LHA No: IFB2024-5 CONCORD RIVER MILL ELDERLY HOUSING GENERATOR UPGRADE for Lowell Housing Authority 50 Stackpole Street, Lowell, MA 01850



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CONSULTANTS

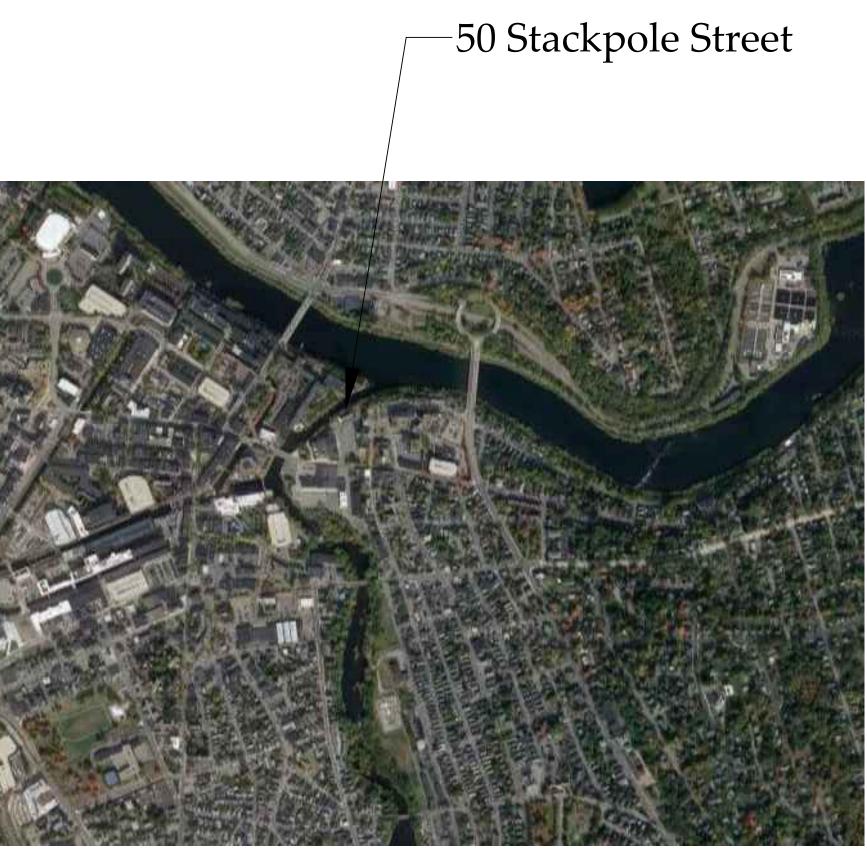
DRAWING LIST

| P1.0 | PLUMBING - LEGEND, DEMO, NE |
|------|------------------------------|
| M1.0 | MECHANICAL - LEGEND, NOTES |
| E0.1 | ELECTRICAL - SYMBOLS AND SCI |
| E1.0 | ELECTRICAL - FLOOR PLANS |



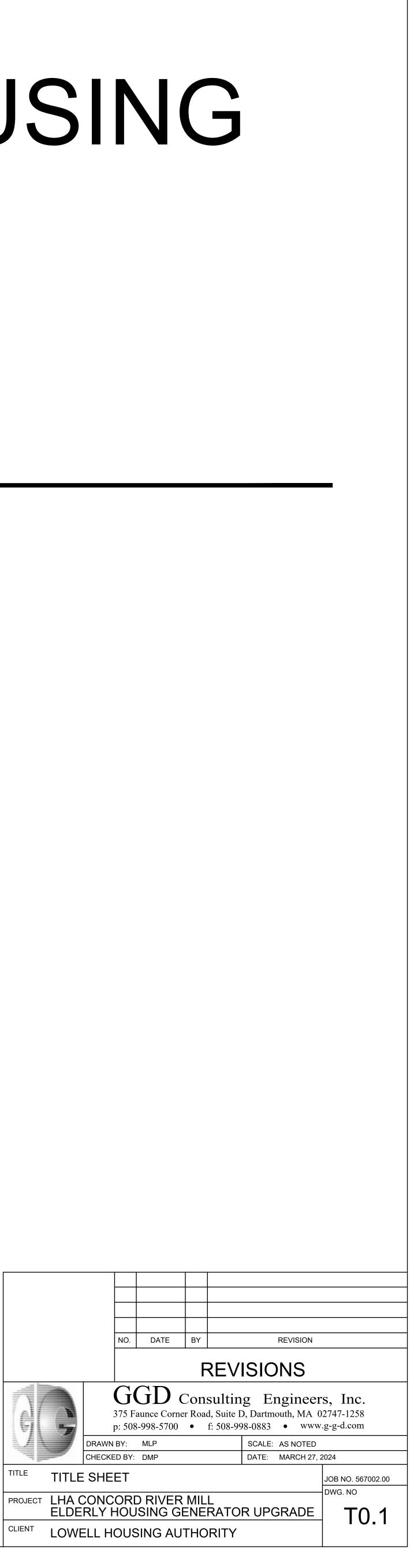
EW WORK, DETAILS AND FLOOR PLANS CHEDULES

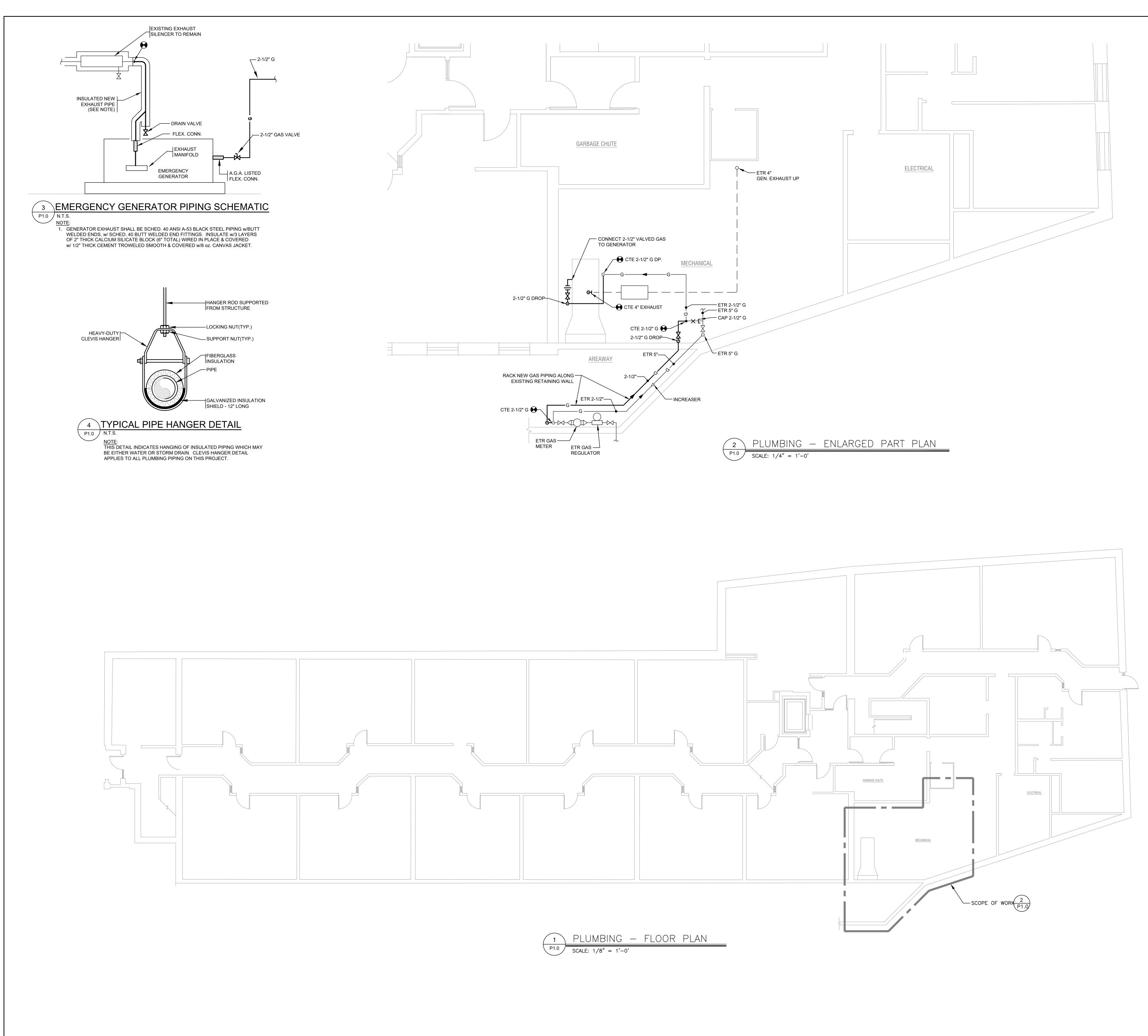
Date: March 27, 2024

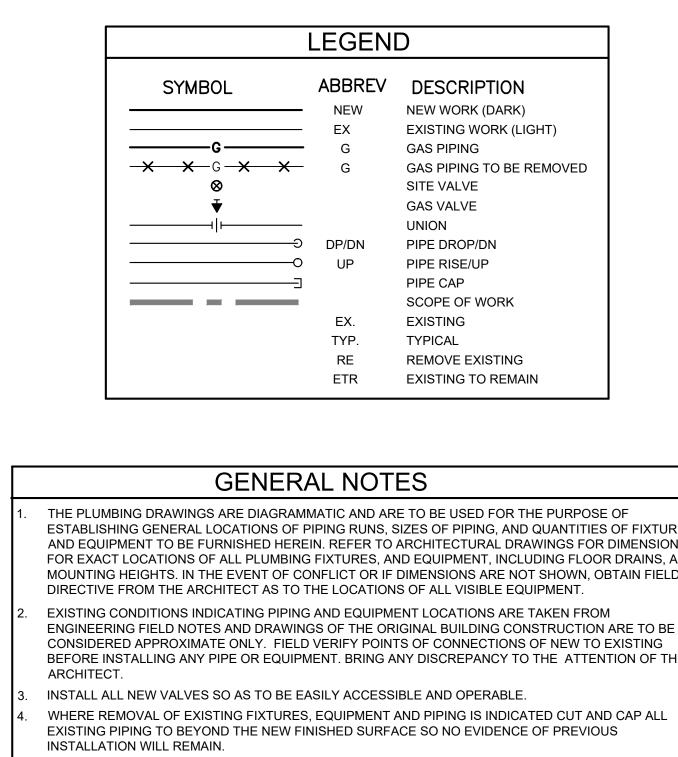


LOCUS PLAN









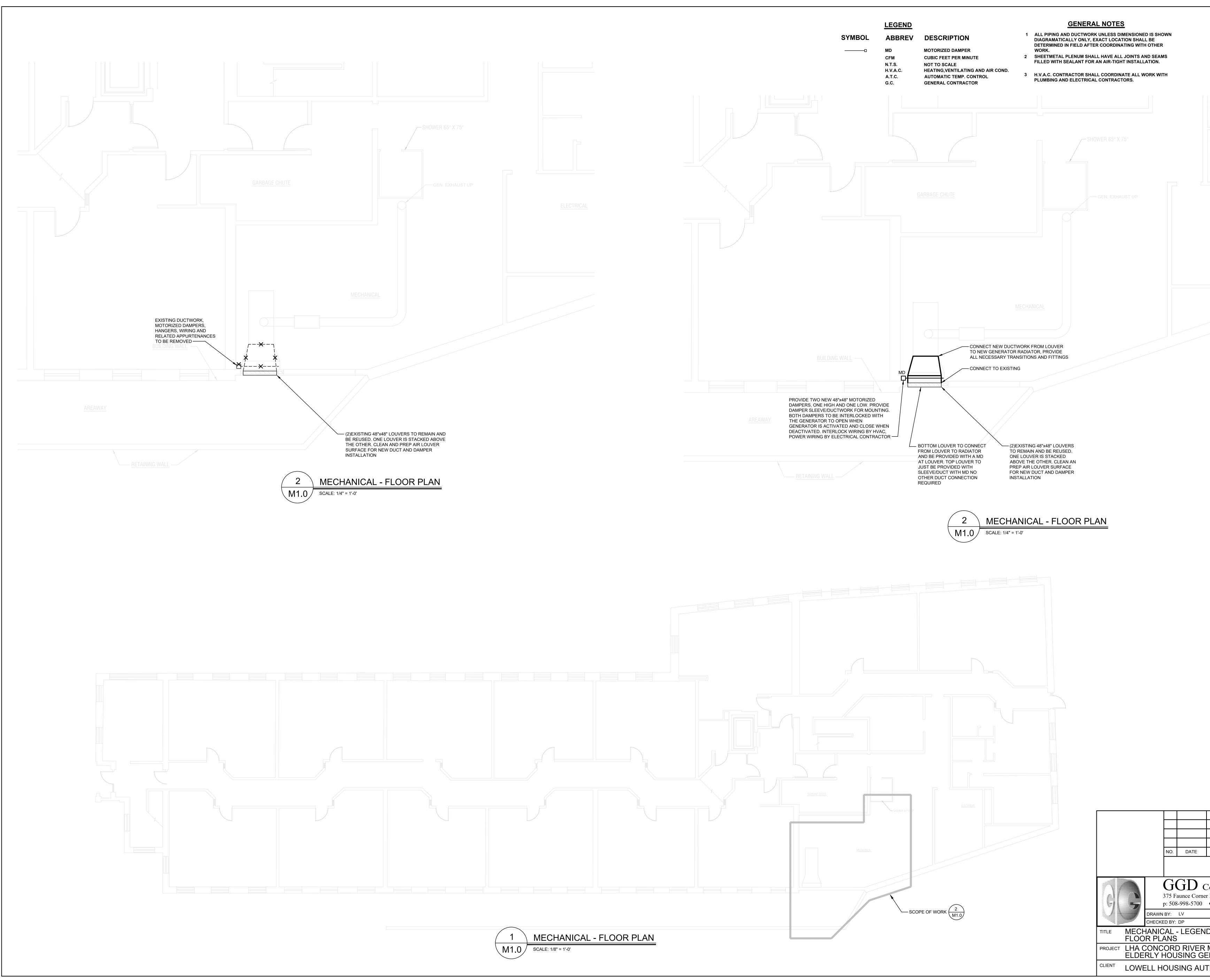
MAINTAIN PLUMBING SYSTEMS IN OTHER BUILDING AREAS AT ALL TIMES DURING THE CONSTRUCTION. REFER TO PHASING PLANS AND SPECIFICATIONS ON THE ARCHITECT'S DRAWINGS & SPECIFICATIONS.

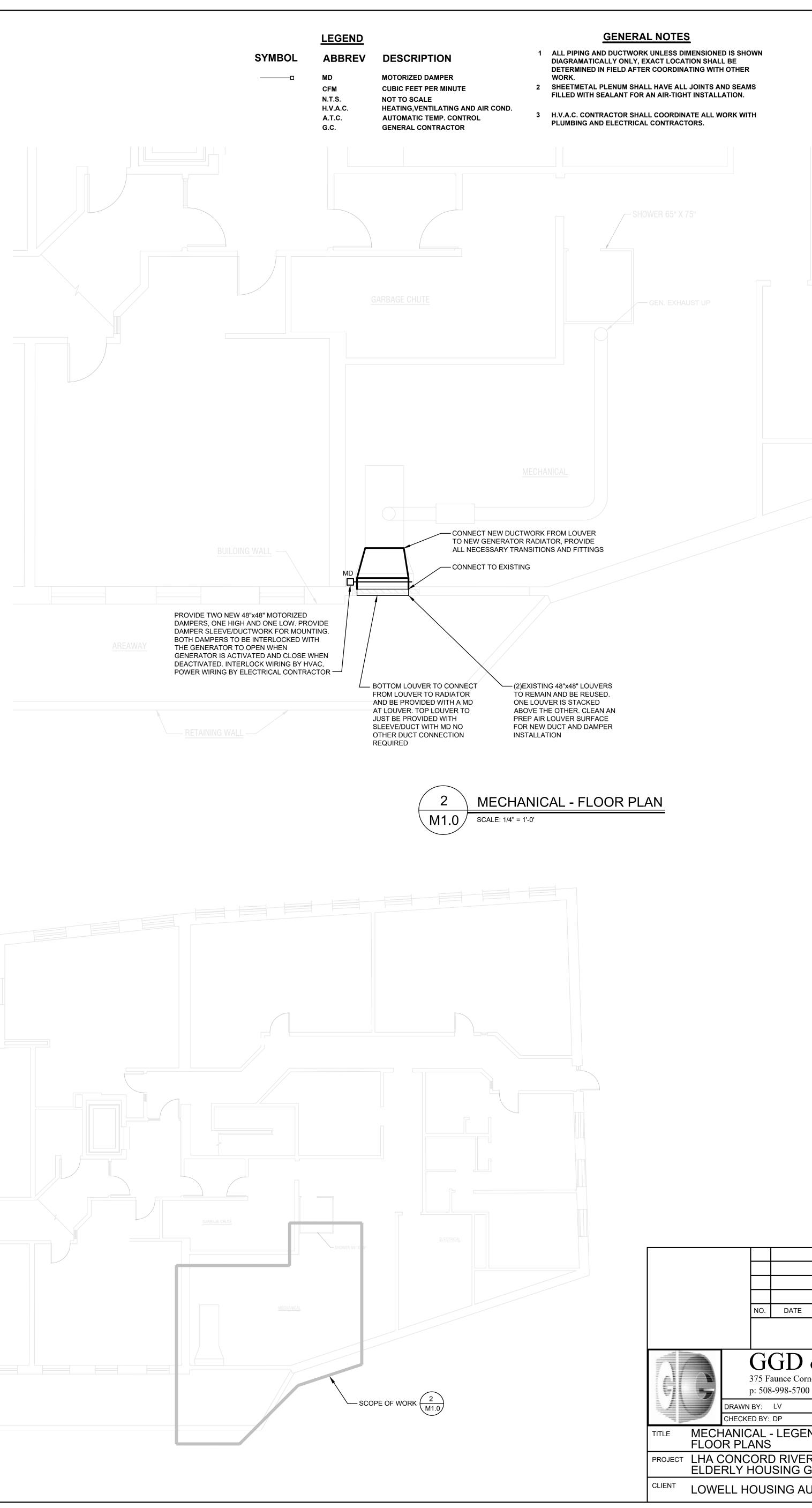


| SEND | | | | |
|----------|--------------------------|--|--|--|
| | RECORDINION | | | |
| REV | DESCRIPTION | | | |
| W | NEW WORK (DARK) | | | |
| | EXISTING WORK (LIGHT) | | | |
| | GAS PIPING | | | |
| | GAS PIPING TO BE REMOVED | | | |
| | SITE VALVE | | | |
| | GAS VALVE | | | |
| | UNION | | | |
| ON | PIPE DROP/DN | | | |
| 0 | PIPE RISE/UP | | | |
| | PIPE CAP | | | |
| | SCOPE OF WORK | | | |
| , | EXISTING | | | |
| . | TYPICAL | | | |
| Ξ | REMOVE EXISTING | | | |
| R | EXISTING TO REMAIN | | | |
| | | | | |

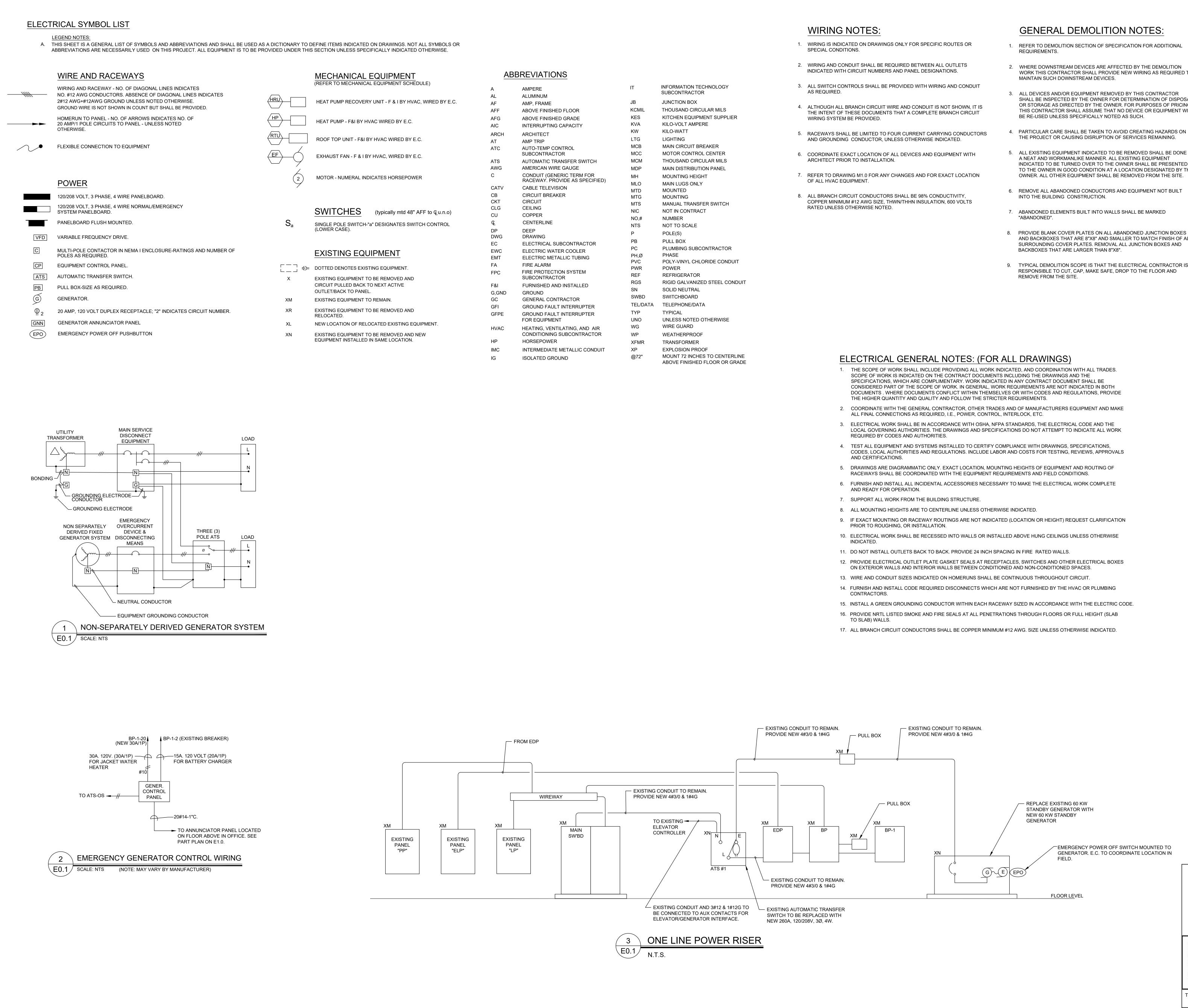
ESTABLISHING GENERAL LOCATIONS OF PIPING RUNS, SIZES OF PIPING, AND QUANTITIES OF FIXTURES AND EQUIPMENT TO BE FURNISHED HEREIN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, AND EQUIPMENT, INCLUDING FLOOR DRAINS, AND MOUNTING HEIGHTS. IN THE EVENT OF CONFLICT OR IF DIMENSIONS ARE NOT SHOWN, OBTAIN FIELD ENGINEERING FIELD NOTES AND DRAWINGS OF THE ORIGINAL BUILDING CONSTRUCTION ARE TO BE BEFORE INSTALLING ANY PIPE OR EQUIPMENT. BRING ANY DISCREPANCY TO THE ATTENTION OF THE

| ΒY | | REVISION | | | | |
|-------------------------------------|--|-------------------|-------------------|--|--|--|
| F | REV | ISIONS | | | | |
| r Road | Consulting Engineers, Inc. Road, Suite D, Dartmouth, MA 02747-1258 f: 508-998-0883 • www.g-g-d.com | | | | | |
| | | SCALE: AS NOTED | | | | |
| | | DATE: MARCH 27, 2 | 2024 | | | |
| ANS | | | JOB NO. 567002.00 | | | |
| MILL ENERATOR UPGRADE THORITY | | | DWG. NO P1.0 | | | |
| | | | | | | |





| BY REVISION | | | | | |
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| REVISIONS | | | | | |
| Consulting Engineer | | | | | |
| r Road, Suite D, Dartmouth, MA 0 • f: 508-998-0883 • www | 2747-1258 .g-g-d.com | | | | |
| SCALE: AS NOTED | 2024 | | | | |
| DATE: MARCH 27, 2 | JOB NO. 567002.00 | | | | |
| MILL | DWG. NO | | | | |
| ENERATOR UPGRADE | | | | | |
| THORITY | M1.0 | | | | |
| | | | | | |



| 1. | WIRING IS INDICA |
|----|-------------------|
| | SPECIAL CONDITION |

| A AUPERE ALL ALLIMINUM AL ALLIMINUM AF AUPERE JB VIAC, WIRED BY E.C. AF AMP, FRAME JB JJ AFF ABOVE FINISHED FLOOR KCMIL F&I BY HVAC, WIRED BY E.C. AFG ABOVE FINISHED GRADE KES K WW K ARCH ARCHITECT KW KW K UIT - F&I BY HVAC, WIRED BY E.C. AT AMP TRIP LTG L ATC AUTO-TEMP CONTROL MCB NO - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M N - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M N - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M NCM T AWG AMERICAN WIRE GAUGE MDP M CATV CABLE TELEVISION MTD M CB CRCUTT BREAKER MTG M CATV CABLE TELEVISION MTD M CB CRCUTT BREAKER MTG M CATV CABLE TELEVISION MTD MTD SWITCH-'s' DESIGNATES SWITCH CONTROL QP DEEP DWG DRAWING SUBCONTRACTOR PB TES EXISTING EQUIPMENT. FA FIRE ALARM PWR P DWG DRAWING SUBCONTRACTOR PB DBACK TO NEXT ACTIVE FAIL OF TREALED RGS F DBACK TO NEXT ACTIVE FAIL OF TREALED RGS F DBACK TO NEXT ACTIVE FAIL GGUID BREAKER T UPMENT TO BE REMOVED AND GG CG GENERAL CONTRACTOR PB DWG DRAWING SUBCONTRACTOR PB DWG DRAWING SUBCONTRACTOR PC DWG PARENT IPMENT TO REREMOVED AND SN SS SUBCONTRACTOR SNEEM SUBCONTRACTOR SNEEM TO PARELL GGND GROUND FAULT INTERRUPTER TPY T TO REMAIN. GC GG GENERAL CONTRACTOR WP TYP T TO REMOVED AND SN SS SUBLE OF AND NEW CONDITIONING SUBCONTRACTOR WP TYP T TO REMOVED AND NEW CONDITIONING SUBCONTRACTOR WP TO STALE DAND NEW TO DE REMOVED AND NEW CONDITIONING SUBCONTRACTOR WP TYP T TO REMAIN. | ICAL EQUIPMENT | ABBREVIATIONS | | | | |
|---|---|---------------|-------------------------------|----------|-------------------------------|--|
| ALALUMINUMSeCOVERY UNIT - F & I BY HVAC, WIRED BY E.C.AFAMP, FRAMEJBJBJBAFAAPGRAWP, FRAMELOORKCMILLTF&I BY HVAC WIRED BY E.C.AFGABOVE FINISHED GRADEKESKAICINTERRUPTING CAPACITYKVAKKIIT - F&I BY HVAC WIRED BY E.C.ARCHARCHARCHKESKA TCAUTO-TEMP CONTROLMCBMCBMCBMCB4 - F & I BY HVAC, WIRED BY E.C.ATAUTO-TEMP CONTROLMCGMCMTAUTO-TEMP CONTROLWCBAMGAMERICAN WIRE GAUGEMDPMMCMTERAL INDICATES HORSEPOWERCCONDUTI (GENERIC TERM FOR RACEWAY, PROVIDE AS SPECIFIED)MLOMCES(typically mtd 48" AFF to Quin.o)CUCOPPERNICMTSMSWITCH-**DESIGNATES SWITCH CONTROLQCCNTERLINENG,#NMGMSWITCH-**DESIGNATES SWITCH CONTROLPDEDDDEEPPPDDWGDRAWINGPPDWGDRAWINGPPPDDESIGNATES SWITCH CONTROLFAFIRE ALARMPWRPPDDWGDRAWINGPDWGDAWINGPPDDWGDRAWINGPFAFIRE ALARMPWRPFDWGDRAWINGPFFFAFIRE ALARMPWRPDWG <td< th=""><th>CHANICAL EQUIPMENT SCHEDULE)</th><th>А</th><th>AMPERE</th><th>IT</th><th>INFORMATION TECHNOLOGY</th></td<> | CHANICAL EQUIPMENT SCHEDULE) | А | AMPERE | IT | INFORMATION TECHNOLOGY | |
| ECOVERY UNIT - F & I BY HVAC, WIRED BY E.C. AF AMP, FRAME JB JJ Fail BY HVAC, WIRED BY E.C. AFG ABOVE FINISHED FLOOR KCMIL T Fail BY HVAC WIRED BY E.C. AFG ABOVE FINISHED GRADE KES K IT - F&I BY HVAC WIRED BY E.C. ATC AND TRIP KCM K IT - F&I BY HVAC, WIRED BY E.C. ATC AUTOMATIC TRANSFER SWITCH MCG M I - F & I BY HVAC, WIRED BY E.C. ATC AUTOMATIC TRANSFER SWITCH MCG M I - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCG M I - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCG M I - F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCG M ERAL INDICATES HORSEPOWER C CONDUIT (GENERCTOR MDP M ERAL INDICATES HORSEPOWER C CONDUIT (GENERCT TRM FOR RACEWAY, PROVIDE AS SPECIFIED) MLO MLO MCC MCC ESS (typically mtd 48" AFF to Qu.n.o.) CU COPFER MTG MTG MCC | | | | | SUBCONTRACTOR | |
| AFF ABOVE FINISHED FLOOR KCMILL T AFG ABOVE FINISHED GRADE KES K AFG ABOVE FINISHED GRADE KES KES AFG ABOVE FINISHED GRADE KES KES AFG ABOVE FINISHED GRADE KES AFG ARCH ARCHITECT KW KW K ARCH ARCHITECT KW KW K ARCH ARCHITECT KW KG K SUBCONTRACTOR MCB MCB K ATC AUTO-TEMP CONTROL MCB MCB MCB K AFG AMOPTING CONTROL MCB MCG M AFG AMERICAN WIRE GAUGE MDP M AFG AMERICAN WIRE GAUGE MDP M AFG C CONDUTING (ENERIC TERM FOR MH M AFG C CONDUTING (ENERIC TERM FOR MH M AFG C CONDUTING REAKER MTG M CATV CABLE TELEVISION MTD M CB CIRCUIT BREAKER MTG M CG CELLING CELLING NIC NN WITCH-*a* DESIGNATES SWITCH CONTROL Q C CENTERLINE NO,# FA FIRE ALARM NO CONTRACTOR PB ES EXISTING EQUIPMENT. FA FIRE ALARM PYC DE FRO FA FIRE ALARM PYC DE FINISHED AND INSTALLED SN WENT TO BE REMOVED AND DE CIRCUIT STALLED SYSTEM REF R MARCH ART CONTRACTOR PC P FA FIRE ALARM PYC DE FINISHED AND INSTALLED SN WHICH TO BE REMOVED AND OF RELOCATED EXISTING EQUIPMENT. FAI FIRE ALARM PYC P FA FIRE ALARM PYC P MENT TO BE REMOVED AND OF RELOCATED EXISTING EQUIPMENT. FAI FIRE ALARM PYC P FA FIRE ALARM PYC P THEN TO BE REMOVED AND D ACK TO NEXT ACTIVE FAIL FURNISHED AND INSTALLED SN MENT TO BE REMOVED AND OF RELOCATED EXISTING EQUIPMENT. FA FIRE ALARM PYC P FA FIRE ALARM PYC P THEN TO BE REMOVED AND OF RELOCATED EXISTING EQUIPMENT. FAI FIRE ALARM PYC P FA FIRE PROTECTION SYSTEM REF R FAI FURNISHED AND INSTALLED SN MENT TO BE REMOVED AND OF RELOCATED EXISTING EQUIPMENT. FAI FURNISHED AND INSTALLED SN THEN TO BE REMOVED AND FAI FOR EQUIPMENT. TO FOR ALL INTERRUPTER THE POR FAI FURNISHED AND INSTALLED SN SN MENT TO BE REMOVED AND AND WC VENT ACTOR WE P FAI FURNISHED AND INSTALLED SN SN SN MENT TO BE REMOVED AND NEW TO PATION SUBCONTRACTOR WP VC | ECOVERY UNIT - F & I BY HVAC, WIRED BY E.C. | | | JB | JUNCTION BOX | |
| &I BY HVAC WIRED BY E.C. AFG ABOVE FINISHED GRADE KES KES KES AIC INTERRUPTING CAPACITY KVA KW K AIC INTERRUPTING CAPACITY KVA KW K AIC ARCH ARCHITECT KW KW K AIT AMP TRIP LTG LTG L AIT AUTOATIC TEMP CONTROL MCB MCC M SUBCONTRACTOR MCC MCC MC MCC M AIT AUTOATIC TRANSFER SWITCH MCM T MCC M AIT AUTOATIC TRANSFER SWITCH MCM T MCC M M M M MCC MCC M M M MCC MCC M MCC MCC M M MCC MC | | | | KCMIL | THOUSAND CIRCULAR MILS | |
| SLIBY HVAC WIRED BY E.C. AIC INTERRUPTING CAPACITY KVA K AIC AIC AIC AIC INTERRUPTING CAPACITY KVA K IF & I BY HVAC, WIRED BY E.C. AT AMP TRIP LTG L ATS AUTOMATIC TRANSFER SWITCH MCC M AWG AMERCAN WIRE GAUGE MDP M AWG AMERCAN WIRE GAUGE MDP M RAL INDICATES HORSEPOWER C CONDUIT (GENERIC TERM FOR MH M CATV CABLE TELEVISION MID MID M CATV CABLE TELEVISION MTO M MC M CLG CELING CIRCUIT BREAKER MTG M <td></td> <td></td> <td></td> <td>KES</td> <td>KITCHEN EQUIPMENT SUPPLIER</td> | | | | KES | KITCHEN EQUIPMENT SUPPLIER | |
| $ \begin{array}{c} \mbox{ARCH} & \mbox{ARCHITECT} & \mbox{KW} & \mbox{KW} & \mbox{KW} & \mbox{KW} & \mbox{KW} & \mbox{AT} & \mbox{AT} & \mbox{AMP TRIP} & \mbox{LTG} & \mbox{LTG} & \mbox{AUTO-TEMP CONTROL} & \mbox{MCG} & \mbo$ | I BY HVAC WIRED BY E.C. | | | | KILO-VOLT AMPERE | |
| | | | | KW | KILO-WATT | |
| AT AMP TRP MCB MCB ATC AUTO-TERP CONTROL MCB MCC MCC SUBCONTRACTOR MCC MCC MCC ATS AUTOATERP CONTROL MCM MCM AWG AMERICAN WIRE GAUGE MDP MCM WG AMERICAN WIRE GAUGE MDP MCM Stal INDICATES HORSEPOWER C CONDUIT (GENERIC TERM FOR MAL MH M CATV CABLE TELEVISION MTD MLO M CATV CABLE TELEVISION MTD MC CKT CIRCUIT BREAKER MTG M VITCH-"a" DESIGNATES SWITCH CONTROL Q CENTERLINE NO,# DP DEEP P P DWG DRAWING P P EQUIPMENT FA FIRE PROTECTION SYSTEM PKF SEXISTING EQUIPMENT. FA FIRE PROTECTION SYSTEM REF MENT TO BE REMOVED AND GC GENERAL CONTRACTOR SWBD S JPANEL G,GND GROUND FAULT INTERRUPTER TU | - F&I BY HVAC WIRED BY F C | | | LTG | LIGHTING | |
| F & I BY HVAC, WIRED BY E.C. ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M AWG AMERICAN WIRE GAUGE MDP M CC C CONDUIT (GENERCT TERM FOR MLO M CATV CABLE TELEVISION MTD M CB CIRCUIT BREAKER MTG M CKT CIRCUIT MTS M CLG CEILING NIC N CLG CEILING NIC N VITCH-"a" DESIGNATES SWITCH CONTROL Q COPPER NO,# N VITCH-"a" DESIGNATES SWITCH CONTROL Q CONTRACTOR PB EQUIPMENT ECC ELECTRICA SUBCONTRACTOR PB EC ELECTRICA SUBCONTRACTOR PB EXISTING EQUIPMENT. FR FIRE ALARM PVC P EK CIRCUIT SYSTEM REF BACK TO NEXT ACTIVE F&I FURNISHED AND INSTALLED SN SS SEXISTING EQUIPMENT. FA FIRE ALARM PVC P FR FIRE ALARM PVC P ENT ELECTRIC NATER COOLER PC ENT ELECTRIC NATER COOLER PC FR FIRE ALARM PVC P ENT ELECTRIC NATER COOLER PC FR FIRE ALARM PVC P ENT ELECTRIC NATER COOLER PC ENT O BE REMOVED AND BACK TO NEXT ACTIVE F&I FUNNISHED AND INSTALLED SN SS N SS PANEL. ALENT TO REMAIN. GC GENERAL CONTRACTOR SWBD S ALENT TO BE REMOVED AND PC FRELOCATED EXISTING EQUIPMENT. HVAC HEATING, VENTILATING, AND AIR WG V CONDITIONING SUBCONTRACTOR WP | | | | _ | MAIN CIRCUIT BREAKER | |
| ATS AUTOMATIC TRANSFER SWITCH MCM T AWG AMERICAN WIRE GAUGE MDP M AWG AMERICAN WIRE GAUGE MDP M C CONDUIT (GENERIC TERM FOR RACEWAY, PROVIDE AS SPECIFIED) MH M CATV CABLE TELEVISION MLO MLO M CATV CABLE TELEVISION MTD M CKT CIRCUIT BREAKER MTG M CU COPPER NO.# N VITCH-"a" DESIGNATES SWITCH CONTROL Q CENTERLINE NO.# N DP DEEP P P P P EQUIPMENT EWC ELECTRICAL SUBCONTRACTOR PB P S EXISTING EQUIPMENT. FA FIRE ALARM PV/C P S EXISTING EQUIPMENT. FA FIRE ALARM PWR P ACT NO NEXT ACTIVE G,GND GROUND SN SS PANEL G,GND GROUND SN SN SN ACT NO NEXT ACTIVE F&I FIRE PROTECTION SYSTEM REF REF PA | | AIC | | | MOTOR CONTROL CENTER | |
| AWG AMERICAN WIRE GAUGE MDP M AWG AMERICAN WIRE GAUGE MDP M RAL INDICATES HORSEPOWER C C C CONDUT (GENERIC TERM FOR MH M C C C CADUT GENERIC TERM FOR MH M RACEWAY. PROVIDE AS SPECIFIED) MLO M CATV CABLE TELEVISION MTD M CB CIRCUIT BREAKER MTG M CB CIRCUIT BREAKER MTG M CCG CEILING NIC N CLG CEILING NIC N NIC N VITCH-"a" DESIGNATES SWITCH CONTROL Q COPPER NO.# MO.# N VITCH-"a" DESIGNATES SWITCH CONTROL Q C CENTERLINE NO.# EQUIPMENT EEQUIPMENT. FA FIRE ALARM PVC P S EXISTING EQUIPMENT. FA FIRE ALARM PVC P S EXISTING EQUIPMENT. FA FIRE ALARM PVC P FFC FIRE PROTECTION SYSTEM REF MENT TO BE REMOVED AND B BACK TO NEXT ACTIVE FA! FOR CONTRACTOR REF PANEL. GC GENERAL CONTRACTOR REF PANEL. GC GENERAL CONTRACTOR REF PANEL. GC GENERAL CONTRACTOR SWBD S GC GENERAL CONTRACTOR SWBD S GFI GROUND FAULT INTERRUPTER TEL/DATA T FOR EQUIPMENT. HVAC HEATING, AND AIR WG W CONDITION SUBCONTRACTOR WP W | F & I BY HVAC, WIRED BY E.C. | ΔΤς | | | THOUSAND CIRCULAR MILS | |
| Ral INDICATES HORSEPOWER C CONDUIT (GENERIC TERM FOR RACEWAY. PROVIDE AS SPECIFIED) MH MLO MLO <td></td> <td></td> <td></td> <td></td> <td>MAIN DISTRIBUTION PANEL</td> | | | | | MAIN DISTRIBUTION PANEL | |
| CALINDICATES HORSEROWER RACEWAY. PROVIDE AS SPECIFIED) MLO MLO MLO CATV CABLE TELEVISION MTD MTD MC CB CIRCUIT BREAKER MTG MTG MC CB CIRCUIT BREAKER MTG MTG MTG MTG CLG CEILING MTS MIS MC MTS MC VITCH-"a" DESIGNATES SWITCH CONTROL Q CENTERLINE NO.# | | | | | | |
| CATV CABLE TELEVISION MTD M CB CIRCUIT BREAKER MTG M CKT CIRCUIT BREAKER MTG M CKT CIRCUIT BREAKER MTG M CKT CIRCUIT MTS M CLG CELLING NIC N NIC N CLG CELLING NIC N NO,# N CU COPPER NIC DP DEEP DWG DRAWING P P P EC ELECTRICAL SUBCONTRACTOR PB P EC ELECTRICAL SUBCONTRACTOR PB P EWC ELECTRIC WATER COOLER PC PB EWC ELECTRIC WATER COOLER PC P BACK TO NEXT ACTIVE FA FIRE ALARM PVC P FA FIRE ALARM PVC P FA FIRE ALARM PVC P BACK TO NEXT ACTIVE F&I FUNCTION SYSTEM REF R SUBCONTRACTOR REF R PANEL. G,GND GROUND SUBCONTRACTOR SWBD S ALENT TO BE REMOVED AND GC GENERAL CONTRACTOR SWBD S ALENT TO BE REMOVED AND GC GENERAL CONTRACTOR TELLOATA T GFP ELECATED EXISTING EQUIPMENT. GC GENERAL CONTRACTOR SWBD S ALENT TO REMAIN. GC GENERAL CONTRACTOR SWBD S ALENT TO BE REMOVED AND GC GENERAL CONTRACTOR TELLOATA T GFP EGOUND FAULT INTERRUPTER TELLOATA T GFP GROUND FAULT INTERRUPTER TYP T HVAC HEATING, VENTILATING, AND AIR WG W ALENT TO BE REMOVED AND NEW | RAL INDICATES HORSEPOWER | C | | | | |
| CB CIRCUIT BREAKER MTG MTG CKT CIRCUIT BREAKER MTG MTG CKT CIRCUIT CH."a" DESIGNATES SWITCH CONTROL CLG CEILING NO,# NIC VITCH."a" DESIGNATES SWITCH CONTROL Q COPPER NO,# NIC VITCH."a" DESIGNATES SWITCH CONTROL Q CENTERLINE NTS NO,# DP DEEP DWG DRAWING P P PC EC ELECTRICAL SUBCONTRACTOR PB PC EC ELECTRICAL SUBCONTRACTOR PB PC FA FIRE ALARM PVC PC FIRE PROTECTION SYSTEM SUBCONTRACTOR REF R SUBCONTRACTOR REF R SUBCONTRACTOR PC PVC P FA FIRE ALARM PVC PVC PANEL. G,GND GROUND SUBCONTRACTOR SUBCONTRACTOR SUBCONTRACTOR SUBCONTRACTOR SN S SOLUTION FALLED SN SE CARAMENT. FPC FIRE PROTECTION SYSTEM SUBCONTRACTOR SUBCONTRACTOR SN SOLUTION FALLED SN SOLUTION FOR CONTRACTOR SN SOLUTION FOR CONTRACTOR SUBCONTRACTOR SN SOLUTION FOR CONTRACTOR SUBCONTRACTOR SN SOLUTION FOR CONTRACTOR SN SOLUTION FOR CONTRACTOR SUBCONTRACTOR SUBCONTRACTOR SN SOLUTION FOR CONTRACTOR SN SOLUTION FOR CONTRACTOR SN SOLUTION FOR CONTR | | CATV | CABLE TELEVISION | | | |
| CKT CIRCUIT MTS < | | | | | MOUNTED MOUNTING | |
| Signed Signates Switch control CLG CELING NIC | | | | - | MANUAL TRANSFER SWITCH | |
| Interference Construction No,# No No,# No No,# N | | CLG | CEILING | | | |
| /ITCH-"a" DESIGNATES SWITCH CONTROL Q CENTERLINE NTS NTS N DP DEEP P P P DWG DRAWING P P EC ELECTRICAL SUBCONTRACTOR PB P EQUIPMENT EWC ELECTRICAL SUBCONTRACTOR PH,Ø P S EXISTING EQUIPMENT. FA FIRE ALARM PWR P RENT TO BE REMOVED AND FA FIRE PROTECTION SYSTEM REF R BACK TO NEXT ACTIVE F&I FURNISHED AND INSTALLED SN S PANEL. G,GND GROUND SN S IENT TO BE REMOVED AND GC GENERAL CONTRACTOR SWBD S IENT TO REMAIN. GC GENERAL CONTRACTOR SWBD S IENT TO BE REMOVED AND GFI GROUND FAULT INTERRUPTER TEL/DATA T IENT TO BE REMOVED AND GFI GROUND FAULT INTERRUPTER TVP T IF RELOCATED EXISTING EQUIPMENT. HVAC HEATING, VENTILATING, AND AIR WG W IF RELOCATED EXISTING EQUIPMENT. HVAC HEATING, VENTILATING, AND AIR WG W | (typically mtd 48" AFF to $Quin.o$) | CU | COPPER | | | |
| DPDEEPPDWGDRAWINGPECELECTRICAL SUBCONTRACTORPBEQUIPMENTEWCELECTRIC WATER COOLEREMTELECTRIC METALLIC TUBINGPH,ØS EXISTING EQUIPMENT.FAFIRE ALARMS EXISTING EQUIPMENT.FAFIRE PROTECTION SYSTEMBACK TO NEXT ACTIVEF&IFURNISHED AND INSTALLEDBACK TO NEXT ACTIVEF&IFURNISHED AND INSTALLEDPANEL.G,GNDGROUNDIENT TO BE REMOVED ANDGCGENERAL CONTRACTORIENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERIENT TO BE REMOVED ANDHVACHEATING, VENTILATING, AND AIRWGWVIENT TO BE REMOVED AND NEWWDWENT TO BE REMOVED AND NEWWDWENT TO BE REMOVED AND NEWWDWILLED NEWWDWENT TO BE REMOVED AND NEWWDWILLED NEW | /ITCH-"2" DESIGNATES SWITCH CONTROL | Ģ | CENTERLINE | | | |
| DWGDRAWINGPPPECELECTRICAL SUBCONTRACTORPBPCPEQUIPMENT.EWCELECTRIC WATER COOLERPCPS EXISTING EQUIPMENT.FAFIRE ALARMPVCPMENT TO BE REMOVED ANDFAFIRE PROTECTION SYSTEMPWRPBACK TO NEXT ACTIVEF&IF&IFURNISHED AND INSTALLEDRGSRPANEL.G,GNDGROUNDSNSMENT TO BE REMOVED ANDGCGENERAL CONTRACTORSWBDSMENT TO REMAIN.GCGENERAL CONTRACTORSWBDSMENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTEL/DATATMENT TO BE REMOVED ANDHVACHEATING, VENTILATING, AND AIRWGWMENT TO BE REMOVED AND NEWHVACHEATING, VENTILATING, AND AIRWGW | ATCH- & DESIGNATES SWITCH CONTROL | | DEEP | | NOT TO SCALE | |
| ECELECTRICAL SUBCONTRACTORPCPEQUIPMENTEWCELECTRIC WATER COOLERPH,ØPEMTELECTRIC METALLIC TUBINGPVCPS EXISTING EQUIPMENT.FAFIRE ALARMPWRPMENT TO BE REMOVED ANDFPCFIRE PROTECTION SYSTEM SUBCONTRACTORREFRBACK TO NEXT ACTIVEF&IFURNISHED AND INSTALLEDRGSRPANEL.G,GNDGROUNDSNSMENT TO REMAIN.GCGENERAL CONTRACTORSWBDSMENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTEL/DATATMENT TO BE REMOVED ANDGFPEGROUND FAULT INTERRUPTERTYPTFOR EQUIPMENT.HVACHCATING, VENTILATING, AND AIRWGWMENT TO BE REMOVED AND NEWUNDOUNDOUNDOUNDOUNDOMENT TO BE REMOVED AND NEWHVACHCATING, VENTILATING, AND AIRWGW | | | | Р | POLE(S) | |
| EQUIPMENTEWCELECTRIC WATER COOLERPH,ØPEMTELECTRIC METALLIC TUBINGPVCPS EXISTING EQUIPMENT.FAFIRE ALARMPWRMENT TO BE REMOVED ANDFPCFIRE PROTECTION SYSTEM SUBCONTRACTORREFRBACK TO NEXT ACTIVEF&IFURNISHED AND INSTALLEDRGSRPANEL.G,GNDGROUNDSNSMENT TO REMAIN.GCGENERAL CONTRACTORSWBDSMENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTEL/DATATMENT TO BE REMOVED ANDGFPEGROUND FAULT INTERRUPTERTYPTOF RELOCATED EXISTING EQUIPMENT.HVACHEATING, VENTILATING, AND AIRWGWMENT TO BE REMOVED AND NEWUND CONTRACTORWPW | | EC | ELECTRICAL SUBCONTRACTOR | PB | PULL BOX | |
| EQUIFIVIENTEMTELECTRIC METALLIC TUBINGPH,ØPS EXISTING EQUIPMENT.FAFIRE ALARMPVCPIENT TO BE REMOVED ANDFPCFIRE PROTECTION SYSTEM SUBCONTRACTORREFRBACK TO NEXT ACTIVEF&IFURNISHED AND INSTALLEDRGSRPANEL.G,GNDGROUNDSNSIENT TO REMAIN.GCGENERAL CONTRACTORSWBDSIENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTEL/DATATIENT TO BE REMOVED ANDGFPEGROUND FAULT INTERRUPTERTYPTIF RELOCATED EXISTING EQUIPMENT.HVACHEATING, VENTILATING, AND AIR CONDITIONING SUBCONTRACTORWGWIENT TO BE REMOVED AND NEWUND UND UND UNDUND UND UNDUNDUNDUNDIENT TO BE REMOVED AND NEWUND UND UNDUND UNDUNDUNDUNDIENT TO BE REMOVED AND NEWUND UNDUNDUNDUNDUNDIENT TO BE REMOVED AND NEWUNDUNDUNDUNDUNDIENT TO BE REMOVED AND NEWUNDUNDUNDUNDUND <td< td=""><td></td><td>EWC</td><td>ELECTRIC WATER COOLER</td><td>PC</td><td>PLUMBING SUBCONTRACTOR</td></td<> | | EWC | ELECTRIC WATER COOLER | PC | PLUMBING SUBCONTRACTOR | |
| S EXISTING EQUIPMENT.FAFIRE ALARMPWRPIENT TO BE REMOVED ANDFPCFIRE PROTECTION SYSTEM SUBCONTRACTORREFRBACK TO NEXT ACTIVEF&IFURNISHED AND INSTALLEDRGSRPANEL.G,GNDGROUNDSNSIENT TO REMAIN.GCGENERAL CONTRACTORSWBDSIENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTEL/DATATIENT TO BE REMOVED ANDGFPEGROUND FAULT INTERRUPTERTYPTIF RELOCATED EXISTING EQUIPMENT.HVACHEATING, VENTILATING, AND AIRWGWIENT TO BE REMOVED AND NEWHVACHUDEHVACHEATING, VENTILATING, AND AIRWGW | | | | | PHASE | |
| FPCFIRE PROTECTION SYSTEM SUBCONTRACTORREFRMENT TO BE REMOVED ANDF&IFURNISHED AND INSTALLEDRGSRPANEL.G,GNDGROUNDSNSMENT TO REMAIN.GCGENERAL CONTRACTORSWBDSMENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTEL/DATATGFPEGROUND FAULT INTERRUPTERTYPTOF RELOCATED EXISTING EQUIPMENT.HVACHEATING, VENTILATING, AND AIRWGWAU ED IN SAME LOCATIONLIDLIDLIDLIDLID | | FA | FIRE ALARM | | POLY-VINYL CHLORIDE CONDUIT | |
| MENT TO BE REMOVED ANDSUBCONTRACTORREFRBACK TO NEXT ACTIVEF&IFURNISHED AND INSTALLEDRGSRBACK TO NEXT ACTIVEG,GNDGROUNDSNSPANEL.G,GNDGROUNDGROUNDSWBDSMENT TO REMAIN.GCGENERAL CONTRACTORSWBDSMENT TO BE REMOVED ANDGFIGROUND FAULT INTERRUPTERTEL/DATATOF RELOCATED EXISTING EQUIPMENT.HVACHEATING, VENTILATING, AND AIRWGWAU ED IN SAME LOCATIONWPWPW | S EXISTING EQUIPMENT. | | | | POWER | |
| BACK TO NEXT ACTIVE F&I FURNISHED AND INSTALLED SN S PANEL. G,GND GROUND GROUND SWBD S MENT TO REMAIN. GC GENERAL CONTRACTOR SWBD S MENT TO BE REMOVED AND GFI GROUND FAULT INTERRUPTER TEL/DATA T OF RELOCATED EXISTING EQUIPMENT. GFPE GROUND FAULT INTERRUPTER TYP T MENT TO BE REMOVED AND NEW HVAC HEATING, VENTILATING, AND AIR WG W AULED IN SAME L OCATION WP W WARD SAME L OCATION WP W | IENT TO BE REMOVED AND | | SUBCONTRACTOR | | REFRIGERATOR | |
| INTEL: G,GND GROUND SWBD SWBD S IENT TO REMAIN. GC GENERAL CONTRACTOR SWBD S IENT TO BE REMOVED AND GFI GROUND FAULT INTERRUPTER TEL/DATA T OF RELOCATED EXISTING EQUIPMENT. GFPE GROUND FAULT INTERRUPTER TYP T IENT TO BE REMOVED AND NEW HVAC HEATING, VENTILATING, AND AIR WG W | BACK TO NEXT ACTIVE | F&I | FURNISHED AND INSTALLED | | RIGID GALVANIZED STEEL CONDUI | |
| MENT TO REMAIN. GC GENERAL CONTRACTOR MENT TO BE REMOVED AND GFI GROUND FAULT INTERRUPTER TEL/DATA T MENT TO BE REMOVED AND GFPE GROUND FAULT INTERRUPTER TYP T DF RELOCATED EXISTING EQUIPMENT. HVAC HEATING, VENTILATING, AND AIR WG W MENT TO BE REMOVED AND NEW CONDITIONING SUBCONTRACTOR WP W | PANEL. | G,GND | GROUND | | SOLID NEUTRAL | |
| MENT TO BE REMOVED AND GFI GROUND FAULT INTERRUPTER TYP T OF RELOCATED EXISTING EQUIPMENT. GFPE GROUND FAULT INTERRUPTER TYP T MENT TO BE REMOVED AND NEW HVAC HEATING, VENTILATING, AND AIR WG W ALL ED IN SAME LOCATION HUB HUB DATE DOWNER WP W | IENT TO REMAIN. | GC | GENERAL CONTRACTOR | SWBD | SWITCHBOARD | |
| GFPE GROUND FAULT INTERRUPTER TYP T FOR EQUIPMENT. MENT TO BE REMOVED AND NEW ALLED IN SAME LOCATION | | GFI | GROUND FAULT INTERRUPTER | TEL/DATA | TELEPHONE/DATA | |
| DF RELOCATED EXISTING EQUIPMENT. FOR EQUIPMENT UNO | IENT TO BE REMOVED AND | | GROUND FAULT INTERRUPTER | TYP | TYPICAL | |
| HVAC HEATING, VENTILATING, AND AIR WG W IENT TO BE REMOVED AND NEW CONDITIONING SUBCONTRACTOR WP W | | | | UNO | UNLESS NOTED OTHERWISE | |
| ALLED IN SAME LOCATION WP V | JF KELUGATED EXISTING EQUIPMENT. | HVAC | HEATING, VENTILATING. AND AIR | WG | WIRE GUARD | |
| ALLED IN SAME LOCATION. HP HORSEPOWER XFMR T | IENT TO BE REMOVED AND NEW | | | WP | WEATHERPROOF | |
| | | HP | HORSEPOWER | | TRANSFORMER | |
| IMC INTERMEDIATE METALLIC CONDUIT XP E | | IMC | INTERMEDIATE METALLIC CONDUIT | | EXPLOSION PROOF | |
| | | | | | MOUNT 72 INCHES TO CENTERLINE | |

- 1. REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL
- 2. WHERE DOWNSTREAM DEVICES ARE AFFECTED BY THE DEMOLITION WORK THIS CONTRACTOR SHALL PROVIDE NEW WIRING AS REQUIRED TO
- 3. ALL DEVICES AND/OR EQUIPMENT REMOVED BY THIS CONTRACTOR SHALL BE INSPECTED BY THE OWNER FOR DETERMINATION OF DISPOSAL OR STORAGE AS DIRECTED BY THE OWNER. FOR PURPOSES OF PRICING THIS CONTRACTOR SHALL ASSUME THAT NO DEVICE OR EQUIPMENT WILL
- 5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
- 6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT
- 8. PROVIDE BLANK COVER PLATES ON ALL ABANDONED JUNCTION BOXES AND BACKBOXES THAT ARE 8"X8" AND SMALLER TO MATCH FINISH OF ALL SURROUNDING COVER PLATES. REMOVAL ALL JUNCTION BOXES AND
- 9. TYPICAL DEMOLITION SCOPE IS THAT THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO CUT, CAP, MAKE SAFE, DROP TO THE FLOOR AND

GENERAL NOTES:

- 2. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY
- CONDITIONS.

- INDICATED.
- OR INSTALLATION.
- ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- FIRE RATED WALLS.
- SPACES.
- SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- PENETRATIONS ABOVE GRADE.



1. ELECTRICAL WORK 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 CODES AND AUTHORITIES.

COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.

3. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD

4. FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.

5. SUPPORT ALL WORK FROM THE BUILDING STRUCTURE.

6. ALL MOUNTING HEIGHTS ARE TO CENTERLINE UNLESS OTHERWISE

7. IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING,

8. ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED

9. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN

10. PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED

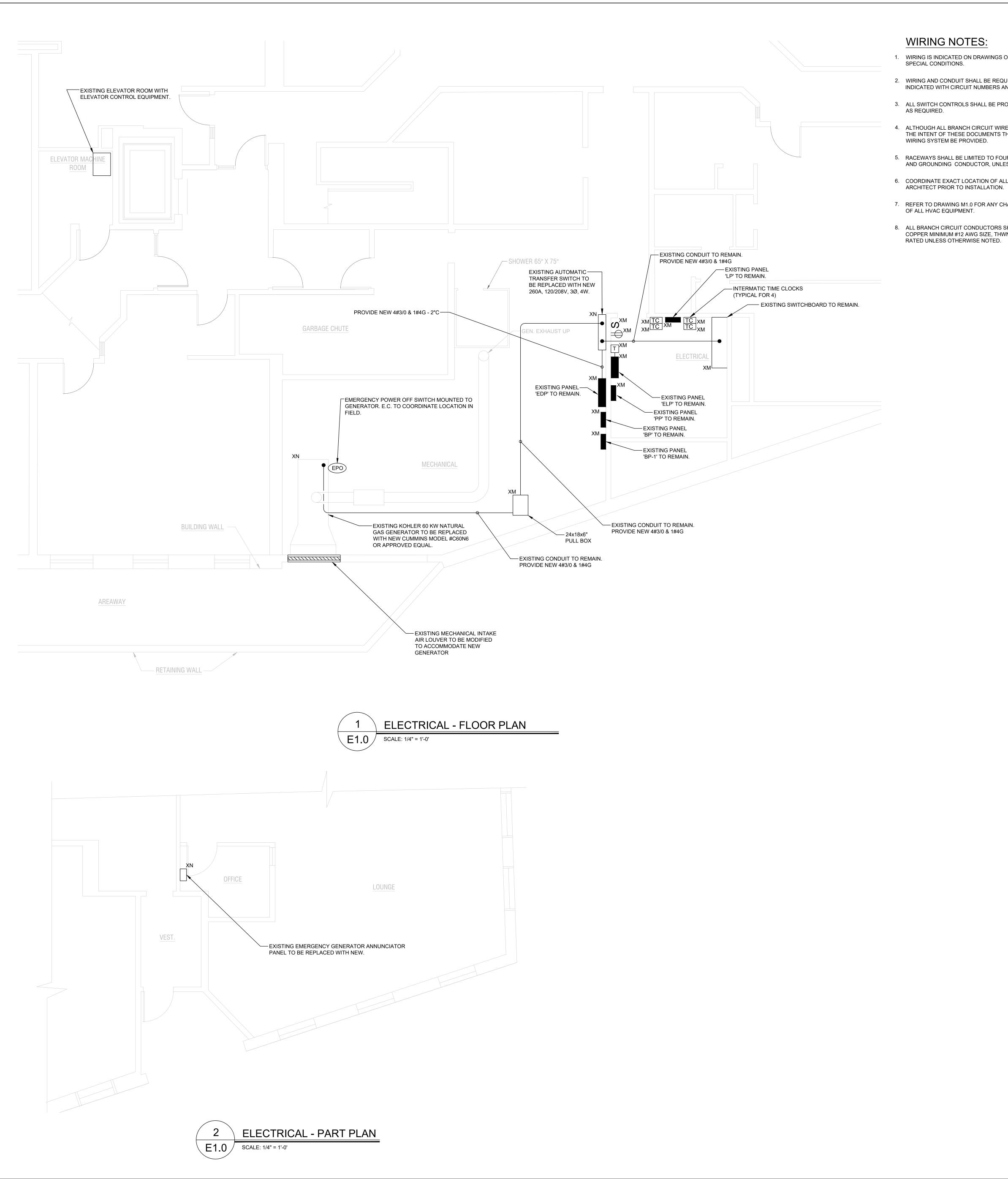
11. INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY

12. 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

13. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.

14. PROVIDE A PULL LINE IN EVERY EMPTY CONDUIT PROVIDED UNDER THIS SECTION.

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| F | REV | ISIONS | | | |
| Road | ConsultingEngineers, Inc.• Road, Suite D, Dartmouth, MA 02747-1258• f: 508-998-0883• www.g-g-d.com | | | | |
| | | SCALE: AS NOTED | | | |
| | | DATE: MARCH 27, 2 | 2024 | | |
| S, NOTES AND | | | JOB NO. 567002.00 | | |
| MILL ENERATOR UPGRADE | | | E.01 | | |
| ГНО | RITY | | | | |



1. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR

2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.

3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT

4. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT

5. RACEWAYS SHALL BE LIMITED TO FOUR CURRENT CARRYING CONDUCTORS AND GROUNDING CONDUCTOR, UNLESS OTHERWISE INDICATED.

6. COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH

7. REFER TO DRAWING M1.0 FOR ANY CHANGES AND FOR EXACT LOCATION

8. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THWN/THHN INSULATION, 600 VOLTS

GENERAL DEMOLITION NOTES:

- 1. REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- 2. WHERE DOWNSTREAM DEVICES ARE AFFECTED BY THE DEMOLITION WORK THIS CONTRACTOR SHALL PROVIDE NEW WIRING AS REQUIRED TO MAINTAIN SUCH DOWNSTREAM DEVICES.
- 3. ALL DEVICES AND/OR EQUIPMENT REMOVED BY THIS CONTRACTOR SHALL BE INSPECTED BY THE OWNER FOR DETERMINATION OF DISPOSAL OR STORAGE AS DIRECTED BY THE OWNER. FOR PURPOSES OF PRICING THIS CONTRACTOR SHALL ASSUME THAT NO DEVICE OR EQUIPMENT WILL BE RE-USED UNLESS SPECIFICALLY NOTED AS SUCH.
- 4. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE PROJECT OR CAUSING DISRUPTION OF SERVICES REMAINING.
- 5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
- 6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT INTO THE BUILDING CONSTRUCTION.
- 7. ABANDONED ELEMENTS BUILT INTO WALLS SHALL BE MARKED "ABANDONED".
- 8. PROVIDE BLANK COVER PLATES ON ALL ABANDONED JUNCTION BOXES AND BACKBOXES THAT ARE 8"X8" AND SMALLER TO MATCH FINISH OF ALL SURROUNDING COVER PLATES. REMOVAL ALL JUNCTION BOXES AND BACKBOXES THAT ARE LARGER THAN 8"X8".
- 9. TYPICAL DEMOLITION SCOPE IS THAT THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO CUT, CAP, MAKE SAFE, DROP TO THE FLOOR AND REMOVE FROM THE SITE.

GENERAL NOTES:

- 2. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY
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- INDICATED.
- OR INSTALLATION.
- ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- FIRE RATED WALLS.
- SPACES.
- SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- PENETRATIONS ABOVE GRADE.
- THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.

| | NO. | DATE | BY | | REVISION | |
|--|-----|------|----|-------------------|-----------------|-----------|
| REVISIONS | | | | | | |
| GGD Consulting Engineers, Inc. 375 Faunce Corner Road, Suite D, Dartmouth, MA 02747-1258 p: 508-998-5700 • f: 508-998-0883 • www.g-g-d.com | | | | | | 2747-1258 |
| DRAWN | | | | | SCALE: AS NOTED | |
| CHECKED BY: DMP DATE: MARCH 27, 2 | | | | | 2024 | |
| TITLE ELECTRICAL - FLOOR PLANS | | | | JOB NO. 567002.00 | | |
| PROJECT LHA CONCORD RIVER MILL ELDERLY HOUSING GENERATOR UPGRADE | | | | | E1.0 | |
| CLIENT LOWELL HOUSING AUTHORITY | | | | | | |

1. ELECTRICAL WORK 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 CODES AND AUTHORITIES.

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13. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS

14. PROVIDE A PULL LINE IN EVERY EMPTY CONDUIT PROVIDED UNDER THIS SECTION.