TIME TRIP "S" = SHORT TIME TRIP "I" = INSTANTANEOUS TRIP "G" = GROUND FAULT
	100A DRAWOUT FUSE LOW VOLTAGE INSULATED CASE OR AIR TYPE
	2000AF 1600AT DRAWOUT CIRCUIT BREAKER - MED VOLTAGE VACUUM OR ARC RESISTANT TYPE "F" FRAME, "T" TRIP RATING
	TAP CONNECTORS
	CABLE LIMITERS
	MEDIUM VOLTAGE LOAD/DEAD-BREAK ELBOW OR STRESS CONE
	SURGE ARRESTOR AIR GAP
	SURGE ARRESTOR MOV
	THERMAL OVERLOAD
	GROUND BAR WITH EARTH CONNECTION

ANNOTATION SYMBOLS

	NOTE REFERENCE SYMBOL
	REVISION REFERENCE SYMBOL
	RELOCATE EXISTING DEVICE
	LIGHT FIXTURE TAG "A" TYPE, "X" QUANTITY

PHASE	240/120V, 1φ	240/120V, 3φ, HIGH-LEG	208/120V, 3φ	480/277V, 3φ
A	BLACK	BLACK	BLACK	BROWN
B	RED	RED	RED	PURPLE
C	N/A	ORANGE	BLUE	YELLOW
NEUTRAL	WHITE	WHITE	WHITE	WHITE
GROUND	GREEN	GREEN	GREEN	GREEN

PHASE	DC (600V)	DC (1000V)	DC (1500V)	DC (2000V)
POSITIVE	RED	RED	RED	RED
NEGATIVE	BLACK	BLACK	BLACK	BLACK
GROUND	GREEN	GREEN	GREEN	GREEN



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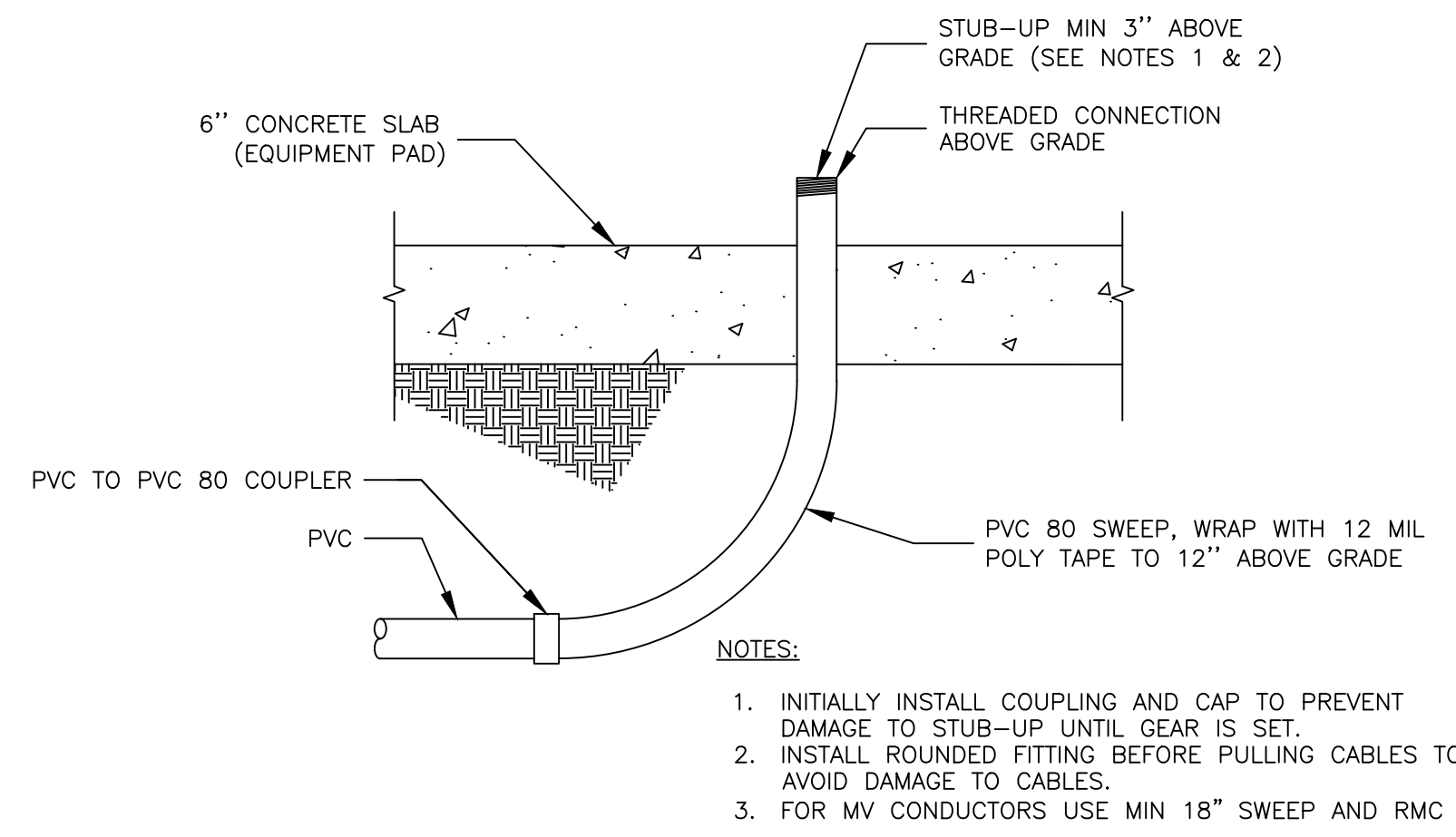
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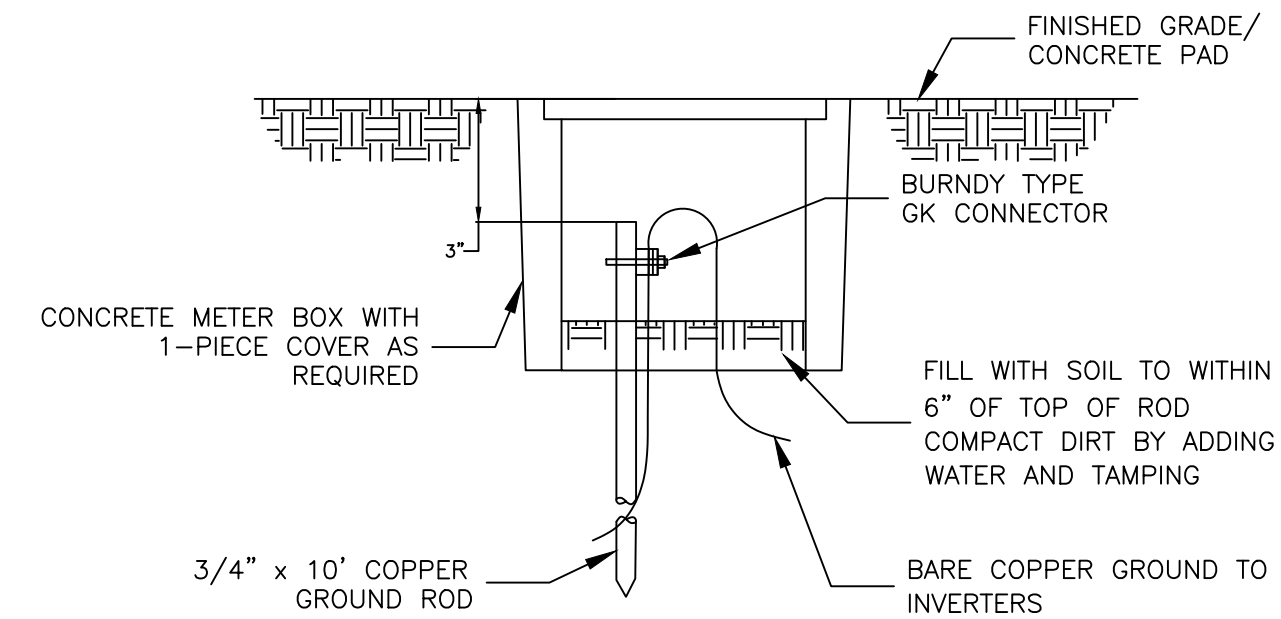
SHEET TITLE
LEGEND

DRAWN BY CB	SHEET #
DATE 02/08/23	E.002
CHECKED BY TRIPP HYDE	

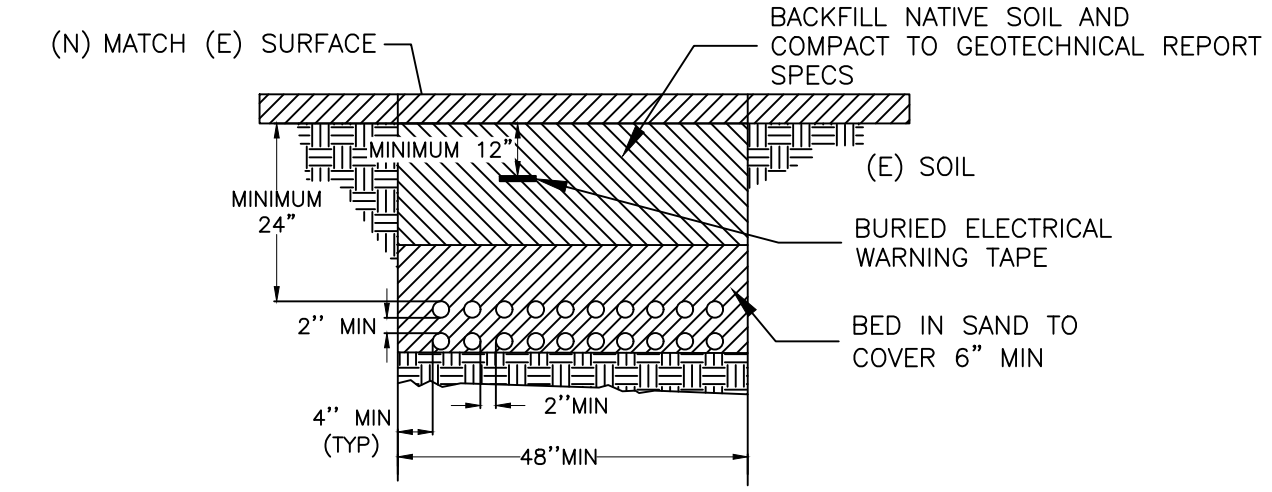
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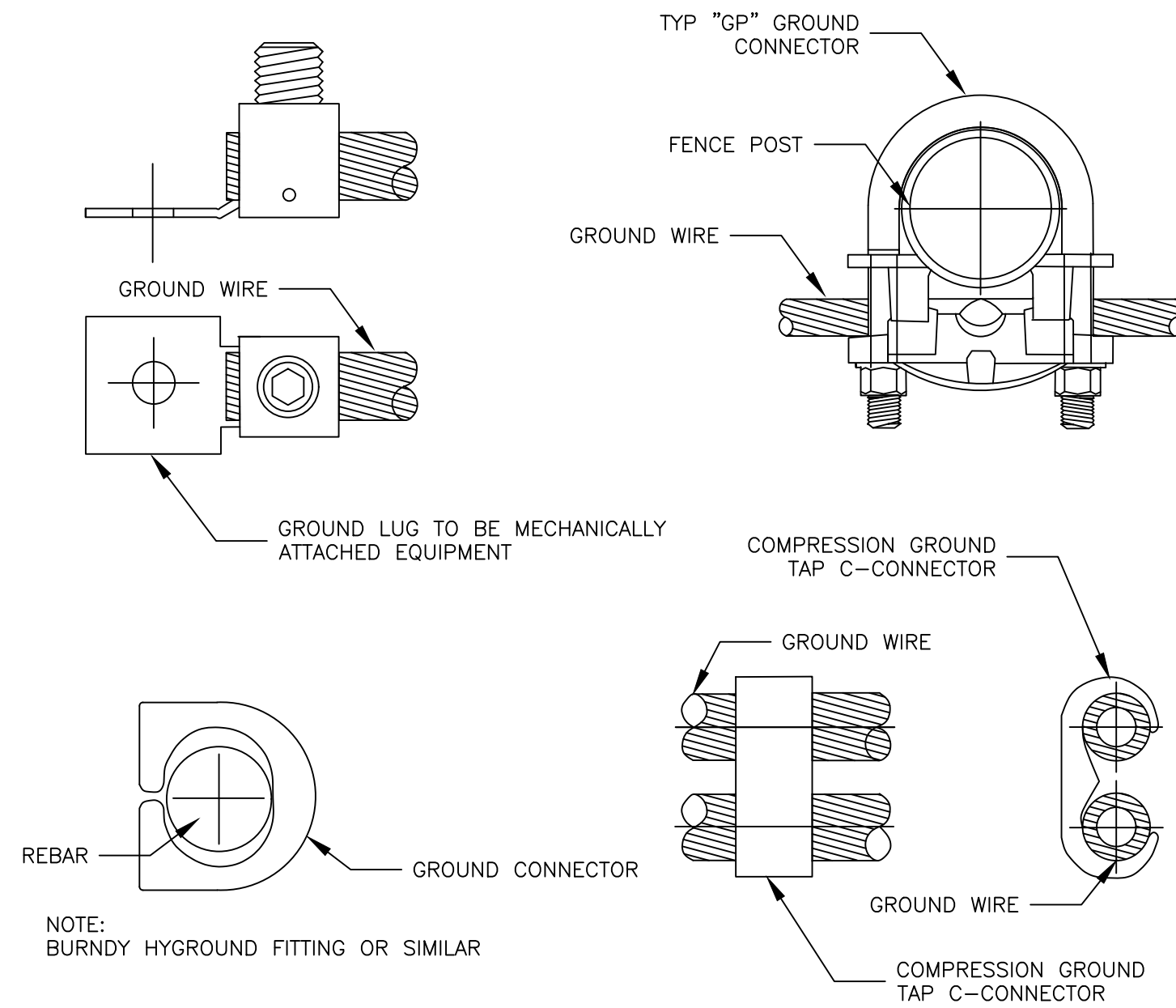
A EQUIPMENT PAD STUB UP DETAIL
SCALE: N.T.S



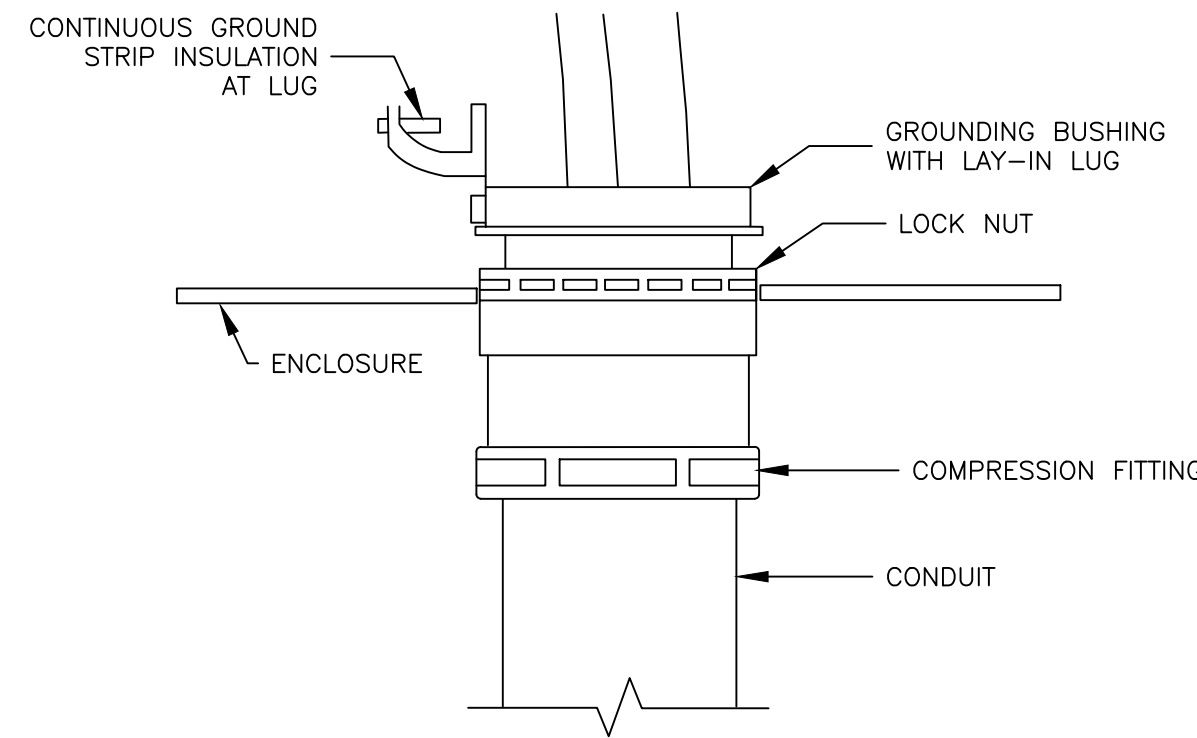
B TYPICAL GROUND WELL DETAIL
SCALE: N.T.S



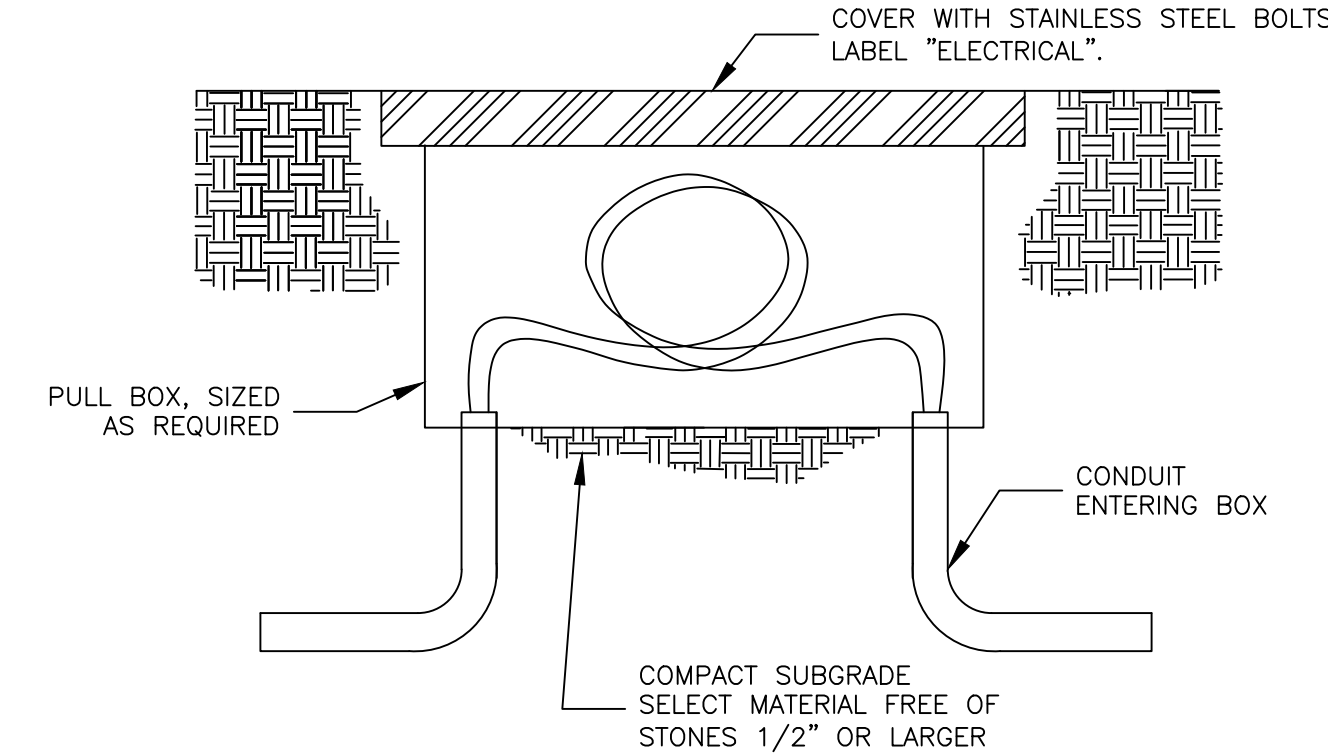
C DC TRENCH DETAIL
SCALE: N.T.S



D GROUNDING CONNECTION DETAILS
SCALE: N.T.S



E CONDUIT GROUNDING DETAIL
SCALE: N.T.S



F UNDERGROUND PULLBOX SECTION DETAIL
SCALE: N.T.S

SCALE: AS NOTED
(PRINT ON 36"X24")

RK	M	AHJ COMMENTS	03/13/23
AR	L	90%	01/03/24
RK	K	REDLINES	12/07/23
RK	J	60% UPDATE	10/05/23
RK	H	60% UPDATE	7/31/23
RK	G	60% UPDATE	07/27/23
ST	F	REDLINES	06/12/23
ST	E	REDLINES	05/23/23
CB	D	60%	05/11/23
CB	C	30%	04/12/23
CB	B	INTXN DRAFT 2	02/09/23
CB	A	INTXN DRAFT 1	02/08/23
BY	REV	ISSUE	DATE

FIRM NAME AND ADDRESS

HYDE RENEWABLES, INC
4735 WALNUT ST, SUITE #110
BOULDER, CO 80301

INFO@HYDERENEWABLES.COM
720-900-1009
WWW.HYDERENEWABLES.COM

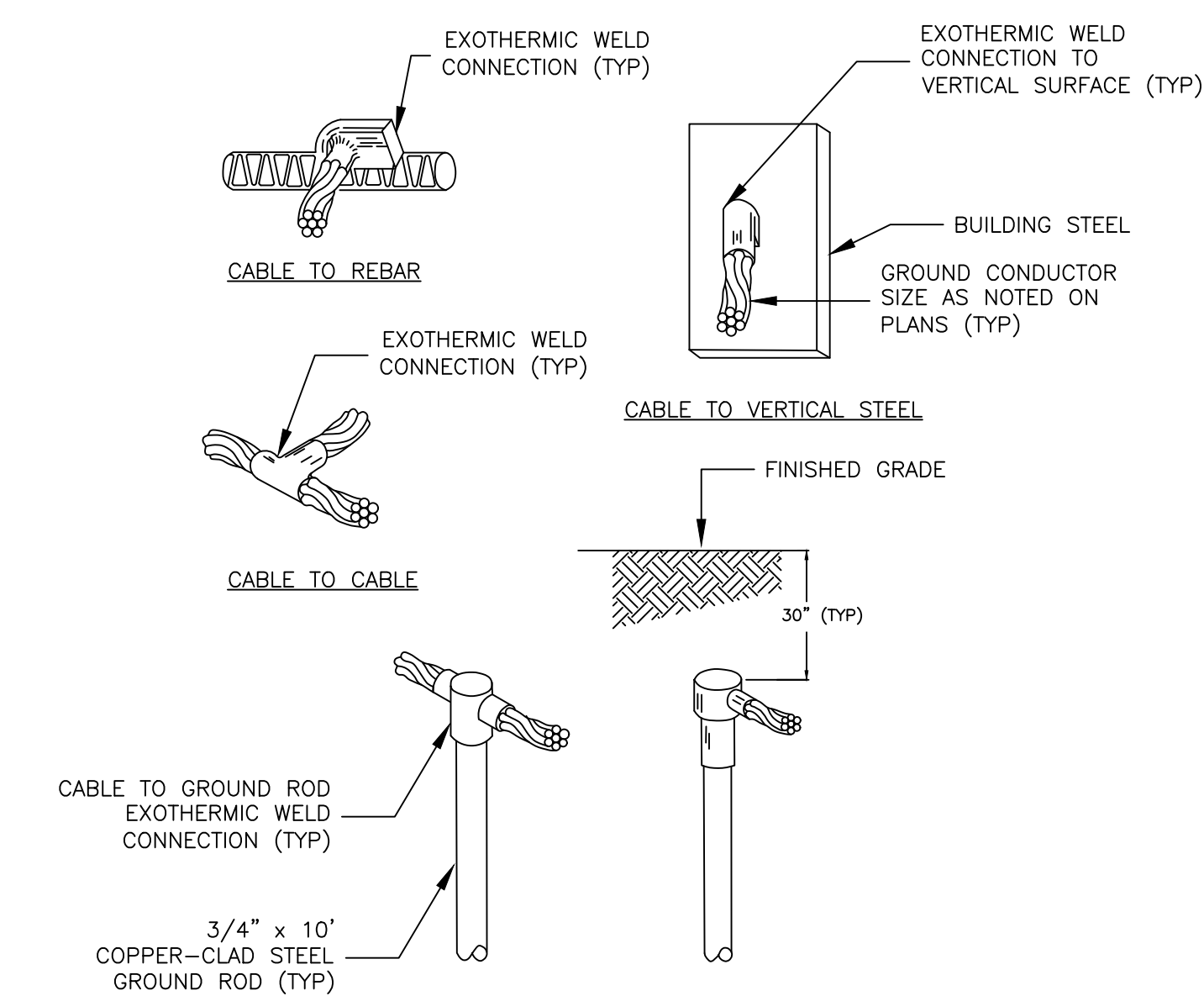
PROJECT NAME AND ADDRESS

Q CELLS
STATE PIER RD
STATE PIER RD
NEW LONDON, CT 06320
LAT=N 41° 21'38.4"
LON=W 72° 05'56.0"

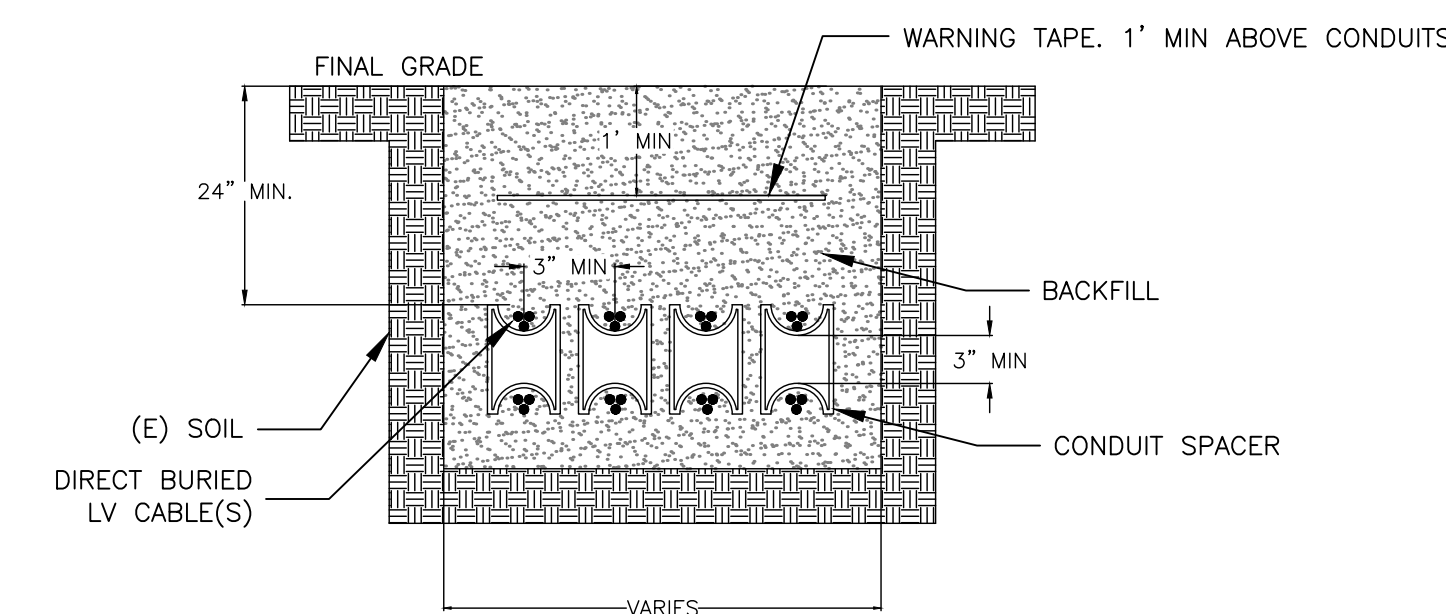
PROJECT #: 069-1000

SHEET TITLE
DETAILS 01

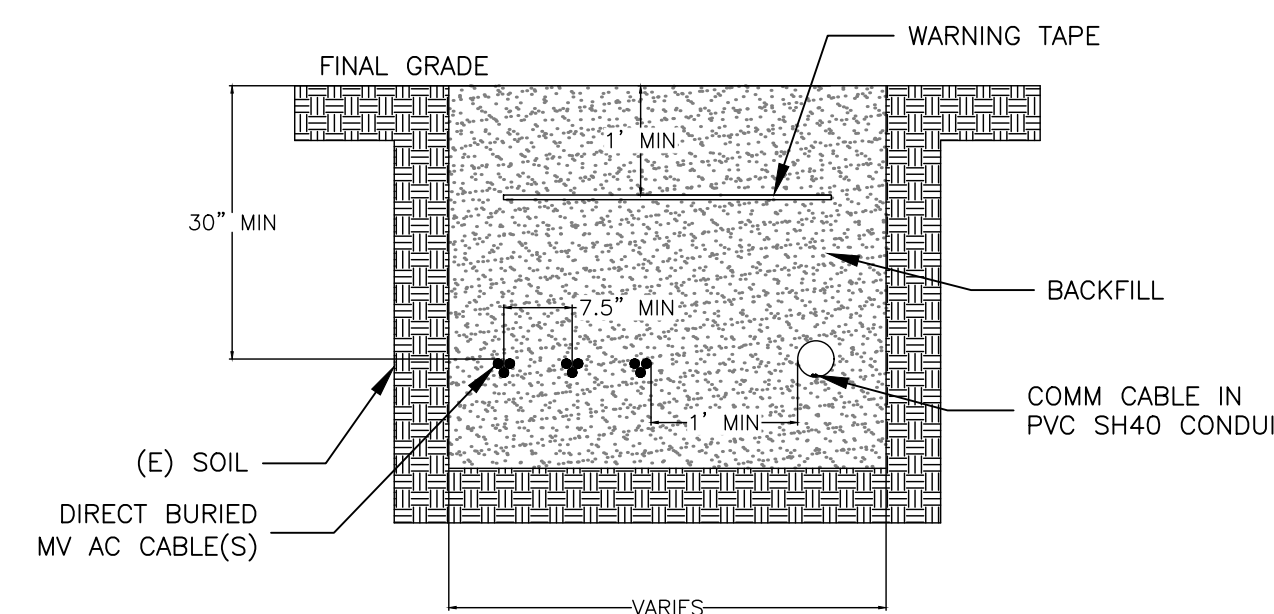
DRAWN BY	SHEET #
CB	E.010
DATE	
02/08/23	
CHECKED BY	
TRIPP HYDE	



G GROUNDING CONNECTION DETAILS
SCALE: N.T.S

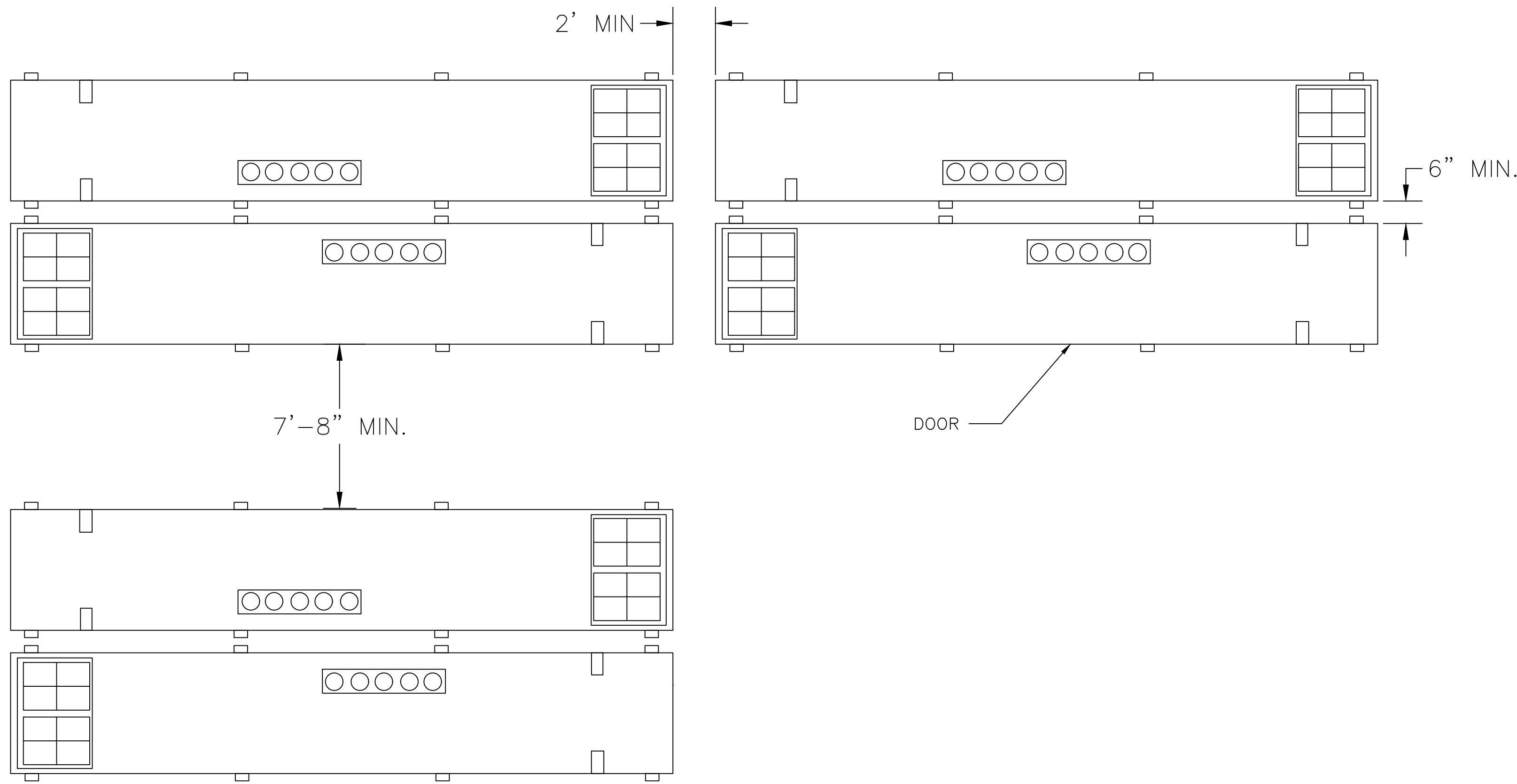


H TWO LAYER DIRECT BURIED LV CABLES
SCALE: N.T.S

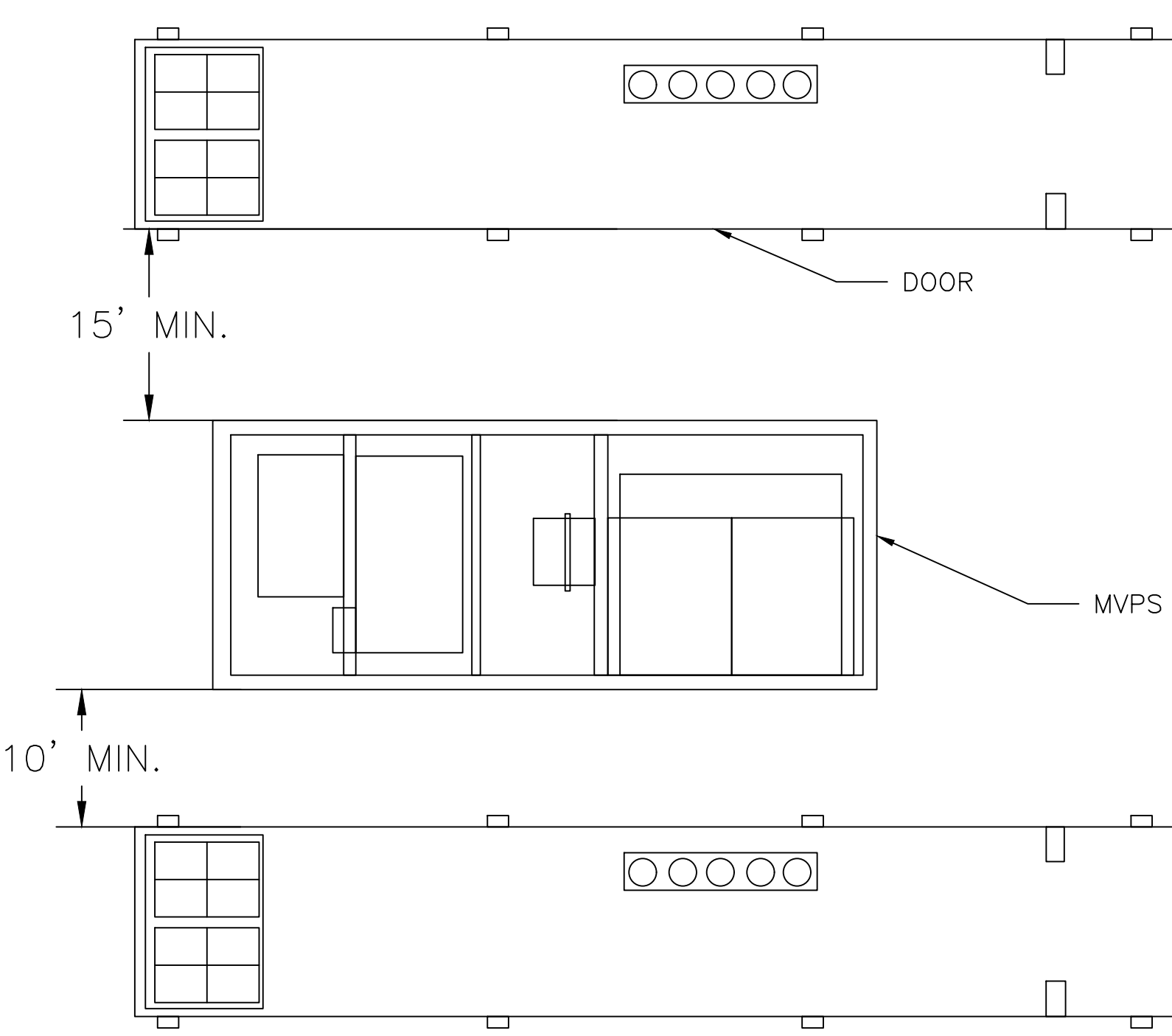


I MV CABLES WITH COMM CABLES TRENCH DETAIL
SCALE: N.T.S

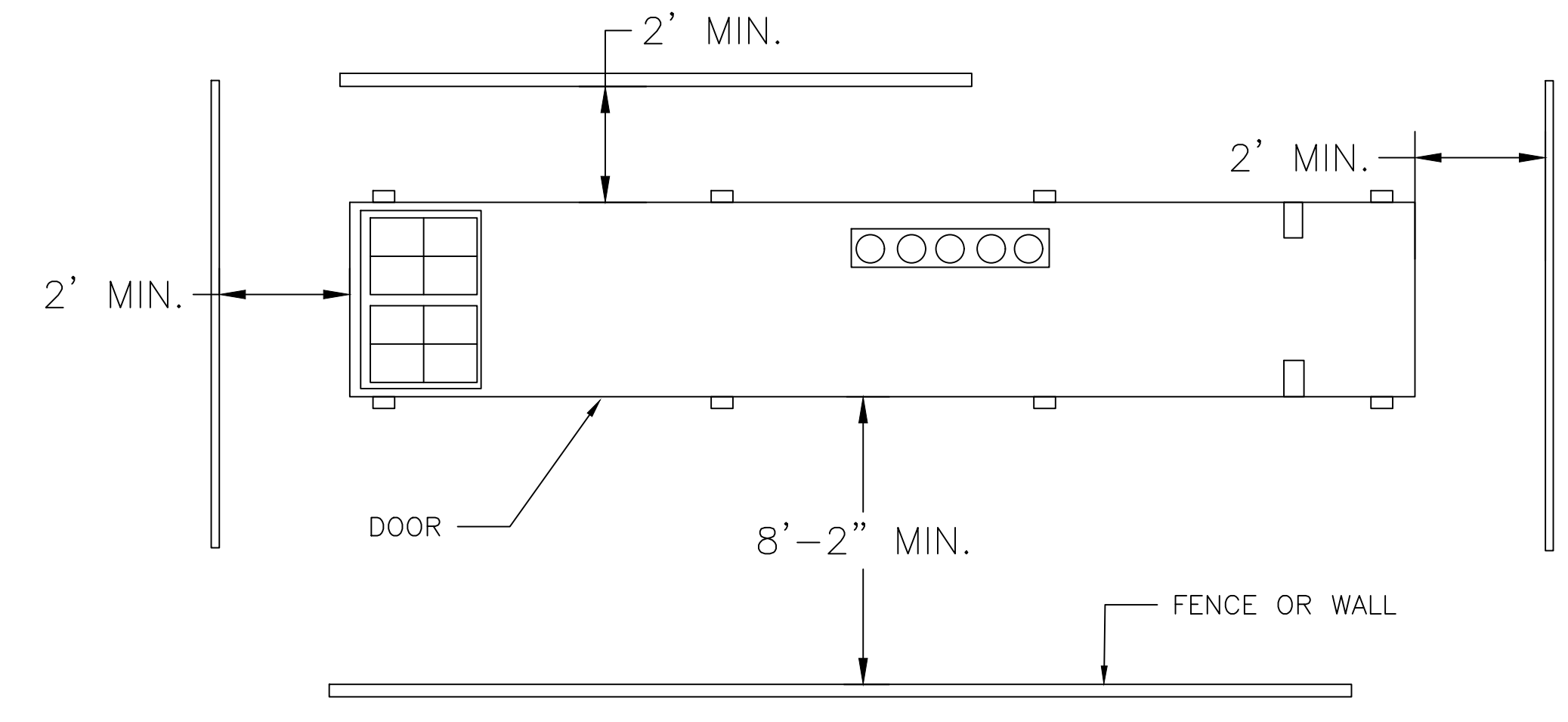
NOTE:
REFER TO MANUFACTURER'S LAYOUT GUIDE FOR MORE DETAILS.



A BESS MINIMUM CLEARANCE DETAIL (BESS TO BESS)
SCALE: N.T.S



C BESS MINIMUM CLEARANCE DETAIL (BESS TO MVPS)
SCALE: N.T.S



B BESS MINIMUM CLEARANCE DETAIL (BESS TO WALL OR FENCE)
SCALE: N.T.S



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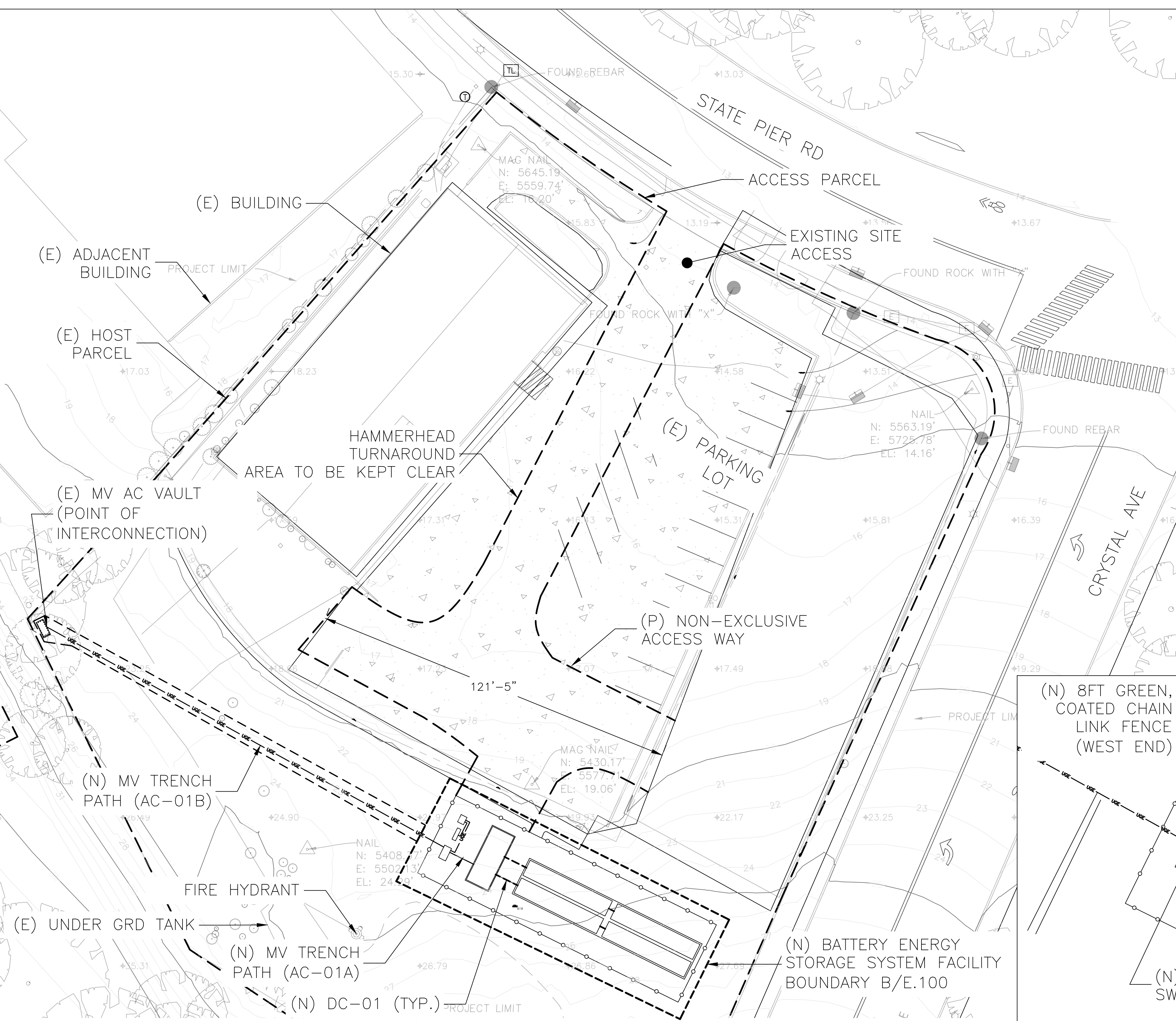
INFO@HYDERENEWABLES.COM
720-900-1009
WWW.HYDERENEWABLES.COM

PROJECT NAME AND ADDRESS
Q CELLS
STATE PIER RD
STATE PIER RD
NEW LONDON, CT 06320
LAT=N 41° 21'38.4"
LON=W 72° 05'56.0"

PROJECT #: 069-1000

SHEET TITLE
DETAILS 02

DRAWN BY CB	SHEET #
DATE 02/08/23	E.011
CHECKED BY TRIPP HYDE	

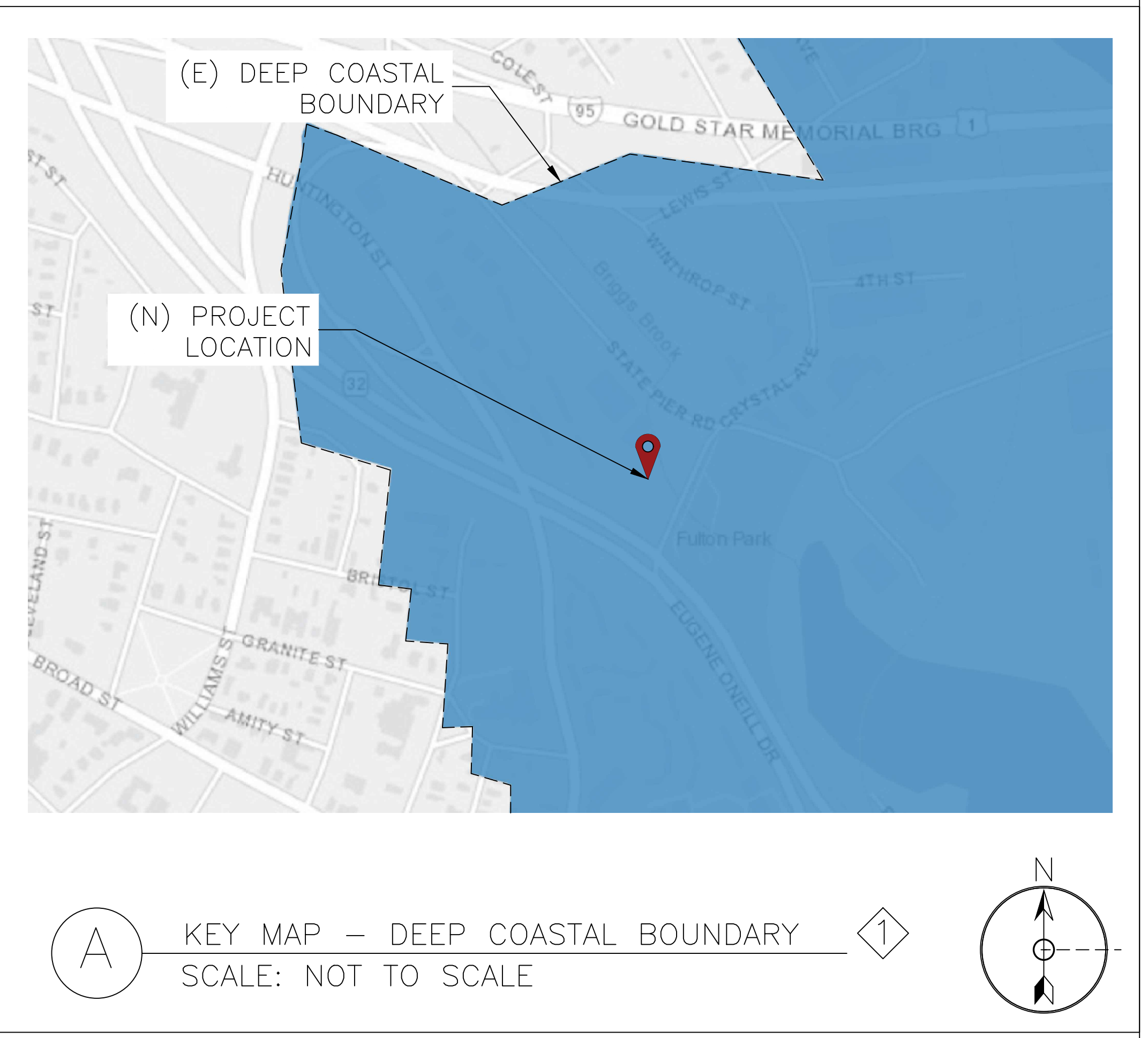


GENERAL NOTES:

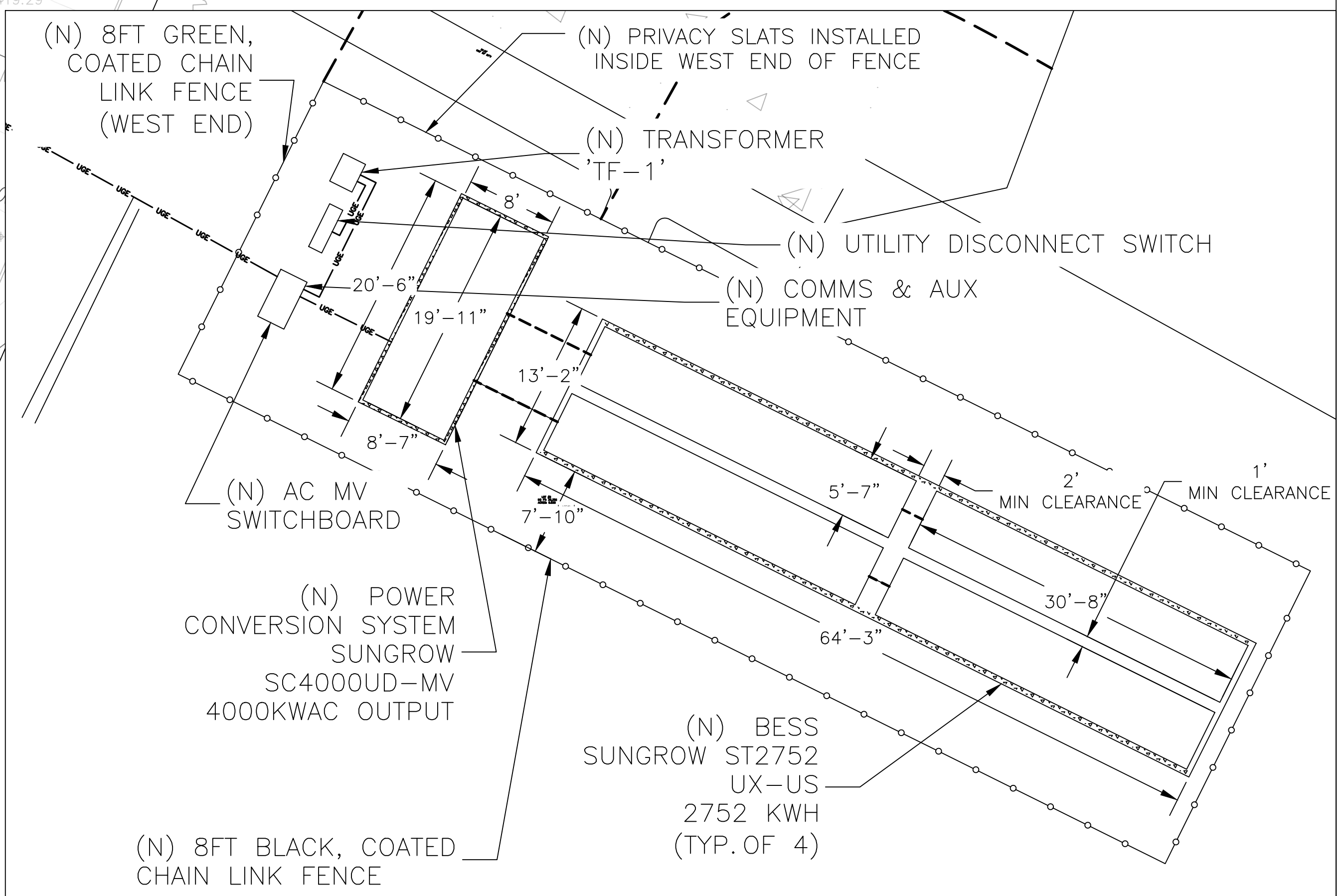
- EMERGENCY AND SERVICE VEHICLES WILL BE ABLE TO PARK WITHOUT OBSTRUCTING THE INGRESS AND EGRESS FROM SITE TO STATE PIER ROAD
- OWNER WILL ENSURE TO KEEP THE INGRESS, EGRESS, AND PATHWAY CLEAR FOR EMERGENCY AND SERVICE VEHICLES
- EMERGENCY AND SERVICE VEHICLES WILL HAVE SUFFICIENT SPACE TO TURN AROUND ON THE GRAVEL ROAD

SHEET NOTES:

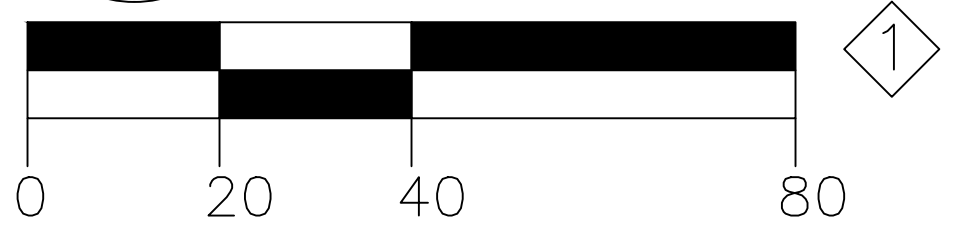
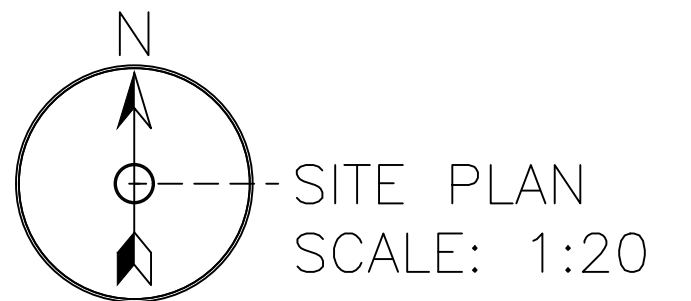
DETAIL A/E.100 SHOWS THE EXTENT OF LANDS AND COASTAL WATERS AS DEFINED BY C.G.S. 22A-93(5) WITHIN CONNECTICUT'S COASTAL AREA (DEFINED BY C.G.S. 22A-94(C)). SOURCE: DEEP (DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION).



(A) KEY MAP - DEEP COASTAL BOUNDARY
SCALE: NOT TO SCALE



(B) BESS AREA
SCALE: 1/8"=1'-0"



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Q CELLS
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NEW LONDON, CT 06320
LAT=N 41° 21'38.4"
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PROJECT #: 069-1000

SHEET TITLE
SITE PLAN

DRAWN BY CB	SHEET #
DATE 02/08/23	E.100
CHECKED BY TRIPP HYDE	

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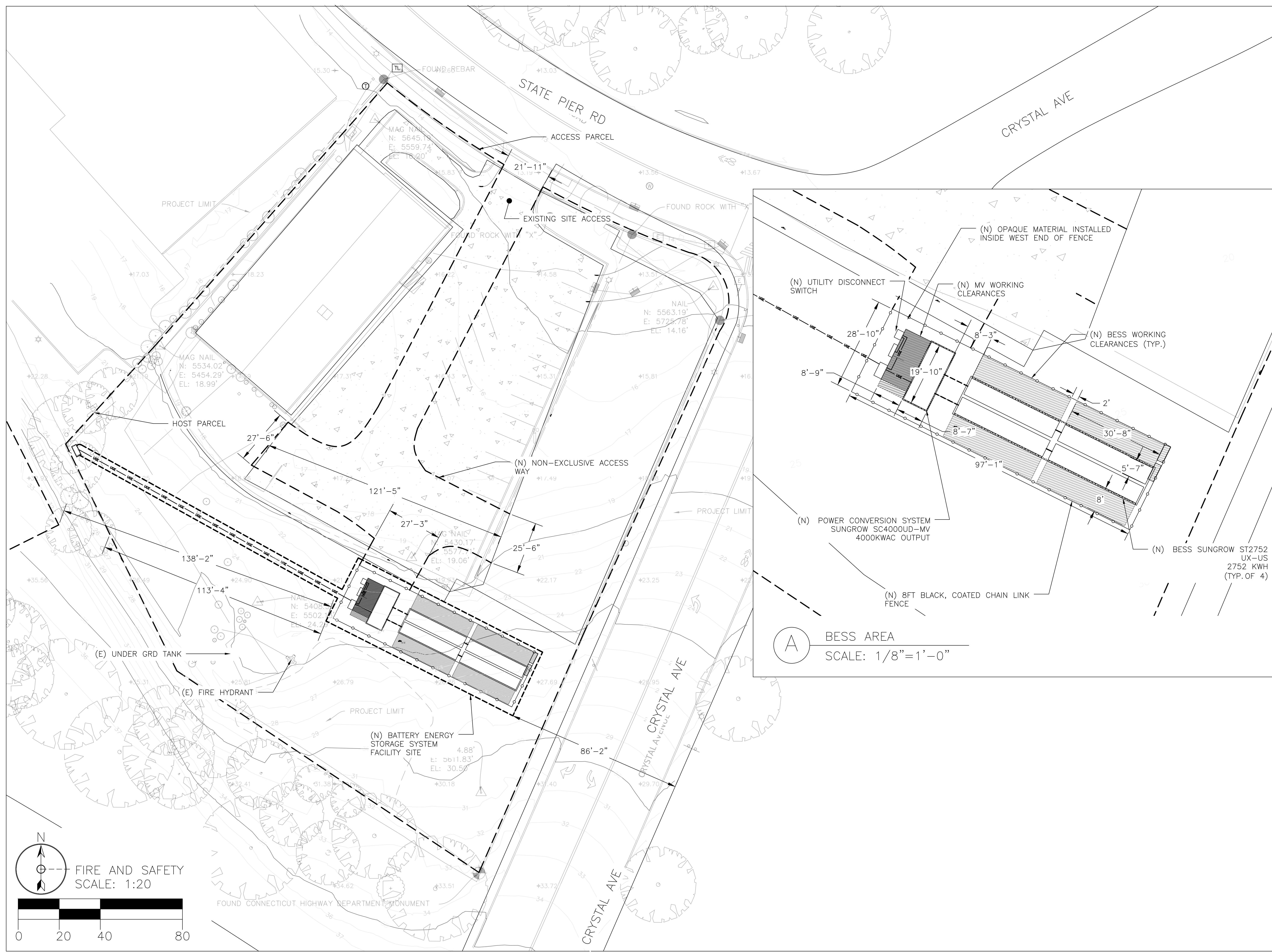
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STATE PIER RD
STATE PIER RD
NEW LONDON, CT 06320
LAT=N 41° 21'38.4"
LON=W 72° 05'56.0"

PROJECT #: 069-1000

SHEET TITLE
FIRE & SAFETY

DRAWN BY	SHEET #
CB	E.110
DATE	
02/08/23	
CHECKED BY	
TRIPP HYDE	



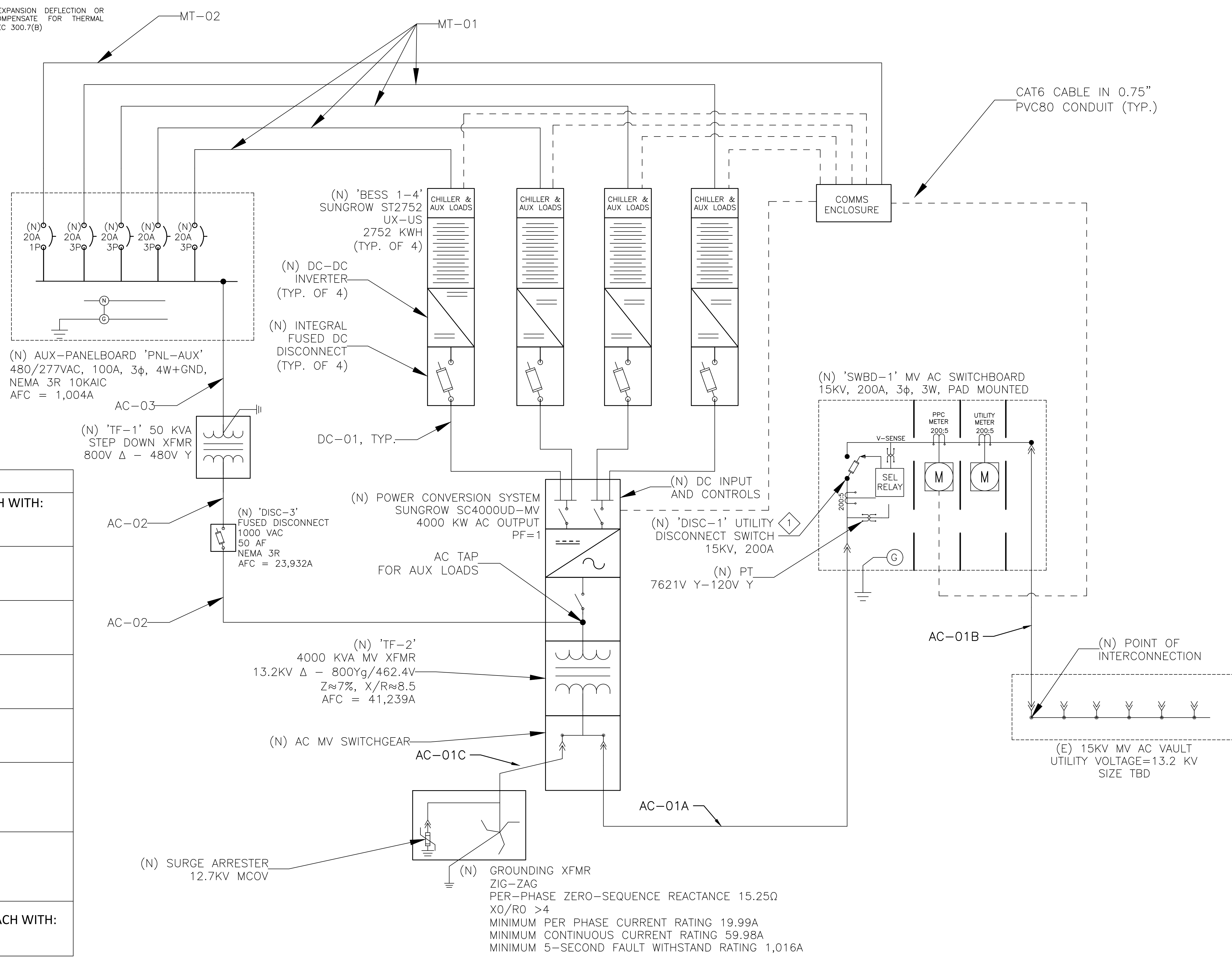
A BESS AREA
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL EQUIPMENT MUST BE UL LISTED BY A RECOGNIZED BY NRTL
2. ALL EQUIPMENT WIRING AND GROUNDING SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED PRACTICES. REFER TO THE INSTALLATION AND USER MANUALS FOR GUIDANCE.
3. EXPOSED NON-CURRENT CARRYING METAL PARTS OF MODULE FRAMES, EQUIPMENT, AND ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC 250.134 AND 250.136. CONTRACTOR TO REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR APPROVED METHOD OF GROUNDING.
4. ALL EXPOSED RACEWAY OPENINGS SHALL BE SEALED USING A SUITABLE METHOD TO PREVENT ENTRY OF INSECTS.
5. NEW OCPD SHALL HAVE THE SAME INTERRUPTING CURRENT RATING(KAIC) AS THE RATING OF THE PANELBOARD OR SWITCHBOARD IN WHICH THEY ARE LOCATED.
6. THE UTILITY COMPANY MUST BE NOTIFIED PRIOR TO USE.
7. HYDE RENEWABLES IS NOT RESPONSIBLE FOR ENGINEERING ON EXISTING CIRCUITS
8. BONDING SHALL BE PROVIDED WHERE NECESSARY TO ENSURE ELECTRICAL CONTINUITY AND CAPACITY TO CONDUCT SAFETY.
9. SYSTEM INCLUDING CONDUIT AND CONDUCTORS SHALL BE INSTALLED IN A NEAT AND A WORKMANLIKE MANNER IN ACCORDANCE WITH NEC 110.12.
10. ALL ELECTRICAL EQUIPMENT EXPOSED RACEWAYS, CONDUCTORS, AND CONNECTIONS SHALL BE MECHANICALLY SECURED VIA HARDWARE RATED FOR OUTDOOR AND UV LIGHT EXPOSURE AND WITH A DESIGN LIFE GREATER THAN ANTICIPATED LIFE EXPECTANCY OF THE SYSTEM.
11. RACEWAY SHALL BE PROVIDED WITH EXPANSION. EXPANSION DEFLECTION OR DEFLECTION FITTINGS WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION, DEFLECTION AND CONTRACTION AS PER NEC 300.7(B)
12. ALL PARALLEL CONDUCTORS MUST BE COLOR CODED.

SHEET NOTES:

1. THE UTILITY ISOLATION DEVICE SHALL BE GANGED, MANUALLY-OPERATED & LOCKABLE WITH VISIBLE BLADE SEPARATION, PERMANENT SIGNAGE INDICATING THE OPEN & CLOSED POSITION, AND BE ACCESSIBLE TO UTILITY PERSONNEL 24 HOURS A DAY PER UTILITY REQUIREMENTS.



CONDUCTOR TAG	
DC-01 - 6 SETS OF 3" PVC 40 HDPE EACH WITH:	(2) #600KCMIL ϕ CU THWN-2 (1) #350KCMIL EGC THWN-2
AC-01A - 2" PVC 40 HDPE WITH:	(3) #2/0AWG ϕ CU MV-105 (1) #4AWG EGC THWN-2
AC-01B - 2" PVC 80 WITH:	(3) #2/0AWG ϕ CU MV-105 (1) #4AWG EGC THWN-2
AC-01C - 2" PVC 80 WITH:	(3) #2/0AWG ϕ CU MV-105 (1) #4AWG EGC THWN-2
AC-02 - 1.25" PVC 40 HDPE WITH:	(3) #6AWG ϕ AL THWN-2 (1) #10AWG EGC THWN-2
AC-03 - 1.25" PVC 40 HDPE WITH:	(3) #3AWG ϕ AL THWN-2 (1) #3AWG N AL 600V THWN-2 (1) #8AWG EGC THWN-2
MT-1 - 0.75" PVC 40 HDPE WITH:	(3) #12AWG ϕ CU THWN-2 (1) #12AWG N CU 600V THWN-2 (1) #10AWG EGC THWN-2
MT-2 - 2 SETS OF 0.75" PVC 40 HDPE EACH WITH:	(3) #12AWG ϕ CU THWN-2

HYDE RENEWABLES
ADVANCED ENGINEERING SOLUTIONS

qcells
Completely Clean Energy

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BY	REV	ISSUE	DATE

FIRM NAME AND ADDRESS
HYDE RENEWABLES, INC
4735 WALNUT ST, SUITE #110
BOULDER, CO 80301
INFO@HYDERENEWABLES.COM
720-900-1009
WWW.HYDERENEWABLES.COM

PROJECT NAME AND ADDRESS
Q CELLS
STATE PIER RD
STATE PIER RD
NEW LONDON, CT 06320
LAT=N 41° 21'38.4"
LON=W 72° 05'56.0"

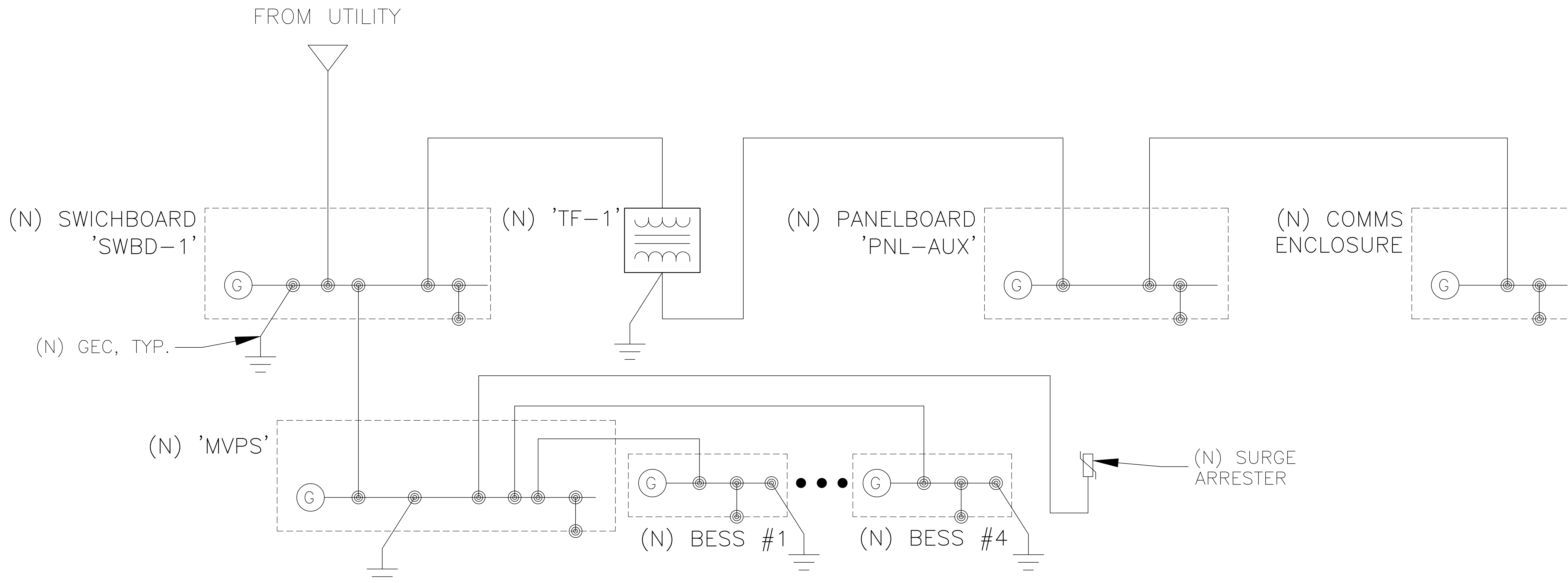
PROJECT #: 069-1000

SHEET TITLE
SLD

DRAWN BY CB	SHEET # E.200
DATE 02/08/23	
CHECKED BY TRIPP HYDE	

GENERAL NOTES:

1. SEE SINGLE LINE FOR ADDITIONAL INFORMATION ON E.200.
2. GROUND WIRE TO BE PROTECTED FROM PHYSICAL DAMAGE, PER NEC 250.120(C)
3. GROUNDING EARTH RESISTANCE SHALL NOT EXCEED 25 OHMS. IF A SINGLE ROD, PIPE OR PLATE HAS AN EARTH RESISTANCE IN EXCESS OF 25 OHMS, SUPPLEMENTAL GROUNDING ELECTRODES SHALL BE ADDED AT 6 FEET MAXIMUM INTERVALS TO ACHIEVE EARTH RESISTANCE LESS THAN 25 OHMS.
4. EQUIPMENT BONDING JUMPERS TO BE CU OR EQUIV. TYPE LISTED IN NEC 250.102.
5. GROUNDING CONDUCTORS NOT ROUTED IN RACEWAYS TO BE MIN. #6AWG CU.



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PROJECT #: 069-1000

SHEET TITLE
GND

DRAWN BY	SHEET #
CB	E.210
DATE	
02/08/23	
CHECKED BY	
TRIPP HYDE	

CONDUITS				
#	SIZE	TYPE	CONDUIT FILL [%]	CONDUCTOR ID
6	3"	PVC 40 HDPE	31.10	DC-01
1	2"	PVC 40 HDPE	22.73	AC-01A
1	2"	PVC 80	26.03	AC-01B
1	2"	PVC 80	26.03	AC-01C
1	1.25"	PVC 40 HDPE	11.98	AC-02
1	1.25"	PVC 40 HDPE	29.25	AC-03
1	0.75"	PVC 40 HDPE	14.37	MT-1
2	0.75"	PVC 40 HDPE	7.68	MT-2

CONDUCTORS							AMPACITY CHECK						
FROM	TO	CONDUCTOR ID	# OF PHASES	NEUTRAL	OPERATING VOLTAGE [V]	CONTINUOUS LOAD [A]	125% CONTINUOUS LOAD [A]	OCPD RATING [A]	TEMP DERATE	BUNDLE DERATE	90°C AMPACITY [A]	90°C AMP. DERATED FOR C.O.U. [A]	75°C AMPACITY [A]
BESS	SC4000	DC-01	1-PHASE	NO NEUTRAL	1500	1775	2218.8	2500	1	1	475	2850	2520
SC4000	SWB1	AC-01A	3-PHASE	NO NEUTRAL	13200	175	218.8	225	1	1	255	255	#N/A
SWB1	POI	AC-01B	3-PHASE	MIN. SIZE	13200	175	218.8	225	1	1	255	255	#N/A
SC4000	GROUNDING XFMR	AC-01C	3-PHASE	MIN. SIZE	13200	175	218.8	225	1	1	255	255	#N/A
TF1	TF2	AC-02	3-PHASE	NO NEUTRAL	800	40	50.0	50	1	1	55	55	50
TF2	AUX PANELBOARD	AC-03	3-PHASE	FULL SIZE	480	60	75.0	80	1	0.8	85	68	75
AUX PANELBOARD	BESS	MT-1	3-PHASE	FULL SIZE	480	20	25.0	25	1	0.8	30	24	25
AUX PANELBOARD	COMMS	MT-2	3-PHASE	FULL SIZE	277	20	25.0	NA	1	1	30	60	50

CONDUCTOR SPECS															
CONDUCTOR ID	PHASE CONDUCTORS				PARALLEL CONDUCTORS	NEUTRAL CONDUCTOR			GROUND CONDUCTOR				LENGTH (FT)		
	#	SIZE	TYPE	CU		#	SIZE	TYPE	#	SIZE	TYPE	EGC			
DC-01	2	#600KCMIL	THWN-2	CU 1000/2000V	6				1	#350KCMIL	THWN-2	CU 600V	EGC	10	
AC-01A	3	#2/OAWG	MV-105	CU 15KV MV-105	1				1	#4AWG	THWN-2	CU 600V	EGC	10	
AC-01B	3	#2/OAWG	MV-105	CU 15KV MV-105	1				1	#4AWG	THWN-2	CU 600V	EGC	120	
AC-01C	3	#2/OAWG	MV-105	CU 15KV MV-105	1				1	#4AWG	THWN-2	CU 600V	EGC	120	
AC-02	3	#6AWG	THWN-2	AL 1000/2000V	1	0			1	#10AWG	THWN-2	CU 600V	EGC	10	
AC-03	3	#3AWG	THWN-2	AL 600V	1	1	#3AWG	THWN-2	AL 600V	1	#8AWG	THWN-2	CU 600V	EGC	10
MT-1	3	#12AWG	THWN-2	CU 600V	1	1	#12AWG	THWN-2	CU 600V	1	#10AWG	THWN-2	CU 600V	EGC	10
MT-2	3	#12AWG	THWN-2	CU 600V	2									10	

AC VOLTAGE DROP AND SHORT CIRCUIT ANALYSIS			
FROM	TO		V-DROP [%]
SC4000	SWB1		0.002
SWB1	POI		0.028
		TOTAL	0.030
TF1	TF2		0.070
TF2	AUX PANELBOARD		0.087
		TOTAL	0.160

TEMPERATURE CONSIDERATIONS	
STC TEMPERATURE [°C]	25.00
ASHRAE 2% HIGH AMBIENT TEMPERATURE [°C]	30.00
ASHRAE EXTREME MIN. LOW AMBIENT TEMPERATURE [°C]	-14.00
TEMPERATURE DIFFERENCE LOW TEMP [°C]	39.00
TEMPERATURE DIFFERENCE HIGH TEMP [°C]	5.00

AFC CALCULATION					
CONDUCTOR ID	VOLTAGE (V)	LENGTH	RESISTANCE (OHM/1000FT)	STARTING POINT AFC	END POINT AFC
AC-02	800	10	0.81	41239.00	23931.51
AC-03	480	10	0.4	1019.20	1004.42



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PROJECT #: 069-1000

SHEET TITLE
CALCS

DRAWN BY CB	SHEET #
DATE 02/08/23	E.220
CHECKED BY TRIPP HYDE	

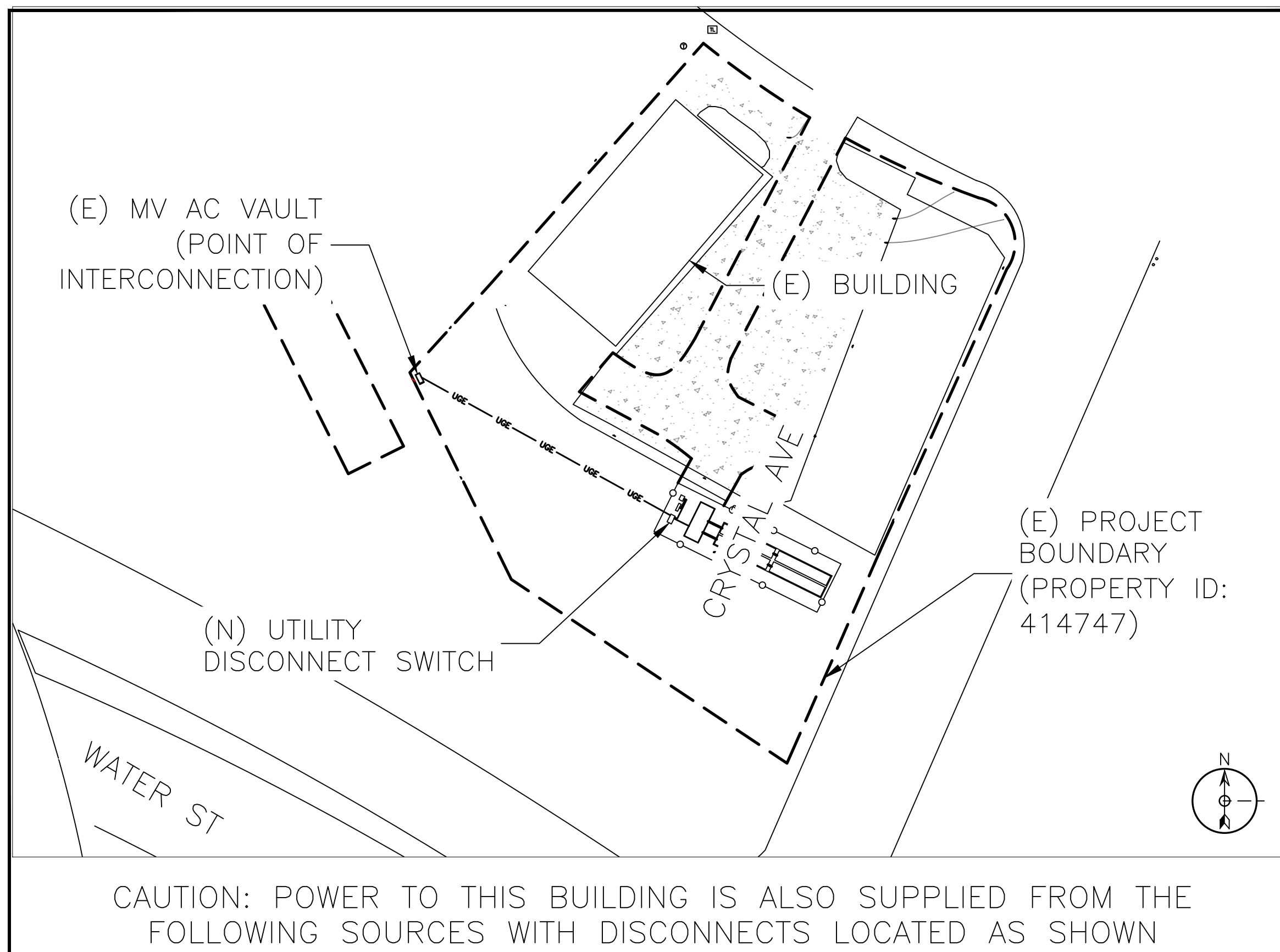
LABELS AND WARNINGS:

NOTE: THE WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21(B). PLAQUES WILL HAVE LETTER ENGRAVED ON A METAL OR PLASTIC PLAQUE. PLAQUES SHALL HAVE A RED BACKGROUND WITH ENGRAVED LETTERING. ATTACH PLAQUE USING OUTDOOR RATED ADHESIVE OR WITH RIVETS OR SCREWS WHILE MAINTAINING ENCLOSURE RATING. THE LABEL SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN. THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED UNLESS OTHERWISE SPECIFIED ALL LETTERING HEIGHT FOR LABELS AND WARNING SHALL BE 1/4". FONT TYPE TO BE AERIAL NARROW. PLAQUES CONTAINING THE WORD "WARNING" LETTERING HEIGHT WILL BE 3/4" AERIAL BOLD.

SCHEDULE OF LABELS	
SIGN ID	PLACEMENT LOCATION(S)
L01	DISCONNECT(S), DISTRIBUTION PANEL(S), JUNCTION BOX(ES), COMBINER BOX(ES), SWITCHBOARD(S), MAIN SERVICE
L02	EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS
L03	MAIN SERVICE DISCONNECT
L04	MAIN SERVICE DISCONNECT
L05	MAIN SERVICE BESS / PV DISCONNECTS
L06	TESLA AC DISCONNECT
L07	MAIN SERVICE DISCONNECT
L08	MAIN SERVICE DISCONNECT
L09	TESLA AC DISCONNECT

LABELING REQUIREMENTS

1. SIGNS MUST BE WEATHER RESISTANT AND IN ACCORDANCE WITH UL 969. MARKINGS MUST HAVE ALL CAPITALIZED LETTERS WITH AN ARIAL OR SIMILAR FONT, NON-BOLD.
2. REFER TO TABLE FOR SIGNAGE LOCATIONS.
3. ALL LABELS 6" X 4" UNLESS OTHERWISE NOTED
4. ALL SIGNAGE TO BE FURNISHED AND INSTALLED BY CONTRACTOR



SIGN L07 - LABEL REQUIRED PER NEC690.56(B) AND 705.10
 NOTE: MAPS SHALL BE LOCATED AT THE MAIN SERVICE. MAPS LOCATED OUTDOORS SHALL BE ENGRAVED LETTERS ON A METAL OR PLASTIC PLAQUE. MAPS LOCATED INDOORS MAY BE LAMINATED PRINTS. MAPS SHALL HAVE A RED BACKGROUND WITH THE WHITE LETTERING AND ATTACHED USING A SUITABLE ADHESIVE OR WITH RIVETS OR SCREWS WHILE MAINTAINING ENCLOSURE RATING

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS.
 TERMINALS ON BOTH THE LINE AND
 LOAD SIDES MAY BE ENERGIZED IN
 THE OPEN POSITION

SIGN L01 - REQ'D PER NEC 690.13(B)
 APPLY TO: DISCONNECT(S), DISTRIBUTION PANEL(S), JUNCTION BOX(ES), COMBINER BOX(ES), SWITCHBOARD(S), MAIN SERVICE

WARNING

DO NOT DISCONNECT UNDER LOAD

SIGN L02 - LABEL REQUIRED PER NEC 690.15(C)
 APPLY TO: CABLES, ISOLATING DEVICES PER NEC 690.33, FUSE HOLDER

WARNING

THIS EQUIPMENT FED BY MULTIPLE
 SOURCES. TOTAL RATING OF ALL
 OVERCURRENT DEVICES EXCLUDING
 RATING OF MAIN SUPPLY
 OVERCURRENT DEVICE SHALL NOT
 EXCEED RATING OF BUSBAR

SIGN L03 - LABEL REQUIRED PER NEC 705.12(B)(2)(3)(C)
 APPLY TO: MAIN SERVICE

WARNING

ARC FLASH HAZARD

APPROPRIATE PPE REQUIRED

FAILURE TO COMPLY MAY RESULT
 IN INJURY OR DEATH

REFER TO NFPA 70E

SIGN L04 - REQ'D BY NEC 110.16
 APPLY TO: MAIN SERVICE

WARNING

POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS
 OVERCURRENT DEVICE

SIGN L05 - LABEL REQUIRED PER NEC 705.12(B)(2)(3)(B)
 APPLY TO: MAIN SERVICE

WARNING

ENERGY STORAGE
 SYSTEM DISCONNECT

SIGN L06 - LABEL REQUIRED PER NEC 706.15(C)
 APPLY TO: TESLA BESS AC DISCONNECT

WARNING

NUMBER OF POWER SOURCES:
 2ND SOURCE IS BESS

AN ADDITIONAL POWER SOURCE IS PRESENT IN
 THIS EQUIPMENT:
 SEE "LOCATION OF FACILITY'S POWER SYSTEMS
 DISCONNECTING MEANS" FOR LOCATION OF POWER
 SOURCE.
 TURN OFF DISCONNECT PRIOR TO SERVICING
 THIS EQUIPMENT

SIGN L08 - LABEL REQUIRED PER NEC 690.54
 PLACED ADJACENT TO MAIN SERVICE DISCONNECT

WARNING

ARC FLASH AND SHOCK HAZARD
 APPROPRIATE PPE REQUIRED

FLASH PROTECTION INCIDENT ENERGY AT: 18" MIN. ARC RATING - 1.8CAL/CM ² ARC FLASH BOUNDARY: 22.8" HAZARD RISK CATEGORY: 1 GLOVE CLASS: 00	SHOCK PROTECTION SHOCK RISK WHEN COVER IS REMOVED: 480VAC LIMITED APPROACH BOUNDARY: 42" RESTRICTED APPROACH BOUNDARY: 12"
PPE: 1. SHIRT & PANTS OR COVERALL NONMELTING (ASTM F1506) OR UNREINFORCED FIBER 2. HARD HAT 3. SAFETY GLASSES 4. HEARING PROTECTION	EQUIPMENT ID: TESLA AC DISCONNECT

SIGN L09 - LABEL REQUIRED PER NEC 110.16
 APPLY TO: TESLA BESS AC DISCONNECT SWITCH



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 720-900-1009
 WWW.HYDERENEWABLES.COM

PROJECT NAME AND ADDRESS
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 LAT=N 41° 21'38.4"
 LON=W 72° 05'56.0"

PROJECT #: 069-1000

SHEET TITLE
 SIGNAGE 01

DRAWN BY CB	SHEET #
DATE 02/08/23	E.300
CHECKED BY TRIPP HYDE	



The LiteLink® Slat is one of the most economical chain-link enhancement products available in the market today.

Manufactured using the same durable outdoor plastic as our standard tubular fence slats, this single wall "M" shaped slat will give you the visual screening and color enhancement you desire at a very affordable price. LiteLink also uses our innovative Bottom Locking system for fast and easy installation.

Design

Compact and lightweight, LiteLink's unique shape enables the slat to self stack. It comes in a box (2" x 5" x slat length) making it easy to ship and efficient to store.

Standard Heights

4, 5, 6, 7, 8, 10 and 12 feet. Special heights available upon request.

Slat Length

3½" shorter than the overall height of fence.

Bottom Locking Channel

10 feet provided in each bag.

Wind Load & Privacy Factor

Approximately 75%.



Colors*



Made in the USA



* Exact representation of slat colors in printing is difficult. Please refer to actual color samples for final matching. Covered by one or more of the following patents: US Patent 6,068,243 / 5,165,664 / 5,234,199

www.PrivacySlatKing.com | (800) 878-7829 | Sales@PrivacySlatKing.com

PRODUCT SPECIFICATIONS

Slat Type	Slat Width	Mesh Size	Wire Gauge	Slats Per Bag	Approx. Coverage Per Box
LiteLink®	1¼"	2", 2¼" or 2¾"	9, 11 or 11½	82	10 linear feet

Materials

The LiteLink product is extruded from High Density Polyethylene (HDPE), color pigments and ultra violet (UV) inhibitors, specifically designed to retard the harmful effects of the sun and lengthen the life of the product.

Durability

Pexco PDS® HDPE Fence Products are resistant to: severe weather conditions, salt water, sand, road dirt, most acids, alcohol, alkaline, ammonia, petroleum distillates, and common environmental pollutants.

Maintenance

Pressure cleaning of surface contaminants is quickly accomplished with plain water.

Wind Load Disclaimer

Pexco will not be responsible for damage due to wind load conditions resulting from insufficient structural support.

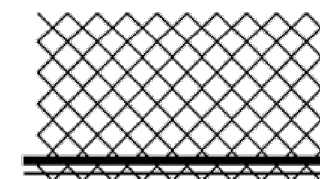
Limited Warranty

LiteLink carries a 7-year, pro-rata warranty against breakage under normal conditions. Write Pexco for full warranty information.

Installation Instructions

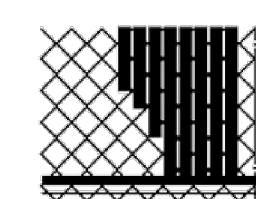
Step 1

Insert rail horizontally in first full diamond at bottom of fence with open side facing up.



Step 2

Insert vertical slats with interlocking tab downward. Slat engages and interlocks with bottom rail.



Step 3

Push the vertical slat into the horizontal channel to lock-in place.



HDPE Technical Properties

Property	Value
Melt Index	(.35) Optimum extrusion processing conditions for Fence Slats
Density	(.945) Polyethylene ranges anywhere from .914 to .960 in density
Minimum Temp.	(-70°) Under no stress, HDPE remains flexible at this temperature
Maximum Temp.	(180°) Under no stress, HDPE will not distort at this temperature
Tensile Strength	(3,700 psi) HDPE will not distort at lesser loads or impacts

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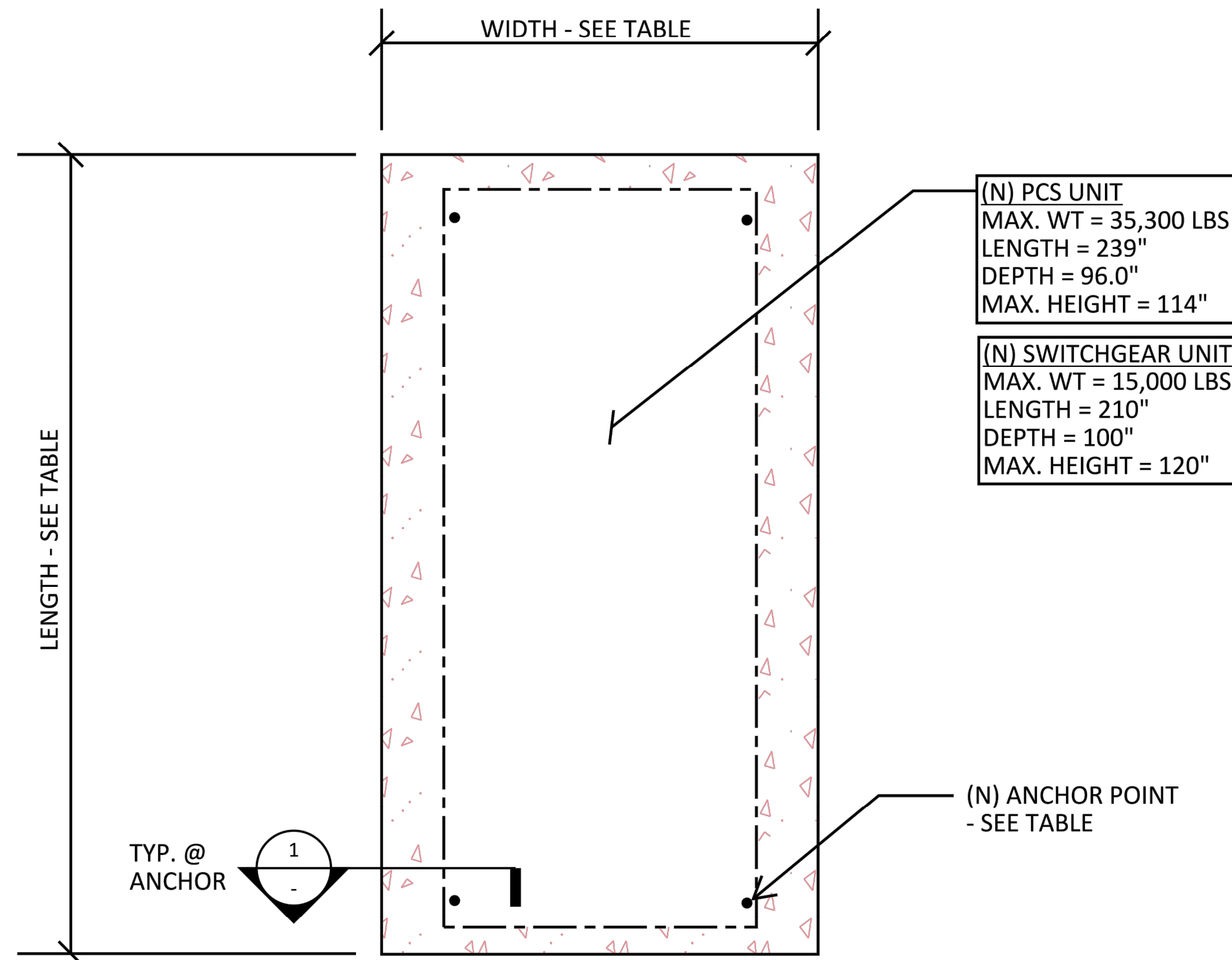
PROJECT #: 069-1000

SHEET TITLE
 SPECS 02

DRAWN BY CB	SHEET # E.401
DATE 02/08/23	
CHECKED BY TRIPP HYDE	

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- NOTES:**
1. CONCRETE PAD SHALL ACHIEVE MIN. 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI
2. ALIGN CENTER OF THE UNIT TO THAT OF THE CONCRETE PAD

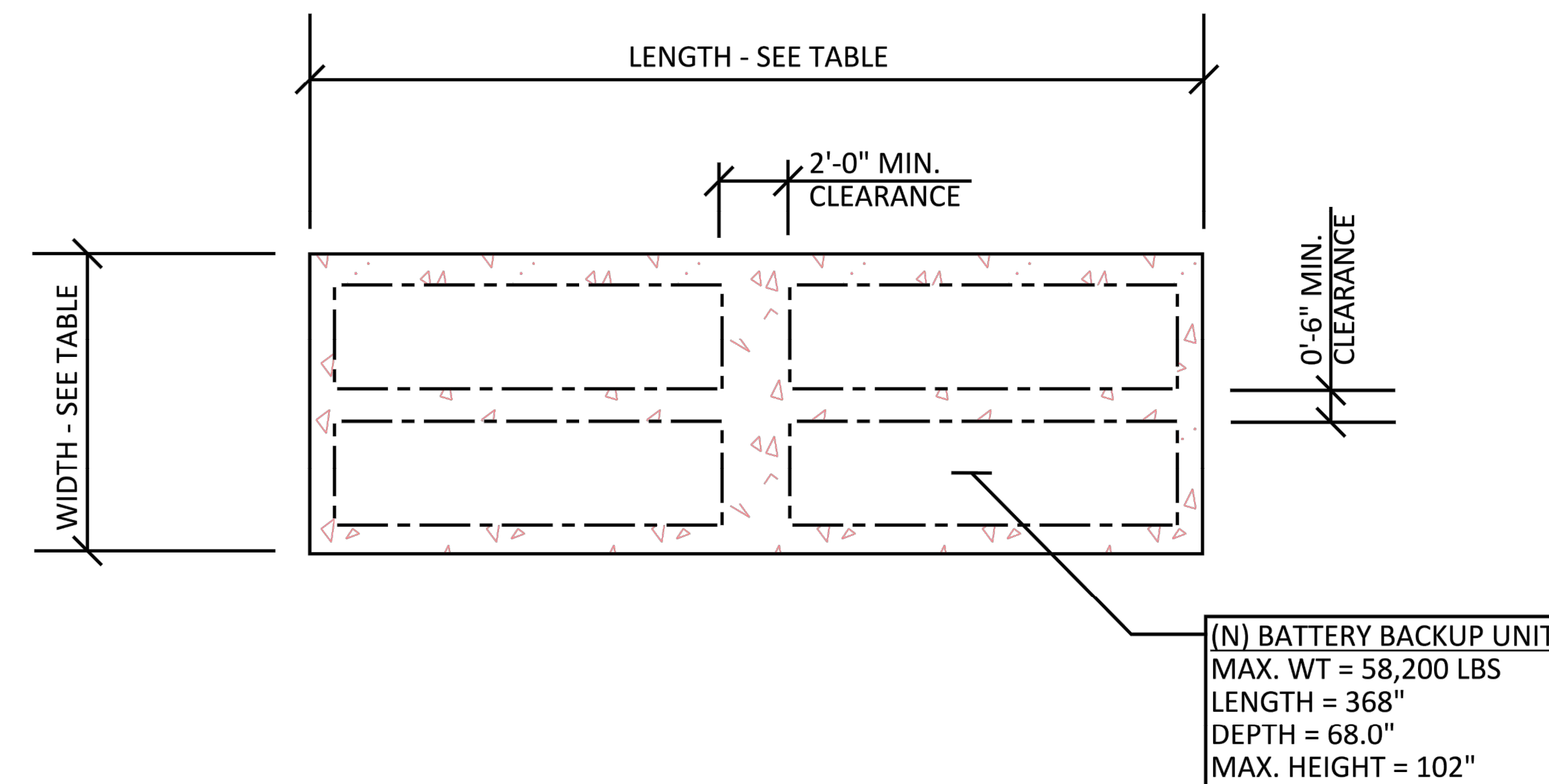
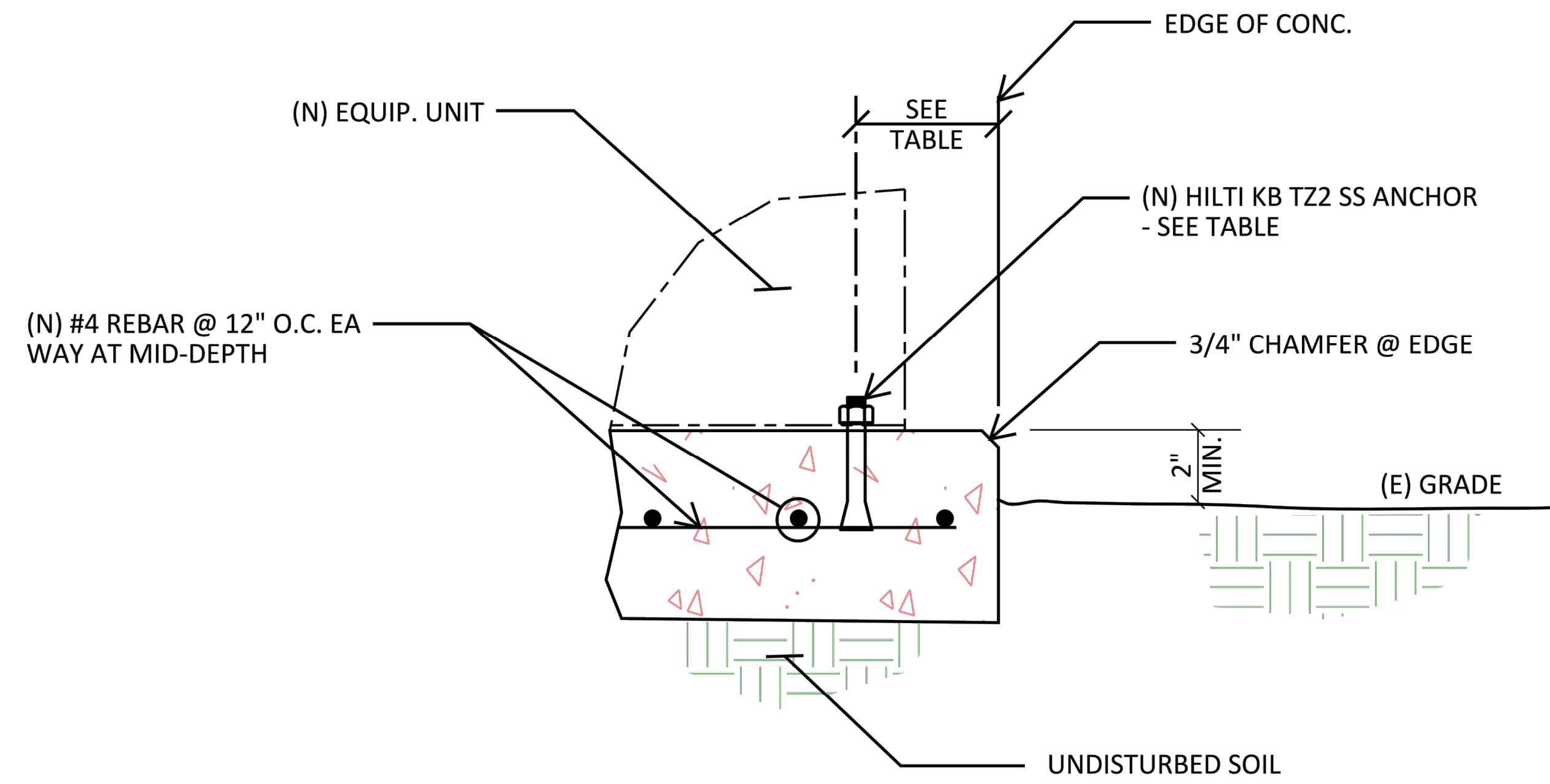
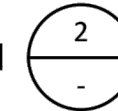


PCS & SWITCHGEAR UNIT LAYOUT
N.T.S.

EQUIPMENT PAD TABLE			
CONCRETE PAD	LENGTH	WIDTH	THICKNESS
1 BESS UNIT	64'-0"	13'-4"	8"
PCS UNIT	20'-6"	8'-8"	
SWITCHGEAR	18'-2"	9'-0"	

EQUIPMENT ANCHORAGE TABLE				
ANCHORAGE	DIA.	NOMINAL EMB.	MIN. EDGE DIST.	QTY.
2 BESS UNIT	5/8"	4 1/2"	4"	8
PCS UNIT		3 1/4"		6
SWITCHGEAR		2 1/2"		

1 PAD ACCOUNTS FOR (4) BESS UNITS IN 2 BY 2 LAYOUT AS SHOWN
2 ANCHORAGE ACCOUNTS FOR (1) BESS UNIT EACH



(N) BATTERY BACKUP UNIT
MAX. WT = 58,200 LBS
LENGTH = 368"
DEPTH = 68.0"
MAX. HEIGHT = 102"



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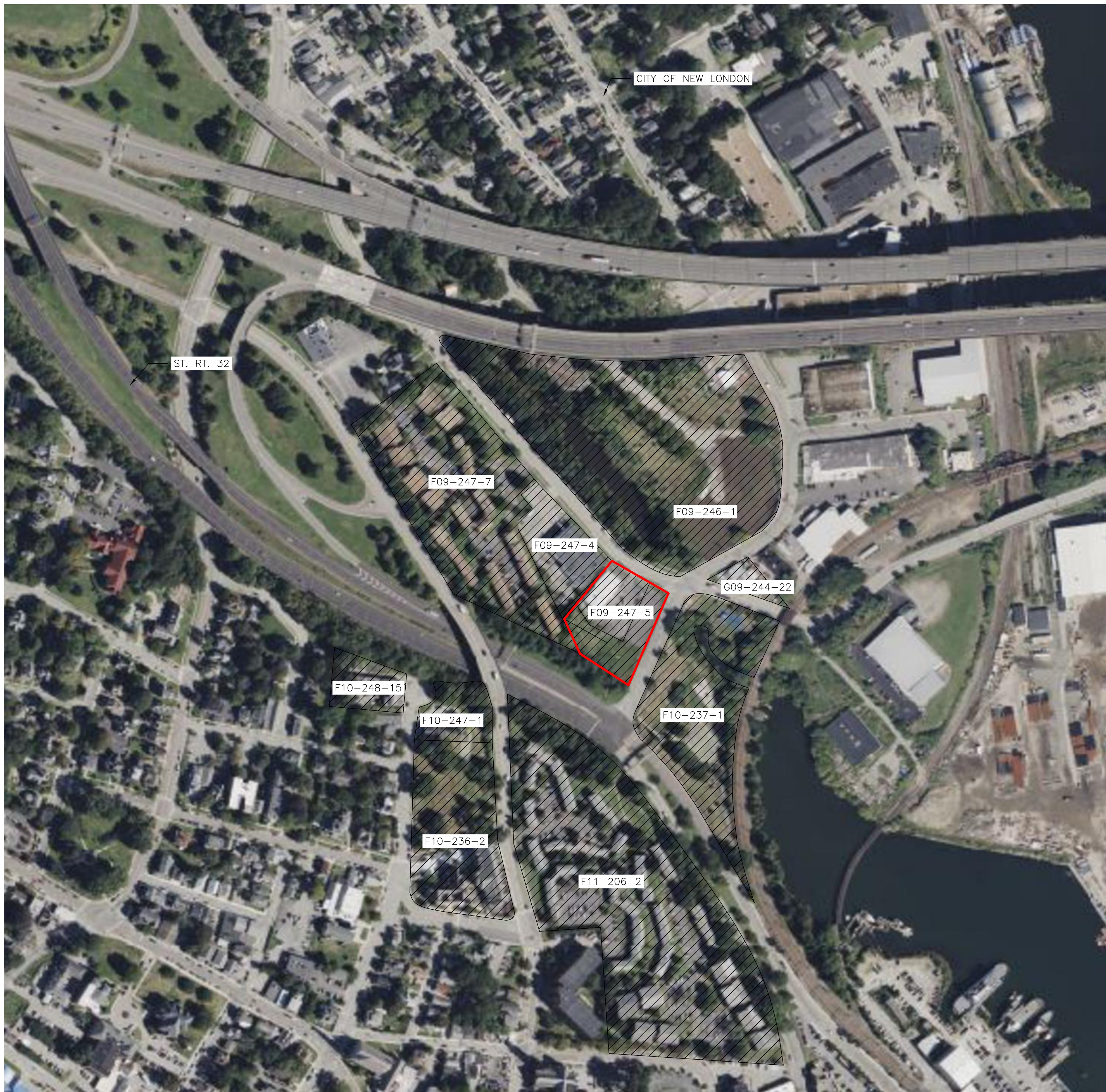
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SHEET TITLE
STRUCTURAL

DRAWN BY	SHEET #
CB	S.000
DATE	
02/08/23	
CHECKED BY	
TRIPP HYDE	



SITE VICINITY MAP		
BUSINESS NAME	ADDRESS	PROPERTY ID
CEFALU NEW LONDON LLC	163 STATE PIER ROAD	F10-247-5
CITY OF NEW LONDON	40 CRYSTAL AVENUE	F09-246-1
KERNOZEK HOLDING COMPANY LLC	6 STATE PIER ROAD	G09-244-22
CITY OF LONDON	CRYSTAL AVENUE	F10-237-1
STATE OF CONNECTICUT	CONNECTICUT STATE ROUTE 32	STATE ROUTE
VESTA WINTHROP	59 FEDERAL STREET	F11-206-2
CHILD AND FAMILY AGENCY OF SOUTHEASTERN CT	255 HEMPSTEAD STREET	F10-247-1
STATE OF CONNECTICUT	264 HEMPSTEAD STREET	F10-248-15
VESTA WINTHROP GROUP LLC	HUNTINGTON STREET	F09-247-07
ERIC FILARDI REALTY LLC	145 STATE PIER ROAD	F09-247-4



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SHEET TITLE
 SITE VICINITY MAP

DRAWN BY CB	SHEET #
DATE 02/08/23	E.500
CHECKED BY TRIPP HYDE	

National Flood Hazard Layer FIRMette



72°6'13"W 41°21'53"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway

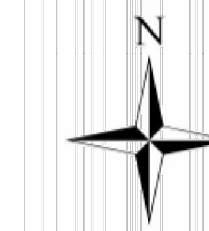
- OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D

- OTHER AREAS**
 - Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D

- GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall

- OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature

- MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/6/2024 at 12:26 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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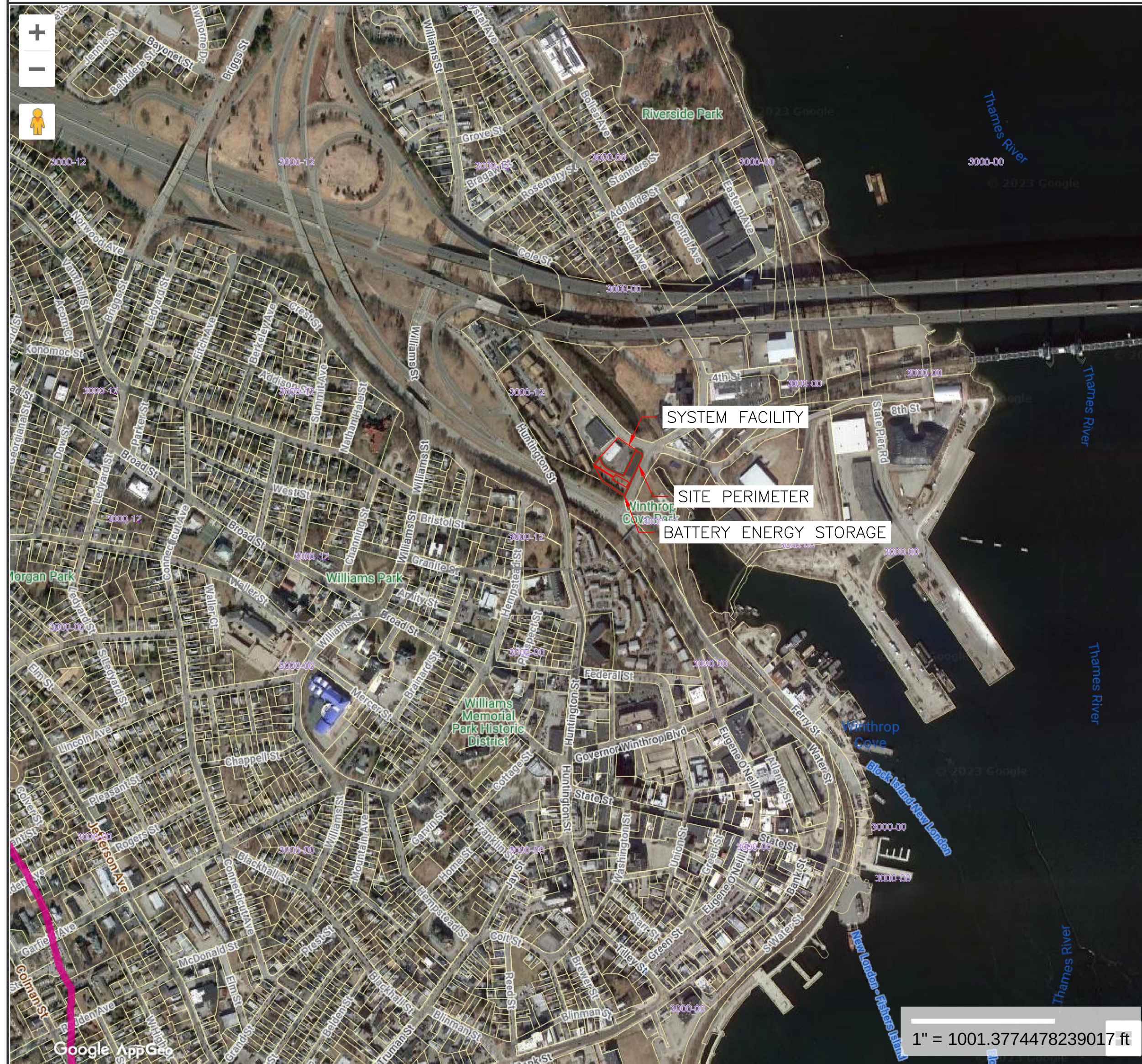
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SHEET TITLE
 ENVIRONMENTAL
 RESOURCES

DRAWN BY CB	SHEET #
DATE 02/08/23	E.501
CHECKED BY TRIPP HYDE	

Watersheds



Map Theme Legends

Watersheds

- Major Basin
- Regional Basin
- Subregional Basin
- Local Basin

[Local Drainage Basins Line](#)

Property Information

Property ID 95-F10-247-5A
Location STATE PIER RD
Owner CEFALU NEW LONDON LLC



**MAP FOR REFERENCE ONLY
 NOT A LEGAL DOCUMENT**

SCCOG makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 05/31/2017
 Data updated 09/21/2023

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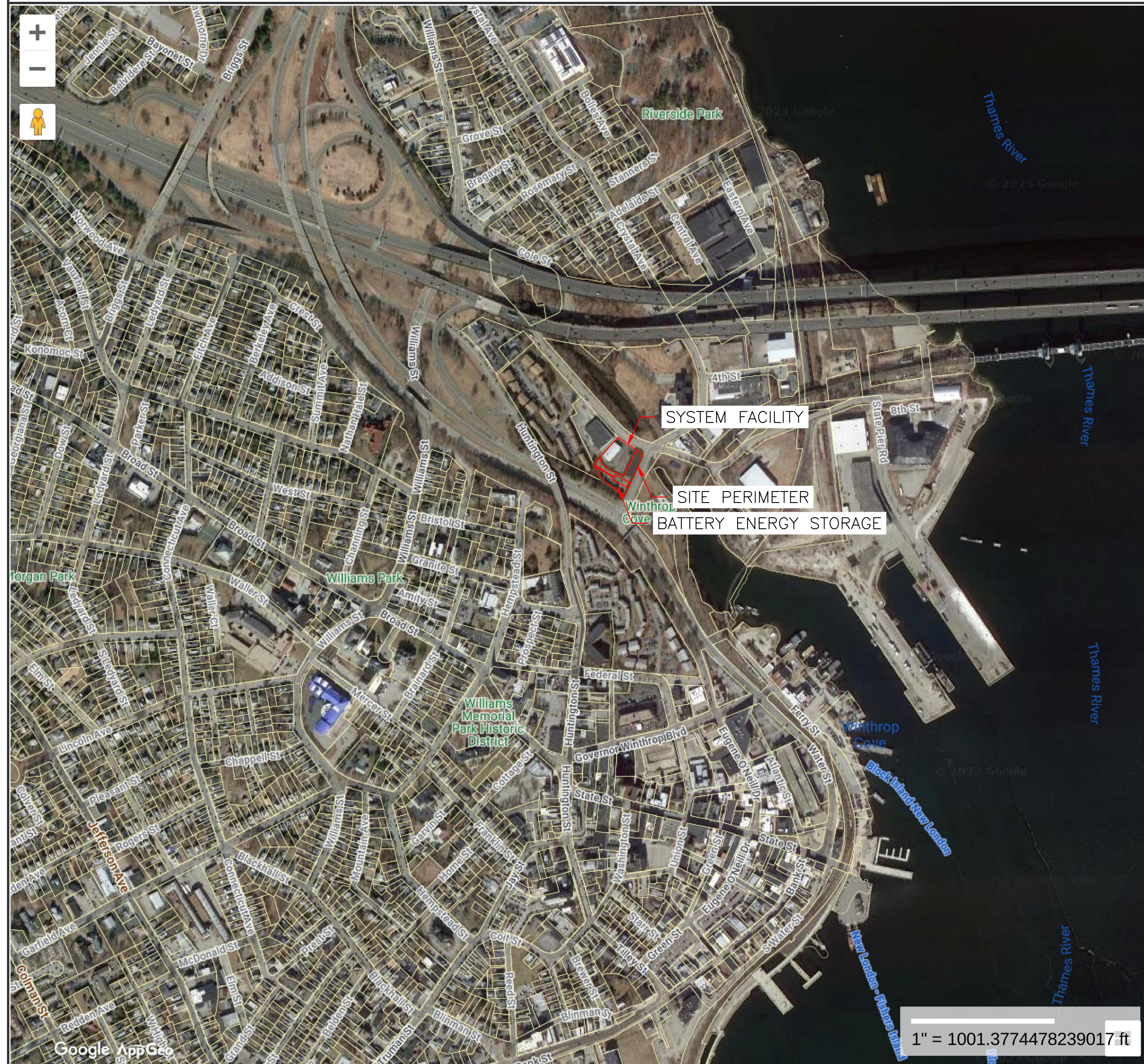
PROJECT #: 069-1000

SHEET TITLE
 ENVIRONMENTAL
 RESOURCES 2

DRAWN BY	SHEET #
CB	E.502
DATE	
CHECKED BY	

02/08/23
 TRIPP HYDE

State Wetlands



Property Information
Property ID 95-F10-247-5A
Location STATE PIER RD
Owner CEFALU NEW LONDON LLC



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Map Theme Legends

State Wetlands

- Poorly Drained and Very Poorly Drained Soils
- Alluvial and Floodplain Soils

CT DEEP



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PROJECT #: 069-1000

SHEET TITLE
 ENVIRONMENTAL
 RESOURCES 3

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CB	E.503
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