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Existing Terminal Renovation for:  
**OLD DOMINION FREIGHT LINE**  
**ODFL PORTLAND, ME**  
185 RAND ROAD,  
PORTLAND, ME 04102

FOR PERMIT 2/14/14

Project No. 13061.00

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Sheet Name:

LEGEND & NOTES

Sheet Number:

E3.1

ORA JOB# 01014

**LEGEND:**

**RECEPTACLES:** (157)

- OUTLET - UNIPLEX, GENERAL PURPOSE, 120 V, 20 A
- OUTLET - DUPLEX, GENERAL PURPOSE, 120 V, 20 A
- OUTLET - DUPLEX, TAMPER PROOF
- OUTLET - DUPLEX, COUNTER HEIGHT, 120 V, 20 A (8" A.C.T.)
- OUTLET - DUPLEX, COUNTER HEIGHT, GFCI, 120 V, 20 A (8" A.C.T.)
- OUTLET - DUPLEX, CEILING MOUNTED, 120 V, 20 A
- OUTLET - DUPLEX, WEATHER PROOF, GROUND FAULT CURRENT INTERRUPTER, 120 V, 20 A
- OUTLET - DUPLEX, GROUND FAULT CURRENT INTERRUPTER, 120 V, 20 A
- OUTLET - DUPLEX, 120 V, 20 A, PLUGMOLD
- OUTLET - DUPLEX, SWITCHED, 120 V, 20 A
- OUTLET - DUPLEX, 120 V, 20 A, ISOLATED GROUND
- OUTLET - DUPLEX, GENERAL PURPOSE, 120V, 20A ON ARC FAULT CURRENT INTERRUPTING CIRCUIT BREAKER
- OUTLET - QUADRUPLX, GENERAL PURPOSE, 120 V, 20 A
- OUTLET - DUPLEX, FLOOR, GENERAL PURPOSE, 120 V, 20 A
- OUTLET - QUADRUPLX, FLOOR, GENERAL PURPOSE, 120 V, 20 A
- OUTLET - OVEN, 240 V, 60 A
- OUTLET - DRYER, 240 V, 30 A
- HARD-WIRE CONNECTION POINT
- WIREMOLD SERIES 4000 RACEWAY WITH DEVICES AS INDICATED
- WALL MOUNTED P.I.R. OCCUPANCY SENSOR
- CEILING MOUNTED, DUAL SENSING OCCUPANCY SENSOR
- OUTLET - TRIPLEX, RETRACTABLE DROP CABLE, GENERAL PURPOSE, 120 V, 20 A

**OTHER:**

- PANELBOARD - SURFACE MOUNT
- PANELBOARD - FLUSH MOUNT
- PE PHOTOELECTRIC CELL
- DCS DIMMER CONTROL SYSTEM WITH HAND-HELD REMOTE, 120V, MULTIPLE ZONE
- ☑ MANUAL STARTER, SIZED FOR EQUIPMENT SERVED
- T DRY TYPE TRANSFORMER
- DISCONNECT, SIZE AS INDICATED (60")
- OVERHEAD DOOR CONTROL
- OVERHEAD DOOR MOTOR
- LIGHTING CONTACTOR
- JUNCTION BOX
- EWB ELECTRIC WALL OR BASEBOARD HEATER
- EXHAUST FAN
- THERMOSTAT (60")
- EXISTING TO REMAIN
- INTERCEPT EXISTING CIRCUIT
- TELEVISION OUTLET AND RECEPTACLE FIELD COORDINATE HEIGHT WITH OWNER
- DURESS SWITCH
- UTILITY METER
- EXIT SIGN (ARROW INDICATES ILLUMINATED FACE) (96")
- TWIN HEAD EMERGENCY BATTERY UNIT
- SWL SWITCH WITH LIGHTS (FOR EXHAUST FANS)

**SOUND/INTERCOM/PHONE SYSTEM:**

- SOUND SPHERE
- AMPLIFIER
- MICROPHONE OUTLET, FLOOR MOUNTED, FLUSH
- A → GYMNASIUM SOUND SYSTEM WIRING TO AMPLIFIER
- SPEAKER
- VOLUME CONTROLS
- SSC SOUND SYSTEM CONTROLLER
- PA PUBLIC ADDRESS SYSTEM
- ▶ TELEPHONE OUTLET
- 3 GANG OF THREE DATA OUTLETS
- ▶ WALL PHONE, 60" A.F.F
- PHONE & DATA COMBINATION OUTLET
- CLASSROOM SPEAKER
- GP GENERAL PAGE SPEAKER
- GP SPEAKER/PAGING
- ITC TELEPHONE/INTERCOM CABINET
- TI → TELEPHONE/INTERCOM WIRING TO CABINETS

**SWITCHES:** (44" - UNLESS OTHERWISE NOTED)

- S SWITCH - SNAP, 120 V, 20 A, SINGLE POLE
- S<sub>3</sub> SWITCH - SNAP, 120 V, 20 A, 3-WAY OPERATION
- S<sub>4</sub> SWITCH - SNAP, 120 V, 20 A, 4-WAY OPERATION
- S<sub>K</sub> SWITCH - KEY, 277 V, 20 A, SINGLE POLE, HUBBELL 1221L
- S<sub>D</sub> DIMMER CONTROL SWITCH, 120V, 20A
- S<sub>T</sub> SWITCH - WITH TIMER, 0-60 MIN. WITH HOLD TORK #A560MH
- WALL MOUNTED P.I.R. OCCUPANCY SENSOR
- CEILING MOUNTED, DUAL SENSING OCCUPANCY SENSOR

**FIRE ALARM SYSTEM:**

- II PULL STATION (48")
- II HORN/STROBE (80")
- II T HORN/STROBE (80" - 'T' TAMPER PROOF)
- II STROBE ONLY (80")
- CEILING MOUNTED SMOKE DETECTOR
- S-T CEILING MOUNTED SMOKE DETECTOR ('T' TAMPER PROOF)
- H HEAT DETECTOR
- D DUCT SMOKE DETECTOR
- DOOR HOLDER (78")
- ISIG SPEAKER/LIGHT WITH GUARD (90")
- IFACP FIRE ALARM CONTROL PANEL
- IFAA FIRE ALARM ANNUNCIATOR (48")
- IFVP VOICE FIRE ALARM PANEL WITH STROBE
- FA → FIRE ALARM SYSTEM AND CONDUIT WIRING
- T 'T' DESIGNATES 'TAMPER PROOF' OPTION

**SECURITY SYSTEM:**

- PIR C CEILING MOUNTED MOTION DETECTOR
- PIR M WALL MOUNTED MOTION DETECTOR
- MS MAGNETIC DOOR SWITCH
- CRS CARD READER
- STC SECURITY TERMINAL CONTROLLER
- SMIP SECURITY MAIN PROCESSOR
- S → SECURITY SYSTEM AND CONDUIT WIRING

**CLOCK/BELL SYSTEM:**

- BELL (96")
- CLOCK (96")
- CBCC CLOCK BELL CONTROLLER

**NOTE:**  
ALL OF THE SYMBOLS AND ABBREVIATIONS INCLUDED ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

**GENERAL NOTES:**

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, NATIONAL ELECTRICAL CODE. ALL ITEMS ARE ON AN EQUAL BASIS.
2. ALL SINGLE PHASE BRANCH CIRCUITS (RECEPTACLES, LIGHTING, ETC.) ARE 1/2" CONDUIT OR EMT WITH (3)#12 BLACK/WHITE/GREEN, THHN, 90°C WIRING. ALL OTHER CONDUIT AND WIRING SHALL BE AS INDICATED ON THE PLANS. ACTUAL ROUTING AND HOMERUN GROUPINGS ARE TO BE DETERMINED IN THE FIELD.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC EXCEPT FOR DETAILS AND ELEVATIONS. DO NOT SCALE FROM DIAGRAMMATIC DRAWINGS. EXACT LOCATIONS OF DEVICES AND PANELS ARE TO BE DETERMINED AND ROUGHED-IN DURING CONSTRUCTION TO AVOID INTERFERENCE, TO MEET USER REQUIREMENTS, TO PROVIDE ADEQUATE MOUNTING, AND TO MEET NEC LINEAR ACCESS AND CLEARANCE REQUIREMENTS.
4. CIRCUIT BREAKER FOR WATER HEATERS TO BE PROVIDED WITH THE MEANS TO BE LOCKED IN THE OPEN POSITION.
5. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
6. FINAL CONNECTIONS TO ALL AIR-HANDLERS, CONDENSING UNITS, EXHAUST FANS, AND OTHER EQUIPMENT DEVICES WHICH VIBRATE, SHALL BE MADE WITH FLEXIBLE SEALTITE AND APPROPRIATE WIRING.
7. ELECTRICAL DRINKING FOUNTAIN RECEPTACLES SHALL BE LOCATED AS REQUIRED TO CONCEAL RECEPTACLE BEHIND THE WATER COOLER ASSEMBLY.
8. BACK TO BACK MOUNTING OF RECEPTACLES IS NOT PERMITTED.
9. IN ADDITION TO THE NEC REQUIREMENTS FOR GFCI RATED RECEPTACLES, THE FOLLOWING RECEPTACLES SHALL ALSO BE GFCI RATED:
  - 9.1. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK.
  - 9.2. ALL RECEPTACLES WHICH ARE PROVIDED FOR CONVENIENCE IN SERVICING HVAC EQUIPMENT REGARDLESS OF LOCATION.
  - 9.3. ALL RECEPTACLES IN AREAS THAT ARE DEFINED BY THE NEC AS KITCHENS.
 EITHER INDIVIDUAL GFCI DEVICES OR GFCI CIRCUIT BREAKERS ARE ACCEPTABLE BUT RECEPTACLES PROVIDED BY CIRCUIT BREAKERS OR OTHER GFCI DEVICES SHALL BE CLEARLY MARKED AS GFCI AND THE SOURCE OF PROTECTION SHOWN.
10. PROVIDE A LAMICOID NAMEPLATE (WHITE LETTERS ON BLACK BACKGROUND) ON EACH PANELBOARD, MOTOR STARTER, CONTACTOR, TRANSFORMER, ETC. LETTERS SHALL BE 0.75 INCH MINIMUM.
11. CIRCUIT BREAKERS FOR HVAC EQUIPMENT SHALL BE HACR RATED.
12. MINIMUM HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE WALLS OF FIRE RATED WALL SHALL BE 24 INCHES.
13. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES.
14. CONTRACTOR SHALL INSTALL THE UNDERGROUND SERVICE LATERAL TO THE UTILITY PROVIDED TRANSFORMER(S). TRANSITION TO RIGID GALVANIZED STEEL CONDUIT FROM THE UNDERGROUND PVC CONDUIT IS REQUIRED EXITING ABOVE GRADE. SERVICE MUST COMPLY WITH ALL REQUIREMENTS OF THE LOCAL ELECTRIC UTILITY.
15. TRADE NAMES ARE GIVEN TO CLARIFY TYPE OF PRODUCT AND QUALITY DESIRED.
16. CONTRACTOR SHALL CUT AS REQUIRED TO INSTALL ELECTRICAL EQUIPMENT. REPAIR OF FLOOR OR WALLS SHALL BE COORDINATED WITH GENERAL CONTRACTOR. CONTRACTOR SHALL ALSO REPAIR ALL OPENINGS LEFT DUE TO EQUIPMENT REMOVAL.
17. CONDUCTORS ARE AWG#12 COPPER UNLESS OTHERWISE SHOWN. ALL CONDUCTORS LARGER THAN #10 SHALL BE STRANDED. RUNS IN EXCESS OF 90'-0" (ONE WAY) SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE MAXIMUM 2% VOLTAGE DROP.
18. PANELBOARDS SHALL CONTAIN A TYPEWRITTEN DIRECTORY WITH A PLASTIC COVER AFFIXED TO THE INSIDE DOOR. ALL EXISTING PANELBOARDS SHALL RECEIVE NEW TYPEWRITTEN DIRECTORIES WITH A PLASTIC COVER AFFIXED TO THE INSIDE DOOR.
19. ALL FIXTURES, DEVICES, CONDUIT, AND EQUIPMENT SHALL BE SECURED WITH APPROVED HANGERS AND ANCHORS AND IN ACCORDANCE WITH APPROVED STANDARDS OF INSTALLATION.
20. ALL BREAKERS SHOWN IN THE PANELBOARD SCHEDULE SHALL BE RATED AS SHOWN FOR BOTH CIRCUIT CAPACITY AND FAULT CURRENT INTERRUPTING CAPACITY.
21. FOR PHONE AND/OR DATA DROPS, INSTALL JUNCTION BOX WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE.
22. ALL PANELBOARDS, DISCONNECT SWITCHES, MOTOR STARTERS, AND CONTACTORS SHALL BE NEMA 1 UNLESS OTHERWISE NOTED.
23. IN ACCORDANCE WITH ARTICLE 250-52 NEC, BOND GROUNDING ELECTRODE SYSTEM TO ALL OF THE FOLLOWING IF AVAILABLE:
  - 23.1. BUILDING STEEL
  - 23.2. FOUNDATION REBAR
  - 23.3. BUILDING COUNTERPOISE
  - 23.4. UNDERGROUND METAL COLD WATER PIPE
24. ALL WIRING INCLUDING COMMUNICATIONS/DATA ETC. SHALL BE INSTALLED IN CONDUIT IF RUN THROUGH PLENUM SPACES.

**SPECIAL NOTES:**

1. ALL DEVICES (RECEPTACLES, SWITCHES, ETC.) TO BE WHITE EXCEPT WHERE TILE IS TO BE INSTALLED (BREAKROOM, RESTROOMS) WHERE GRAY DEVICES WILL BE USED.
2. ALL EXTERIOR LIGHT FIXTURES TO BE BRONZE.