1. PROVIDE AND INSTALL 0-10V DIMMING PC CONDUCTORS TO ALL LIGHTS CONTROLLED BY THIS SWITCH.

2. SEE SHEET E7.0 FOR CEILING OCCUPANCY SENSOR INFORMATION.

3. SEE SHEET E7.0 FOR CEILING MOUNT SMALL MOTION OCCUPANCY SENSOR INFORMATION.

4. PROVIDE AND INSTALL LOW VOLTAGE CABLE BETWEEN CEILING MOUNT OCCUPANCY SENSORS, LOW VOLTAGE SWITCH, AND POWER PACK AS RECOMMENDED BY THE MANUFACTURER.

5. NOTED FIXTURE TO BE SET TO LOW LUMEN OUTPUT.

6. NOTED FIXTURE TO BE SET TO MEDIUM LUMEN OUTPUT.

7. NOTED FIXTURE TO BE SET TO HIGH LUMEN OUTPUT.

8. SEE SHEET E7.0 FOR EXTERIOR PHOTOCELL AND INSTALL A 7-DAY/365-DAY LIGHTING CONTROL TIMER PER 2018 IECC. MAKE: INTERMATIC, MODEL: ET2815C OR EQUAL.
LAB EQUIPMENT LIST

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KEYED NOTES:

1. WHERE THE SPECIFIC OUTLET HEIGHT OR ON THIS SHEET.
2. THE SPECIFIC OUTLET HEIGHT OR ON THIS SHEET.
3. THE SPECIFIC OUTLET HEIGHT OR ON THIS SHEET.

GENERAL NOTES:

6. PERMIT TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL ENGINEERS IS REQUIRED FOR THE SITES OF THE PROJECT.
7. PERMIT TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL ENGINEERS IS REQUIRED FOR THE SITES OF THE PROJECT.
8. PERMIT TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL ENGINEERS IS REQUIRED FOR THE SITES OF THE PROJECT.
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11. PERMIT TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL ENGINEERS IS REQUIRED FOR THE SITES OF THE PROJECT.
KEYED NOTES:
1. SEE SHEET E6.0 FOR THERMOSTAT ROUGH-IN ELEVATION DETAIL.
2. MILLER
SYMBOL USED FOR CALLOUT

GENERAL NOTES:
A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION.
B. WIRING ELECTRICAL SYSTEMS FOR CONTRACTOR. THE LOCATION MUST BE APPROVED BY THE CONTRACTOR AND ENGINEER OF RECORD PRIOR TO ROUGH-IN.
C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, ARCHITECT FOR EACH LOCATION.
D. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL LOW VOLTAGE PILOT LIGHT WALL SWITCH WITH 3/4" CONDUIT STUBBED BACK TO DDC PANEL FOR EQUIPMENT VENTILATION CONTROL.
E. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL LOW VOLTAGE PILOT LIGHT WALL SWITCH WITH 3/4" CONDUIT STUBBED BACK TO DDC PANEL FOR EQUIPMENT VENTILATION CONTROL.
F. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION.
G. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, ARCHITECT FOR EACH LOCATION.

MECHANICAL POWER PLAN
KEYED NOTES:

1. INSTALL THERMOSTAT AT POWER SOURCE FOR HEAT TRACE, SEE SHEET E6.0 FOR PRODUCT INFORMATION.

2. SEE SHEET E6.0 FOR HEAT TRACE INSTALLATION DETAIL.

3. 3/4" INTO BUILDING FOR CONTROLS.

GENERAL NOTES:

A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

C. ALL CONDUIT AND JUNCTION BOXES ARE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
MECHANICAL POWER PLAN - ENLARGED
LAB MECHANICAL ROOM

KEYED NOTES:
1. SEE SHEET E6.0 FOR THERMOSTAT ROUGH-IN ELEVATION DETAIL.
2. 3/4"C TO MECHANICAL EQUIPMENT.
3. SEE SHEET E5.0 FOR CONDUIT AND CONDUCTOR SIZE AND QUANTITY.

GENERAL NOTES:
A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.
B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
### Panel L1

**Location:** ELECTRICAL 116  
**Volts:** 120/208 Wye  
**A.I.C. Rating:** 22KA  
**Mounting:** SURFACE  
**Enclosure:** TYPE I  

**Notes:**
1) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A GFCI BREAKER.  
2) RED HANDLE, LOCKABLE BREAKER

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**Total Load:** 13076 VA  
**Total Amps:** 109 A

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### Panel L2

**Location:** ELECTRICAL 116  
**Volts:** 120/208 Wye  
**A.I.C. Rating:** 22KA  
**Mounting:** SURFACE  
**Enclosure:** TYPE I  

**Notes:**
1) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A GFCI BREAKER.

---

### Panel L3

**Location:** ELECTRICAL 116  
**Volts:** 120/208 Wye  
**A.I.C. Rating:** 22KA  
**Mounting:** SURFACE  
**Enclosure:** TYPE I  

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### Panel L4

**Location:** ELECTRICAL 116  
**Volts:** 120/208 Wye  
**A.I.C. Rating:** 22KA  
**Mounting:** SURFACE  
**Enclosure:** TYPE I  

**Notes:**
1) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A GFCI BREAKER. VERIFY EQUIPMENT PHASE AND VOLTAGE PRIOR TO INSTALLATION.
1" C EMT WITH PULLSTRING FOR DATA/COMMUNICATIONS
FINISHED FLOOR
WALL STUD
FLOOR PLATE
STUB UP 4" ABOVE CEILING
ACCESSIBLE CEILING
ANTI-SHORT PLASTIC BUSHING ARLINGTON INDUSTRIES EMT100
OR EQUAL
VARIES
TOP PLATE
INSTALL CONDUIT STRAP AS REQUIRED BY NEC (TYPICAL)
CONCRETE RECESSED FLOOR BOX: HUBBELL #CFB2G25 (FLOOR BOX) HUBBELL #24GTCVRXXX (FINISH BY ARCHITECT) HUBBELL #FBMPDUP (DUPLEX OPENING) HUBBELL #FBMPREC (DECORATOR OPENING)
ELECTRICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF DATA/TELEPHONE ROUGH-IN
TYPICAL DETAIL - ACTUAL INSTALLATION MAY VARY
1" C EMT WITH PULLSTRING FOR POWER CONDUCTORS AS SHOWN ON POWER DRAWINGS
STUB 3/4" INTO DOOR FRAME SEE ARCHITECTURAL DOOR SCHEDULE
HOLLOW STEEL DOOR FRAME
ACCESS CONTROL ROUGH-IN DETAIL
FLOOR BOX ROUGH-IN DETAIL
E6.1
OCCUPANCY SENSOR - WALL MOUNT, SINGLE TECHNOLOGY, 120-277V, SINGLE POLE, MULTI-WAY
SENSOR SWITCH WSXA-MWO-XX OR EQUAL

OCCUPANCY SENSOR - WALL MOUNT, SINGLE TECHNOLOGY, DIMMING, 120-277V, SINGLE POLE, MULTI-WAY
SENSOR SWITCH WSXA-MWO-D-XX OR EQUAL

OCCUPANCY SENSOR - CEILING MOUNT, DUAL TECHNOLOGY, LOW VOLTAGE, SMALL MOTION
SENSOR SWITCH CM-PDT-9 OR EQUAL

POWER PACK - 120 VOLT, 15 VDC SENSOR SWITCH PP20 OR EQUAL

DIMMING SWITCH - WALL MOUNT, 120/277V, LED, ON/OFF/SLIDE DIMMER SWITCH
SYNERGY ISD-BC-120/277-XX  OR EQUAL EXTERIOR RATED PHOTOCELL. MAKE: DARK TO LIGHT,  MODEL: DSW124

XX=VERIFY COLOR WITH ARCHITECT PRIOR TO ORDER

EQUAL PRODUCTS FROM WATTSTOPER, LUTRON, LEGRAND, AND EATON WILL BE ACCEPTED

MILLER STAUFFER ARCHITECTS

LICENSED ARCHITECT
AR-984931
MICHAEL P. WALKER
STATE OF IDAHO

PROJECT NUMBER
601 E. FRONT AVE. STE 201
COEUR D'ALENE, IDAHO 83814
P 208.664-1773 F 208.667.3174
WWW.MILLERSTAUFFER.COM

5/14/2024 4:21:47 PM Autodesk Docs://ITD D-1 Laboratory/23239 ITD D1 Lab MEP_r23.rvt

E7.0

PROJECT MANAGER
PRINCIPAL

BID SET
5/13/2024

05/13/2024
05/14/2024
05/14/2024
05/14/2024

LIGHTING DETAILS

D-1 Testing Laboratory
MNB
AJH
600 W Prairie Ave
Coeur d'Alene, ID 83814

NO. DESCRIPTION DATE
05/13/2024
05/13/2024
05/14/2024
05/14/2024
05/14/2024

SWITCH AND OCCUPANCY SENSOR LEGEND

- SUBTENTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO A DATE SET BY THE OWNER OF THE SUBMISSION DATE ON THE DATE SPECIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING THE PROJECT TO THE CITY ELECTRICAL ENGINEER THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING SUBMITTED DRAWINGS DETERMINING COLOR FOR LIGHTING DEVICES PRIOR TO ORDERING DETERMINING HOURS OF OPERATION
1. Existing Avista Power Utility electrical pole preserve and protect.

2. Proposed location of new Avista Power Utility 3-phase padmounted junction enclosure.


4. Proposed location of new Avista Power Utility CT cabinet and meter base. CT cabinet, meter base, ITD owned data pull box and ITD owned panel to be installed on unitstrut rack. Rack to be provided and installed by electrical contractor.

5. Proposed location of new Avista Power Utility meter base. Meter base to be installed on unitstrut rack. Rack to be provided and installed by electrical contractor.


7. Proposed location for new standby diesel generator. See sheet E5.0 for more information.

8. Electrical contractor to preserve and protect existing light pole at approximate location.

9. Electrical contractor to preserve and protect existing underground power conduit and conductors at approximate location.

10. Electrical contractor to preserve and protect existing underground data conduit and cables at approximate location.

11. New Service Entrance Rated Breaker Disconnect. See sheet E5.0 for more information. Conduit and conductor to run through the building to the generator automatic transfer switch.

12. New exterior rated generator automatic transfer switch. See sheet E5.0 for more information.


15. Proposed location for new equipment power rack. See sheet ES1.2 for more information.

16. New breaker disconnect. See sheet E5.0 for more information.

17. New water line. See Civil Drawings for more information.

18. New gas line. See Civil Drawings for more information.


20. 1"C for access control data conductors provided and installed 24" below grade by electrical contractor.

21. 1"C for access control gate power conductors provided and installed 24" below grade by electrical contractor. See sheet E2.0 for circuiting information.
KEYED NOTES:

1. EITHER APPLETON ADJA1034-150 (RECEPTACLE) AND ACP1034CD (PLUG) ON EQUIPMENT RACK. TRAILER WILL HAVE APPLETON ADJA1034-150RS (RECEPTACLE) AND ACP1034CDRS (PLUG). NEMA 3R ENCLOSURE REQUIRED.

2. SQUARE D DTU224NRB DOUBLE-POLE DOUBLE-THROW SWITCH OR EQUAL. NEMA 3R ENCLOSURE REQUIRED.

3. VEVOR RV-30A/50A OR EQUAL. NEMA 3R ENCLOSURE REQUIRED.

4. APPLETON ADJA20034-200 (RECEPTACLE) AND AP20034E (PLUG) ON EQUIPMENT RACK. TRAILER WILL HAVE APPLETON ADJA20034-200RS (RECEPTACLE) AND ACP20034CDRS (PLUG). NEMA 3R ENCLOSURE REQUIRED.

5. PANELS Tx - 240Y/120, 400A 1Ø, 3W, 22K AIC, 3R

6. WP GFCI RECEPTACLE

7. LED YARD LIGHT

8. METAL TAB

9. BALLARD

10. E. FRONT AVE. STE 201

11. COEUR D'ALENE, IDAHO 83814

12. P 208.664-1773 F 208.667.3174

13. WWW.MILLERSTAUFFER.COM

14. MILLER STAUFFER ARCHITECTS

15. LICENSED ARCHITECT AR-984931

16. MICHEAL P. WALKER STATE OF IDAHO

17. Project No. 23

18. 5/14/2024 4:21:48 PM Autodesk Docs://ITD D-1 Laboratory/23239 ITD D1 Lab MEP_r23.rvt

19. ES1.2 SITE ELECTRICAL DETAILS BID SET 5/13/2024