

ABBREVIATIONS

(SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS)

| ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|--------------|---|--------------|-----------------------------------|
| A or AMP | AMPERES | MH | MANHOLE |
| AC | ALTERNATING CURRENT | MIN | MINIMUM |
| A/C | AIR CONDITIONING | MLO | MAIN LUGS ONLY |
| AIC | AMPERE INTERRUPTING CAPACITY | MOP, MOCP | MAXIMUM OVERCURRENT PROTECTION |
| AL | ALUMINUM | MTD | MOUNTED |
| ARCH | ARCHITECTURAL | MTG | MOUNTING |
| ATC | AUTOMATIC TEMPERATURE CONTROL | NC | NORMALLY CLOSED |
| ATS | AUTOMATIC TRANSFER SWITCH | N, NEUT | NEUTRAL |
| AWG | AMERICAN WIRE GAUGE | NIC | NOT IN CONTRACT |
| BIL | BASIC IMPULSE LEVEL | NO | NORMALLY OPEN |
| BKR | BREAKER | NTS | NOT TO SCALE |
| BLDG | BUILDING | OC | ON CENTER |
| C | CONDUIT | OD | OUTSIDE DIAMETER |
| C.O. | CONDUIT ONLY | OH | OVERHEAD |
| °C | DEGREES CELSIUS | PA | PUBLIC ADDRESS |
| CB | CIRCUIT BREAKER | PB | PULLBOX |
| CCTV | CLOSED CIRCUIT TELEVISION | PF | POWER FACTOR |
| CFM | CUBIC FEET PER MINUTE | ø or PH | PHASE |
| CKT | CIRCUIT | PNL | PANEL |
| CL | CENTER LINE | PR | PAIR |
| CLG | CEILING | PRI | PRIMARY |
| CONC | CONCRETE | PT | POTENTIAL TRANSFORMER |
| CT | CURRENT TRANSFORMER | PVC | POLYVINYL CHLORIDE |
| CU | COPPER | RECPT | RECEPTACLE |
| CW | COLD WATER | REQ | REQUIRED |
| BD | DECIBELS | RF | RADIO FREQUENCY |
| DC | DIRECT CURRENT | RM | ROOM |
| DIA | DIAMETER | RMS | ROOT MEAN SQUARE |
| DIV | DIVISION | SEC | SECONDARY |
| DPDT | DOUBLE POLE, DOUBLE THROW | SHT | SHEET |
| DPST | DOUBLE POLE, SINGLE THROW | SMR | SURFACE METAL RACEWAY |
| DWG | DRAWING | SN | SOLID NEUTRAL |
| EGC | EQUIPMENT GROUND CONDUCTOR | SP | SINGLE POLE |
| ELEC | ELECTRIC | SPD | SURGE PROTECTIVE DEVICE |
| EMT | ELECTRICAL METALLIC TUBING | SPDT | SINGLE POLE, DOUBLE THROW |
| EXST, (E) | EXISTING | SPST | SINGLE POLE, SINGLE THROW |
| °F | DEGREES FAHRENHEIT | SS | STAINLESS STEEL |
| FA | FIRE ALARM | STD | STANDARD |
| FC | FOOTCANDLE | SW | SWITCH |
| FLA | FULL LOAD AMPS | SWBD | SWITCHBOARD |
| FLEX | FLEXIBLE CONDUIT | TEL | TELEPHONE |
| GALV | GALVANIZED | TV | TELEVISION |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | TTB | TELECOMMUNICATIONS TERMINAL BOARD |
| GND | GROUND | TYP | TYPICAL |
| H-O-A | HAND - OFF - AUTO | UL | UNDERWRITERS LABORATORY |
| HP | HORSEPOWER | UF | UNDERFLOOR |
| HPF | HIGH POWER FACTOR | UG | UNDERGROUND |
| H & V | HEATING AND VENTILATION | V | VOLTS |
| HVAC | HEATING, VENTILATION & AIR CONDITIONING | VA | VOLT AMPERES |
| HZ | HERTZ | VAC | VOLTS ALTERNATING CURRENT |
| IDF | INTERMEDIATE DISTRIBUTION FRAME | VAR | REACTIVE VOLT AMPERES |
| J-BOX | JUNCTION BOX | VAV | VARIABLE AIR VOLUME |
| KV | KILOVOLTS | VD | VOLTAGE DROP |
| KVA | KILOVOLT AMPERES | VDC | VOLTS DIRECT CURRENT |
| KVAR | REACTIVE KILOVOLT AMPERES | VFD | VARIABLE FREQUENCY DRIVE |
| KW | KILOWATTS | VT | VAPORTIGHT |
| KWH | KILOWATT HOURS | W | WATTS |
| LT | LIGHT | WP | WEATHERPROOF |
| LTG | LIGHTING | /W | WITH |
| MAX | MAXIMUM | W/O | WITHOUT |
| MCA | MINIMUM CIRCUIT AMPS | XFER | TRANSFER |
| MCB | MAIN CIRCUIT BREAKER | XFMR | TRANSFORMER |
| MCC | MOTOR CONTROL CENTER | XLP | CROSS-LINKED POLYETHYLENE |
| MCM, KCM | THOUSAND CIRCULAR MILS | XP | EXPLOSION PROOF |
| MDF | MAIN DISTRIBUTION FRAME | Z | IMPEDANCE |
| MECH | MECHANICAL | | |

ELECTRICAL LEGEND

(SOME SYMBOLS MAY NOT BE USED ON DRAWINGS)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|------------|--|--------|--|
| | SCHEDULED EQUIPMENT CONNECTION (INCLUDE ALL WIRING, DISCONNECTING MEANS, CONTROL AND OTHER REQUIREMENTS SCHEDULED) | | DUPLEX RECEPTACLE (NEMA 5-20R) SUBSCRIPT: IG ISOLATED GROUND WC WATER COOLER REF REFRIGERATOR COP COPIER HWD HOT WATER DISPENSER MWO MICROWAVE OVEN P PEDESTAL WP WEATHERPROOF C CEILING DW DISHWASHER IWB INTERACTIVE WHITE BOARD TV VIDEO DISPLAY OUTLET. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING HEIGHT |
| | BUBBLE NOTE TAG SYMBOL: # - IDENTIFYING NUMBER | | RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH (1/2 OF OUTLET IS CONTROLLED WHERE SPLIT WIRED IS INDICATED) |
| 200-4-G | FEEDER CALLOUT X-Y-Z. SEE SCHEDULE. | | GFCI DUPLEX RECEPTACLE (NEMA 5-20R) SUBSCRIPT: REF REFRIGERATOR DW DISHWASHER WD WASTE DISPOSER MWO MICROWAVE OVEN |
| 200/150-3P | DEVICE SIZE / FUSE OR TRIP RATING - No. OF POLES | | ASTERISK INDICATES COUNTER HEIGHT OUTLET (DUPLEX RECEPTACLE SHOWN) |
| | SURFACE FIXTURE - ROUND | | RANGE RECEPTACLE (NEMA 14-50R) |
| | SURFACE FIXTURE - WALL | | OUTLET IN FLOOR BOX (DUPLEX RECEPTACLE SHOWN) |
| | EMERGENCY FIXTURE - TWIN HEAD | | JUNCTION BOX |
| | COMBINATION EXIT SIGN AND TWIN HEAD EMERGENCY LIGHTING UNIT | | TV WALL OUTLET WITH F CONNECTOR TAP |
| | SURFACE MOUNT FIXTURE WITH EMERGENCY LIGHTING UNIT | | DATA (COMPUTER) OUTLET WITH JACK |
| | WALL SURFACE MOUNT FIXTURE WITH EMERGENCY LIGHTING UNIT | | WIRELESS ACCESS POINT |
| | SINGLE POLE TOGGLE SWITCH | | CIRCUIT BREAKER |
| | DIGITAL SWITCH STATION | | DELTA CONNECTION |
| | SWITCH SUBSCRIPTS: 2 DOUBLE POLE 3 THREE WAY 4 FOUR WAY D DIMMER EP EXPLOSION PROOF K KEY OPERATED LV LOW VOLTAGE LVM LOW VOLTAGE MASTER M MANUAL MOTOR STARTER W/OVERLOADS MC MOMENTARY CONTACT SWITCH W/PILOT LIGHT P SWITCH W/PILOT LIGHT T TIMER WP WEATHERPROOF a, b, c MULTIGANG SWITCH STATION | | UTILITY COMPANY METER |
| | OCCUPANCY SENSOR - CEILING MOUNT | | GENERATOR |
| | OCCUPANCY SENSOR - WALL SWITCH | | CURRENT TRANSFORMER (CT) |
| | DIGITAL PLUG CONTROLLER | | GROUND ELECTRODE SYSTEM |
| | DIGITAL ROOM CONTROLLER | | PANELBOARD - SURFACE |
| | DAYLIGHT SENSOR | | CEILING MOUNTED SMOKE DETECTOR FIRST ALERT ULTIMATE PROTECTION MODEL #SA3210 OR SIMILAR |
| | | | CEILING MOUNTED COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR. FIRST ALERT, MODEL # SC07 OR SIMILAR |

NOTE:
STANDARD LINE WEIGHT INDICATES EXISTING CONDITIONS. _____
HEAVY LINE WEIGHT INDICATES NEW WORK. _____

OUTLET MOUNTING HEIGHTS

(MEASURE TO CENTER OF BOX, UNLESS OTHERWISE INDICATED)

| | | | |
|--------------------|------------------------|---------------------|---------------------------------|
| COUNTER HEIGHT (*) | +3 INCHES ABOVE SPLASH | FIRE ALARM | |
| CASEWORK OUTLETS | AS DIRECTED | MANUAL STATIONS | 48 INCHES TO TOP |
| SWITCHES & DIMMERS | 48 INCHES | SIGNALING DEVICES | 80 INCHES TO BOTTOM |
| RECEPTACLES | 18 INCHES | REMOTE ALARM LIGHTS | 80 INCHES TO BOTTOM |
| THERMOSTATS | 48 INCHES | REMOTE ANNUNCIATOR | 60 INCHES TO BOTTOM |
| OCCUPANCY SENSORS | 12 FEET MAXIMUM | GRAPHIC PLAQUES | 60 INCHES TO BOTTOM |
| VOICE (TELEPHONE) | 18 INCHES | | |
| DATA (COMPUTER) | 18 INCHES | SECURITY | |
| WALL PHONE | 48 INCHES | KEY PAD | 54 INCHES TO TOP |
| TV (TELEVISION) | 18 INCHES | CARD READER | 48 INCHES |
| TV WALL MOUNTED | CENTER OF TV BRACKET | CCTV | WITHIN 6 INCHES OF CAMERA MOUNT |
| SPEAKERS | 90 INCHES | CCTV POLE MOUNTED | 20 FEET |
| CLOCKS | 90 INCHES | | |
| CLOCK/SPEAKER | 90 INCHES | | |

GENERAL ELECTRICAL NOTES:

- SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED CONSTRUCTION.
- BRANCH CIRCUIT NOTES:
 - VERIFY BRANCH CIRCUIT WIRE COUNT BEFORE PULLING CONDUCTORS. PROVIDE REQUIRED CONDUCTORS TO EACH OUTLET AND DEVICE FOR PHASE, NEUTRAL AND EQUIPMENT GROUND BASED ON CIRCUIT DESIGNATIONS SHOWN AND AS OTHERWISE INDICATED ON PLANS OR NOTE BELOW.
 - FOR SWITCHED OUTLETS, PROVIDE ADDITIONAL CONDUCTOR COUNT REQUIRED FOR SWITCH LEGS TO ACCOMMODATE SWITCH CONTROL INDICATED. MAINTAIN UNSWITCHED LEG IN LIGHTING BRANCH CIRCUITS TO EXIT, EMERGENCY, AND NIGHT LIGHTING SHOWN.
 - MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE FOR OUTDOOR AND EXTERIOR BUILDING LIGHTING SHALL BE #10 AWG.
 - PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR BRANCH CIRCUITS SERVING RECEPTACLE OUTLETS UNLESS OTHERWISE INDICATED.
 - PROVIDE MANUFACTURER APPROVED PIN INSERT STYLE HANDLE TIES BETWEEN SINGLE POLE CIRCUIT BREAKERS SERVING BRANCH CIRCUITS SHARING A COMMON NEUTRAL.
- MINIMUM CONDUIT SIZE FOR HOMERUNS AND FOR CONDUIT INSTALLED BELOW GRADE OUTDOORS SHALL BE 3/4 INCH.
- REFER TO REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, ROOM SECTIONS, AND DETAILS SHOWN ON ARCHITECTURAL CONTRACT DOCUMENTS PRIOR TO ROUGH-IN. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
- REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
- VERIFY EXACT LOCATION OF FLOOR BOXES AND OUTLETS LOCATED IN KNEE SPACES AND CASEWORK. OBTAIN ARCHITECT APPROVAL PRIOR TO ROUGH-IN.
- VERIFY BACK BOX REQUIREMENTS OF EQUIPMENT FURNISHED UNDER OTHER THAN DIVISION 16 SECTIONS AND EQUIPMENT FURNISHED BY OWNER.
- SEE MECHANICAL PLANS FOR QUANTITY AND LOCATION OF SMOKE DAMPERS. PROVIDE 120 VOLT CONNECTION TO EACH DAMPER.



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SIGNED
14.15.20

LEWIS COUNTY FIRE DISTRICT #3
MOSSYROCK FIRE STATION
288 MOSSYROCK ROAD E | MOSSYROCK, WA 98564

Project No: 1927
CONSTRUCTION DOCUMENTS
MARCH 6, 2020

REVISION: DATE
1 - REVISION 1 6/11/2020

**LEGEND,
NOTES &
ABBREVIATIONS**

E-001

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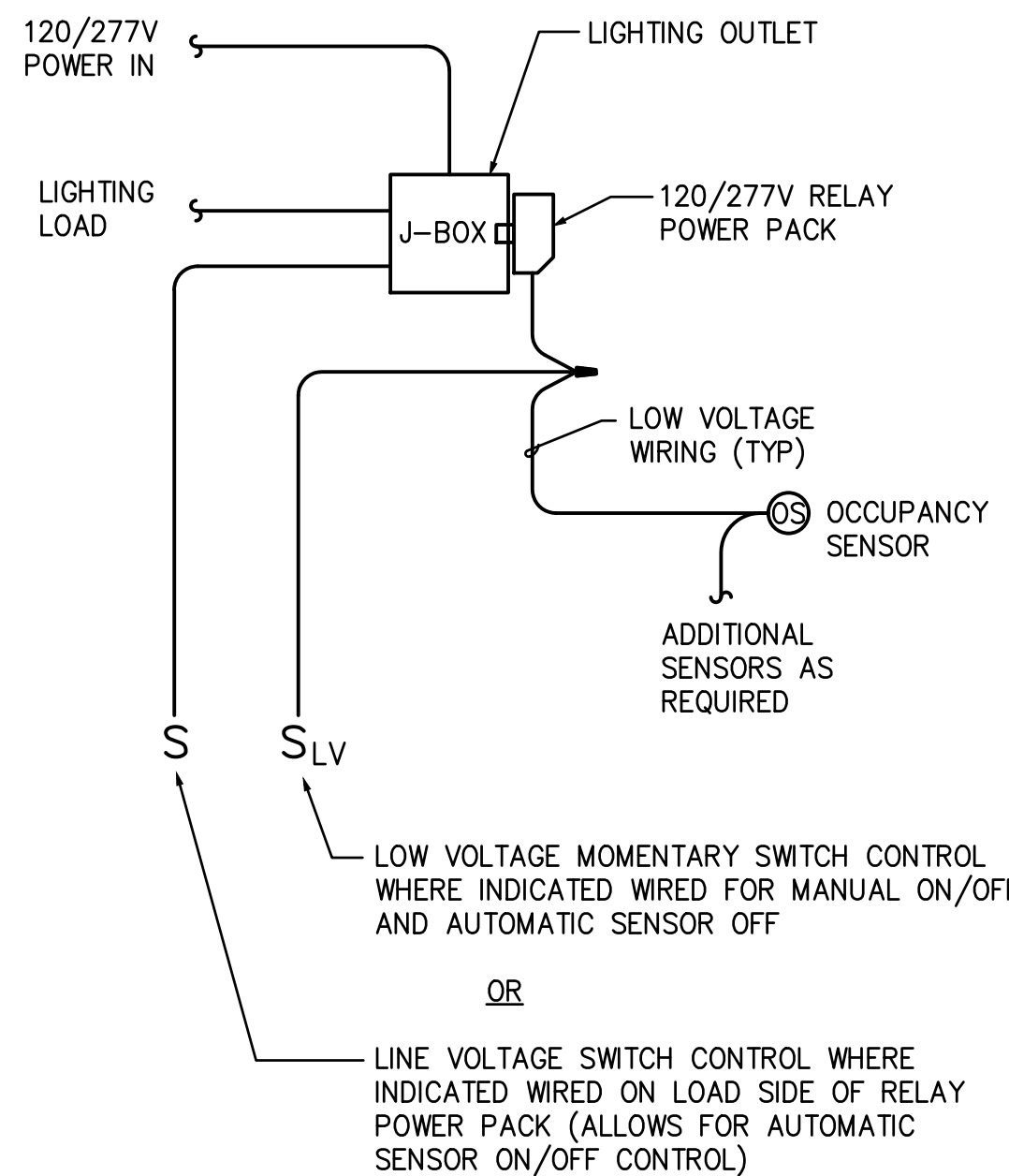
LIGHTING
PLAN

E-201

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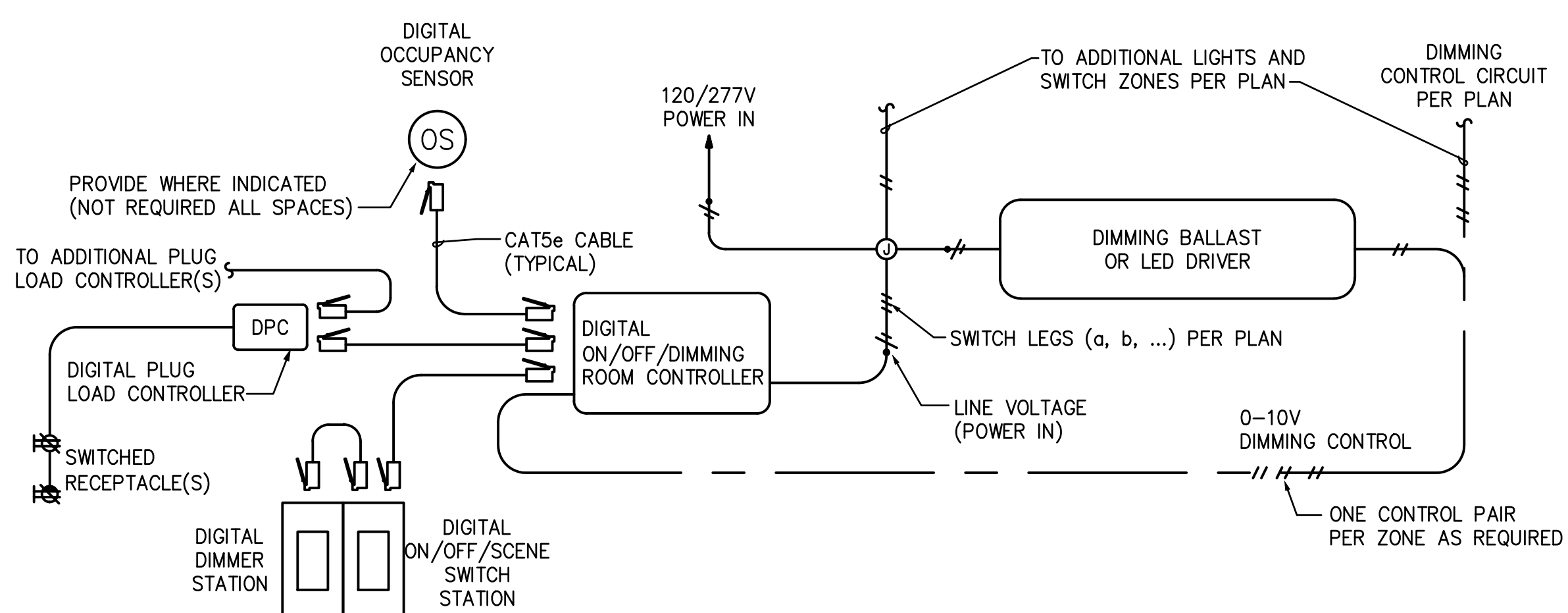
LIGHTING CONTROL NOTES

1. PROVIDE QUANTITY OF RELAY POWER PACKS, ROOM CONTROLLERS, AUTOMATIC SENSORS, AND INTERFACE ACCESSORIES REQUIRED FOR COMPLETE LIGHTING CONTROL SYSTEM BASED ON GENERAL AREA LIGHTING, DAYLIGHT ZONES, AND MANUAL SWITCH CONTROL INDICATED ON PLANS. ROOMS AND BUILDING SPACES WHERE OCCUPANCY SENSORS ARE NOT INDICATED SHALL BE CONNECTED FOR AUTOMATIC TIME SWITCH CONTROL AS SCHEDULED.
2. WHERE OCCUPANCY SENSORS ARE INDICATED, PROVIDE ONE OR MORE SENSORS AS REQUIRED FOR FULL AREA COVERAGE. LOCATE OCCUPANCY SENSORS IN ROOM TO MINIMIZE FALSE ACTIVATION THROUGH OPEN DOORS.
3. INSTALL ROOM CONTROLLERS IN ACCESSIBLE CEILING OR ATTIC SPACES AND WITHIN 6 FEET OF FIRST LIGHTING OUTLET SERVING LIGHTS TO BE CONTROLLED UNLESS OTHERWISE INDICATED.
4. INSTALL RELAY POWER PACK ON BOX OF FIRST LIGHTING OUTLET ABOVE ACCESSIBLE CEILINGS. FOR INACCESSIBLE CEILING SPACES, INSTALL RELAY POWER PACK IN COMMON OUTLET BOX WITH CEILING. PROVIDE EXTENDED BOX DEPTH WITH SUITABLE TRIM AND INSTALLATION TO COMPLY WITH NEC 725.136 REQUIREMENTS FOR LINE VOLTAGE/CLASS 2 CIRCUIT SEPARATION USING DIVIDER AND/OR MINIMUM CONDUCTOR SPACE SEPARATION.
5. LOCATE AND AIM DAYLIGHT SENSORS PER SYSTEM MANUFACTURER RECOMMENDATIONS.
6. PROGRAM ROOM CONTROLLERS FOR SEPARATE ON/OFF MANUAL CONTROL OF ROOM LIGHTS PER PLAN (a, b, ...) AND MASTER DIMM CONTROL UNLESS OTHERWISE DIRECTED BY OWNER.
7. PROGRAM ROOM CONTROLLERS FOR AUTOMATIC CONTROL OF ROOM LIGHTS AS FOLLOWS: OCCUPANCY SENSOR(S) AUTOMATIC OFF UNLESS OTHERWISE SCHEDULED. DAYLIGHT SENSOR(S) SEPARATE AUTOMATIC DIM OF PRIMARY AND SECONDARY DAYLIGHT ZONES. DAYLIGHT RESPONSIVE CONTROLS SHALL BE CONFIGURED TO COMPLETELY SHUT OFF ALL CONTROLLED LIGHTS IN THAT ZONE.
8. PROGRAM DIGITAL RECEPTACLE PLUG CONTROLLER(S) FOR OCCUPANCY SENSOR AUTOMATIC OFF UNLESS OTHERWISE INDICATED.
9. PROVIDE DIGITAL WALL SWITCH STATIONS WITH A PUSHBUTTON FOR EACH CONTROL CIRCUIT INDICATED (a, b, c ...) PLUS A LABELED 'ALL OFF' PUSHBUTTON AND LABELED DIMMING CONTROL SWITCH, UNLESS OTHERWISE INDICATED.
10. LOW VOLTAGE WIRING SHALL BE INSTALLED IN 3/4" DIAMETER CONDUIT EXCEPT OPEN CABLING MAY BE INSTALLED ABOVE ACCESSIBLE CEILINGS AND IN ATTIC SPACES UNLESS OTHERWISE INDICATED ON PLANS.



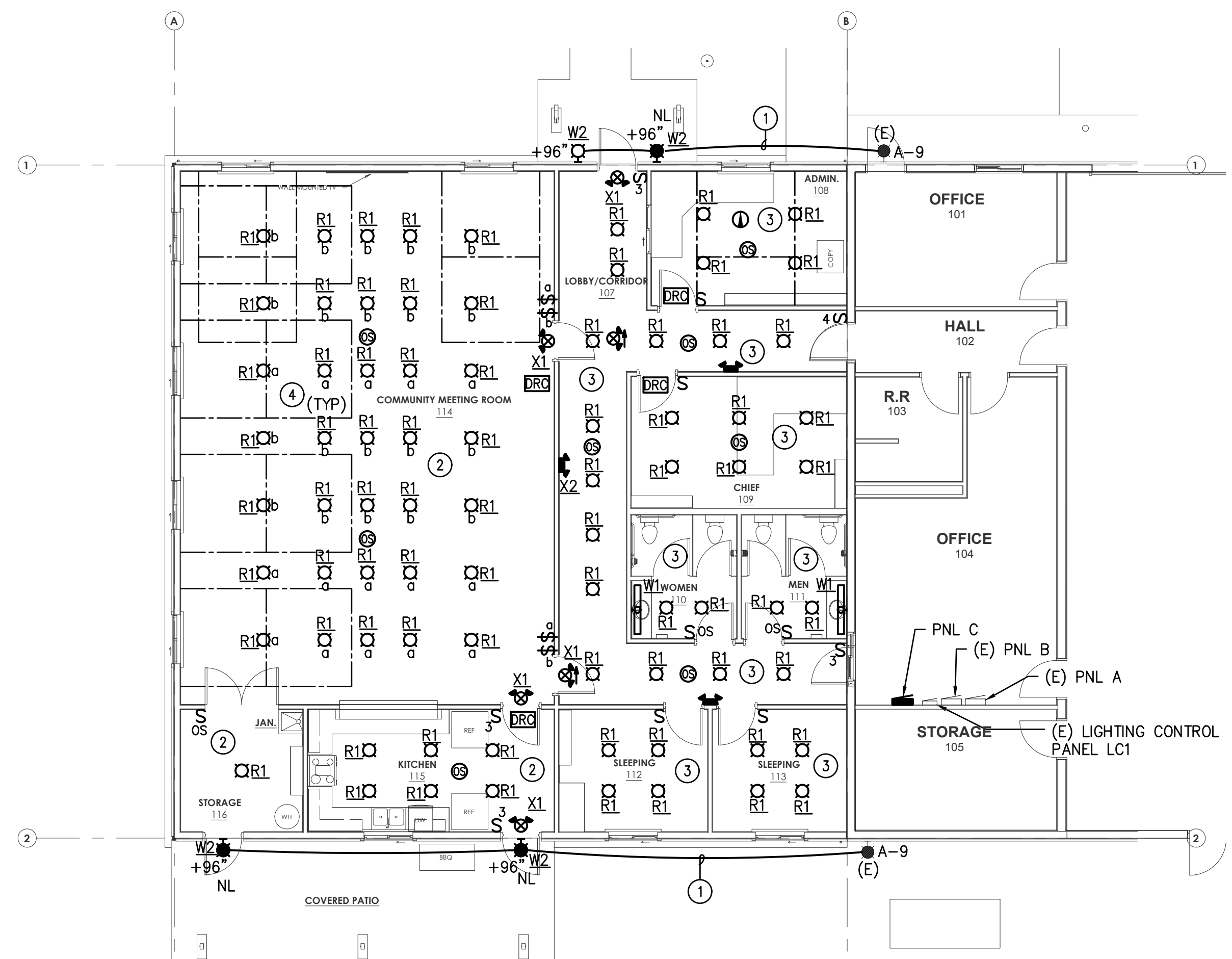
LIGHTING CONTROL - ROOM OCCUPANCY SENSOR

SCALE: NTS



DIGITAL LIGHTING CONTROL DIAGRAM - DAYLIGHT ZONES/OCCUPANCY SENSOR

SCALE: NTS



LIGHTING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. EXTEND WIRE/CONDUIT TO EXISTING EXTERIOR FIXTURE.
2. LIGHTING CIRCUIT # C-1.
3. LIGHTING CIRCUIT # C-3.
4. PER WSEC C405.2.4.1 DAYLIGHT RESPONSIVE CONTROLS NOT REQUIRED WITH TWO OR LESS FIXTURES IN PRIMARY AND SECONDARY ZONES.

LOW VOLTAGE RELAY SCHEDULE

| RELAY NO. | CKT NO. | LOAD DESCRIPTION | CONTROL GROUP | TIME SW CIRCUIT | OS OVERRIDE | MANUAL OVERRIDE | REMARKS |
|-----------|---------|-------------------------|---------------|-----------------|-------------|-----------------|---------|
| 1 | A-9 | OUTDOOR NIGHT LIGHTS | A | | | a | |
| 2 | A-9 | OUTDOOR SWITCHED LIGHTS | B | 1 | | b | |
| 3 | | SIGN | C | 2 | | c | |
| 4 | | SPARE | | | | | |

ENCLOSURE: SURFACE

CONTROL GROUPS:
 A NIGHT CIRCUIT (PC ON, PC OFF)
 B OUTDOOR SWITCHED CIRCUIT (PC ON, TIME SWITCH OFF)
 C SIGN CIRCUIT (TIME SWITCH ON, TIME SWITCH OFF)
 D INDOOR SWITCHED CIRCUIT (MANUAL ON, TIME SWITCH OFF)

NOTES:
 1. MASTER CONTROLLER TO INTERFACE WITH ENERGY MANGEMENT SYSTEM TIME SWITCH.

INTERIOR LIGHTING AND RECEPTACLE CONTROL SCHEDULE

| ROOM # | ROOM NAME | MANUAL CONTROL | | | | OCCUPANCY CONTROL | | | | | | | REMARKS | |
|--------|----------------|-----------------|----------------|-----------|----------|-----------------------|-----------|------------------|----------------|----------------|-------------------|---------------------|---------|-----------------------|
| | | LINE VOLTAGE SW | LOW VOLTAGE SW | DIMMER SW | SCENE SW | 50% TIME SW REDUCTION | MANUAL ON | AUTO ON (NOTE 1) | WALL SW SENSOR | CEILING SENSOR | LT FIXTURE SENSOR | TIME SW RELAY PANEL | | 50% RECEPT LOAD CNTRL |
| 107 | LOBBY/CORRIDOR | X | | | | | X | | X | | | | | |
| 108 | ADMIN | X | | | | | X | | X | | | | | |
| 109 | CHIEF | X | | | | | X | | X | | | | X | |
| 110 | WOMEN R.R. | | | X | | | X | X | | | | | | |
| 111 | MEN R.R. | X | | | | | X | X | | | | | | |
| 112 | SLEEPING | X | | | | | | | | | | | | |
| 113 | SLEEPING | X | | | | | | | | | | | | |
| 114 | MEETING RM | X | | | | | X | | X | | | | | |
| 115 | KITCHEN | X | | | | | X | | X | | | | | |
| 116 | STORAGE | | | | | | X | X | | | | | | |

- NOTES:
1. PROVIDE AUTOMATIC ON CONTROL UNDER WSEC C405.2.1.1 EXCEPTION.
 2. SEE LOW VOLTAGE RELAY SCHEDULE AND RISER DIAGRAM FOR TIME SWITCH OCCUPANCY CONTROL
 3. PROVIDE 50% REDUCTION IN AISLE WAYS OF OPEN WAREHOUSE.
 4. SECURITY AND/OR SAFETY EXCEPTION TO WSEC LIGHTING CONTROLS

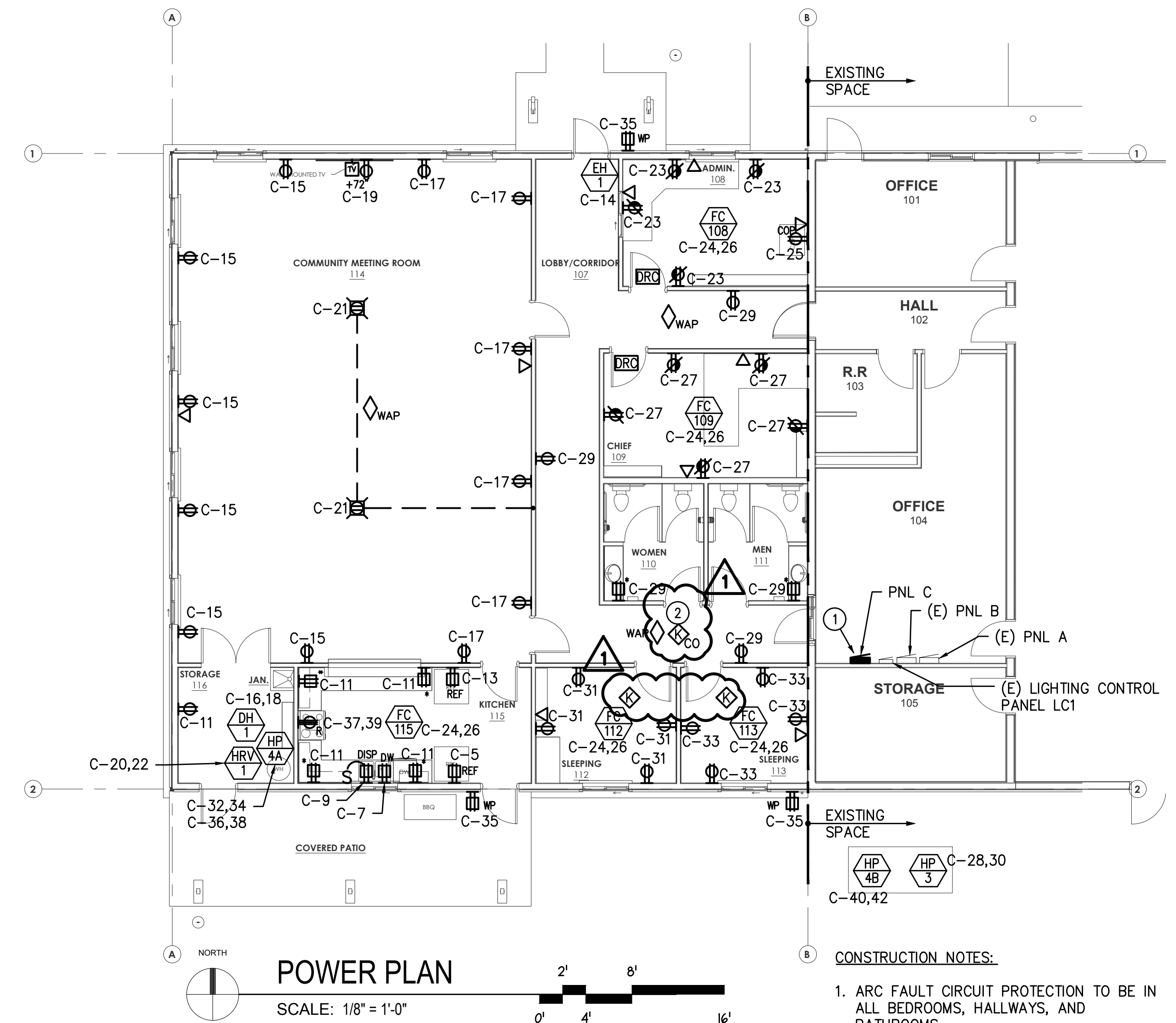
LUMINAIRE SCHEDULE

| TYPE | DESCRIPTION | MANUFACTURER | LAMP | VOLTAGE | INPUT WATTS | BALLAST/ DRIVER | REMARKS |
|------|---|--|-----------------------|---------|-------------|----------------------------|---|
| R1 | 6" ROUND FLUSH-MOUNTED DOWNLIGHT WITH THICK CEILING WHITE TRIM. | PATHWAY LIGHTING CALIBER COMMERCIAL 6TCVL SERIES | LED 3500K 2000 LUMEN | UNV | 21 | LOW VOLTAGE DIMMING DRIVER | |
| W1 | 4", WALL MOUNT, LENSED VANITYLIGHT, CSA LISTED DAMP LOCATION | COLUMBIA CWM SERIES | LED 3500K 4200 LUMENS | UNV | 32 | | |
| W2 | WALL MOUNT, COMPACT LED FIXTURE, TYPE 3 DISTRIBUTION, UL LISTED WET LOCATION, STANDARD FINISH AS SELECTED | HUBBEL LNC2 SERIES | LED 4000K 2662 LUMENS | UNV | 28 | LOW VOLTAGE DIMMING DRIVER | PROVIDE INTEGRAL EMERGENCY BATTERY PACK |
| X1 | UNIVERSAL MOUNT, GREEN LED EMERGENCY EXIT SIGN WITH TWIN HEAD LIGHTING UNIT | DUAL-LIGHT HCX SERIES | GREEN LED | UNV | 2 | | DIRECTIONAL ARROW AS REQUIRED |
| X2 | SURFACE MOUNTED EMERGENCY TWIN HEAD LIGHTING UNIT | DUAL-LIGHT EV SERIES | LED | UNV | <5W | | |

| Panel 'C' (NEW) | | | | | | | | | | | |
|--|--------------------------------------|-----------|-----------|-------------|-----------------------|-----|-------------|------------|-----------|------------------------|----|
| 120/240V, 1Ph, 3W.; 400A Bus with Main Lug Only Surface Mounted Panelboard with a minimum fault current rating of 22,000 AIC | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA) | Type | C.B. A/Pole | Note | Ph. | C.B. A/Pole | Note | Load (VA) | Ckt. No. | |
| 1 | LTG - MEETING, STOR., KITCHEN | 882 | L | 20/1 | | A | | | | 2 | |
| 3 | LTG - ADMIN, CHIEF, HALL, R.R, SLEE; | 756 | L | 20/1 | | B | | | | 4 | |
| 5 | REC - KITCHEN REF | 650 | K | 20/1 | | A | | | | 6 | |
| 7 | REC - KITCHEN DW | 1,500 | K | 20/1 | | B | | | | 8 | |
| 9 | REC - KITCHEN DISP | 750 | K | 20/1 | | A | | | | 10 | |
| 11 | REC - KICHEN, STOR | 900 | R | 20/1 | | B | | | | 12 | |
| 13 | REC - KITCHEN REF | 650 | K | 20/1 | | A | 20/1 | 1,000 | H | EH-1 | 14 |
| 15 | REC - MEETING RM | 1,080 | R | 20/1 | | B | 20/2 | 1,250 | H | DH-1 | 16 |
| 17 | REC - MEETING RM | 1,080 | R | 20/1 | | A | - | 1,250 | H | - | 18 |
| 19 | REC - MEETING RM TV | 750 | G | 20/1 | | B | 15/2 | 288 | M | HRV-1 | 20 |
| 21 | REC - MEETING RM | 360 | R | 20/1 | | A | - | 288 | M | - | 22 |
| 23 | REC - ADMIN | 720 | R | 20/1 | | B | 15/2 | 132 | M | FC-108,109,112,113,115 | 24 |
| 25 | REC - ADMIN COPY | 1,200 | R | 20/1 | | A | - | 132 | M | - | 26 |
| 27 | REC - CHIEF | 900 | R | 20/1 | 1 | B | 30/2 | 1,596 | M | HP-3 | 28 |
| 29 | REC - HALL R.R. | 900 | R | 20/1 | 1 | A | - | 1,596 | M | - | 30 |
| 31 | REC - SLEEPING | 720 | R | 20/1 | 1 | B | 60/2 | 5,004 | H | HP-4A | 32 |
| 33 | REC - SLEEPING | 720 | R | 20/1 | | A | - | 5,004 | H | - | 34 |
| 35 | REC - OUTSIDE | 540 | R | 20/1 | | B | 60/2 | 5,544 | H | HP-4A | 36 |
| 37 | REC - KITCHEN RANGE | 4,000 | K | 40/2 | | A | - | 5,544 | H | - | 38 |
| 39 | - | 4,000 | K | - | | B | 30/2 | 1,032 | M | HP-4B | 40 |
| 41 | - | - | - | - | | A | - | 1,032 | M | - | 42 |
| Connected Load: | | Ph. A | 27,038 VA | 225 Amps | Panel Connected Load: | | 53.8 KVA | 224.0 Amps | | | |
| Connected Load: | | Ph. B | 26,712 VA | 223 Amps | Total Demand Load: | | 51.5 KVA | 214.6 Amps | | | |

| Notes: | Accessories: |
|---------------------------------------|--------------|
| 1. PROVIDE ARC-FAULT CIRCUIT BREAKER. | |

| Load Description | Connected Loads | Subfed Loads (S) | Total Loads | Demand Factor | Demand Load |
|----------------------------|-----------------|------------------|-------------|---------------|--------------------|
| G General (Non-Continuous) | 0.75 | 0.00 | 0.75 | 100% | 0.75 (KVA Typical) |
| L Lighting | 1.64 | 0.00 | 1.64 | 125% | 2.05 |
| R Receptacles - to 10 KVA | 9.12 | 0.00 | 9.12 | 100% | 9.12 |
| over 10 KVA | | | | | |
| K Kitchen | 11.55 | 0.00 | 11.55 | 50% | 0.00 |
| H Heating | 24.60 | 0.00 | 24.60 | 70% | 8.09 |
| M Motors | 2.90 | 0.00 | 2.90 | 100% | 2.90 |
| LM Largest Motor | 3.19 | 0.00 | 3.19 | 125% | 3.99 |
| WH Water Heater | 0.00 | 0.00 | 0.00 | 125% | 0.00 |
| C Continuous General Load | 0.00 | 0.00 | 0.00 | 125% | 0.00 |
| Total: | | | | | 51.49 KVA |



CONSTRUCTION NOTES:
 1. ARC FAULT CIRCUIT PROTECTION TO BE IN ALL BEDROOMS, HALLWAYS, AND BATHROOMS.

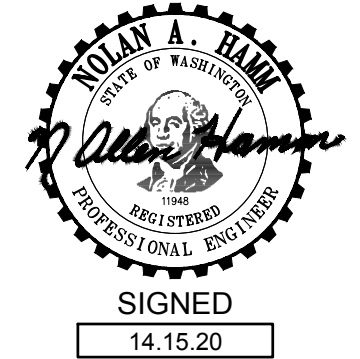
PLAN NOTES:
 ① PROVIDE NEW PANEL. SEE ONE-LINE DIAGRAM FOR MORE INFORMATION.
 ② CENTER COMBINATION SMOKE/CARBON MONOXIDE DETECTOR BETWEEN DOORS.

| MECHANICAL EQUIPMENT CONNECTION SCHEDULE | | | | | | | | | | | | | | |
|--|------------------------|--------------|-----------------|------|------|-----|-------|-----------------------|----------|------------|-----------------|-------------|---------|---------|
| NAME | DESCRIPTION | LOCATION | MAXIMUM RATINGS | | | | | (CU) FEEDER | CIRCUIT# | DISCONNECT | | CONTROLS | | REMARKS |
| | | | HP | KVA | FLA | MCA | MOC/P | | | VOLT/PH | BY | DESCRIPTION | STARTER | |
| HP-3 | OUTDOOR HEAT PUMP | OUTDOOR | 3.06 | 13.3 | 29.0 | 30 | 230 1 | 3/4" C-2#10 + #10 GND | | • | 60A 2P FUSED WP | | | |
| HP-4A | SPLIT SYSTEM HEAT PUMP | INDOOR | 9.59 | 41.7 | 52.1 | 60 | 230 1 | 3/4" C-2#6 + #10 GND | | • | 60A 2P | | | |
| HP-4B | SPLIT SYSTEM HEAT PUMP | OUTDOOR | 10.63 | 46.2 | 57.8 | 60 | 230 1 | 3/4" C-2#6 + #10 GND | | • | 60A 2P | | | |
| FC-108 | CEILING CASSETTE | ADMIN 108 | 1.99 | 8.6 | 25.0 | 30 | 230 1 | 3/4" C-2#10 + #10 GND | | • | 30A 2P FUSED WP | | | |
| FC-109 | CEILING CASSETTE | CHIEF 109 | 0.06 | 0.2 | 0.3 | 15 | 230 1 | | | • | TOGGLE | | | |
| FC-112 | CEILING CASSETTE | SLEEPING 112 | 0.06 | 0.2 | 0.3 | 15 | 230 1 | | | • | TOGGLE | | | |
| FC-113 | CEILING CASSETTE | SLEEPING 113 | 0.06 | 0.2 | 0.3 | 15 | 230 1 | | | • | TOGGLE | | | |
| FC-115 | CEILING CASSETTE | KITCHEN 115 | 0.07 | 0.3 | 0.4 | 15 | 230 1 | | | • | TOGGLE | | | |
| HRV-1 | DOAS HEAT RECOVERY | JAN | 0.27 | 1.2 | 2.0 | 15 | 230 1 | | | • | TOGGLE | | | |
| DH-1 | DUCT HEATER | JAN | 2.50 | 10.4 | 13.0 | 240 | 1 | | | • | TOGGLE | | | |
| EH-1 | WALL HEATER | HALL | 1.00 | 8.3 | 10.4 | 120 | 1 | | | • | TOGGLE | | | |
| | | | | | | | | | | X | INTEGRAL | | | |

- EQUIPMENT CONNECTION SCHEDULE NOTES:**
- VERIFY VOLTAGE, PHASE, FLA/MCA OF EACH CONNECTION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. NOTIFY ARCHITECT/ENGINEER WHEN SCHEDULED SUPPLY WILL NOT MEET NEC REQUIREMENTS.
 - OUTLETS, DISCONNECTS, CONTROLLERS, AND EQUIPMENT CONNECTIONS FOR ROOF TOP AND OTHER OUTDOOR EQUIPMENT SHALL BE WEATHER PROOF.
 - LOCATION OF OUTLETS, DISCONNECTS, CONTROL DEVICES, AND EQUIPMENT CONNECTIONS ARE DIAGRAMMATIC AND TO BE LOCATED IN FIELD BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. UNLESS OTHERWISE INDICATED ON PLANS, INSTALL SCHEDULED DISCONNECTS AND CONTROL DEVICES IN SIGHT OF EQUIPMENT. ARRANGE WIRING AND EQUIPMENT TO AVOID INTERFERENCE WITH OTHER WORK AND TO MAXIMIZE ACCESSIBILITY FOR MAINTENANCE AND REPAIRS.
 - COORDINATE WITH THE OTHER INSTALLING CONTRACTORS TO ENSURE NEC REQUIRED ACCESS TO DISCONNECTS IS PROVIDED FOR EACH PIECE OF EQUIPMENT.
 - PROVIDE SMOKE DUCT DETECTORS IN HEATING AND COOLING SYSTEMS PER INTERNATIONAL MECHANICAL CODE. SEE DIVISION 25 EQUIPMENT SCHEDULES FOR ADDITIONAL UNITS RATED OVER 2000 CFM AND PROVIDE DUCT DETECTOR AS REQUIRED.
 - WIRING BETWEEN EQUIPMENT DISCONNECT AND POINT OF CONNECTION SHALL COMPLY WITH NEC BASED ON EQUIPMENT NAMEPLATE RATING EXCEPT MINIMUM BRANCH CIRCUIT RATING SHALL BE 20 AMPERES.
 - SIZE OF DISCONNECT SWITCH AND MOTOR STARTER SHALL BE SIZED TO COMPLY WITH NEC REQUIREMENTS. WHERE INDICATED MOTOR CONTROL IS NOT LOCATED IN SIGHT OF MOTOR AS DEFINED BY NEC, PROVIDE ADDITIONAL DISCONNECTING MEANS TO COMPLY WITH NEC 430.102.
 - WIRING SIZES ARE BASED ON 60 DEGREE C. FOR AMPACITIES 100 AMPERES AND LESS. FOR FEEDERS LESS THAN 100 FEET IN LENGTH, CONDUCTOR SIZES MAY BE SELECTED BASED ON 75 DEGREE C. WHERE EQUIPMENT INSTALLED IS LABELED FOR 75 DEGREE C. WIRING.
 - SCHEDULE LEGEND:
 - = FURNISH AND INSTALL NEW UNDER DIVISION 26
 - = INSTALL UNDER DIVISION 26; FURNISHED WITH EQUIPMENT OR BY OTHERS.
 - X = FURNISH AND INSTALL BY OTHERS (NOT DIVISION 26)
 - * = EXISTING, RELOCATED EQUIPMENT



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LEWIS COUNTY FIRE DISTRICT #3
 MOSSYROCK FIRE STATION
 288 MOSSYROCK ROAD E | MOSSYROCK, WA 98564

Project No: 1927
CONSTRUCTION DOCUMENTS
 MARCH 6, 2020

REVISION: DATE
 1 - REVISION 1 6/11/2020

POWER PLAN

E-301

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SIGNED
14.15.20

LEWIS COUNTY FIRE DISTRICT #3
MOSSYROCK FIRE STATION
238 MOSSYROCK ROAD E | MOSSYROCK, WA 98564

Project No: 1927
CONSTRUCTION DOCUMENTS
MARCH 6, 2020

REVISION: DATE
1 - REVISION 1 6/11/2020

SCHEDULES
&
ONE-LINE

E-501

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| ATS (REVISED) | | Available Fault: | | |
|------------------------------|------------------------|------------------|------------------|-------------------|
| No. | Description / Location | Note | Load (VA) | Load Type |
| 1 | Panel 'A' (EX) | | 10,699 | S |
| - | | | 8,986 | S |
| 2 | Panel 'B' (REVISED) | | 30,722 | S |
| - | | | 28,697 | S |
| Total Connected Load: Ph A | | | 41,421 VA | 345 Amps |
| Total Connected Load: Ph B | | | 37,683 VA | 314 Amps |
| Total Connected Load: | | | 79.1 KVA | 329.6 Amps |
| Total Demand Load: | | | 130.4 KVA | 543.3 Amps |

| Load Type | Load Description | Connected Loads | Subd Loads (S) | Total Loads | Demand Factor | Demand Load |
|---------------|--------------------------|-----------------|----------------|-------------|---------------|-------------------|
| G | General (Non-Continuous) | 0.00 | 18.48 | 18.48 | 100% | 18.48 KVA |
| L | Lighting | 0.00 | 5.60 | 5.60 | 125% | 7.00 KVA |
| R | Receptacles - to 10 KVA | 0.00 | 15.40 | 10.00 | 100% | 10.00 KVA |
| | over 10 KVA | | 2.00 | 7.40 | 50% | 3.70 KVA |
| K | Kitchen | 0.00 | 11.55 | 11.55 | 70% | 8.09 KVA |
| H | Heating | 0.00 | 34.20 | 34.20 | 100% | 34.20 KVA |
| M | Motors | 0.00 | 32.40 | 32.40 | 100% | 32.40 KVA |
| LM | Largest Motor | 0.00 | 11.44 | 11.44 | 125% | 14.30 KVA |
| WH | Water Heater | 0.00 | 1.80 | 1.80 | 125% | 2.25 KVA |
| C | Continuous General Load | 0.00 | 0.00 | 0.00 | 125% | 0.00 KVA |
| Total: | | | | | | 130.40 KVA |

| Panel 'A' (EX) | | | | | | | | | | |
|--|-------------------------------------|-----------|-------------|------|-----|------|-------------|-----------|--------------------------------------|----------|
| 120/240V, 1Ph, 3W.; 225A Bus with 225A Main Circuit Breaker Surface Mounted Panelboard with a minimum fault current rating of 22,000 AIC | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA) | C.B. A/Pole | Note | Ph. | Note | C.B. A/Pole | Load (VA) | Description / Location | Ckt. No. |
| 1 | SPARE | | 20/1 | | A | | 20/1 | 1,080 | RECP - OFFICE 101 | 2 |
| 3 | LTG - RM 101 TO 105 | 897 | L | | B | | 20/1 | 720 | RECP - HALL 102, RR 103, OUTSIDE | 4 |
| 5 | LTG - APPARATUS 106 | 1,176 | L | | A | | 20/1 | 720 | RECP - OFFICE 104 | 6 |
| 7 | LTG - APPARATUS 106 | 784 | L | | B | | 20/1 | 720 | RECP - OFFICE 104 | 8 |
| 9 | LTG - BUILDING EXTERIOR, SITE | 563 | L | | A | | 20/1 | 360 | RECP - STORAGE 105 | 10 |
| 11 | LTG - STORAGE 100 (ALTERNATE NO. 1) | 540 | L | | B | | 20/1 | 360 | RECP - STOR. 105 TTB | 12 |
| 13 | SPARE | | 20/1 | | A | | 20/1 | 360 | RECP - STOR. 105 RADIO | 14 |
| 15 | SPARE | | 20/1 | | B | | 20/1 | 360 | RECP - STORAGE 105 RADIO/SCANNER | 16 |
| 17 | SPARE | | 20/1 | | A | | 20/1 | 540 | RECP - STORAGE 100 (ALTERNATE NO. 1) | 18 |
| 19 | SPARE | | 20/1 | | B | | 20/1 | | SPARE | 20 |
| 21 | SPARE | | 20/1 | | A | | 20/1 | | SPARE | 22 |
| 23 | SPARE | | 20/1 | | B | | 20/1 | | SPARE | 24 |
| 25 | SPARE | | 20/1 | | A | | 20/1 | | SPARE | 26 |
| 27 | FAC | 300 | G | | B | | 20/1 | 125 | M CP-1 | 28 |
| 29 | LIGHTING CONTROL PANEL LC1 | 100 | G | | A | | 20/1 | 1,800 | WH-1 | 30 |
| 31 | SPARE | | 20/1 | | B | | 20/1 | 1,500 | G RECP - APPARATUS 106 WASHER | 32 |
| 33 | BLOCK HEATER - GENERATOR | 1,500 | G | | A | | 30/2 | 2,500 | G APPARATUS 106 DRYER | 34 |
| 35 | RECP - GENERATOR BATT CHARGER | 180 | R | | B | | - | 2,500 | G - | 36 |
| 37 | SPARE | | | | A | | | | SPACE | 38 |
| 39 | SPARE | | | | B | | | | SPACE | 40 |
| 41 | SPARE | | | | A | | | | SPACE | 42 |

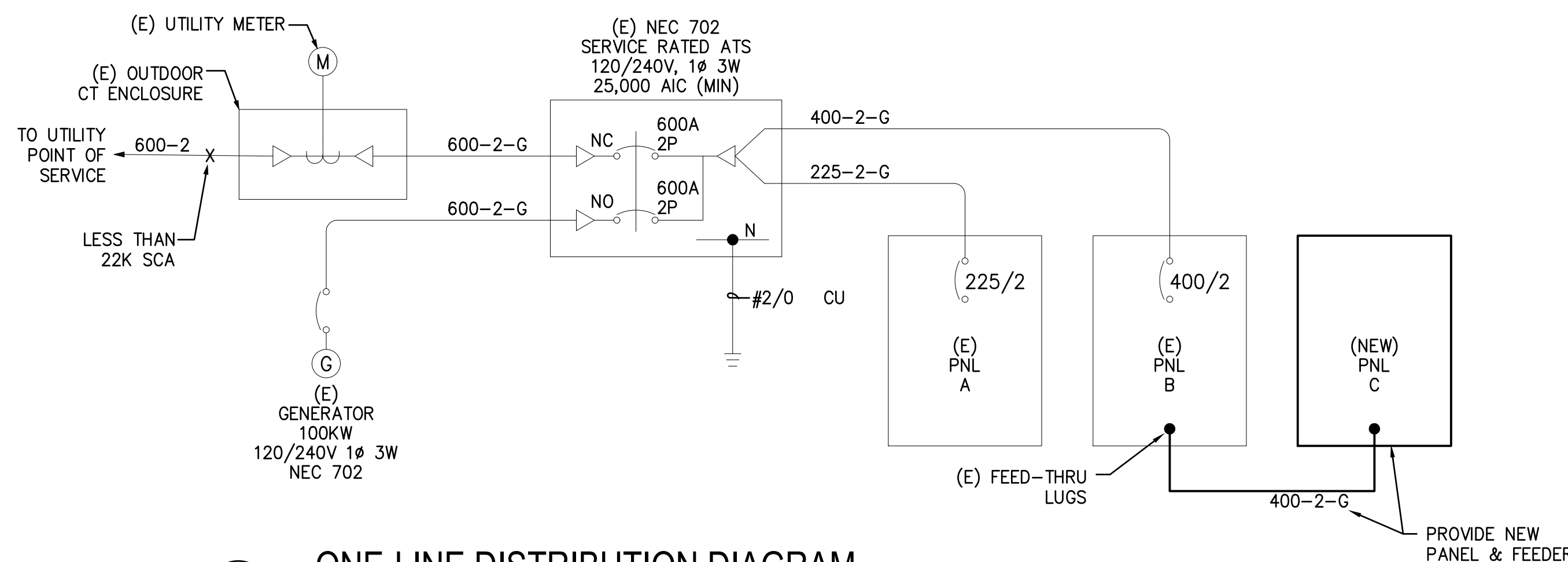
| Connected Load: | Ph. A | 10,699 VA | 89 Amps | Panel Connected Load: | 19.7 KVA | 82.0 Amps |
|-----------------|-------|-----------|---------|---------------------------|-----------------|------------------|
| Connected Load: | Ph. B | 8,986 VA | 75 Amps | Total Demand Load: | 21.2 KVA | 88.2 Amps |

| Load Type | Load Description | Connected Loads | Subd Loads (S) | Total Loads | Demand Factor | Demand Load |
|---------------|--------------------------|-----------------|----------------|-------------|---------------|--------------------|
| G | General (Non-Continuous) | 8.40 | 0.00 | 8.40 | 100% | 8.40 (KVA Typical) |
| L | Lighting | 3.96 | 0.00 | 3.96 | 125% | 4.95 |
| R | Receptacles - to 10 KVA | 5.40 | 0.00 | 5.40 | 100% | 5.40 |
| | over 10 KVA | | 0.00 | 0.00 | 50% | 0.00 |
| K | Kitchen | 0.00 | 0.00 | 0.00 | 100% | 0.00 |
| H | Heating | 0.00 | 0.00 | 0.00 | 100% | 0.00 |
| M | Motors | 0.00 | 0.00 | 0.00 | 100% | 0.00 |
| LM | Largest Motor | 0.13 | 0.00 | 0.13 | 125% | 0.16 |
| WH | Water Heater | 1.80 | 0.00 | 1.80 | 125% | 2.25 |
| C | Continuous General Load | 0.00 | 0.00 | 0.00 | 125% | 0.00 |
| Total: | | | | | | 21.16 KVA |

| Panel 'B' (REVISED) | | | | | | | | | | | |
|--|--------------------------------|-----------|-------------|------|------|------|-------------|-----------|------------------------|----------------------------------|----|
| 120/240V, 1Ph, 3W.; 400A Bus with 400A Main Circuit Breaker Surface Mounted Panelboard with a minimum fault current rating of 22,000 AIC | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA) | C.B. A/Pole | Note | Ph. | Note | C.B. A/Pole | Load (VA) | Description / Location | Ckt. No. | |
| 1 | RECP - APPARATUS BAY CORD REAL | 180 | R | | 20/1 | | A | 20/1 | 720 | R RECP - APPARATUS NORTH | 2 |
| 3 | RECP - APPARATUS BAY CORD REAL | 180 | R | | 20/1 | | B | 20/1 | 825 | G RECP - APPARATUS EAST & EF-4 | 4 |
| 5 | RECP - APPARATUS BAY CORD REAL | 180 | R | | 20/1 | | A | 20/1 | 540 | R RECP - APPARATUS SOUTH | 6 |
| 7 | RECP - APPARATUS BAY CORD REAL | 180 | R | | 20/1 | | B | 60/2 | 4,250 | G RECP - APPARATUS, WELDER | 8 |
| 9 | APPARATUS BAY ROLL-UP DOOR | 1,660 | M | | 20/1 | | A | - | 4,250 | G - | 10 |
| 11 | APPARATUS BAY ROLL-UP DOOR | 1,660 | M | | 20/1 | | B | 20/1 | 1,660 | M EF-1 | 12 |
| 13 | APPARATUS BAY ROLL-UP DOOR | 1,660 | M | | 20/1 | | A | 20/2 | 1,000 | H EH-2 | 14 |
| 15 | APPARATUS BAY ROLL-UP DOOR | 1,660 | M | | 20/1 | | B | | 1,000 | H | 16 |
| 17 | RH-1, 2, 3 | 1,800 | H | | 20/1 | | A | 20/1 | 1,800 | H RH-4, 5, 6 | 18 |
| 19 | DH-1 | 1,250 | H | | 20/2 | | B | 20/1 | 890 | M SF-1, EF-2 & EF-3 | 20 |
| 21 | | 1,250 | H | | - | | A | 20/1 | | | 22 |
| 23 | EH-1 | 750 | H | | 15/1 | | B | 20/1 | | | 24 |
| 25 | SPARE | 750 | H | | 20/1 | | A | | | | 26 |
| 27 | HP-2 | 900 | M | | 20/2 | | B | - | 817 | M - | 28 |
| 29 | | 900 | M | | - | | A | 90/2 | 5,720 | LM BREATHE AIRE COMP | 30 |
| 31 | A IR COMP | 4,025 | M | | 80/2 | | B | - | 5,720 | LM - | 32 |
| 33 | | 4,025 | M | | - | | A | 20/2 | 950 | M SEPTIC PUMP | 34 |
| 35 | WELL PUMP | 1,200 | M | | 25/2 | | B | - | 950 | M - | 36 |
| 37 | | 1,200 | M | | - | | A | 20/1 | 720 | R RECP - APPARATUS W WALL | 38 |
| 39 | WELL BOOSTER PUMP | 600 | M | | 20/2 | | B | 20/1 | 180 | R RECP - BOOSTER PUMP CONTROLLER | 40 |
| 41 | | 600 | M | | - | | A | | | SPACE | 42 |

| Connected Load: | Ph. A | 30,722 VA | 256 Amps | Panel Connected Load: | 59.4 KVA | 247.6 Amps |
|-----------------|-------|-----------|----------|---------------------------|------------------|-------------------|
| Connected Load: | Ph. B | 28,697 VA | 239 Amps | Total Demand Load: | 112.0 KVA | 466.6 Amps |

| Load Type | Load Description | Connected Loads | Subd Loads (S) | Total Loads | Demand Factor | Demand Load |
|---------------|--------------------------|-----------------|----------------|-------------|---------------|---------------------|
| G | General (Non-Continuous) | 9.33 | 0.75 | 10.08 | 100% | 10.08 (KVA Typical) |
| L | Lighting | 0.00 | 1.64 | 1.64 | 125% | 2.05 |
| R | Receptacles - to 10 KVA | 2.88 | 9.12 | 10.00 | 100% | 10.00 |
| | over 10 KVA | | 0.00 | 2.00 | 50% | 1.00 |
| K | Kitchen | 0.00 | 11.55 | 11.55 | 70% | 8.09 |
| H | Heating | 9.60 | 24.60 | 34.20 | 100% | 34.20 |
| M | Motors | 26.17 | 6.10 | 32.27 | 100% | 32.27 |
| LM | Largest Motor | 11.44 | 0.00 | 11.44 | 125% | 14.30 |
| WH | Water Heater | 0.00 | 0.00 | 0.00 | 125% | 0.00 |
| C | Continuous General Load | 0.00 | 0.00 | 0.00 | 125% | 0.00 |
| Total: | | | | | | 111.97 KVA |



1 ONE-LINE DISTRIBUTION DIAGRAM
SCALE: NTS

| FEEDER SCHEDULE | |
|--|--|
| CALLOUT X-Y-Z | Y = CONFIGURATION CODE Z = INDICATES IF GROUND CONDUCTOR(S) ARE INCLUDED |
| X = NOMINAL CIRCUIT AMPACITY EG. 225 = 225 AMPERES | 1N = 1W + NEUT 1 = 1PH 2W 2 = 1PH 3W 3 = 3PH 3W 4 = 3PH 4W |
| G = EQUIPMENT GROUND | IG = ISOLATED GROUND |
| CALLOUT | DESCRIPTION |
| 600-2 | (2) 2 1/2"C-3#350 KCM IN PARALLEL |
| 225-2-G | 2"C-3#4/0 + #4 GND |
| 400-2-G | (2) 2"C-3#3/0 + #3 GND IN PARALLEL |
| 600-2-G | (2) 2 1/2"C-3#350 KCM + #1/0 GND IN PARALLEL |