Addendum # 1

For the Bid of

ITD D-1 Laboratory
600 W. Prairie Ave
Coeur d’Alene, Idaho 83514
6/13/2024

From: Miller Stauffer Architects
601 E. Front Ave. Suite 201
Coeur d’Alene, ID 83814
Ph (208) 664-1773
Fax (208) 667-3174
Website: www.millerstauffer.com

T.O. ALL PLAN HOLDERS

This Addendum consists of 07 pages of Addenda, plus 24 pages of revised or new construction drawings, and 27 pages of revised specifications. It also includes 01 sign-in sheet with contact information from the Pre-Bid meeting on Tuesday, June 11, 2024. For a total of Addendum #1 sheets to be 59.

Important: Bidders must acknowledge receipt of this addendum as well as all other issued addenda on the Form provided with the Contract Documents, which must be utilized by bidder for bid to be considered responsive. Failure to do so may subject bidder to disqualification.

1. General
   a. Bid date and time schedule has been revised.
      i. Refer to Attached revised specification section 00 00 30 Advertisement for Bid.
   b. Domestic product preference: Remove all references to domestic product preferred (Buy American) from the product specifications. There no federal funds on this project and buy American is not a requirement.
   c. The future natural gas generator shown on Electrical sheet E5.0 will be installed at a future date which is currently unknown. Contractor to not include any work related to the fuel lines, supply of generator, or supply of Automatic Transfer Switch.

2. Drawings
a. Clarifications
   i. None
b. Additions
   i. None
c. Deletions
   i. None
d. Revisions
   i. G1.1 – Life Safety Plan
      1. Doors 113-1, 115-1, and 116-1 are revised to be 2'-10" wide to provide
         appropriate means of egress. See sheet G1.1.
   ii. A2.1 – Floor Plan
       1. Doors 113-1, 115-1, and 116-1 are revised to be 2'-10" wide to
          provide appropriate means of egress. See sheet A2.1.
   iii. A2.5 – Flooring Plan
        1. Dimensions of floor drains provided, see sheet A2.5.
   iv. A5.4 – Door Types
      1. Doors 113-1, 115-1, and 116-1 are revised to be 2'-10" wide to provide
         appropriate means of egress. See sheet A5.4.
e. Substitutions
   i. M1.0 – HVAC Floor Plan
      1. See attached mechanical narrative and drawings from Musgrove
         Engineering.
   ii. M1.1 – Exhaust Floor Plan
       1. See attached mechanical narrative and drawings from Musgrove
          Engineering.
   iii. M1.2 – Hydronic Floor Plan
        1. See attached mechanical narrative and drawings from Musgrove
           Engineering.
   iv. M2.0 – Mechanical Roof Plan
      1. See attached mechanical narrative and drawings from Musgrove
         Engineering.
   v. M2.4 – Mechanical Details
      1. See attached mechanical narrative and drawings from Musgrove
         Engineering.
   vi. M5.1 – Mechanical Schedules
       1. See attached mechanical narrative and drawings from Musgrove
          Engineering.
   vii. M5.2 - Mechanical Schedules
        1. See attached mechanical narrative and drawings from Musgrove
           Engineering.
   viii. M6.2 – Mechanical Controls
        1. See attached mechanical narrative and drawings from Musgrove
           Engineering.
   ix. P2.0 – Plumbing Floor Plan
       1. See attached mechanical narrative and drawings from Musgrove
          Engineering.
   x. E1.0 – Lighting Plan
1. See attached electrical narrative and drawings from Musgrove Engineering.
	xi. E2.0 – Power Plan
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xii. E3.0 – Mechanical Power Plan
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xiii. E3.1 – Roof Mechanical Power Plan
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xiv. E3.2 – Mechanical Power Plan – Enlarged Lab Mechanical Room
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xv. E5.0 – One-Line and Panel Schedules
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xvi. E5.1 – Panel Schedules
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xvii. E7.0 – Lighting Details
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xviii. ES1.0 – Site Electrical Plan
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xix. ES1.1 – Site Electrical Details
   1. See attached electrical narrative and drawings from Musgrove Engineering.

xx. ES1.2 – Site Electrical Details
   1. See attached electrical narrative and drawings from Musgrove Engineering.

3. Specifications
   a. Clarifications
      i. Spec Section 08 80 00 Glazing
         1. All exterior glazing to be dark blue tinted, disregard all notes to grey tint.
         2. All interior glazing to be (acoustic glazing) meaning double pane clear glazing.
            a. Not single pane.
            b. Special acoustic glass not need.

   b. Additions
      i. None

   c. Deletions
      i. None

   d. Revisions
      i. Section 000300.1 – Contractor Bid Form has been revised. See Section attached.
ii. Section 000030.1 – Advertisement for Bids has been revised. See Section attached.

iii. Section 000031.1 – Bid Package Index has been revised. See Section attached.

e. Substitutions

i. Spec Section 084113 Aluminum Framed Entrances and Storefront
   1. Marlin is an acceptable manufacturer for the aluminum storefront doors and windows.

ii. Spec Section 07 46 19 Steel Siding
   1. Taylor Metals, Miramac, Metals Sales, and Peterson Metals are all approved manufacture for Steel Siding.

iii. Spec Section 07 41 13.19 Concealed Fastener Metal Roof Panels
   1. Taylor Metals, Miramac, Metals Sales, and Peterson Metals are all approved manufacture for Steel Siding.

END OF ADDENDUM #1
ADDENDUM #1
(MECHANICAL/ELECTRICAL)

Date: 6/11/2024
Job Number: 23-239
Prepared By: Chris Dyke & Allen Halverson
Sheet: 1 of 3
Project: ITD D1 Lab

To: Miller Stauffer Architects
601 E. Front Ave.
Coeur d'Alene, Idaho 83814
Attention: Kol Nelson

NOTICE TO BIDDERS: THIS ADDENDUM IS HEREBY MADE A PART OF THE PROJECT REQUIREMENTS AND CONTRACT DOCUMENTS FOR THE PROJECT REFERENCED ABOVE.

General

1. The following manufacturers shall be approved for bidding only. Final approval shall be based on the requirements of the plans and specifications.

   Description and Manufacturer
   TAB Contractor: Riley Engineering
   Water Softener: North Star Commercial Water
   Hot Water Reheat Coils: Coilmaster
   Snorkel Hoods: AQC

Plan Modifications

1. Sheet M1.0 – HVAC FLOOR PLAN
   a. Modified airflows of several diffusers associated with the split system (F-1/CU-1).
   b. Added supply diffuser and return grille in Office Mechanical 113.
   c. Added separate duct and balance damper for D-4 diffuser in D-1 Lab 123.
   d. Added 10" round duct size to return duct from Office 114.
   e. Added duct pressure sensor to AHU main.

2. Sheet M1.1 – EXHAUST FLOOR PLAN
   a. Added keyed note #9.
   b. Added keyed note #10.
   c. Connected 12" exhaust round duct from GEV-1 to main duct.

3. Sheet M1.2 – HYDRONIC FLOOR PLAN
   a. Added direction arrows for hydronic hot water piping.
   b. Added keyed note #3.
   c. Updated keyed note #2 to clarify steam line is for humidifier in air handling unit.
   d. Added hydronic pipe drops to each hot water reheat coil.

4. Sheet M2.0 – MECHANICAL ROOF PLAN
a. Changed roof-mounted exhaust fan tags (EF-7 to EF-6, EF-6 to EF-5, & EF-5 to EF-4).

5. Sheet M4.2 – MECHANICAL DETAILS
   a. Updated boiler piping schematic
      i. Added strainer on inlet piping
      ii. Relocated T&P per manufacturer requirements
   b. Updated Heating Coil Piping Detail
      i. Removed “connect to existing notes”.

6. Sheet M5.1 – MECHANICAL SCHEDULES
   a. Added R-5 & R-6 return grilles to Return & Exhaust Grille Schedule.

7. Sheet M5.2 – MECHANICAL SCHEDULES
   a. Updated Sound Attenuator Schedule with correct model number, weight, and sound data.
   b. Updated Split System Air Conditioning Unit Schedule (96%+ Gas) with correct design temperature data.

8. Sheet M6.2 – MECHANICAL CONTROLS
   a. Fixed boiler piping connections.
   b. Fixed flow meter location.

9. Sheet P2.0 – PLUMBING FLOOR PLAN
   a. Provide mixing valve set to 120deg for domestic hot water line feeding the Hamburg Wheel Tracker (EQ-11).

10. Sheet E1.0 – LIGHTING PLAN
    a. Added keynotes to occupancy sensors and low voltage cabling.
    b. Added E1 exit lights in open office.

11. Sheet E2.0 – POWER PLAN
    a. Revised service entrance electrical gear.
    b. Added GFCI’s to (2) receptacles.

12. Sheet E3.0 – MECHANICAL POWER PLAN
    a. Added keynote for recirculation pump power.

13. Sheet E3.1 – ROOF MECHANICAL POWER PLAN
    a. Added heat trace to AHU-1 drain.
    b. Added additional heat trace circuit.
    c. Updated Exhaust Fan Equipment tags.

14. Sheet E3.2 – MECHANICAL POWER PLAN – ENLARGED LAB MECHANICAL ROOM.
    a. Added wire size and quantity information.

15. Sheet E5.0 – ONE-LINE AND PANEL SCHEDULES
    a. Revised One-Line diagram

16. Sheet E5.1 – PANEL SCHEDULES
    a. Revised breakers.

17. Sheet E7.0 – LIGHTING DETAILS
    a. Revised dimming switch symbol.
18. Sheet ES1.0 – SITE ELECTRICAL PLAN  
   a. Revised service entrance electrical gear.  
   b. Added existing light pole locations.  
   c. Revised keynotes.

19. Sheet ES1.1 – SITE ELECTRICAL DETAILS  
   a. Revised trenching details.  
   b. Revised trailer one-line diagram.

20. Sheet ES1.2 – SITE ELECTRICAL DETAILS  
   a. Revised equipment rack and one-line details.

The end of Addendum #1.
<table>
<thead>
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<th>Physical Address</th>
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SECTION 000300.1 – CONTRACTOR BID FORM

Bid Proposal for:
**D231130 – D1 Coeur d’Alene Laboratory Facility**
Idaho Transportation Department (ITD)
Coeur d’Alene, Idaho

The Bidder, in compliance with the advertisement for bids for the above project, having examined the bidding and contract documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes all labor, equipment, materials and supplies, and to provide the service and insurance in accordance with the Contract Documents, within the time set forth, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents.

TIME SCHEDULE:

Bidder agrees to complete the work within the time schedule as established by the CM. Basic principles of the project schedule are as follows:

**Milestone “Completed By” Dates:**

**Site:**
- Construction Start on or before: 06/03/24
- Building Pad: 06/28/24
- Right-of-Way Utilities: 07/05/24
- Site Utilities & Electrical: 08/16/24

**Building:**
- Construction Start: 07/22/24
- Concrete Slab Complete: 09/23/24
- Masonry Block Complete: 11/18/24
- Wood Framing Complete: 11/25/24
- Roofing Complete: 12/09/24
- Gypsum Walls Complete: 01/06/25
- Substantial Completion: 03/17/25

By signing this bid form, bidder acknowledges the above milestone dates and agrees to accomplish their work on or before their respective milestone(s) and within the overall schedule in concert with other trades as directed by the CM.

**Bidding Company Name:** ___________________________________________________________________________________
This bid form applies to bid package number & title:
(a separate bid form for each bid package must be provided)

<table>
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<th>Bid Package Title</th>
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Bidder acknowledges receipt of the Addenda No: ________________________
(List by Add. Number(s))

BASE PROPOSAL – Laboratory Facility Phase 2 (Building): The complete Scope of Work for the Bid Package noted above (Idaho State sales tax is included), for the sum of:

Dollars($________________________)____________________________
(Amount shall be shown in both figures and words. In case of discrepancy, the amount in words will govern.)

- If a **Performance and Payment Bond** is requested for the above scope, please list the **Bonding Rate Percentage and dollars**, that would be applied to the base bid amount:

  Rate %____________ $______________________________________________

For contractors bidding on more than one Bid Package a discount may be offered by your firm if both (or more) packages are accepted. Note the discount amount, as applicable, below. The Owner reserves the right to select the combination of separate bids, or a combination of bids with the discount, whichever results in the lowest bid.

List of Bid Packages to combine: _______________________________________

**Discount, in dollars**, if accepted in combination: $________________________

Bidder understands that the Owner and/or the CM reserves the right to accept or reject any and all bids with or without cause, for any reason determined in its sole subjective determination to be in its best interest and to waive any informality in bidding.

**The bidder agrees that this bid shall be good and may not be withdrawn for a period of forty-five (45) calendar days after the scheduled closing time for receiving bids (including alternate items).**

The scope of each bid package must be bid in its entirety as a lump sum. Segregated bids will not be accepted. Any qualifications, exceptions, clarifications, or exclusions to one’s bid may
disqualify their proposal with exception of the Bid Form Attachment (VE Options items) identified in the Instructions to Bidders Spec Section and as below.

Bid Form Attachment - Bidders are encouraged to provide “Value Engineering Options or Cost Saving Options (VE Options)” in addition to their base bid, on their own form as an attachment to this bid form. ITD will take into consideration the attached VE items in evaluating subcontractor proposals for award. VE Options shall not be included in the Bid Form Base Proposal or Alternate/Optional Numbers and will only be included and identified as an attachment to this Bid Form.

Upon receipt of written notice of the acceptance of this bid, Bidder will execute the formal contract referenced within seven (7) days and deliver Insurance Certificates, P&P Bonds, and Special Condition Forms as required by the Bid Documents.

**Additional Bidder Provisions**

By submitting a bid for this Project, the undersigned bidder agrees that, if awarded, the Contractor will conform to all conditions and requirements of the Contract, Contract Documents and the following additional provisions:

**95% Bona Fide Idaho Residents.** Contractor agrees to comply with conditions pertaining to Sections 44-1001 and 44-1002, Idaho Code, requiring the employment of ninety-five percent (95%) bona fide Idaho residents and providing for a preference in the employment of bona fide Idaho residents and regarding the employment of persons not authorized to work in the United States.

**Certification Concerning Boycott of Israel.** Pursuant to Idaho Code section 67-2346, if payments under the Contract exceed one hundred thousand dollars ($100,000) and Contractor employs ten or more persons, Contractor certifies that it is not currently engaged in, and will not for the duration of the Contract engage in, a boycott of goods or services from Israel or territories under its control. The terms in this section defined in Idaho Code section 67-2346 shall have the meaning defined therein.

**Debarment and Suspension.** In submitting this bid proposal, we hereby certify that we have not been suspended or in any way excluded from procurement actions by any State Agency. We fully understand that if information contrary to this certification subsequently becomes available, such evidence may be grounds for non-award or nullification of a bid contract.

**Anti-Collusion.** In submitting this bid proposal, we hereby certify this proposal was developed and prepared without any collusion with any competing bidder or State employee. The content of this proposal has not been disclosed to any competing or potentially competing bidder prior to the proposal due date and time. Furthermore, no action to persuade any person, partnership or corporation to submit or withhold a bid has been made.

**Equal Employment Opportunity.** In submitting this bid proposal, you certify to the State that your company and the subcontractors you hire will comply with the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a), and 60-741.5(a). These regulations prohibit discrimination against
qualified individuals based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientations, gender identity or national origin. Moreover, these regulations required that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status or disability.

**Domestic Procurement Preferences.** In submitting this bid proposal and in accordance with 2 CFR §200.322 Domestic preferences, you certify to the District that your company will, as appropriate and to the extent consistent with law, provide preference for the purchase and use of goods, products or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products).

The names and addresses of the entities that will perform the work identified below, subject to approval of ITD, if Undersigned is awarded the Contract, are as follows:

**Plumbing**
(Name) 
(Address) 
Idaho Public Works Contractors License No. 
Idaho Plumbing Contractors License No. 

**HVAC**
(Name) 
(Address) 
Idaho Public Works Contractors License No. 
Idaho HVAC Contractors License No. 

**Electrical**
(Name) 
(Address) 
Idaho Public Works Contractors License No. 
Idaho Electrical Contractors License No. 

Failure to name a properly licensed contractor in each of the above categories may render the bid unresponsive and void. *Please note that if the above trades do not apply to this bid package, empty lines should be noted as “Not Applicable” or “N/A”.

The State of Idaho policy prohibits purchase of asbestos products and asbestos containing materials for use in or on any facility, including personal and real property, where acceptable alternatives are
available. The contractor certifies by submission of this bid proposal that the products or materials to be furnished as a result of this bid are free of asbestos and hazardous materials.

**Execute as part of this bid form:**

**CONTRACTOR’S AFFIDAVIT
CONCERNING ALCOHOL AND DRUG-FREE WORKPLACE**

STATE OF _____________________

COUNTY OF _____________________

Pursuant to the Section 72-1717, Idaho Code, I, the undersigned, being duly sworn, depose and certify that ____________________ is in compliance with the provisions of Section 72-1717, Idaho Code; that ____________________ provides a drug-free workplace program that complies with the provisions of Title 72, Chapter 17, Idaho Code, and will maintain such program throughout the life of a state construction contract; and that ____________________ shall subcontract Work only to subcontractors meeting the requirements of Section 72-1717(1)(a), Idaho Code.

Name of Contractor

_____________________________________

Address

_____________________________________

City and State

_____________________________________

By: ________________________________

(Signature)

Subscribed and sworn to before me this ____________________ day of ____________________, ________.

_____________________________________

NOTARY PUBLIC

Residing at: ____________________________

Commission expires: ____________________

FAILURE TO EXECUTE THIS AFFIDAVIT AND SUBMIT IT ALONG WITH YOUR BID SHALL MAKE YOUR BID NON-RESPONSIVE.
This Executed Bid Form shall be an attachment to the Contract. The Undersigned notifies that he is of this date duly licensed as an Idaho Public Works Contractor and further that he possesses the following as applicable:

Idaho **Public Works** License: ___________________________  Exp. Date: ______________

Idaho **Contractor Registration**: _________________________

Dated this ____________ day of ____________, ____________.

(date)  (month)  (year)

Respectfully Submitted,

By: ________________________________________________
   (Company)

   ________________________________________________
   (Business Address)

   ________________________________________________
   (Authorized Signature)

   ________________________________________________
   (Printed Name & Title)

   ________________________________________________
   (Email Address)

   ________________________________________________
   (Telephone)    (Fax Number)

**PLEASE NOTE:**
- All bids are to be submitted in a sealed properly labeled envelope
- No lines are to be left blank (NA or “Not Applicable” may be used to complete empty lines)
- Bid Bond included at a rate of 5% of the total bid

**END OF SECTION 000300**
SECTION 000030.1 – ADVERTISEMENT FOR BIDS

PRIME CONTRACT PACKAGES for:
D231130 – D-1 Coeur d’Alene Laboratory Facility – Phase 2
Idaho Transportation Department (ITD), Coeur d’Alene, Idaho

Bid Packages shall consist of multiple individual trade scope packages that will be direct prime contracts with ITD. ITD has retained a CM Agent (Bateman-Hall, Inc.) to help coordinate the management of the overall project.

Each Prime Contractor will be required to cooperate and coordinate with the CM and all other Contractors to perform their work in accordance with a Master Project Schedule developed, updated, and maintained by the CM. Each Prime Contractor will be required to provide specified scheduling information necessary to maintain the Master Project Schedule and to meet the milestone completion dates as identified on the Bid Form and in each Prime Contract.

PROJECT SCOPE: New building for Asphalt and Concrete Testing Laboratory on District #1 Campus. The proposed facility is a single-story that is separated into four primary sections: office space, D-1 Lab area, a residency lab area, and storage area. The facility is to be constructed out of Concrete Masonry Construction and Light wood frame construction. The facility has concrete slab-on-grade floors and low sloped roofs. The roof are single ply roofing and metal roofing.

All work shall be performed in accordance with Contract Documents, Plans, Specifications, Department of Public Works Standards, The International Building Code, and as directed by the ITD Representatives.

BID PACKAGES Will be as per BID PACKAGE INDEX (Spec Section 000031.1).

Complete Bidding Documents will be available beginning May 23rd, 2024. Plans (on a CD) will be made available at no cost from Bateman-Hall, Inc. at 208-523-2681.

Plans can also be viewed or downloaded on smartbidnet.com. If you do not have a username and password, please send a request by email to bids@bateman-hall.com. Please include the following: Company Name, Contact Person, Phone Number, Fax or E-mail, Company Scope of Work, and States the company works in.

PRE-BID CONFERENCE: Will be held at 11:00 AM (PST) on Tuesday, June 11th, 2024, at the project location of ITD Coeur d’Alene Office, 600 W. Prairie AVE, Coeur D’Alene, ID 83814. Attendance is highly recommended.

COMMUNICATION: All communication is to be through Bateman-Hall, Inc. Requests for clarification or interpretation of the Bidding Documents must be in writing and received no later than June 13th, 2024, at 12:00 PM (PST). Questions received after the above-noted deadline may be answered at the discretion of the ITD Representative.
Revisions, additions, and deletions will be made by written addenda issued by the CM and/or Miller Stauffer Architects. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. Questions may be mailed, e-mailed, or faxed to:

Malone Bullock, Bateman-Hall, Inc.
P.O. Box 1464, Idaho Falls, Idaho 83403-1464
Phone: 208-523-2681 Fax: 208-524-4435
E-mail: Malone.bullock@bateman-hall.com

**BID DATE:** All bids are to be submitted in a sealed and labeled envelope on **Tuesday, June 25th, 2024.**

**BID TIMES - STAGGERD (Pacific Time Zone):** Bid due times will be staggered by bid package (identified below) and will be opened and read publicly immediately following the closing of each bid package.

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<tr>
<th>Bid Package (BP) #</th>
<th>BP Description</th>
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<td>BP-29 (FM12442)</td>
<td>Low Voltage / Data</td>
<td>01:44 59 PM (PST)</td>
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Each sealed envelope should be labeled with the following: **Company’s Name, Address, “Sealed Bid Enclosed for D231130”, Bid Package Name and Number.**

**Bids will be received only at:**
ITD District 1
ATTN: Front Desk, Drue Hatfield
600 W. Prairie
Coeur d’Alene, ID 83815

**FAXED OR EMAILED BIDS WILL NOT BE ACCEPTED.**
This Public Works project **IS NOT** financed in whole or in part by federal funds. Contractors will be required to pay not less than the minimum wage established by the Idaho Legislature or by the Department of Labor - State of Idaho that is in effect at the time the contract is awarded.

Contractors shall be licensed in the State of Idaho in accordance with the provisions of the **Idaho Public Works Contractors’ State License Law.**

The Owner reserves the right to accept or reject any and all proposals with or without cause, for any reason determined in its sole subjective determination to be in its best interest and to waive any informality in bidding.

ITD will determine whether to award the Contract within a period not to exceed forty-five (45) days from Bid Opening Date and will notify the Bidders of the determination. **All Bidders are expected to honor their proposals for the 45-day review period.**

**Bid Bond will be required** by Contractors for this project at the rate of **5% of the total bid** and is to be included in the sealed envelope. Form of Bid Bond must be in the form of a surety bond or may be a cashier’s check or money order made to the order of “Idaho Transportation Department” as outlined by Idaho Statutes for public work projects.

**Final Addendum will be issued on Friday, June 14th, 2024.**

-**END OF ADVERTISEMENT FOR BIDS**-
**SECTION 000031.1 – BID PACKAGE INDEX**

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BP-03  Irrigation & Landscaping FM#12417

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

  328400 – Planting Irrigation
  329113 – Soil Preparation
  323200 – Turf and Grasses
  329300 - Plants

Work to Include, but not limited to the supply and installation of:

Excavation and backfill required for own work;
Topsoil as needed for own scope of work;
Fine grading; Irrigation Sleeves; Irrigation Controls and wiring; Haul off excess materials/spoil;
Dust Control; SWPPP Maintenance of Own Work;
Clean-Up and Waste Disposal of own work;

BP-04  Fencing FM#12418

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

  323100 – Fences and Gates

Work to Include, but not limited to the supply and installation of:

Fencing, New gate and hardware per plans;
Concrete Pedestal for vehicle gate and exit loops;
BP-05  Building Concrete FM#12419

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
        Contract Documents
        Division 00 – Procurement and Contracting Requirements
        Division 01 – General Requirements

Applicable Spec Sections

033000 – Cast-In-Place Concrete – Structural
033500 – Concrete Finishing
034700 – Site Cast Concrete
071113 – Damp proofing
079200 – Joint Sealants

Work to Include, but not limited to the supply and installation of:

All concrete associated with the building; All site concrete (including rebar of own work);
Placement of all bollards (bollards supplied by steel package);
Under Slab Vapor barrier;
Equipment concrete pad;
Fine grading of Aggregate base course placed by others;
Concrete pumping (as required); Exposed concrete sack finishes (as required);
Installation of Rigid Insulation under slab and on perimeter foundation walls (Supplied by others);
Clean-Up and Waste Disposal of Own Work;
Expansion materials, Weather protection, as needed for own scope of work;

BP-06  Floor Sealer FM#12420

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
        Contract Documents
        Division 00 – Procurement and Contracting Requirements
        Division 01 – General Requirements

Applicable Spec Sections

079200 – Joint Sealants

Work to Include, but not limited to the supply and installation of:

Concrete Joint Filler;
Sealing of all expose concrete
BP-07  Masonry FM#12421

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  - Contract Documents
  - Division 00 – Procurement and Contracting Requirements
  - Division 01 – General Requirements

Applicable Spec Sections

- 034500 – Precast Architectural Concrete
- 042200 – Concrete Unit Masonry
- 079200 – Joint Sealants

Work to Include, but not limited to the supply and installation of:

- Reinforcing steel of own work; Weather protection, if needed;
- Installation of Masonry Lintels (provided by BP-08);
- Layout and Placement of embeds; Drill and epoxy masonry rebar in concrete;
- Installation of hollow metal frames in masonry walls;
- Masonry precast caps;
- Temporary Bracing as needed for own scope of work;
  - Block Filer, Sealers & Anti-Graffiti Coating scope of work by Bid Package 20;
- All masonry flashings; Joint Fillers;
- Masonry Insulation (Placement of insulation between Masonry walls);
- Pressure Washing of Masonry;
- Protection of adjacent work during construction; Haul offsite Excess Materials and Waste;
- Dust Control; SWPPP Maintenance and repairs for Own Work;
- Clean-Up and Waste Disposal of Own Work.
BP-08  Metal Fabrication (Supply & Installation) FM#12422

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

  Applicable Spec Sections

  051200 – Structural Steel Framing
  055000 – Metal Fabrications

Work to Include, but not limited to the supply and installation of:

  Supply of steel bollards (placement of all bollards by others);
  Bent Plate to wrap overhead doors;
  Masonry ledgers, angle iron and anchors;
  Gate at dumpster encloser;
  Exterior Canopies and anchors;
  Supply of Lintels & anchors for lintels (installation by BP-07 & BP-09)
  Roof Ladders;
BP-09 Framing/Lumber FM#12423

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

  061000 – Rough Carpentry
  061600 – Sheathing
  061753 – Shop-Fabricated Wood Trusses
  061800 – Glue-Laminated Construction
  072500 – Weather Barriers

Work to Include, but not limited to the supply and installation of:

  All necessary equipment & fasteners to complete installation of Rough Carpentry;
  All hardware & hangers;
  Backing & blocking for all toilets accessories, cabinets, shelving, & miscellaneous;
  Placement of Wood Trusses (supplied by BP-10);
  Placement of lintels for trusses;
  Wood nailer at parapet cap;
  Weather Barriers per plans;
  Provide and install HD hold-Downs;
  Layout of own work; Receiving and unloading of materials;
  Clean-up and Waste Disposal of own work
  FOB to jobsite; Idaho Sales Tax
BP-10 Wood Truss (Supply) FM#12424

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

061753 – Shop-Fabricated Wood Trusses

Work to Include, but not limited to the supply of:

Wood Trusses;
FOB to jobsite; Idaho Sales Tax

BP-11 Architectural Woodwork FM#12425

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

064023 – Interior Architecture Woodwork
064116 – Plastic-Laminate-Clad Architectural Cabinets;
066116 – Solid Surface Fabrications
123553 – Stainless Steel Laboratory Casework
123616 – Stainless Steel Countertops

Work to Include, but not limited to the supply and installation of:

Windowsills; Countertop Brackets; Clean-Up and Waste Disposal of Own Work.
Stainless Steel Countertops;
Metal Upper Cabinet Units;
Wood Trim;
Field Measurements for own work;
BP-12  Insulation FM#12426

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  - Contract Documents
    - Division 00 – Procurement and Contracting Requirements
    - Division 01 – General Requirements

  Applicable Spec Sections

    072100 – Thermal Insulation

Work to Include, but not limited to the supply and installation of:

Supply of rigid insulation for under slab and perimeter foundation walls (installed by BP-5);
Masonry wall insulation;
Batt Insulation and Sound Insulation;
Clean-Up and Waste Disposal of Own Work.

BP-13  Roofing FM#12427

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  - Contract Documents
    - Division 00 – Procurement and Contracting Requirements
    - Division 01 – General Requirements

  Applicable Spec Sections

    074113.19 – Concealed Fastener Metal Roof Panels
    074619 – Steel Siding
    075423 – Thermoplastic Polyolefin Roofing
    076200 – Sheet Metal Flashing and Trim

Work to Include, but not limited to the supply and installation of:

New roofing, gutters, downspouts, facia, trim, soffits and roofing insulation;
Standing seam metal roofing;
Walking Pads around equipment; Caulking of own work;
Metal Parapet Cap at Dumpster Encloser;
Roof Panels, Wall Panels & Siding;
Equipment Required to Perform Work; Clean-Up and Waste Disposal of Own Work.
BP-14 Doors, Frames, & Hardware (Supply & Install) FM#12428

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
Contract Documents
Division 00 – Procurement and Contracting Requirements
Division 01 – General Requirements

Applicable Spec Sections

081113 – Hollow Metal Doors and Frames
081416 – Flush Wood Doors
083116 – Access Panels and Doors
087111 – Door Hardware

Work to Include, but not limited to the supply and installation of:

Doors, frames and hardware; Knox Box;
Prep and Installation of all Door Frames (Frames in masonry will be Installed by Mason – Coordinate with Mason including foaming of the door frames for hardware prep.)
Access Doors;
Electric Strike hardware;
Include additional adjustment of hardware after three months of use;
Prep all doors and frames for paint (including bondo as needed);
Clean-Up and Waste Disposal of Own Work.

BP-15 Overhead Doors FM#12429

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
Contract Documents
Division 00 – Procurement and Contracting Requirements
Division 01 – General Requirements

Applicable Spec Sections

083300 – Insulated Rolling Service Doors

Work to Include, but not limited to the supply and installation of:

Overhead doors with motors; Weather stripping; Layout and Field Measurement of own work;
Angle Iron for door track;
Z-Type Lintel brush seal;
Clean-Up and Waste Disposal of Own Work.
BP-16  Storefront & Windows FM#12430

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
Contract Documents
Division 00 – Procurement and Contracting Requirements
Division 01 – General Requirements

Applicable Spec Sections
084100 – Entrances and Storefronts
087111 – Door Hardware
088000 – Glazing

Work to Include, but not limited to the supply and installation of:

Flashing & Break metal of own work where required;
Provide & installation of all glazing for all doors;
All caulking, sealants and material for windows/storefront including; Removal of all stickers;
Fire rated glazing where required; Include additional adjustment of hardware after three months of use;
Clean-Up and Waste Disposal of Own Work.

BP-17  Gypsum, Acoustical Ceiling, & FRP FM#12431

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
Contract Documents
Division 00 – Procurement and Contracting Requirements
Division 01 – General Requirements

Applicable Spec Sections
066400 – Plastic Paneling
092900 – Gypsum Wall Board
095300 – Acoustical Ceilings Suspension Assemblies

Work to Include, but not limited to the supply and installation of:

Cementitious Tile Backer;
FRP;
Clean-Up and Waste Disposal of Own Work.
BP-18  Resilient Flooring & Base FM#12432

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

096513 – Resilient Base and Accessories
096519 – Resilient Tile Flooring

Work to Include, but not limited to the supply and installation of:

Transitions to adjacent surfaces; Floor preparation;
Protection of work after installation;
Moisture Mitigation for Own Work;
Clean-Up and Waste Disposal of Own Work.

BP-19  Ceramic Tile FM#12445

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

093013 – Tiling

Work to Include, but not limited to the supply and installation of:

Transitions to adjacent surfaces;
Tile preparation;
Protection of work after installation;
Clean-Up and Waste Disposal of Own Work.
BP-20  Painting FM#12433

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

042200 – Concrete Unit Masonry (Block Filler, Sealers & Anti-Graffiti Coating)
099113 – Exterior Painting
099123 – Interior Painting

Work to Include, but not limited to the supply and installation of:

Painting of bollards; Caulking of HM frames prior to painting;
Clean, sand and prep all items prior to painting;
Block Filler, Sealers & Anti-Graffiti (All exposed masonry block);
Painting of gas piping;
Any necessary touch up painting required for steel; Protection of other work as necessary;
Clean-Up and Waste Disposal of Own Work (including any over-spray).

BP-21  Specialties FM#12434

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

101423 – Signage
102600 – Wall and Door Protection
102800 – Toilet, Bath, and Laundry Accessories
104413 – Fire Protection Cabinets
104416 – Fire Extinguisher

Work to Include, but not limited to the supply and installation of:

Protection of other work as necessary;
FOB job site; Idaho State Sales Tax
BP-22  Window Blinds FM#12435

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
Contract Documents
Division 00 – Procurement and Contracting Requirements
Division 01 – General Requirements

Applicable Spec Sections

122400 – Window Shades

Work to Include, but not limited to the supply and installation of:

Protection of other work as necessary;
Clean-Up of Own Work;

BP-23  Fire Sprinkler FM#12436

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
Contract Documents
Division 00 – Procurement and Contracting Requirements
Division 01 – General Requirements

Applicable Spec Sections

21000 – Fire Suppression

Work to Include, but not limited to the supply and installation of:

Design; Shop drawings, Permit approval, and Fees; Fire Water Connection and Line into Building;
Installation for fire riser into building, include excavation, backfill and pouring of thrust blocks;
Fire caulking and fire stopping for own penetrations;
Protection of heads after install and removal of protection at substantial completion;
Commissioning and Start Up Reports;
Clean-Up and Waste Disposal of Own Work.
BP-24  Plumbing FM#12437

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

  Applicable Spec Sections
  Division 22 - Plumbing

Work to Include, but not limited to the supply and installation of

Plumbing complete; Permits and Fees;
Utilities from 5’ Outside of Building;
Excavation and backfill of own work; Spoil pile remove of own work; Trench Drains; Gas piping;
Seismic bracing per code requirements;
Roof drains connection to storm drain system;
Condensation lines for own plumbing equipment;
Core drilling, saw cutting, grouting, caulking and fire Stopping for own penetrations;
All Plumbing Fixtures;
Commissioning and Start Up Reports;
Clean-Up of Own Work;
BP-25  HVAC FM#12438

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
   Contract Documents
      Division 00 – Procurement and Contracting Requirements
      Division 01 – General Requirements

   Applicable Spec Sections
      Division 23 - HVAC

Work to Include, but not limited to the supply and installation of:

   Mechanical complete; Permits and Fees;
   Seismic bracing per code requirements;
   Condensation lines for own equipment;
   Core drilling, saw cutting, grouting, caulking and fire Stopping for own penetrations;
   Roof curbs for mechanical equipment; HVAC controls;
   All Mechanical Fixtures; Commissioning and Start Up Reports;
   Complete hydronic System;
   Commissioning Plan by Design Professional;
   Test and Balancing with Reports; Clean-Up of Own Work;
BP-26  Building Electrical FM#12439

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
   Contract Documents
   Division 00 – Procurement and Contracting Requirements
   Division 01 – General Requirements

Applicable Spec Sections
   Division 260000 – Electrical

Work to Include, but not limited to the supply and installation of:

- Electrical Permits and Fees; Coordination with Power Company for services needed;
- All trenching, backfill conduits and concrete associated with new service;
- Excavation and backfill of own work; Removal of own spoil piles;
- Heating cable for roof drains, gutters, & downspouts as called in drawings;
- Core drilling, saw cutting, grouting, caulking and fire caulking for own penetrations;
- Underground electrical conduits are to be placed under the slab gravel;
- Electrical Pedestal per architectural sheets;
- All race ways (conduit) for fire alarm, access control, and low voltage;

Race ways for access control to vehicle gate and man gate;
Power to gate openers;
DBS/DAS System;
Blocking for electrical items; Seismic bracing per code requirements;
Low voltage wiring; Clean-Up of Own Work;

BP-27  Access Control FM#12440

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
   Contract Documents
   Division 00 – Procurement and Contracting Requirements
   Division 01 – General Requirements

Applicable Spec Sections
   260500 – Electrical General Provisions
   281300 – Access Control

Work to Include, but not limited to the supply and installation of:

- All wire, devices, and controls for system;
- Wire & devices for vehicle gate and man gate;
BP-28 Fire Alarm FM#12441 – To be Bid at a later date

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

260500 – Electrical General Provisions
284600 – Fire Alarm

Work to Include, but not limited to the supply and installation of:

Include all components, wiring, and conduit;

BP-29 Low Voltage / Data FM#12442

Supply and Installation per Contract Documents
Including all drawings and the following specifications:
  Contract Documents
  Division 00 – Procurement and Contracting Requirements
  Division 01 – General Requirements

Applicable Spec Sections

260500 – Electrical General Provisions
Division 270000 - Communications

Work to Include, but not limited to the supply and installation of:

All wiring and devices;

END OF SECTION 000031
EGRESS TRAVEL DISTANCE  = 44'-9"
EGRESS TRAVEL DISTANCE  = 73'-7"
EGRESS TRAVEL DISTANCE  = 27'-3"
EGRESS TRAVEL DISTANCE  = 49'-7"
EGRESS TRAVEL DISTANCE  = 51'-1"

Room Numbers:
- 114 Office 170 SF  B/150  1 OCC
- 110 Open Office 674 SF  B/150  4 OCC
- 116 Office 170 SF  B/150  1 OCC
- 113 Office Mechanical 73 SF  S/300  0 OCC
- 112 IT 62 SF  S/300  0 OCC
- 111 Electrical 75 SF  S/300  0 OCC
- 119 Lab Mechanical 160 SF  S/300  0 OCC
- 118 Material Lab 249 SF  B/150  2 OCC
- 117 Asphalt Lab 404 SF  B/150  3 OCC
- 124 Asphalt Lab 404 SF  B/150  3 OCC
- 126 Material Lab 327 SF  B/150  2 OCC
- 123 D-1 Lab 895 SF  B/150  6 OCC
- 131 Residency Lab 768 SF  B/150  5 OCC
- 130 Residency Noise Room 111 SF  B/150  1 OCC
- 127 Enclosed Material Storage 420 SF  S/300  1 OCC

Area and Occupancy:
- 1 Room: 114 Office 170 SF  1 OCC
- 2 Rooms: 110 Open Office 674 SF  4 OCC
- 3 Rooms: 116 Office 170 SF  1 OCC
- 4 Rooms: 113 Office Mechanical 73 SF  0 OCC
- 5 Rooms: 112 IT 62 SF  0 OCC
- 6 Rooms: 111 Electrical 75 SF  0 OCC
- 7 Rooms: 119 Lab Mechanical 160 SF  0 OCC
- 8 Rooms: 118 Material Lab 249 SF  2 OCC
- 9 Rooms: 117 Asphalt Lab 404 SF  3 OCC
- 10 Rooms: 124 Asphalt Lab 404 SF  3 OCC
- 11 Rooms: 126 Material Lab 327 SF  2 OCC
- 12 Rooms: 123 D-1 Lab 895 SF  6 OCC
- 13 Rooms: 131 Residency Lab 768 SF  5 OCC
- 14 Rooms: 130 Residency Noise Room 111 SF  1 OCC
- 15 Rooms: 127 Enclosed Material Storage 420 SF  1 OCC

General Notes:
1. EXITING CLEAR WIDTH:
   A.1. FOR 36" NOMINAL DOOR = 33.5" CLEAR
   A.2. FOR 36" NOMINAL STOREFRONT DOOR = 33" CLEAR

2. FIRE EXTINGUISHER REQUIREMENTS:
   PROVIDE 1 PER 75'-0" OF TRAVEL DISTANCE. APPROVED FIRE EXTINGUISHER AS FOLLOWS (INTERNATIONAL FIRE CODE SECTION 906): REFER TO SHEET A2.4 FOR LOCATIONS
   B.1. DURING CONSTRUCTION: FIRE EXTINGUISHER TYPE 2-A SHALL BE PROVIDED FOR EACH 3,000 SF OF THE PROTECTED BUILDING AREA, AT EVERY STORAGE AND CONSTRUCTION SHED AND AS DIRECTED BY THE CITY FIRE MARSHAL.

License Information:
- ARCHITECT
  - G1.1
  - 314 MJH
  - MICHAEL P. WALKER
  - 5/13/2024
  - MPW
  - AR-984931

- LIFE SAFETY PLAN
  - LIFET: D-1 Laboratory
  - 600 W. Prairie Ave
  - Coeur d'Alene, Idaho 83814
  - 05/13/2024
  - 05/23/24
KEYED NOTES:

1. INSTALL COMBINATION TEMPERATURE & HUMIDITY SENSOR ON ABOVE. TRANSITION AND CONNECT TO AIR HANDLING UNIT.
2. PROVIDE DUCT SMOKE DETECTOR ON RETURN DUCT.
3. ROUTE OF RETURN DUCTS TO PERIPHERAL AND CONNECT TO PERIPHERAL DUCT.
4. ROUTE DUCTWORK TO Duct junction boxes. Route Ductwork through Duct vents and Duct wall connections. Route Ductwork through Duct wall connections.
5. PROVIDE DUCT SMOKE DETECTOR ON RETURN DUCT.
6. ROUTE DUCTWORK TO Duct junction boxes. Route Ductwork through Duct vents and Duct wall connections. Route Ductwork through Duct wall connections.
7. COORDINATE LOCATION OF DDC PANELS WITH DDC CONTRACTOR PRIOR TO INSTALLATION.
8. ROUTE 58"X22" SUPPLY DUCTWORK UP TO AIR HANDLER ON ROOF. SEE HVAC ROOF PLAN FOR CONTINUATION.
9. INSTALLATION.
10. ROUTE SUPPLY DUCTWORK MAIN TIGHT TO STRUCTURE.
11. PROVIDE DUCT SMOKE DETECTOR ON RETURN DUCT.
12. ROUTE DUCTWORK TO Duct junction boxes. Route Ductwork through Duct vents and Duct wall connections. Route Ductwork through Duct wall connections.

LAB EQUIPMENT LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>23239</td>
<td>HVAC Floor Plan</td>
<td>6/11/24</td>
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</table>

LAB EQUIPMENT LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>23239</td>
<td>HVAC Floor Plan</td>
<td>6/11/24</td>
</tr>
</tbody>
</table>
KEYED NOTES:
1. SEE HOT WATER COIL PIPING DETAIL FOR INSTALLATION REQUIREMENTS.
2. ROUTE 3" STEAM LINE UP TO HUMIDIFIER IN AIR HANDLING UNIT ON ROOF. SEE ROOF PLAN FOR CONTINUATION.
3. SLOPE STEAM LINE AT 1" PER FOOT AWAY FROM HUMIDIFICATION COIL IN AIR HANDLING UNIT ON ROOF.
KEYED NOTES:
1. ROUTE CONCENTRIC VENT FROM FLOOR BELOW. SEAL ROOF PENETRATION.
2. ROUTE 8" ROUND FROM FLOOR BELOW AND TERMINATE WITH ROOF CAP.
3. INSTALL CONDENSING UNIT ON MIRO STAND PLATFORM PER DETAIL. INSTALL CONDENSING UNIT ON MIRO STAND PLATFORM PER DETAIL. INSTALL CONDENSING UNIT ON MIRO STAND PLATFORM PER DETAIL. INSTALL CONDENSING UNIT ON MIRO STAND PLATFORM PER DETAIL.
4. ROUTE 3" STEAM LINE FROM FLOOR BELOW. SEE HYDRONIC FLOOR PLAN FOR CONTINUATION. CONNECT TO AIR HANDLING UNIT AS REQUIRED.
5. ROUTE 3" FLUE AND INTAKE VENT FROM FLOOR BELOW. SEE FLOOR PLAN FOR CONTINUATION. PROVIDE GOOSENECK TURNDOWN ON INTAKE PER MANUFACTURER INSTALLATION REQUIREMENTS.
6. ROUTE CONCENTRIC VENT FROM BOILER BELOW. PROVIDE WITH ROOF TERMINATION KIT. SEE FLOOR PLAN FOR CONTINUATION. PROVIDE GOOSENECK TURNDOWN ON INTAKE PER MANUFACTURER INSTALLATION REQUIREMENTS.
7. AIR HANDLING UNIT INSTALLED ON ROOF CURB. SEE ROOF CURB DETAIL FOR INSTALLATION REQUIREMENTS.
8. SEE PENTHOUSE MOUNTING DETAIL FOR INSTALLATION REQUIREMENTS.
9. SEE EXHAUST FAN FLAT ROOF MOUNTING DETAIL FOR INSTALLATION REQUIREMENTS.
REMARKS:
3. BOILER SHALL BE PROVIDED W/FACTORY START-UP, START-UP IS NOT COMPLETE UNTIL ALL BURNERS AND BLOWER ARE CALIBRATED FOR PEAK PERFORMANCE AND AT COMPLETION OF PROJECT ALL BURNERS, BLOWERS, HEAT EXCHANGERS, AND OTHER

5. PROVIDE BACnet INTEGRATION CARD. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

4. CAPACITIES BASED ON 100% WATER.

3. CAPACITIES BASED ON 2,200 FEET ELEVATION.

5. COORDINATE THE REQUIRED FLOW RATE W/ THE ACTUAL HOT WATER COILS PROVIDED.

HC-6
HC-3
HC-2
HC-9
HC-8

SYMBOL HOT WATER
CV-6
CV-3
CV-4
CV-2

SOIL/AGGREGATE 126 / SAV-2

HOT WATER LOOP 95% NATURAL GAS 120.0 140.0 27.0 5.0 285 265 LOCHINVAR KHB285N 1, 2, 3, 4

D-1 LAB 123 / SAV-4

HC-9
HC-8

HC-1

ASPHALT LAB 117 / SV-7

D-1 LAB 123 / SAV-4

HC-3
HC-2

HC-1

(°F)

FIELD ADJUSTABLE CONTROL

FIELD ADJUSTABLE CONTROL

FIELD ADJUSTABLE CONTROL

FIELD ADJUSTABLE CONTROL

VALVE W/ 100% AUTHORITY

VALVE W/ 100% AUTHORITY

VALVE W/ 100% AUTHORITY

VALVE W/ 100% AUTHORITY

PRESSURE INDEPENDENT

L.A.T. (°F)

AIR P.D. (IN W.C.)

E.W.T. (°F)

FLUID PERFORMANCE

MODULATING

MODULATING

MODULATING

2-WAY

2-WAY

2-WAY

GLOBAL

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### Electric Heater Schedule

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>Lt Type</th>
<th>MANUFACTURER AND MODEL</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>E</td>
<td>600 WATTS</td>
<td>1.250</td>
<td>DIAL-TEMP 1</td>
<td>1, 2, 3, 4</td>
</tr>
</tbody>
</table>

1. PROVIDE INTEGRAL THERMOSTAT. UNIT TO BE STANDALONE AND NOT CONTROLLED BY DDC.
2. MOUNT BOTTOM OF HEATER 24" ABOVE FINISH FLOOR.
3. PROVIDE WITH WALL SUSPENSION BRACKET MOUNTED APPROXIMATELY 9'-0" ABOVE FINISH FLOOR.

### Mechanical Specialty Equipment Schedule

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>Lt Type</th>
<th>MANUFACTURER AND MODEL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>AIR-REMOVAL UNIT</td>
<td>1.250</td>
<td>CARRIER 24SCA460</td>
<td>1, 2, 3, 4</td>
</tr>
</tbody>
</table>

1. APPROVED ALTERNATE MANUFACTURERS: BRASCH, QMARK, INDEECO, OUELLET, AND CHROMALOX.
2. PROVIDE UNIT WITH MATCHING COOLING COIL, FIELD INSTALLED HARD START FOR SINGLE PHASE UNITS, SHORT CYCLE PROTECTION, CRANKCASE HEATER, EXPANSION VALVE, HIGH/LOW PRESSURE SWITCH, NEUTRALIZING KIT - 3/4" LINE SIZE, LOW PRESSURE DROP DEVICES, SCROLL COMpressor, AND SPECIALukoNS.
3. PROVIDE WITH FLANGED FRAME, BIRD SCREEN, AND 120V/Ø LOW LEAKAGE MOTORIZED DAMPER.
4. COLOR TO BE SELECTED BY ARCHITECT.

### Sound Attenuator Schedule

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>Lt Type</th>
<th>MANUFACTURER AND MODEL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>FIXTURE</td>
<td>63 125 250 500 1000 2000 4000 8000</td>
<td>RUSKIN ELF6375DX</td>
<td>1, 2, 3, 4</td>
</tr>
</tbody>
</table>

1. APPROVED ALTERNATE MANUFACTURERS: TACO, ARMSTRONG, AND PACO.

### Penthousen Schedule

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER AND MODEL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>115 HIGH WALL</td>
<td>VIBRO ACOUSTICS</td>
<td>RED-UHV-F9</td>
</tr>
</tbody>
</table>

1. APPROVED ALTERNATE MANUFACTURERS: GREENHECK, AMERICAN WARMING, LOUVERS & DAMPERS, ARROW UNITED, NAILOR, POTTER, AND UNITED ENERTECH.
2. COLOR TO BE SELECTED BY ARCHITECT.
3. PROVIDE WITH DISCONNECT.

### Louver Schedule

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER AND MODEL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>13,000</td>
<td>RED-UHV-F9</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

1. APPROVED ALTERNATE MANUFACTURERS: TRANE, LENNOX, DAIKIN AND YORK.
2. COLOR TO BE SELECTED BY ARCHITECT.

### Ductless Split High Wall Cooling Unit Schedule

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER AND MODEL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>13,000</td>
<td>RED-UHV-F9</td>
<td>1, 2</td>
</tr>
</tbody>
</table>

1. APPROVED ALTERNATE MANUFACTURERS: BRASCH, QMARK, INDEECO, OUELLET, AND CHROMALOX.
2. PROVIDE UNIT WITH INTEGRAL THERMOSTAT. UNIT TO BE STANDALONE AND NOT CONTROLLED BY DDC.
3. PROVIDE WITH WALL SUSPENSION BRACKET MOUNTED APPROXIMATELY 9'-0" ABOVE FINISH FLOOR.
4. MOUNT BOTTOM OF HEATER 24" ABOVE FINISH FLOOR.
5. PROVIDE WITH INTEGRAL THERMOSTAT. UNIT TO BE STANDALONE AND NOT CONTROLLED BY DDC.
6. ELECTRICAL TO PROVIDE DISCONNECT.
**HEATING WATER SYSTEM SEQUENCE OF OPERATION**

When the outside air temperature decreases to the heating enable set point for a period of 10 seconds, the DDC controller shall sequence the following:

1. **Send a disable command to the boiler system's unit controller.**
2. **Send an enable command to the bypass control valve.**
3. **Enable the heating water bypass control valve.**
4. **Validate the status of the valve through the current sensing relay.**
5. **Validate the running status through the controller.**
6. **Set the VFD point to 0% if either the lead or lag pump fails to start.**
7. **Set the flow rate to 0 if either pump fails to start.**
8. **Set the status to 0 if either pump fails to start.**

When the above condition is met, the DDC controller shall sequence the following:

1. **Set the VFD point to 0% if the lead pump fails to start.**
2. **Set the flow rate to 0 if the lead pump fails to start.**
3. **Set the status to 0 if the lead pump fails to start.**
4. **Set the VFD point to 0% if the lag pump fails to start.**
5. **Set the flow rate to 0 if the lag pump fails to start.**
6. **Set the status to 0 if the lag pump fails to start.**

**HEATING WATER SYSTEM CONTROL SCHEMATIC**

- **BYPASS CONTROL VALVE**
- **HEATING WATER BYPASS CONTROL VALVE (LOW FLOW CONTROL MODE):**
  - The bypass control valve shall be enabled whenever one of the following conditions is met:
    1. The outside air temperature decreases to the heating enable set point for a period of 10 seconds.
    2. Each boiler shall disable the respective boiler pump.
    3. The VFD control interface shall provide but not be limited to the following:
      - Status.
      - Capacity feedback.
      - Alarms.
      - Enable/disable.
- **HEATING WATER PUMPS (2) HEATING WATER PUMPS W/ VFDS (LEAD / STANDBY OPERATION), A FLOW METER, AND A BACNET CONNECTION:**
  - The heating water pumps shall be first enabled.
  - The bypass control valve shall be enabled whenever one of the following conditions is met:
    1. The heating water pumps and first enabled.
    2. The bypass control valve shall be enabled whenever one of the following conditions is met:
      - The outside air temperature decreases to the heating enable set point for a period of 10 seconds.
      - Each boiler shall disable the respective boiler pump.
      - The VFD control interface shall provide but not be limited to the following:
        - Status.
        - Capacity feedback.
        - Alarms.
        - Enable/disable.
- **CONTROL PANEL BOILER (UCP):**
  - The control panel shall provide lead/lag control as well as an automatic rotation of the lead pump based on the month. The even-numbered pump shall be the lead pump, and the odd-numbered pump shall be the lag pump. The DDC controller shall send the unit control panel temperature setpoint to the lead pump and the manual override.
KEYED NOTES:

1. ROUTE 2" WATER LINE UP FROM FLOOR BELOW. SEE FOUNDATION TERMINAL FOR WATER SUPPLY. TERMINATE 120°F MIXING VALVE TO FEED EQ-11.

2. ROUTE 1/2" CA LINE DOWN WALL AND CONNECT TO LAB EQUIPMENT. SUPPORT PIPE ON WALL WITH BRACKETS.

3. ELECTRONIC TRAP PRIMER LOCATED ON WALL. ROUTE 3/4" CW TO BATHROOM FIXTURE. SUPPORT PIPE ON WALL WITH BRACKETS. TERMINATE INDIRECTLY.

4. GAS METER FURNISHED AND INSTALLED BY LOCAL GAS COMPANY.

5. ROUTE GAS LINE UP THROUGH ROOF TO UNIT ON ROOF. SEE ROOF PLAN FOR CONTINUATION.

6. ROUTE 1/2" HW FROM US-1 TO RPBP AND CONNECT TO EQ-29.

7. ROUTE 1 1/2" CW TO RESIDING LAB HP.

8. ROUTE EXPOSED CW & HW PIPING DOWN WALL TO PLUMBING ROOM.

9. ROUTE 3/4" CW & HW DOWN TO RPBP'S. CONNECT TO LAB EQUIPMENT.

10. ELECTRONIC TRAP PRIMER LOCATED ON WALL. ROUTE 3/4" CW TO JANITOR SHOWER.

11. ROUTE LAB STORAGE TO EQ-33. PROVIDE WITH MANUAL SHUTOFF VALVE.

12. ROUTE 4" RD & OD DOWN WALL IN ELECTRICAL ROOM. COORDINATE WITH OTHER TRADES PRIOR TO FINAL INSTALLATION.

13. ELECTRONIC TRAP PRIMER LOCATED ON WALL. ROUTE 3/4" CW TO EYE WASHERS. SUPPORT PIPE ON WALL WITH BRACKETS.

14. ROUTE 1" CW UP TO ROOF HYDRANT ON ROOF ABOVE. SEE ROOF PLAN FOR CONTINUATION.

15. ROUTE 7/8" PVC LINE TO EYE WASHERS. SUPPORT PIPE ON WALL WITH BRACKETS.

16. ROUTE 1/2" PVC LINE TO BUCKET ROOM. SUPPORT PIPE ON WALL WITH BRACKETS.

17. ROUTE EXPOSED CW DOWN WALL. COORDINATE WITH ALL OTHER TRADES ON WALL PRIOR TO INSTALLATION.

18. ROUTE EXPOSED NPCW DOWN AND CONNECT TO LAB EQUIPMENT.

19. ROUTE TRAP PRIMER TO EQ-34. PROVIDE WITH MANUAL SHUTOFF VALVE.

20. PROVIDE MIXING VALVE SET TO 120°F TO FEED EQ-11.

LAB EQUIPMENT LIST

PLUMBING FLOOR PLAN
### LAB EQUIPMENT LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GROUND FAULT INTERRUPTING CIRCUIT</td>
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<tr>
<td>2</td>
<td>USB DUPLEX RECEPTACLE.</td>
<td></td>
</tr>
</tbody>
</table>

**KEY NOTES:**

1. See Sheet E5.0 for Electrical Gear Information.
2. Circuit to power HVAC and plumbing.
3. Provide and install 30A/3P secondary circuit breaker installed in electrical panel. Use Wiremold for surface mounted raceways. Where approved utilize Wiremold or approved equal surface mounted raceways. Where approved utilize Wiremold or approved equal surface mounted raceways. Where approved utilize Wiremold or approved equal surface mounted raceways. Where approved utilize Wiremold or approved equal surface mounted raceways.
4. General Notes:
   - The electrical drawings are not indicated on this sheet. Where the specific outlet height is not indicated on this sheet, please consult the architect for each location. The electrical drawings are not indicated on this sheet. Where the specific outlet height is not indicated on this sheet, please consult the architect for each location.
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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.
#4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL HEAT TAPE TO EXPOSED DRAINAGE PIPE ON AHU-1.

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 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.

GENERAL NOTES:
KEYED NOTES:
1. SEE SHEET E6.0 FOR THERMOSTAT ROUGH-IN ELEVATION DETAIL.
2. SUITE MECHANICAL EQUIPMENT.
3. MEASURE AS-LAY 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.
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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 WATTSTOPE, LUTRON, LEGRAND, AND EATON WILL BE ACCEPTED

SWITCH AND OCCUPANCY SENSOR LEGEND

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Allen Halversen, PE
05/13/2024

Note: Substitutions will be allowed if submitted prior to BID date by the Owner or if requested in writing by the Contractor. The Contractor is responsible for obtaining substituted futures. Approval of the Architect for all substitutions.

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Allen Halversen, PE
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1. **EXISTING AVISTA POWER UTILITY ELECTRICAL POLE. PRESERVE AND PROTECT.**

2. **PROPOSED LOCATION OF NEW AVISTA POWER UTILITY 3-PHASE PADMOUNTED JUNCTION ENCLOSURE.**

3. **PROPOSED LOCATION OF NEW AVISTA POWER UTILITY 3-PHASE ELECTRICAL TRANSFORMER.**

4. **PROPOSED LOCATION OF NEW AVISTA POWER UTILITY C.T CABINET AND METER BASE. C.T. CABINET, METER BASE, ITD OWNED DATA PULL BOX AND ITD OWNED PANEL TO BE INSTALLED ONTO 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 ONTO UNITSTRUT RACK. RACK TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.**

6. **NEW ITD 24" X 36" COMMUNICATION VAULT. MAKE: OLDCASTLE MODEL: 24X36 OR EQUAL.**

7. **PROPOSED LOCATION FOR NEW STAMD-BY 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 FUSED 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.**

13. **NEW TELEPHONE BACKBOARD. SEE SHEET E6.0 FOR MORE INFORMATION.**

14. **PROPOSED LOCATION OF NEW AVISTA POWER UTILITY 1-PHASE ELECTRICAL TRANSFORMER.**

15. **PROPOSED LOCATION FOR NEW EQUIPMENT POWER RACK. SEE SHEET ES1.2 FOR MORE INFORMATION.**

16. **POWER AND DATA CONDUITS TO ELECTRIC GATE.**

17. **NEW WATER LINE. SEE CIVIL DRAWINGS FOR MORE INFORMATION.**

18. **NEW GAS LINE. SEE CIVIL DRAWINGS FOR MORE INFORMATION.**

19. **NEW SANITARY SEWER 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.**

22. **CONDUIT TO GATE KEYPAD.**
KEYED NOTES:

1. 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. TRAILER DISCONNECT 200A/2P PIN & SLEEVE

7. PANEL & JUNCTION BOX

8. LED YARD LIGHT LED YARD LIGHT

9. METAL TAB UNISTRUT BALLARD

10. SOURCES}

11. 6" BOLLARD FILLED WITH CONCRETE PAINT 'SAFETY YELLOW'

12. TYP. 2 YARD LIGHT TO EXTEND 2'-0" IN DIRECTION OF CABINET FACE

13. 200A NON-FUSED TRAILER DISCONNECT

14. DATA CABINET NEMA 3R (LOCATED ON OTHER SIDE)

15. 2"C FOR DATA NEMA 3R MLO 400A PANELBOARD FROM PANEL MST GROUND PHOTOCCELL SENSOR TYP. 2 YARD LIGHT TO EXTEND 2'-0" IN DIRECTION OF CABINET FACE

16. EXTERIOR RATED SWITCH CONDUIT ARM (MIN. 3' VERTICAL HEIGHT ABOVE RACK) SECURE TO VERTICAL CHANNEL STRUT ON EQUIPMENT RACK. USE ADDITIONAL SUPPORT IF NECESSARY.