

# MANCHESTER-BY-THE-SEA PUBLIC LIBRARY GENERATOR PROJECT

Town of Manchester-by-the-Sea  
10 Central Street  
Manchester-by-the-Sea, MA 01944

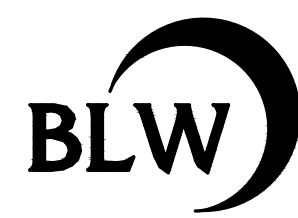


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Client:

TOWN OF  
MANCHESTER-BY-THE-SEA  
10 CENTRAL ST  
MANCHESTER-BY-THE-SEA, MA 01944

Submission

Bid Documents 10/23/2024

Revision:

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GENERATOR PROJECT  
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MANCHESTER-BY-THE-SEA, MA 01944

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Drawn By: RG

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Title:

**TITLE SHEET**

Drawing No.:

TS

GENERAL NOTES	
1.	LEGEND IS INTENDED TO SHOW DEPICTION OF SYMBOLS. IT DOES NOT IMPLY INTENT OF SCOPE. NOT ALL SYMBOLS SHOWN ON THIS LEGEND WILL BE USED ON THE DWGS.
2.	REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES.
3.	PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT TO MAKE INSTALLATION COMPLETE IN EVERY DETAIL UNDER THIS CONTRACT WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
4.	ALL EQUIPMENT AND WIRING ON DWGS IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY SUPPORTED.

POWER NOTES	
1.	ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY SUPPORTED.
2.	ELECTRICAL CONTRACTOR SHALL CONFIRM ALL NEMA CONFIGURATIONS AND REQUIRED ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT SPECIFICATIONS PRIOR TO ROUGH-IN.

EXISTING EQUIPMENT DESIGNATIONS	
X	EXISTING TO BE REMOVED, REMOVE ALL ASSOCIATE CONDUIT AND CONDUCTORS
XM	EXISTING TO REMAIN
XN	EXISTING EQUIPMENT TO BE REPLACED WITH NEW, CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT
XR	EXISTING EQUIPMENT TO BE RELOCATED, JUNCTION AND EXTEND EXISTING CONDUIT AND CONDUCTORS
XC	NEW EQUIPMENT TO BE CONNECTED TO NEAREST AVAILABLE BRANCH CIRCUIT, PROVIDE NEW BRANCH CIRCUITRY FROM NEAREST EXISTING DEVICE (TO REMAIN) TO NEW DEVICE AS REQUIRED
XL	NEW LOCATION OF EXISTING EQUIPMENT, JUNCTION AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED

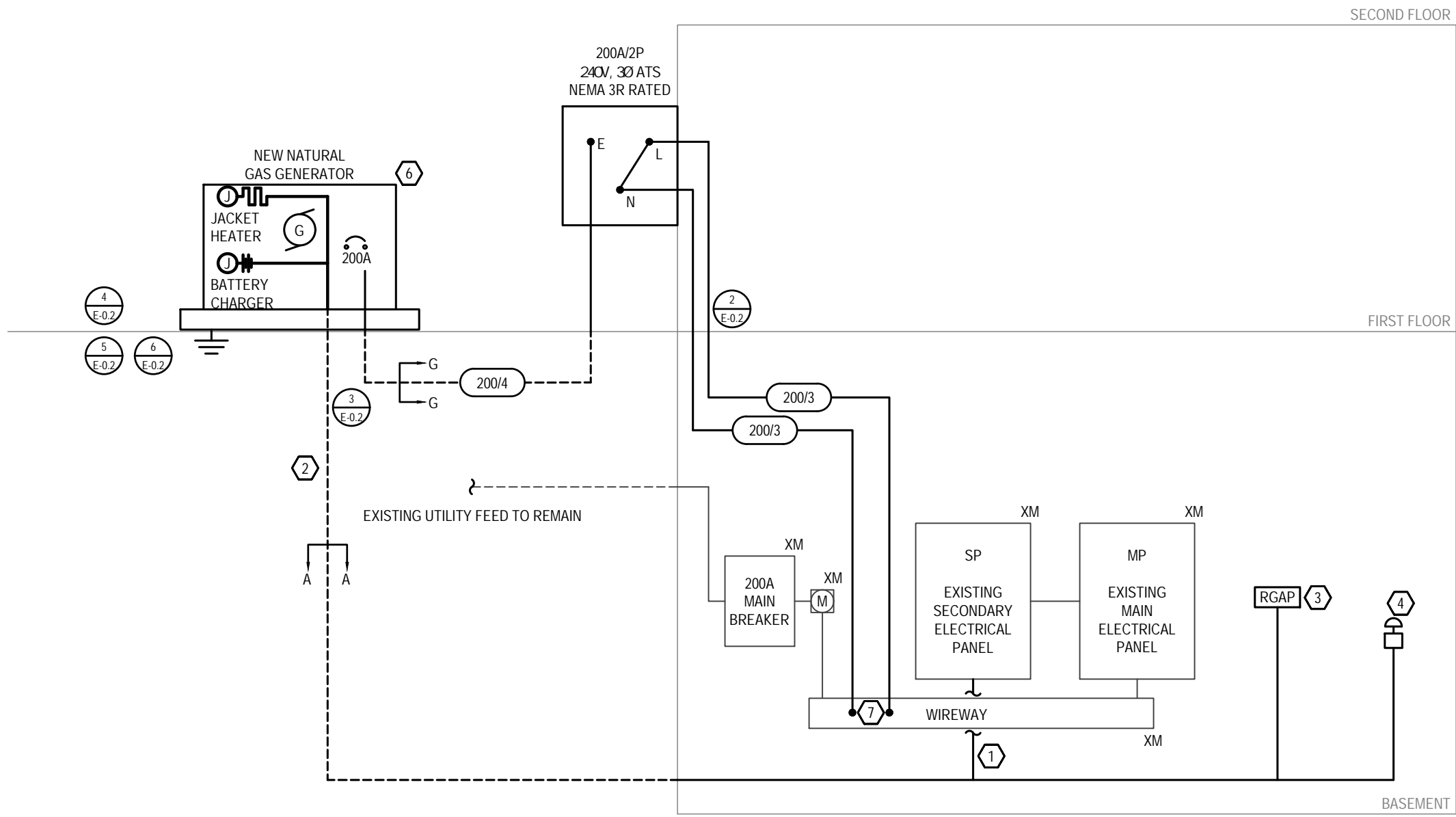
ABBREVIATIONS	
A/AMP	AMPERE
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CENTERLINE
CU	COPPER
DC	DIRECT CURRENT
DE	DUAL ELEMENT
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EMH	ELECTRICAL MANHOLE
EMT	ELECTRIC METALLIC CONDUIT
EWIC	ELECTRIC WATER COOLER
G/END	GROUND
GC	GENERAL CONTRACTOR
GE	GROUND-FAULT PROTECTION FOR EQUIPMENT (GFPE CB)
GP	GROUND-FAULT PROTECTION FOR PERSONNEL (GFCI CB)
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTER
HP	HORSEPOWER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MEC	MASSACHUSETTS ELECTRICAL CODE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
No. #	NUMBER
NS	NON-SYSTEM
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PWR	POWER
RGS	RIGID STEEL CONDUIT
RMS	ROOT MEAN SQUARE VALUE
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FOOT
SN	SOLID NEUTRAL
ST	SHUNT TRIP CIRCUIT BREAKER
SWBD	SWITCHBOARD
TYP	TYPICAL
V	VOLTS
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF

ANNOTATIONS	
	MECHANICAL EQUIPMENT TAG, REFER TO MECHANICAL EQUIPMENT COORDINATION SCHEDULE FOR ELECTRICAL REQUIREMENTS
	FEEDER TAG, NUMBER INDICATES AMPERE RATING OF FEEDER AND NUMBER OF WIRES, REFER TO FEEDER SCHEDULE FOR ADDITIONAL INFORMATION. (2) 5" - EMPTY CONDUIT ONLY SHALL BE PROVIDED WITH PULL STRING
	EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION
	SHEET NOTE TAG *F* INDICATES CALL OUT TO CORRESPONDING SHEET NOTE
	REVISION TAG
	DETAIL CALLOUT *F* INDICATES THE DETAIL REFERENCE NUMBER *E101* INDICATES THE DRAWING ON WHICH THE DETAIL CAN BE FOUND
	SECTION "A-A", REFER TO DUCTBANK OR CONDUIT SECTION DETAIL

SITE SYMBOLS	
	UNDERGROUND CONDUIT OR DUCT BANK, REFER TO SITE DETAILS FOR ADDITIONAL INFORMATION
	ELECTRIC MANHOLE (MH) / HANDHOLE (HH), REFER TO DETAIL
MOTORS AND CONTROLS	
	MOTOR, NUMERAL INDICATES HORSEPOWER
	MANUAL MOTOR STARTER, RATED 20A, 250V, COORDINATE MOUNTING HEIGHT IN FIELD, MOUNTING HEIGHT SHALL NOT EXCEED 6'-7" AFF
	DISCONNECT SWITCH RATED 30A, 3-POLE, IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED *3R* INDICATES NEMA TYPE 3R ENCLOSURE *2P* INDICATES 2-POLE, SINGLE PHASE DISCONNECT *60A* INDICATES 60A SWITCH
	FUSED DISCONNECT SWITCH RATED 30A, 3-POLE, IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED *3R* INDICATES NEMA TYPE 3R ENCLOSURE *2P* INDICATES 2-POLE, SINGLE PHASE DISCONNECT *60A* INDICATES 60A FUSE SIZE *40AT* INDICATES 40A TRIP RATING
	ENCLOSED CIRCUIT BREAKER IN NEMA 1 TYPE ENCLOSURE, UNLESS OTHERWISE NOTED *30A* INDICATES BREAKER RATING *3R* INDICATES NEMA TYPE 3R ENCLOSURE *ST* INDICATES SHUNT-TRIP
	CONTROLS *CP* INDICATES CONTROL PANEL *VFD* INDICATES VARIABLE FREQUENCY DRIVE *RGAP* INDICATES REMOTE GENERATOR ANNUNCIATOR PANEL
BRANCH CIRCUIT AND FEEDER SYMBOLS	
	HOMERUN TO PANELBOARD "PP1"; CIRCUIT NUMBER "2" REFER TO PANEL SCHEDULE FOR BREAKER SIZE AND NUMBER OF POLES CONCEALED UNLESS OTHERWISE NOTED NUMBER OF ARROWS INDICATES NUMBER OF INDIVIDUAL HOMERUNS "2", "4", AND "6" UNLESS NOTED OTHERWISE, WIRING FOR EACH CIRCUIT SHALL BE: 20A/1P - 2#12, #12G-2#2C 20A/2P - 3#12, #12G-2#2C 20A/3P - 4#12, #12G-2#2C WIRING FOR MULTIPLE HOMERUNS MAY BE COMBINED IN CONDUIT IN ACCORDANCE WITH NEC REQUIREMENTS HOMERUN FEEDER / BRANCH CIRCUIT CALLOUT: INDICATES (3) #1 AWG (PHASE), (1) #1 AWG (NEUTRAL), (1) #6 GROUND IN A 1 1/2" CONDUIT
	BRANCH CIRCUIT OR FEEDER CONCEALED UNLESS OTHERWISE NOTED. BRANCH CIRCUIT DIAGONAL LINES INDICATE NUMBER OF CONDUCTORS. GROUND WIRE(S) NOT INDICATED. MINIMUM SIZE CONDUCTOR #12 AWG AND 3/4" CONDUIT, UNLESS OTHERWISE NOTED.
	FLEXIBLE CONNECTION TO MOTOR OR EQUIPMENT
MISCELLANEOUS	
	UTILITY METER
	MUSHROOM HEAD PUSH BUTTON SWITCH
	PUSH BUTTON SWITCH
PANELBOARD AND TERMINAL CABINET	
	120/208V PANEL, SURFACE MOUNTED, REFER TO PANEL SCHEDULES
	120/208V PANEL, RECESSED MOUNTED, REFER TO PANEL SCHEDULES

LEGEND OF FEEDER SIZES-COPPER CONDUCTORS (75°C)					
FEEDER SYMBOL	CONDUCTORS (3Ø, 3W) WITH GROUND	RACEWAY SIZE	CONDUCTORS (3Ø, 4W) WITH GROUND	RACEWAY SIZE	NOMINAL AMPERE RATING
60/3	3#6 & 1#10 GND	3/4"C			60
60/4			4#6 & 1#10 GND	1"C	
100/3	3#6 & 1#8 GND	1 1/4"C			
100/4			4#3 & 1#8 GND	1 1/4"C	100
125/3	3#1 & 1#6 GND	1 1/4"C			125
125/4			4#1 & 1#6 GND	1 1/4"C	
150/3	3#1/0 & 1#6 GND	2"C			
150/4			4#1/0 & 1#6 GND	2"C	150
200/3	3#3/0 & 1#6 GND	2"C			200
200/4			4#3/0 & 1#6 GND	2"C	
225/3	3#4/0 & 1#4 GND	2"C			
225/4			4#4/0 & 1#4 GND	2 1/4"C	225
250/3	3-250KCMIL & 1#4 GND	2 1/4"C			250
250/4			4-250KCMIL & 1#4 GND	2 1/4"C	
300/3	3-350KCMIL & 1#4 GND	3"C			
300/4			4-350KCMIL & 1#4 GND	3"C	300
400/3	3-600KCMIL & 1#3 GND	3 1/2"C			400
400/4			4-600KCMIL & 1#3 GND	4"C	
500/3	6-250KCMIL & 2#2 GND	(2) 2 1/4"C			
500/4			8-250KCMIL & 2#2 GND	(2) 2 1/4"C	500
600/3	6-350KCMIL & 2#1 GND	(2) 3"C			600
600/4			8-350KCMIL & 2#1 GND	(2) 3"C	
800/3	6-600KCMIL & 2#1/0 GND	(2) 4"C			
800/4			8-600KCMIL & 2#1/0 GND	(2) 4"C	800
1000/3	9-400KCMIL & 3#2/0 GND	(3) 3"C			1000
1000/4			12-400KCMIL & 3#2/0 GND	(3) 3"C	
1200/3	9-600KCMIL & 3#3/0 GND	(3) 4"C			
1200/4			12-600KCMIL & 3#3/0 GND	(3) 4"C	1200
1600/3	12-600KCMIL & 4#4/0 GND	(4) 4"C			1600
1600/4			16-600KCMIL & 4#4/0 GND	(4) 4"C	
2000/3	15-600KCMIL & 5-250KCMIL GND	(5) 4"C			
2000/4			20-600KCMIL & 5-250KCMIL GND	(5) 4"C	2000
2500/3	18-600KCMIL & 6-350KCMIL GND	(6) 4"C			2500
2500/4			24-600KCMIL & 6-350KCMIL GND	(6) 4"C	
3000/3	24-600KCMIL & 8-400KCMIL GND	(8) 4"C			
3000/4			32-600KCMIL & 8-400KCMIL GND	(8) 4"C	3000
3500/3	24-700KCMIL & 8-500KCMIL GND	(8) 4"C			3500
3500/4			32-700KCMIL & 8-500KCMIL GND	(8) 4"C	
4000/3	24-750KCMIL & 8-500KCMIL GND	(8) 4"C			
4000/4			32-750KCMIL & 8-500KCMIL GND	(8) 4"C	4000 (NOTE 3)

- NOTES:
- ALL FEEDERS GREATER THAN 150 FEET IN LENGTH SHALL INCREASE TO THE NEXT AVAILABLE FEEDER TO ACCOMMODATE FOR VOLTAGE DROP.
  - SERVICE FEEDERS FROM UTILITY TRANSFORMER TO SERVICE ENTRANCE EQUIPMENT SHALL NOT REQUIRE GROUND CONDUCTOR
  - 4000A SERVICE FEEDERS FROM UTILITY TRANSFORMER TO SERVICE ENTRANCE EQUIPMENT SHALL BE 90 DEGREE RATED.



NEW WORK POWER RISER DIAGRAM  
N.T.S.

- NOTES:**
- CONTRACTOR SHALL COORDINATE ALL NECESSARY SHUTDOWNS WITH OWNER AND IF NECESSARY, WITH UTILITY COMPANY
  - PROVIDE APPROPRIATE WIRING PER GENERATOR MANUFACTURER'S RECOMMENDATION AND CIRCUIT TO AVAILABLE BREAKER OR NEW CIRCUIT BREAKER IN SECONDARY ELECTRICAL PANEL FOR GENERATOR JACKET HEATER AND BATTERY CHARGER.
  - SAME CONDUIT MAY BE USED TO CARRY CONDUCTORS FOR GENERATOR JACKET HEATER AND BATTERY CHARGER AS WELL AS EMERGENCY POWER OFF BUTTON AND REMOTE GENERATOR ANNUNCIATOR PANEL. APPROPRIATE CONDUCTORS SHALL BE USED AS SPECIFIED BY EQUIPMENT MANUFACTURERS. ALL CONDUCTOR INSULATION SHALL BE RATED FOR THE HIGHEST VOLTAGE OF THE VARIOUS CIRCUITS.
  - ELECTRICAL CONTRACTOR TO COORDINATE LOCATION OF GENERATOR REMOTE ANNUNCIATOR WITH OWNER'S REPRESENTATIVE AND ENGINEER PRIOR TO ROUGHING IN BRANCH CIRCUITRY
  - GENERATOR REMOTE EMERGENCY POWER OFF (EPO) PUSH BUTTON, COORDINATE EXACT LOCATION NEXT TO EXISTING SWITCHGEAR WITH OWNER'S REPRESENTATIVE. PROVIDE CLEAR LABELING TO INDICATE USE
  - ELECTRICAL CONTRACTOR SHALL CONFIRM EXISTING BRANCH CIRCUITRY, IN FIELD, AND MATCH WIRE SIZE ACCORDINGLY
  - 50 KW / 63KVA, 120/240 VOLT NATURAL GAS GENERATOR WITH WEATHERPROOF, LEVEL 2 SOUND ATTENUATED ENCLOSURE BY GENERAC, MODEL NO. SG650NA, ALTERNATOR MODEL NO. K3080124Y21 OR EQUAL.
  - THE EXISTING 200AMP SERVICE FEEDER SHALL BE TAPPED AND NEW CONDUCTORS PROVIDED TO THE PROPOSED ATS AND CONNECTED TO THE NORMAL-FEEDER LUGS.

PANEL 'MP', 225 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE & GND											
INTERRUPTING CAPACITY: 22,000 AMPS RMS SYM						MAIN: 200A M.C.B.			MOUNTING: SURFACE		
CB TYPE: G - INDICATES GFCI, L - INDICATES BREAKER LOCK, GE - INDICATES GFPE, S - INDICATES SHUNT TRIP, A - INDICATES ARC FAULT											
LOAD DESCRIPTION	CB/TYPE	CIRC NO.	KVA LOAD			CIRC NO.	CB/TYPE	LOAD DESCRIPTION			
			A	B	C						
MAIN		1	0.00			2	--	150	???		
		3		0.00		4	--	20	???		
		5			0.00	6	--	20	???		
AIR HANDLER - ATTIC	20	7	0.00			8	--	20	???		
ATTIC EXHAUST FAN	20	9		0.00		10	--	20	FIRE ALARM		
CLOCK IN REF ROOM - WALL SCONCES	15	11			0.00	12	--	20	NEW DUPLEX REC IN LOUNGE		
ATTIC GFI PLUG	20	13	0.00			14	--	20	NEW DUPLEX REC IN LOUNGE		
BOILER LEAD	20	15		0.00		16	--	20	COMPUTER DESK OUTLETS		
BOILER 2	20	17			0.00	18	--	20	FLOOR OUTLETS		
SYSTEM PUMPS	20	19	0.00			20	--	20	FLOOR OUTLETS		
		21		0.00		22	--	15	STACK LIGHTS		
AIR COMPRESSOR - TRANE YARD	40	23			0.00	24	--	15	STACK LIGHTS		
		25	0.00			26	--	15	LIGHT CONTROL		
AIR COMPRESSOR - #1 YARD	20	27		0.00		28	--	15	LIGHT CONTROL - CHANDALIER		
		29			0.00	30	--	15	LIGHT CONTROL - PADDLE FANS		
AIR COMPRESSOR - #2 YARD	20	31	0.00			32	--	15	LIGHT CONTROL		
		33		0.00		34	--	15	OUTDOOR FRONT AND DOOR		
AIR COMPRESSOR - ROOF/CHILDREN'S ROOM	30	35			0.00	36	--	15	SIGN AND BACK DOOR LIGHT		
		37	0.00			38	--	15	FOYER		
AIR COMPRESSOR - ROOF	20	39		0.00		40	--	15	STACK OUTLETS		
PHASE A	0.00	KVA	TOTAL LOAD 0.00 KVA						NOTES: PROVIDE WITH FEED-THRU LUGS		
PHASE B	0.00	KVA									
PHASE C	0.00	KVA									
SECTION 1											

PANEL 'SP', 225 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE & GND											
INTERRUPTING CAPACITY: 22,000 AMPS RMS SYM						MAIN: 200A M.C.B.			MOUNTING: SURFACE		
CB TYPE: G - INDICATES GFCI, L - INDICATES BREAKER LOCK, GE - INDICATES GFPE, S - INDICATES SHUNT TRIP, A - INDICATES ARC FAULT											
LOAD DESCRIPTION	CB/TYPE	CIRC NO.	KVA LOAD			CIRC NO.	CB/TYPE	LOAD DESCRIPTION			
			A	B	C	A	B	C			
CHILDREN'S RIMBACK OFFICE/BSMINT STAIR	15	1	0.00			0.00			2	--	MAIN
	15	3							4	--	
	15	5		0.00					6	--	20 GENERATOR BATTERY CHARGER
BOILER ROOM LIGHTS	15	7	0.00			0.00			8	--	20 MAIN BATHROOM LIGHTS
CRAWLSPACE LIGHTS	15	9		0.00					10	--	20 READING ROOM PLUGS
MAIN ROOM PLUGS	15	11			0.00			0.00	12	--	20 BAR COMPUTER PLUGS
	15	13	0.00						14	--	20 MAIN DESK LEFT PLUGS
BASEMENT LIGHTS	15	15		0.00					16	--	30 GENERATOR JACKET HEATER
	15	17			0.00			0.00	18	--	30
MAIN PLUGS	15	19	0.00			0.00			20	--	20
2ND FLOOR LIGHTS/CLOCK TOWER LIGHTS	15	21		0.00				0.00	22	--	20 MAIN DESK RIGHT PLUGS
	15	23						0.00	24	--	20
	15	25	0.00			0.00			26	--	
	15	27							28	--	
	15	29		0.00					30	--	60 SUB PANEL
QUAD DATA	20	29			0.00			0.00	30	--	
PHASE A	0.00	KVA	TOTAL LOAD 0.00 KVA						NOTES: PROVIDE WITH FEED-THRU LUGS		
PHASE B	0.00	KVA									
PHASE C	0.00	KVA									
SECTION 1											

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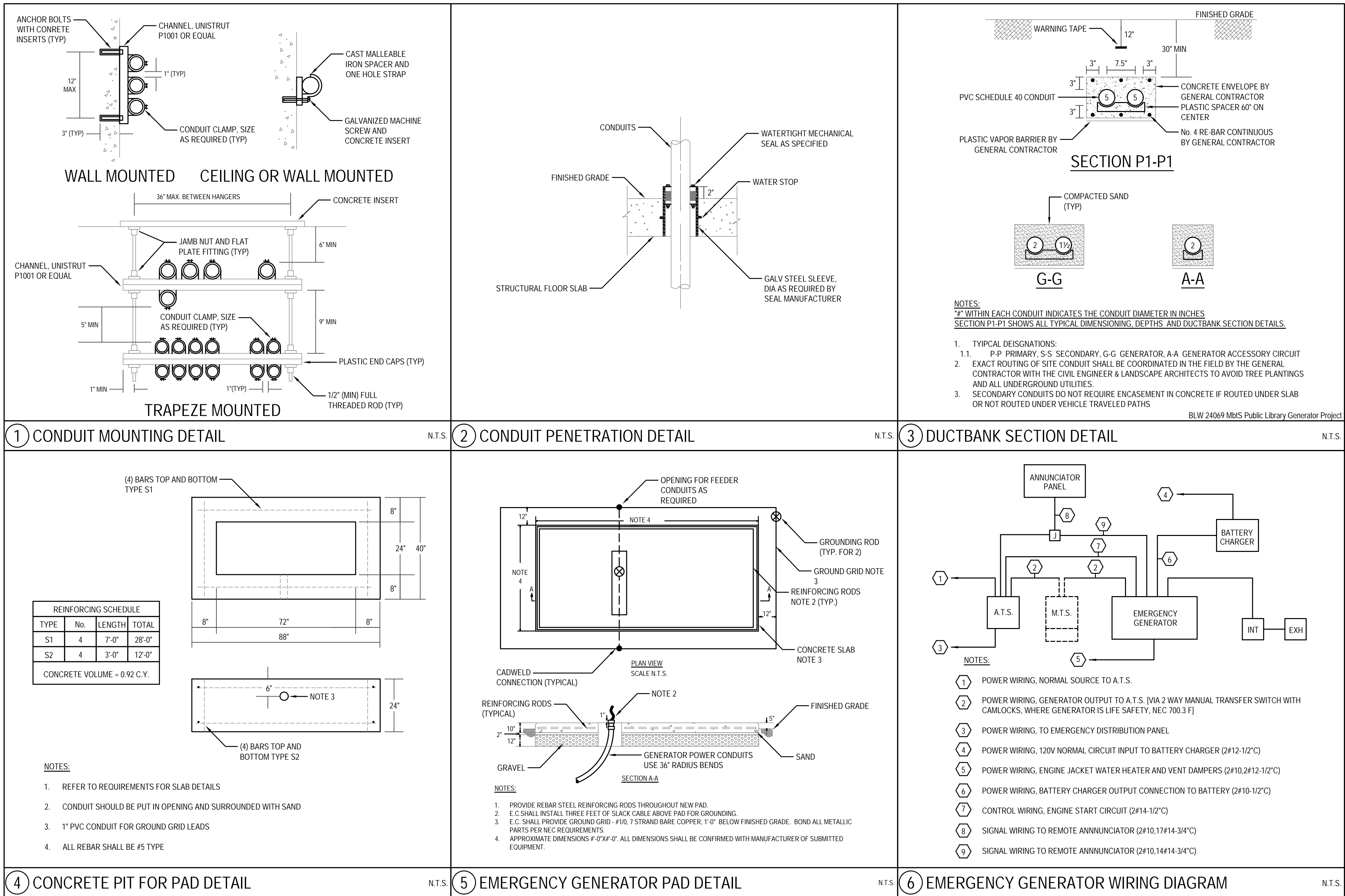
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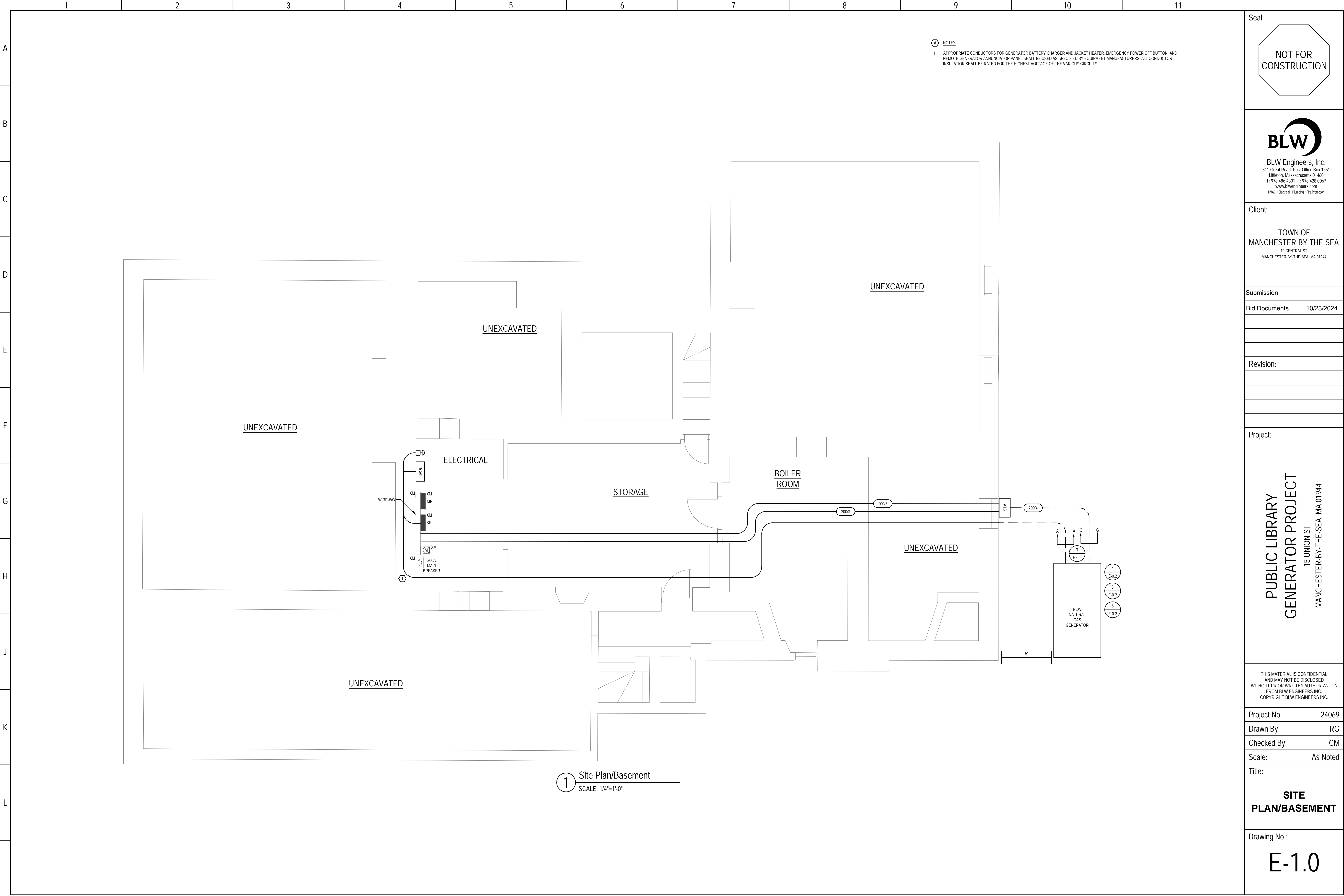
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## DETAILS

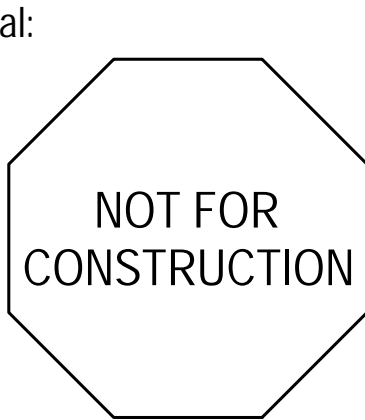
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E-0.2





- NOTES
- APPROPRIATE CONDUCTORS FOR GENERATOR BATTERY CHARGER AND JACKET HEATER, EMERGENCY POWER OFF BUTTON, AND REMOTE GENERATOR ANNUNCIATOR PANEL SHALL BE USED AS SPECIFIED BY EQUIPMENT MANUFACTURERS. ALL CONDUCTOR INSULATION SHALL BE RATED FOR THE HIGHEST VOLTAGE OF THE VARIOUS CIRCUITS.



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