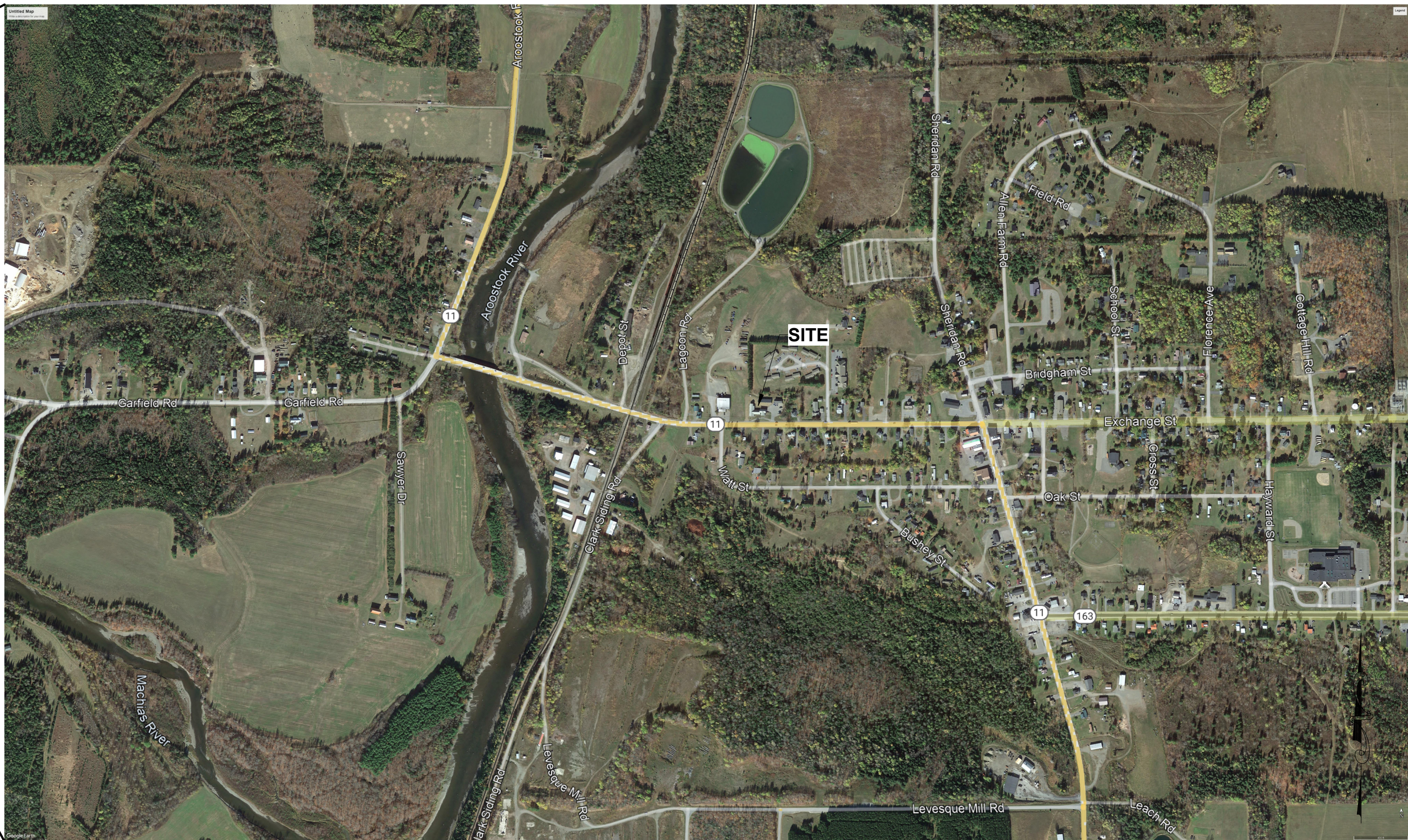
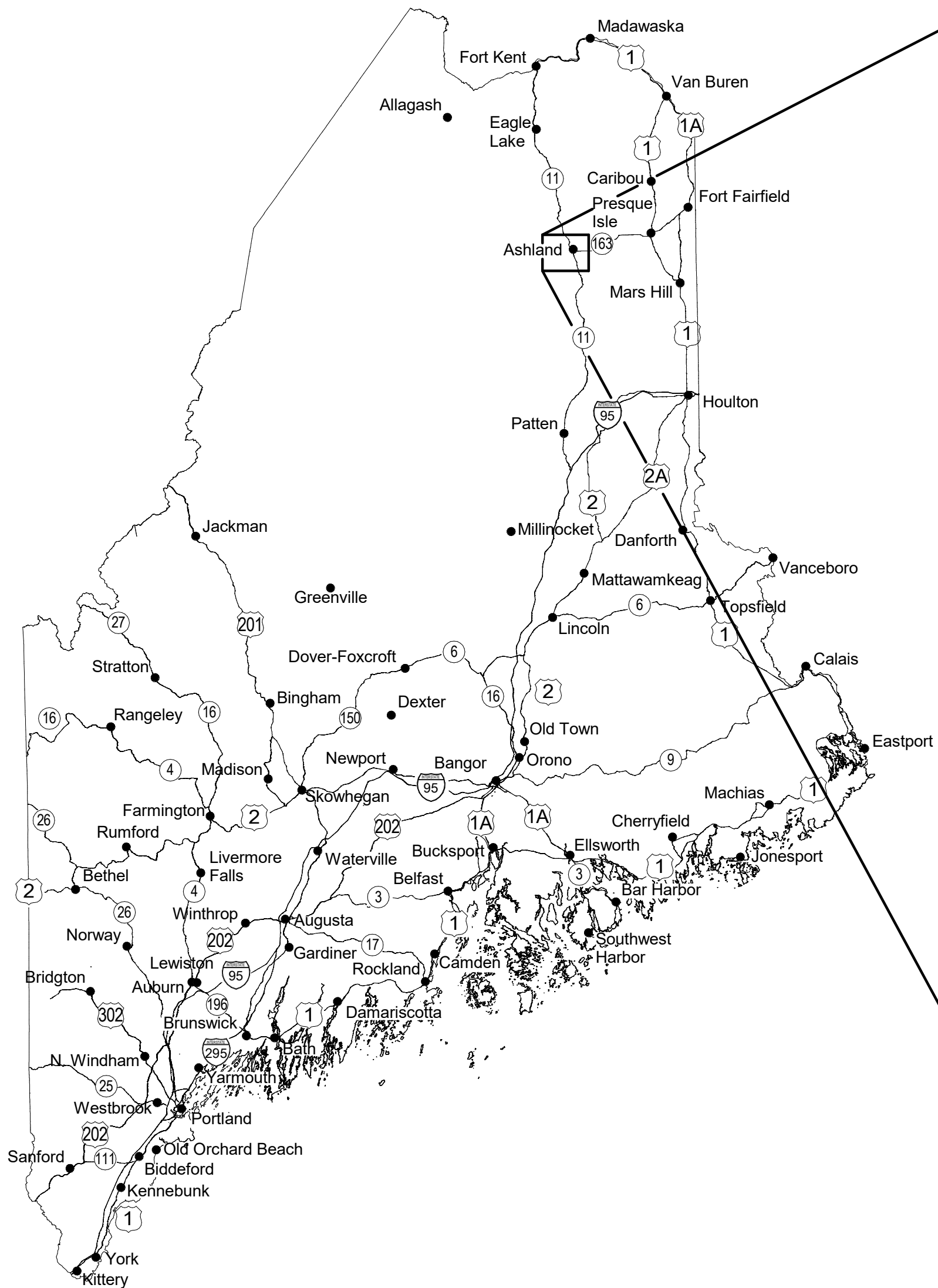


MAINE INLAND FISHERIES & WILDLIFE GENERATOR

63 STATION ST. - ASHLAND, MAINE



SHEET LIST

G001	COVER
E001	ELECTRICAL ABBREVIATIONS, NOTES & DETAILS
E101	ELECTRICAL POWER FIRST FLOOR PLAN
E501	ELECTRICAL SCHEDULES & DETAILS

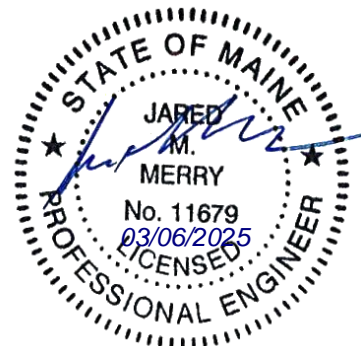
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2025.03.07



HALEY WARD

ENGINEERING | ENVIRONMENTAL | SURVEYING



Autodesk Docs/10377016 - R20 - Maine Inland Fisheries & Wildlife/10377016 - Maine Inland Fisheries & Wildlife - Ashland - E-Constructor.vst

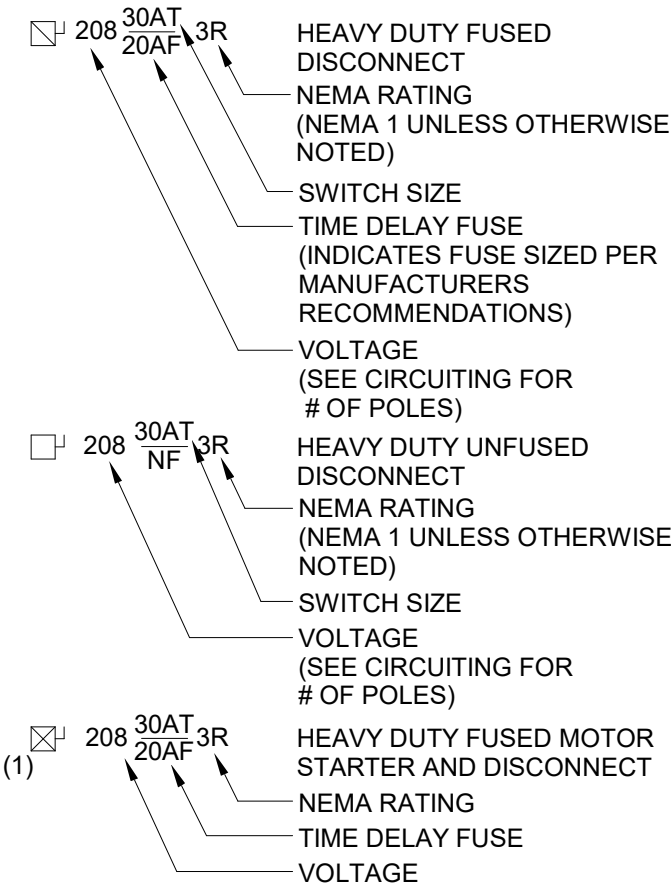
ABBREVIATIONS

A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
AFB	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISH GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CB	CIRCUIT BREAKER
CBM	CERTIFIED BALLASTS MANUFACTURERS
CKT	CIRCUIT
CL	CENTERLINE
CLF	CURRENT LIMITING FUSE
COL	COLUMN
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DWG	DRAWING
EF	EXHAUST FAN
EM	EMERGENCY
ELEV	ELEVATOR
ENT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EW	ELECTRIC WATER COOLER
F	FUSE
FA	FIRE ALARM
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
FT	FEET
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND OR GROUNDING
GRMC	GALVANIZED RIGID METALLIC CONDUIT
HOA	HAND, OFF, AUTOMATIC SWITCH
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
INT	INTERLOCK
IG	ISOLATED GROUND
KMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LTG	LIGHTING
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
P	POLE
PB	PUSHBUTTON
PNL	PANEL
POS	PROVIDED UNDER OTHER SECTIONS
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RMS	ROOT MEAN SQUARED
RNMC	RIGID NON-METALLIC CONDUIT
RTU	ROOF TOP UNIT
SP	SPARE
SW	SWITCH
SYM	SYMMETRICAL
TEL	TELEPHONE
TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
TP	TAMPER PROOF
TYP	TYPICAL
UG	UNDERGROUND OR UNDERGRADE
UL	UNDERWRITERS LABORATORIES
V	VOLT
VT	VOLTAGE TRANSFORMER
W	WIRE
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER
UNOT	UNLESS OTHERWISE NOTED
Y	DELTA
WYE	WYE
Ø	PHASE
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
NL	INDICATES NIGHT LIGHT FIXTURE TO BE CONNECTED TO UNSWITCHED SOURCE ENERGIZED 24 HOURS A DAY

EXISTING EQUIPMENT LEGEND

(E)	EXISTING TO REMAIN
(R)	EXISTING TO BE DISCONNECTED AND REMOVED
(RL)	EXISTING TO BE DISCONNECTED AND RELOCATED
(ER)	EXISTING IN NEW LOCATION
(RP)	EXISTING TO BE REPLACED

EQUIPMENT LEGEND



WIRING DEVICES LEGEND


⊜	DUPLEX RECEPTACLE 20AMP, 125VOLT CONNECTED TO CIRCUIT #3, NORMAL POWER
⊜	DUPLEX RECEPTACLE MOUNTED AT COUNTER HEIGHT
⊜	QUADRAPLEX RECEPTACLE
USB	USB - DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS
TP	TAMPERPROOF DUPLEX RECEPTACLE
⊜	POWER RECEPTACLE AS NOTED ON PLAN
⊜	DUPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT
⊜	EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.
⊜	QUADRAPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT
⊜	EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.
⊜	RETRACTABLE QUAD OUTLET FROM CEILING MOUNTED JUNCTION BOX
⊜	SINGLE POLE, 20 AMP, TOGGLE SWITCH CONTROLLING LIGHTS
⊜	THREE WAY SWITCH (20 AMP)
⊜	FOUR WAY SWITCH (20 AMP)
⊜	DIMMER SWITCH
⊜	EMERGENCY SHUT-OFF SWITCH
⊜	MANUAL MOTOR STARTER (THERMAL OVERLOAD SWITCH)
⊜	TOGGLE SWITCH WITH PILOT LIGHT (20 AMP)
⊜	KEYED TOGGLE SWITCH (20 AMP)
⊜	LOW VOLTAGE SWITCH, "X" DENOTES THE NUMBER LV OF ZONE CONTROL BUTTONS ON THE SWITCH)
⊜	DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR (1) DENOTES SINGLE, (2) DENOTES DOUBLE POLE. a LOWER CASE LETTER INDICATES SWITCH CONTROLLING
⊜	DIMMABLE OCCUPANCY SENSOR
⊜	CEILING MTD OCCUPANCY SENSOR
⊜	WIRELESS SYSTEM ANTENNA
⊜	TELEVISION OUTLET WITH 3/4" CONDUIT WITH PULL STRING STUBBED UP TO CEILING SPACE
⊜	SEMI-FLUSH WALL MOUNTED, 120 VOLT, 3 WIRE SYNCHRONOUS, 12/24 HOUR ANALOG FACED CLOCK - INTERCONNECT TO THE EARREST RECEPTACLE CIRCUIT
⊜	FLUSH POKE-THRU FLOOR WITH DUPLEX RECEPTACLE, TELEPHONE/DATA OUTLETS AND SERVICE FITTING, AS INDICATED
⊜	ISOLATED GROUND
⊜	GROUND FAULT CIRCUIT INTERRUPTER

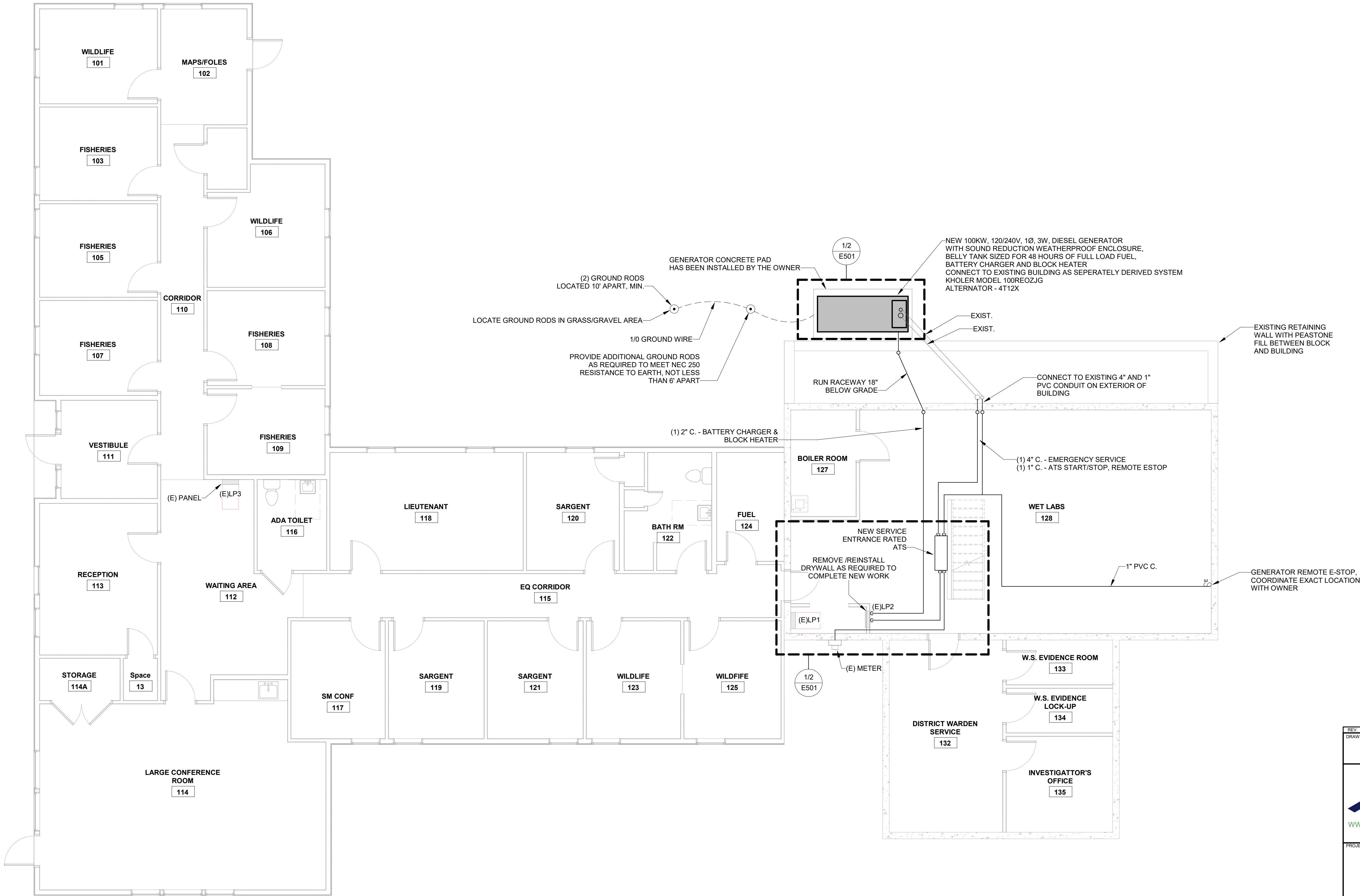
CIRCUITRY, RACEWAYS AND FEEDERS LEGEND

LP2A#1,3,5	HOMERUN TO PANEL "LP2A", CIRCUIT #1,3,5 (VIA 20A-1P C/B'S). TICKS INDICATE QUANTITY OF #12AWG. (CU.) CONDUCTORS. GROUNDING CONDUCTORS ARE NOT INDICATED IN TICKS. PROVIDE GROUNDING CONDUCTOR IN ACCORDANCE WITH SPECIFICATIONS.
①	FEEDER SIZE TAG SYMBOL. REFER TO "LEGEND OF FEEDER SIZES".
—○—	CIRCUITRY TURNING UP
—●—	CIRCUITRY TURNING DOWN
③ ⑦	1 3/4"x4 3/4" SECTION SURFACE METAL RACEWAY WITH FULL SIZE DEVICES AS INDICATED "....." ON CENTER.
	CABLE TRAY


GENERAL ELECTRICAL NOTES


- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NFPA 70, NATIONAL ELECTRICAL CODE (NEC), OSHA REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF THE PERTINENT FEDERAL, STATE, COUNTY, AND CITY AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE, IES AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS THAT ARE U.L. LISTED AND LABELED.
 - PROVIDE ALL NECESSARY ACCESSORIES REQUIRED TO MEET THE INTENT OF THE CONTRACT DRAWINGS.
 - ALL GENERAL NOTES, SYMBOL LISTS, ABBREVIATIONS AND DETAILS ARE TO BE CONSIDERED APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT.
 - WHERE A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL PREVAIL. CONTACT THE ENGINEER FOR CLARIFICATION WHEN SUCH A SITUATION OCCURS.
 - WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
 - ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL/CIVIL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT AND DEVICES, AND FURNITURE REQUIREMENTS, PRIOR TO ROUGHING IN FOR SAME.
 - GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS; PAY ALL GOVERNMENT AND STATE SALES TAXES AND FEES WHERE APPLICABLE, AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR EXTENSIONS IN CONNECTION WITH THE PROJECT SCOPE OF WORK. FILE ALL NECESSARY DRAWINGS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AND STATE DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTIONS FOR PROJECT SCOPE OF WORK AND DELIVER A COPY TO THE ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE PROJECT SCOPE OF WORK.
 - COOPERATE FULLY WITH SEPARATE CONTRACTORS SO WORK ON THOSE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT. COORDINATE THE WORK OF THIS CONTRACT WITH WORK PERFORMED UNDER SEPARATE CONTRACTS.
 - EACH CONTRACTOR SHALL COORDINATE ITS CONSTRUCTION OPERATIONS WITH THOSE OF OTHER CONTRACTORS AND ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. EACH CONTRACTOR SHALL COORDINATE ITS OPERATIONS WITH OPERATIONS INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION. SCHEDULE CONSTRUCTION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION. COORDINATE INSTALLATION OF DIFFERENT COMPONENTS WITH OTHER CONTRACTORS TO ENSURE MAXIMUM PERFORMANCE AND ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.
 - IF COMPLIANCE WITH TWO OR MORE STANDARDS OR DIRECTIVES IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT/ENGINEER FOR A DECISION BEFORE PROCEEDING.
 - THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
 - DELIVER, STORE, AND HANDLE PRODUCTS USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT. COMPLY WITH MANUFACTURERS WRITTEN INSTRUCTIONS AND GENERALLY ACCEPTED CONSTRUCTION PRACTICE.
 - WARRANTY EQUIPMENT AND INSTALLATIONS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION OF PROJECT.
 - EACH CONTRACTOR SHALL ASSIGN REPRESENTATIVES WITH EXPERTISE AND AUTHORITY TO ACT ON ITS BEHALF AND SHALL SCHEDULE THEM TO PARTICIPATE IN AND PERFORM COMMISSIONING PROCESS ACTIVITIES FOR ALL NEW EQUIPMENT AND SYSTEMS.
 - PREPARE PROJECT SPECIFIC INFORMATION TO BE SUBMITTED AS SHOP DRAWINGS FOR PROJECT. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL EQUIPMENT AND MATERIALS TO BE USED ON PROJECT. SUBMITTALS SHALL BE DRAWN ACCURATELY AND TO SCALE. DO NOT BASE SHOP DRAWINGS ON REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR STANDARD PRINTED DATA. SUBMIT SHOP DRAWINGS IN QUANTITIES AS REQUIRED BY ARCHITECT.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AND CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING WORK, INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF UTILITIES, MECHANICAL AND ELECTRICAL SYSTEMS, AND OTHER CONSTRUCTION AFFECTING THE WORK. ADVISE ARCHITECT OF CONFLICTS OR DEFICIENCIES PRIOR TO STARTING WORK.
 - TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK. VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN DIAGRAMMATICALLY ON DRAWINGS. IMMEDIATELY ON DISCOVERY OF THE NEED FOR CLARIFICATION OF THE CONTRACT DOCUMENTS, SUBMIT A REQUEST FOR INFORMATION TO ENGINEER. INCLUDE A DETAILED DESCRIPTION OF PROBLEM ENCOUNTERED, TOGETHER WITH RECOMMENDATIONS FOR CHANGING THE CONTRACT DOCUMENTS.
 - COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLING PRODUCTS IN APPLICATIONS INDICATED.
 - CONDUCT CONSTRUCTION OPERATIONS SO NO PART OF THE WORK IS SUBJECTED TO DAMAGING OPERATIONS OR LOADING IN EXCESS OF THAT EXPECTED DURING NORMAL CONDITIONS OF OCCUPANCY.
 - KEEP INSTALLED WORK CLEAN. CLEAN INSTALLED SURFACES ACCORDING TO WRITTEN INSTRUCTIONS OF MANUFACTURER OR FABRICATOR OF PRODUCT INSTALLED. USING ONLY CLEANING MATERIALS SPECIFICALLY RECOMMENDED. DO NOT SPECIFIC CLEANING MATERIALS ARE NOT RECOMMENDED. USE CLEANING MATERIALS THAT ARE NOT HAZARDOUS TO HEALTH OR PROPERTY AND THAT WILL NOT DAMAGE EXPOSED SURFACES.
 - DURING HANDLING AND INSTALLATION, CLEAN AND PROTECT CONSTRUCTION IN PROGRESS AND ADJOINING MATERIALS ALREADY IN PLACE. APPLY PROTECTIVE COVERING WHERE REQUIRED TO ENSURE PROTECTION FROM DAMAGE OR DETERIORATION AT SUBSTANTIAL COMPLETION.
 - CLEAN AND PROVIDE MAINTENANCE ON COMPLETED CONSTRUCTION AS FREQUENTLY AS NECESSARY THROUGH THE REMAINDER OF THE CONSTRUCTION PERIOD. ADJUST AND LUBRICATE OPERABLE COMPONENTS TO ENSURE OPERABILITY WITHOUT DAMAGING EFFECTS.
 - START EQUIPMENT AND OPERATING COMPONENTS TO CONFIRM PROPER OPERATION. REMOVE MALFUNCTIONING UNITS, REPLACE WITH NEW UNITS, AND RETEST. ADJUST OPERATING COMPONENTS FOR PROPER OPERATION WITHOUT BINDING. ADJUST EQUIPMENT FOR PROPER OPERATION. TEST EACH PIECE OF EQUIPMENT TO VERIFY PROPER OPERATION. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
 - PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE INSTALLED WORK IS WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.
 - THE COST OF CORRECTIVE WORK SHALL BE INCLUDED UNDER THE CONTRACT.
 - SEAL CONDUIT AND CABLE PENETRATIONS WITH APPROVED FIRESTOP MATERIALS. REFER TO DIVISION 7 SECTION "THROUGH-PENETRATION FIRESTOP SYSTEMS" FOR MATERIALS.
 - INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE INDICATED. INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, UNLESS OTHERWISE INDICATED. INSTALL ELECTRICAL EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS.
 - ELECTRICAL AND SYSTEMS CONTRACTOR SHALL COORDINATE HIS WORK WITH GENERAL, HVAC, FIRE PROTECTION PLUMBING CONTRACTORS AND VENDORS AND SHALL MAKE NECESSARY ADJUSTMENTS OR CHANGES TO FACILITATE INSTALLATION OF EQUIPMENT IN SPACES AVAILABLE.
 - ACCESS PANELS SHALL BE PROVIDED BY ELECTRICAL AND SYSTEMS CONTRACTOR FOR ALL ITEMS REQUIRING INSPECTION OR MAINTENANCE OR AS REQUIRED BY CODE. ACCESS PANELS SHALL BE OF SUFFICIENT SIZE AND LOCATED SO THAT THE CONCEALED ITEMS MAY BE SERVICED AND MAINTAINED OR COMPLETELY REMOVED AND REPLACED. MINIMUM SIZE OF PANEL SHALL BE 12" BY 12". PANELS SHALL BE COMPLETE WITH IDENTIFYING LABELS.
 - ELECTRICAL CONTRACTOR SHALL KEEP AN UP TO DATE SET OF "AS-BUILT" RECORD DRAWINGS ON SITE AT ALL TIMES. AT PROJECT COMPLETION PROVIDE THE OWNER, ARCHITECT AND THE ENGINEER WITH A COMPLETE SET OF CONTRACT DRAWINGS WITH ALL FIELD CHANGES IN CAD FORMAT ALONG WITH A PDF SET AND A FULL SIZE PRINT.
 - ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUCTORS, CABLES AND ETC. SHALL BE U.L. LABELED AND LISTED FOR THE APPLICATION IN WHICH IT IS BEING USED.
 - CONTRACTOR SHALL PREPARE OPERATION AND MAINTENANCE MANUALS FOR BUILDING OWNER. OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE SHOP DRAWING SUBMITTALS AND OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT AND SYSTEM INSTALLED FOR PROJECT. OWNER SHALL BE PROVIDED WITH 3 COPIES OF OPERATION AND MAINTENANCE MANUALS.
- ### STANDARDS
- LATEST ADOPTED MAINE UNIFIED BUILDING CODE "MUBEC"
 - NATIONAL ELECTRICAL CODE, LATEST APPROVED EDITION.
 - ANY AND ALL FEDERAL, STATE AND/OR LOCAL CODES, APPLICABLE ORDINANCES AND REGULATIONS.
 - LATEST APPROVED STANDARDS OF IEEE, ANSI, NEMA AND NFPA.
 - LOCAL UTILITY AND TELEPHONE COMPANY REGULATIONS.
 - BICSI TDMM, LATEST EDITION.
 - ALL EQUIPMENT SHALL BE NEW AND U.L. LISTED WHERE LISTING IS AVAILABLE.
- ### SUBSTITUTIONS
- WHERE EQUIPMENT AND MATERIALS ARE INDICATED "OR EQUIVALENT" SUBSTITUTION OF ITEMS EQUAL IF QUALITY, PERFORMANCE, RATING AND APPEARANCE WILL BE PERMITTED UPON SPECIFIC REVIEW IN WRITING BY THE ENGINEERS BEFORE INSTALLATION. SPECIFIC CRITERIA FOR SUBSTITUTION OF CERTAIN EQUIPMENT ARE DEFINED ELSEWHERE.
 - IN ALL CASES, THE RIGHT IS RESERVED TO REQUIRE ADEQUATE PROOF OF THE EQUALITY AND ACCEPTABILITY OF THE SUBSTITUTE BEFORE PERMITTING ITS USE. THE CONTRACTOR SHALL ASSUME THE COST AND THE ENTIRE RESPONSIBILITY FOR ANY CHANGES IN ANY PHASES OF BUILDING CONSTRUCTION, AS SHOWN ON THE CONTRACT DRAWINGS OR REQUIRED BY THE SPECIFICATIONS, WHICH MAY BE OCCASIONED BY REVIEW OF MATERIALS AND EQUIPMENT OTHER THAN THAT SPECIFIED.

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
ISSUED FOR BIDDING				
 ENGINEERING ENVIRONMENTAL SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
PROJECT				
MAINE INLAND FISHERIES & WILDLIFE 63 STATION ST. - ASHLAND, MAINE				
TITLE				
ELECTRICAL ABBREVIATIONS, NOTES & DETAILS				
DATE 2025.03.07		SCALE AS INDICATED		
DRAWN BY JNB	DESIGNED BY JNB/JMM	CHECKED BY JMM		
PROJECT No. 10377.018				
DRAWING No. E001		REV		



1 ELECTRICAL POWER FIRST FLOOR PLAN
E101 SCALE: 3/16" = 1'-0"

REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
ISSUED FOR BIDDING				
 HALEY WARD ENGINEERING ENVIRONMENTAL SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
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MAINE INLAND FISHERIES & WILDLIFE 63 STATION ST. - ASHLAND, MAINE				
TITLE				
ELECTRICAL POWER FIRST FLOOR PLAN				
DATE 2025.03.07		SCALE 3/16" = 1'-0"		
DRAWN BY JNB	DESIGNED BY JNB/JMM	CHECKED BY JMM		
PROJECT No. 10377.018		REV.		
DRAWING NO. E101				



STATE OF MAINE
JARED MERY
No. 11679
LICENSED PROFESSIONAL ENGINEER
02/06/2025

D

C

B

A

Branch Panel: (E)LP2

Location: WET LABS 128

Supply From:

Mounting: SURFACE

Enclosure: NEMA 1

Volts: 120/240 Single

Phases: 1

Wires: 3

A.I.C. Rating: 65 kA

Mains Type: MCB

Mains Rating: 400 A

MCB Rating: 400 A

Notes:

EXISTING PANEL. PROVIDE NEW CIRCUITS AS NOTED BELOW.

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	*LP1*	20 A	2	0.0 kW	0.0 kW	0.0 kW	0.0 kW	1	20 A	*BOILER #2 LEFT*	2
3								1	20 A	*SPARE*	4
5	*SPARE*	40 A	2	0.0 kW	0.0 kW	0.0 kW	0.0 kW	1	20 A	*SPARE*	6
7								1	20 A	*SPARE*	8
9	GENERATOR BATTERY CHARGER	20 A	1	0.5 kW	0.0 kW			2	30 A	*AIR HANDLER*	10
11	GENERATOR BLOCK HEATER	20 A	1			0.5 kW	0.0 kW				12
13	*SPARE*	20 A	1	0.0 kW	0.0 kW			2	20 A	*240V GROUNDS FOR CIRCULATOR PUMP*	14
15	*OU-4*	20 A	2			3.6 kW	0.0 kW				16
17				3.6 kW	3.6 kW			2	20 A	*OU-5*	18
19	*OU-6*	20 A	2			3.1 kW	3.6 kW				20
21				3.1 kW	2.3 kW			2	20 A	*WATER HEATER WH-1*	22
23	*EXIST. BLDG VRF INDOOR UNITS*	20 A	2			0.3 kW	2.3 kW				24
25				0.3 kW	0.9 kW			1	20 A	*ELEC. HEAT RMS 203A & 203B*	26
27	*OU-3*	20 A	2			3.1 kW	0.0 kW	1	15 A	*SPARE*	28
29				3.1 kW	0.0 kW			1	15 A	*SPARE*	30
31	*LP3*	150 A	2			0.0 kW	4.0 kW	2	20 A	*OU-2*	32
33				0.0 kW	4.0 kW						34
Total Load:				21.3 kW		20.4 kW					
Total Amps:				178 A		170 A					

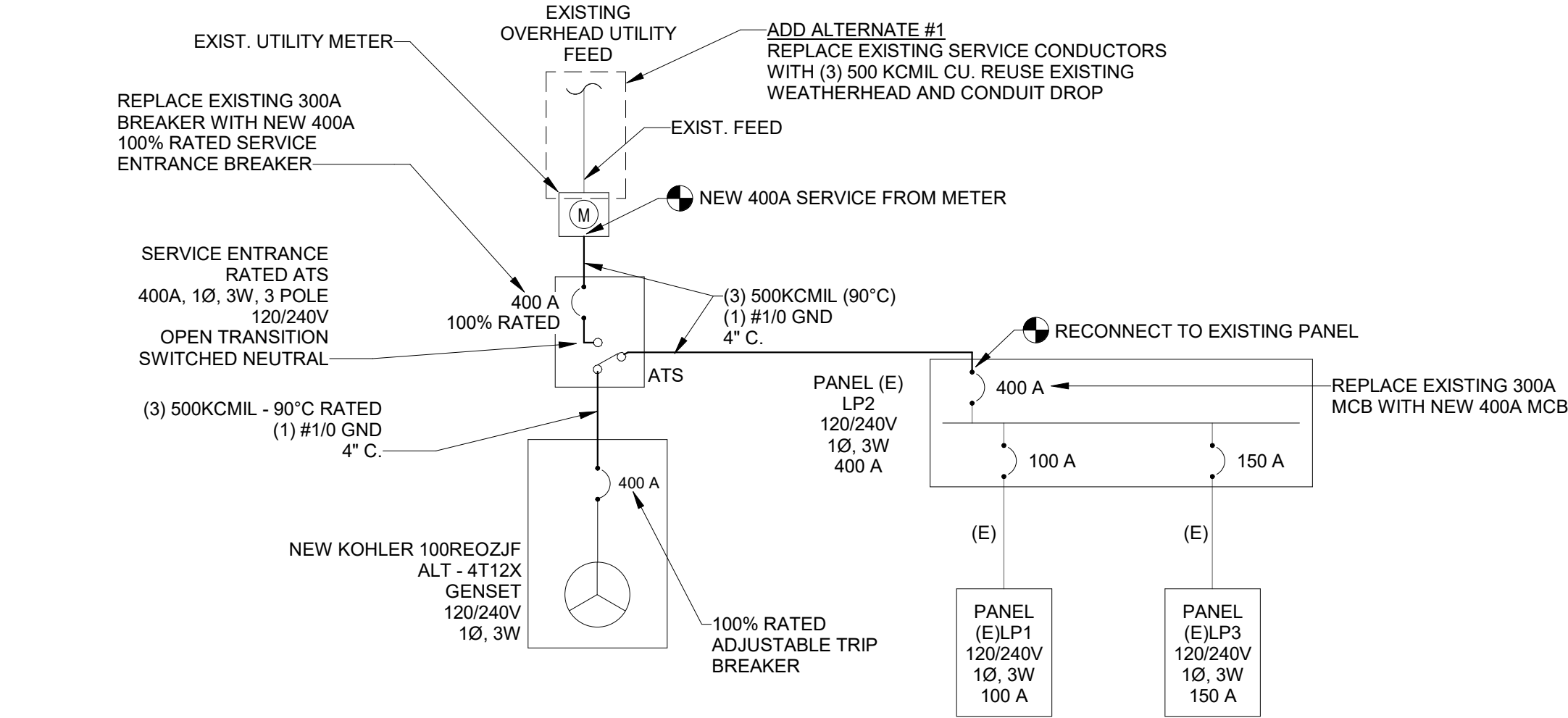
Legend:

BREAKER NAME INDICATES EXISTING

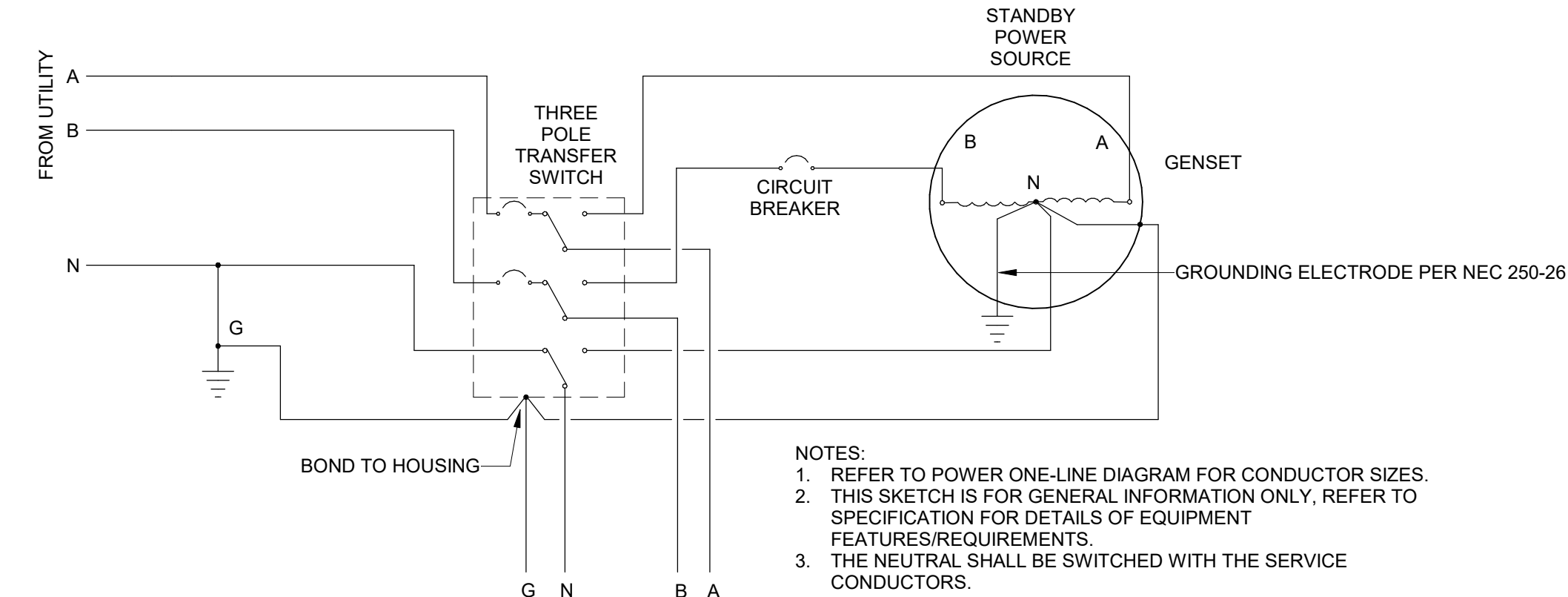
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	39.2 kW	100.00%	39.2 kW		
Motor	0.6 kW	102.78%	0.6 kW	Total Conn. Load:	41.7 kW
Other	0.9 kW	100.00%	0.9 kW	Total Est. Demand:	41.8 kW
Spare	1.0 kW	100.00%	1.0 kW	Total Conn.:	174 A
				Total Est. Demand:	174 A

Notes:


NEW CIRCUITS



2 ELECTRICAL ONE LINE DIAGRAM
E501 / NTS



1 SEPERATELY DERIVED THREE-POLE ATS ARRANGEMENT
E501 / NTS

REV. 1	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
ISSUED FOR BIDDING				
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PROJECT				
MAINE INLAND FISHERIES & WILDLIFE 63 STATION ST. - ASHLAND, MAINE				
TITLE				
ELECTRICAL SCHEDULES & DETAILS				
DATE		2025.03.07		SCALE
DRAWN BY		JNB		As indicated
DESIGNED BY		JNB/JMM		CHECKED BY
PROJECT No.		10377.018		JMM
DRAWING NO.		E501		REV.