

Address:

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ALSEA SCHOOL DISTRICT 301 SOUTH 3rd STREET ALSEA, OREGON 97324

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ELECTRICAL ENGINEER:

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Tyson McFall, P.E., Principal Office: 208-703-9440 Email: Tyson@v-engineering.com

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CBSE STRUCTURAL ENGINEERING 1202 Adams Avenue LaGrande, Oregon 97850

Contact: Derek Howard *Office:* 541.786.5315 Email: dhoward@cbconst.us

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CIVIL ENGINE

| 4    |                              | 3   |  |
|------|------------------------------|---|--|
|      | SHEET                        | SCHEDULE:   | NOT FOR  |
|      | A0.0                         | Cover Sheet   | CONSTRUCTION<br>PRØGRESS /   |
|      | CIVIL                        |   | COORDINATION   |
|      | C-1<br>C-2<br>FP-1           | Site Topographical Survey - Existing<br>Site Topographical Survey - Existing<br>Flood Plain Map                                 |  |
|      | ARCHITEC                     | CTURAL  |  |
|      | A0.2<br>A0.3<br>A0.4<br>A0.5 | Site Plan - Overall Overlay & Phasing<br>Site Plan - Enlarged Existing & Demolition<br>Site Plan - Enlarged New<br>Site Details | 24<br>24   |
|      | A1.1<br>A1.2                 | Building Code Analysis<br>Building Envelope Energy Analysis   | TH 3rd STRE<br>REGON 973   |
|      | A2.1<br>A2.2                 | Floor Plan - ADA Ramp & Stairs<br>Details - ADA Ramp & Stairs   | IDI SOUT   |
|      | A3.1                         | Floor Plan & Dimension Plan   | ωď   |
|      | A5.1                         | Exterior Elevations   |  |
|      | A7.1<br>A7.2<br>A7.3<br>A7.4 | Building Sections A & B<br>Building Sections 1, 2, & 3<br>Wall Sections<br>Wall Sections  | LDING  |
|      | Α7.5                         | Wall Sections<br>Horizontal Walls Sections & Details  |  |
|      | A10.1                        | Millwork Cabinets   | STI<br>V E   |
|      | ELECTRIC                     | 4 <i>L</i>  |  |
|      | MECHAN                       | ICAL & PLUMBING   | ALSEA SCHOO<br>1c.11: CLASSR   |
|      |                              |   | CB Construction<br>LaGrande, OR 97850  |
|      | DEFERREL                     | D SUBMITTALS:   | WODEN<br>WODEN<br>SCHOOL   |
|      | 1. FIRE ALA                  | ARM SYSTEM  |  |
|      | 2. FLAG PC                   | DLE FOUNDATION  | TRAJGHTLIN<br>ARCHITEC<br>ARCHITEC<br>ARCHITEC<br>ARCHITEC<br>ARCHITEC<br>ARCHITEC<br>ARCHITEC<br>ARCHITEC<br>ARCHITEC                                 |
| EER: | VICINITY MAP:                |   | Date: 1-13-2022<br>Project: ALS-1821<br>Version History: V1.0<br>PHASES (PH): 1c.11<br>ISSUE: 1-13-22<br>98% FINAL COORD<br>DRAWING NO.<br>Cover sheet |
| 4    |                              | 3   |  |





![](_page_2_Figure_1.jpeg)

![](_page_3_Figure_0.jpeg)

|                 | 3 2  |   |   |
|-----------------|--|---|---|
|                 | General Notes         APPLICABLE TO THIS SHEET ONLY       (X")       Height Above Fin. Floor         1 - CROSS SLOPE ALL NEW       (NIC)       Not in Contract         EXTERIOR CONCRETE PAVING TO       (UNO)       Unless Noted         DRAIN       Otherwise       (X)  | NOT FOR<br>CONSTRUCTION<br>PROGRESS /<br>COORDINATION<br>SET ONLY   | E |
|                 | 2 - THE CONTRACTOR SHALL<br>RESTORE ALL DISTURBED (FFE) Existing Fin. Floor Elev.<br>LANDSCAPING TO ITS ORIGINAL (FF) New Fin. Floor Elev.<br>CONDITION AT PROJECT (TOW) Top of Foundation Wall<br>COMPLETION.   |   |   |
|                 | 3 - PROJECT STAGING AREA AND<br>SITE ACCESS WILL BE DISCUSSED<br>AT THE ON-SITE PRE-BID MEETING  |   |   |
|                 | Joint     New elevations       90.0     New elevations       90.0     Existing elevations  |   |   |
|                 | Keyed Notes<br>Applicable to this Sheet Only<br>NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE<br>THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED<br>DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED<br>CONDITION SHOWN ON THE PROJECT DOCUMENTS.   | 301 SOUTH 3rd STREET<br>ALSEA, OREGON 97324   | D |
|                 | DEMOLITION & EXISTING NOTES:NEW WORK NOTES:AEXISTING SANITARY SEWER -<br>DO NOT DISTURB.(N) SANITARY SEWER LINE -<br>4" ID., ABS/PVC (AS PER CITY<br>REQUIREMENT) SLOPE NO LESS<br>THAN 1:100 & NO MORE THAN<br>20%, MAINTAIN 3' GROUND<br>COVER MINIMUM. ROUTE AS<br>SHOWN TO AVOID OLD<br>GROWTH TREES.CSAW CUT CONCRETE & DEMOLISH<br>SIDE WALK - SAW CUT AS SHOWN<br>& READY FOR NEW CONCRETENEW WORK NOTES:   | DNI   |   |
| <br>-<br>-<br>- | <ul> <li>SIDEWALK, SEE NEW SITE PLAN.</li> <li>D (D) EXISTING CHAIN LINK FENCE-<br/>REMOVE CHAIN LINK FENCE,<br/>DISPOSE / GIVE OWNER SALVAGE<br/>OPTION</li> <li>E (D) TREES - REMOVE (E) TREES<br/>&amp; ROOTS AS REQUIRED FOR<br/>NEW CONSTRUCTION.</li> <li>SANITARY SEWER LINE<br/>CONNECTION - PROVIDE<br/>CONNECTION - PROVIDE<br/>CONNECTION - PROVIDE<br/>CONNECTION TO CITY UTILITY<br/>SEWER LINE. CONNECTION POINT<br/>IT MADE DOWNSTREAM FROM<br/>LIFT STATION, VERIFY<br/>REQUIREMENTS OF CONNECTION<br/>WITH CITY.</li> <li>(N) DOMESTIC WATER - NEW</li> </ul>   | ISTRICT<br>M BUILD  | С |
| A               | <ul> <li>(D) WATER SPIGOT - REMOVE<br/>EXISTING IRRIGATION FREEZE<br/>PROOF SPIGOT, GIVE OWNER<br/>SALVAGE OPTION</li> <li>(G) EXISTING STORM SEWER -<br/>PIPES, GRATES, VAULTS, DO NOT<br/>DISTURB.</li> <li>(H) (D) ADA RAMP &amp; STAIRS -<br/>DEMOLISH &amp; STOCKPILE WOOD</li> <li>(J) ADA RAMP &amp; STAIRS -<br/>DEMOLISH &amp; STOCKPILE WOOD</li> <li>(A) LINE OF NEW CONSTRUCTIO I<br/>SHOWN FOR GRAPHICAL</li> </ul>   | CHOOL D<br>ASSROO   |   |
|                 | ADA RAMP & STAIRS, READY<br>AREA FOR NEW CONSTRUCTION       PURPOSES         J       (E) TREES - DO NOT DISTURB,<br>SEE TOPOGRAPHICAL PLAN<br>FOR SIZE / SPECIES       6       (N) CLASSROOM BUILDING<br>FLOOR PLANS.       - SEE         (K)       NOT USED       7       1       (N) CONC. PAVING<br>SIDEWALK - NEW 4" CONC<br>PAVING, 3500 PSI, SLOPE / S<br>INDICATED, CROSS SLOPE<br>TO DRAIN, OVER 4" GRAVIL   | ALSEA S(<br>1c.11: Cl   |   |
|                 | <ul> <li>HANDRAILS - READY FOR NEW<br/>CONCRETE CONCRETE STAIRS &amp;<br/>SIDEWALKS, SEE NEW SITE PLAN.</li> <li>(D) PLAY EQUIPMENT - GIVE<br/>OWNER SALVAGE OPTION.</li> <li>(E) CONCRETE SIDEWALK - DO</li> </ul>  | Const, Inc<br>uction<br>ms Avenue<br>OR 97850   |   |
|                 | <ul> <li>NOT DISTURB</li> <li>P (E) ASPHALT PAVEMENT - DO<br/>NOT DISTURB</li> <li>Q (E) EDGE OF GRAVEL - SHOWN<br/>FOR GRAPHICAL PURPOSES</li> <li>Q (E) PROPERTY LINE - SHOWN</li> <li>(E) PROPERTY LINE - SHOWN</li> </ul>  | CB Constr<br>1202 Adar<br>LaGrande,   | D |
| SSMR A          | <ul> <li>FOR GRAPHICAL PURPOSES</li> <li>(D) PLANTER - REMOVE &amp;</li> <li>(D) PLANTER &amp;</li> <li>(D) PLAN</li></ul> | PLSE<br>PLSE<br>PLSE<br>PLSE<br>PLSE<br>PLSE<br>PLSE<br>PLSE  | D |
|                 | <ul> <li>SHOWN FOR GRAPHICAL SHEETS<br/>PURPOSES</li> <li>(E) ABANDONED DRAIN FIELD -<br/>SHOWN FOR GRAPHICAL<br/>PURPOSES</li> </ul>  | TECTURE   |   |
|                 |  | <b>GHTL</b><br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI<br>ARCHI |   |
|                 |  | <b>STRA</b><br>4521 South Clove<br>Suite 102 - Boise,<br>P: 208.991.0855<br>E: Scott@Straight<br>W: www.Straight  |   |
|                 | Dhope Coordination Nation  | Date: 12-9-2021<br>Project: ALS-1821<br>Version History: V1.0<br>PHASES (PH): 1c.11   | A |
|                 | Applicable to this Sheet only<br>NOTE: THE FOLLOWING NOTES APPLY TO FUTURE PHASED WORK THAT MAY IMPACT OR<br>REQUIRE COORDINATION WITH THE CURRENT PHASE OF WORK.  | ISSUE: 12-22-21<br>50% PROGRESS   |   |
|                 | C1 (E) SEWER - (PREVIOUSLY<br>INSTALLED UNDER PHASE 1a3')<br>COORDINATE AS REQUIRED.<br>COMMON TRENCH NEW FIBER<br>OPTIC LINE IN THIS PHASE.   | AO.<br>ENLARGED SITE &<br>GRADING PLAN  |   |
|                 | 3  |   |   |

|   |                         | 10 9   |             | 0   |
|---|-------------------------|--|-------------|---|
| E | GENI<br>1.              | TRAL NOTES:<br>ATTENTION: Oregon law requires you to follow rules adopted by the Oregon<br>Utility Notification Center. Those rules are set forth in OAR 952-001-0010  | GRA<br>18.  | DING, PAVING & DRAINAGE:<br>Unless otherwise noted, all<br>Standard Specifications for  |
|   |                         | through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).   | 19.         | Strip work limits, removing<br>a stable mass. All trees, b<br>or grading shall be removed   |
|   | 2.                      | A copy of final approved construction drawings and any required permits shall<br>be kept on-site at all times, for review by inspectors upon request.  | 20.         | Immediately following strippin<br>95% of the maximum dry d  |
|   |                         | accordance with the approved construction drawings including such incidentals<br>as may be necessary to meet applicable agency requirements and provide a<br>completed project.  |             | agency before placing emba<br>rock.   |
|   | 4.                      | Any inspection by the City, County or other agencies shall not, in any way, relieve the Contractor from any obligation to perform the work in strict compliance with the contract documents, applicable codes, and agency  | 21.         | Granular baserock shall cont<br>02630.10 (Dense Graded Ba<br>Compact granular baserock  |
| D | 5.                      | requirements.<br>Contractor shall maintain one complete set of approved drawings on the<br>construction site at all times whereon he will record all approved deviations in  | 22,         | T-180 test method (Modifie<br>results from an independent<br>Authorized Field Represental   |
|   |                         | construction from the approved drawings, as well as the station locations and<br>depths of all existing utilities encountered. These field record drawings shall be<br>kept up to date at all times and shall be available for inspection by the<br>Authority Having Jurisdiction, the Architect, the Design Engineer and the Owner's<br>Authorized Field Representative upon request. Failure to conform to this<br>requirement may result in delay in payment and/or final acceptance of the   | 23.         | Unless otherwise shown on<br>between all finish grade elev<br>where grades shown cross s<br>maximum allowable sidewalk  |
|   | 6.                      | project.<br>Upon completion of construction of all new facilities, Contractor shall submit a<br>clean set of field record drawings containing all as—built information to the  | 24.         | pavement grades or be feat<br>to provide a smooth, free o   |
|   |                         | Engineer. All information shown on the Contractor's field record drawings shall<br>be subject to verification. If significant errors or deviations are noted, an<br>as-built survey prepared and stamped by a registered professional Land<br>Surveyor shall be completed at the Contractor's expense.   | 25.         | All existing or constructed r<br>water valves and similar str<br>the pavement, sidewalk, land<br>Verify that all valve boxes o<br>nut.  |
| C | 7.                      | The contractor shall retain and pay for the services of a registered Civil<br>Engineer and/or Land Surveyor licensed in the State of Oregon to establish<br>construction control and perform initial construction surveys to establish the<br>lines and grades of improvements as indicated on the drawings. Staking for<br>buildings, structures, curbs, gravity drainage pipes/structures and other critical<br>improvements shall be completed using equipment accurate to 0.04 feet<br>horizontally and 0.02 feet vertically, or better. Use of GPS equipment for final<br>construction staking of these critical improvements is prohibited. The registered<br>professional surveyor shall provide the design engineer with copies of all grade | CUR<br>26.  | BS & SIDEWALKS:<br>Curb & sidewalk concrete sl<br>damaged by rain (protect u<br>shall not be placed on froze<br>temperature in the shade is<br>if air temperature falls belo<br>minimum of 5 days after pl<br>00756.40 or the project spe |
|   | 8.                      | sheets for construction staking performed for the project.<br>See architectural and plumbing drawings for site dimensioning and continuation<br>of all utilities.  | 27.         | Contraction joints shall be i<br>sidewalk, to control cracking<br>locations other than contrac<br>shall be removed & replaced<br>design engineer.   |
|   | 9.                      | Contractor shall erect and maintain barricades, warning signs, traffic cones (and<br>all other traffic control devices required) per City, County and ODOT<br>requirements in accordance with the current MUTCD (including Oregon<br>amendments). Access to driveways shall be maintained at all times. All traffic<br>control measures shall be approved and in place prior to any construction<br>activity. Prior to any work in the existing public right-of-way, Contractor shall  | 28.         | Where trench excavation rec<br>curbs and/or sidewalks shal<br>otherwise authorized in writi<br>drawings are schematic and<br>cuts.  |
|   | TES <sup>1</sup><br>10. | issuance of a Lane Closure or Work in Right-of-Way Permit.<br>ING AND INSPECTION:<br>The Contractor shall be responsible to ensure that all required or necessary<br>inspections are completed by authorized inspectors prior to proceeding with<br>subsequent work which covers or that is dependent on the work to be  | PIPE<br>29. | D UTILITIES:<br>The Contractor shall have a<br>smooth, undisturbed subgrad<br>bottom of the trench excav<br>materials or tooth grooves<br>the granular bedding materi   |
|   | 11.                     | inspected. Failure to obtain necessary inspection(s) and approval(s) shall result<br>in the Contractor being fully responsible for all problems and/or corrective<br>measures arising from uninspected work.<br>Unless otherwise specified, the "Required Testing and Frequency" table outlines  | 30.         | All pipes shall be bedded wi<br>bedding and backfilled with<br>(crushed rock shall extend<br>all cases). Unless CLSM, C   |
| В |                         | the minimum testing schedule for the project. This testing schedule is not<br>complete, and does not relieve the Contractor of the responsibility of obtaining<br>all necessary inspections or observations for all work performed, regardless of<br>who is responsible for payment. Cost for retesting shall be borne by the<br>Contractor.   | 31.         | Granular trench bedding and<br>(ODOT/APWA) 02630.10 (De<br>otherwise shown on the dra   |
|   | EXIS<br>12.             | TING UTILITIES & FACILITIES:<br>The location and descriptions of existing utilities shown on the drawings are<br>compiled from available records and/or field surveys. The Engineer or utility<br>companies do not guarantee the accuracy or the completeness of such records.<br>Contractor shall field verify locations and sizes of all existing utilities prior to   | 32.         | maximum dry density per A<br>All piped utilities abandoned<br>concrete plugs with a minin<br>abandoned pipe.  |
|   | 13.                     | construction.<br>Contractor shall field verify location and depth of all existing utilities where new<br>facilities cross. All utility crossings marked or shown on the drawings shall be  | 33.         | No trenches in sidewalks, ro<br>overnight. All such trenche<br>and normal traffic and pede  |
|   |                         | potholed using hand tools or other non-invasive methods prior to excavating or<br>boring. Contractor shall be responsible for exposing potential utility conflicts<br>far enough ahead of construction to make necessary grade or alignment<br>modifications without delaying the work. If grade or alignment modification is<br>necessary, Contractor shall notify the Design Engineer and the Owner's  | WAT<br>34.  | ER SYSTEM:<br>Water service lines shall be<br>depths may be required as   |
|   | 14.                     | Authorized Field Representative.<br>All facilities shall be maintained in-place by the Contractor unless otherwise<br>shown or directed. Contractor shall take all precautions necessary to support,<br>maintain, or otherwise protect existing utilities and other facilities at all times<br>during construction. Contractor to leave existing facilities in an equal or<br>better-than-original condition and to the satisfaction of the Architect and the<br>Owner's Authorized Field Representative.  |             | side of the meter shall be<br>water service piping shall be<br>150% of the maximum stati<br>workmanship for all private<br>building envelope, shall be in<br>requirements. All water ser<br>installed by a licensed plum<br>requirements. |
|   | 15.                     | Utilities that are abandoned in place, or interfering portions of utilities, shall be<br>removed by the Contractor to the extent necessary to accomplish the work.<br>The Contractor shall plug the remaining exposed ends of abandoned utilities<br>after appropriate verification procedures have taken place (grout or concrete<br>plugs, if used, shall be installed to fill the full pipe diameter for a distance of<br>two times the pipe diameter back from the pipe end).  | 36.         | Pressure Testing. All water<br>tested for leakage. All tes<br>specifications, City standard<br>be performed with all servic<br>closed, and with all hydrant<br>pressure test, the position  |
| A | 16.                     | Contractor shall remove all existing signs, mailboxes, fences, landscaping, etc., as required to avoid damage during construction and replace them to existing or better condition.  | SAN<br>37.  | IITARY SEWER SYSTEM:<br>Unless otherwise specifically   |
|   | 17.                     | The Contractor shall be responsible for managing construction activities to<br>ensure that public streets and right—of—ways are kept clean of mud, dust or<br>debris. Dust abatement shall be maintained by adequate watering of the site<br>by the Contractor.  |             | or wye per local jurisdiction<br>sewer mainlines.   |

grading, rocking and paving to conform to Oregon Construction (OSSC/ODOT/APWA), 2008 edition.

all organic matter, which cannot be compacted into brush, and debris associated with clearing, stripping and disposed of off-site.

ing and grading operations, compact subgrade to lensity per AASHTO T-180 test method (Modified be inspected and approved by the approved testing inkments, engineered fills or fine grading for base

form to the requirements of OSSC (ODOT/APWA) ise Aggregate).

to 95% of the maximum dry density per AASHTO ed Proctor). Written baserock compaction test testing laboratory must be received by the Owner's tive before placing AC pavement.

the drawings or details, straight grades shall be run vations and/or finish contour lines shown (exception: sidewalks, slopes shall be adjusted to ensure that cross slopes are not exceeded).

transition to existing pavement shall match existing thered past joints with existing pavement as required draining surface.

manholes, cleanouts, monument boxes, gas valves, ructures shall be adjusted to match finish grade of dscaped area or median strip wherein they lie. and risers are clean and centered over the operating

shall be placed only during periods when it will not be unhardened concrete from precipitation). Concrete en baserock. Do not begin concrete placement until a minimum of 35°F and rising, and stop placement ow 35°F. Protect concrete from freezing for a placement per OSSC (ODOT/APWA) 0000440.40.d & pecifications, whichever is more stringent.

installed directly over any pipes that cross under the g. In general, cracks in new curbs or sidewalks (at iction joints) are not acceptable, and cracked panels ed unless otherwise approved by the City and the

quires removal of PCC curbs and/or sidewalks, the Il be sawcut and removed at a tooled joint unless ting by the City. The sawcut lines shown on the not intended to show the exact alignment of such

appropriate equipment on site to produce a firm, de at the trench bottom, true to grade. The vation shall be shall be smooth, free of loose for the entire width of the trench prior to placing

with minimum 6--inches of 3/4"-0 crushed rock compacted 3/4"-0 crushed rock in the pipe zone a minimum of 12-inches over the top of the pipe in CDF or other backfill is shown or noted on the ich backfill shall be used under all improved areas, ks, foundation slabs, buildings, etc.

backfill shall conform to the requirements of OSSC ense Graded Base Aggregate), 3/4"-0. Unless awings, compact granular backfill to 92% of the ASHTO T-180 test method (Modified Proctor).

in place shall have all openings closed with mum length equal to 2 times the diameter of the

oads, or driveways shall be left in an open condition es shall be closed before the end of each workday estrian flows restored.

installed with a minimum 30-inch cover. Deeper shown on the drawings or to avoid obstructions.

ter service pipe 3-inch and smaller on the private Schedule 40 PVC. Unless otherwise specified, private e hydrostatically pressure tested to a minimum of ic pressure at the site. All materials and water lines, including water lines located within any installed in conformance with Uniform Plumbing Code rvice pipe on the private side of the meter shall be nber in accordance with Uniform Plumbing Code

rlines, services and appurtenances shall be pressure sting shall conform to requirements as outlined in the ds and/or testing forms. The hydrostatic test shall ce line corporation stops open and meter stops line valves open. Prior to the start of each of all mainline valves, hydrant line valves and service ne test segment shall verified.

noted on the drawings, manufactured fittings (tee n) shall be used for all lateral connections to new

![](_page_4_Figure_21.jpeg)

| REQUIRED TESTING AND EREQUENCY TABLE  | Party                                   | y Responsible f   | or payment   |
|---|---|---|--|
|   | (                                       | Contractor  | Others<br>(see note 1)   |
| Streets, Fire Lanes, Common Driveways, Parking Lots, Pads   | , Fills                                 | s, etc.   | ······································   |
| Subgrade 1 Test/4000 S.F./Lift (4 min)  | 1                                       | See note 2<br>& note 3  |  |
| Baserock 1 Test/4000 S.F./Lift (4 min)  | $\checkmark$                            | See note 2<br>& note 3  |  |
| Piped Utilities, All  |   | allungung de Sale Sale (1997)   | un de Charden de La Constantina de La Citer de Chard de Charden de Charden de Charden de Charden de Charden de |
| Trench Backfill 1 Test/200 Foot Trench/Lift (4 min)   | $\checkmark$                            | See note 2  |  |
| Trench AC Restoration 1 Test/300 Foot Trench (4 min)  | $\checkmark$                            | See note 2  |  |
| Water   |   |   |  |
| Pressure Test (to be witnessed by Owner's Representative or approving agency)   | $\checkmark$                            | See note 4  |  |
| Sanitary Sewer  |   |   |  |
| Air Test Per City or APWA Requirements,<br>whichever is more stringent  | 1                                       | See note 4  |  |
| Concrete, Block, etc.   |   |   |  |
| Slump, Air & Cylinders for all structures, curbs, sidewalks & PCC pavements. Unless otherwise specified, one set of cylinders per 100 cubic yards (or portion thereof) of concrete poured per day. Slump & air tests required on same load as cylinders.  | 1                                       | See note 2  |  |
| Note 1: "Others" refers to Owner or Approving Agency as applica<br>for scheduling testing. All testing must be completed pri<br>work.   | ble.<br>or to                           | Contractor re<br>performing s   | esponsible<br>subsequent   |
| Note 2: Testing must be performed by an approved independent testing  | g labo                                  | ratory.   |  |
| Note 3: In addition to in-place density testing, the subgrade and<br>rolled with a loaded 10 yard dump truck provided by the<br>proofroll shall take place immediately prior to (within 2<br>shall be witnessed by the Owner's Authorized Field Rep<br>agency. Location and pattern of proofroll to be as direc<br>Authorized Field Representative or approving agency. | d bas<br>Con<br>4 hou<br>resen<br>ted b | e rock shall<br>stractor. Base<br>urs of) paving<br>tative or appl<br>by said Owner | be proof—<br>rock<br>, and<br>roving<br>'s   |
| Note 4: To be witnessed by the Owner's Representative or appro-<br>shall perform pretests prior to scheduling witnessed wa  | oving<br>terline                        | agency. The   | Contractor<br>sewer  |

![](_page_5_Figure_0.jpeg)

| s) AREA (net) S.F. / Occ. OCCUPANTS FIRE SPRINKLERS None Required per OSSC or<br>f 1,966 sf 20 Net 98.3 FIRE ALARM SYSTEM New fire alarm system at new constru-<br>f n/a 300 Gross 1.59 EXITS (2) total   | ction,<br>ction,<br>ction,<br>(1.5% green    |
|---|--|
| f1,966 sf20 Net98.3FIRE ALARM SYSTEMNew fire alarm system at new constru-<br>interface with existing school fire alarfn/a300 Gross1.59EXITS(2) total  | ction,<br>n system (1.5% green               |
| f n/a 300 Gross 1.59 EXITS (2) total  | nsystem                                      |
|   | ASHRAE 90.                                   |
| TRAVEL DISTANCE < 45 ft. to Exit or Horizontal Exit (Exist distance)  | ng<br>ORS 447.242                            |
| RES: OSSC 2902.1DOORSMin. 36" Leafs with Swing as Show.<br>(Out swing Required Where Occupant<br>Exceeds 50)1:501:501:501:50  | Load to the maximum drinking fou unless such |
| ES1:50DOOR HARDWAREADA Compliant. (Panic Hardware ReqFOUNTAINS1 Per FloorWhere Occupant Load Exceeds 50)  | uired<br>1 - Newly re<br>requirement         |
| RED PROVIDED DELTA ACCESSIBILITY Accessible Route provided to all space<br>new & existing Building  | s of<br>2 - The new<br>the existing          |
| 2U 0 DRAWING KEYED NOTES  |  |
| 2U       0         1       (N) FIRE EXTINGUISHER CABINET<br>(FEC) - SEMI-RECESSED, NEW       9       (N) ATTIC ACCESS - AT<br>CEILING, 22" x 30"         2U       0       1       (D) FIRE EXTINGUISHER CABINET<br>(FEC) - SEMI-RECESSED, NEW       9       (N) ATTIC ACCESS - AT<br>CEILING, 22" x 30"   | 1.12   |
| 011   |  |
| 2 +1<br><u>ADA CLEARANCES -</u> RADIUS &<br><u>ADA CLEARANCES -</u><br><u>ADA CLEARANCES -</u><br><u>ADA CLEARANCES -</u><br><u>ADA CLEARANCES -</u><br><u>ADA CLEARANCES -<br/><u>ADA CLEARANCES -<br/><u>ADA CLEARANCES -<br/><u>ADA CLEARANCES -<br/><u>ADA CLEARANCES</u></u></u></u></u> | 1AX<br>R, ONE 65<br>TH TOP 73.4              |
| 1 +1<br>ADA TOILET SIGNAGE - UNISEX, AND BOTTOM OF EAC<br>WITH UNIVERSAL SYMBOL STAIR, 12" EXTENSION<br>TOP AND BOTTOM OF   | AT CLA                                       |
| 6WALL FINISHES - NON- ABSORBENT,<br>SMOOTH & HARD SURFACES, SEE<br>ROOM FINISH SCHEDULETOP AND BOTTOM OF<br>ROM FINISH SCHEDULE   |  |
| $(7) \frac{\text{EXIT SIGNAGE}}{\text{LIGHTING}} - \text{WITH EMERGENCY}$   |  |
| 8 DRINKING FOUNTAIN - ADA<br>COMPLIANT WATER BOTTLE FILLER  |  |

| <section-header></section-header>  |  | COMcheck Softw   | are Vers  | ion COI   | Mcheo                           | :kWeb  |   |                                    | Section  | Footing / Foundation   |
|--|--|--|---|---|---------------------------------|--|---|------------------------------------|--|--|
|  | _ ſ√   | ነ Envelope Co  | ompliar   | ice Co  | ertifi                          | cate   |   |                                    | #<br>& Req.ID  | Inspection   |
|  | Project I  | nformation   |   |   |                                 |  |   |                                    | [FO1] <sup>2</sup>   | insulation type and R-value<br>consistent with insulation<br>specifications reported in plans<br>and COMcheck reports.   |
|  | Energy Code<br>Project Title:<br>Location:<br>Climate Zon  | e: 90.1 (20<br>ALSEA 6<br>Corvallis<br>e: 4c   | 019) Standard<br>5-8 CLASSROOM<br>s, Oregon   | BLDG  |                                 |  |   |                                    | 4.2.4<br>[FO3] <sup>2</sup>  | Installed slab-on-grade insulation<br>type and R-value consistent with<br>insulation specifications reported<br>in plans and COMcheck reports.   |
| <text></text>  | Project Type<br>Vertical Glaz<br>Performance   | e Sim. Specs: EnergyF  | nstruction<br>Plus 8.1.0.009 (E   | PW: USA_OI  | R_Salem-I                       | McNary.Fie   | ld.726940_1                                 | ſMY3.epw)                          | 5.8.1.2<br>[FO4] <sup>2</sup>  | Slab edge insulation installed per manufacturer's instructions.  |
| <text></text>  | Constructior<br>301 S 3RD<br>ALSEA, Ore  | n Site: Owne<br>STREET ALS<br>egon 97324   | er/Agent:<br>EA SCHOOL DISTF  | RICT  | Desi<br>SCO<br>STF<br>452<br>BO | gner/Contra<br>OTT MARSH/<br>AIGHTLINE<br>1 S CLOVEF | ctor:<br>ALL<br>ARCHITECTUI<br>RDALE RD, ST | RE<br>E 102                        | 5.5.3.5<br>[FO5] <sup>2</sup>  | Slab edge insulation<br>depth/length.  |
| bit  |  |  |   |   | 208<br>5C0                      | 32, Idano 8<br>3-991-0855<br>DTT@STRAIG              | GHTLINE.BIZ                                 |                                    | 5.8.1.7<br>[FO6] <sup>1</sup>  | Exterior insulation protected<br>against damage, sunlight,<br>moisture, wind, landscaping and<br>equipment maintenance<br>activities.  |
| <section-header></section-header>  | Building A   | Area<br>OOM SPACE (School/University) : No   | nresidential  | Floor A   | 632                             |  |   |                                    | 5.8.1.7.3<br>[FO7] <sup>1</sup>  | Insulation in contact with the ground has $<=0.3\%$ water absorption rate per ASTM C272.   |
| Amminy     Orgs Am     Draw Am     Draw Am     Property     Property     Draw Am   | Envelope   | Assemblies   |   |   |                                 |  |   |                                    | 6.4.4.1.5  | Bottom surface of floor structures   |
| Number         Additional         Additional<  |  | Assembly   |   | Gross Area<br>or  | Cavity<br>R-Value               | Cont.<br>R-Value                                     | Proposed<br>U-Factor                        | Budget U-<br>Factor <sub>(a)</sub> | [[011]   | insulated to $>=$ R-3.5.   |
| Autom     Autom     Autom     Autom     Autom     Autom       Autom     Autom     Autom     Autom     Autom <td< td=""><td>Roof: Attic F</td><td>Roof, Wood Joists, [Bldg. Use 1 - CLAS</td><td>SROOM</td><td>2632</td><td>0.0</td><td>60.0</td><td>0.016</td><td>0.021</td><td>Additiona</td><td>al Comments/Assumptions:</td></td<>  | Roof: Attic F  | Roof, Wood Joists, [Bldg. Use 1 - CLAS   | SROOM   | 2632  | 0.0                             | 60.0   | 0.016                                       | 0.021                              | Additiona  | al Comments/Assumptions:   |
| Control         Control <t< td=""><td>SPACE]<br/>Floor: Unhe</td><td>ated Slab-On-Grade, Vertical 2 ft., [Bl</td><td>dg. Use 1 -</td><td>240</td><td></td><td>18.6</td><td>0.513</td><td>0.520</td><td>Section<br/>#</td><td>Framing / Rough-In Inspection</td></t<>   | SPACE]<br>Floor: Unhe  | ated Slab-On-Grade, Vertical 2 ft., [Bl  | dg. Use 1 -   | 240   |                                 | 18.6   | 0.513                                       | 0.520                              | Section<br>#   | Framing / Rough-In Inspection  |
| The second se                        | NORTH  | a SFACEJ (U)   |   |   |                                 |  | <b>a</b> - 1                                | 0.00                               | & Req.ID<br>5.4.2  | Factory-built and site-assembled   |
| The Back most mode, Targe, Ball, Sale, T.J. & P.G. (1990).         The Data matrix mode in the second s                                       | Ext. Wall: W<br>SPACE]<br>Window: Vir  | νυα-παπεα, τοιπ. ο.ς., [Bidg. Use 1 -<br>nyl Frame: Fixed, Perf. Type: Enerav c  | ode default,  | 870<br>60   | 27.6                            | 0.0  | 0.055                                       | 0.064<br>0.360                     | [FR1] <sup>3</sup>   | tenestration and doors are<br>labeled or certified as meeting air<br>leakage requirements.   |
| Signam Parallel (1992)         Signam Parallel (1992)<  | Triple Pane<br>[Bldg. Use 1<br>Window: M   | with Low-E, Tinted , SHGC 0.34, PF 0.<br>- CLASSROOM SPACE]<br>tal Frame: Fixed Perf Type: Force   | 99, VT 0.21,  |   |                                 |  | 4.055                                       | 0.000                              | 5.4.3.3.3<br>[ED 413   | Vestibules are installed where   |
| bler die   | Single Pane<br>- CLASSROC  | , Tinted , SHGC 0.70, PF 0.99, VT 0.58<br>M SPACE]   | 3, [Bldg. Use 1   | 26  |                                 |  | 1.250                                       | 0.360                              | [FR4] <sup>3</sup>   | conditioned space from the<br>exterior, and meet exterior  |
| Let, with fixed frame. Let is al. [links, bit 1: CLASHOOM       340       276       83       0.055       0.065         Let, with fixed frame. Let is al. [links, bit 1: CLASHOOM       P17       276       8.3       0.055       0.064         Let, with fixed frame. Let is al. [links, bit 1: CLASHOOM       P17       276       8.3       0.055       0.064         Let, with fixed frame. Let is al. [links, bit 1: CLASHOOM       P17       276       8.3       0.055       0.064         Links, bit 1: CLASHOOM Flattic       Report does. 1/272/21       The fixed frame. 1/272/21       1.3 <td>Door: Glass<br/>Perf. Type: P<br/>0.70, PF 0.9<br/><u>EAST</u></td> <td>(over 50% glazing): Metal Frame, Ent<br/>Energy code default, Single Pane, Tin<br/>9, VT 0.58, [Bldg. Use 1 - CLASSROOM</td> <td>rance Door,<br/>ted , SHGC<br/>4 SPACE]</td> <td>42</td> <td></td> <td></td> <td>1.250</td> <td>0.360</td> <td></td> <td>envelope requirements. Doors<br/>have self-closing devices, and are<br/>&gt;=7 ft apart (&gt;= 16 ft apart for<br/>adjoinging floor area &gt;= 40000<br/>sq.ft.). Vestibule floor area <math>&lt;-7</math></td>  | Door: Glass<br>Perf. Type: P<br>0.70, PF 0.9<br><u>EAST</u>  | (over 50% glazing): Metal Frame, Ent<br>Energy code default, Single Pane, Tin<br>9, VT 0.58, [Bldg. Use 1 - CLASSROOM  | rance Door,<br>ted , SHGC<br>4 SPACE]   | 42  |                                 |  | 1.250                                       | 0.360                              |  | envelope requirements. Doors<br>have self-closing devices, and are<br>>=7 ft apart (>= 16 ft apart for<br>adjoinging floor area >= 40000<br>sq.ft.). Vestibule floor area $<-7$  |
| SUMULINALIANA CARE         So 27.6         6.5         5.05         5.3.4.5         Vertical freedmater LBR value (Diray Society (LBR value))           Project Tills:         Alson 400 (Diray Society (LBR value))         100         -         6.62         3.020           Ministry (Society (LBR value))         Project Tills:         Alson 400 (Diray Society (LBR value))         Society (Diray So   | Ext. Wall: W<br>SPACE]   | ood-Framed, 16in. o.c., [Bldg. Use 1 -   | CLASSROOM   | 340   | 27.6                            | 0.0  | 0.055                                       | 0.064                              |  | 50 sq.ft. or 2 percent of the adjoining conditioned floor area.  |
| Windowskie     Image   | <u>SOUTH</u><br>Ext. Wall: W<br>SPACE1   | ood-Framed, 16in. o.c., [Bldg. Use 1 -   | CLASSROOM   | 870   | 27.6                            | 0.0  | 0.055                                       | 0.064                              | 5.5.4.3a<br>[FR8] <sup>1</sup>   | Vertical fenestration U-Factor.  |
| Process, Time:       Alson of CubSBOOM BLDG       Page 1 of 2       Page 1 of 2         Assembly       Organ Also CubW, Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1       Page 1 of 2       Page 1 of 2         Page 1       Page 1       Page 1 of 2       Page 1 of 2         Page 1       Page 1       Page 1 of 2       Page 1 of 2         Page 1       Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1 of 2       Page 1 of 2       Page 1 of 2         Page 1       Page 1       Page 1 of 2       Page 1 of 2         Page 1       Page 1       Page 1 of 2       Page 1 of 2         Page 1       Page 1       Page 1       Page 1         Page 1       Page 1       Page 1       Page 1         Page 1       Page 1       Page 1       Page 1   | Window: Vir<br>Triple Pane<br>[Bldg. Use 1   | nyl Frame: Fixed, Perf. Type: Energy c<br>with Low-E, Tinted , SHGC 0.34, PF 0.<br>CLASSROOM SPACE]  | ode default,<br>66, VT 0.21,  | 180   |                                 |  | 0.450                                       | 0.360                              | 5.5.4.3b<br>[FR9] <sup>1</sup>   | Skylight fenestration U-Factor.  |
| Assembly       Case Ar Arala       Carefar Arada   | Project Title:<br>Data filenam   | ALSEA 6-8 CLASSROOM BLDG   |   |   |                                 |  | Report d<br>Pag                             | ate: 12/22/21<br>ge 1 of 8         | 5.5.4.4.1<br>[FR10] <sup>1</sup>   | Vertical fenestration SHGC value.  |
| <ul> <li>Market and market, like a.e., flight best 2.4.55800</li> <li>Market and the advected developed and advected developed advected advected deve</li></ul>     |  | Assembly   |   | Gross Area<br>or<br>Perimeter                                 | Cavity<br>R-Value               | Cont.<br>R-Value                                     | Proposed<br>U-Factor                        | Budget U-<br>Factor <sub>(a)</sub> | 5.5.4.4.2<br>[FR11] <sup>1</sup>   | Skylight SHGC value.   |
| <ul> <li>Bubb Chattabase and additional base of a phase in the set of the</li></ul> | WEST<br>Ext. Wall: V<br>SPACE]   | Vood-Framed, 16in. o.c., [Bldg. Use 1  | - CLASSROOM   | 340   | 27.6                            | 0.0  | 0.055                                       | 0.064                              | 5.8.2.1,<br>5.8.2.3,   | Fenestration products rated (U-<br>factor, SHGC, and VT) in  |
| Environment       5.3.2.2       Freestances of a second and constructions and other constructions and constructin and constructions and constructions and c  | (b) Slab-(<br>Project I  | On-Grade proposed and budget U-fac   | tors shown in tabl  | e are F-factor  | s.                              | requiremen   | 115.  |                                    | 5.8.2.4,<br>5.8.2.5<br>[FR12] <sup>2</sup>   | accordance with NFRC or energy code defaults are used.   |
| Complexed standards       Complexed standards<   | Envelope I   | PASSES: Design 0.1% better than  | code  |   |                                 |  |   |                                    | 5.8.2.2<br>[FR13] <sup>1</sup>   | Fenestration and door products<br>are labeled, or a signed and<br>dated certificate listing the U-   |
| Additional converting based on the subscription feature in the subscription feature                                      | <i>Compliance</i><br>specificatio  | <i>Statement:</i> The proposed envelope ns, and other calculations submitted v   | design represente<br>with this per <b>m</b> it ar   | ed in this docu<br>oplication. The                            | iment is co<br>e proposed       | nsistent wit<br>envelope s                           | h the building<br>ystems have               | g plans,<br>been                   |  | tactor, SHGC, VT, and air leakage rate has been provided by the manufacturer.  |
| <text><text><section-header></section-header></text></text>  | designed to<br>mandatory<br>SCOTT M<br>Name - Title  | meet the 90.1 (2019) Standard requirequirements listed in the Inspection ARSHALL, AIA-NCARB  | irements in COMC<br>Checklist   | Mas   | COMcheck                        | Web and to   | comply with a<br>12-22-21<br>Date           | any applicable                     | 5.5.3.6<br>[FR14] <sup>2</sup>   | U-factor of opaque doors<br>associated with the building<br>thermal envelope meets<br>requirements.  |
| <ul> <li>Concrete Software Version COMCheckWeb</li> <li>Software Version COMCheckWeb</li> <li>Software Version Comcents</li> <li>Software Version Comcents</li> <li>Software Version Version</li> <li>Software Versi</li></ul>   | 2,632 SF N   | NEW (3) CLASSROOM BUILDING W   | /ITH SUPPORT S  | PACES.  |                                 |  |   |                                    | 5.4.3.1<br>[FR15] <sup>1</sup>   | Continuous air barrier is<br>wrapped, sealed, caulked,<br>gasketed, and/or taped in an<br>approved manner, except in   |
| For the control of the solution of th                | ഹ  | COMcheck Soft  | ware Vers   | sion CO   | Mche                            | ckWe   | b   |                                    | Addition   | semineated spaces in climate<br>zones 1-6.<br>al Comments/Assumptions:   |
| Requirements: 0.0% were addressed directly in the COM/heck software         Text in the "Comments/Assumptions" column is provided by the user in the COM/heck Requirements screen. For each requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.         Section       Plan Review       Complies?         Acc., Plans and/or specifications provide all       Complies         S.4.2.3       Plan and/or specifications provide all       Complies         Does Not       Does Not         S.5.4.2.3       Insulation instanced accordingly.         S.6.4.3.1.1       Insulation requirements care determined for the building provide and ocument where compliant if insulation requirements is installed accordingly.         S.5.4.2.3       In buildings > 2.500 ft2, any enclosed column, Applicable         Corrifor, boby, any measure seature, corrifor, storage (including norm, manufacturing corrifor, storage (including norm, manufacturing corrifor, tarsange (including norm, manufacturing corrifor) tarsange tation baggage and seating as e   |  | Energy Code: 90 1 (  | 2019) Stand   | lard  | -                               |  |   |                                    | Section  |  |
| requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.       For each table is provided.       For each table is provided. <b>x</b> exceptions to document will be met and how that is documented, or that an exception is provided. <b>Solution Solution Solution</b>  | Poquiror   | nents: 0.0% were addressed d   | lirectly in the (   | COMcheck :  | software                        | A.L. • -   |   |                                    | #<br>& Req.ID  | Insulation Inspection  |
| Section       Plan Review       Complies?       Comments/Assumptions         4.2.2.       Plans and/or specifications provide all<br>(IN17) <sup>3</sup> Comments/Assumptions         5.4.3.1.1.<br>information with which compliance<br>can be determined for the building<br>envelope and document where<br>exceptions to the standard are<br>claimed.       Complies         5.5.4.2.3       In buildings > 2.500 ft2, any enclosed<br>spaces directly under a roof with<br>ceiling heights > 15 ft, and used as an<br>office, lobby, atrium, concourse,<br>courtoom, automotive service, fire<br>area, convention exhibitevent space,<br>courtoom, automotive service, fire<br>requirement apply: The daylight zone<br>under skylight traes to a space and seating<br>areas, or workshop, the following<br>areas, or workshop, the following<br>areas and whylight effective aperture<br>set and a sylight traes to -3.9 percent, what<br>skylight traes to -3.9 percent, the skylight area to<br>daylight zone is >= 3 percent with a<br>skylight trae to -0.4 percent.       Additional Comments/Assumptions:         Additional Comments/Assumptions:       Additional Comments/Assumptions:  | -  | "  |   |   | n the CO                        | Mcheck Re  | quirements                                  | screen. For each                   | J.0.1./.2  | with insulation  |
| <ul> <li>4.2.2. Plans and/or specifications provide all □ Comples</li> <li>5.4.3.1., information with which compliance</li> <li>[PR1]<sup>1</sup></li> <li>[PR1]<sup>2</sup></li> <li>[PR1]<sup>2</sup></li> <li>[S.5,4.2.3]</li> <li>In buildings &gt; 2,500 ft2, any enclosed</li> <li>[DAT Applicable</li> <li>[DAT Applicable</li></ul>   | Text in th<br>requirem<br>is being c   | ne "Comments/Assumptions" colu<br>ent, the user certifies that a code<br>claimed. Where compliance is iter   | mn is provided l<br>requirement w<br>nized in a separ   | by the user i<br>ill be met an<br>ate table, a                | d how that<br>reference         | to that ta   | nented, or th<br>ble is provid              | hat an exception<br>led.           | [IN16] <sup>2</sup>  |  |
| claimed.       Complex         5.5.4.2.3       In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, gymnasium seating area, gymnasium seating area, gymnasium seating corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation bagagea and seating areas, or workshop, the following requirements apply: The daylight zone under skylight area to daylight zone is >= 3 percent. The skylight shave a measured haze value > 90 percent.       Additional Comments/Assumptions:   | Text in th<br>requirem<br>is being c<br>Section<br>#<br>& Reg.ID   | ne "Comments/Assumptions" colu<br>ent, the user certifies that a code<br>claimed. Where compliance is iter<br><b>Plan Review</b>   | mn is provided l<br>requirement wi<br>nized in a separ  | by the user i<br>ill be met an<br>ate table, a                | d how that<br>reference         | to that ta   | nented, or the ble is provid                | nat an exception<br>led.           | [IN16] <sup>2</sup><br>5.8.1.8<br>[IN17] <sup>3</sup>  | Insulation intended to meet the roof insulation requirements cannot be installed on top of a   |
| <pre>trrv:r spaces directly under a root with<br/>celling heights &gt; 15 ft. and used as a<br/>office, lobby, atrium, concourse,<br/>corridor, storage (including<br/>nonrefrigerated warehouse),<br/>gymnasium, fitness/exercise area,<br/>playing area, gymnasium seating<br/>area, convention exhibit/event space,<br/>courtroom, automotive service, fire<br/>station engine room, manufacturing<br/>corridor/transition and bay areas,<br/>retail, library reading and stack areas,<br/>distribution/sorting area,<br/>transportation baggage and seating<br/>areas, or workshop, the following<br/>requirements apply: The daylight zone<br/>under skylight sis &gt;= half the floor<br/>area and (a) the skylight area to<br/>daylight zone is &gt;= 3 percent. With a<br/>skylight VT &gt;= 0.40 or (b) the<br/>minimum skylight effective aperture<br/>&gt;= 1 percent. The skylights have a<br/>measured haze value &gt; 90 percent.</pre>  | Text in the<br>requirem<br>is being of<br>Section<br>#<br>& Req.ID<br>4.2.2,<br>5.4.3.1.1,<br>5.7<br>[PR1] <sup>1</sup>  | Plan Review Plans and/or specifications provide a information with which compliance envelope and document where exceptions to the standard are   | mn is provided l<br>e requirement wi<br>nized in a separ<br>Complies<br>Does Not<br>Not Observa<br>Not Applical   | by the user i<br>ill be met an<br>ate table, a<br>ble<br>ble  | d how tha<br>reference          | comments/  | nented, or the ble is provid                | nat an exception<br>led.           | [IN16] <sup>2</sup><br>5.8.1.8<br>[IN17] <sup>3</sup><br>Addition  | Insulation intended to meet the<br>roof insulation requirements<br>cannot be installed on top of a<br>suspended ceiling. Mark this<br>requirement compliant if<br>insulation is installed accordingly.   |
| gymmasum, nuess/exercise area,         playing area, gymnasium seating         area, convention exhibit/event space,         courtroom, automotive service, fire         station engine room, manufacturing         corridor/transition and bay areas,         retail, library reading and stack areas,         distribution/sorting area,         transportation baggage and seating         areas, or workshop, the following         requirements apply: The daylight zone         under skylight is >= half the floor         area and (a) the skylight area to         daylight zone is >= 3 percent with a         skylight offective aperture         >= 1 percent. The skylights have a         measured haze value > 90 percent.  | Text in th         requirem         is being c         Section         #         & Req.ID         4.2.2,         5.4.3.1.1,         5.7         [PR1] <sup>1</sup>                             | Plan Review Plans and/or specifications provide a information with which compliance envelope and document where exceptions to the standard are claimed. In buildings > 2,500 ft2, any enclose  | mn is provided l<br>e requirement winized in a separ<br>Complies<br>III Complies<br>Does Not<br>Not Observa<br>Not Applicat   | by the user i<br>ill be met an<br>ate table, a<br>able<br>ble | d how that<br>reference         | comments/  | nented, or the ble is provid                | nat an exception<br>led.           | [IN16] <sup>2</sup><br>5.8.1.8<br>[IN17] <sup>3</sup><br>Addition  | Insulation intended to meet the<br>roof insulation requirements<br>cannot be installed on top of a<br>suspended ceiling. Mark this<br>requirement compliant if<br>insulation is installed accordingly.<br>al Comments/Assumptions:   |
| corridor/transition and bay areas,         retail, library reading and stack areas,         distribution/sorting area,         transportation baggage and seating         areas, or workshop, the following         requirements apply: The daylight zone         under skylights is >= half the floor         area and (a) the skylight area to         daylight zone is >= 3 percent with a         skylight VT >= 0.40 or (b) the         minimum skylight effective aperture         >= 1 percent. The skylights have a         measured haze value > 90 percent.  | Text in th<br>requirem<br>is being of<br><b>Section</b><br>#<br>& Req.ID<br>4.2.2,<br>5.4.3.1.1,<br>5.7<br>[PR1] <sup>1</sup><br>5.5.4.2.3<br>[PR7] <sup>2</sup>                               | Plan Review<br>Plans and/or specifications provide a<br>information with which compliance<br>can be determined for the building<br>envelope and document where<br>exceptions to the standard are<br>claimed.<br>In buildings > 2,500 ft2, any enclose<br>spaces directly under a roof with<br>ceiling heights > 15 ft. and used as<br>office, lobby, atrium, concourse,<br>corridor, storage (including<br>nonrefrigerated warehouse),<br>gympasium fitners/aversiae and   | mn is provided l<br>requirement winized in a separ<br>Complies<br>Does Not<br>Not Observa<br>Not Applicat<br>Complies<br>Does Not<br>Not Applicat<br>Not Observa<br>Not Observa   | able<br>able  | d how that<br>reference         | comments/  | nented, or the ble is provid                | nat an exception<br>led.           | [IN16] <sup>2</sup><br>5.8.1.8<br>[IN17] <sup>3</sup><br>Addition<br>Section<br>#<br>& Req.ID<br>5.4.3.2<br>[FI1] <sup>1</sup> | Insulation intended to meet the<br>roof insulation requirements<br>cannot be installed on top of a<br>suspended ceiling. Mark this<br>requirement compliant if<br>insulation is installed accordingly.<br>al Comments/Assumptions:<br>Final Inspection<br>Weatherseals installed on all load<br>dock cargo doors in Climate Zone<br>8. |
| area and (a) the skylight area to         daylight zone is >= 3 percent with a         skylight VT >= 0.40 or (b) the         minimum skylight effective aperture         >= 1 percent. The skylights have a         measured haze value > 90 percent.   | Text in th<br>requirem<br>is being of<br><b>Section</b><br><b>#</b><br><b>&amp; Req.ID</b><br>4.2.2,<br>5.4.3.1.1,<br>5.7<br>[PR1] <sup>1</sup><br>5.5.4.2.3<br>[PR7] <sup>2</sup>             | Plan Review<br>Plans and/or specifications provide a<br>information with which compliance<br>can be determined for the building<br>envelope and document where<br>exceptions to the standard are<br>claimed.<br>In buildings > 2,500 ft2, any enclose<br>spaces directly under a roof with<br>ceiling heights > 15 ft. and used as<br>office, lobby, atrium, concourse,<br>corridor, storage (including<br>nonrefrigerated warehouse),<br>gymnasium, fitness/exercise area,<br>playing area, gymnasium seating<br>area, convention exhibit/event spac<br>courtroom, automotive service, fire<br>station engine room, manufacturing<br>corridor/transition and here the   | mn is provided l<br>requirement winized in a separ<br>Complies<br>Does Not<br>Not Observa<br>Not Applicat<br>Complies<br>Not Applicat<br>Not Observa<br>Not Observa<br>Not Observa  | able  | d how the<br>reference          | comments/  | nented, or the ble is provid                | nat an exception<br>led.           | [IN16] <sup>2</sup><br>5.8.1.8<br>[IN17] <sup>3</sup><br>Addition<br>5.4.3.2<br>[FI1] <sup>1</sup><br>Addition                 | Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly. al Comments/Assumptions: Final Inspection Weatherseals installed on all load dock cargo doors in Climate Zone 8. al Comments/Assumptions:      |
| Additional Comments/Assumptions:   | Text in th         requirem         is being of         Section         & Req.ID         4.2.2,         5.4.3.1.1,         5.7         [PR1] <sup>1</sup> 5.5.4.2.3         [PR7] <sup>2</sup> | Plan Review<br>Plans and/or specifications provide a<br>information with which compliance<br>can be determined for the building<br>envelope and document where<br>exceptions to the standard are<br>claimed.<br>In buildings > 2,500 ft2, any enclose<br>spaces directly under a roof with<br>ceiling heights > 15 ft. and used as<br>office, lobby, atrium, concourse,<br>corridor, storage (including<br>nonrefrigerated warehouse),<br>gymnasium, fitness/exercise area,<br>playing area, gymnasium seating<br>area, convention exhibit/event space<br>courtroom, automotive service, fire<br>station engine room, manufacturing<br>corridor/transition and bay areas,<br>retail, library reading and stack area<br>distribution/sorting area,<br>transportation baggage and seating<br>areas, or workshop, the following<br>requirements apply: The daylight zo<br>under skylights is >= half the floor  | mn is provided l<br>e requirement wi<br>nized in a separ<br>Complies<br>Does Not<br>Not Observa<br>Not Applical<br>Complies<br>Does Not<br>Not Applical<br>Not Observa<br>Not Applical<br>ed<br>Not Observa                     | able<br>able  | d how that<br>reference         | comments/  | Assumption                                  | nat an exception<br>led.           | [IN16] <sup>2</sup><br>5.8.1.8<br>[IN17] <sup>3</sup><br>Addition<br>5.4.3.2<br>[FI1] <sup>1</sup><br>Addition                 | Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly. al Comments/Assumptions: Final Inspection Weatherseals installed on all load dock cargo doors in Climate Zones 8. bal Comments/Assumptions:    |
|  | Text in threquirem is being of         Section         & Req.ID         4.2.2,         5.4.3.1.1,         5.7         [PR1] <sup>1</sup> 5.5.4.2.3         [PR7] <sup>2</sup>                  | Plan Review<br>Plans and/or specifications provide a<br>information with which compliance<br>can be determined for the building<br>envelope and document where<br>exceptions to the standard are<br>claimed.<br>In buildings > 2,500 ft2, any enclose<br>spaces directly under a roof with<br>ceiling heights > 15 ft. and used as<br>office, lobby, atrium, concourse,<br>corridor, storage (including<br>nonrefrigerated warehouse),<br>gymnasium, fitness/exercise area,<br>playing area, gymnasium seating<br>area, convention exhibit/event space<br>courtroom, automotive service, fire<br>station engine room, manufacturing<br>corridor/transition and bay areas,<br>retail, library reading and stack area<br>distribution/sorting area,<br>transportation baggage and seating<br>areas, or workshop, the following<br>requirements apply: The daylight zo<br>under skylights is >= half the floor<br>area and (a) the skylight area to<br>daylight zone is >= 3 percent with a<br>skylight VT >= 0.40 or (b) the<br>minimum skylight effective aperture<br>>= 1 percent. The skylights have a<br>measured haze value > 90 percent. | mn is provided l<br>e requirement wi<br>nized in a separ<br>Complies<br>Does Not<br>Not Observa<br>Not Applical<br>ed Complies<br>Does Not<br>Not Observa<br>Not Observa<br>Not Observa<br>Not Applical<br>e,<br>e,<br>e,<br>e, | able  | d how that<br>reference         | comments/  | Assumption                                  | nat an exception<br>led.           | [IN16] <sup>2</sup><br>5.8.1.8<br>[IN17] <sup>3</sup><br>Addition<br>5.4.3.2<br>[F11] <sup>1</sup><br>Addition                 | Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.  |

|             | Plans Verified<br>Value | Field Verified<br>Value | Complies?  | Comments/Assumptions                                 | Section<br>#<br>& Reg.ID                  | Insulation Inspect  |
|-------------|-------------------------|-------------------------|--|--|---|---|
|             | R                       | R                       | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | See the Envelope Assemblies<br>table for values.     | 4.2.4<br>[IN2] <sup>1</sup>               | Installed roof insulation ty<br>R-value consistent with in<br>specifications reported in<br>and COMcheck reports. Fo<br>ceiling systems, verification |
| n<br>n<br>d | R<br>Unheated           | R<br>Unheated           | □Complies<br>□Does Not                                       | <i>See the Envelope Assemblies table for values.</i> |   | need to occur during Fran<br>Inspection.  |
| u           |                         | Heated                  | Not Observable Not Applicable                                |  | 5.8.1.2,<br>5.8.1.3<br>[IN3] <sup>1</sup> | Roof insulation installed p<br>manufacturer's instruction<br>Blown or poured loose-fill<br>insulation is installed only                               |
| ÷r          |                         |                         | Does Not<br>Not Observable                                   |  | 4.2.4<br>[IN6] <sup>1</sup>               | the ceiling slope is <= 3:<br>Installed above-grade wal<br>insulation type and R-valu<br>consistent with insulation                                   |
|             | ft                      | ft                      | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | See the Envelope Assemblies<br>table for values.     |   | specifications reported in and COMcheck reports.  |
| ł           |                         |                         | Complies<br>Does Not<br>Not Observable                       |  | 5.8.1.2<br>[IN7] <sup>1</sup>             | Above-grade wall insulation installed per manufacture instructions.   |
|             |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     |  | 4.2.4<br>[IN8] <sup>2</sup>               | Installed floor insulation to<br>R-value consistent with in<br>specifications reported in<br>and COMcheck reports.                                    |
| es          | R                       | R                       | Complies Does Not Not Observable Not Applicable              | See the Envelope Assemblies<br>table for values.     | 5.8.1.1<br>[IN10] <sup>2</sup>            | Building envelope insulati<br>labeled with R-value or in<br>certificate has been provi<br>listing R-value and other r                                 |
| :           |                         |                         |  |  | 5.8.1.9                                   | data.<br>Building envelope insulati<br>extends over the full area   |
| on          | Plans Verified<br>Value | Field Verified<br>Value | Complies?  | Comments/Assumptions                                 | [[]]10]-                                  | component at the propose<br>R or U value.   |
| d<br>air    |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     |  | 5.8.1.4<br>[IN11] <sup>2</sup>            | Eaves are baffled to defle<br>above the insulation.   |
|             |                         |                         | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  | 5.8.1.5<br>[IN12] <sup>2</sup>            | Insulation is installed in<br>substantial contact with the<br>inside surface separating<br>conditioned space from                                     |

|   |                           |                           | Complies                               | I contract of the second se |           |                              | 1  |
|---|---------------------------|---------------------------|--|---|-----------|------------------------------|--|
| r |                           |                           | Does Not                               |   | 5.<br>[1] | .8.1.4<br>N11] <sup>2</sup>  | Eaves<br>above                                 |
| _ |                           |                           |  | ,<br>,<br>,<br>,<br>,   | _         |                              |  |
| e |                           |                           | Does Not<br>Not Observable             |   | 5.<br>[II | .8.1.5<br>N12] <sup>2</sup>  | Insulat<br>substa<br>inside<br>condit<br>uncon |
|   |                           |                           |  |   | 5.<br>[1] | .8.1.6<br>N13] <sup>2</sup>  | Reces<br>buildir<br>does r<br>insula           |
|   | U                         | U                         | Complies<br>Does Not<br>Not Observable | See the Envelope Assemblies<br>table for values.  | 5.<br>[1] | 8.1.7.1<br>N15] <sup>2</sup> | Attics<br>have i<br>adjace<br>access           |
|   | U                         | U                         | Complies                               | See the Envelope Assemblies table for values.   |           |                              |  |
|   |                           | <br> <br> <br>            | ∐Not Observable<br>□Not Applicable     |   |           |                              |  |
|   | SHGC:                     | SHGC:                     | □Complies<br>□Does Not                 | See the Envelope Assemblies table for values.   |           |                              |  |
|   |                           |                           | □Not Observable<br>□Not Applicable     |   |           |                              |  |
|   | SHGC:                     | SHGC:                     | □Complies<br>□Does Not                 | <i>See the Envelope Assemblies table for values.</i>  |           |                              |  |
|   |                           |                           | □Not Observable<br>□Not Applicable     |   |           |                              |  |
|   |                           |                           | □Complies<br>□Does Not                 |   |           | OF                           | OP   |
|   |                           |                           | □Not Observable<br>□Not Applicable     |   |           | STA                          |  |
|   |                           |                           | □Complies<br>□Does Not                 |   |           | 18                           | 59   |
| 2 |                           |                           | □Not Observable<br>□Not Applicable     |   |           | Include                      | this s   |
|   | U<br>Swinging Nonswinging | U<br>Swinging Nonswinging | Complies                               | See the Envelope Assemblies<br>table for values.  |           | Jurisdi                      | iction:  |
|   |                           |                           | Not Applicable                         |   |           |                              |  |

|           |  |   | 1                                   | 1  |  |
|-----------|--|---|-------------------------------------|--|--|
| on<br>.ID | Insulation Inspection  | Plans Verified<br>Value                     | Field Verified<br>Value             | Complies?  | Comments/Assump                              |
|           | Installed roof insulation type and<br>R-value consistent with insulation<br>specifications reported in plans<br>and COMcheck reports. For some<br>ceiling systems, verification may<br>need to occur during Framing<br>Inspection. | R<br>Above deck<br>Metal<br>Attic           | R<br>Above deck<br>Metal<br>Attic   | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | See the Envelope Assemb<br>table for values. |
| ,         | Roof insulation installed per<br>manufacturer's instructions.<br>Blown or poured loose-fill<br>insulation is installed only where<br>the ceiling slope is <= 3:12.   |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |
|           | Installed above-grade wall<br>insulation type and R-value<br>consistent with insulation<br>specifications reported in plans<br>and COMcheck reports.   | R<br>  Mass<br>  Metal<br>  Steel<br>  Wood | R<br>Mass<br>Metal<br>Steel<br>Wood | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | See the Envelope Assemb<br>table for values. |
|           | Above-grade wall insulation<br>installed per manufacturer's<br>instructions.   |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |
|           | Installed floor insulation type and<br>R-value consistent with insulation<br>specifications reported in plans<br>and COMcheck reports.   | R<br>Mass<br>Steel<br>Wood                  | R<br>Mass<br>Steel<br>Wood          | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | See the Envelope Assemb<br>table for values. |
|           | Building envelope insulation is<br>labeled with R-value or insulation<br>certificate has been provided<br>listing R-value and other relevant<br>data.  |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |
|           | Building envelope insulation<br>extends over the full area of the<br>component at the proposed rated<br>R or U value.  |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |
|           | Eaves are baffled to deflect air to above the insulation.  |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |
|           | Insulation is installed in<br>substantial contact with the<br>inside surface separating<br>conditioned space from<br>unconditional space.  |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |
|           | Recessed equipment installed in<br>building envelope assemblies<br>does not compress the adjacent<br>insulation.   |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |
| .1        | Attics and mechanical rooms<br>have insulation protected where<br>adjacent to attic or equipment<br>access.  |   |                                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable |  |

![](_page_6_Picture_4.jpeg)

# COMcheck Supplement

2021 Oregon Energy Efficiency Specialty Code Compliance

| Jurisuicuon.   |  |
|--|--|
| BUILDING   | INFORMATION  |
| Applicant name: SCOTT MARSHALL, AIA-NCAR   | B Phone number: 208-991-0855   |
| Project name: CLASSROOM BUILDING   |  |
| Address / location: 301 S 3RD STREET   |  |
| City: ALSEA  | State: <b>OR</b> ZIP: 97324  |
| Check here if not applicable and no items apply  |  |
| CON  | IPLIANCE   |
| DATA CENTERS   |  |
| ASHRAE 90.4-2019 compliance (Sections 6.2.2, 6.5.  | 1, 8.2.1, and 8.5)  Check if not applicable  |
| Mechanical design – Registered design professional   | Power design – Registered design professional  |
| Printed name:  | Printed name:  |
| Registration number:   | Registration number:   |
| Signature. Date  | Signature: Da  |
| SECTION 5: ENVELOPE COMPLIANCE   | Signature: Da  |
| SECTION 5: ENVELOPE COMPLIANCE<br>5.1.2.3: Unconditioned space with limited radiant he   | ating  |
| SECTION 5: ENVELOPE COMPLIANCE<br>5.1.2.3: Unconditioned space with limited radiant he<br>(See Oregon amendment 6.5.8.3 HVAC)  | ating  Check if not applicable   |
| SECTION 5: ENVELOPE COMPLIANCE<br>5.1.2.3: Unconditioned space with limited radiant he<br>(See Oregon amendment 6.5.8.3 HVAC)<br>Space is identified on plans. Coverage area wit<br>500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3   | ating Check if not applicable  |
| SECTION 5: ENVELOPE COMPLIANCE         5.1.2.3: Unconditioned space with limited radiant he         (See Oregon amendment 6.5.8.3 HVAC)         Space is identified on plans. Coverage area wit         500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3         Automatic controls for radiant spot heating per   | ating Check if not applicable  a limited radiant heating is identified on plans and the le 6.5.8.3.  |
| SECTION 5: ENVELOPE COMPLIANCE         5.1.2.3: Unconditioned space with limited radiant he         (See Oregon amendment 6.5.8.3 HVAC)         Space is identified on plans. Coverage area wit         500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3         Automatic controls for radiant spot heating per Plans and specs.:   | ating Check if not applicable  a limited radiant heating is identified on plans and the le 6.5.8.3.  |
| SECTION 5: ENVELOPE COMPLIANCE         5.1.2.3: Unconditioned space with limited radiant he         (See Oregon amendment 6.5.8.3 HVAC)         Space is identified on plans. Coverage area wit         500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3         Automatic controls for radiant spot heating per         Plans and specs.:         5.4.3.3: Vestibules: additional exception   | Signature:       Da         ating       Check if not applicable         atinited radiant heating is identified on plans and the la       6.5.8.3.         Check if not applicable       Check if not applicable  |
| SECTION 5: ENVELOPE COMPLIANCE         5.1.2.3: Unconditioned space with limited radiant he         (See Oregon amendment 6.5.8.3 HVAC)         Space is identified on plans. Coverage area wit         500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3         Automatic controls for radiant spot heating per         Plans and specs.:         5.4.3.3: Vestibules: additional exception         This project shall furnish a whole-building air leaks   | Signature:       Da         ating       Check if not applicable         atinited radiant heating is identified on plans and the la       6.5.8.3.         Check if not applicable       Endet if not applicable         ating       Check if not applicable         ating       Da   |
| SECTION 5: ENVELOPE COMPLIANCE         5.1.2.3: Unconditioned space with limited radiant he         (See Oregon amendment 6.5.8.3 HVAC)         Space is identified on plans. Coverage area wit         500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3         Automatic controls for radiant spot heating per         Plans and specs.:         5.4.3.3: Vestibules: additional exception         This project shall furnish a whole-building air leaks         Building is less than 25,000 ft <sup>2</sup> .  | Signature:       Da         ating       Check if not applicable         atinited radiant heating is identified on plans and the la       6.5.8.3.         6.5.8.3.       Check if not applicable         age report in lieu of providing a vestibule per the follow  |
| SECTION 5: ENVELOPE COMPLIANCE         5.1.2.3: Unconditioned space with limited radiant he         (See Oregon amendment 6.5.8.3 HVAC)         Space is identified on plans. Coverage area wit         500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3         Automatic controls for radiant spot heating per         Plans and specs.:         5.4.3.3: Vestibules: additional exception         This project shall furnish a whole-building air leakage         Building is less than 25,000 ft <sup>2</sup> .         Reported whole-building air leakage testing per  | Signature:       Da         ating       Check if not applicable         atinited radiant heating is identified on plans and the least of the follow       6.5.8.3.         Check if not applicable       and the least of the follow         ating       Check if not applicable         ating       Check if not applicable |
| SECTION 5: ENVELOPE COMPLIANCE         5.1.2.3: Unconditioned space with limited radiant he         (See Oregon amendment 6.5.8.3 HVAC)         Space is identified on plans. Coverage area wit         500 ft <sup>2</sup> or 10% of floor area per 6.5.8.3         Automatic controls for radiant spot heating per         Plans and specs.:         5.4.3.3: Vestibules: additional exception         This project shall furnish a whole-building air leakage         Building is less than 25,000 ft <sup>2</sup> .         Reported whole-building air leakage testing per         Plans and specifications shall identify building | Signature:       Da         ating       Check if not applicable         at ing       Check if not applicable         at ing       Check if not applicable         at ing       Check if not applicable         6.5.8.3.       Check if not applicable         at ing       Check if                       |

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| SECTION 5: ENVELOPE COMPLIANCEcontinued  Section 5: ENVELOPE COMPLIANCEcontinued  Section 6: ENVELOPE COMPLIANCEcontinued  Section 8: Envelope Compliance control reading of the starge of t           |   |
| SECTION 5: ENVELOPE COMPLIANCEcontinued         Plans and specs.:         Printed name       Signature         Registration number       Date         SECTION 6: HVAC         64.3.5.1 Packaged HVAC Equipment with Electric Heat       Check if not applicable         Plans and specs.:       Plans and specs.         Plans and specs.:       Check if not applicable         Overhead radiant heating for Enclosed Unconditioned Spaces       Check if not applicable         Overhead radiant heating for cocupied areas of the lesser of 500 ft <sup>3</sup> or 10% of floor area       Plans and specs.:         SECTION 8: POWER       EA.2. Additional efficiency provided with the following method (select one)         Plans and specs.:       Signature         SECTION 8: POWER       EA.2. Additional efficiency provided with the following method (select one)         Performance Compliance report showing minimum 3% better performance than minimum         COMcheck Lighting report showing minimum 3% passing or higher         ASHRAE 90.1-2019 COMcheck forms included         COMcheck Lighting report showing minimum 5% passing or higher         ASHRAE 90.1-2019 COMcheck forms included         Section 11 ECB report included         Printed name       Signature         Registration number       Date         Registrated design profesional       Encek if not applicable<  |   |
| Registered design professional         SECTION 6: HVAC         6.4.3.5.1: Packaged HVAC Equipment with Electric Heat       Check if not applicable         21,500 Btu/h or greater have heat pump operation for first stage of heating         Plans and specs.:       Check if not applicable         0 Overhead radiant heating for Enclosed Unconditioned Spaces       Check if not applicable         0 Overhead radiant heating for occupied areas of the lesser of 500 ft <sup>2</sup> or 10% of floor area       Date:         Plans and specs.:       SECTION 8: POWER         8.4.2: Receptacle Control Exception       Check if not applicable         Building is not providing controlled receptacles required per Section 8.4.2. Additional efficiency provided with the following method (select one)       Performance Compliance report showing minimum 3% better performance than minimum         0 Section 11 ECB report included or       Appendix G report included       COMeheck Envelope Compliance report showing minimum 3% passing or higher         0 CMcheck Lighting report showing minimum 5% passing or higher       Date:       Prioted name         Signature       Registration number       Date:       Polect:         9.4.3: Dvelling units       Check if not applicable       Date:         9.4.3: Dvelling units lighting with 100% high efficacy lamps       Phases (PHASES (PHASES)       Date:  | ruction<br>ams Avenue                                   |
| 6.4.3.5.1: Packaged HVAC Equipment with Electric Heat       Check if not applicable <ul> <li>Packaged HVAC systems with less than 241,000 Btu/h cooling capacity, with electric heating capacity of 21,500 Btu/h or greater have heat pump operation for first stage of heating</li> <li>Plans and specs.:</li> </ul> <ul> <li>Overhead radiant heating for Enclosed Unconditioned Spaces</li> <li>Check if not applicable</li> <li>Overhead radiant heating for occupied areas of the lesser of 500 ft<sup>2</sup> or 10% of floor area</li> <li>Automatic control: manual time switch or occupancy sensor</li> <li>Plans and specs.:</li> </ul> SECTION 8: POWER           8.4.2: Receptacle Control Exception         Check if not applicable               Building is not providing controlled receptacles required per Section 8.4.2. Additional efficiency provided with the following method (select one)               Performance Compliance report showing minimum 5% better performance than minimum               COMcheck Envelope Compliance report showing minimum 3% passing or higher               ASHRAE 90.1-2019 COMcheck forms included               COMcheck Lighting report showing minimum 5% passing or higher               ASHRAE 90.1-2019 COMcheck forms included               Section 9: LIGHTING               9.4.3: Dwelling units               Plans and specs::  | Const<br>)2 Ada   |
| Packaged HVAC systems with less than 241,000 Btu/h cooling capacity, with electric heating capacity of 21,500 Btu/h or greater have heat pump operation for first stage of heating   Plans and specs.:     6.5.8.3: Radiant Heating for Enclosed Unconditioned Spaces I Check If not applicable   Overhead radiant heating for occupied areas of the lesser of 500 ft <sup>2</sup> or 10% of floor area   Automatic control: manual time switch or occupancy sensor   Plans and specs.:   SECTION 8: POWER   8.4.2: Receptacle Control Exception   Building is not providing controlled receptacles required per Section 8.4.2. Additional efficiency provided with the following method (select one)   Performance Compliance report showing minimum 5% better performance than minimum   Section 11 ECB report included or   ASHRAE 90.1-2019 COMcheck forms included   COMcheck Lighting report showing minimum 5% passing or higher   ASHRAE 90.1-2019 COMcheck forms included   SECTION 9: LIGHTING   9.4.3: Dwelling units   Section 11 ECB report included   Dowelling units lighting with 100% high efficacy lamps   Princet name   Signature   Registration number   Date:   Project:   Version History   Phans and specs::   | CB<br>12(<br>12(  |
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| 8.4.2: Receptacle Control Exception       Image: Check if not applicable         Building is not providing controlled receptacles required per Section 8.4.2. Additional efficiency provided with the following method (select one)       Image: Check if not applicable         Image: Performance Compliance report showing minimum 5% better performance than minimum       Image: Compliance report showing minimum 3% passing or higher       Image: Compliance report showing minimum 3% passing or higher       Image: Compliance report showing minimum 3% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report showing minimum 5% passing or higher       Image: Compliance report show   |   |
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|   | General Notes         Applicable to this sheet only         GENERAL ABBREVIATIONS:         (N)       New         (D)       Demolish         (E)       Existing         (X")       Height Above Fin. Floor         (TYP)       Typical (x)=#         (NIC)       Not in Contract         (UNO)       Unless Noted         Otherwise       Elevation         (X)       Number or Quantity   | SPECIFIC ABBREVIATIONS:BOT or BBOTTOMBLDGBUILDINGCEILCEILINGCONCCONCRETECONTCONTINUOUSCMUMASONRYEAEACHEXTEXTERIORFFFINISH FLOORINTINTERIORMTLMETALMOMASONRY OPENINGREFREFERENCEDTOSTOP OF SLABTOMTOP OF MASONRYTPTOP PLATETO or TTOP OFT&BTOP & BOTTOMVERT (V)VERTICAL   | NOT FOR<br>CONSTRUCTION<br>PROGRESS /<br>COORDINATION<br>SET ONLY  | E        |
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|   | This Sheet only         BIA       ATTIC INSULATION (THERMAL)-<br>R-60, GLASS FIBER UN-FACED<br>LOOSE BATT.         BIW       WALL INSULATION (THERMAL)-<br>R-27, CLOSED CELL, SEE WALL<br>TYPES & HORIZ. WALL SECTIONS         BIS       INTERIOR WALL INSULATION<br>(SOUND)- R-19, GLASS FIBER<br>UN-FACED LOOSE BATT (AT ALL<br>INTERIOR WALLS)         CF       CONCRETE FOUNDATION WALL<br>(STEM WALL) & FOOTINGS - AS<br>PER STRUCTURAL FOUNDATION<br>PLAN   | LUMBER (DIMENSIONAL) -         DIMENSIONAL WOOD STUD,         BEAM, LEDGER, HEADER, ETC         SEE FRAMING PLAN FOR SIZE,         SPECIES & RATING.         LUMBER (ENGINEERED) - BEAM,         HEADERS, LEDGERS, SEE         FRAMING PLAN FOR SIZING,         CONNECTIONS, PLACEMENT.         LUV         LOUVER / VENT - SUPERIMPOSED,         SHOWN FOR GRAPHICAL         PURPOSES, SEE EXTERIOR         ELEVATIONS.   | 301 SOUTH 3rd STREET<br>ALSEA, OREGON 97324  | D        |
|   | <ul> <li>(S) EXTERIOR CONCRETE SLAB - SEE<br/>ARCHITECTURAL SITE PLAN &amp;<br/>ASSOCIATED DETAILS.</li> <li>(FS) INTERIOR CONCRETE FLOOR<br/>SLAB - SEE STRUCTURAL<br/>FOUNDATION PLAN, PROVIDE<br/>VAPOR BARRIER DIRECTLY<br/>BELOW CONCRETE SLAB AS<br/>DETAILED</li> <li>(FL) FLASHING - GALV. / PRE-<br/>INISHED ROOF / WALL<br/>FLASHING - SEE ROOF DETAILS</li> <li>(GB) GYPSUM BOARD (X) LAYERS -<br/>LAYERS AS NOTED OF 5%" TYPE<br/>'X' GYPSUM BOARD (X) LAYERS -<br/>LAYERS AS NOTED OF 5%" TYPE<br/>'X' GYPSUM BOARD. SEE WALL<br/>TYPES &amp; SECTIONS FOR MORE<br/>DETAILS.</li> <li>(HL) HARD LID - 5" TYPE 'X' GYP. BD.<br/>AT TRUSS BOTTOM CHORD</li> <li>(HM) HOLLOW METAL DOOR /<br/>WINDOW FRAME - WELD ALL<br/>FRAMES, SAND, PRIME, PAINT -<br/>INSULATE AT EXTERIOR, SEE<br/>DOOR &amp; WINDOW DETAILS.</li> </ul>  | <ul> <li>MECH. EQUIPMENT - AS<br/>GRAPHICALLY SHOWN, SEE<br/>MECHANICAL PLANS</li> <li>RIGID INSULATION - 3" EXTRUDED<br/>POLYSTYRENE AT FOUNDATION<br/>EXTERIOR &amp; BELOW GRADE<br/>APPLICATIONS.</li> <li>SIDING / SOFFIT - SEE EXTERIOR<br/>ELEVATIONS &amp; DETAILS</li> <li>SIDING TRIM - ENGINEERED WOOD,<br/>x = 4" or 6", SEE EXTERIOR<br/>ELEVATIONS FOR MORE DETAILS</li> <li>THICKENED CONCRETE SLAB -<br/>EXTERIOR, SEE SITE PLAN</li> <li>VINYL WINDOWS - TRIPLE<br/>PANE, TINTED, SEE WINDOW<br/>ELEVATIONS, ENERGY<br/>ANALYSIS &amp; PROJECT MANUAL</li> <li>WOOD TRUSS - ENGINEERED<br/>PRE-MANUFACTURED WOOD<br/>TRUSSES, SEE STRUCTURAL<br/>DRAWINGS &amp; APPROVED TRUSS<br/>SHOP DRAWINGS.</li> </ul> | SCHOOL DISTRICT<br>CLASSROOM BUILDING  | C        |
|   | ABOVE / BEYOND - OBJECT         1       ABOVE / BEYOND - OBJECT         ABOVE AND/OR BEYOND         2       WALL LOUVER / GRILLE - SEE         MECHANICAL DRAWINGS  | OUCT - SEE MECHANICAL     DRAWINGS      ORABINETS / MILLWORK - SEE     10 SERIES SHEETS      SSES     MANUFACTURER:     TOM CHORD, TOP CHORD, & WEB LUMBER   | onst, Inc<br>a ALSEA (<br>ALSEA (<br>1c.11: (<br>1c.11: (<br>a Avenue<br>DR 97850  |          |
|   | SIZES SHOWN ON THE PLANS ARE GRAP<br>THE ENGINEER / MANUF. TOP PROVIDE<br>DESIGN AND SPACING OF FASCIA, SOFFI<br>2. PANEL POINTS, PANEL LENGTHS, WEE<br>SPLICES, ETC. SHOWN ARE GRAPHICAL II  | HICAL. IT SHALL BE THE RESPONSIBILITY OF<br>TRUSSES TO CONFORM TO INTENDED<br>T, ETC. FASCIAS SHALL ALIGN CONT.<br>BBING, TRUSS PLATES, LATERAL BRACES,<br>N NATURE.   | CB Constru<br>1202 Adam<br>LaGrande, L   | В        |
|   | Wall Types         Interior: Partition         Interior: Partin         Interior: Partition | N & BEARING WALL: 2x4 (4) - 2x6 (6)<br>O.C W/ SOLID BLOCKING @ 48" OC.<br>('GYP. BD. (FACE TOILET ROOM<br>H FRP PANELS AS PER ROOM FINISH<br>SOUND BATT INSULATION AT ALL<br>L: 2x6 STUDS AT 16" O.C. FACE AS<br>AN. TOP W/ 8" WIDE FINISH CAP,<br>E, HEIGHT 48"<br><u>NG ENVELOPE - 2x6 WOOD STUDS</u><br>ATE, ON SILL SEALER, W/ AB'S PER<br>ATE WALL WITH CLOSED CELL<br>NE FOAM (SPF) - R-27<br>N FOR LOCATION AND NAILING<br>SHEAR WALLS & PANELS <i>INSIDE</i><br>'GYP. BD. (SEE SECTIONS)<br>RTICALLY SET 7/16" OSB AND<br>ER. <i>SIDING:</i> ENGINEERED WOOD 4x8<br>ONS FOR SIZE & LOCATION OF<br>EQUIREMENTS.)  | ACHIECTOR<br>ACHIECTOR<br>Date: 1-13-2022<br>Project: ALS-18201<br>PHASES (PH): 1c.11<br>ISSUE: 1-13-22<br>Suite 102 - Boise, Idaho 83300<br>PHASES (PH): 1c.11<br>ISSUE: 1-13-22<br>98% FINAL COORD<br>DRAWING NO.<br>CLASSROOM BUILDING<br>WALL SECTIONS | A        |
| 4 | 3   |  | 2  | <b> </b> |

![](_page_14_Figure_0.jpeg)

| 4   | 3   |   | 2   |   |
|-----|---|---|---|---|
|     | General Notes<br>Applicable to this sheet only<br>GENERAL ABBREVIATIONS:<br>(N) New<br>(D) Demolish<br>(E) Existing<br>(X") Height Above Fin. Floor<br>(TYP) Typical (x)=#<br>(NIC) Not in Contract<br>(UNO) Unless Noted<br>Otherwise Elevation<br>(X) Number or Quantity  | SPECIFIC ABBREVIATIONS:BOT or BBOTTOMBLDGBUILDINGCEILCEILINGCONCCONCRETECONTCONTINUOUSCMUMASONRYEAEACHEXTEXTERIORFFFINISH FLOORINTINTERIORMTLMETALMOMASONRY OPENINGREFREFERENCEDTOSTOP OF SLABTOMTOP OF MASONRYTPTOP OFT&BTOP & BOTTOMVERTICALVERTICAL  | NOT FOR<br>CONSTRUCTION<br>PROGRESS /<br>COORDINATION<br>SET ONLY   | E |
|     |   | HORIZ (H) HORIZONTAL  |   |   |
|     | This Sheet only   | LUMBER (DIMENSIONAL) -  | 324<br>324  | D |
|     | BiA       R-60, GLASS FIBER UN-FACED<br>LOOSE BATT.         BiW       WALL INSULATION (THERMAL)-<br>R-27, CLOSED CELL, SEE WALL<br>TYPES & HORIZ. WALL SECTIONS         BIS       INTERIOR WALL INSULATION<br>(SOUND)- R-19, GLASS FIBER<br>UN-FACED LOOSE BATT (AT ALL<br>INTERIOR WALLS)         CF       CONCRETE FOUNDATION WALL<br>(STEM WALL) & FOOTINGS - AS<br>PER STRUCTURAL FOUNDATION<br>DI ANL  | LB       DIMENSIONAL WOOD STUD,<br>BEAM, LEDGER, HEADER, ETC<br>SEE FRAMING PLAN FOR SIZE,<br>SPECIES & RATING.         LI       LUMBER (ENGINEERED) - BEAM,<br>HEADERS, LEDGERS, SEE<br>FRAMING PLAN FOR SIZING,<br>CONNECTIONS, PLACEMENT.         LV       LOUVER / VENT - SUPERIMPOSED,<br>SHOWN FOR GRAPHICAL<br>PURPOSES, SEE EXTERIOR<br>ELEVATIONS. | 301 SOUTH 3rd STR<br>ALSEA, OREGON 97   |   |
|     | CS EXTERIOR CONCRETE SLAB - SEE<br>ARCHITECTURAL SITE PLAN &  | ME<br>ME<br>GRAPHICALLY SHOWN, SEE<br>MECHANICAL PLANS  | IJ  |   |
|     | ASSOCIATED DETAILS.<br>(FS) INTERIOR CONCRETE FLOOR<br>SLAB - SEE STRUCTURAL<br>FOUNDATION PLAN, PROVIDE<br>VAPOR BARRIER DIRECTLY<br>BELOW CONCRETE SLAB AS<br>DETAILED  | RIGID INSULATION - 3" EXTRUDED<br>POLYSTYRENE AT FOUNDATION<br>EXTERIOR & BELOW GRADE<br>APPLICATIONS.<br>SD SIDING / SOFFIT - SEE EXTERIOR<br>ELEVATIONS & DETAILS   | LDIN  |   |
|     | FL FLASHING - GALV. / PRE-<br>INISHED ROOF / WALL<br>FLASHING - SEE ROOF DETAILS  | $(STx) \frac{SIDING TRIM}{x = 4" \text{ or } 6", SEE EXTERIOR}$   | RIC<br>BUI  |   |
|     | GBX<br>(GBX)<br>GBX<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GBX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX)<br>(GAX) | TS THICKENED CONCRETE SLAB<br>EXTERIOR, SEE SITE PLAN<br>VINYL WINDOWS - TRIPLE<br>PANE, TINTED, SEE WINDOW<br>ELEVATIONS, ENERGY   | DIST<br>DOM I   | С |
|     | HL HARD LID - <sup>8</sup> " TYPE 'X' GYP. BD.<br>AT TRUSS BOTTOM CHORD<br>HM HOLLOW METAL DOOR /<br>WINDOW FRAME - WELD ALL<br>FRAMES, SAND, PRIME, PAINT -<br>INSULATE AT EXTERIOR, SEE<br>DOOR & WINDOW DETAILS.   | ANALYSIS & PROJECT MANUAL<br>WOOD TRUSS - ENGINEERED<br>PRE-MANUFACTURED WOOD<br>TRUSSES, SEE STRUCTURAL<br>DRAWINGS & APPROVED TRUSS<br>SHOP DRAWINGS.   | SCHOOL  |   |
|     | Reference Notes   |   | 1: (  |   |
|     | 1       ABOVE / BEYOND - OBJECT         ABOVE AND/OR BEYOND         2       WALL LOUVER / GRILLE - SEE         MECHANICAL DRAWINGS  | 3 DUCT - SEE MECHANICAL<br>DRAWINGS<br>4 CABINETS / MILLWORK - SEE<br>10 SERIES SHEETS  | ALSI<br>1c.1  |   |
|     | ATTENTION MANUFACTURED TRUSS ENGINEER<br>1. MANUFACTURED WOOD TRUSS BOTT<br>SIZES SHOWN ON THE PLANS ARE GRAP<br>THE ENGINEER / MANUF. TOP PROVIDE<br>DESIGN AND SPACING OF FASCIA, SOFFI<br>2. PANEL POINTS, PANEL LENGTHS, WEE<br>SPLICES, ETC. SHOWN ARE GRAPHICAL IN  | CONTRACTOR SEARCH STREET STATES SEES<br>TOM CHORD, TOP CHORD, & WEB LUMBER<br>HICAL. IT SHALL BE THE RESPONSIBILITY OF<br>TRUSSES TO CONFORM TO INTENDED<br>T, ETC. FASCIAS SHALL ALIGN CONT.<br>BBING, TRUSS PLATES, LATERAL BRACES,<br>N NATURE.  | CB Construction<br>1202 Adams Avenue<br>LaGrande, OR 97850  |   |
|     |   |   | A SCHOOL SCHOOL   | В |
|     |   |   | CCHITECTURE<br>S. COM   |   |
|     |   |   | <b>GHT</b><br>AF<br>dale Road,<br>daho 83709<br>ine.biz<br>reArchitects   |   |
|     |   | N & REARING WALLS 254 (4) 255 (C)   | AL<br>h Clover<br>- Boise, I<br>Straightli<br>traightli   |   |
|     | A8.0<br>FACES WITH SMOOT<br>SCHEDULE DROVIDS  | A DEMINIO WALL, 2X4 (4) - 2X6 (6)     O.C W/ SOLID BLOCKING @ 48" OC.     (' GYP. BD. (FACE TOILET ROOM     H FRP PANELS AS PER ROOM FINISH     SOLIND BATT INSULATION AT ALL   | 515<br>1521 Sout<br>1521 Sout<br>1521 Sout<br>1528.991<br>122<br>122<br>122<br>122<br>122<br>122<br>122<br>122<br>122 |   |
|     | H<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B  | L: 2x6 STUDS AT 16" O.C. FACE AS<br>AN. TOP W/ 8" WIDE FINISH CAP,  | Date: 12-9-2021<br>Project: ALS-1821<br>Version History: V1.0   |   |
|     | FACE WITH LAMINAT   | с, ныбнт 48 <sup>°°</sup><br><u>NG ENVELOPE</u> - 2x6 WOOD STUDS<br>ATE, ON SILL SEALER, W/ AB'S PER<br>ATE WALL WITH CLOSED CELL   | PHASES (PH): 1c.11<br>ISSUE: 12-22-21   | А |
|     | SPRAY POLYURETHAN<br>- SEE FRAMING PLAN<br>REQUIREMENTS FOR   | NE FOAM (SPF) - R-27<br>N FOR LOCATION AND NAILING<br>SHEAR WALLS & PANELS <i>INSIDE</i>  | 50% PROGRESS  |   |
| 2 3 | EXTERIOR FACE = 5/8 TYPE X<br>EXTERIOR FACE = VE<br>INFILTRATION BARRII<br>SHEETS (SEE ELEVATI<br>TRIM, AND COLOR RI  | RTICALLY SET 7/16" OSB AND<br>ER. <i>SIDING:</i> ENGINEERED WOOD 4x8<br>ONS FOR SIZE & LOCATION OF<br>EQUIREMENTS.)   | CLASSROOM BUILDING<br>WALL SECTIONS   |   |
| 4   | 3   |   | 2   |   |

![](_page_15_Picture_0.jpeg)

![](_page_15_Picture_1.jpeg)

![](_page_16_Figure_0.jpeg)

This sheet only

used.

Legend

D= X''

Depth

of

Cabinet

- **General Notes**
- 1. All General Notes, Keyed Notes, & Reference Keyed Notes defined on this sheet apply to this sheet only, and all notes may not be
- 2. All Dimensions shall be field verified (Existing & New construction) prior to fabrication of Millwork.
- 3. Refer to Mechanical & Electrical sheets for required millwork integration of outlets, vents & plumbing components.
- 4. See Cabinet Elevations for Number & Location of Adjustable Shelves.

**Reference Notes** 

This sheet only, not all notes may be used

(3) BACKSPLASH - 6" PLASTIC LAMINATE BACKSPLASH.

MATERIAL)

(4) TOE KICK - 4" TOE KICK (LINE WITH WALL DEFINED BASE

 $(5) \frac{\text{WALL BASE}}{\text{Schedule}} - \text{See Room Finish}$ 

(7) CABINET FILLER - PROVIDE INFILL STRIP IF REQUIRED

SEE SHEET

A10.2 FOR

ISOMETRIC

DRAWINGS

CABINET

- (UNO) = Unless Noted Otherwise (X) = Quantity of Keyed Note Item 5. See Cabinet Elevations for Toe
- Kick Dimensions. 6. See Cabinet Elevations for
- 7. See Cabinet Elevations for Vertical and Horizontal Dimensions.

Backsplash Dimensions.

### 'Letter' - 'Number' example: B29 Cabinet 🖳 🗌 – Width of

# Nomenclature Cabinet

- $\underbrace{1}_{OUNTERTOP} Plastic Laminate \\ \underbrace{8}_{-SEE RE-LITE \& WINDOWS BEYOND}_{-SEE RE-LITE \& WINDOW ELEVS.}$ (2) (N) SINK - REFER TO MECHANICAL SHEETS & FIXTURE COULD UP WALL CORNER GUARD - 2" x 4' METAL WALL CORNER GUARD AT FRP-1
  - & GYPSUM BOARD WALLS (10) EYE WASH - SEE PLUMBING
  - 11 SHELF CLEATS SUPPORT CORNER SECTION SHELF WITH FACE ATTACHED CLEAT
  - 12) TACK BOARD SEE FLOOR PLAN & PROJECT MANUAL.
- 6 OPEN KNEE SPACE OPEN BELOW 3 EXPOSED LAMINATE FACES -

# 14 MINI SPLIT HEAD UNIT -SEE MECHANICAL PLANS

### Interior Color & Material Schedule

See Project Manual for Material & Finish Requirements & Specifications, if applicable. PLASTIC LAMINATES (LAM-1) PLASTIC LAMINATE 'COLOR 1', PATTERNED 'LAM1' COUNTER TOP

LAM-2) PLASTIC LAMINATE 'COLOR 2', (WOOD GRAIN) COLOR 4', WHITE 'LAM2' EXPOSED FACES

- 3

- (LAM-3) PLASTIC LAMINATE 'COLOR 3', PATTERNED 'LAM3' COUNTER TOP
- 'LAM4' EXPOSED FACES
- NOT FOR CONSTRUCTION PRØGRESS / COORDINATION SET ONLY TH βĄ STRICT 1 BUILDING DISID OL SHO( SU 1: E ALSE 1c.1 **STRAIGHTLINE** ARCHITECTURE Date:12-9-2021Project:ALS-1821Version History:V1.0 PHASES (PH): 1c.11 ISSUE: 12-22-21 50% PROGRESS DRAWING NO. A10.1 MILLWORK

THREE REQUIRED

|     |                       |     |              | PUN       | VP SCHEDU      | $LE \begin{pmatrix} P \\ \# \end{pmatrix}$ | $\rightarrow$ |                |   |
|-----|-----------------------|-----|--------------|-----------|----------------|--|---------------|----------------|---|
| NO. | SYSTEM TYPE           | GPM | HEAD<br>(FT) | DISCHARGE | WATTS OR HP    | CHAR                                       | RPM           | WEIGHT<br>(LB) | N |
| 1   | HOT WATER RECIRC PUMP | 2   | 2            | -         | 4 - 60 W RANGE | 208/1Ø                                     | -             | 7              |   |

1 SET PUMP TO LOW SPEED PROPORTIONAL PRESSURE.

2 INTERLOCK PUMP WITH TIMECLOCK AND AQAUSTAT. TIMECLOCK SHALL ENABLE PUMP OPERATION DURING OCCUPIED HOURS. AQUASTAT SHALL COMMAND PUMP TO RUN. SET PUMP OPERATION TO MAINTAIN LOOP AT 105°F (USER ADJUSTABLE).

|     | ELECTRIC WATER HEATER SCHEDULE |                 |                        |                             |         |                           |                  |              |                         |                         |                              |         |
|-----|--------------------------------|-----------------|------------------------|-----------------------------|---------|---------------------------|------------------|--------------|-------------------------|-------------------------|------------------------------|---------|
| NO. | ТҮРЕ                           | NOM.<br>GALLONS | RATED STORAGE<br>(GAL) | 1ST HOUR<br>RATING<br>(GAL) | VOLTAGE | WATTS/<br>ELEMENT<br>(KW) | # OF<br>ELEMENTS | OPERATION    | RECOVERY<br>PERFORMANCE | WEIGHT W/<br>WATER (LB) | MANUFACTURER                 | REMARKS |
| 1   | LOWBOY                         | 47              | 43                     | 61.00                       | 208V/1Ø | 2.5                       | 2                | SIMULTANIOUS | 23 GPH @ 90° RISE       | GLASS LINED             | BRADFORD WHITE<br>LE250LN3-3 | 1, 2    |

8

1 PROVIDE GLASS LINED TANK.

10

2 PROVIDE WITH WALL MOUNT KIT WITH DRAIN OPENING.

| NUFACTURER | MODEL         | REMARKS |
|------------|---------------|---------|
| B&G        | ECOCIRC 19-16 | 1,2     |

7

8

| PLUMBING LEGEND |  |
|-----------------|--|
|                 |  |

6

| ــــــــــــــــــــــــــــــــــــــ | PIPE CONTINUATION                   | SYMBOL     |            |
|--|-------------------------------------|------------|------------|
|  |                                     | °F         | DI         |
| 0                                      |                                     | AC         |            |
| c                                      | PIPE DROP                           | ACH        |            |
| E                                      | PIPE CAP                            | AL         | A          |
| •                                      | REDUCTION IN PIPE SIZE              | ALT        | A          |
| Ŧ                                      | PT PORT                             | APD        |            |
|  | TEMPERATURE GAUGE                   | ВНР        | BF         |
| т<br>О                                 |                                     | BMS        | В          |
|  | PRESSURE GAUGE                      | BTU        | BF         |
|  | TEMPERATURE SENSOR                  | CFM        |            |
| P                                      | PRESSURE SENSOR                     | CHAR       | CI         |
| ΙŢΙ                                    | STRAINER                            | СОР        |            |
| 1 1                                    | UNION                               | DB         |            |
| $\overline{\bowtie}$                   | GLOBE VALVE                         | DBA        | DI         |
|  | BUTTERFLY VALVE                     | EA         | E>         |
|  |                                     | EAT        |            |
|  | BALL VALVE IN NISL/DROP             | EER        | E          |
| 0                                      | BALL VALVE                          | EFF        | EF         |
| $  \nabla  $                           | NEEDLE VALVE                        | ENT        | EN<br>F)   |
|  | CHECK VALVE                         | EVAP       | E\         |
| Ď                                      | CIRCUIT SETTER                      | EWB        | EN         |
| Ŕ                                      | PRESSURE REDUCING VALVE             | EWT<br>(F) | EN<br>E)   |
| MV                                     | MANUAL AIR VENT                     | FLA        | FL         |
| AV                                     |                                     | FM         | FF         |
|  |                                     | FT         | FE         |
| الكرية ♦ الكر                          | VACUUM BREAKER                      | HP         |            |
|  | REDUCED PRESSURE BACKFLOW PREVENTER | HR         | н          |
| 101/101                                | DOUBLE CHECK BACKFLOW PREVENTER     | HS         |            |
|  | PRESSURE RELIEF VALVE               | HSPF       | Н          |
|  | PIPE FLOW ARROW                     | IN         |            |
| _<                                     | PIPE SLOPE ARROW                    | KW<br>I B  | KI<br>P(   |
| ٦,                                     | HOSE BIBB                           | LAT        |            |
| ./                                     | WALL/FLOOR CLEAN OUT                | LVG        | LE         |
| × '                                    |                                     | LWB        |            |
|  |                                     | MAX        |            |
|  | ROOF OVERFLOW DRAIN SCUPPER         | MBH        | B          |
| T<br>X                                 | GAS REGULATOR                       | MC         | M          |
| —— DCW—— – -                           | DOMESTIC COLD WATER                 | MECH       |            |
| DHW                                    | DOMESTIC HOT WATER                  | MFR        | м          |
|  | WASTE                               | MOD        |            |
|  | PUMPED WASTE                        | NG         |            |
| //                                     | VENT                                | NIC        | N          |
|  |                                     | NO.        |            |
| C                                      | CONDENSATE                          | OA         |            |
| —— PC ———                              | PUMPED CONDENSATE                   | ОР         | 0          |
| G                                      | — GAS                               | PG         | PF         |
| BD                                     | BLOW DOWN                           | POC<br>PRV | P(<br>  Pf |
| LPS                                    | LOW PRESSURE STEAM                  | PSI        | PC         |
| FW                                     | FEED WATER                          | PSIG       | P(         |
|  |                                     | RA<br>RAT  |            |
|  |                                     | RCP        | R          |
|  |                                     | RPM        | RE         |
|  |                                     | SA         | Sl         |

| ABBREVIATIONS   |
|---|
| <br>DESCRIPTION<br>DEGREES FAHRENHEIT                       |
| <br>AIR CONDITIONING  |
| AIR CHANGES PER HOUR  |
| <br>ACOUSTICAL CEILING TILE                                 |
|   |
| <br>AIR PRESSURE DROP (INCHES W.G.)                         |
| AMERICAN SOCIETY OF MECHANICAL ENGINEERS                    |
| BRAKE HORSEPOWER  |
| BUILDING MANAGEMENT SYSTEM                                  |
|   |
| <br>CUBIC FEET PER MINUTE                                   |
| <br>CHARACTERISTICS   |
| COEFFICIENT OF PERFORMANCE                                  |
| CONSTANT VOLUME   |
| <br>DRY BULB  |
| <br>EXHAUST AIR   |
| <br>ENTERING AIR TEMPERATURE                                |
| ENTERING DRY BULB   |
| ENERGY EFFICIENCY RATIO                                     |
| <br>EFFECTIVENESS   |
| <br>EXTERNAL STATIC PRESSURE (INCHES W.G.)                  |
| <br>EVAPORATOR  |
| ENTERING WET BULB   |
| ENTERING WATER TEMPERATURE                                  |
| EXISTING  |
|   |
| <br>FEET  |
| <br>GALLONS PER MINUTE                                      |
| HORSEPOWER  |
|   |
| <br>HEAT SUPPLY<br>HEATING VENTILATION AND AIR CONDITIONING |
| <br>HEATING SEASONAL PERFORMANCE FACTOR                     |
| <br>INCH  |
| KILOWATTS   |
| <br>POUNDS  |
| <br>LEAVING AIR TEMPERATURE                                 |
| <br>LEAVING WET BULB  |
| LEAVING WATER TEMPERATURE                                   |
| MAXIMUM   |
| <br>BTUH'S IN THOUSANDS                                     |
|   |
| <br>MECHANICAL  |
| <br>MANUFACTURER  |
| MOTOR OPERATED DAMPER; MODULATING                           |
| NOISE CRITERIA  |
| <br>NATURAL GAS   |
| <br>NUMBER  |
| <br>NOT TO SCALE  |
| OUTSIDE AIR   |
| OPERATING   |
| <br>PROPYLENE GLYCOL  |
|   |
| <br>POUNDS PER SQUARE INCH                                  |
| POUNDS PER SQUARE INCH GAUGE                                |
| <br>RETURN AIR  |
|   |
| <br>REFLECTED CEILING PLAN                                  |
| <br>SUPPLY AIR  |
| <br>SUPPLY AIR TEMPERATURE                                  |
| SMOKE DAMPER  |
| <br>SENSIBLE  |
| <br>SEASONAL ENERGY EFFICIENCY RATING                       |
| <br>FIRE/SMOKE DAMPFR                                       |
| <br>STATIC PRESSURE EXTERNAL (INCHES W.G.)                  |

SQUARE FEET

STATIC PRESSURE (INCHES W.G.)

SAT

SD

SENS

SEER

SF

F/SD

SPE

SP

SQFT

4

|      | 5                               |
|------|---------------------------------|
|      |                                 |
| SS   | STAINLESS STEEL                 |
| S/T  | SENSIBLE TO TOTAL COOLING RATIO |
| SW   | SOFT WATER                      |
| TDH  | TOTAL DYNAMIC HEAD              |
| TEMP | TEMPERATURE                     |
| THD  | TOTAL HARMONIC DISTORTION       |
| TSP  | TOTAL STATIC PRESSURE           |
| ТҮР  | TYPICAL                         |
| VFD  | VARIABLE FREQUENCY DRIVE        |
| VTR  | VENT THROUGH ROOF               |
| VS   | VERSUS                          |
| WPD  | WATER PRESSURE DROP (FT HEAD)   |
| WB   | WET BULB                        |
| WC   | WATER COLUMN                    |
| W.G. | WATER GAUGE                     |
|      |                                 |
|      |                                 |

C

### PLUMBING SHEET INDEX

| #    | SHEET NAME              |
|------|-------------------------|
| P0.0 | HVAC COVER SHEET        |
| P1.1 | WASTE & VENT PLAN       |
| P1.2 | DOMESTIC WATER PLAN     |
| P2.1 | PLUMBING SPECIFICATIONS |

### **GENERAL PROJECT NOTES**

- 1. CONTRACTOR TO VERIFY EQUIPMENT LOCATIONS, DIMENSIONS, AND COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START C CONSTRUCTION.
- 2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3. ALL WORK IS TO BE IN COMPLIANCE WITH CURRENT CODES AS ADOP AND AMENDED BY THE LOCAL JURISDICTION. PROVIDE ALL LABOR A MATERIAL AS NECESSARY TO MEET THE CURRENT ADOPTED CODES.
- 4. RECORD DRAWINGS OF THE INSTALLATION ARE REQUIRED TO BE PROVIDED BY THE CONTRACTOR WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION. REDLINES OF AS-BUILT PLANS AND SPECIFICATIONS A ACCEPTABLE.
- 5. PROVIDE OPERATION AND MAINTENANCE MANUALS WITHIN 30 DAYS SUBSTANTIAL COMPLETION OF ALL EQUIPMENT INSTALLED.
- 6. INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SEISMICALLY BRAC PER CODE, MANUFACTURER RECOMMENDATIONS, OR STANDARD CONSTRUCTION PRACTICES, WHICHEVER IS MORE STRINGENT.
- 7. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.
- 8. INSTALL ALL WATER LINES ON EXTERIOR WALLS, INCLUDING LINES IN ATTIC OR ROOF, ON WARM SIDE (INSIDE) OF INSULATION.

|   | 301 SOUTH 3rd STREET<br>ALSEA, OREGON 97324        |  |
|---|--|--|
| ID<br>OF<br>PTED<br>AND<br>ARE<br>YS OF<br>ACED | ALSEA SCHOOL DISTRICT<br>1c.11: CLASSROOM BUILDING |  |
|   | Const, Inc   | CB Construction  |
|   | ALSEA<br>Moreau                                    | 1<br>5<br>ch   |
|   | STRAIGHTLINE<br>ARCHITECTURE                       | 45/1 South Cloveraale Koaa,<br>Suite 102 - Boise, Idaho 83709<br>P: 208.991.0855 |

NOT FOR ∕ constru¢ti∕on∖

PRØGRESS / COORDINATION SET ONLY

DRAWING NO. P0.0 PLUMBING COVER SHEET

Date:1-13-2022Project:ALS-1821Version History:V1.0

PHASES (PH): 1c.11

ISSUE: 1-13-22

98% FINAL COORD

|                     |       |                        |                | DUCT              | LESS S   | SPLIT I        | ND            |
|---------------------|-------|------------------------|----------------|-------------------|----------|----------------|---------------|
| REA SUPPLY<br>(CFM) | соо   | LING PERF              | ORMANCE        |                   | HEATIN   | G PERF         |               |
|                     | (CFM) | RATED COOLING<br>(MBH) | SENS.<br>(MBH) | NAT DB/WB<br>(°F) | LAT (°F) | SENS.<br>(MBH) | ENT D<br>(°F) |
|                     |       |                        |                |                   |          |                |               |

|         |           |                     |                        |                | DUCT              | LESS S              | PLIT I         | NDOC           | DR UN    | IIT SCHEDU                 | $JLE \xleftarrow{FC}{\#}$ |      |                              |           |
|---------|-----------|---------------------|------------------------|----------------|-------------------|---------------------|----------------|----------------|----------|----------------------------|---------------------------|------|------------------------------|-----------|
| O. AREA | SUPPLY    | COOLING PERFORMANCE |                        |                |                   | HEATING PERFORMANCE |                | ELECTRICAL     |          | WEIGHT                     |                           |      |                              |           |
|         | AKEA      | (CFM)               | RATED COOLING<br>(MBH) | SENS.<br>(MBH) | NAT DB/WB<br>(°F) | LAT (°F)            | SENS.<br>(MBH) | ENT DB<br>(°F) | LAT (°F) | MCA                        | CHAR                      | (LB) | MANUFACTURER/ MODEL          | REIVIARKS |
| 1       | CLASS 101 | 775                 | 24.0                   | 18.78          | 80/67             | 57.1                | 25.4           | 70.0           | 100.4    | POWERED BY<br>OUTDOOR UNIT | 208/1Ø                    | 46.0 | 'MITSUBISHI' TPKA0A0241KA70A | 1-3       |
| 2       | CLASS 102 | 775                 | 24.0                   | 18.78          | 80/67             | 57.1                | 25.4           | 70.0           | 100.4    | POWERED BY<br>OUTDOOR UNIT | 208/1Ø                    | 46.0 | 'MITSUBISHI' TPKA0A0241KA70A | 1-3       |
| 3       | CLASS 103 | 775                 | 24.0                   | 18.78          | 80/67             | 57.1                | 25.4           | 70.0           | 100.4    | POWERED BY<br>OUTDOOR UNIT | 208/1Ø                    | 46.0 | 'MITSUBISHI' TPKA0A0241KA70A | 1-3       |

1 PROVIDE MANUFACTURER SIZED REFRIGERANT LINE KITS, WALL MOUNTED WIRED THERMOSTAT, MOUNTING KIT, AND INLINE CONDENSATE PUMP IF NECESSARY FOR CONDENSATE ROUTING.

2 PROVIDE WITH COMPRESSOR TIME DELAY CONTROL, CRANKCASE HEATER, HIGH/LOW PRESSURE CONTROL, AND LOW AMBIENT CONTROL.

3 PROVIDE ALL ANCILLARY COMPONENTS REQUIRED FOR A FULL INSTALLATION.

|     |         |            |               |      | HEA        | T PUMP        | UNIT SC  | HEDULE     | HP<br># |  |
|-----|---------|------------|---------------|------|------------|---------------|----------|------------|---------|--|
|     | NOMINAL | COO        | LING PERFORMA | NCE  | HEATING    | G PERFORMANCE | E @ 47°F | ELECTRICAL |         |  |
| NO. | TONS    | NOM. (MBH) | SENS. (MBH)   | SEER | NOM. (MBH) | SENS. (MBH)   | HSPF     | MCA        | CHAR    |  |
| 1   | 2.0     | 24.0       | 24.67         | 19.5 | 26.0       | 25.3          | 10.6     | 17.0       | 208/1Ø  |  |
| 2   | 2.0     | 24.0       | 24.67         | 19.5 | 26.0       | 25.3          | 10.6     | 17.0       | 208/1Ø  |  |
| 3   | 2.0     | 24.0       | 24.67         | 19.5 | 26.0       | 25.3          | 10.6     | 17.0       | 208/1Ø  |  |
|     |         |            |               |      |            |               |          |            |         |  |

1 PROVIDE WITH WALL MOUNT KIT.

2 PROVIDE WITH ANTI-CORROSSION TREATMENT APPLIED TO CONDENSER COIL TO PROTECT FROM AIRBORNE CONTAMINANTS.

3 PROVIDE ALL ANCILLARY COMPONENTS REQUIRED FOR A FULL INSTALLATION.

|     | EXHAUST FAN SCHEDULE |     |      |                  |        |       |             |              |         |  |
|-----|----------------------|-----|------|------------------|--------|-------|-------------|--------------|---------|--|
| NO. | AREA<br>SERVED       | CFM | SPE  | WATTAGE<br>OR HP | CHAR   | SONES | ТҮРЕ        | MANUFACTURER | REMARKS |  |
| 1   | RESTROOM             | 75  | 0.25 | 34.2 W           | 115/1Ø | 1.4   | CEILING FAN | 'COOK' GC    | 1, 2    |  |
| 2   | RESTROOM             | 75  | 0.25 | 34.2 W           | 115/1Ø | 1.4   | CEILING FAN | 'COOK' GC    | 1, 2    |  |
| 3   | UTILITY              | 75  | 0.25 | 34.2 W           | 115/1Ø | 1.4   | CEILING FAN | 'COOK' GC    | 2,3     |  |

1 INTERLOCK FAN WITH LIGHT SWITCH.

2 PROVIDE BACK DRAFT DAMPER, BIRD SCREEN, HANGING ISOLATION KIT, ROOF CAP, AND PLUG DISCONNECT.

3 FURNISH WITH INTEGRAL THERMOSTAT AND OVERRIDE SWITCH. FAN TO OPERATE ABOVE 80°F.

![](_page_18_Figure_14.jpeg)

| WEIGHT<br>(LB) | MANUFACTURER/ MODEL          | REMARKS |
|----------------|------------------------------|---------|
| 151            | 'MITSUBISHI' TRUZH0241HA10NA | 1-3     |
| 151            | 'MITSUBISHI' TRUZH0241HA10NA | 1-3     |
| 151            | 'MITSUBISHI' TRUZH0241HA10NA | 1-3     |

7

# ELECTRIC UNIT HEATER SCHEDULE

| ). | CFM | kW  | MBH  | CHAR   | AMPS | MOUNT           | MANUFACTURER | REMARKS |
|----|-----|-----|------|--------|------|-----------------|--------------|---------|
|    | 100 | 1.5 | 5.12 | 120/1Ø | 12.5 | WALL - RECESSED | 'QMARK' CWH  | 1       |
|    | 100 | 1.5 | 5.12 | 120/1Ø | 12.5 | WALL - RECESSED | 'QMARK' CWH  | 1       |
|    | 100 | 1.5 | 5.12 | 120/1Ø | 12.5 | WALL - RECESSED | 'QMARK' CWH  | 1       |
|    | 100 | 1.5 | 5.12 | 120/1Ø | 12.5 | WALL - RECESSED | 'QMARK' CWH  | 1       |

1 FURNISH WITH INTEGRAL THERMOSTAT.

|               | NATUR | AL VENTILA               | FION CALCULATIO                 | N               |                       |
|---------------|-------|--------------------------|---------------------------------|-----------------|-----------------------|
| AREA          | SQFT  | 4% OF FLOOR<br>AREA (SF) | OPERABLE WINDOW<br>OPENING (SF) | # OF<br>WINDOWS | OPENING<br>TOTAL (SF) |
| CLASSROOM 101 | 682   | 27.3                     | 9.0                             | 4               | 36.0                  |
| CLASSROOM 102 | 740   | 29.6                     | 9.0                             | 4               | 36.0                  |
| CLASSROOM 103 | 732   | 29.3                     | 9.0                             | 4               | 36.0                  |

|    |   | T |
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|    |   |   |

| l      | LOAD CALCULATION SUMMARY FORM |      |                                      |                                      |  |  |  |
|--------|-------------------------------|------|--------------------------------------|--------------------------------------|--|--|--|
| ZONE # | EQUIPMENT                     | SQFT | COOLING LOAD WITH<br>FRESH AIR (MBH) | HEATING LOAD WITH<br>FRESH AIR (MBH) |  |  |  |
| 1      | FC/HP-1                       | 782  | 17.6                                 | 24.5                                 |  |  |  |
| 2      | FC/HP-2                       | 740  | 17.4                                 | 22.0                                 |  |  |  |
| 3      | FC/HP-3                       | 732  | 14.5                                 | 23.2                                 |  |  |  |
| 4      | EUH-1,2                       | 96   | 1.6                                  | 5.0                                  |  |  |  |
| 5      | EUH-3,4                       | 96   | 1.6                                  | 5.0                                  |  |  |  |

1. MECHANICAL SYSTEMS HAVE BEEN DESIGNED UNDER THE 2019 ASHRAE 90.1.

2. LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH ASHRAE 183.

3. DUCT SEALING SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.

4. ALL THERMOSTATS CONTROLLING HVAC SYSTEMS SHALL BE 7-DAY, SOLID STATE, PROGRAMMABLE THERMOSTATS WITH NIGHT SETBACK CAPABILITIES AT A MINIMUM.

## GENE

- 1. CONTE COORI CONST
- 2. ALL DI
- 3. ALL W AND A MATEF
- 4. RECOR PROVI COMP ACCEP
- 5. PROVI SUBST

6. INSTAL PER CO CONST

| CONTRACTOR TO VERIFY<br>COORDINATE ALL WORK IS<br>ALL DIMENSIONS ARE IN<br>ALL WORK IS TO BE IN CO<br>AND AMENDED BY THE LO<br>MATERIAL AS NECESSARY<br>RECORD DRAWINGS OF T<br>PROVIDE DRAWINGS OF T<br>PROVIDE OPERATION AND<br>SUBSTANTIAL COMPLETION<br>INSTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTICE<br>SYMBOL<br>SYMBOL<br>SYMBOL<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC  | EQUIPMENT LOCATIONS, DIMENSIONS, AND<br>WITH OTHER TRADES PRIOR TO THE START OF<br>INCHES UNLESS OTHERWISE NOTED.<br>DMPLIANCE WITH CURRENT CODES AS ADOPT<br>OCAL JURISDICTION. PROVIDE ALL LABOR AND<br>'TO MEET THE CURRENT ADOPTED CODES.<br>THE INSTALLATION ARE REQUIRED TO BE<br>RACTOR WITHIN 30 DAYS OF SUBSTANTIAL<br>OF AS-BUILT PLANS AND SPECIFICATIONS ARE<br>D MAINTENANCE MANUALS WITHIN 30 DAYS<br>ON OF ALL EQUIPMENT INSTALLED.<br>, PIPING, AND DUCTWORK SEISMICALLY BRACC<br>RECOMMENDATIONS, OR STANDARD<br>ES, WHICHEVER IS MORE STRINGENT.  | <ul> <li># SHEET</li> <li>M0.0 HVAC</li> <li>M1.1 HVAC</li> <li>M2.1 HVAC</li> </ul> ED           OF           ED           RCP           RPM           SA           SAT           SD           SENS           SEER           SF           F/SD  | NAME COVER SHEET PLAN SPECIFICATIONS  REFLECTED CEILING PLAN REVOLUTIONS PER MINUTE SUPPLY AIR SUPPLY AIR TEMPERATURE SMOKE DAMPER | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324<br>SEA, OREGON 97324 |        |
|--|---|--|--|--|--------|
| CONSTRUCTION.<br>ALL DIMENSIONS ARE IN<br>ALL WORK IS TO BE IN CO<br>AND AMENDED BY THE LO<br>MATERIAL AS NECESSARY<br>RECORD DRAWINGS OF T<br>PROVIDED BY THE CONTR<br>COMPLETION. REDLINES<br>ACCEPTABLE.<br>PROVIDE OPERATION AND<br>SUBSTANTIAL COMPLETION<br>INSTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTICE<br>SYMBOL<br>SYMBOL<br>AC AIR CON<br>ACH AIR CON<br>ACH AIR CON<br>ACH AIR CON<br>ACH AIR COUSTI<br>AL ACOUSTI<br>AL ACOUSTI<br>AL ACOUSTI<br>AL ACOUSTI<br>BHP BRAKE HI<br>BMS BUILDING<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAU<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAU<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAU<br>BTUH BRITISH T<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAU  | INCHES UNLESS OTHERWISE NOTED. DMPLIANCE WITH CURRENT CODES AS ADOPTIOCAL JURISDICTION. PROVIDE ALL LABOR AND TO MEET THE CURRENT ADOPTED CODES. THE INSTALLATION ARE REQUIRED TO BE RACTOR WITHIN 30 DAYS OF SUBSTANTIAL OF AS-BUILT PLANS AND SPECIFICATIONS ARE D MAINTENANCE MANUALS WITHIN 30 DAYS ON OF ALL EQUIPMENT INSTALLED. , PIPING, AND DUCTWORK SEISMICALLY BRACE RECOMMENDATIONS, OR STANDARD ES, WHICHEVER IS MORE STRINGENT.   REVIATION DESCRIPTION DESCRIPTION FAHRENHEIT DITIONING NGES PER HOUR ICAL CEILING TILE IC LINING ATIVE SURE DROP (INCHES W.G.) AN SOCIETY OF MECHANICAL ENGINEERS ORSEPOWER | M0.0 HVAC<br>M1.1 HVAC<br>M2.1 HVAC<br>M2.1 HVAC<br>C<br>C<br>F<br>C<br>F<br>C<br>F<br>C<br>F<br>C<br>F<br>C<br>F<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>F<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | COVER SHEET PLAN SPECIFICATIONS REFLECTED CEILING PLAN REVOLUTIONS PER MINUTE SUPPLY AIR SUPPLY AIR TEMPERATURE SMOKE DAMPER       | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324                      |        |
| ALL DIMENSIONS ARE IN<br>ALL WORK IS TO BE IN CO<br>AND AMENDED BY THE LO<br>MATERIAL AS NECESSARY<br>RECORD DRAWINGS OF T<br>PROVIDED BY THE CONTR<br>COMPLETION. REDLINES<br>ACCEPTABLE.<br>PROVIDE OPERATION ANI<br>SUBSTANTIAL COMPLETION<br>INSTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTIC<br>SYMBOL<br>SYMBOL<br>SYMBOL<br>AC AIR CON<br>AC AIR CON<br>AC AIR CON<br>AC AIR CON<br>AC AIR CON<br>AC AIR COUSTI<br>AL ACOUSTI<br>AL ACOUSTI<br>AL ACOUSTI<br>AL ACOUSTI<br>AL ACOUSTI<br>BHP BRAKE HI<br>BMS BUILDING<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACC<br>COP COEFFICI<br>CV CONSTAI<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACC  | INCHES UNLESS OTHERWISE NOTED.<br>DMPLIANCE WITH CURRENT CODES AS ADOPTI<br>OCAL JURISDICTION. PROVIDE ALL LABOR ANI<br>('TO MEET THE CURRENT ADOPTED CODES.<br>THE INSTALLATION ARE REQUIRED TO BE<br>RACTOR WITHIN 30 DAYS OF SUBSTANTIAL<br>OF AS-BUILT PLANS AND SPECIFICATIONS ARE<br>D MAINTENANCE MANUALS WITHIN 30 DAYS<br>ON OF ALL EQUIPMENT INSTALLED.<br>, PIPING, AND DUCTWORK SEISMICALLY BRAC<br>RECOMMENDATIONS, OR STANDARD<br>TES, WHICHEVER IS MORE STRINGENT.   | ED<br>M2.1 HVAC<br>M2.1 HVAC<br>ED<br>F<br>F<br>F<br>SA<br>SA<br>SA<br>SA<br>SA<br>SA<br>SA<br>SA<br>SA<br>SA  | REFLECTED CEILING PLAN<br>REVOLUTIONS PER MINUTE<br>SUPPLY AIR<br>SUPPLY AIR TEMPERATURE<br>SMOKE DAMPER                           | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324                      | _      |
| AND AMENDED BY THE LO<br>MATERIAL AS NECESSARY<br>RECORD DRAWINGS OF T<br>PROVIDED BY THE CONTR<br>COMPLETION. REDLINES<br>ACCEPTABLE.<br>PROVIDE OPERATION AND<br>SUBSTANTIAL COMPLETION<br>INSTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTIC<br>SYMBOL<br>SYMBOL<br>SYMBOL<br>AC AIR CONI<br>ACA AIR CONI<br>ACA AIR CONI<br>ACA AIR CONI<br>ACA AIR CONI<br>ACA AIR CONI<br>ALT ALTERNA<br>APD AIR PRES<br>ASME AMERICA<br>BHP BRAKE HI<br>BMS BUILDING<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>CONSTAN<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>CONSTAN   | OCAL JURISDICTION. PROVIDE ALL LABOR ANI<br>TO MEET THE CURRENT ADOPTED CODES.<br>THE INSTALLATION ARE REQUIRED TO BE<br>RACTOR WITHIN 30 DAYS OF SUBSTANTIAL<br>OF AS-BUILT PLANS AND SPECIFICATIONS ARE<br>D MAINTENANCE MANUALS WITHIN 30 DAYS<br>ON OF ALL EQUIPMENT INSTALLED.<br>, PIPING, AND DUCTWORK SEISMICALLY BRAC<br>RECOMMENDATIONS, OR STANDARD<br>ES, WHICHEVER IS MORE STRINGENT.  | E<br>OF<br>ED<br>RCP<br>RPM<br>SA<br>SA<br>SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD   | REFLECTED CEILING PLAN<br>REVOLUTIONS PER MINUTE<br>SUPPLY AIR<br>SUPPLY AIR TEMPERATURE<br>SMOKE DAMPER                           | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324                      |        |
| RECORD DRAWINGS OF T<br>PROVIDED BY THE CONTR<br>COMPLETION. REDLINES<br>ACCEPTABLE.<br>PROVIDE OPERATION AND<br>SUBSTANTIAL COMPLETION<br>INSTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTIC<br>SYMBOL<br>SYMBOL<br>°F DEGREES<br>AC AIR CONI<br>ACH AIR CHAI<br>ACT ACOUSTI<br>ALT ALTERNA<br>APD AIR PRES<br>ASME AMERICA<br>BHP BRAKE HI<br>BMS BUILDING<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAI<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAI<br>DB DRY BUIL<br>DBA DECIBEL<br>EA EXHAUST<br>EAT ENTERIN<br>EER ENERGY   | THE INSTALLATION ARE REQUIRED TO BE<br>RACTOR WITHIN 30 DAYS OF SUBSTANTIAL<br>OF AS-BUILT PLANS AND SPECIFICATIONS ARE<br>D MAINTENANCE MANUALS WITHIN 30 DAYS<br>ON OF ALL EQUIPMENT INSTALLED.<br>, PIPING, AND DUCTWORK SEISMICALLY BRAC<br>RER RECOMMENDATIONS, OR STANDARD<br>TES, WHICHEVER IS MORE STRINGENT.   | ED RCP RPM SA SAT SD SENS SEER SF F/SD   | REFLECTED CEILING PLAN<br>REVOLUTIONS PER MINUTE<br>SUPPLY AIR<br>SUPPLY AIR TEMPERATURE<br>SMOKE DAMPER                           | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324                      | _      |
| ACCEPTABLE.<br>PROVIDE OPERATION ANI<br>SUBSTANTIAL COMPLETION<br>INSTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTIC<br>SYMBOL<br>°F DEGREES<br>AC AIR CONI<br>ACH AIR CHAR<br>ACT ACOUSTI<br>ALT ALTERNA<br>APD AIR PRES<br>ASME AMERICA<br>BHP BRAKE HI<br>BMS BUILDING<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>CFM CUBIC FE<br>CHAR CHARACT<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>CONSTAN<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>COP COEFFICE<br>CHAR CHARACT<br>CONSTAN<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CONSTAN<br>CFM CUBIC FE<br>CHAR CHARACT<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN<br>CONSTAN | D MAINTENANCE MANUALS WITHIN 30 DAYS<br>ON OF ALL EQUIPMENT INSTALLED.<br>, PIPING, AND DUCTWORK SEISMICALLY BRAC<br>RER RECOMMENDATIONS, OR STANDARD<br>SES, WHICHEVER IS MORE STRINGENT.  | OF<br>ED<br>RCP<br>RPM<br>SA<br>SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD  | REFLECTED CEILING PLAN<br>REVOLUTIONS PER MINUTE<br>SUPPLY AIR<br>SUPPLY AIR TEMPERATURE<br>SMOKE DAMPER                           | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324                      |        |
| SUBSTANTIAL COMPLETION<br>INSTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTICA<br>ACDISTRUCTION PRACTICA<br>SYMBOL<br>°F DEGREES<br>AC AIR CONIT<br>ACT ACOUSTI<br>ACT ACOUSTI<br>ALT ALTERNA<br>APD AIR PRES<br>ASME AMERICA<br>BHP BRAKE HI<br>BMS BUILDING<br>BTU BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAN<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICI<br>CV CONSTAN<br>DB DRY BULL<br>DBA DECIBEL<br>EA EXHAUST<br>EAT ENTERIN<br>EER ENERGY   | ON OF ALL EQUIPMENT INSTALLED.<br>, PIPING, AND DUCTWORK SEISMICALLY BRAC<br>RER RECOMMENDATIONS, OR STANDARD<br>SES, WHICHEVER IS MORE STRINGENT.  | ED<br>RCP<br>RPM<br>SA<br>SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD  | REFLECTED CEILING PLAN<br>REVOLUTIONS PER MINUTE<br>SUPPLY AIR<br>SUPPLY AIR TEMPERATURE<br>SMOKE DAMPER                           | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324                      | _      |
| NISTALL ALL EQUIPMENT,<br>PER CODE, MANUFACTUR<br>CONSTRUCTION PRACTICSYMBOLACSYMBOLImage: Stress of the stress of   | REVIATIONS, OR STANDARD<br>DESCRIPTION<br>DESCRIPTION<br>S FAHRENHEIT<br>DITIONING<br>NGES PER HOUR<br>ICAL CEILING TILE<br>IC LINING<br>ATIVE<br>SSURE DROP (INCHES W.G.)<br>AN SOCIETY OF MECHANICAL ENGINEERS<br>ORSEPOWER   | RCP<br>RPM<br>SA<br>SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD  | REFLECTED CEILING PLAN<br>REVOLUTIONS PER MINUTE<br>SUPPLY AIR<br>SUPPLY AIR TEMPERATURE<br>SMOKE DAMPER                           | 1 SOUTH 3rd STREET<br>SEA, OREGON 97324                      |        |
| SYMBOLSYMBOL°FDEGREESACAIR CONITACHAIR CHARACTACOUSTRALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HRBMSBUILDINGBTUBRITISH TCFMCUBIC FECHARCHARACTCOPCOEFFICECLARCONSTARDBDRY BULLDBDRY BULLDBDRY BULLEATENTERINEERENERGYENTEFFECTIVENTENTERINENTENTERIN  | REVIATIONS DESCRIPTION SFAHRENHEIT DITIONING NGES PER HOUR ICAL CEILING TILE IC LINING ATIVE SSURE DROP (INCHES W.G.) AN SOCIETY OF MECHANICAL ENGINEERS ORSEPOWER  | RCP<br>RPM<br>SA<br>SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD  | REFLECTED CEILING PLAN<br>REVOLUTIONS PER MINUTE<br>SUPPLY AIR<br>SUPPLY AIR TEMPERATURE<br>SMOKE DAMPER                           | 1 SOUTH 3rd STRE<br>SEA, OREGON 973                          |        |
| SYMBOL°FDEGREESACAIR CONACHAIR CHARACHAIR CHARACTACOUSTIALACOUSTIALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HBMSBUILDINGBTUBRITISH TCFMCUBIC FECHARCHARACCCOPCOEFFICHCVCONSTARDBDRY BULLDBDRY BULLDBDRY BULLEATENTERINEERENERGYEFFEFFECTIVENTENTERIN   | REVIATIONS DESCRIPTION SFAHRENHEIT DITIONING NGES PER HOUR ICAL CEILING TILE IC LINING ATIVE SSURE DROP (INCHES W.G.) AN SOCIETY OF MECHANICAL ENGINEERS ORSEPOWER  | RCP<br>RPM<br>SA<br>SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD  | REFLECTED CEILING PLAN REVOLUTIONS PER MINUTE SUPPLY AIR SUPPLY AIR TEMPERATURE SMOKE DAMPER                                       | 1 SOUTH 3ra<br>SEA, OREGOI                                   |        |
| SYMBOL°FDEGREESACAIR CONACHAIR CHARACTACOUSTRALACOUSTRALACOUSTRALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HRBMSBUILDINGBTUBRITISH TCFMCUBIC FECHARCHARACTCOPCOEFFICECVCONSTARDBDRY BULLDBDRY BULLDBDRY BULLEATENTERINEERENERGYEFFEFFECTIVENTENTERIN  | DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DITIONING NGES PER HOUR ICAL CEILING TILE IC LINING ATIVE SSURE DROP (INCHES W.G.) AN SOCIETY OF MECHANICAL ENGINEERS ORSEPOWER   | RPM<br>SA<br>SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD   | REVOLUTIONS PER MINUTE         SUPPLY AIR         SUPPLY AIR TEMPERATURE         SMOKE DAMPER                                      | 1 SOUT   |        |
| STRIBUL°FDEGREESACAIR CONACHAIR CHARACTACOUSTRALACOUSTRALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HRBMSBUILDINGBTUBRITISH TCFMCUBIC FECHARCHARACCCOPCOEFFICECLARCHARACCCOPCOEFFICECLARENTERINBASDECIBELEATENTERINEDBENTERINEFFEFFECTIVENTENTERINENTENTERIN   | S FAHRENHEIT<br>DITIONING<br>NGES PER HOUR<br>ICAL CEILING TILE<br>IC LINING<br>ATIVE<br>SSURE DROP (INCHES W.G.)<br>AN SOCIETY OF MECHANICAL ENGINEERS<br>ORSEPOWER  | SAT<br>SD<br>SENS<br>SEER<br>SF<br>F/SD  | SUPPLY AIR TEMPERATURE SMOKE DAMPER  | SE 1   |        |
| ACAIR CONACHAIR CHAIACTACOUSTIALACOUSTIALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HIBMSBUILDINGBTUBRITISH TCFMCUBIC FECHARCHARACCCOPCOEFFICHCVCONSTANDBDRY BULLDBDRY BULLEATENTERINEDBENTERINEFFEFFECTIVENTENTERINENTENTERIN   | DITIONING<br>NGES PER HOUR<br>ICAL CEILING TILE<br>IC LINING<br>ATIVE<br>SSURE DROP (INCHES W.G.)<br>AN SOCIETY OF MECHANICAL ENGINEERS<br>ORSEPOWER  | SD<br>SENS<br>SEER<br>SF<br>F/SD   | SMOKE DAMPER   | 30<br>AL   |        |
| ACHAIR CHAIACTACOUSTIALACOUSTIALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HIBMSBUILDINGBTUBRITISH TCFMCUBIC FECHARCHARACTCOPCOEFFICHCVCONSTANDBDRY BULLDBDRY BULLEATENTERINEDBENTERINEFFEFFECTIVENTENTERINENTENTERIN  | NGES PER HOUR<br>ICAL CEILING TILE<br>IC LINING<br>ATIVE<br>SSURE DROP (INCHES W.G.)<br>AN SOCIETY OF MECHANICAL ENGINEERS<br>ORSEPOWER   | SENS<br>SEER<br>SF<br>F/SD   |  |  |        |
| ALACOUSTIALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HIBMSBUILDINGBTUBRITISH TBTUHBRITISH TCFMCUBIC FECHARCHARACTCOPCOEFFICHCVCONSTANDDBDRY BULLDBDRY BULLEATENTERINEDBENTERINEFFEFFECTIVENTENTERINENTENTERIN   | IC LINING<br>ATIVE<br>SSURE DROP (INCHES W.G.)<br>AN SOCIETY OF MECHANICAL ENGINEERS<br>ORSEPOWER   | SF<br>F/SD   | SENSIBLE<br>SEASONAL ENERGY EFFICIENCY BATING  |  |        |
| ALTALTERNAAPDAIR PRESASMEAMERICABHPBRAKE HBMSBUILDINGBTUBRITISH TBTUHBRITISH TCFMCUBIC FECHARCHARACCCOPCOEFFICHCVCONSTANDBDRY BULLDBADECIBELEATENTERINEDBENTERINEFFEFFECTIVENTENTERINENTENTERIN  | ATIVE<br>SSURE DROP (INCHES W.G.)<br>AN SOCIETY OF MECHANICAL ENGINEERS<br>ORSEPOWER  | F/SD   | SQUARE FOOTAGE   |  |        |
| APD AIR PRES<br>ASME AMERICA<br>BHP BRAKE H<br>BMS BUILDING<br>BTU BRITISH T<br>BTUH BRITISH T<br>CFM CUBIC FE<br>CHAR CHARACT<br>COP COEFFICE<br>CV CONSTAN<br>DB DRY BULL<br>DBA DECIBEL<br>EA EXHAUST<br>EAT ENTERIN<br>EER ENERGY<br>EFF EFFECTIV  | AN SOCIETY OF MECHANICAL ENGINEERS ORSEPOWER  |  |  |  |        |
| BHPBRAKE HiBMSBUILDINGBTUBRITISH TBTUHBRITISH TCFMCUBIC FECHARCHARACTCOPCOEFFICHCVCONSTANDBDRY BULLDBDRY BULLEATENTERINEDBENTERINEFFEFFECTIVENTENTERINENTENTERIN   | ORSEPOWER   | SPE<br>SP  | STATIC PRESSURE EXTERNAL (INCHES W.G.)   |  |        |
| BMSBUILDINGBTUBRITISHBTUHBRITISHBTUHBRITISHCFMCUBIC FECHARCHARACTCOPCOEFFICHCVCONSTANDBDRY BULHDBADECIBELEATENTERINEDBENTERINEERENERGYEFFEFFECTIVENTENTERINENTENTERIN  |   | SQFT   | SQUARE FEET  |  |        |
| BTUBRITISH TBTUHBRITISH TCFMCUBIC FECHARCHARACTCOPCOEFFICHCVCONSTANDBDRY BULHDBADECIBELEATENTERINEDBENTERINEERENERGYEFFEFFECTIVENTENTERINENTENTERIN  |   | SS   | STAINLESS STEEL  |  |        |
| CFMCUBIC FECHARCHARACTCOPCOEFFICICVCONSTAIDBDRY BULLDBADECIBELEAEXHAUSTEATENTERINEDBENTERINEERENERGYEFFEFFECTIVENTENTERIN  | THERMAL UNITS   | S/T<br>SW  | SENSIBLE TO TOTAL COOLING RATIO  | BI A   |        |
| CHARCHARACTCOPCOEFFICICVCONSTANDBDRY BULLDBADECIBELEAEXHAUSTEATENTERINEDBENTERINEERENERGYEFFEFFECTIVENTENTERIN   | EET PER MINUTE  | TDH  | TOTAL DYNAMIC HEAD   | S SI   |        |
| COPCOEFFICICVCONSTANDBDRY BULHDBADECIBELEAEXHAUSTEATENTERINEDBENTERINEERENERGYEFFEFFECTIVENTENTERIN  |   | TEMP   | TEMPERATURE  |  |        |
| DBDRY BULLDBADECIBELEAEXHAUSTEATENTERINEDBENTERINEERENERGYEFFEFFECTIVENTENTERIN  | IENT OF PERFORMANCE   | THD  | TOTAL HARMONIC DISTORTION<br>TOTAL STATIC PRESSURE   | ŎĹ   |        |
| DBADECIBELEAEXHAUSTEATENTERINEDBENTERINEERENERGYEFFEFFECTINENTENTERIN  | В   | ТҮР  | TYPICAL  | OR   |        |
| EA EXHAUST<br>EAT ENTERIN<br>EDB ENTERIN<br>EER ENERGY<br>EFF EFFECTIV<br>ENT ENTERIN  |   | VFD  | VARIABLE FREQUENCY DRIVE   | SS O   |        |
| EDB ENTERIN<br>EER ENERGY<br>EFF EFFECTIV<br>ENT ENTERIN   | G AIR TEMPERATURE   | VTR<br>VS  | VENT THROUGH ROOF  | T A  |        |
| EER ENERGY<br>EFF EFFECTIV<br>ENT ENTERIN  | G DRY BULB  | WPD  | WATER PRESSURE DROP (FT HEAD)  | C S S  |        |
| EFF EFFECTIV<br>ENT ENTERIN  | EFFICIENCY RATIO  | WB   | WET BULB   |  |        |
|  | G   | WC<br>W.G.   | WATER COLUMN<br>WATER GAUGE  | 11 21  |        |
| ESP EXTERNA  | AL STATIC PRESSURE (INCHES W.G.)  |  |  |  |        |
| EVAP EVAPORA   | ATOR  | MECHANICA  | AL LEGEND  |  |        |
| EWB ENTERIN  | G WATER TEMPERATURE   | $\boxtimes$  | SUPPLY DUCT RISE/DROP  |  |        |
| (E) EXISTING   | 5   |  | SIDEWALL SUPPLY GRILLE   | s <b>t, İ</b>  | 7850   |
| FLA FULL LOA   |   |  |  | Cons<br>Laction  | OR 9   |
| FT FEET  |   |  |  |  | nde,   |
| GPM GALLONS  | S PER MINUTE  |  |  |  | aGra   |
| HP HORSEPO   |   | K S  | EXHAUST RISE/DROP  |  |        |
| HS HEAT SU   | PPLY  | XxX Ø  | SQUARE TO ROUND DUCT TRANSITION  | · 13/8   |        |
| HVAC HEATING   | 6, VENTILATION AND AIR CONDITIONING   | ◄∿   | EXHAUST GRILLE   |  |        |
| HSPF HEATING   | S SEASONAL PERFORMANCE FACTOR   | <u></u>  | BACKDRAFT DAMPER   |  | )      |
| KW KILOWAT   | ITS   | ANTAR  | DOUBLE WALL TURNING VANES  | 4  | /      |
| LB POUNDS  |   |  | FLEX DUCT  | · sci  |        |
| LAI LEAVING  |   |  | HIDDEN LINE  |  | -      |
| LWB LEAVING  | WET BULB  |  | 1,2,3, AND 4 WAY DIFFUSERS. RESPECTIVELY   | ECTU   |        |
| LWT LEAVING  |   |  |  | CHI  | сот    |
| MBH BTUH'S II  | N THOUSANDS   |  |  | AR<br>AG,<br>1709  | tects  |
| MC MECHAN  | IICAL CONTRACTOR  | <u>الخ</u>   |  | e Roc<br>ho 83   | Archi  |
| MCA MINIMU   |   |  | DEMOLISHED DUCT CAP  | erdal<br>, Idal  | tline, |
| MFR MANUFA   | ACTURER   |  | CEILING EXHAUST FAN  | Clove<br>Soise<br>3055                                       | raigh  |
| MOD MOTOR  | OPERATED DAMPER; MODULATING   |  | CABINET (INLINE) EXHAUST FAN   | outh<br>02 - 1<br>991.(<br>\$\$t.                            | w.Sti  |
| NC NOISE CF  | L GAS   | ① <sub>EQUIP</sub> #   | THERMOSTAT   | 208.<br>Scoth  | мм :,  |
| NIC NOT IN C   | CONTRACT  |  | RETURN GRILLE  | 4 S C H  | Ż      |
| NO. NUMBER   |   | F-HR   | # HOUR RATED FIRE DAMPER   | Date: 1-13-2022<br>Project: ALS-1821                         | 2      |
| OA OUTSIDE   | E AIR   | ц<br>Л   | BALL VALVE   | Version History: V1.0<br>PHASES (PH): 1c.11                  |        |
| OP OPERATI   | NG  |  | GAS PRESSURE REGULATOR   |  | _      |
| PG PROPYLE   |   |  |  | 155UE: 1-13-22   | _      |
| PRV PRESSUR  | RE REDUCING VALVE   |  |  | 98% FINAL COORD  |        |
| PSI POUNDS   | PER SQUARE INCH   | $\mathbf{U}$   |  | DRAWING NO.  |        |
| PSIG POUNDS  | PER SQUARE INCH GAUGE   |  |  |  |        |
| RAT RETURN   | AIR   |  |  |  |        |