

GENERAL NOTES

- NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE IS HIGHER THAN 44" AFF.
- ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL" UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE #12 AWG AND #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
- CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
- TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
- SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
- ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
- LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
- PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
- OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
- ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.
- PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
- OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2
- PROVIDE AIR VAPOR BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX
- MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.

SYMBOL LEGEND

- RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- H, DS, DW \odot JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
- \odot DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- \oplus QUAD RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- \odot DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF, BOTTOM RECEPTACLE SWITCHED.
- \oplus GROUND FAULT DUPLEX RECEPTACLE, 20A, 125V, TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.
- \oplus REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT 48 INCHES ABOVE FINISHED FLOOR.
- \oplus RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- \oplus DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- ETV CABLE TV JUNCTION BOX "CTV", SIZE AS REQUIRED BY CABLE UTILITY
- TV OUTLET LOCATION, CABLE AND JACKS BY EC
- E SELF CONTAINED EMERGENCY LIGHT W/2 HEADS DUAL-LITE (LED) MODEL LZ651-03L, 65 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT
- E EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL NO OCRD 1203L COLOR BY ARCHITECT
- E EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE LX-U-R-W-E OR APPROVED EQUAL
- S SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- D SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- ∇ TELEPHONE JACK, MOUNT 18" AFF UNLESS NOTED OTHERWISE, RUN ONE CAT 5E CABLE BACK TO TBB.
- EACB FIRE ALARM CONTROL PANEL
- ANN FIRE ALARM ANNUNCIATOR PANEL
- F FIRE ALARM AUDIO/VISUAL MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATING, "MH" DENOTES MINIHORN, "CL" DENOTES CEILING MOUNTED. NO DESIGNATION EQUALS 75cd
- S FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS, "CL" DENOTES CEILING MOUNTED
- S SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- S SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- S SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- S SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE
- S CARBON MONOXIDE DETECTOR

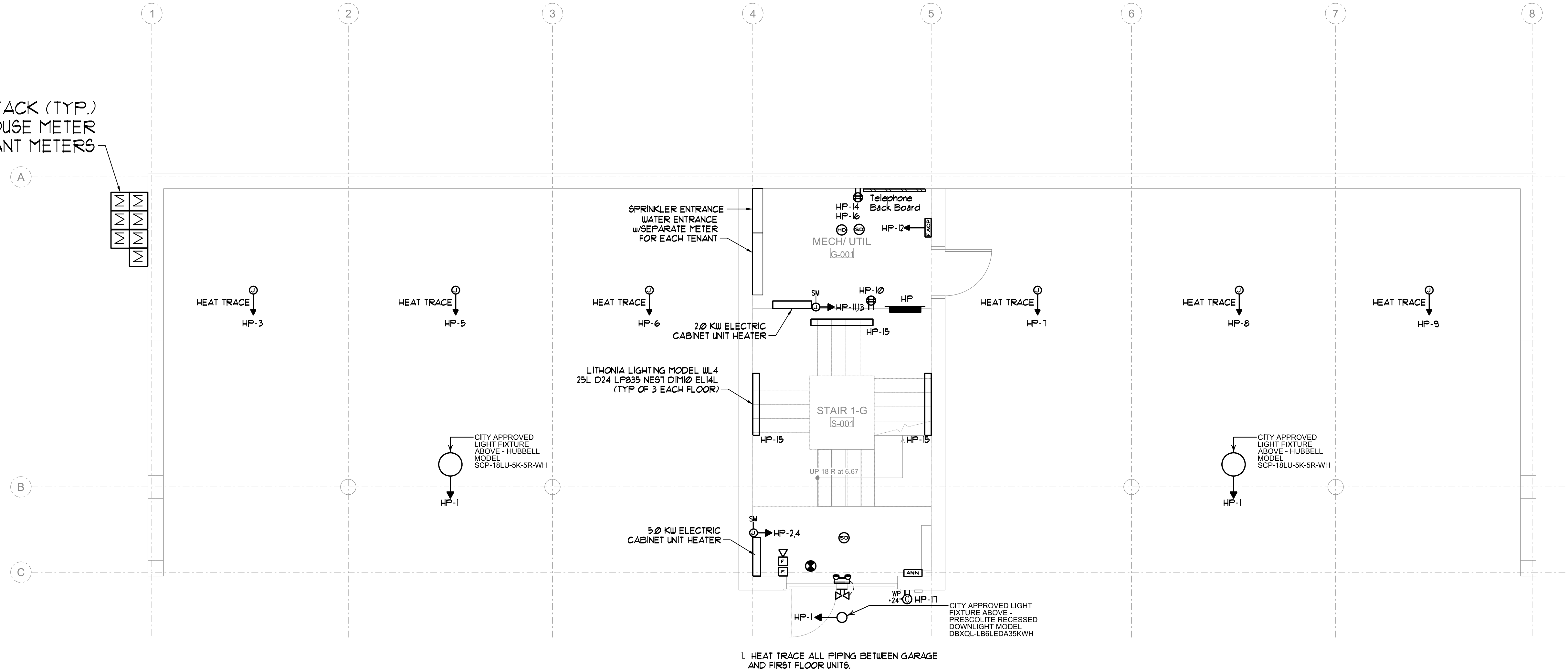
PANEL HP (GARAGE MECH/UTIL RM) 120/240V 1PH 3W 225 AMP BUS - MCB 42K AIC NEMA TYPE 1 (RECESSED)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	GARAGE LIGHTS	20	1	2	1.00	2	2	GARAGE ENTRY CUH	30	2	21	0.70	15
3	GARAGE HEAT TRACE	20	1	4	1.00	4					21	0.70	15
5	GARAGE HEAT TRACE	20	1	4	1.00	4	6	GARAGE HEAT TRACE	20	1	4	1.00	4
7	GARAGE HEAT TRACE	20	1	4	1.00	4	8	GARAGE HEAT TRACE	20	1	4	1.00	4
9	GARAGE HEAT TRACE	20	1	4	1.00	4	10	MECH RM RECEPT	20	1	2	0.50	1
11	GARAGE MECH RM CUH	20	2	9	0.70	6	12	FACP	20	1	4	1.00	4
13				9	0.70	6	14	TELEPHONE BACKBOARD TOP RECEPT	20	1	2	0.50	1
15	STAIRWAY LIGHTS	20	1	3	1.00	3	16	TELEPHONE BACKBOARD BOTTOM RECEPT	20	1	2	0.50	1
17	EXTERIOR RECEPT	20	1	2	0.50	1	18		20	1			0
19		20	1			0	20		20	1			0
21		20	1			0	22		20	1			0
23		20	1			0	24		20	1			0
25		20	1			0	26		20	1			0
27		20	1			0	28		20	1			0
29		20	1			0	30		20	1			0
31		20	1			0	32		20	1			0
33		20	1			0	34		20	1			0
35		20	1			0	36		20	1			0
37		20	1			0	38		20	1			0
39	SPARE	20	1			0	40	SPARE	20	1			0
41	SPARE	20	1			0	42	SPARE	20	1			0

AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - 1)
DA - Demand Amperes
MLO - Main Lug Only
MCB - Main Circuit Breaker

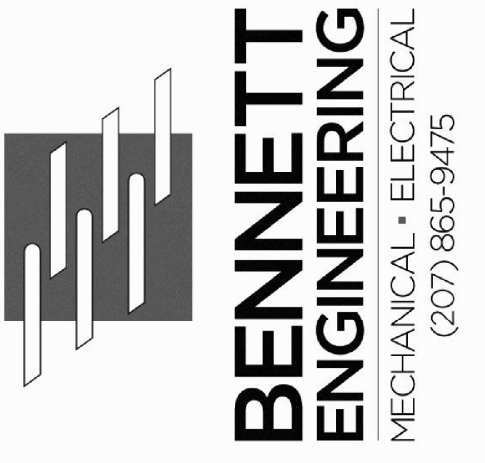
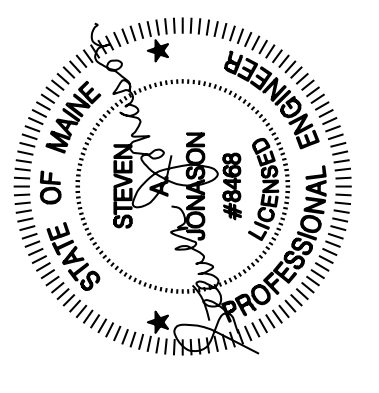
Section 1
Tot Amps/PH - Connected Load 33.17
Demand Factor 78.44%
Total Amps/PH - Demand 26.02
Connected KVA 7.96
Demand KVA 5.41
Min. Panel Size (Demand x 1.25) - Amps 32.52

- NOTES:
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.52
3. INSTALL PER ADA REQUIREMENTS IN ALL ADA UNITS.

METER STACK (TYP.)
1 HOUSE METER
6 TENANT METERS



GROUND FLOOR ELECTRICAL PLAN
SCALE - 1/4" = 1'-0"



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Residential Housing Project
100 York Street
Portland, ME
GRD FLOOR ELECTRICAL PLAN

Date Drawn -	8/8/14
Drawn By -	PMC/SAJ
Revised -	
Project #	3622
Scale -	1/4" = 1'-0"
Sheet Number -	E-100