

## **Chehalis Elders Center**

### **Addendum # 1**

June 15, 2021

#### **NOTICE TO ALL BIDDERS:**

Owner: The Chehalis Tribe  
P.O. Box 536  
Oakville, WA 98568

Project Manager: Bryan Sanders (360) 709-1813

Contact: ARC Architects  
Project Manager: Ariel Jamison (206) 322-3322

To All Bidders: Attention is called to the following items effective June 15, 2021, which shall be added to, deleted from, or changed from the BID DOCUMENTS dated April 16, 2021, thereby incorporating the addendum as part of the CONTRACT DOCUMENTS.

#### **A. GENERAL NOTES**

1. The bid opening is date is extended. Sealed bids for the new Elders Center on the Chehalis Reservation will be received at The Confederated Tribes of the Chehalis Reservation's Planning Department, 6 Niederman Rd Oakville, WA 98568 until **2pm on Friday June 25, 2021**, at which time the bids will be evaluated based on specific criteria provided in the Invitation to Bid. There will be no public bid opening for this project.
2. The deadline for any bidder questions or substitution requests shall be **5pm on Thursday June 17, 2021**.
3. Due to funding source stipulations, the project will be required to adhere to Washington State prevailing wage rates. The project does not need to comply with Davis-Bacon Act wage rate requirements.
4. A bidder has requested to receive a full list of general contractor plan holders. They are:
  - A. Pease Construction
  - B. Korsmo Construction
  - C. PNE Construction
  - D. Forma Construction
5. The project does not include requirements related to the "US Buy American Act".
6. Regarding start date, the Owner intends to make a selection quickly and proceed with contracting immediately thereafter. The Owner expects construction to begin by late July.
7. In the Invitation to Bid, Form B: Subcontractor list, it states that all firms that bid or quote should be included. To **CLARIFY**, the intention is that only the bidders whose bids you intend to use need to be listed (not every sub that submitted a bid to you).
8. Liquidated damages are not included as part of the contract documents for this project. As such, a construction schedule has not been published. Bidders need to provide their own schedule to complete the project as described in the bid documents.



9. Invitation to Bidders, Schedule of Values

- A. REPLACE** the Schedule of Values in its entirety with the attached, revised Schedule of Values. The line item, "Construction Contingency" has been removed and the alternates have been clarified.

**B. PROJECT MANUAL**

1. Section 11 01 40 – FALL RESTRAINT / FALL PROTECTION SYSTEMS

- A. REVISE** Item 1.7.A.1 to read "Design fall arrest anchor system to allow free movement of persons to access and service the solar panel array on the south facing roof while attached to full body harness, retractable life line, or vertical life line to catenary lines attached to D-ring or eye at each fall arrest anchor. Include quick release attachments". The intention is not to provide access to the entire roof.

2. Section 08 71 00 – DOOR HARDWARE

- A. REVISE** 'Hardware Set #3 – Exterior' from, "101B, 101C" to, "132A, 132B".

3. Section 08 71 00 – DOOR HARDWARE

- A. REVISE** 'Hardware Set #3A – Exterior – Card Access' from, "101D" to, "101B".

4. Section 08 71 00 – DOOR HARDWARE

- A. REVISE** 'Hardware Set #20 – Kitchen' from, "129C" to, "129A".

5. Section 08 71 00 – DOOR HARDWARE

- A. REVISE** 'Hardware Set #16 – Closet' from, "119A" to, "119A, 134A".

6. Section 093013 – CERAMIC TILING

- A.** Paragraph 2.3.A.1. **CHANGE** basis of design product description **FROM**, "Trek Anthrocite Wall Mosaic B 12"x24" to, "Trek Anthrocite Wall Mosaic B"
- B.** Paragraph 2.3.A.2. **CHANGE** Module Size **FROM**, "12"x24"" to, "Varies"
- C.** Paragraph 2.3.C.1. **CHANGE** basis of design product description **FROM**, "Trek Anthrocite Wall Mosaic B 12"x24"" to, "Trek Anthrocite Mosaic A 12"x24""

7. Section 08 41 13 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- A. CLARIFY** item 2.3.A.4 Finish: Anodized, Bronze. The intended finish of the system is anodized bronze including the basis of design manufacturer's standard warranty period for this finish. Item 2.10.A, which references a paint system, should be ignored.

8. Section 08 44 13 – GLAZED ALUMINUM CURTAIN WALLS



- A. CLARIFY** item 2.8 Aluminum Finishes: Anodized, Bronze. The intended finish of the system is anodized bronze including the basis of design manufacturer's standard warranty period for this finish. Any references to a paint system, should be ignored.
9. Section 06 10 00 – ROUGH CARPENTRY
- A. CLARIFY** item 1.4 LEED Submittals: Although FSC wood is discussed elsewhere in the project manual (01 35 00), it is not prescriptively required in specific sections. The contractor may choose to use any combination of responsible sourcing criteria to meet the MR Credit BPDO: Sourcing of Raw Materials: Responsible Sourcing of Raw Materials credit. The following all contribute: Extended Producer Responsibility, Bio-based Materials, Wood Products, Materials Reuse, Recycled Content, and Regional Material (indirectly). Because FSC wood comes at a premium, it may be an advantage to select certain wood materials (such as finish materials or doors) that are FSC to contribute to the 15-30% total value required to achieve the credit. To reiterate, the means and methods to achieve this credit are the responsibility of the contractor.
10. Section 27 15 00 – DATA/COMMUNICATIONS CABLING
- A. To CLARIFY**, Data and TV are rough in only. Refer to Detail 2, Sheet E6.2 for specific requirements.
11. Section 26 32 33 – EMERGENCY ENGINE GENERATOR
- D.** Item 2.2.Q.1: **CHANGE** 72 hour run time at full load to 48 hour run time at full load.  
**E.** Item 2.6: **DELETE** engine start monitor contacts specified in last sentence of this item.  
**F.** Item 2.7: **DELETE** in its entirety. Manual transfer switch is not required as system is not NEC 700.
11. Section 26 24 16 - PANELBOARDS
- A. To CLARIFY**, Part 2.1. Square D components are listed to establish a basis of design. All four manufacturers are acceptable.
12. Section 281300 – ACCESS CONTROL
- A. PROVIDE** Bosch 9512G system. System shall address both access control (281300) and intrusion detection (281600). Also allowed are similar and equal panels by other manufacturers subject to conformance with the contract documents. (Originally specified product is discontinued)
13. Section 28 16 00 – INTRUSION DETECTION
- A.** Bosch 9512G panel is acceptable as a replacement for the 9412 panel. Also allowed are similar and equal panels by other manufacturers subject to conformance with the contract documents. (Originally specified product is discontinued)
14. Section 282300 – VIDEO SURVEILLANCE
- QUESTION:** The specs call for video surveillance, but the drawings call for conduit & pull strings only. Please clarify. Please provide a spec/further info if a full system is to be installed.
- ANSWER:** Provide video surveillance system and devices (including CCTV cameras) per Section 282300. Provide conduit only to camera locations as per plans. Cat 6 cabling required to each camera shall be provided by Owner's low voltage vendor who will install Cat 6 cabling for data outlets and CCTV cameras.



15. Section 283111 – FIRE ALARM SYSTEM

**QUESTION:** The fire alarm spec calls for Fire-Lite. Will Gamewell & Potter systems be acceptable?

**ANSWER:** Yes

16. Section – LOW VOLTAGE SYSTEMS

**QUESTION:** There are specifications for all the low voltage systems except the Voice & Data System. The drawings show V/D locations but a note on sheet E6.2 says conduit pathway only. Could you please confirm that the project requires complete Paging, Access Control, Intrusion and CCTV systems but not a Voice and Data System?

**ANSWER:** Confirmed.

17. Section 230923 – DIRECT-DIGITAL CONTROL SYSTEM

- i. Delete paragraph 2.5-I.
- ii. Delete paragraph 2.5-J.

18. Section 238129 VARIABLE REFRIGERANT FLOW HVAC SYSTEMS

- i. Delete paragraph 2.4-B.
- ii. Add new paragraph 2.4-B Low Ambient Performance, to read:
  - 1. The outdoor units shall be capable of providing full rated cooling capacity at 23°F. Outdoor units not capable of this shall be provided with manufacturer's low ambient kit. Low ambient kits shall be ETL listed and labeled and shall be factory tested. Low ambient kit controllers shall be rated for outdoor installation and shall be capable of operating all required components automatically in all outdoor unit operation modes.

19. Division 230900 (HVAC Controls Scope)

**QUESTION:** Demand limiting is specified (Section 2.5, Paragraph I) – we want to confirm that this is indeed required.

**ANSWER:** This will not be required for the DDC system.

20. Division 230900 – HVAC CONTROLS SCOPE

**QUESTION:** Tenant billing log for local overrides is specified (Section 2.5, Paragraph J) – we want to confirm that this is indeed required for this project.

**ANSWER:** This will not be required for the DDC system.

21. Division 230900 – HVAC CONTROLS SCOPE, Section 2.12 Paragraph C, 1A

**QUESTION:** Can the propane submeter be purchased with a pulse transmitter device by the DIV 22 contractor rather than having the DIV 23 09 controls contractor buy one separately (as specified)?

**ANSWER:** This would be acceptable; however the bidding team (suppliers/contractors) would need to coordinate this to make sure that this scope is included in the GC's bid to the owner.

22. Division 230900 – HVAC CONTROLS SCOPE

**QUESTION:** Who is providing and installing the following sub meters, as mentioned in Section 2.12, Paragraph A2:

**A.** HVAC System Energy

- i. **ANSWER:** DDC contractor per spec 230923-2.12-B for electric meters, -C for propane gas meters

**B.** Water Energy



- i. **ANSWER:** Plumbing contractor, per spec 221119-2.10
  - C. Lighting Energy
    - i. **ANSWER:** DDC contractor per spec 230923-2.12-B
  - D. Plug Load Energy
    - i. **ANSWER:** DDC contractor per spec 230923-2.12-B
23. Division 230900 – HVAC CONTROLS SCOPE  
**QUESTION:** Who is responsible for providing and installing the lighting control panel mentioned under Section 2.16, Paragraph D (Electrical Systems)?  
  
**ANSWER:** Lighting control panel is provided by Division 26, under spec 260923.
24. Division 230900 – HVAC CONTROLS SCOPE  
**QUESTION:** Who is responsible for providing the water meters and irrigation deduct meter mentioned under Section 2.16, Paragraph C (Plumbing Systems)?  
  
**ANSWER:** Plumbing contractor, per spec 221119-2.10
25. Section 129300 - SITE FURNISHINGS  
  
**A. DELETE** Section 129300 in its entirety.
26. Section 123661 – SIMULATED STONE COUNTERTOPS, Paragraph 2.4.D.3.  
  
**A.** The basis of design products listed are quartz products. They have been discontinued. During the submittal process we will select a different quartz color/pattern from the basis-of-design manufacturer's (or other listed manufacturer's) standard line.
27. Section 123216 – MANUFACTURED PLASTIC-LAMINATE-FACED CASEWORK.  
**QUESTION:** Locks for casework are called out in specs. Have not found any locks called out on any of the casework. Are there to be any locks on any of the casework?  
  
**ANSWER:** For bidding purposes, assume locks on glass display case door and all upper cabinets.
28. Section 101100 – VISUAL DISPLAY UNITS.  
**QUESTION:** The specs call for tackboards. The only area we could locate is the bulletin board at the reception copy station. Please confirm this is the only tackboard.  
  
**ANSWER:** Confirmed.
29. Section 331100 – WATER DISTRIBUTION, Paragraph 2.5.B.  
**QUESTION:** Please clarify what type of communication output you require? The meter manufacturer isn't familiar with BACnet DDC and wants to confirm the type of output you need - either encoder output, pulse output or 4-20Mah output.  
  
**ANSWER:** The DDC system can work with any water meter that has either an electronic pulse output, 4-20mA output. There aren't really any specific BACNet water meters out that I'm aware of. For most water meter manufacturers (Badger, Sensus, Metron-Farnier, etc.), the electronic meter register is an add-on component or option available for their meter lines. The DDC contractor will need to provide a controller or converter to take that signal from the water meter and convert it into data that the DDC system can use.

## **B. SUBSTITUTIONS**



1. SECTION 087100 – DOOR HARDWARE
  - A. The proposed substitution ‘Automatic Door Solutions, Tormax 1301 Swing Door Operator’ shall be considered an approved **SUBSTITUTE** for the specified product, per the attached substitution request form.
2. SECTION 102113.17 – PHENOLIC-CORE TOILET PARTITIONS
  - A. The proposed substitution ‘ASI Global Partitions, Phenolic Toilet Partitions’ shall be considered an approved **SUBSTITUTE** for the specified product, per the attached substitution request form.
3. SECTION 102239 – FOLDING PANEL PARTITIONS
  - A. The proposed substitution ‘Moderco Operable Partitions Signature 800 Series, Model 841’ shall be considered an approved **SUBSTITUTE** for the specified product, per the attached substitution request form.
4. SECTION 263233 – EMERGENCY ENGINE GENERATOR
  - A. The proposed substitution ‘Generac Power Systems’ shall be considered an approved **SUBSTITUTE** for the specified generator and transfer switch, per the attached substitution request form.
5. SECTION 265100 – INTERIOR LIGHTING
  - A. The proposed lighting substitution package from ‘The Lighting Group’ shall be considered to contain approved **SUBSTITUTES** for the specified products, per the attached lighting substitution package.
6. SECTION 265100 – INTERIOR LIGHTING
  - A. The proposed lighting substitution package from ‘SeaTac Lighting’ shall be considered to contain approved **SUBSTITUTES** for the specified products, per the attached lighting substitution package.
7. PLUMBING SCHEDULES (Sheet P002, ITEM GI-1, Grease Interceptor)
  - A. The proposed substitution ‘Schier Products, Model GG1-1000’ shall be considered an approved **SUBSTITUTE** for the specified grease interceptor, per the attached substitution request form.

## **C. DRAWINGS**

1. Architectural Drawings
  - A. Interior Elevations Sheet A5.3, Details 16 and 17. **ADD** the following note, “ALL MEDICAL EQUIPMENT LISTED; INCLUDING OPHTHALMOSCOPE, OTOSCOPE, BP, CRASH CART, EXAM TABLE, POC GLUCOSE MACHINE, NEUBILIZER MACHINE, ASPIRATOR, MEDICATION OR DEVICES FOR ACLS, PALS, SHARPS HOLDER, AND GLOVE DISPENSER ARE TO BE FOIO”.
  - B. Floor Plan Sheet A2.1, Detail 1, Room 126. **ADD** the following note regarding the washer and dryer, “THE WASHER & DRYER SHALL BE FOIO”.
  - C. Finish Plan Sheet A10.1, Legend. **ADD** the following note, “AA = Anodized Aluminum”.
  - D. Elevation Sheets A3.1 and A3.2, Elevation Notes, Note 7. To **CLARIFY** the following note, “STOREFRONT AND CURTAINWALL ALUMINUM WINDOW SYSTEMS NOT INCLUDED IN WINDOW SCHEDULE. REFER TO ELEVATIONS”, site assembled window systems are not scheduled to allow for openings to be verified in field. For bidding purposes, window type, glass



type, relevant dimensions, and operability are indicated on the elevations.

- E. Elevation Sheet A3.3, Detail 1. **CLARIFY** the following note, "HEATED OVERHEAD CRAWL". This note is not meant to imply that floor framing & sheathing is required. All mechanical equipment should be accessible via access panels or other means.
- F. Sheet C201: **CHANGE** description of monument sign from, "MONUMENT SIGN, SEE ARCHITECTURAL PLANS" to, "MONUMENT SIGN, FOIO".
- G. Elevation Sheets A3.1 and A3.2, Elevation Notes. **ADD** the following note, "8. Glass sizes have been confirmed with basis-of-design window system manufacturer, if select sizes exceed the manufacturing capabilities of glass manufacturer, we will work with contractor to add mullions as necessary".
- H. Sheet A9.1, Detail 9.  
**QUESTION:** Supports for Countertop are they supposed to be fabricated to have exposed sides having Solid Surface material?  
  
**ANSWER:** The supports are fabricated from solid surface material per note on same detail.
- I. Sheet A2.2, Detail 1, Roof Plan.  
**QUESTION:** At the shaded region of roof for solar panels per alternate #1, could you please clarify whether we should provide an alternative metal roof numbers that will have penetrations included for the solar panels.  
  
**ANSWER:** The specified attachment method for the solar panel alternate is a clip method that attached to the standing seam ribs. See Section 012300, Paragraph 1.2.1.b.iv for more info.
- J. Sheet A3.2, Detail 5.  
**QUESTION:** Please verify that the scale on page A3.2 section 5 is 1/8" or 3/8".  
  
**ANSWER:** The scale is 3/8", as listed.
- K. Sheet A8.4, Various Details.  
**QUESTION:** Please verify the material and gauge size of "secondary trim" at wood siding per page A8.4, detail 2  
  
**ANSWER:** The 'secondary trim' is the same material as all other sheet metal flashing.
- L. Sheet A3.3 and A3.4, Typical Exterior Wall Assemblies.  
**QUESTION:** Please verify the spacing of the 1x4 PT wood furring at the sidings  
  
**ANSWER:** Wood furring is spaced at 16" o.c., u.n.o. They are not always 1x4 material however, refer to drawings.
- M. Sheet A2.1. **REPLACE** Sheet A2.1 in its entirety with the attached Sheet A2.1. Changes are bubbled.
- N. Sheet A3.1. **REPLACE** Sheet A3.1 in its entirety with the attached Sheet A3.1. Changes are bubbled.
- O. Sheet A3.2. **REPLACE** Sheet A3.2 in its entirety with the attached Sheet A3.2. Changes are bubbled.
- P. Sheet A3.4. **REPLACE** Sheet A3.4 in its entirety with the attached Sheet A3.4. Changes are bubbled.
- Q. Sheet A4.1. **REPLACE** Sheet A4.1 in its entirety with the attached Sheet A4.1. Changes are bubbled.



- R. Sheet A5.1. **REPLACE** Sheet A5.1 in its entirety with the attached Sheet A5.1. Changes are bubbled.
- S. Sheet A5.2. **REPLACE** Sheet A5.2 in its entirety with the attached Sheet A5.2. Changes are bubbled.
- T. Sheet A5.5. **REPLACE** Sheet A5.5 in its entirety with the attached Sheet A5.5. Changes are bubbled.
- U. Sheet A5.6. **REPLACE** Sheet A5.6 in its entirety with the attached Sheet A5.6. Changes are bubbled.
- V. Sheet A8.2. **REPLACE** Sheet A8.2 in its entirety with the attached Sheet A8.2. Changes are bubbled.
- W. Sheet A8.3. **REPLACE** Sheet A8.3 in its entirety with the attached Sheet A8.3. Changes are bubbled.
- X. Sheet A8.4. **REPLACE** Sheet A8.4 in its entirety with the attached Sheet A8.4. Changes are bubbled.
- Y. Sheet A8.5. **REPLACE** Sheet A8.5 in its entirety with the attached Sheet A8.5. Changes are bubbled.
- Z. Sheet A9.1. **REPLACE** Sheet A9.1 in its entirety with the attached Sheet A9.1. Changes are bubbled.
- AA. Sheet A9.4. **ADD** Sheet A9.4 to the set. Sheet A9.4 is a new sheet.
- BB. Sheet A9.5. **ADD** Sheet A9.5 to the set. Sheet A9.5 is a new sheet.
- CC. Sheet A10.1. **REPLACE** Sheet A10.1 in its entirety with the attached Sheet A10.1. Changes are bubbled.

## 2. Civil Drawings

- A. Sheet C301 and C302. As **SUPPLEMENTAL** information, the frame and cover for the concrete channel called out on the civil drawing sheets C301 and C302 shall be from the East Jordan Iron Works V-7500 trench cover and frame series or approved equal.

## 3. Landscape Drawings

- A. Sheet L2.01, General Note 1.1 and Irrigation Note 17 (same page). To **CLARIFY**, the intent of the irrigation is that the system is labeled as temporary to meet LEED requirements, but will not be removed.
- B. Sheet L5.03, Detail 1.  
**QUESTION:** There is a pet waste station shown on 1/L5.03. We could not locate this on the drawing. Will any of these be required on this project?  
  
**ANSWER:** The Pet Waste Station was deleted from the plan during VE efforts. Please disregard any references to it.
- C. Sheet L2.01.  
**QUESTION:** The plans call out for a 6" sch 80 Mainline. A 2" sch 40 mainline is more than adequate for this system.



**ANSWER:** You are correct. A 2" sch 40 mainline is sufficient.

D. Sheet L2.01.

**QUESTION:** 22 out of the 24 valves can be changed from 2" to 1" valves.

**ANSWER:** 1" drip valves are acceptable if they work with the final system. Contractor to verify the irrigation system based on tested static pressure at the site.

E. Sheet L2.01.

**QUESTION:** The valves are also to be latching solenoid that will not work with the specified controller, typical valves are needed.

**ANSWER:** Specified valves are specific to the drip system. The alternative would be to provide a controller that works with the latching solenoid.

F. Sheet L2.01.

**QUESTION:** In the sheet notes on sheet L2.01 under general notes Item #1 says Irrigation to be an in-ground temporary system to be turned off after two growing seasons (two years).

**ANSWER:** "This system is labeled as temporary to meet LEED but will not be removed." Temporary system to be turned off after one (1) year.

G. Sheet L2.10.

**QUESTION:** On page L2.10 it says static pressure is at 37 psi which will not run this system accurately, more pressure is needed a Booster pump would definitely be necessary.

**ANSWER:** Booster pump is anticipated; static pressure will need to be verified to confirm.

#### 4. Electrical Drawings

A. Sheet E1.0. The one-line diagram on E1.0 shows a CT cabinet. It is **CONFIRMED** that PSE will allow a CT cabinet for this size service.

B. Sheet E1.1.

**QUESTION:** Two electric vehicle charging stations are shown. Are these to be installed as part of this contract? If so, please provide a spec for these charging stations and clarify which panel they will be fed from.

**ANSWER:** Yes, install electric vehicle charging stations as part of this contract. Charging stations shall be ChargePoint CT4000 or equal. Pedestal mount, dual port, Level 2 charging stations. Feed charging stations from Main Dist. Panel. Provide 1.25"-3#4 & 1#8 GND to each. Provide 70/2 breaker for each.

C. Sheet E2.1.

**QUESTION:** Exit lights are shown on Sheet E2.1. No exit lights could be located in the fixture schedule. Please specify exit lighting to be provided.

**ANSWER:** Exit signs shall be Dual-Lite EVC series or equal. Combination LED exit sign and LED emergency lighting unit with battery backup. White face and green letters. Emergency lighting units shall be Dual-Lite EV Series or equal. LED emergency lighting unit with battery backup.

D. Sheet E1.1.

**QUESTION:** Please confirm where the PV disconnect will be located and the desired location of the conduit stub to the roof for the PV.

**ANSWER:** Locate PV disconnect adjacent to CT cabinet and meter. Conduit shall be stubbed to roof directly above electrical room.



- E. Sheet E1.1.  
**QUESTION:** Please confirm what size conduit is to be installed for the CCTV & video outlets shown on Drawing E1.1 Site Plan.  
  
**ANSWER:** Provide 1" conduit for each video outlet
- F. Sheet E1.1.  
**QUESTION:** Please confirm what size conduit is to be installed for the future lighting at the monument sign as shown on Drawing E1.1 Site Plan.  
  
**ANSWER:** Provide 1" conduit
- G. Sheet E1.1.  
**QUESTION:** On sheet E1.1 where am I to take the primary power and communications conduits, they just stop on the page and I am not seeing any continuations? Or, are we just stopping there and the vendor takes over? PSE usually provides primary conduit but we will need to figure trenching.  
  
**ANSWER:** Primary power routes to UG Vault #29 along Niederman Road per E1.1. Refer to civil plans and/or survey for vault location. Provide conduit from building to vault. PSE will provide primary conductors but not conduit. Refer to Detail 2, Sheet E6.2 for where communications conduits route to.
- H. Sheet E1.0, One Line Diagram.  
a. **ADD** "1000" to the copper feeder size chart defined as (3)3.5"-4#500 & 1#4/0 GND (or equivalent aluminum).  
b. **CHANGE** all occurrences of "1600" feeders to "1000" feeders on one line diagram.  
c. **CHANGE** Panel K breaker in Main Dist Panel to 100A. Change feeder to Panel K to "100".  
d. **CHANGE** breaker at generator feeding fire pump to 500 amp.  
e. **CHANGE** breaker at Main Dist Panel feeding fire pump to 500 amp.  
f. **ADD** 1.5" with controls circuitry as required by manufacturer between generator and ATS.  
g. **ADD** 1" conduit with circuitry as required by manufacturer between generator and Reception 102 for remote annunciator.
- I. Sheet E1.1, Electrical Site Plan.  
a. **ADD** two 120V circuits at generator. One for battery charger and one for coolant heater. Provide circuits from Panel A.
- J. Sheet E2.1. **ADD** emergency lighting units at the following locations:  
a. Restrooms 108, 109, 112, 116, 117 & 122  
b. Library 113  
c. North Hall  
d. Classroom 118  
e. Dining 121  
f. Elec 128  
g. Kitchen 129  
h. West Hall 132
- K. Sheet E6.1, Main Distribution Panel Schedule.  
a. To **CLARIFY**, main breaker shall be 1000 amps, bus shall be 1200 amps (to facilitate future PV)  
b. To **CLARIFY**, locate breaker for PV system at opposite end of bus from main breaker  
c. **RELOCATE** breakers for WH-1, OU-2, OU-3, DH-1, and ST-1 from Panel A to Main Distribution Panel  
d. **CHANGE** breaker for ST-1 to 80/2  
e. **CHANGE** breaker for Panel K to 100 amp



- f. **CHANGE** breaker feeding fire pump to 500 amp
- L. Sheet E6.1, Panel K Schedule.
  - a. **CHANGE** panel to 100 amp.
- M. Sheet E6.2, Pump System Power Diagram.
  - a. **ADD** note reading, "Control Panel will be furnished as part of the pump system. Electrical contractor to install within freestanding enclosure. All other components of the diagram include freestanding enclosure, fused disconnect and circuitry shall be provided by electrical contractor".

**D. ATTACHMENTS**

1. Geotechnical Report prepared by Pacific Testing & Inspections Inc and dated April 9, 2021
2. A CAD file of the Survey prepared by Sound Surveyors Inc and dated November 22, 2014
3. A CAD file of the Civil Grading Plan prepared by KPFF Engineers and dated April 16, 2021
4. Updated Schedule of Values Bid Form
5. Drawing Sheet A2.1
6. Drawing Sheet A3.1
7. Drawing Sheet A3.2
8. Drawing Sheet A3.4
9. Drawing Sheet A4.1
10. Drawing Sheet A5.1
11. Drawing Sheet A5.2
12. Drawing Sheet A5.5
13. Drawing Sheet A5.6
14. Drawing Sheet A8.2
15. Drawing Sheet A8.3
16. Drawing Sheet A8.4
17. Drawing Sheet A8.5
18. Drawing Sheet A9.1
19. Drawing Sheet A9.4
20. Drawing Sheet A9.5
21. Drawing Sheet A10.1
22. Substitution Forms as listed above.

END OF ADDENDUM #1



**Geotechnical Report**  
**Chehalis Elders Center**  
**Neiderman Road**  
**Oakville, Washington 98568**

Prepared For:

Confederated Tribes of the Chehalis Reservation  
PO Box 536  
Oakville, Washington 98568

Prepared By:

**Pacific Testing & Inspection Inc.**

3215 Harrison Avenue, Centralia, WA 98531

Phone (360) 736-3922 Fax (360) 807-6002

[www.ptiinc.net](http://www.ptiinc.net)



4/9/21

**April 9, 2021**

**PTI Project # 200071**



## TABLE OF CONTENTS

<b>1.0 INTRODUCTION.....</b>	<b>1</b>
<b>2.0 SUBSURFACE INVESTIGATION.....</b>	<b>2</b>
<b>3.0 ENGINEERING CONCLUSIONS.....</b>	<b>4</b>
<b>4.0 LIMITATIONS .....</b>	<b>13</b>

Appendix A – Test Pit Location Plan	
Appendix B – Test Pit Logs	
Appendix C – Sieve Analysis Results	
Appendix D – CEC Results	
Appendix E – Foundation Perimeter Drain	
Appendix F – Pavement Nomograph	



## 1.0 INTRODUCTION

Pacific Testing & Inspection, Inc. (PTI) has completed this geotechnical study in support of the Chehalis Elders Center located on Neiderman Road in Oakville, Washington.

An initial geotechnical evaluation of the project was conducted by PTI on September 3, 2020. During this site visit, surface and subsurface conditions were assessed. After completion of the field work and subsequent laboratory work, PTI prepared this geotechnical report in order to support the proposed development.

As presented herein, this report includes information pertaining to the project in this Introduction Section; field methods and soil descriptions in the Subsurface Investigation Section; and, supporting documentation for the project in the Engineering Conclusions and Recommendations Section.

The purpose of this geotechnical investigation is to minimally address soil parameters for the development of commercial facilities. In order to fulfill the purpose of investigation, the geotechnical program completed for the proposed improvements of the project include:

- Review project information provided by the proponent of the project;
- Conduct a site visit to document the site conditions that may influence the construction and performance of the proposed improvements of the project;
- Define general subsurface conditions of the site by observing subsoils within test pits, review geological and other soil mapping for the general area, research published references where applicable, and review any other pertinent documents near the project;
- Collect bulk samples as necessary, at various depths and locations;
- Perform laboratory testing to determine selected index and/or engineering properties of the site soils;
- Complete an engineering analysis based on the subsurface conditions that were identified by the field investigation, soil testing, and applicable project research; and,
- Establish conclusions based on our findings.



## 2.0 SUBSURFACE INVESTIGATION

Information on subsurface conditions pertaining to the project was primarily gathered on September 3, 2020 by a representative with PTI.

Information on subsurface conditions for the project was accomplished by examining soils within 3 test pits extending to depths of up to 10 feet below the existing ground surface. See Appendix A of this report which includes our test pit logs.

Soil samples were obtained from this project and utilized for laboratory testing. The following subsurface conditions are estimated descriptions of the project subgrade utilizing information from the depth of penetration at all testing, sampling, observed and investigated locations. Soils for this project were primarily described utilizing the Unified Soil Classification System (USCS) and the Soil Conservation Service (SCS) descriptions.

Within test pit locations, soils within the upper 10 feet were generally observed to be mostly poorly graded sand and gravel (GP and SP). Groundwater or indications of seasonal groundwater were not observed within any of our test pits.

The parent material is a glacial outwash, and a restrictive layer was not encountered within any of our test pits. According to the "Soil Survey of Grays Harbor County," by the United States Department of Agriculture, Soil Conservation Service, the site soils are described as Grand Mound gravelly sandy loam, 3203. The soil designations are depicted in the aerial photograph below, and descriptions are provided in Appendix B of this report.



*Soil Map from USDA Web Soil Survey*



Visual classifications were performed in the field in accordance with the American Standards for Testing and Materials (ASTM) D2488. Laboratory testing was performed in order to further classify soils at selected locations and depths.

The soil samples obtained at the project site during the field investigation were preserved and transported for laboratory testing. The following soil tests were performed in accordance with the American Standards for Testing and Materials (ASTM):

- 6 Particle Size Analyses (ASTM D422); and,
- 6 Moisture Contents (ASTM D2216).

The results from the sieve analysis, performed by PTI, are provided in Appendix B of this report. The moisture content tests are shown on our soil logs in Appendix A.



### 3.0 ENGINEERING CONCLUSIONS & RECOMMENDATIONS

The following conclusions and recommendations include parameters for foundations, earthwork, seismic, retaining walls, drainage, and pavement.

#### Foundations

Recommendations provided in this section account for the site development of a typical commercial facility. The recommended allowable bearing capacities and settlements as presented below, consider the probable type of construction as well as the field investigation results by implementing practical engineering judgment within published engineering standards. Evaluations include classifying site soils based on observed field conditions and soil testing for this project. After deriving conservative relative densities, unit weights and angles of internal friction of the in-situ soils, the Terzhagi ultimate bearing capacity equation was utilized for determining foundation width and depth. Foundation parameters provided herein account for typical structural pressures due to the planned type of development. A structural analysis is beyond the scope of a geotechnical report, and a structural engineer may be required to design specific foundations and other structural elements based on the soil investigation.

Stepped foundations are acceptable, if warranted for this project. Continuous, isolated, or stepped foundations shall be horizontally level between the bottom of the foundation and the top of the bearing strata. The frost penetration depth is not expected to extend beyond 12 inches below the ground surface for this project under normal circumstances and anticipated design features.

A modulus of subgrade reaction of no more than 250 pci should be used for the foundation system. Friction between the bottom of the foundation and soil may be utilized to resist lateral loads. A coefficient of friction of 0.5 may be used for this application, and should account for the vertical dead loads only. Static bearing pressures may be increased by one-third (1/3) for short-term duration wind or seismic loads.

Existing in-situ soils for this project indicates that the structure can be established on shallow, continuous or isolated footings. Foundations shall be established on relatively undisturbed native soil that is competent and unyielding. Alternatively, foundations may be constructed on selective re-compacted native soil or compacted engineered fill as described in the Earthwork Construction Recommendations Section of this report.

For a bearing capacity requirement of no more than 3000 psf, a minimum continuous footing width of 15 inches shall be placed at a minimum of 18 inches below the existing ground surface atop prepared subgrade and unyielding soils. For a columnar load of no more than 6 tons, a circular or square isolated foundation diameter or width shall be at least 30 inches. For a columnar load of no more than 10 tons, a circular or square isolated foundation diameter or width shall be at least 40 inches.

All recommended allowable bearing capacities have a factor of safety of at least 3. Foundation recommendations are made available based on adherence to the remaining recommendations that are provided in this report. Alterations to the aforementioned foundation recommendations may



be completed upon a site inspection by a geotechnical engineer after the foundation excavation is completed.

### Settlement

Total and differential settlement that a structure will undergo depends primarily on the subsurface conditions, type of structure, amount and duration of pressure exerted by the structure, reduction of pore water pressure, and in some instances, the infiltration of free moisture. Based on the expected native soil conditions, anticipated development, and construction abides by the recommendations in this report, the assumed foundation system may undergo a maximum of 1.0 inch total settlement, and a maximum differential settlement of 0.75 inch.

### Concrete Slabs-on-Grade

Structural concrete slabs (i.e. slabs that receive a structural design load), should be supported on a minimum of 4 inches of compacted coarse, granular material as provided in the Earthwork Recommendations Section of this report or undisturbed, clean native soils that are placed over prepared, relatively undisturbed, native subgrade stripped of organics or engineered fill. Both in-situ granular soils and fill material are considered both a capillary break and structural support since the material is extremely porous and the finish floor elevation is expected to be raised above the surrounding, adjacent grades. Any fill material used beneath structural concrete slabs shall follow both the material and compaction requirements provided in the Earthwork Recommendations Section of this report. Alternative materials may be provided to PTI for analysis. A modulus of subgrade reaction of no more than 250 pci should be used for a structural slab.

Non-structural slabs-on-grade (i.e. slabs that do not receive structural design loads) may be placed directly on prepared subgrade per the geotechnical design, unless not allowed per code. See the Earthwork Recommendations Section below for earthwork details pertaining to both structural and non-structural concrete slabs-on-grade.

The recommendations for interior concrete slabs-on-grade as presented herein are only relevant for the geotechnical application of this project. Although beyond the scope of this report, concrete slabs should also be designed for structural integrity and environmental reliability. This includes vapor barriers or moisture control for mitigating excessive moisture in the building.

### Earthwork Recommendations

Founding material for building foundations shall consist of undisturbed, unyielding native soils to the specified foundation depths. Compacted engineered fill, or selective re-compacted native soils may be used to the extents provided in this Earthwork Construction Recommendations Section. The following recommendations include excavations, subgrade preparation, type of fill, and placement of fill for building foundations.



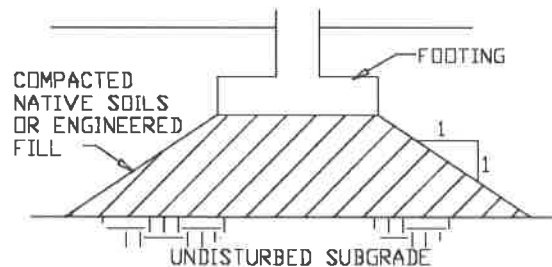
## Excavation

Excavation is recommended to remove organic laden topsoil, excessive organic content or other deleterious material, if present, beneath foundations and all concrete slabs-on-grade (structural and non-structural), and to achieve appropriate foundation depth for foundations. Additional sub-excavation will be required for this project if the soils below slabs or the required foundation depth are loose, saturated, not as described in this report, or otherwise incompetent due to inappropriate land disturbing, or excessive water trapped within foundation excavations prior to foundation construction. All soils below the bottom of the excavation shall be competent, and relatively undisturbed or properly compacted fill. If these soils are disturbed or deemed incompetent, re-compaction of these soils below the anticipated footing depth is necessary. Excavations shall be completely dewatered, compacted, and suitable before placement of additional native soil, engineered fill or structural concrete. Subgrades shall be prepared for ensuing structural fill, foundations and both structural/ non-structural slabs by stripping topsoil and excessive organics, and proof rolling with a steel drum roller or a hand-held jumping jack.

## Engineered Fill

For engineered fill or disturbed native soils that will be utilized as fill material directly beneath foundations and structural slabs-on-grade, observation and/ or geotechnical testing is required prior to foundation construction. Native soils used as engineered fill shall be the soils below the upper organic laden topsoil per the requirements provided in this section. The following placement and compaction requirements are necessary.

For disturbed native soils or engineered fill beneath foundations, limits of compacted or re-compacted fill shall extend laterally from the bottom edge of the foundation at a rate of one horizontal foot for each foot of compacted or re-compacted fill depth beneath the foundation. See the illustration below.



Both engineered fill and native soils used as compacted fill should be free of roots and other organics, rocks over 6 inches in size, or any other deleterious matter. If import material is utilized as structural fill material for placement in building pad areas, we recommend that it meets the current Washington State Department of Transportation Standard Specification for Road, Bridge and Municipal Construction (WSDOT), Section 9-03(14), for Gravel Borrow. The material should be placed per the recommendation in section 2-06 of WSDOT for sub-grade. For structural concrete slab-on-grades, the 4-inch minimum capillary/ structural supporting material should have the following gradation and qualities:



100% passing the ¾ - inch sieve  
< 10% passing the #200 sieve  
Fine materials (passing #200) is non-plastic

All structural supporting fill material should be placed in 12 inch maximum vertical lifts and compacted with a vibratory smooth drum roller to achieve 95% of the (ASTM D1557) modified proctor. Each lift surface should be adequately maintained during construction in order to achieve acceptable compaction and inter-lift bonding. Alternative materials may be imported for this project and used for foundation support per the geotechnical engineer.

Temporary and permanent earth cuts and temporary fill slopes exceeding 4 feet in height should be limited to a slope of 2:1 (horizontal:vertical). Utility trenches or other confined excavations exceeding 4 feet should conform to OSHA safety regulations. Permanent cut and fill slopes shall be limited to a slope of 2:1, unless otherwise approved by an engineer.

### **Seismic**

The nearest Class 'A' or Class 'B' fault to this property is the Olympia Structure, and is over 20 miles from the parcel. This information is based on the USGS Quaternary Fault and Fold Database for the United States with the following description:

**Fault Name:**Olympia structure (class B)

**Fault System:**Olympia structure (class B)

**Geologic Age (Years):**unknown

**Geologic Age Description:**insufficient data to determine age (class B)

**Fault Detection Method:**geophysical lineament

**Fault Visibility:**inferred fault trace

**Slip Rate (mm per year):**--

**Fault Description:**fault

**USGS Fault ID:**--

**Fault Source URL:**--

**Fault Source Citation:**Brocher, Thomas M.; Parsons, Tom E.; Blakely, Richard J.; Christensen, Nikolas I.; Fisher, Michael A.; Wells, Ray E.; SHIPS Working Group, 2001, Upper crustal structure in Puget Lowland, Washington--Results from the 1998 Seismic Hazards Investigations in Puget Sound: Journal of Geophysical Research, v. 106, no. B7, p. 13,541-13,564.

Soils immediately below the expected foundation depth for this project are generally Type C, corresponding to the International Building Code (IBC) soil profiles. According to the IBC, the regional seismic zone is 3 for this project, corresponding to an estimated peak ground acceleration of 0.33g. This estimation is based on the United States Geological Survey (USGS) National Seismic Hazard project in which there is an estimated 2% probability of exceedance within the next 50 years. See the Foundation Section of this report for additional information on short-term seismic (and wind) loading. The following seismic design parameters may be used per the static force procedure outlined in the prevailing IBC:



- Spectral Response Acceleration at Short Periods (Ss) = 1.06
- Spectral Response Acceleration at 1-sec. Periods (S1) = 0.42
- Site Coefficient (Fa) = 1.00
- Site Coefficient (Fv) = 1.38

Based on observed and known subsurface conditions in the area, the potential for liquefaction is believed to be moderate for this project. According to the Interactive Geological Map of Washington, liquefaction hazards are moderate to high within the vicinity of the property. The nearest well report that we found is about 0.5 miles due south of the project, and indicates a 6-foot layer of hardpan beginning at a depth of 11 feet overlying gravel. Based on this and our shallow test pits, settlement due to liquefaction is negligible. However, geotechnical borings of at least 50 feet on the property would be required in order to accurately estimate settlement due to liquefaction.

### **Retaining Walls**

Retaining walls may be utilized for this project. The lateral earth pressures exerted through the backfill of a retaining wall are dependent upon several factors including height of retained soil behind the wall, type of soil that is retained, degree of backfill compaction, slope of backfill, surcharges, hydrostatic pressures, earthquake pressures, and the direction and distance that the top of the wall moves. A structural or geotechnical professional should design retaining walls based on specific conditions.

Soil parameters for the structural design of retaining walls may be estimated as 134 pounds per cubic foot (pcf) and 130 pcf for engineered fill and native soils, respectively. Gravel backfill for walls per WSDOT standard specifications 9-03.12(2) may also be used, and should use the parameters for Engineered Fill Soils as provided herein. The angle of internal friction may be estimated as 36 degrees and 35 degrees for engineered fill and native soils, respectively. These soil parameters are based on soil type and placement conforming to the Earthwork Construction Recommendations Section in this report.

An equivalent fluid unit weight used for structural design may be estimated as the product of the backfill soil unit weight and the earth pressure coefficient for at-rest and active pressures. Retaining walls should be designed to resist a lateral earth pressure based on an equivalent fluid unit weight of the following:

	<u>At-Rest</u>	<u>Active</u>
Native Soils	55.9 pcf	35.1 pcf
Engineered Fill Soils	54.9 pcf	34.8 pcf

The values provided above shall be increased by 1 pcf for every 1 degree of backfill/ natural slope angle.



Backfill may consist of engineered fill, as presented in this report, or borrow material approved by a geotechnical engineer. Compaction of these materials shall be achieved in compacted lifts of about 12 inches. Each lift should be uniformly compacted to at least 85%, and no more than 90% of the modified Proctor maximum dry density (ASTM D 1557). If pavement or building loads are planned to be located within retaining wall backfill, then 90% compaction is required. In addition, heavy construction equipment should be at a distance of at least ½ the wall height. Over-compaction and limiting heavy construction equipment should be prevented to minimize the risk of excess lateral earth pressure on the retaining structure. PTI recommends that retaining wall backfill is compacted with light equipment such as a hand-held power tamper. If clean, coarse gravel soils are utilized as engineered fill, and surcharges will not influence the retaining wall, compaction may be achieved by reasonably densifying granular soils with construction equipment.

### **Drainage**

Positive drainage should be provided in the final design for all planned buildings. Drainage shall include sloping the ground surface, driveways and sidewalks away from the project structures. All constructed surface and subsurface drains should be adequately maintained during the life of the structure. If drainage problems occur during or after construction, additional engineered water mitigation will be required immediately. This may include a combination of swales, berms, drain pipes, infiltration facilities, or outlet protection in order to divert water away from the structures to an appropriate protected discharge area. Leakage of water pipes, both drainage and supply lines, shall be prevented at all times.

Subsurface water intercepted in the footing perimeter drains, and stormwater collected from roof drains shall be separately tight-lined to drainage facilities to a location at least 15 feet downslope of the structure. Roof and foundation drains may share a tightline if an above ground drainage outlet is allowable and a backflow preventer is installed within the pipe system in order to prevent roof water from entering the foundation area. Due to the non-critical nature of this project where the groundwater is low and the subgrade exhibits high permeability, the example foundation perimeter drain shown in Appendix E of this report may be used for this project or any drainage standard per the civil/ drainage engineer may be used.

Infiltration facilities are feasible for this project. The drainage engineer shall review the soil/ groundwater depths provided in this report for adequately determining facility depth. For existing in-situ soils, an infiltration rate may be used as calculated below.

Infiltration rates are based on the Soil Grain Size Analysis Method as outlined in the 2012 Stormwater Management Manual for Western Washington. Based on soil characteristics and the aforesaid drainage manual, infiltration was determined to be the following:

$$\text{Log}_{10}(K_{\text{sat}}) = -1.57 + 1.90D_{10} + 0.015D_{60} - 0.013D_{90} - 2.08f_{\text{fines}}$$

$K_{\text{sat}}$  = saturated hydraulic conductivity, cm/sec

$D_{10}$  = soil sample 10% finer by weight, mm

$D_{60}$  = soil sample 60% finer by weight, mm

$D_{90}$  = soil sample 90% finer by weight, mm

$f_{\text{fines}}$  = soil fraction passing #200 sieve, by weight, mm



$$\text{Log}_{10}(K_{\text{sat}}) = -1.57 + 1.90(0.40) + 0.015(16.00) - 0.013(35.00) - 2.08(0.03) = -1.0874$$

- $K_{\text{sat}} = 10^{-1.0874} = 0.08177113 \text{ cm/sec} = 115.90 \text{ in/hr}$

$$K_{\text{sat design}} = K_{\text{sat}} \times CF_T$$

$$CF_T = CF_V \times CF_t \times CF_m$$

$$K_{\text{sat}} = 115.90 \text{ in/hr}$$

$$CF_V = 1.0 \quad (0.33 \text{ to } 1.0) \text{ site variability and number of test locations}$$

$$CF_t = 0.4 \quad (0.4) \text{ grain size test method}$$

$$CF_m = 0.9 \quad (0.9) \text{ degree of influent control}$$

$$K_{\text{sat design}} = 41.7 \text{ in/hr}$$

PTI concludes that the soils support a design infiltration rate of 41.7 in/hr. However, we recommend that the drainage engineer reduces this value, if necessary, per the limitations in the prevailing drainage manual.

Water quality for this project may be achieved by the soil subgrade beneath proposed water storage areas. The Cation-Exchange Capacity (CEC) of the soils were tested by Libby Environmental, and determined to be the following:

- 7.14 meq/100g

### Pavement Analysis

The pavement section design analysis was completed using AASHTO's Guide for Design of Pavement Structures. The AASHTO procedure utilizes a Structural Number (SN) which is used to determine thicknesses of pavement structural sections based on their corresponding structural coefficients. The structural number is determined from a nomograph (Appendix F) utilizing Equivalent Single-Axle Loads (ESALs), Reliability (R%), Serviceability Loss ( $\Delta$ PSI), Standard Deviation ( $S_o$ ), and Soil Resilient Modulus ( $M_R$ ) of the subgrade soil. ESALs were determined by assuming an ADT. This should be confirmed by the owner, and if PTI's assumptions are significantly different, we should be contacted to revise our recommendations.

$$\text{ESALs} = (\text{ADT})(365 \text{ days/yr})(N)(DDF)(DLDF)(GR)(PT)(TF)$$

$$\begin{aligned} \text{ADT} &= 2\text{-way Average Daily Traffic Count} \\ &= 300 \text{ (assumed)} \end{aligned}$$

$$\begin{aligned} N &= \text{Pavement Design Life} \\ &= 20 \text{ years} \end{aligned}$$

$$\begin{aligned} \text{DDF} &= \text{Direction Distribution Factor} \\ &= 50\% \text{ (50-50 split each direction)} \end{aligned}$$

$$\begin{aligned} \text{DLDF} &= \text{Design Lane Distribution Factor} \\ &= 100\% \text{ (one lane in one direction)} \end{aligned}$$



GR = Growth Rate  
= 0%  
PT = Percent Trucks  
= 5%  
TF = Truck Factor  
= 1.7 (common default value)

$$\text{ESALs} = (300)(365)(20)(0.5)(1.0)(.05)(1.7) = 93,075$$

R% = 80% (Reliability value for local access)  
 $\Delta\text{PSI}$  = 2.0 (Serviceability Loss for local access)  
 $S_o$  = 0.45 (Standard Deviation)  
 $M_R$  =  $1155 + 555(R \text{ Value}) = 1155 + 555(.55) = 31,680 \text{ psf}$   
 where R-Value is interpolated from soil results

The flexible pavement nomograph presented in the AASHTO Guide, was used to calculate the structural number of 1.6. In conjunction with known or assumed pavement layer depths ( $d_i$ , etc...), typical published structural coefficients ( $a_i$ , etc...), and drainage coefficients ( $m_i$ , etc...), as needed, the following formula was used to determine the pavement structural section.

$$\text{SN} \leq a_1 d_1 + a_2 d_2 m_2 + \dots + a_i d_i m_i + \dots$$

$$1.6 \leq (0.42 \times 2 \text{ in}) + (0.14 \times 2 \text{ in}) + (0.14 \times 4.0 \text{ in})$$

where  $a = 0.42$  for asphalt concrete (class B)  
 $a = 0.14$  for CSTS  
 $a = 0.14$  for CSBC

Based on the result of the analysis provided above, PTI recommends that the following pavement elements be utilized at a minimum:

#### Flexible Pavement

Asphalt concrete	: 2.0 inches
CSTC	: 2.0 inches
CSBC	: 4.0 inches

#### Heavy Duty Flexible Pavement

Asphalt concrete	: 3.5 inches
CSTC	: 2.0 inches
CSBC	: 6.0 inches

#### Heavy Duty Rigid Pavement

PC concrete	: 6.0 inches
CSTC/BC	: 4.0 inches



Portland Cement Concrete in rigid pavements should have a 28-day compressive strength of 4000 psi. Appropriate concrete joints at 20 feet apart with transfer mechanisms should be included.

PTI recommends construction to occur during the dry season (May 1<sup>st</sup> to October 31<sup>st</sup>) if at all possible. The upper organic laden soils should be removed beneath proposed roadway sections to a depth so that the necessary fill and/ or pavement structural section is to the desired grade. Upon excavation, the native subgrade should be proof rolled with a 60K steel drum roller to a firm, unyielding condition. If necessary, engineered fill soils should be placed and compacted in order to achieve proper grade. Engineered fill soils should be approved by the geotechnical engineer, and compacted to at least 95% of the modified Proctor.

Upon satisfactory completion of the subgrade preparation and necessary fill, the overlying 4.0 inches Crushed Surfacing Base Course (CSBC), 2.0 inches of Crushed Surfacing Top Course (CSTC) and 2.0 inches asphalt concrete layers may be constructed. New CSB/TC should meet the requirements of Class B foundation material from the Washington State Department of Transportation Standard Specifications for Road, Bridge and Municipal Construction. Furthermore, the base materials shall be compacted per the (ASTM D1557) modified Proctor. Each lift surface throughout the project should be adequately maintained during construction in order to achieve acceptable compaction and inter-lift bonding.



#### 4.0 LIMITATIONS

Due to the inherent natural variations of the soil stratification and the nature of geotechnical subsurface explorations, there is always a possibility that soil conditions encountered during construction are different than those described in this report. Therefore, it is recommended that a qualified engineer observes and documents the construction, or PTI is promptly notified if project and subsurface conditions found on-site are not as presented in this report so that we can re-evaluate our recommendations.

This report presents engineering design guidelines, and is intended only for the owner, or owners' representative, and location of project described herein. This report should not be used to dictate construction procedures or relieve the contractor of his responsibility.

Please contact PTI if you have any questions, comments, or require additional information.

Sincerely,  
Pacific Testing & Inspection, Inc.



Michael Staten, P.E.  
Engineer



**APPENDIX A**  
**TEST PIT LOCATION PLAN**





SCALE: 1 INCH = 300 FEET



PROJECT & LOCATION

CHEHALIS ELDERS CENTER

NIEDERMAN ROAD  
DAKVILLE, WASHINGTON

ENGINEER

PACIFIC TESTING & INSPECTION, INC  
3215 HARRISON AVENUE  
CENTRALIA, WASHINGTON 98531  
360-736-3922

TEST PIT LOCATION PLAN



**APPENDIX B**  
**TEST PIT LOGS**



# Pacific Testing & Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531

Phone (360) 736-3922 Fax (360) 807-6002

## LOG OF TEST PIT

<b>Project No.:</b> 200071	<b>Project Name:</b> Chehalis Elders Center	<b>Client:</b> Chehalis Tribe	<b>Date:</b> 9/3/2020
-------------------------------	--	----------------------------------	--------------------------

<b>Test Pit No.:</b> 1	<b>Location:</b> North Center	<b>Diameter:</b>	
---------------------------	----------------------------------	------------------	--

<b>Logged By:</b> TB	<b>Depth of Water:</b> None	<b>Date Checked:</b> 9/3/2020	<b>Depth of Caving:</b>
-------------------------	--------------------------------	----------------------------------	-------------------------

Elev. Or Depth	Lab #	USCS	Description	Remarks	Moisture (%)
6"-8"		Ol	Forest duff		
1'		Sp-Gp	Medium Brown, silty fine to coarse sand w/ gravels and some cobble	Dry, loose, <1', <30%, rounded	
1.5'		Gp	Medium Brown gravel w/ fine to coarse sand trace silt & cobbles	Dry, gets denser, gets coarser, <1', <40%	
2'	20-212	Gp	10yr 5/4 yellowish brown		2.5%
10'	20-213	Gp	No changes test pit terminated		2.9%

Reported by: Tim Barney, ICC Geotechnical Inspector	Reviewed by: Michael Staten, PE
---	---------------------------------

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Revised: 11/15/2017  
Revised: 11/15/2017



# Pacific Testing & Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531

Phone (360) 736-3922 Fax (360) 807-6002

## LOG OF TEST PIT

<b>Project No.:</b> 200071	<b>Project Name:</b> Chehalis Elders Center	<b>Client:</b> Chehalis Tribe	<b>Date:</b> 9/3/2020
-------------------------------	--	----------------------------------	--------------------------

<b>Test Pit No.:</b> 2	<b>Location:</b> South Center	<b>Diameter:</b>	
---------------------------	----------------------------------	------------------	--

<b>Logged By:</b> TB	<b>Depth of Water:</b> None	<b>Date Checked:</b> 9/3/2020	<b>Depth of Caving:</b>
-------------------------	--------------------------------	----------------------------------	-------------------------

Elev. Or Depth	Lab #	USCS	Description	Remarks	Moisture (%)
0'-1'		Ol	Forest duff		
1'		Gp	Tan - Medium Brown gravel w/fine to coarse sand & some silt & cobble	Dry, loose, <1.5', <30%, rounded	
1.5'		Gp	Medium Brown gravel w/ fine to coarse sand trace silt & cobbles	Dry, gets denser, gets coarser, <1', <40%	
2'		Gp	Same gets denser	harder digging	
8'	20-215	Gp	10yr 4/2 dark gray		3.5%
9'	20-214	Gp	10yr 4/1 dark gray		3.9%
10'	20-216	Gp	No changes test pit terminated		2.6%

Reported by: Tim Barney, ICC Geo technical Inspector	Reviewed by: Michael Staten, PE
--	---------------------------------

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Rev. 09/01/2010  
R. Stevens, P.E.



# Pacific Testing & Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531

Phone (360) 736-3922 Fax (360) 807-6002

## LOG OF TEST PIT

<b>Project No.:</b> 200071	<b>Project Name:</b> Chehalis Elders Center	<b>Client:</b> Chehalis Tribe	<b>Date:</b> 9/3/2020
-------------------------------	--	----------------------------------	--------------------------

<b>Test Pit No.:</b> 3	<b>Location:</b> South West	<b>Diameter:</b>	
---------------------------	--------------------------------	------------------	--

<b>Logged By:</b> TB	<b>Depth of Water:</b> None	<b>Date Checked:</b> 9/3/2020	<b>Depth of Caving:</b>
-------------------------	--------------------------------	----------------------------------	-------------------------

Elev. Or Depth	Lab #	USCS	Description	Remarks	Moisture (%)
0'-1'		Ol	Forest duff		
1'		Gp	Tan - Medium Brown gravel w/fine to coarse sand & some silt & cobble	Dry, loose, <1.5', <30%, rounded	
1.5'		Gp	Medium Brown gravel w/ fine to coarse sand trace silt & cobbles	Dry, gets denser, gets coarser, <1', <40%	
2'		Gp	Same gets denser	harder digging	
7'	20-217	Gw	10yr 3/4 yellowish brown		2.6%
10'		Gp	No changes test pit terminated		

<b>Reported by:</b> Tim Barney, ICC Geo Technical Inspector	<b>Reviewed by:</b> Michael Staten, PE
---	--

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public, and ourselves, all reports are submitted as the confidential property of clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Rev: 10/01/13  
Rev: 08/01/14

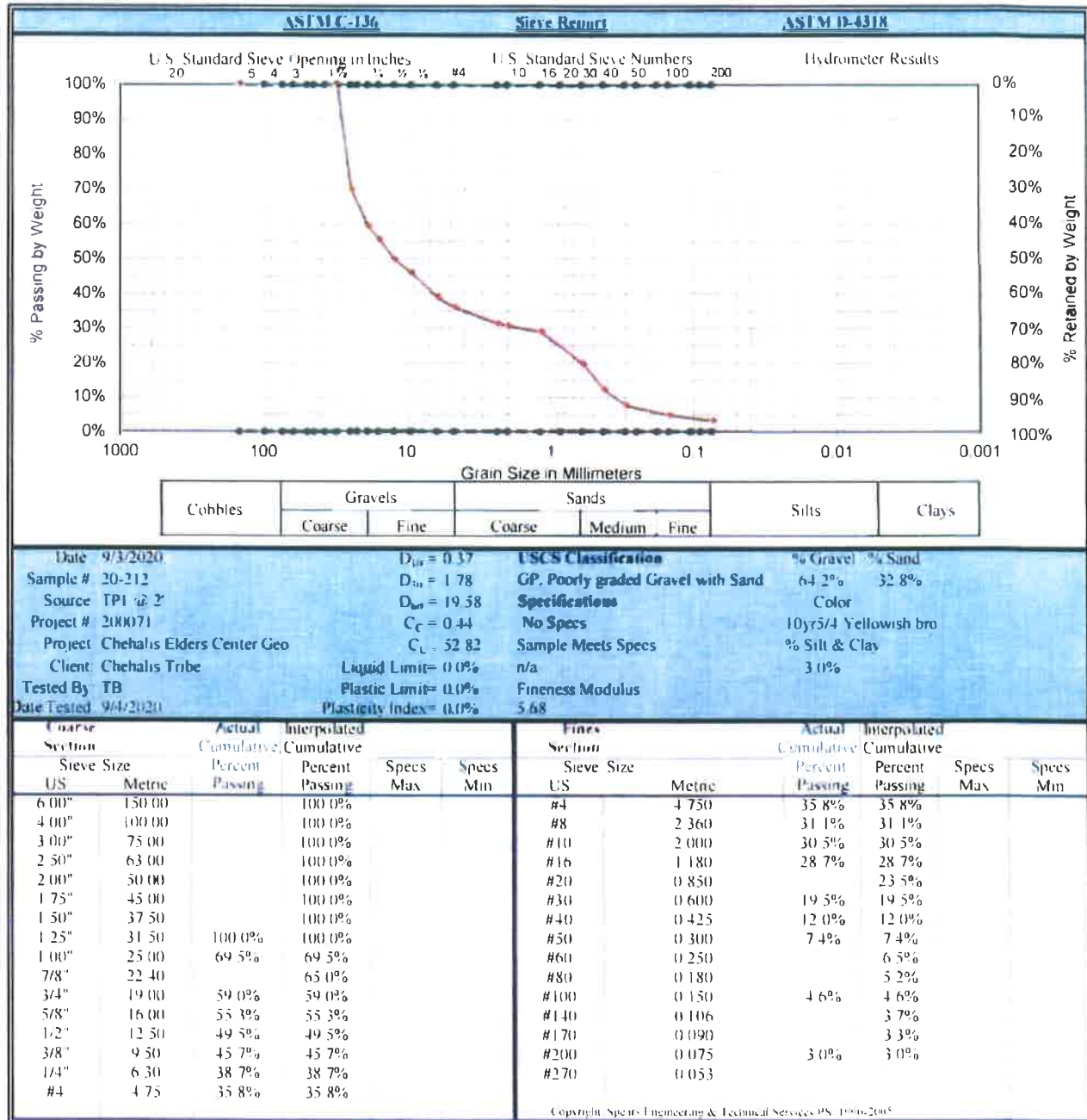


**APPENDIX C**  
**SEIVE ANALYSIS RESULTS**



# Pacific Testing Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531  
Phone (360) 736-3922 Fax (360) 807-6022



Comments: Moisture content = 2.5%

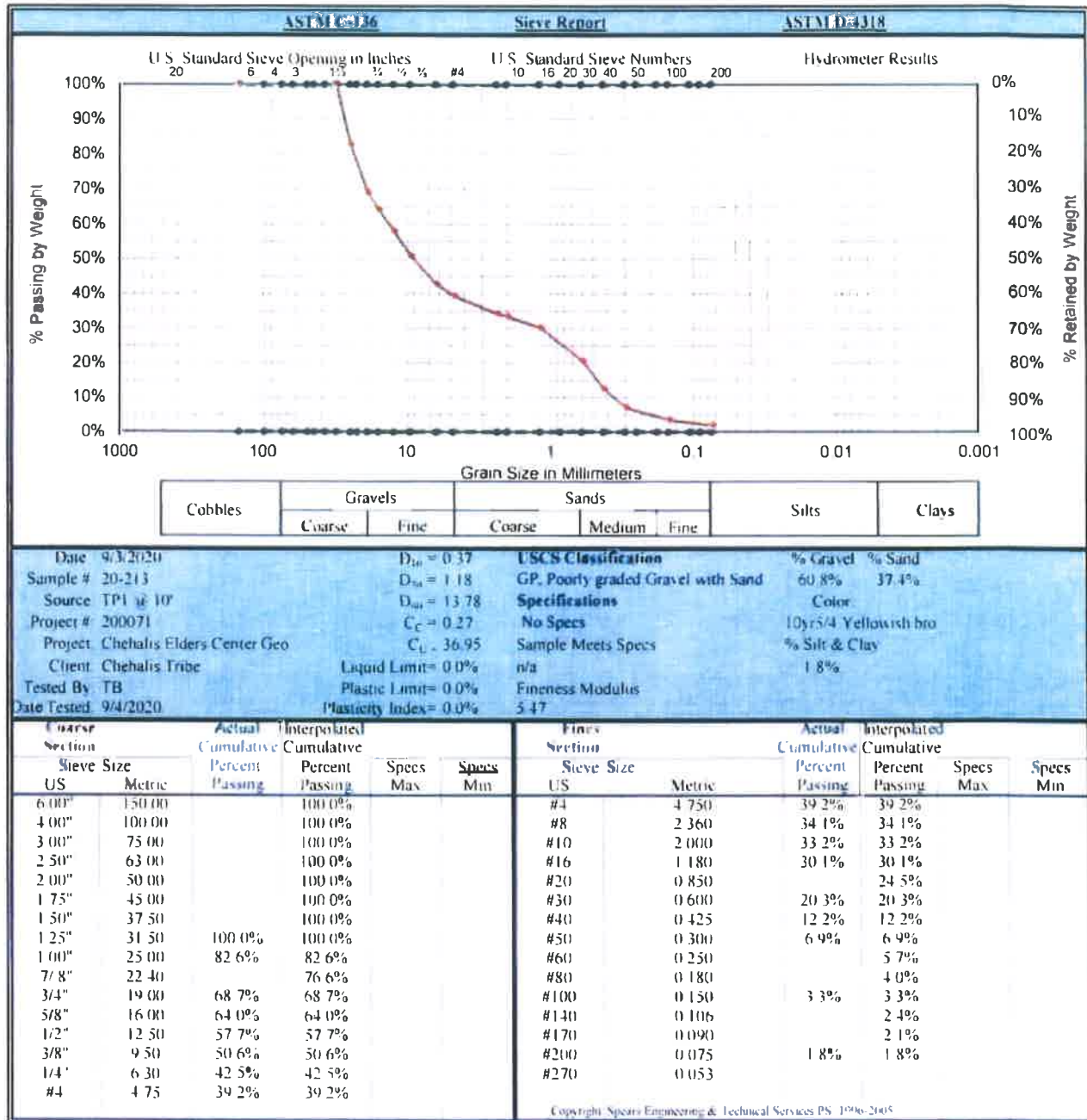
Reviewed by: Tim Barnes, Lab Manager

All rights apply only to the individual test results. As a condition of our service, all test results and data are the property of Pacific Testing Inspection Inc. and are not to be used for any other purpose without our written permission. No part of this report may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without our written permission.



# Pacific Testing Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531  
Phone (360) 736-3922 Fax (360) 807-6022



Comments: Moisture content = 2.9%

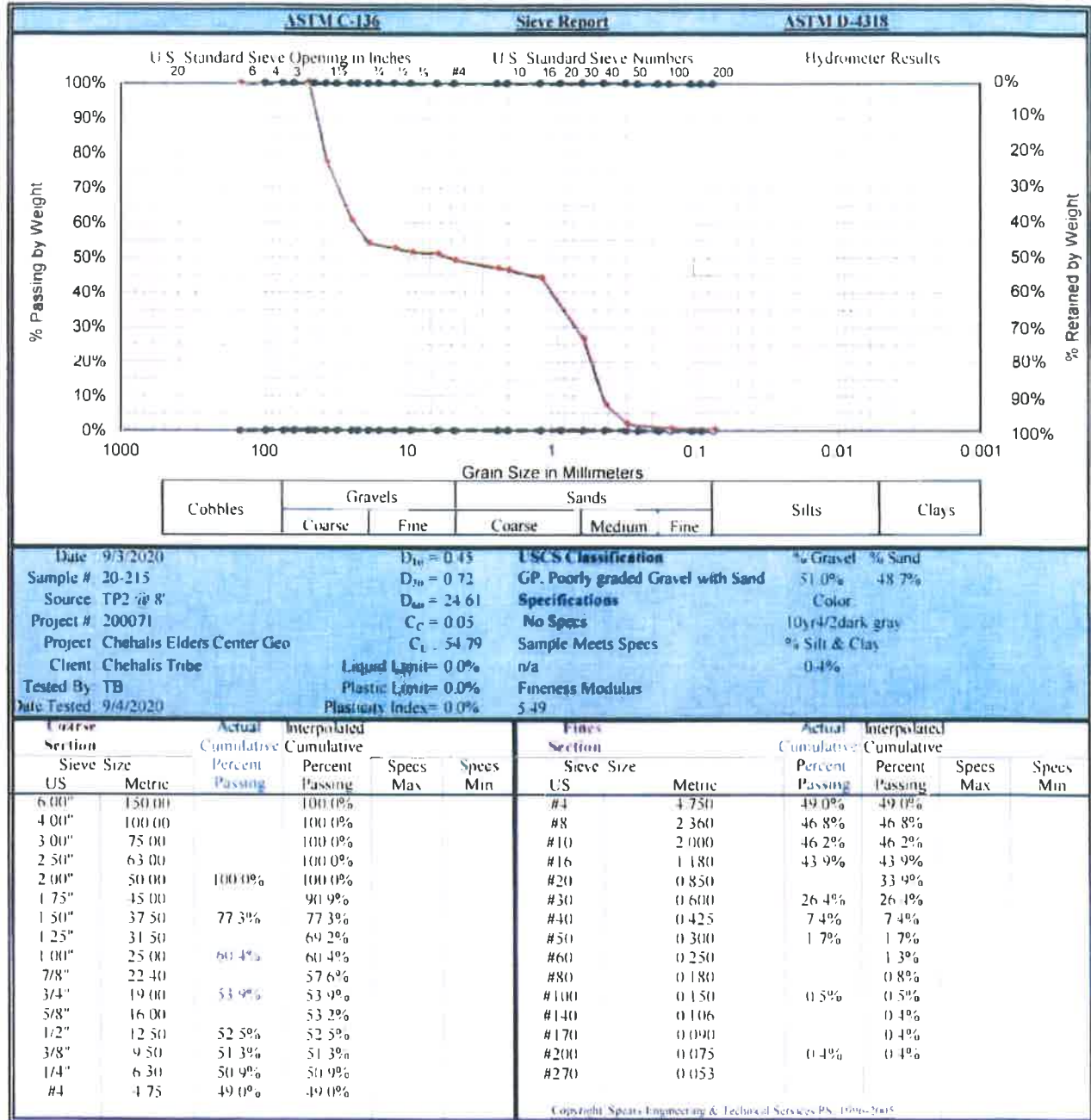
Reviewed by: Tim Barney, Lab Manager

All results apply only to the specific materials and methods tested. As a matter of professional ethics, the results are confidential; all reports are submitted to the client for their review and approval. The results are not to be used for any other purpose without the written approval of the client. The results are not to be used for any other purpose without the written approval of the client.



# Pacific Testing Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531  
Phone (360) 736-3922 Fax (360) 807-6022



Comments: Moisture content = 3.5%

Reviewed by: Tim Barney, Lab Manager

All rights reserved. This report is the property of Pacific Testing Inspection Inc. and is not to be used for any other purpose without the written consent of Pacific Testing Inspection Inc. All reports are confidential and the information contained herein is not to be disclosed to the public without the written consent of Pacific Testing Inspection Inc. All reports are confidential and the information contained herein is not to be disclosed to the public without the written consent of Pacific Testing Inspection Inc.



**3215 Harrison Avenue, Centralia, WA 98531**  
**Phone (360) 736-3922 Fax (360) 807-6022**



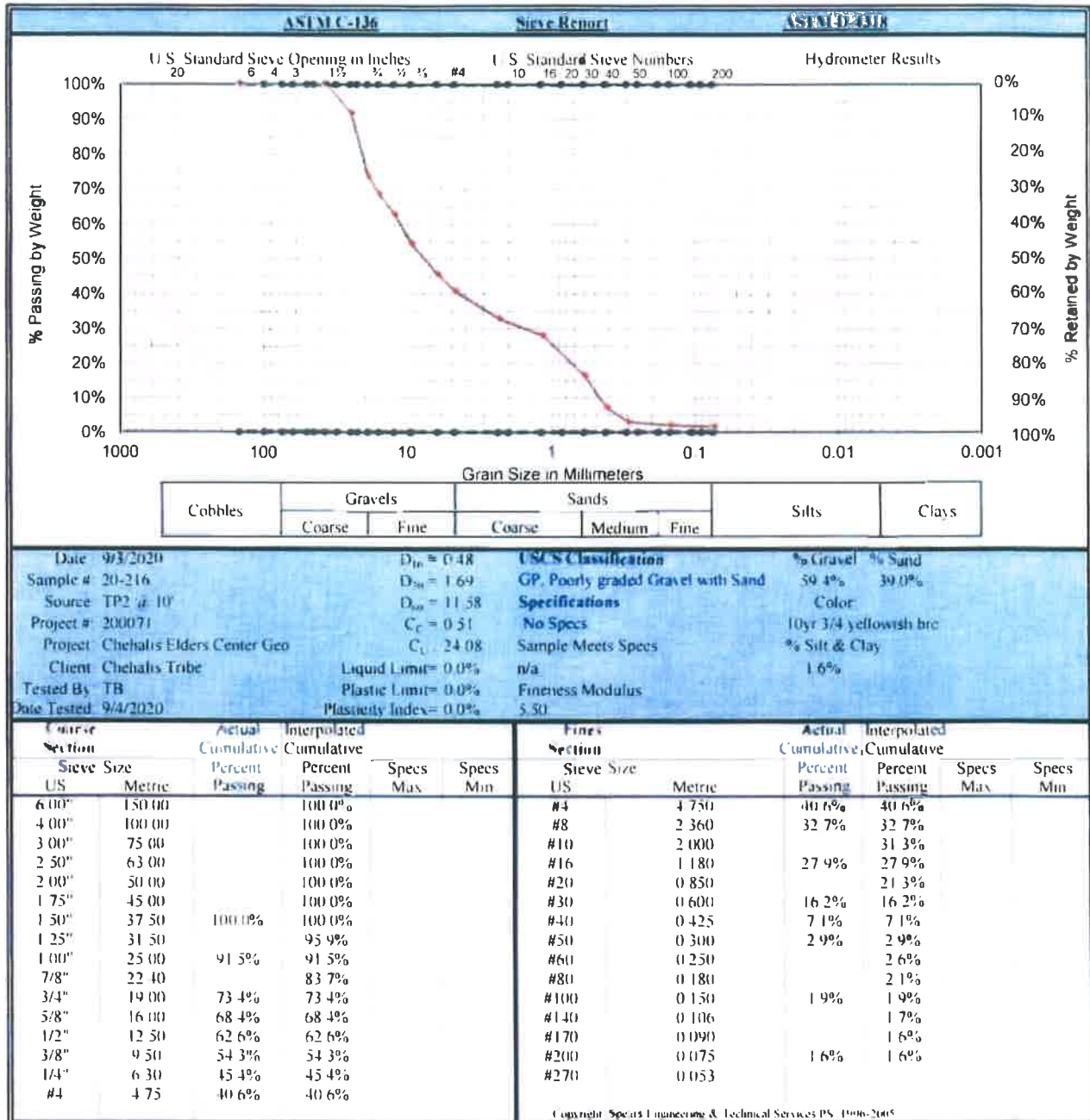
Reviewed by Tim Barney, Lab Manager

All results apply only to external concerns and are not to be used. As a mutual protection to clients, the public, and ourselves, all reports are submitted as the confidential property of Chem-Trend and authorization for publication of statements, conclusions, or extracts from or regarding our reports is received pending our written approval.



# Pacific Testing Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531  
Phone (360) 736-3922 Fax (360) 807-6022



Comments: Moisture content = 2.6%

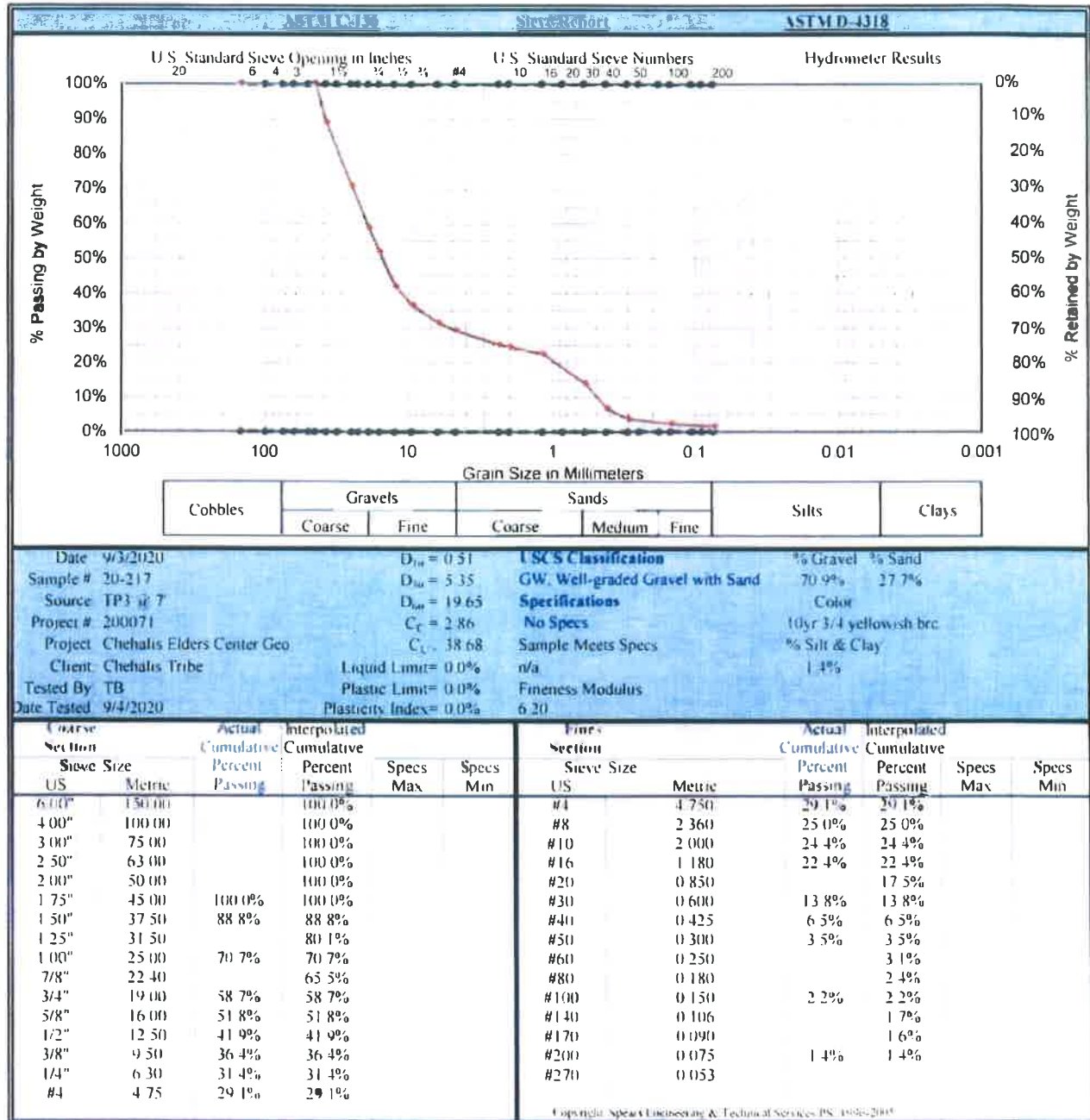
Reviewed by: Tim Barney, Lab Manager

All results apply only to actual locations and materials tested. As a matter of protection to clients, the public, and ourselves, all reports are submitted as the confidential property of client and authorized for publication only. Unauthorized circulation or use of test results without the express written consent of Pacific Testing Inspection Inc. is strictly prohibited.



# Pacific Testing Inspection Inc.

3215 Harrison Avenue, Centralia, WA 98531  
Phone (360) 736-3922 Fax (360) 807-6022



Comments: Moisture content = 2.6%

Reviewed by: Tim Barney, Lab Manager

All results apply only to the laboratory and materials tested. As a general precaution to clients, the public and ourselves, all reports are submitted as the confidential property of client and no authorization for publication of them or conclusions or extracts therein regarding our reports is received pending our written approval.



**APPENDIX C**  
**CEC RESULTS**



# Libby Environmental, Inc.

CHEHALIS ELDERS CENTER PROJECT

Pacific Testing and Inspection, Inc.

Libby Project # L200904-1

Date Received 9/4/2020

Time Received 10:53 AM

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Received By JA

## Sample Receipt Checklist

### Chain of Custody

- |   |  |                                    |                                  |
|---|--|------------------------------------|----------------------------------|
| 1. Is the Chain of Custody is complete? | <input checked="" type="checkbox"/> Yes            | <input type="checkbox"/> No        |                                  |
| 2. How was the sample delivered?        | <input checked="" type="checkbox"/> Hand Delivered | <input type="checkbox"/> Picked Up | <input type="checkbox"/> Shipped |

### Log In

- |   |   |  |   |
|---|---|--|---|
| 3. Cooler or Shipping Container is present.                   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A            |
| 4. Cooler or Shipping Container is in good condition.         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| 5. Cooler or Shipping Container has Custody Seals present.    | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| 6. Was an attempt made to cool the samples?                   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A            |
| 7. Temperature of cooler (0°C to 8°C recommended)             | <u>N/A</u> °C                           |  |   |
| 8. Temperature of sample(s) (0°C to 8°C recommended)          | <u>24.0</u> °C                          |  |   |
| 9. Did all containers arrive in good condition (unbroken)?    | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| 10. Is it clear what analyses were requested?                 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| 11. Did container labels match Chain of Custody?              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| 12. Are matrices correctly identified on Chain of Custody?    | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| 13. Are correct containers used for the analysis indicated?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| 14. Is there sufficient sample volume for indicated analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| 15. Were all containers properly preserved per each analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| 16. Were VOA vials collected correctly (no headspace)?        | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| 17. Were all holding times able to be met?                    | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |

### Discrepancies/ Notes

- |   |                              |                             |   |
|---|------------------------------|-----------------------------|---|
| 18. Was client notified of all discrepancies? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
|---|------------------------------|-----------------------------|---|

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: \_\_\_\_\_

Regarding: \_\_\_\_\_

19. Comments. \_\_\_\_\_





3600 Fremont Ave. N  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**Libby Environmental**  
Sherry Chilcutt  
3322 South Bay Road NE  
Olympia, WA 98506

**RE: Chehalis Elders Center**  
**Work Order Number: 2009112**

September 22, 2020

**Attention Sherry Chilcutt:**

Fremont Analytical, Inc. received 1 sample(s) on 9/8/2020 for the analyses presented in the following report.

***Cation Exchange Capacity by EPA 9081***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

**Brianna Barnes**  
**Project Manager**

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025 2017 and QSM 5.3 for Environmental Testing  
ORELAP Certification WA 100009 (NELAP Recognized) for Environmental Testing  
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

[www.fremontanalytical.com](http://www.fremontanalytical.com)





Date: 09/22/2020

**CLIENT:** Libby Environmental  
**Project:** Chehalis Elders Center  
**Work Order:** 2009112

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2009112-001	Test Pit-1	09/03/2020 3:30 PM	09/08/2020 12:15 PM

Note: If no "Time Collected" is supplied, a default of 12 00AM is assigned

Original





## Case Narrative

WO# 2009112

Date: 9/22/2020

---

**CLIENT:** Libby Environmental  
**Project:** Chehalis Elders Center

---

### I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

### II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

### III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



**Qualifiers:**

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

**Acronyms:**

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate





## Analytical Report

Work Order: 2009112  
Date Reported: 9/22/2020

**Client:** Libby Environmental

**Collection Date:** 9/3/2020 3:30:00 PM

**Project:** Chehalis Elders Center

**Lab ID:** 2009112-001

**Matrix:** Soil

**Client Sample ID:** Test Pit-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Cation Exchange Capacity by EPA 9081**

Batch ID: R61987 Analyst: CO

Cation Exchange Capacity	7.14	1.00		meq/100g	1	9/18/2020 11:03:49 PM
--------------------------	------	------	--	----------	---	-----------------------





Date: 9/22/2020

Work Order: 2009112  
CLIENT: Libby Environmental  
Project: Chehalis Elder Center

**QC SUMMARY REPORT**  
**Cation Exchange Capacity by EPA 9081**

Sample ID: MB-R61987		SampType: MBLK		Units: meq/100g		Prep Date: 9/18/2020		RunNo: 61987			
Client ID: MBLKS		Batch ID: R61987				Analysis Date: 9/18/2020		SeqNo: 1243403			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	ND	1.00									

Sample ID	LCS-R61987	SampType	LCS	Units: µg/L			Prep Date			9/18/2020	RunNo			61987
Client ID	LCSS	Batch ID	R61987				Analysis Date			9/18/2020	SeqNo			1243405
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Sodium		1.050	100	1.000	0.1	105	75	125						

Sample ID: 2009112-001ADUP		SampType: DUP		Units: meq/100g		Prep Date: 9/18/2020		RunNo: 61987			
Client ID: Test Pit-1		Batch ID: R61987				Analysis Date: 9/18/2020		SeqNo: 1243408			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cation Exchange Capacity	6.72	1.00						7.140	6.06	30	

Original





## Sample Log-In Check List

Client Name: LIBBY

Work Order Number: 2009112

Logged by: Clare Griggs

Date Received: 9/8/2020 12:15:00 PM

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? UPS

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒  
6. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐  
Not required  
7. Were all items received at a temperature of  $>2^{\circ}\text{C}$  to  $6^{\circ}\text{C}$ ? Yes ☐ No ☐ NA ☒  
8. Sample(s) in proper container(s)? Yes ☒ No ☐  
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
10. Are samples properly preserved? Yes ☒ No ☐  
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒  
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐  
14. Does paperwork match bottle labels? Yes ☒ No ☐  
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
16. Is it clear what analyses were requested? Yes ☒ No ☐  
17. Were all holding times able to be met? Yes ☒ No ☐

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Per Case Name	_____	Date	_____
By Whom	_____	V	<input type="checkbox"/> M <input type="checkbox"/> P <input type="checkbox"/> E <input type="checkbox"/> G
Signature	_____		
Comments	_____		

19. Additional remarks:

### Item Information

	Item #	Temp °C
Sample		21.5

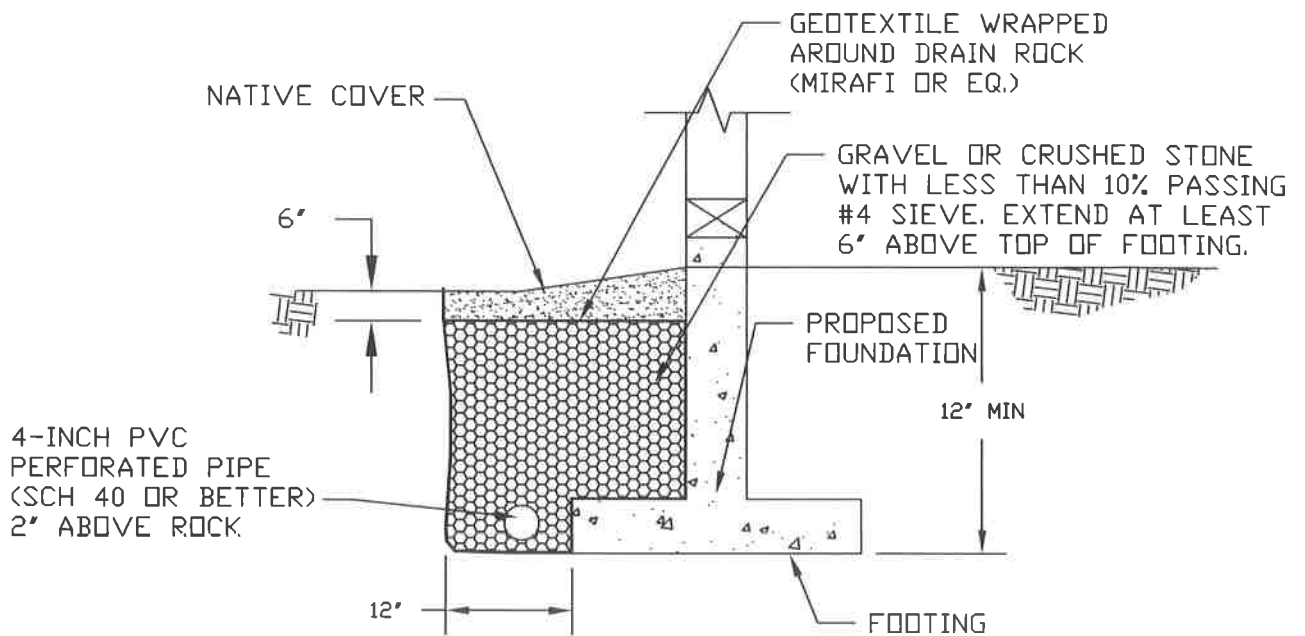
Note: DoD/ELAP and TNI require items to be received at  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Original

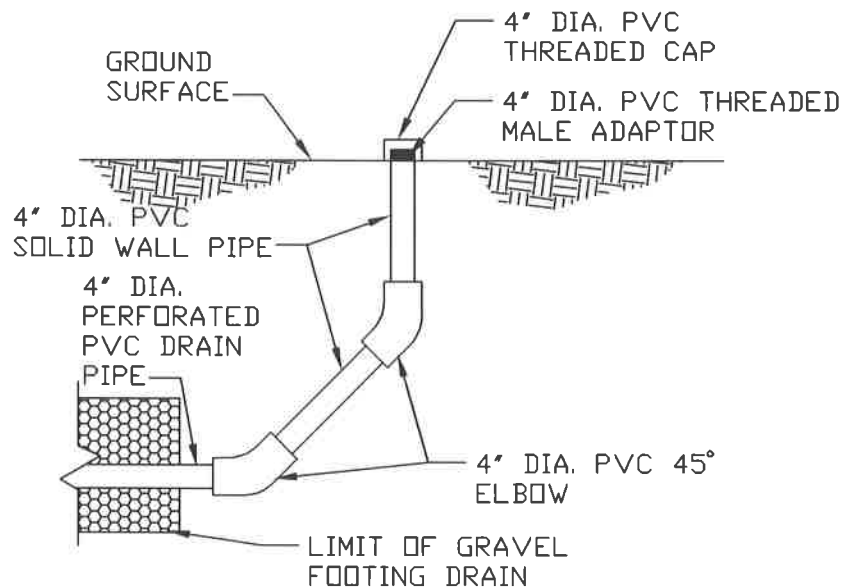


**APPENDIX E**  
**FOUNDATION PERIMETER DRAIN**





FOOTING PERIMETER DRAIN DETAILS  
N.T.S.

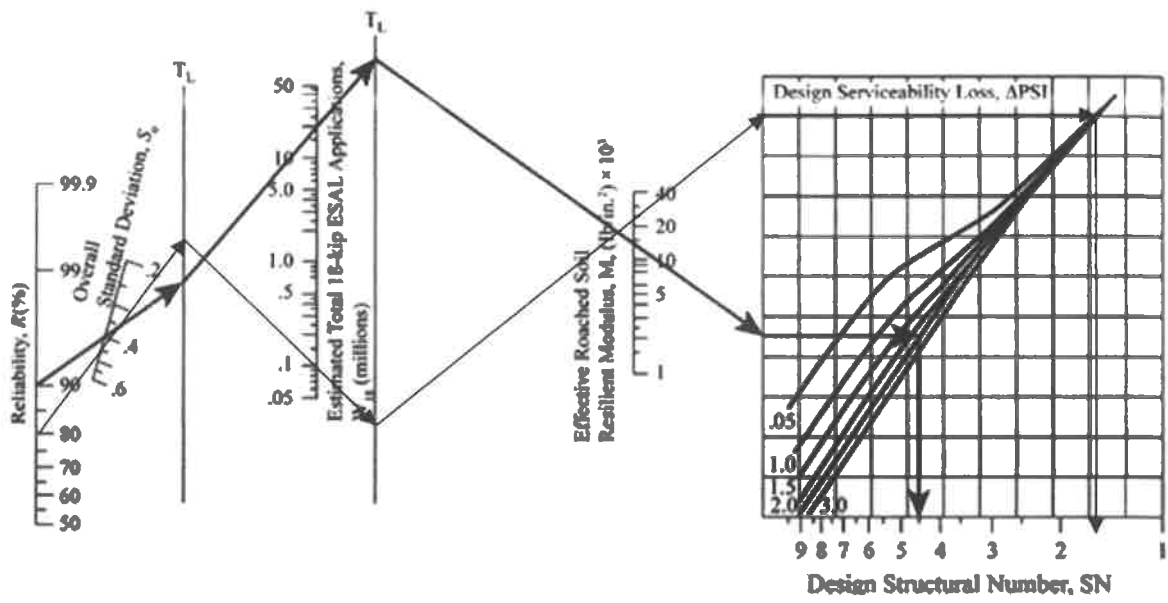


FOOTING DRAIN & CLEANOUT DETAILS  
N.T.S.



**APPENDIX F**  
**PAVEMENT NOMOGRAPH**







# Chehalis Tribe Elder Center

Detailed Cost Breakdown

11,710 SF

## BID PROPOSAL / SCHEDULE OF VALUES

BIDDER-

### COMPONENT DESCRIPTION

### EXTENSION

1. DEMO/EARTHWORK/UTILITIES	\$ -
2. HARDSCAPE/PAVING/FENCING	\$ -
3. SITE SPECIALTIES	\$ -
4. LANDSCAPING AND IRRIGATION	\$ -
5. FOUNDATIONS	\$ -
6. VERITCAL STRUCTURE	\$ -
7. FLOOR AND ROOF STRUCTURE	\$ -
8. EXTERIOR CLADDING	\$ -
9. ROOFING AND WATERPROOFING	\$ -
10. INTERIOR PARTITIONS AND DOORS	\$ -
11. INTERIOR FINISHES-FLOORS, WALLS, CEILINGS	\$ -
12. FIXED EQUIPMENT	\$ -
13. FURNISHINGS AND CASEWORK	\$ -
14. FIRE PROTECTION	\$ -









## SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: \_\_\_\_\_ Substitution Request Number: \_\_\_\_\_  
\_\_\_\_\_  
From: \_\_\_\_\_  
To: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_  
A/E Project Number: \_\_\_\_\_  
Re: \_\_\_\_\_ Contract For: \_\_\_\_\_

Specification Title: \_\_\_\_\_ Description: \_\_\_\_\_  
Section: \_\_\_\_\_ Page: \_\_\_\_\_ Article/Paragraph: \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_  
Manufacturer: \_\_\_\_\_ Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
Trade Name: \_\_\_\_\_ Model No.: \_\_\_\_\_

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: \_\_\_\_\_  
Signed by: \_\_\_\_\_  
Firm: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_\_

### A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution rejected - Use specified materials.  
☐ Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_

Date: \_\_\_\_\_

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ \_\_\_\_\_



# **ONLY ASI OFFERS THE LARGEST SELECTION OF DESIGNER OPTIONS IN THE INDUSTRY.**

Moisture  
Guard™  
Plastic  
Laminate

P. 10

Powder  
Coated

P. 8

Stainless  
Steel

P. 9

Phenolic

P. 13



Introducing the largest collection of partitions from one source. Since 1960, ASI® Global Partitions has been providing high-performance toilet partitions that meet or exceed specifications, require little maintenance, withstand the rigors of some very difficult environments, and provide a lifetime of low-cost of ownership. Only ASI® offers the most comprehensive collection of toilet partitions available anywhere. Welcome to choice—welcome to the new ASI.



Solid Plastic, Phenolic, Powder Coated, Stainless Steel or Moisture Guard™ Plastic Laminate partitions ready to ship **within 48 hours.**

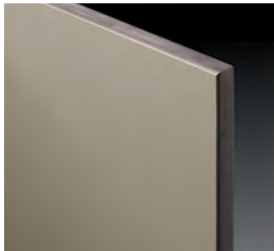


**Solid Plastic** P.12

**Alpaco Collection** P.5



## Phenolic provides superior strength, durability and a broad variety of patterns and colors.



Phenolic partitions sheets are fused at high temperature and pressure. In addition to strength and serviceability, a wide range of colors provides limitless design flexibility. Available in Color-Thru (Class "A" Fire Rated Material standard) and Black Core. **Options:** Continuous Piano Hinges, Continuous Anodized Aluminum and Stainless Steel Brackets, Custom Colors and No-Sight Privacy Strips.



### BLACK CORE COLOR SELECTION:\*



### COLOR-THRU SELECTION:



\*Shipped in 48 Hours available for Black Core Phenolic. Consult color card for more definitive color matching.

\*\*Directional Pattern – Pattern on panels over 60" wide will run perpendicular to pattern on doors and pilasters. Patterns shown cropped from full size sheet, contact us for additional references.



## ASI GLOBAL STYLES



### Floor Anchored/Overhead Braced

This economical and sturdy mounting style installs just about anywhere. An anodized aluminum anti-grip head rail secures partitions firmly to the walls.



### Floor Anchored

Simplified construction permits ease of installation anywhere. For concrete floors only: 2" minimum penetration into floor required.



### Ceiling Hung

When used together with wall-hung fixtures, the entire floor is accessible for efficient cleaning. Structural steel ceiling supports are necessary to assure proper installation.



### Floor to Ceiling Anchored

This mounting style is extremely stable and durable as pilasters are anchored into both the concrete floor and the structural ceiling support.





### Alpaco Classic

Zero sightlines, doors and pilasters that meet in a flush finish rebated closure all ensure guaranteed privacy. Style and stability have not been sacrificed in this collection, with robust octagonal head rails.



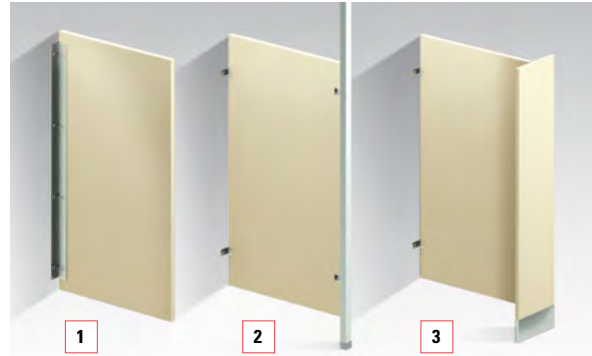
### Alpaco Elegance

The signature top rail provides structural stability and style. If you're looking for strength, comfort, aesthetics and durability, the Elegance collection has it all.



### Ultimate Privacy™

Our Ultimate Privacy design features doors and panels up to 72" tall and eliminates sightlines into the compartments around the doors.\*



### Urinal & Privacy Screens

#### 1 Wall-Hung Screens

Available in three standard heights: 42", 48" and 58".

#### 2 Post-Mounted Screens

1¾" sq. aluminum post in Floor Mounted or Floor to Ceiling Mounted.

#### 3 Pilaster-Mounted Screens

Available in Floor Mounted, Ceiling Hung, Floor to Ceiling or Overhead Braced.

*\*Shown in Stainless Steel, also available in Phenolic and Powder Coated Steel in all mounting styles.*



SECTION 10155  
TOILET COMPARTMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Phenolic partitions.

1.2 WARRANTY

- A. Manufacturers Standard Warranty: Provide warranty for Phenolic Material against delamination, breakage, or corrosion for 10 years, assuming proper maintenance according to manufacturer's recommendations.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer: ASI Global Partitions, which is located at: 2171 Liberty Hill Rd.; Eastanollee, GA 30538; Tel: 706-827-2700; Fax: 706-827-2710; Email:[request info](mailto:requestinfo@globalpartitions.com) ([sales@globalpartitions.com](mailto:sales@globalpartitions.com)); Web:[asi-globalpartitions.com](http://asi-globalpartitions.com)

2.2 COMPARTMENTS AND SCREENS

- A. Toilet Compartments: Floor anchored/overhead braced.
  - 1. Compartment Depth and Width: As scheduled and indicated on Drawings.
  - 2. Door Width: 24 inches (610 mm), minimum; at ADA accessible compartments 36 inches (915 mm) minimum.
  - 3. Height Above Floor: 6 inches (152 mm) if room size and plumbing locations allow, 9" AFF if room size and plumbing locations are restrictive.
  - 4. Door Height: 72 inches (1829 mm)
  - 5. Panel Height: 72 inches (1829mm)
  - 6. Pilaster Height: 86 inches (2083 mm).
- B. Privacy and Urinal Screens: Wall hung.
  - 1. Screen Panel Size: 24 inches (610 mm) wide by 48 inches (1219 mm) high.
  - 2. Height Above Floor: 18 inches (457 mm).

2.3 SOLID PHENOLIC

- A. Doors, Panels, Screens, and Pilasters: Decorative surface sheet with solid phenolic core of melamine resin impregnated kraft paper fused under high temperature and pressure; edges machine sanded with a 45 degree radius edge. Manufacturer's standard.
  - 1. Doors and Pilasters: 3/4 inch (19 mm) thick.
  - 2. Panels and Screens: 1/2 inch (13 mm) thick.
  - 3. Edges: Black core.
  - 4. Fire Rated Material: Class B, ASTM E 84.
- B. No-Sight System: No-Sight System: Doors and panels to be routed to allow overlapping edges and providing no sight lines into compartment.
- C. Finish: Solid phenolic with black core, as selected from manufacturer's standard colors.
- D. Door Hardware: Surface mounted barrel hinges.



1. Hinges: Type 304 Stainless steel barrel hinges 4 per standard door, 5 per accessible door. Door to be predrilled at factory for hinge location.
  2. Coat Hook and Bumper: Stainless steel, with black rubber tip for doorstep.
  3. Fastening Hardware: Manufacturer's standard Type 304 stainless steel, No. 4 satin finish, with theft-resistant barrel nuts and machine screws.
  4. Latch and keeper—ASI Global Alpaco stainless steel latch/keeper system with integral occupancy indicator to be installed on pilaster for inswinging doors and on door for outswinging doors.
- E. Mounting Brackets: Standard is Type 304 stainless steel continuous U brackets, No. 4 satin finish, with stainless steel theft-resistant barrel nuts and machine screws of same material and finish.
1. Optional 304 stainless steel stirrup brackets.
- F. Headrail: Manufacturer's standard anodized aluminum rail with anti-grip profile.
- G. Pilaster Anchors, Floor Anchored/Overhead Braced.
1. Easy Stall shoe system. 1/4 inch by 2 inch steel screws attach Easy Stall shoe to floor. Pilaster to be inserted into shoe and secured after height adjusted. Leveling adjustment to be concealed by pilaster shoe. Height/leveling adjustment to be made via machine thread bolts inserted into threaded insert in bottom of pilaster.

END OF SECTION



Global Partitions and Accurate Partitions are both owned by the same parent company. The ASI Group is a family of companies that manufacture products for various industries but in particular the construction industry and specifically commercial washroom components. Accurate Partitions and Global Partitions are both members of the ASI Group.

Global Partition products are all made in Eastanollee, Georgia. Accurate Partition steel partitions are made in Chicago but their plastic partitions are made in Georgia at one of our three plants in town. There are no differences in hardware offerings as standard between the two partition companies and the panels, pilasters and doors are identical on plastic partition components. The door hinges and latches for steel partitions are also identical. There are some color differences on powder coated steel partitions but the most commonly used colors are exactly the same.

There are no structural or aesthetic differences between Global and Accurate partitions.

Kyle Larson  
Sales and Marketing  
Global Partitions





# SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: Chehalis Elder's Center Substitution Request Number: \_\_\_\_\_  
From: \_\_\_\_\_  
To: ARC Architects Date: \_\_\_\_\_  
Attn: Paul Curtis A/E Project Number: \_\_\_\_\_  
Re: Substitution Request Contract For: \_\_\_\_\_  
Specification Title: Folding Panel Partitions Description: Folding Panel Partitions  
Section: 102239 Page: 4 Article/Paragraph: 2.2.A.1

Proposed Substitution: Moderco Signature 800 Series

Manufacturer: Moderco Address: 15 de Lauzon Boucherville Phone: (450) 641-3150  
Trade Name: Moderco Québec Canada, J4B 1E7 Model No.: 841

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Brian Goodwill (Estimator)

Signed by: Brian Goodwill (Estimator)

Firm: NWAP

Address: 18717 236th Ave NE  
Woodinville, WA 98077

Telephone: (425) 967 - 4444

Included Documentation:

Point to Point Comparison, Brochure, Data Sheet, Benefits of Aluminum Article, STC Report, Sample Warranty, LEED Information, References

## A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☐ Substitution rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_

Date: \_\_\_\_\_

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ \_\_\_\_\_





## POINT BY POINT COMPARISON OF

	<u><b>Moderco Signature 841</b></u>	<u><b>Hufcor 631 Series</b></u>
<b>Acoustics – STC</b>	53*	51*
<b>Panel Thickness</b>	4"	4"
<b>Operation</b>	Single, Manual	Single, Manual
<b>Frame</b>	Anodized, steel reinforced Aluminum	16 Gage Steel
<b>Finish Options</b>	Fabric	Standard - Vinyl
<b>Skin/Face Option</b>	Gyp/Steel	Steel/MDF
<b>Max Opening Width</b>	Unlimited	Unlimited
<b>Hanging Wt (lbs/sq ft)</b>	9.5	10.2
<b>Top/Bottom Seals</b>	Top: Fixed (Mechanical optional) Bottom: 2" Manual	Top: Fixed (Mechanical optional) Bottom: 2" Manual
<b>Warranty</b>	Will Match Specified Warranty	2 Years Materials & Workmanship

\* Specifications call for NIC 45; however, field tests consistently show NIC to be closer to 40 (industry-wide), in addition, the NIC is dependent upon the surrounding construction, therefore the NIC cannot be reasonably expected to be guaranteed (ASTM E557 attached).





SIGNATURE 800 • OPERABLE PARTITION





# SIGNATURE 800

## OPERABLE PARTITION

### BUILT TO LAST

Durability is the basis of the Signature design. All Signature Panels are built with a strong steel reinforced aluminum alloy frame that provides strength and stability as well as protection to the panel finish while panels are in motion.

### LIMITLESS FINISH POSSIBILITIES

Traditional vinyl, fabric, and acoustical wallcoverings are available in a variety of colors and textures. The Signature offers far more including: Plastic Laminates, Wood veneers, & Specialty steels (to name a few). Our Installing Distributors will work with you on applied millwork moldings, inset trims and other custom design finishes.

### SUSPENSION SYSTEMS

Aluminum tracks offer superior benefits including: yield strength stronger than steel, easy installation, and quiet smooth operation.

### SEALS

Moderco's Standard Bottom (Floor) Seals are set automatically as the panels are placed into position. Automatic Seals do not require a removable handle to set or release the seal and can be used only when fully extending the Partition.

### SINGLE PANELS

Single panel configurations allow the greatest flexibility in layouts. The panels can be used in openings of unlimited width and in multiple locations should the layout require flexibility.

### PAIRED PANELS

Paired Panels are designed for straight line openings, stacking at one or both ends; they offer a quick, easy and practical set up. Paired Panels are two panels hinged together with a single carrier centered in each panel.

### STORAGE POCKET DOORS

If the operable partition needs to be stored out of sight in a door closet or "Pocket" Moderco can supply a matching Pocket Door. The doors are generally used when the Operable Partition is sealing to the face of the Pocket Door.

### PASS DOORS

Pass Doors may be incorporated in selected panels to provide egress, fire safety, service entrance or general access to an area. Signature Pass Doors all have mechanical retractable bottom seals, no sweeps dragging on the floor, and are constructed to match the panel.





MODELS	841	842	843-E	843-EP
OPERATION	Individual	Paired	Continuously hinged, electrically operated	Continuously hinged, electrically operated pneumatic seals
CONFIGURATION	Remote/Side	Center		
THICKNESS	4" (102mm)			
PANEL FRAME	Trimless and protective trim aluminum frame		Protective trim aluminum frame	
STC	43, 47, 49, 52, 53*, 55**		43, 47, 49, 52	43, 47, 49, 52, 53
FINISH OPTIONS	Vinyl, Fabric, Carpet, Customer owned or specified material, Plastic laminate, Full height marker board, Tack board, Wood veneer, Steel, Uncovered			
MAX. HEIGHT	33'-3" (10130mm)	22'-3" (6780mm)		
PANEL WIDTH	Min. 24" (609mm) Max. 48 1/2" (1230mm)		Min.28" (711mm) Max. 48 1/2" (1230mm)	Min.32" (813mm) Max. 48 1/2" (1230mm)
PANEL WEIGHT	6 to 9.5 lbs./sq. ft. (29 to 46 kg/sq.m)		6 to 8.5 lbs./sq. ft. (29 to 41.5 kg/sq.m)	6 to 9.5 lbs./sq. ft. (29 to 46 kg/sq.m)
CLOSURE	Telescopic panel or hinged closure panel		Side jamb, pocket door	Pneumatically-operated telescopic mecanism
SEALS	FA FM : 1; 1.5; 2; 2.5; 4; MM : 1; 1.5; 2; 2.5; 4; 55** AA : 1.5		FF	FP
TRACK	#23-T, #33-T, #55-T, #72	#45-T, #55-T, #72	#55-T	#55-T

### SEALS TYPE

FA	Fixed top 1" (25mm) and Automatic bottom 2" (50mm) floor clearance
FM-1	Fixed top 1" (25mm) and manually-operated bottom 1" (25mm) floor clearance
FM-1.5	Fixed top 1" (25mm) and manually-operated bottom 1 1/2" (38mm) floor clearance
FM-2	Fixed top 1" (25mm) and manually-operated bottom 2" (50mm) floor clearance
FM-2.5	Fixed top 1" (25mm) and manually-operated bottom 2 1/2" (64mm) floor clearance
FM-4	Fixed top 1" (25mm) and manually-operated bottom 4" (102mm) floor clearance
MM-1*	Manually-operated top 1" (25mm) and bottom 1" (25mm) floor clearance
MM-1.5	Manually-operated top 1" (25mm) and bottom 1 1/2" (38mm) floor clearance
MM-2	Manually-operated top 1" (25mm) and bottom 2" (50mm) floor clearance
MM-2.5	Manually-operated top 1" (25mm) and bottom 2 1/2" (64mm) floor clearance
MM-4	Manually-operated top 1" (25mm) and bottom 4" (102mm) floor clearance
MM-55**	Manually-operated top 1" (25mm) and bottom 1" (25mm) floor clearance with additional fixed top sweeps
AA-1.5	Automatic top 1" (25mm) and bottom 1 1/2" (38mm) floor clearance
FF	Fixed top 1" (25mm) and bottom 2" (50mm) floor clearance
FP	Fixed top 1" (25mm) and pneumatically-operated bottom 2" (50mm) floor clearance



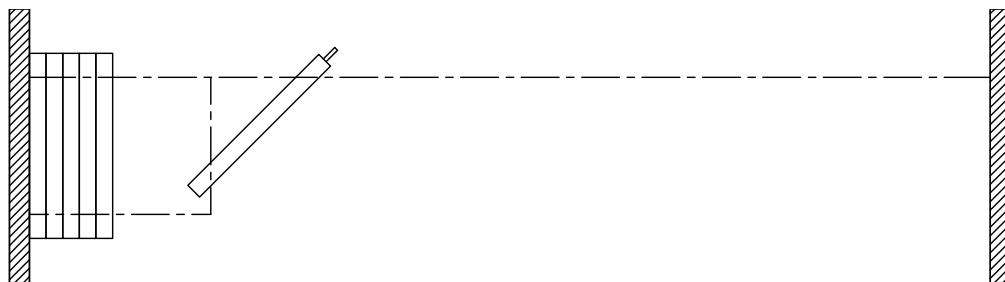
**MODERCO**

1-800-363-3150 • moderco.com



## Technical Data Sheet

### Signature 841



### Features & Options

#### Standard Features

- Manually-operated individual-panel movable partition.
- STC 43 or 47 with gypsum board faces.
- STC 49, 52, 53, or 55 with steel faces laminated to gypsum board.
- 102 mm [4"] nominal thickness. 1230 mm [48 1/2"] maximum width.
- Clear-anodized steel-reinforced aluminum frame.
- Protective trims on entire perimeter.
- Combination aluminum and vinyl tongue and groove vertical sound seals between panels.
- Final closure by telescopic jamb.
- Type FA horizontal seals:
  - Fixed top sweeps
  - Automatic retractable bottom seals set as panels are deployed
  - bottom seals provide a 50 mm [2"] floor clearance
- (STC 53) Type MM-1 horizontal seals:
  - top and bottom retractable seals
  - Manually-operated, simultaneously-activated top and bottom seals
  - bottom seals provide a 25 mm [1"] floor clearance

- (STC 55) Type MM-55 horizontal seals:
  - top and bottom retractable seals
  - Manually-operated, simultaneously-activated top and bottom seals
  - bottom seals provide a 25 mm [1"] floor clearance
  - additional fixed top sweeps
- Clear-anodized 6063-T6 alloy aluminum track.
- Each panel supported by two carriers made up of two horizontally-aligned precision-ground hardened steel ball bearing wheels with nylon tires.
- Vinyl wallcovering.

#### Optional Features and Accessories

- STC 49, 52, 53, or 55 with gypsum board faces and steel backing.
- Trimless vertical edges.
- Powder-coated frame and/or track.
- 11 ga. steel track, painted white.
- Upgraded wallcoverings : fabric, vertically-ribbed carpet, plastic laminate, full-height marker board, wood veneer, custom finishes.
- Owner-supplied wallcovering (approval required).
- Final closure by hinged closure panel.

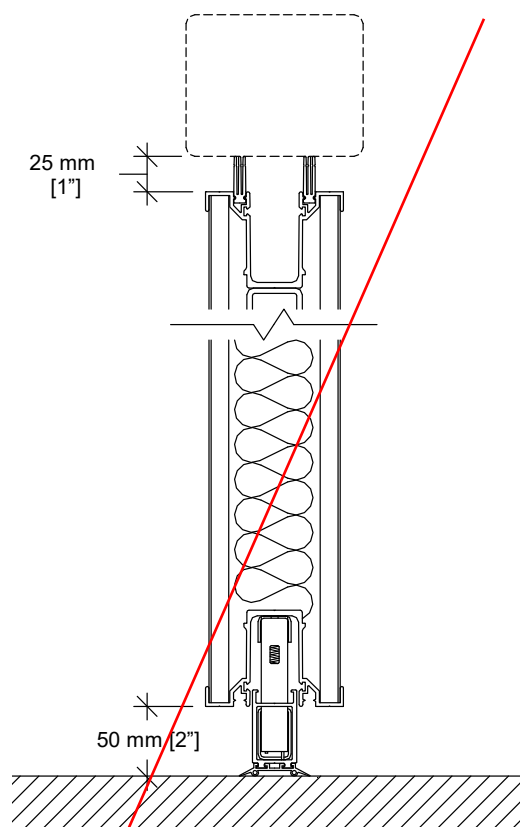


### Optional Features and Accessories (cont'd)

- (STC 43 to 52) Type FM horizontal seals:
  - Fixed top sweeps
  - Manually-operated bottom seals
  - bottom seals provide a floor clearance of 25 mm [1"], 38 mm [1 1/2"], 50 mm [2"], 64 mm [2 1/2"], or 102 mm [4"]
- (STC 43 to 52) Type MM horizontal seals:
  - top and bottom retractable seals
  - Manually-operated, simultaneously-activated top and bottom seals
  - bottom seals provide a floor clearance of 25 mm [1"], 38 mm [1 1/2"], 50 mm [2"], 64 mm [2 1/2"], or 102 mm [4"]
- (STC 43 to 52) Type AA horizontal seals:
  - top and bottom retractable seals
  - simultaneously-activated Automatic top and bottom seals
  - bottom seals provide a floor clearance of 38 mm [1 1/2"]
  - simultaneous operation of telescopic closure and seals of last panel (also available on partitions with type MM-1.5 horizontal seals)
- ADA-compliant pass door with flush pulls and roller latch.
- Door options:
  - concealed automatic closer
  - window frame
  - door viewer
  - panic bar
  - panic bar with lockable lever
  - self-illuminated exit sign \*
  - "green running man" self-illuminated exit sign \*
  - deadbolt lock \*

(\* An exit sign and a deadbolt lock will not be installed together on the same door.)
- Inset white marker boards / chalk boards / natural cork tack boards.
- Eraser boxes / chalk trays
- Acoustical or non-acoustical pocket door.
- UL/ULC-listed 1 hour fire-rating (requires type MM-1, MM-1.5, or MM-2 horizontal seals).

### **Horizontal Seals**

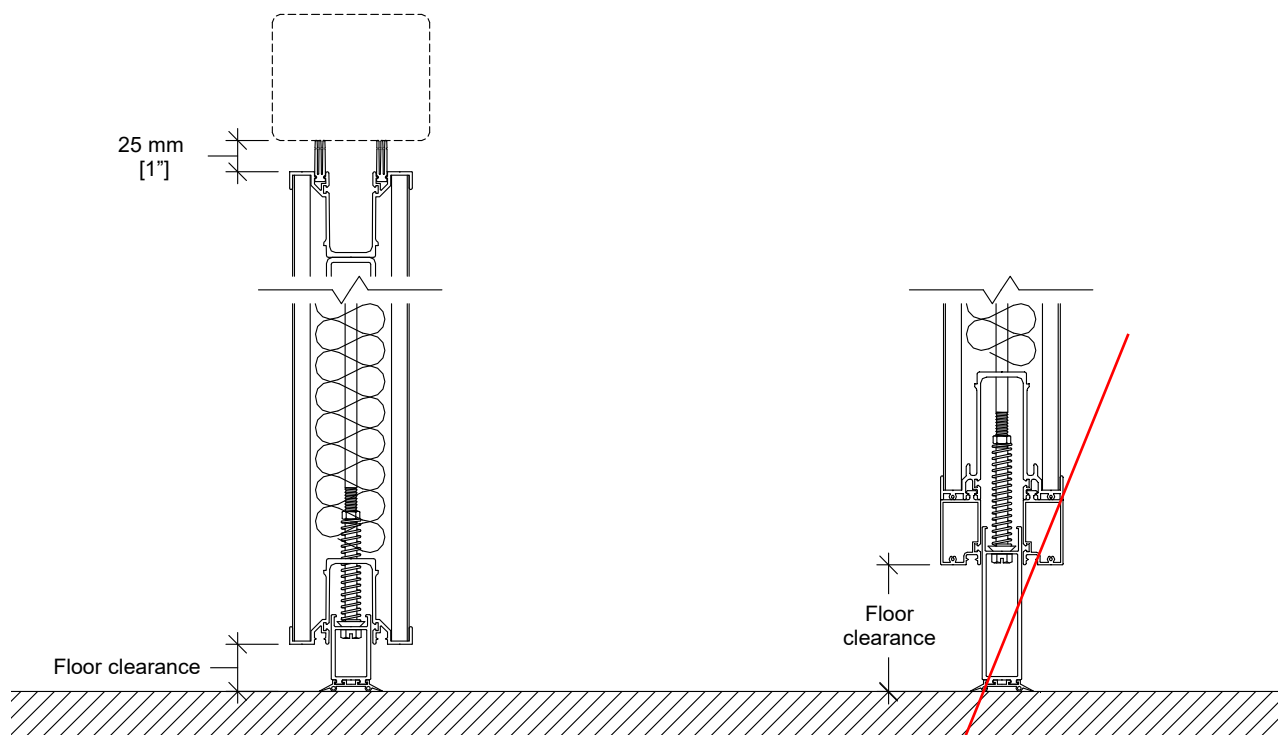


#### **Type FA**

Floor clearance : 50 mm [2"]  
 Operating tolerances :  
 +0 mm / -38 mm [+0" / -1 1/2"]



## Horizontal Seals (cont'd)



### Type FM-1

Floor clearance : 25 mm [1"]

Operating tolerances :

+0 mm / -15 mm [+0" / -5/8"]

### Type FM-1.5

Floor clearance : 38 mm [1 1/2"]

Operating tolerances :

+0 mm / -19 mm [+0" / -3/4"]

### Type FM-2

Floor clearance : 50 mm [2"]

Operating tolerances :

+0 mm / -25 mm [+0" / -1"]

### Type FM-2.5

Floor clearance : 64 mm [2 1/2"]

Operating tolerances :

+0 mm / -50 mm [+0" / -2"]

### Type FM-4

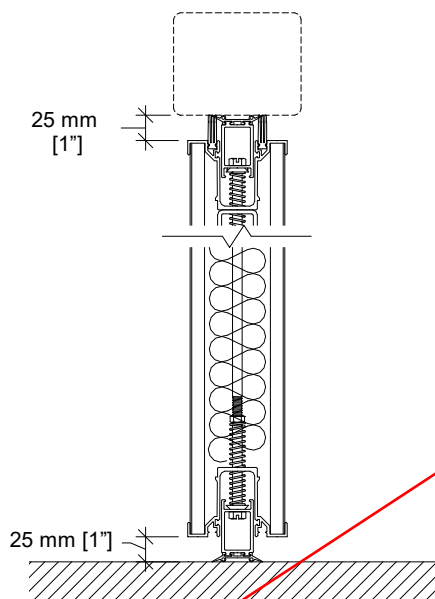
Floor clearance : 102 mm [4"]

Operating tolerances :

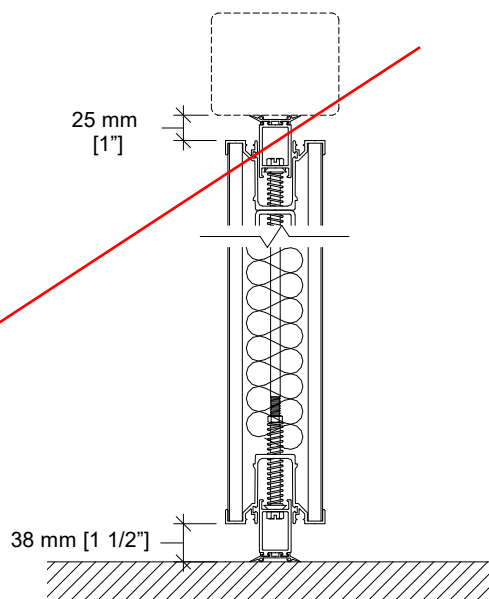
+0 mm / -89 mm [+0" / -3 1/2"]



## Horizontal Seals (cont'd)

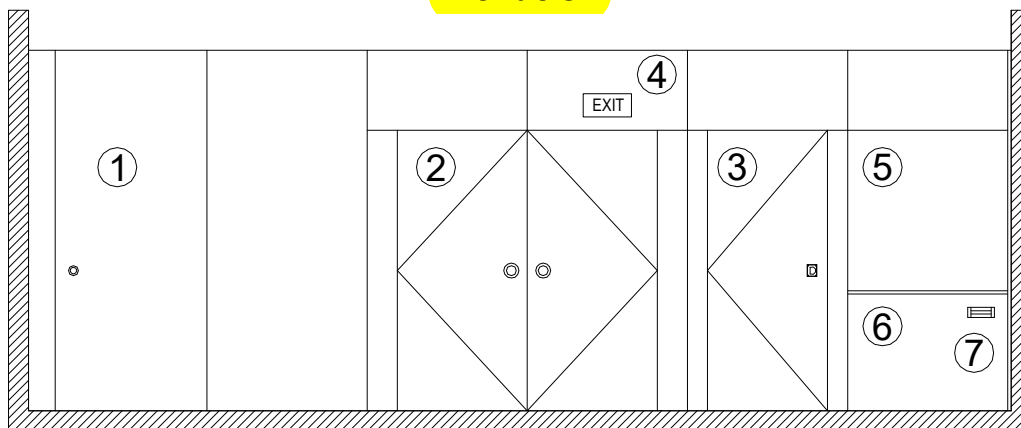


**Type MM-55** (STC 55 only)  
 Floor clearance : 25 mm [1"]  
 Operating tolerances :  
 +0 mm / -15 mm [+0" / -5/8"]



**Type AA**  
 Floor clearance : 38 mm [1 1/2"]  
 Operating tolerances :  
 +0 mm / -19 mm [+0" / -3/4"]

## Elevation

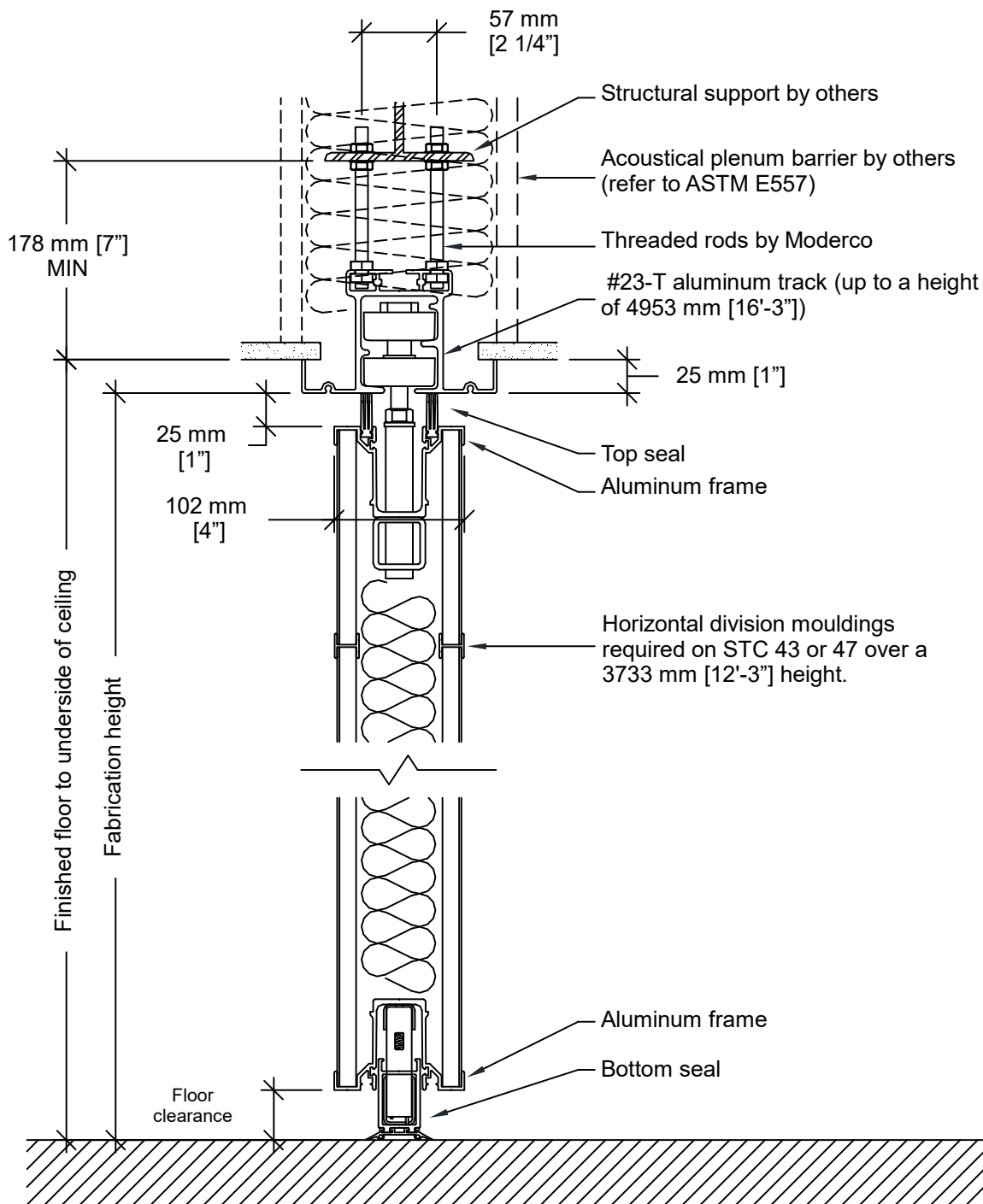


- 1- Telescopic closure panel
- 2- Double pass doors
- 3- Single pass door
- 4- Self-illuminated exit sign

- 5- Work surface
- 6- Chalk tray
- 7- Eraser box

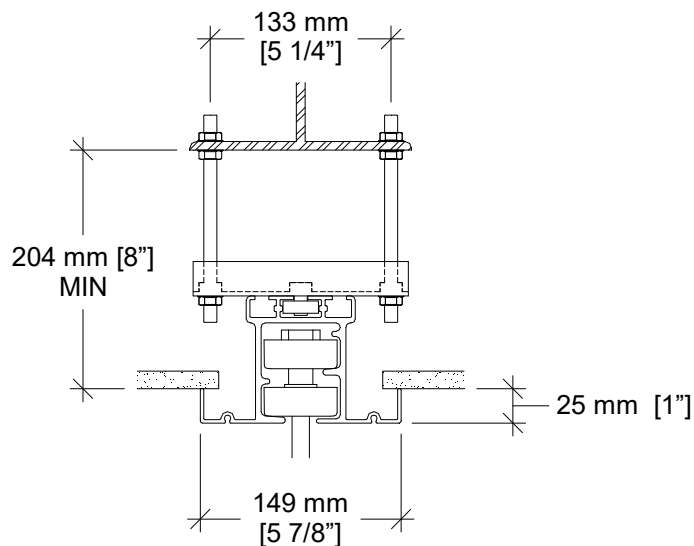


## Vertical Section



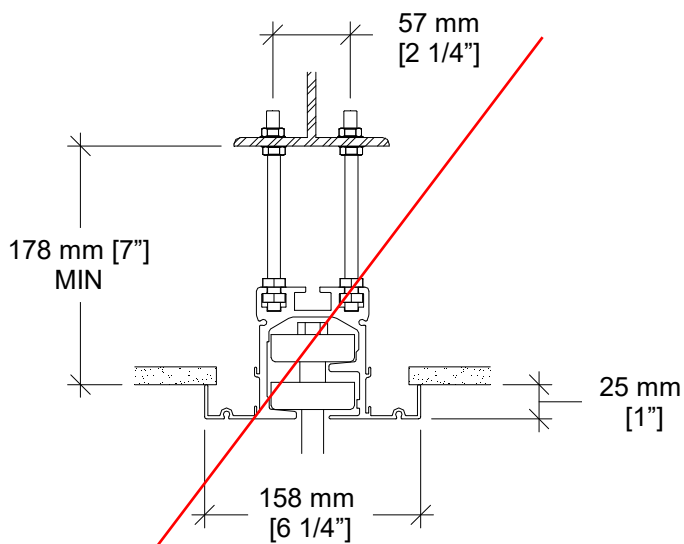


## Track Options



**#23-T track with optional hanger bracket**

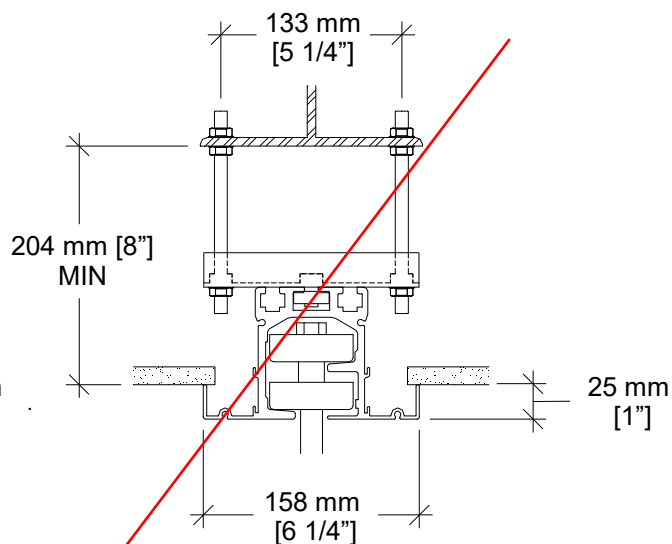
Hanger bracket required for installations where the topmost nuts cannot be used for adjustment.



**#33-T aluminum track**

Standard for partitions from a height of 4953 mm [16'-3\"] up to 6781 mm [22'-3\"].

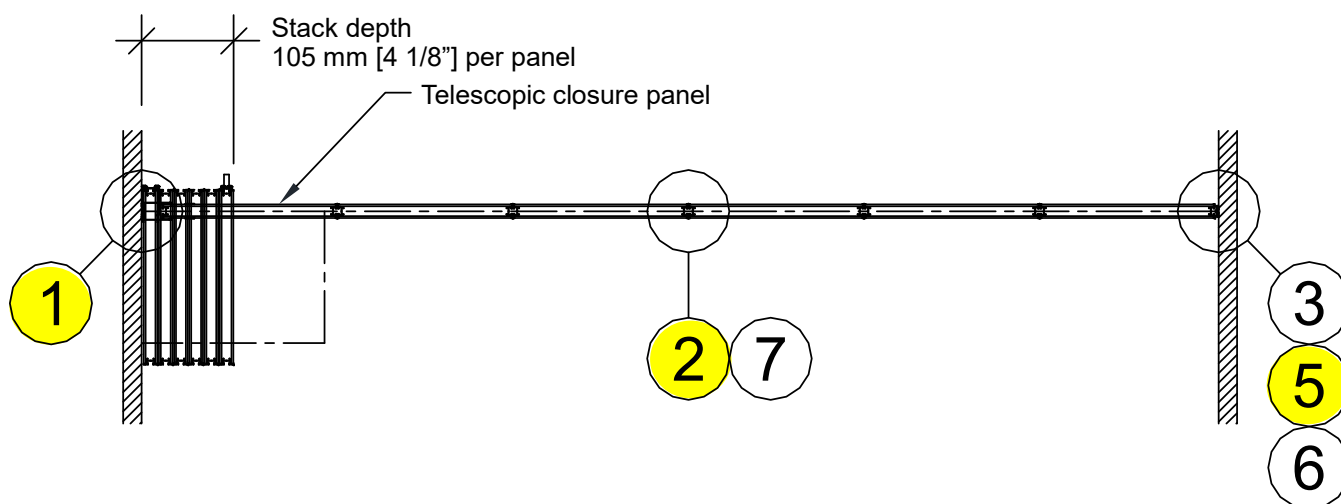
Optional for partitions up to 4343 mm [14'-3\"].



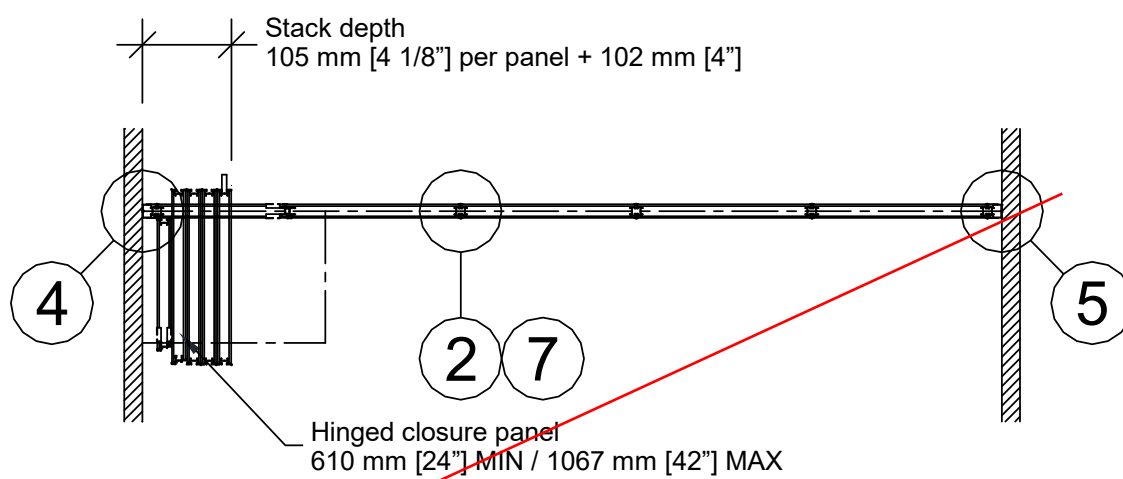
**#33-T aluminum track with optional hanger bracket**



## Plan Views



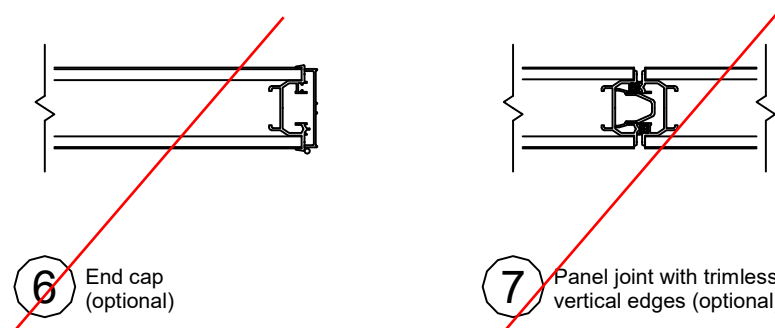
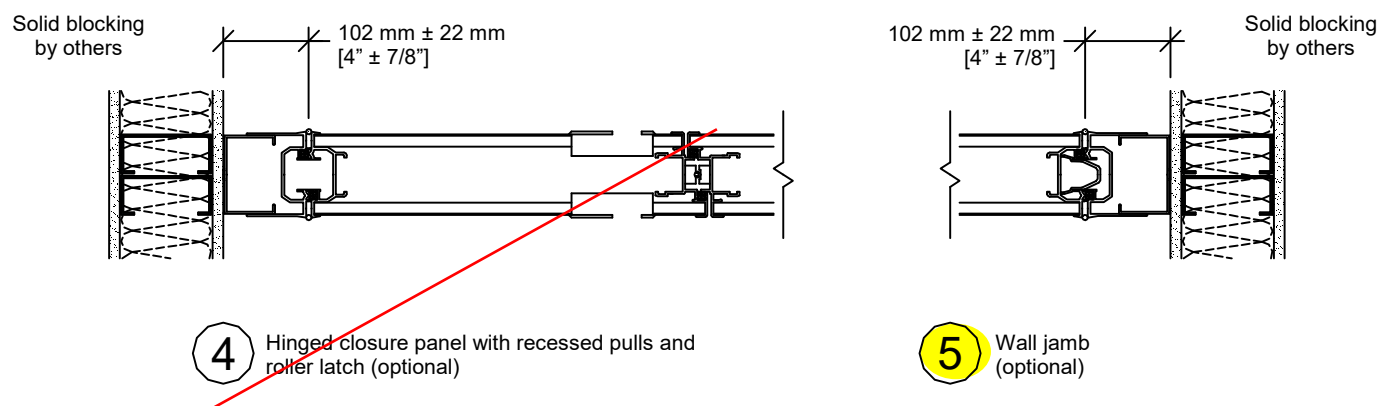
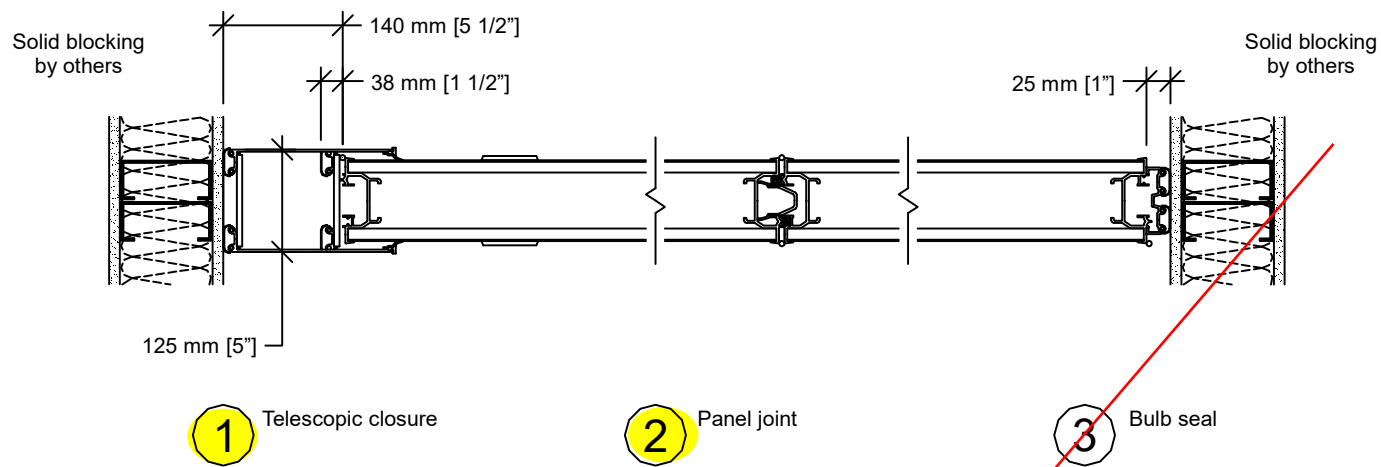
## Telescopic closure panel



## Hinged closure panel

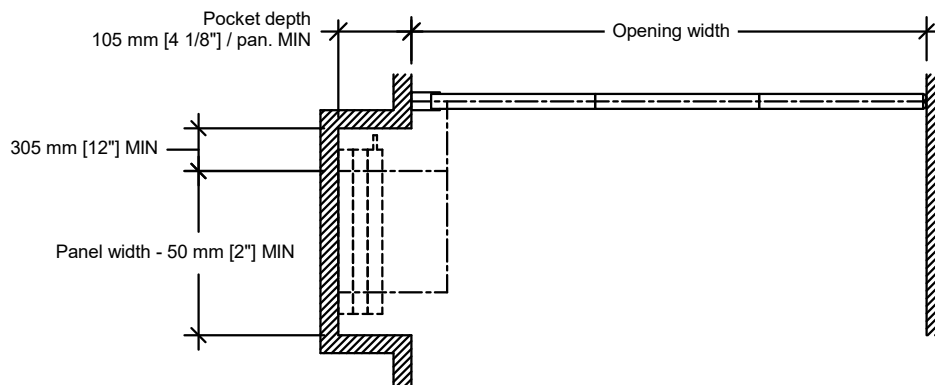


## Horizontal Sections

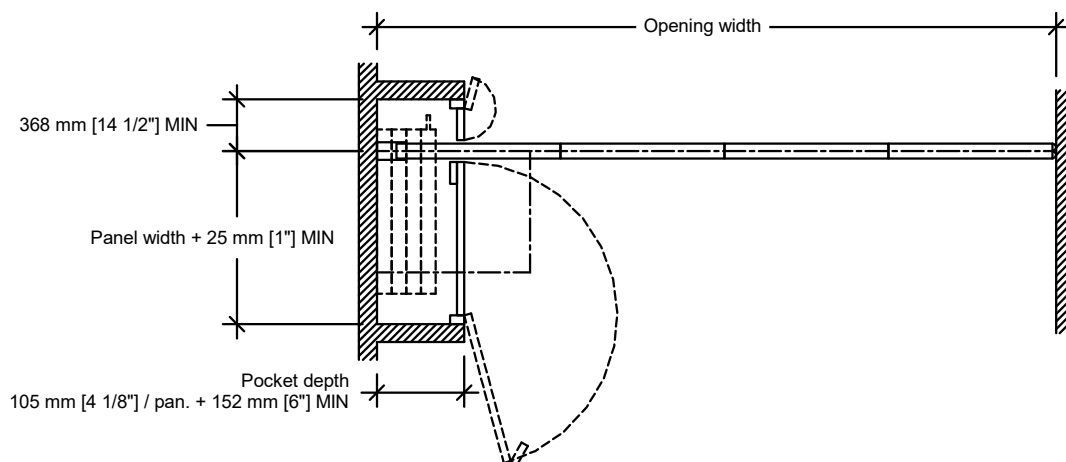




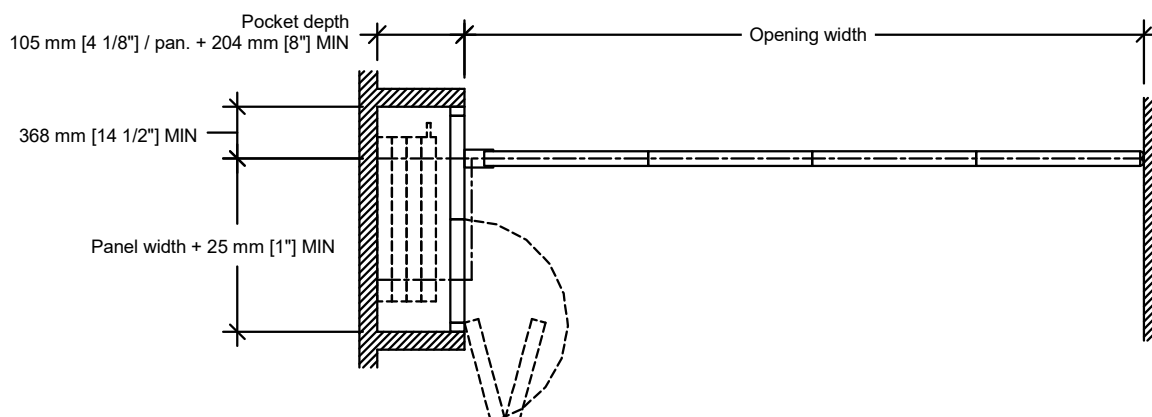
## Typical Layouts - #23-T & #33-T Tracks (cont'd)



### Remote Stack



### Pocket and PN-3 non-acoustical pocket door (partition seals to back of pocket)



### Pocket and PA-2B acoustical pocket door (partition seals to face of pocket door)



# RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE  
GENEVA, ILLINOIS 60134

OF  
IIT RESEARCH INSTITUTE

630/232-0104  
FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

## TEST REPORT

FOR: Moderco Inc.

Sound Transmission Loss Test

RAL™-TL00-103

ON: Operable 8000 Series Folding Partition

Page 1 of 4

CONDUCTED: 26 July 2000

### TEST METHOD

Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E90-99 and E413-87, as well as other pertinent standards. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure. A description of the measuring technique is available separately.

### DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as an operable 8000 Series folding partition. The overall dimensions of the specimen as measured were 4.27 m (168 in.) wide by 2.56 m (100.75 in.) high and 102 mm (4 in.) thick. The specimen was installed by the manufacturer directly into the laboratory's 2.74 m (9 ft) by 4.27 m (14 ft) wood-lined steel frame and was sealed on the periphery (both sides) with a dense mastic.

The manufacturer's description of the specimen was as follows: The test specimen was a top supported, manually operated 8000 series folding partition. The overhead track was covered on both sides by a gypsum board construction bulkhead covered with a dense mastic and was not included in the overall area of the sample. The assembly consisted of a single No. 45 track system with a No. 45 trolley per panel. Each trolley was made of four (4) steel ball bearings with nylon tires. The closure system consisted of a telescopic mechanism made of a "U" shape assembly providing lateral pressure. The specimen wall butted into a two-part wall jamb sealed at the back with caulking. Each panel was constructed of a steel reinforced aluminum full perimeter protective frame that held a layer of 13 mm (.50 in.) thick gypsum board on both sides of a 64 mm (2.5 in.) thick fiberglass acoustical core. Skins of 16 gauge steel were bonded to the inside of the gypsum board faces. The panels were finished with Moderco Class A reinforced vinyl, pressure bonded to the panel faces. The vertical seals were a combination of double tongue and groove systems with voids filled with alignment mouldings and absorbent material. The horizontal top and bottom seals were of the lever operated mechanical type with neoprene gasket. The specimen was opened and closed at least five times, and the test was conducted with no further adjustments.

This report shall not be reproduced except in full, without the written approval of RAL.

THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.



ACCREDITED BY DEPARTMENT OF COMMERCE, NATIONAL VOLUNTARY LABORATORY  
ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.  
THE LABORATORY'S ACCREDITATION OR ANY OF ITS TEST REPORTS IN NO WAY CONSTITUTES  
OR IMPLIES PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NIST.



# RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE  
GENEVA, ILLINOIS 60134

OF  
IIT RESEARCH INSTITUTE

630/232-0104  
FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

## TEST REPORT

Moderco Inc.

RAL™-TL00-103

26 July 2000

Page 2 of 4

### DESCRIPTION OF THE SPECIMEN (Continued)

The specimen consisted of four panels. Three panels measured 1.03 m (40.5 in.) wide by 2.56 m (100.75 in.) high and 102 mm (4 in.) thick. The fourth panel measured 1.03 m (40.5 in.) wide by 2.56 m (100.75 in.) high and had a telescopic end jamb attached. The telescopic end measured 222 mm (8.75 in.) wide by 2.57 m (101 in.) high and 165 mm (6.5 in.) thick.

The weight of the specimen as measured was 626.4 kg (1,381 lbs) an average of 57.4 kg/m<sup>2</sup> (11.8 lbs/ft<sup>2</sup>). The transmission area used in the calculations was 10.9 m<sup>2</sup> (117.5 ft<sup>2</sup>). The source and receiving room temperatures at the time of the test were 26°C (78±1°F) and 56±3% relative humidity. The source and receive reverberation room volumes were 179m<sup>3</sup> (6,298 ft<sup>3</sup>) and 177 m<sup>3</sup> (6,255 ft<sup>3</sup>), respectively.

This report shall not be reproduced except in full, without the written approval of RAL.

THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.

ACCREDITED BY DEPARTMENT OF COMMERCE, NATIONAL VOLUNTARY LABORATORY  
ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.

THE LABORATORY'S ACCREDITATION OR ANY OF IT'S TEST REPORTS IN NO WAY CONSTITUTES  
OR IMPLIES PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NIST.

NVLAQ



# RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE  
GENEVA, ILLINOIS 60134

OF  
IIT RESEARCH INSTITUTE

630/232-0104  
FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

## TEST REPORT

Moderco Inc.

RAL™-TL00-103

26 July 2000

Page 3 of 4

### TEST RESULTS

Sound transmission loss values are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages. The precision of the TL test data are within the limits set by the ASTM Standard E90-99.

<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	31	0.20	0	800	53	0.30	2
125	34	0.22	3	1000	55	0.28	1
160	39	0.27	1	1250	59	0.23	0
200	39	0.31	4	1600	61	0.18	0
250	44	0.36	2	2000	62	0.19	0
315	45	0.39	4	2500	62	0.14	0
400	47	0.30	5	3150	60	0.13	0
500	49	0.33	4	4000	57	0.13	0
630	51	0.29	3	5000	57	0.12	0

STC = 53

### ABBREVIATION INDEX

FREQ. = FREQUENCY, HERTZ, (cps)  
T.L. = TRANSMISSION LOSS, dB  
C.L. = UNCERTAINTY IN dB, FOR A 95% CONFIDENCE LIMIT  
DEF. = DEFICIENCIES, dB<STC CONTOUR  
STC = SOUND TRANSMISSION CLASS

Tested by



Dean Victor  
Senior Experimentalist

Written by



Kimberly Scarano  
Secretary

This report shall not be reproduced except in full, without the written approval of RAL.

THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.

ACCREDITED BY DEPARTMENT OF COMMERCE, NATIONAL VOLUNTARY LABORATORY  
ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.  
THE LABORATORY'S ACCREDITATION OR ANY OF ITS TEST REPORTS IN NO WAY CONSTITUTES  
OR IMPLIES PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NIST

NVLAP



# RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE  
GENEVA, ILLINOIS 60134

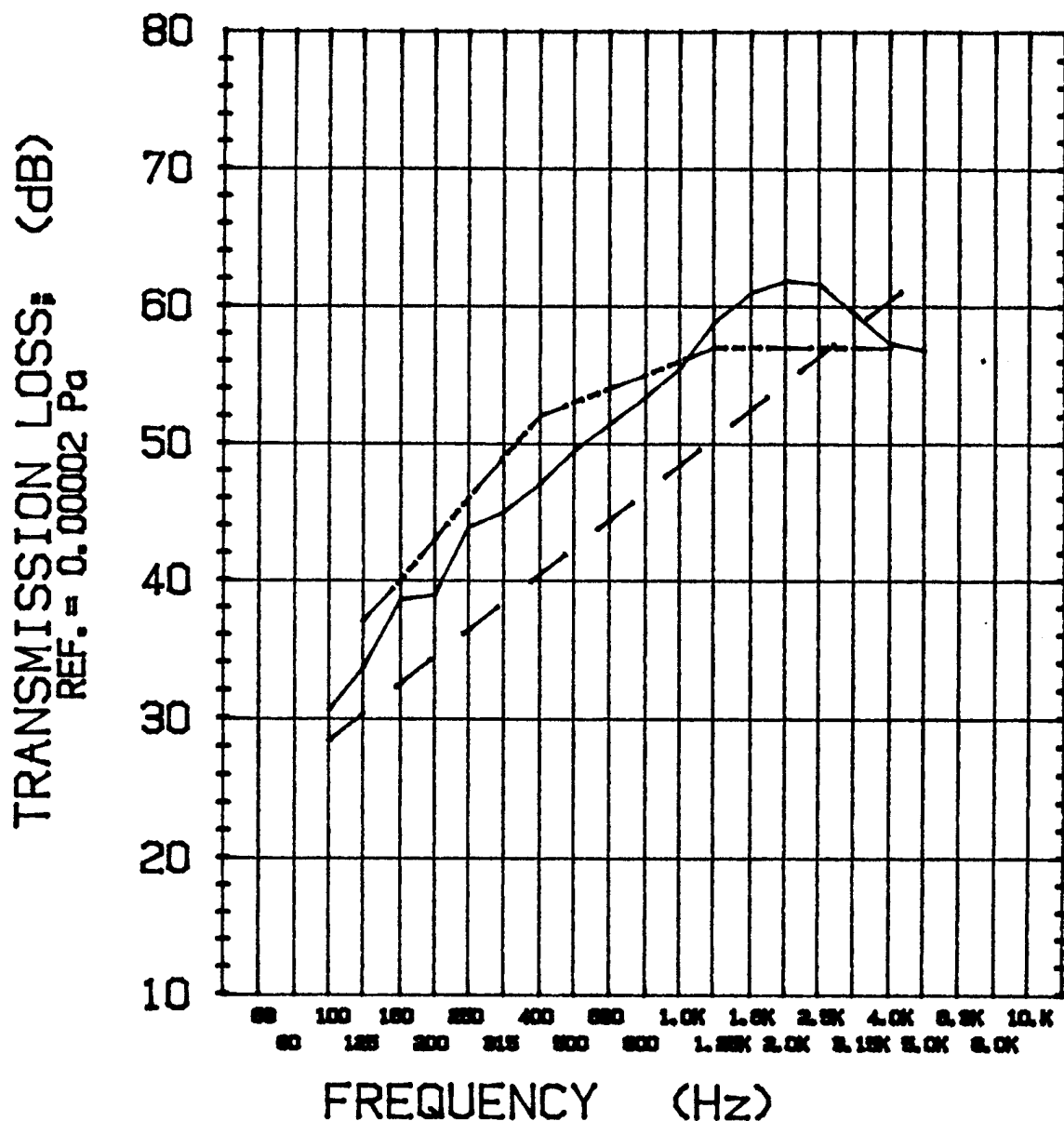
OF  
IIT RESEARCH INSTITUTE

630/232-0104  
FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

## TEST REPORT

### TRANSMISSION LOSS REPORT RAL-TL00-103

PAGE 4 OF 4



- TRANSMISSION LOSS
- - - - SOUND TRANSMISSION CLASS CONTOUR
- . - - MASS LAW CONTOUR

This report shall not be reproduced except in full, without the written approval of RAL.

THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN

ACCREDITED BY DEPARTMENT OF COMMERCE, NATIONAL VOLUNTARY LABORATORY

ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.

THE LABORATORY'S ACCREDITATION OR ANY OF ITS TEST REPORTS IN NO WAY CONSTITUTES

OR IMPLIES PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NIST.

NVLAQ





### **LIMITED WARRANTY**

We, the undersigned, Moderco Inc., do hereby warrant our product:

#### **MOVABLE PARTITION – SIGNATURE 800 SERIES MODEL 841**

Covered on contract \_\_\_\_\_ described as follows:

PROJECT: \_\_\_\_\_

OWNER: \_\_\_\_\_

GENERAL CONTRACTOR: \_\_\_\_\_

The movable partition is guaranteed against warping, buckling, crackling, delaminating for a period of TWO (2) YEARS and the mechanical parts, including track and trolleys, for a period of FIVE (5) YEARS starting from \_\_\_\_\_

THIS LIMITED WARRANTY IS SUBJECT TO THE FOLLOWING:

- The owner is to advise Moderco or its authorized representative in writing of any defect in material or workmanship; this applies provided that the product has been used to serve its intended purpose and provided that said defect is not the result of an abusive use.
- This limited warranty will be void if the product has been modified in any way, shape or form since original installation or repaired by someone other than a Moderco authorized installer.
- This limited warranty does not hold Moderco or its authorized representative responsible for any damage that should occur to the said property or its content.
- Any obligation or liability not specified thereon shall not be considered our responsibility.
- In the event that covered items fail due to defects in workmanship or materials, and the Operation & Maintenance Guide instructions has been followed, MODERCO will, at its discretion, repair or provide replacement parts F.O.B. job site.

DATE: \_\_\_\_\_

AUTHORIZED REPRESENTATIVE: Bryce E. Whitten



**LEED Data Sheet**
**Manufacturer: Moderco Inc.**
**Product: Signature 8000**


Panel Component	Component Material	Component % by weight	Component % by cost	MR 4.1 & 4.2		MR 5.1 & 5.2		
				Post-consumer recycled content (% by weight)	Pre-consumer recycled content (% by weight)	Final Assembly Location	Manufactured / Harvested	Distance (Miles)
Panel Face Substrate	Gypsum board	44.34%	5.42%	5.50%	93.50%	Boucherville, QC (Moderco)	Montreal, QC (CGC)	23
Steel Liner	Steel	27.71%	19.37%	50.60%	33.30%	Boucherville, QC (Moderco)	Hamilton, ON (ArcelorMittal)	395
Panel frame	Aluminum	9.56%	30.52%	10.00%	3.00%	Boucherville, QC (Moderco)	Montreal, QC (Sapa)	23
Track	Aluminum	3.71%	10.04%	10.00%	3.00%	Boucherville, QC (Moderco)	Montreal, QC (Sapa)	23
Acoustical Insulation	Fiberglass	3.69%	3.53%	0.00%	75.00%	Boucherville, QC (Moderco)	Milton, ON (Roxul)	373
Panel Header & Trolley Pipe	Steel	2.64%	4.30%	50.60%	33.30%	Boucherville, QC (Moderco)	Hamilton, ON (ArcelorMittal)	395
Drop Seal	Aluminum	1.07%	3.07%	10.00%	3.00%	Boucherville, QC (Moderco)	Montreal, QC (Sapa)	23
Horizontal Bracing	Steel	0.88%	0.83%	50.60%	33.30%	Boucherville, QC (Moderco)	Hamilton, ON (ArcelorMittal)	395
Panel Finish Adhesive	H.B. Fuller NP2075LT	0.78%	6.46%	0.00%	0.00%	Boucherville, QC (Moderco)	Grand Rapids, MI (H.B. Fuller)	701
Horizontal Sound Seals	PVC	0.69%	1.72%	0.00%	100.00%	Boucherville, QC (Moderco)	Saint-Damien, QC (R.P.M.)	75
Alignment Moulding	PVC	0.63%	2.32%	50.00%	50.00%	Boucherville, QC (Moderco)	Saint-Damien, QC (R.P.M.)	75
Corner Brackets	Steel	0.33%	0.78%	50.60%	33.30%	Boucherville, QC (Moderco)	Hamilton, ON (ArcelorMittal)	395
Trolley	Steel	0.30%	2.66%	50.60%	33.30%	Boucherville, QC (Moderco)	Hamilton, ON (ArcelorMittal)	395
Drop Seal Mechanism	Steel	0.29%	0.92%	50.60%	33.30%	Boucherville, QC (Moderco)	Hamilton, ON (ArcelorMittal)	395
Vertical Sound Seals	PVC	0.25%	0.86%	0.00%	30.00%	Boucherville, QC (Moderco)	Saint-Remi, QC (Polyone)	32
Drop Seal End Caps	Polypropylene Impact Copolymer	0.04%	0.37%	0.00%	100.00%	Boucherville, QC (Moderco)	Philadelphia, PA (Sunoco)	453
<b>Total (not including panel finish)</b>		<b>96.92%</b>	<b>93.17%</b>	<b>20.46%</b>	<b>56.48%</b>	<b>Post-consumer + 1/2 Pre-consumer = 48.70%</b>		

Standard Finishes:

Vinyl Wallcovering	3.08%	6.83%	0.00%	0.00%	Boucherville, QC (Moderco)	Columbus, OH (Koroseal)	729
Fabric Wallcovering	3.08%	6.83%	0.00%	100.00%	Boucherville, QC (Moderco)	Valdese, NC (Hytex)	1006
Acoustical Wallcovering *	3.08%	6.83%	100.00%	0.00%	Boucherville, QC (Moderco)	Valdese, NC (Hytex)	1006

\* Also known as Carpet Wallcovering. Now referred to as Acoustical Wallcovering to avoid confusion with LEED Credit EQ 4.3 where "carpet" refers to a floor treatment system.

2013-01-29



## **MODERCO**

### **Signature 800 Series**

### **Operable Partition References**

**NWAP has been in the operable partition sales/installation/service business for over 20 years.**

**Luther Memorial Lutheran Church**

13047 Greenwood Avenue North  
Seattle WA 98133

**Contractor:** Walsh Construction

Phone: 206.547.4008

**Architect:** GGLO Design

Phone: 206.467.5828

Completed May, 2019

**W Hotel**

1112 Fourth Avenue  
Seattle WA 98101

**Contractor:** Level Builders

Phone: 425.413.1000

**Architect:** Axis/GFA Architecture

Phone: 415.371.1400

Completed September, 2019

**TwinStar Credit Union TI**

4501 Intelco Loop Southeast  
Lacey WA 98503

**Contractor:** Merit Construction NW

Phone: 253.588.9100

**Architect:** Jon Graves Architect

Phone: 253.272.4214

Completed December, 2018

**Silver Cloud Hotel**

1202 North Orchard Street  
Tacoma WA 98406

**Contractor:** Owner-Directed

Phone: 206.526.5200

**Architect:** n/a

Completed January, 2019

**WA County Public Safety Center**

600 Southwest Walnut Street  
Hillsboro OR 97123

**Contractor:** Corp, Inc.

Phone: 503.371.2453

**Architect:** Scott|Edwards Architecture

Phone: 253.226.3617

Completed March, 2019

**Tata Consultancy TI**

14475 NE 24<sup>th</sup> St  
Bellevue WA 98007

**Contractor:** DP, Inc

Phone: 206.361.2989

**Architect:** JCP Architecture

Phone: 425.641.9200

Completed June, 2019

**This page is provided for your information only. Please feel free to contact our references, but do not publish this information in project addenda as we wish to respect our customers' privacy.**





## SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: \_\_\_\_\_ Substitution Request Number: \_\_\_\_\_  
\_\_\_\_\_  
From: \_\_\_\_\_  
To: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_  
A/E Project Number: \_\_\_\_\_  
Re: \_\_\_\_\_ Contract For: \_\_\_\_\_

Specification Title: \_\_\_\_\_ Description: \_\_\_\_\_  
Section: \_\_\_\_\_ Page: \_\_\_\_\_ Article/Paragraph: \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_  
Manufacturer: \_\_\_\_\_ Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
Trade Name: \_\_\_\_\_ Model No.: \_\_\_\_\_

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: \_\_\_\_\_  
Signed by: \_\_\_\_\_  
Firm: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_\_

### A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution rejected - Use specified materials.  
☐ Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_

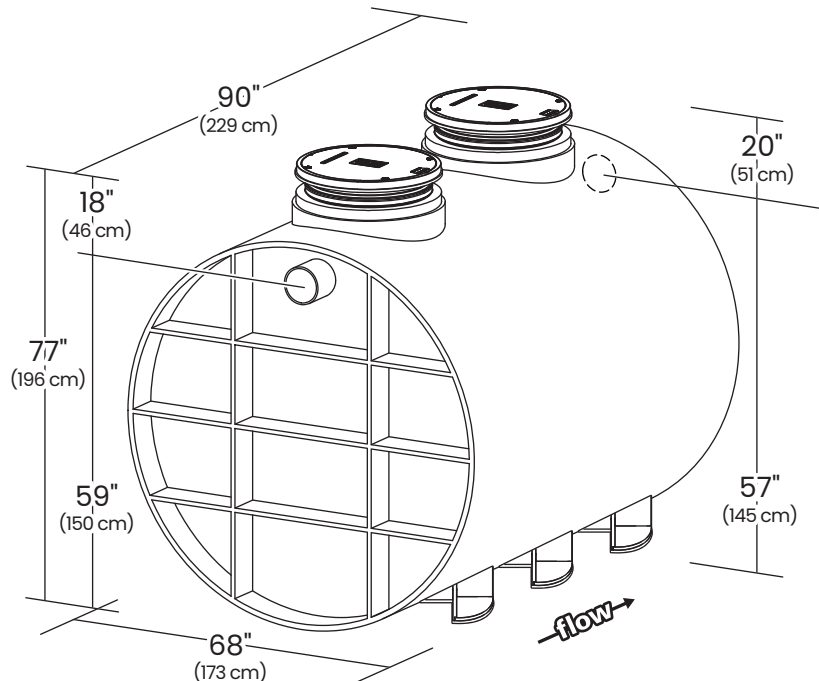
Date: \_\_\_\_\_

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ \_\_\_\_\_



# SPECIFICATION AND SUBMITTAL

## GGI-1000 1000 Gallon Gravity Grease Interceptor for Indoor/Outdoor Use



This unit is certified to ANSI Z1001-2016

## SUBMITTAL

### Standard

**Location:** indoor/outdoor

**Installation:** below grade only

**Flow Rate / Grease Capacity:**

100 GPM (6.3 L/s) / 6,547 lbs. (2,969.7 kg)

200 GPM (12.6 L/s) / 4,451 lbs. (2,018.9 kg)

**Solids Capacity:** 103 gal. (389.9 L)

**Liquid Capacity:** 1,010 gal. (3,823.3 L)

**Weight:** 1,516 lbs. (687.6 kg)

**Connections:** 6" (150 mm) plain end inlet/outlet

**Cover:** gas/water tight pickable cast iron with H20 lb. load rating

### Options

- ☐ 6" (150 mm) MPT inlet/outlet (stainless steel, straight-through)
- ☐ 4" (100 mm) plain end inlet/outlet
- ☐ **C24H2:** Highway rated bolted composite covers - 16,000 lbs.
- ☐ **CC2:** integral membrane clamping collar kit
- ☐ **AK3:** High Water Anchor Kit

### Field Cut Risers

- ☐ **FCR2** (x2) >4" - 34"
- ☐ **FCR2** (x4) >34" - 64"
- ☐ **FCR2** (x6) >64" - 94"

## Approval

Signature:	Date:	Company:
Specifying Engineer:	Engineering Firm:	



**SCHIER**  
LIFETIME GUARANTEED  
GREASE INTERCEPTORS

**MODEL NUMBER:**  
GGI-1000

**DESCRIPTION:** Polyethylene Gravity Grease Interceptor - 100/200 GPM - 1,010 gallon capacity

PART #: 4360-002-05

DWG BY: B. Karrer

DATE: 1/10/2020

REV: 1 5/8/2019

ECO:





# SPECIAL PRECAUTIONS

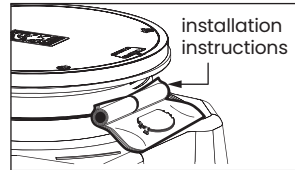
For Schier Grease Interceptor Installations – Failure to follow this guidance voids your warranty

**⚠ WARNING!** DO NOT AIR TEST UNIT OR RISER SYSTEM!  
Doing so may result in property damage, personal injury or death.

**⚠ CAUTION!** Do not install this unit in any manner except as described in these instructions.

## Installation Instructions

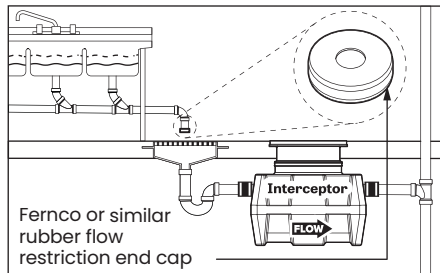
Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.



## When Installing Interceptor Inside

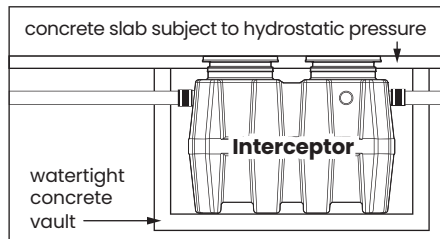
If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain.

See drawing for guidance. For detailed guidance on indirect connections, go to: [webtools.schierproducts.com/Technical\\_Data/Indirect\\_Connections.pdf](http://webtools.schierproducts.com/Technical_Data/Indirect_Connections.pdf)

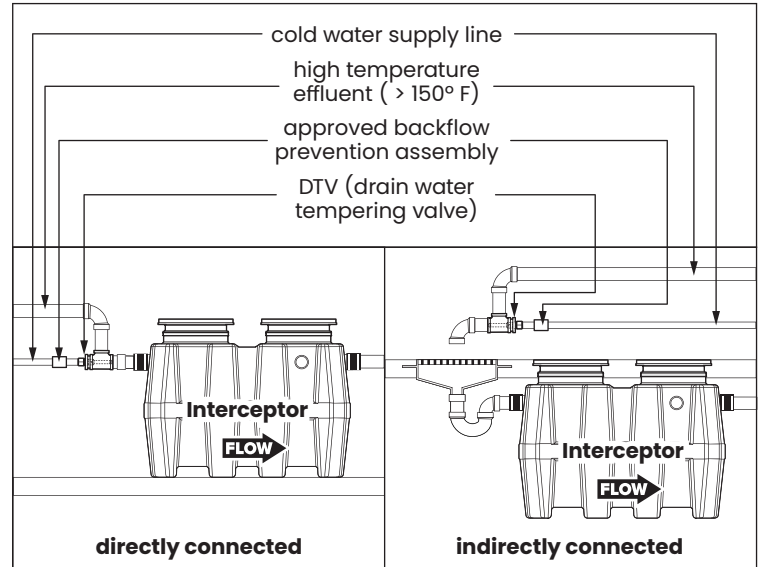


## Hydrostatic Slabs (or Pressure Slabs)

When installed under a hydrostatic slab (slab designed to withstand upward lift, usually caused by hydrostatic pressure) interceptor must be enclosed in a watertight concrete vault.



## High Temperature Kitchen Water



If water is entering the interceptor at excessive temperature (over 150° F), a drain water tempering valve (DTV) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 150° F being discharged into the sanitary sewer. Water above 150° F will weaken or deform PVC Schedule 40 pipe, poly drainage fixtures like interceptors and erode the coating of cast iron (leading to eventual failure).



**SCHIER**  
LIFETIME GUARANTEED  
GREASE INTERCEPTORS

MODEL NUMBER:  
**GGI-1000**

DESCRIPTION: Polyethylene Gravity Grease Interceptor – 100/200 GPM – 1,010 gallon capacity

PART #: 4360-002-05

DWG BY: B. Karrer

DATE: 1/10/2020

REV: 15/8/2019

ECO:



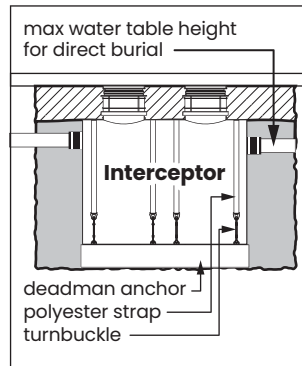


# SPECIAL PRECAUTIONS

For Schier Grease Interceptor Installations – Failure to follow this guidance voids your warranty

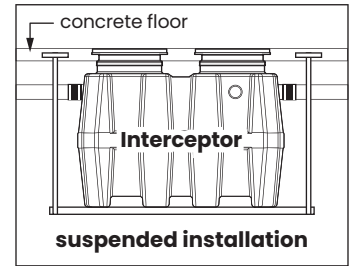
## High Water Table Installations

Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and risers in a water-tight concrete vault or backfill with concrete or flowable fill (wet concrete and flowable backfill should be poured in stages to avoid crushing the interceptor). At risk areas include but are not limited to tidal surge areas, floodplains and areas that receive storm water. Great Basin™ models that are direct buried in high water table scenarios must be installed with an anchor kit. Models GB-50, GB-75, and GB-250 use model AK1 anchor kit. Model GB-500 uses model AK2 anchor kit for use with deadmen anchors. Models GB-1000, GGI-750 and GGI-1500 use model AK3 anchor kit for use with deadmen anchors.



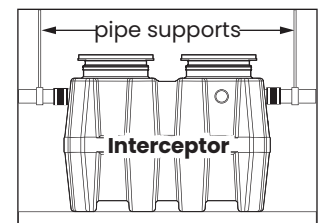
## Fully Support Base of Unit

Install unit on solid, level surface in contact with the entire footprint of unit base; for suspended installations design trapeze to support the wet weight of the unit. Do not partially support unit or suspend unit using metal U-channel to create a trapeze.



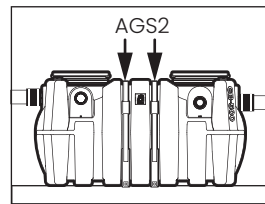
## Support Inlet and Outlet Piping

For above grade installations ensure heavy inlet and outlet piping (such as cast iron or long runs) is properly supported or suspended during the entire installation process to prevent connection failure or damage to bulkhead fittings.

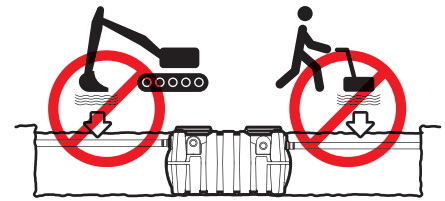


## Above Grade Installation Support (for Model GB-500 Only)

The wet weight of the interceptor combined with high temperature kitchen water creates the potential for tank deformation when installed above grade. Model GB-500 installed above grade must be installed with Above Grade Support Kit model AGS2 to maintain structural integrity



**DO NOT  
COMPACT  
BACKFILL**



**SCHIER**  
LIFETIME GUARANTEED  
GREASE INTERCEPTORS

MODEL NUMBER:  
**GGI-1000**

DESCRIPTION: Polyethylene Gravity Grease Interceptor – 100/200 GPM – 1,010 gallon capacity

PART #: 4360-002-05

DWG BY: B. Karrer

DATE: 1/10/2020

REV: 15/8/2019

ECO:



# SPECIFICATIONS

## NOTES

1. 6" plain end SCH. 40 inlet/outlet
2. Unit weight - w/composite covers: 1,400 lbs.;  
w/cast iron covers: 1,516 lbs.
3. Maximum operating temperature:  
150° F continuous
4. Capacities  
Liquid: 1,010 gal.;  
Grease (Factory Rating):  
6,547 lbs. @ 100 GPM / 4,451 lbs. @ 200 GPM;  
Solids: 103 gal.

## ENGINEER SPECIFICATION GUIDE

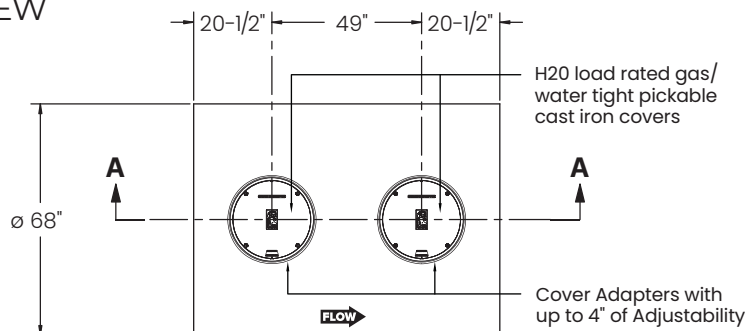
Schier Big Foot™ grease interceptor model # GGI-1000 shall be lifetime guaranteed and made in USA of seamless, molded polyethylene with minimum 3/4" uniform wall thickness. Interceptor shall be furnished for below grade installation with field adjustable riser system. Interceptor flow rate shall be 100 or 200 GPM. Interceptor grease capacity shall be 6,547 lbs. @ 100 GPM or 4,451 lbs. @ 200 GPM. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

## CERTIFIED DESIGN STANDARD

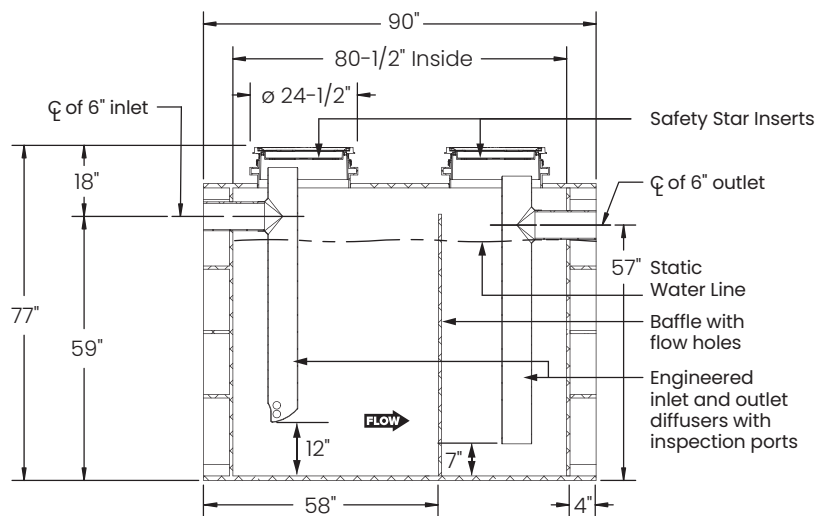
Big Foot™ gravity grease interceptors are third party tested and listed by IAPMO to ANSI Z1001-2016 grease interceptor standards. They are compliant to the Uniform Plumbing Code.



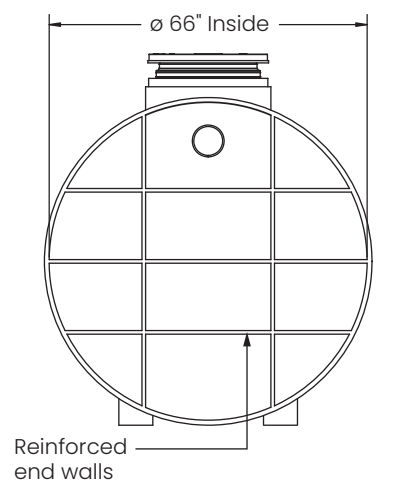
### TOP VIEW



### SECTION A-A



### OUTLET END VIEW



**SCHIER**  
LIFETIME GUARANTEED  
GREASE INTERCEPTORS

MODEL NUMBER:  
**GGI-1000**

DESCRIPTION: Polyethylene Gravity Grease Interceptor -  
100/200 GPM - 1,010 gallon capacity

PART #: 4360-002-05

DWG BY: B. Karrer

DATE: 1/10/2020

REV: 1 5/8/2019

ECO:



# SCHIER

## Lifetime Guarantee

Effective January 1st 2018 Schier Products represents and warrants that all grease interceptor products ("Products") will be free from any and all defects in material and workmanship during the lifetime of the plumbing system in which the Products were originally installed and will, at its option, agree to repair, replace, or supply credit to the original purchaser.

This warranty does not cover wear and tear, extreme temperatures or pH levels, nor does it cover damage from naturally occurring phenomenon, including, but not limited to UV, freeze-related damage, or natural disasters. If the Products are warehoused without cover from the elements (direct sun, rain, sleet, snow, windblown gravel dust or sand) or are susceptible to damage from regular business traffic (passing forklifts and vehicles) this warranty will be null and void and the Products will not be considered for return. This warranty does not cover the purchaser's cost for parts required in routine maintenance. This warranty shall be effective if, and only if, the Products were:

- a. installed in accordance with Schier Product's notes, specifications and instructions, for installation, operation and maintenance;
- b. installed in conformance with all applicable building and plumbing codes and passed all applicable testing methods immediately following installation;
- c. not subjected to misuse or abuse, whether negligent or intentional;
- d. never modified, repaired or altered by any individual(s) not authorized by Schier Products;
- e. installed by a licensed plumber.

This warranty is the purchaser's sole and exclusive remedy, and acceptance of this exclusive remedy is a condition of the purchase of these Products. In no event shall Schier Products be liable for any incidental, special, consequential or punitive damages, or for any costs, attorney fees, expenses, losses or delays claimed to be as a consequence of any damage to, failure of, or defect in any products including, but not limited to, any claims for loss of profits, transportation, removal and installation charges. This warranty is exclusive and in lieu of all other warranties or conditions, written or oral, expressed or implied.

---

LIFETIME GUARANTEED  
GREASE INTERCEPTORS



# SCHIER



# Chehalis Tribe Elders Center Project

## SUBSTITUTION REQUEST FORM

To: Architect: ARC Architects

We hereby submit for consideration the following product instead of specified item for above project:

Section 26 32 33 Paragraph 1.3 Specified Item Emergency Engine Generator

Proposed Substitution: Generac Power Systems for the generator and transfer switch.

Attachments: (If not applicable, write N/A left of item number.) Submittal documents and tank drawing.

- No. 1: Complete product data.
- No. 2: Drawings showing dimensional changes and other change to drawings.
- No. 3: Complete description of all changes to specifications.

Undersigned attests function and quality equivalent or superior to specified item.

Submitted by: (Person and Firm) Kerry Nicolaus, Energy Systems

Date 6/8/2021 Phone (209) 479-0413 Signature Kerry Nicolaus

Acceptance by Architect:

By:	Accepted
Date:	Accepted as Noted
Remarks:	Not Accepted





# Transmittal

Sea-Tac Lighting & Controls, LLC  
 15455 53rd Ave S  
 Tukwila WA 98188  
 Phone: (206) 575-6865  
**From: Samantha Nyblod**

**Project** The Chehalis Tribe Chehalis Elder Center  
**Quote#** SEATAC-WWA21-113425  
**Location**

Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- |                                   |  |        |
|-----------------------------------|--|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications        | Other: |
| <input type="checkbox"/> Prints   | <input type="checkbox"/> Information           |        |
| <input type="checkbox"/> Plans    | <input checked="" type="checkbox"/> Submittals |        |

THESE ARE TRANSMITTED FOR:

- |  |   |                                 |
|--|---|---------------------------------|
| <input checked="" type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval                  | <input type="checkbox"/> Corrections              | Bids due on:                    |
| <input type="checkbox"/> Approval as Submitted     | <input type="checkbox"/> Your Use                 | Other:                          |
| <input type="checkbox"/> Approval as Noted         | <input type="checkbox"/> Review and Comment       |                                 |

Type	MFG	Part
B1	McGraw-Edison	BRT6AX-730-U-TX-42-FINISH
B2	Design Plan	601712P-30K-FINISH
P1	McGraw-Edison	GLEON-SAX-X-730-U-TX-FINISH
P1-OPT 2	Visionaire Lighting, LLC	VLX-1-TX-XXL-3K-UNV-AM-FINISH
P1-OPT 3	Visionaire Lighting, LLC	VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH
P1-POLE	United Lighting Standards	RSA-5203-FINISH
P2	McGraw-Edison	GLEON-SAX-X-730-U-TX-FINISH
P2-OPT-2	Visionaire Lighting, LLC	VLX-1-TX-XXL-3K-UNV-AM-FINISH
P2-OPT 3	Visionaire Lighting, LLC	VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH
P2-POLE	United Lighting Standards	RSA-5203-FINISH
PL-1	Pinnacle Arch. Lighting Inc.	EX3WET-N-CL830746LM-4'-IND-PPXX-U-OL2-1-0-FINISH
PL-3	FC Lighting	FCC800-15-SPM-LENGTH-UNV-830-25L-FINISH-40-LD-N/A
RL-3	Portfolio	LD4B20D010 EU4B10208030 4LB(X)1H
RL-4	Portfolio	LD2B(X)D010 EU2B(XX)8030 2LBD1(X)
WL-1	McGraw-Edison	IST-SA1-X-730-U-T3-FINISH



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

BRT6AX-730-U-TX-42-FINISH

Notes:

**Type:****B1**

SEATAC-WWA21-113425

Project		Catalog #		Type	
Prepared by		Notes		Date	



## McGraw-Edison

### BRT6 Bollard

#### Round LED Pedestrian Luminaire

**Typical Applications**

Outdoor • Walkway • Perimeter • Landscapes • Hardscapes

#### Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Optical Distributions [page 2](#)
- Energy and Performance Data [page 3](#)

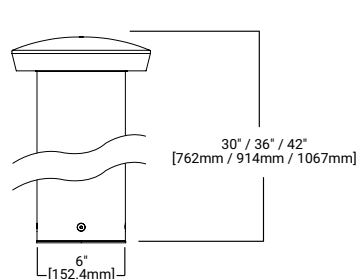
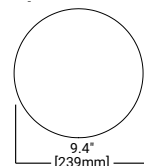
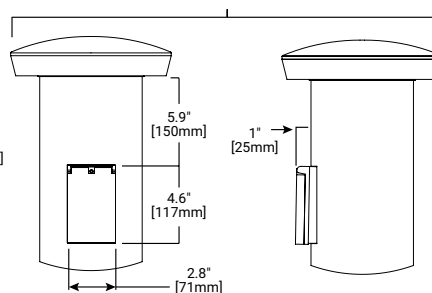
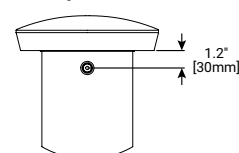
#### Product Certifications



#### Quick Facts

- 4 Optical Distributions
- Available in 30", 36", and 42"
- Lumen packages range from 560 - 4400 (5W - 49W)
- Efficacy up to 122 lumens per watt
- **Zero uplight on all configurations**

#### Dimensional Details

**Side View****Top View****GFI Option****CBP Option**

Height	Weight
30"	7.2lb (3.3kg)
36"	8.7lb (4.0kg)
42"	10.3lb (4.7kg)

\* Base model without options or controls



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

BRT6AX-730-U-TX-42-FINISH

**Type:****B1**

Notes:

SEATAC-WWA21-113425

**McGraw-Edison****BRT6 Bollard****Ordering Information**

SAMPLE NUMBER: BRT6-A3-740-U-T4-36-GM

**CONFIRM  
FINISH**

Product Family	Configuration <sup>1</sup>	Color Temperature	Voltage	Distribution	Height	Finish
BRT6=Bollard, 6" Round Base	A1=1000lm Nominal <sup>11</sup> A2=2000lm Nominal A3=3000lm Nominal A4=4000lm Nominal <div>CONFIRM OUTPUT</div>	727=70CRI, 2700K 730=70CRI, 3000K 740=70CRI, 4000K 750=70CRI, 5000K 830=80CRI, 3000K AMB=Amber, 590nm <sup>2</sup>	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>5</sup> 9=347V	T3=Path Asymmetric T4=Wide Path Asymmetric T5=Type V Symmetric T5S=Type V Square Symmetric <div>CONFIRM DISTRIBUTION</div>	30=30" 36=36" 42=42"	AP=Gray BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)			Accessories (Order Separately)	
DIM=External 0-10V Dimming Leads <sup>4,7</sup> F=Single Fuse (120, 277 or 347V Specify Voltage) FF=Double Fuse (208, 240 or 480V Specify Voltage) CC=Coastal Construction <sup>3</sup> HA=50°C High Ambient 20K=20KV UL 1449 fused surge protective device CBP=Battery Pack, Cold Weather Rated <sup>9,12</sup> DALI=DALI Driver <sup>4,11</sup> LAB=Less Anchor Bolts & Template <sup>6</sup> GFI=GFCI Outlet <sup>8</sup>		BPC=Button Type Photocontrol <sup>10</sup>			BRT6ANCHOR=Anchor bolt kit and template <sup>6</sup>	
<b>NOTES:</b> 1. Nominal output based on symmetric distributions at 4000K CCT. See lumen table and IES files for details. 2. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Available with configuration A1 only. 3. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 4. Not available with other controls options 5. 480V must utilize Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems.) 6. Bollard ships with anchor bolts and template included, unless LAB is specified, in which case the BRT6ANCHOR accessory must be ordered separately. 7. Low voltage control leads brought out 18" from fixture 8. GFCI 125-Volt duplex tamper-proof outlet rated for 15A. Available in 120V only. 9. Operates at -20°C to +40°C. Not available with HA option. 6W initial output. 16.2Wh capacity. 10. Not available with "U" voltage, must specify voltage. 11. Available in 120V only. 12. Specify 120V or 277V.						

**Product Specifications****Construction**

- Extruded aluminum housing with cast base and top
- Patent-pending base plate design offers superior rigidity
- 3G vibration rated
- IK10 impact rating for housing and optic assembly

**Optics**

- High-efficiency injection-molded AccuLED optics technology
- 4 optical distributions; 2 symmetric and 2 asymmetric
- IDA Certified (3000K CCT and warmer only)

**Electrical**

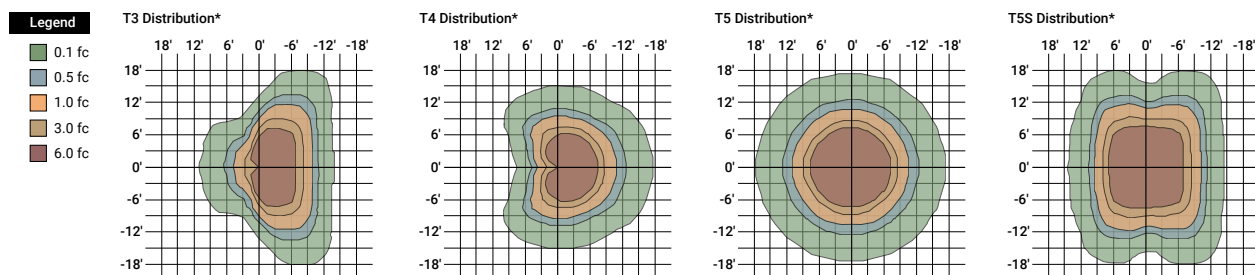
- Standard with 0-10V dimming
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- 10kV surge module standard

**Finish**

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

**Warranty**

- Five year warranty

**Optical Distributions**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

BRT6AX-730-U-TX-42-FINISH

Notes:

**Type:****B1**

SEATAC-WWA21-113425

**McGraw-Edison****BRT6 Bollard****Energy and Performance Data****CONFIRM DISTRIBUTION AND OUTPUTS****Asymmetric Power and Lumens**

Optics			Configuration			
			A1	A2	A3	A4
4000K / 5000K CCT, 70 CRI	T3	Wattage	5	11	17	22
		Lumens	537	1075	1627	1961
		BUG Rating	B0-U0-G0	B0-U0-G1	B0-U0-G1	B0-U0-G1
		Lumens per Watt	99	99	94	91
	T4	Wattage	5	10	15	21
		Lumens	559	1101	1616	2193
		BUG Rating	B0-U0-G0	B0-U0-G1	B1-U0-G1	B1-U0-G1
		Lumens per Watt	110	115	110	104
3000K CCT, 70 CRI	T3	Wattage	5	11	17	22
		Lumens	489	979	1482	1786
		BUG Rating	B0-U0-G0	B0-U0-G1	B0-U0-G1	B0-U0-G1
		Lumens per Watt	99	99	94	91
	T4	Wattage	5	10	15	21
		Lumens	509	1003	1472	1997
		BUG Rating	B0-U0-G0	B0-U0-G1	B1-U0-G1	B1-U0-G1
		Lumens per Watt	110	115	110	104
3000K CCT, 80 CRI	T3	Wattage	5	11	17	22
		Lumens	427	854	1293	1558
		BUG Rating	B0-U0-G0	B0-U0-G1	B0-U0-G1	B0-U0-G1
		Lumens per Watt	99	99	94	91
	T4	Wattage	5	10	15	21
		Lumens	444	875	1284	1743
		BUG Rating	B0-U0-G0	B0-U0-G1	B1-U0-G1	B1-U0-G1
		Lumens per Watt	110	115	110	104
2700K CCT, 70 CRI	T3	Wattage	5	11	17	22
		Lumens	449	899	1361	1640
		BUG Rating	B0-U0-G0	B0-U0-G1	B0-U0-G1	B0-U0-G1
		Lumens per Watt	99	99	94	91
	T4	Wattage	5	10	15	21
		Lumens	467	921	1351	1834
		BUG Rating	B0-U0-G0	B0-U0-G1	B1-U0-G1	B1-U0-G1
		Lumens per Watt	110	115	110	104
AMB 590nm	T3	Wattage	13	--	--	--
		Lumens	457	--	--	--
		BUG Rating	B0-U0-G0	--	--	--
		Lumens per Watt	34	--	--	--
	T4	Wattage	11	--	--	--
		Lumens	352	--	--	--
		BUG Rating	B0-U0-G0	--	--	--
		Lumens per Watt	32	--	--	--

**Symmetric Power and Lumens**

Optics			Configuration			
			A1	A2	A3	A4
4000K / 5000K CCT, 70 CRI	T5	Wattage	9	18	29	42
		Lumens	1149	2210	3244	4401
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	122	120	111	105
	T5S	Wattage	10	21	35	49
		Lumens	1125	2230	3338	4367
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	110	107	97	89
3000K CCT, 70 CRI	T5	Wattage	9	18	29	42
		Lumens	1046	2013	2954	4008
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	122	120	111	105
	T5S	Wattage	10	21	35	49
		Lumens	1025	2031	3040	3977
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	110	107	97	89
3000K CCT, 80 CRI	T5	Wattage	9	18	29	42
		Lumens	913	1757	2578	3497
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	122	120	111	105
	T5S	Wattage	10	21	35	49
		Lumens	894	1772	2653	3470
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	110	107	97	89
2700K CCT, 70 CRI	T5	Wattage	9	18	29	42
		Lumens	960	1848	2712	3680
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	122	120	111	105
	T5S	Wattage	10	21	35	49
		Lumens	941	1865	2791	3652
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	110	107	97	89
AMB 590nm	T5	Wattage	21	--	--	--
		Lumens	575	--	--	--
		BUG Rating	B0-U0-G0	--	--	--
		Lumens per Watt	28	--	--	--
	T5S	Wattage	25	--	--	--
		Lumens	676	--	--	--
		BUG Rating	B1-U0-G0	--	--	--
		Lumens per Watt	27	--	--	--



## McGraw-Edison

## BRT6 Bollard

### Energy and Performance Data

#### Asymmetric Input Current (mA)

Optics		Configuration			
		A1	A2	A3	A4
T3	Wattage	47	97	152	190
	Lumens	--	59	89	110
	BUG Rating	--	52	78	97
	Lumens per Watt	--	48	70	85
	Wattage	--	40	59	72
	Lumens	--	29	43	53
T4	Wattage	44	84	128	183
	Lumens	--	52	75	105
	BUG Rating	--	47	66	92
	Lumens per Watt	--	44	59	81
	Wattage	--	35	49	68
	Lumens	--	25	36	50

#### Symmetric Input Current (mA)

Optics		Configuration			
		A1	A2	A3	A4
T5	Wattage	81	159	257	373
	Lumens	--	93	146	209
	BUG Rating	--	82	128	183
	Lumens per Watt	--	73	113	159
	Wattage	--	65	96	148
	Lumens	--	48	70	108
T5S	Wattage	90	185	314	454
	Lumens	--	107	177	251
	BUG Rating	--	94	155	219
	Lumens per Watt	--	83	135	190
	Wattage	--	69	114	172
	Lumens	--	51	82	125

#### Lumen Maintenance (TM-21)

Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
25°C	95.9%	92.9%	91.7%	87.1%	271,000
40°C	95.7%	92.5%	91.3%	86.5%	256,000
50°C	95.3%	91.9%	90.6%	85.7%	242,000

\* Supported by IES TM-21 standards

\*\*Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

[View BRT6 IES files](#)



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

601712P-30K-FINISH

Notes:

**Type:****B2**

SEATAC-WWA21-113425

# SECTOR 1000

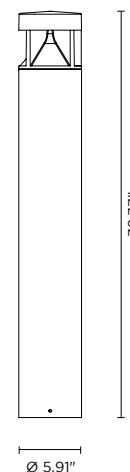
**designplan**

datasheet

Sector 1000 is a 39.4" height round bollard for outdoor surface installation with the option of 1 to 4 light windows: 90°, 180° (or 90° + 90°), 270°, 360°. It is available in 2 color temperatures and 2 standard finishes.



Fixture Dimensions

**TECHNICAL DATA**

<b>Wattage / Input</b>	6W, 12W, 18W, 24W (120VAC)
<b>Power Supply</b>	Integral (0-10V Dimming)
<b>Construction</b>	Body: Extruded Copper-Free Aluminum Lens: Opaline Tempered Glass Cable Length: 3.28'
<b>CCT</b>	3000K, 4000K
<b>BUG Rating</b>	B0-U2-G1 (6W, 3000K) B0-U3-G1 (24W, 3000K)
<b>Delivered Lumens</b>	553 lm (6W, 3000K) 1067 lm (12W, 3000K) 1600 lm (18W, 3000K) 2134 lm (24W, 3000K)
<b>Efficacy</b>	92.2 lm/W (6W, 3000K) 88.9 lm/W (12W, 18W, 24W, 3000K)
<b>Optics</b>	90°, 180° (or 90° + 90°), 270°, 360°
<b>Finishes</b>	Textured Gray, Anthracite Gray, Matte Black (on request)
<b>Fixture Dimensions</b>	Ø5.91" x 39.37"
<b>LED Source</b>	1 x CREEXHP70 LED
<b>Fixture Weight</b>	17.64 lbs
<b>IP Rating</b>	IP66
<b>IK Rating</b>	IK10

**ORDERING INFORMATION**

Example: 601711P-30K-AG. Accessories ordered separately.

<div> <div></div> <div>-</div> <div></div> <div>-</div> <div></div> </div>		
<b>Model No.</b> 601709P (6W, 90°) 601710P (12W, 180° or 90°x90°) 601711P (18W, 270°) <b>601712P (24W, 360°)</b>	<b>CCT</b> <b>30K - 3000K</b> 40K - 4000K	<b>Finish</b> TG - Textured Gray AG - Anthracite Gray MB - Matte Black (on request) <div style="border: 2px solid red; padding: 5px; display: inline-block;"> <b>CONFIRM FINISH</b> </div>

Job Name/Date:

Fixture Type Designation:

sales@designplan.com  
[www.designplan.com](http://www.designplan.com)

79 Trenton Avenue, Frenchtown NJ 08825

© Copyright 2019 Designplan Lighting, Inc.  
 Published: February 16, 2021

P: 908-996-7710

F: 908-996-7042

1 of 2



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

601712P-30K-FINISH

Notes:

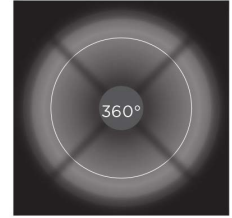
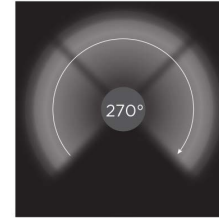
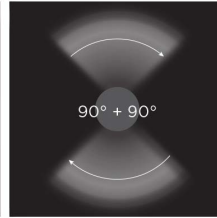
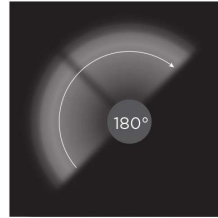
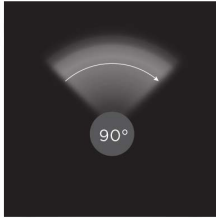
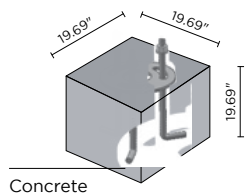
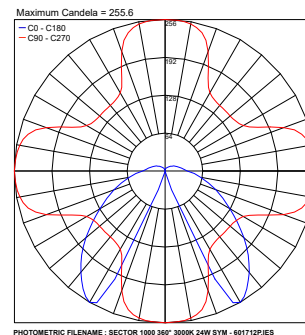
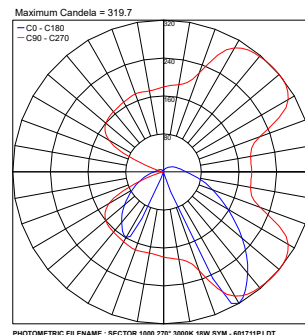
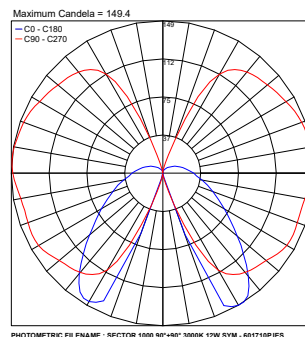
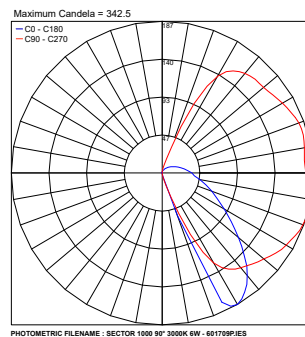
**Type:****B2**

SEATAC-WWA21-113425

# SECTOR 1000

**designplan**

datasheet

**LIGHT DISTRIBUTIONS****ACCESSORIES - Installation****AC053P**  
Base Plate**PHOTOMETRIC DATA***Note: all photometry is 3000K*

Job Name/Date:

Fixture Type Designation:

[sales@designplan.com](mailto:sales@designplan.com)  
[www.designplan.com](http://www.designplan.com)

**79 Trenton Avenue, Frenchtown NJ 08825**  
 © Copyright 2019 Designplan Lighting, Inc.  
 Published: February 16, 2021

**P: 908-996-7710**  
**F: 908-996-7042**  
 2 of 2



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

GLEON-SAX-X-730-U-TX-FINISH

Notes:

**Type:****P1**

SEATAC-WWA21-113425

Project		Catalog #		Type	
Prepared by		Notes		Date	



## McGraw-Edison

### GLEON Galleon

#### Area / Site Luminaire

**Typical Applications**

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

#### Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Distributions [page 4](#)
- Product Specifications [page 4](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 9](#)

#### Product Certifications



#### Product Features



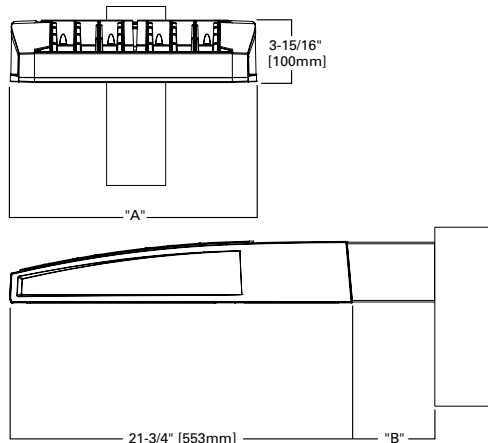
#### Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

#### Connected Systems

- WaveLinx
- Enlighted

#### Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length <sup>1</sup>	"B" Quick Mount Arm Length	"B" Quick Mount Extended Arm Length
1-4	15-1/2"	7"	10"	10-5/8"	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	--
9-10	33-3/4"	7"	16"	--	--

**NOTES:**  
For arm selection requirements and additional line art, see Mounting Details section.



Submitted by Sea-Tac Lighting & Controls, LLC	<b>Job Name:</b> The Chehalis Tribe Chehalis Elder Center	<b>Catalog Number:</b> GLEON-SAX-X-730-U-TX-FINISH	<b>Type:</b> P1
		Notes:	SEATAC-WWA21-113425

# McGraw-Edison GLEON Galleon

## Ordering Information

SAMPLE NUMBER: GLEON-SA4C-740-U-T4FT-GM

CONFIRM  
DISTRIBUTION

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GLEON-Galleon	SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares SA5=5 Squares <sup>4</sup> SA6=6 Squares SA7=7 Squares <sup>5</sup> SA8=8 Squares <sup>5</sup> SA9=9 Squares <sup>5</sup> SA10=10 Squares <sup>6</sup>	A=600mA B=800mA C=1000mA <sup>16</sup> D=1200mA	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm <sup>14,16</sup>	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>7,8</sup> 9=347V <sup>7</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>9</sup> MA=Mast Arm Adapter <sup>10</sup> WM=Wall Mount QM=Quick Mount Arm (Standard Length) <sup>11</sup> QMEA=Quick Mount Arm (Extended Length) <sup>12</sup>	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White

CONFIRM  
OUTPUT

CONFIRM  
FINISH

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately)
<b>DIM</b> =External 0-10V Dimming Leads <sup>15,20</sup> <b>F</b> =Single Fuse (120, 277 or 347V Specify Voltage) <b>FF</b> =Double Fuse (208, 240 or 480V Specify Voltage) <b>20K</b> =Series 20KV UL 1449 Surge Protective Device <b>2L</b> =Two Circuits <sup>17,18</sup> <b>HA</b> =50°C High Ambient <b>HSS</b> =Installed House Side Shield <sup>28</sup> <b>GRSBK</b> =Glare Reducing Shield, Black <sup>23</sup> <b>GRSWH</b> =Glare Reducing Shield, White <sup>23</sup> <b>LCF</b> =Light Square Trim Painted to Match Housing <sup>27</sup> <b>MT</b> =Installed Mesh Top <b>TH</b> =Tool-less Door Hardware <b>CC</b> =Coastal Construction finish <sup>3</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>CE</b> =CE Marking <sup>29</sup> <b>AHD145</b> =After Hours Dim, 5 Hours <sup>22</sup> <b>AHD245</b> =After Hours Dim, 6 Hours <sup>22</sup> <b>AHD255</b> =After Hours Dim, 7 Hours <sup>22</sup> <b>AHD355</b> =After Hours Dim, 8 Hours <sup>22</sup> <b>DALI</b> =DALI Drivers	<b>BPC</b> =Button Type Photocontrol <b>PR</b> =NEMA 3-PIN Photocontrol Receptacle <b>PR7</b> =NEMA 7-PIN Photocontrol Receptacle <sup>21</sup> <b>SPB2</b> =Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting <sup>34</sup> <b>SPB4</b> =Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting <sup>34</sup> <b>MS-L20</b> =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>24</sup> <b>MS-L40W</b> =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>24</sup> <b>MS/X-L20</b> =Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>24,25</sup> <b>MS/X-L40W</b> =Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>24,25</sup> <b>MS/DIM-L20</b> =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>24</sup> <b>MS/DIM-L40W</b> =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>24</sup> <b>ZD</b> =WaveLinX Module and 4-PIN Receptacle <b>SWPD4XX</b> =WaveLinX Sensor Only, 7'-15' <sup>13,32,33</sup> <b>SWPD5XX</b> =WaveLinX Sensor Only, 15'-40' <sup>13,32,33</sup> <b>WOBXX</b> =WaveLinX Sensor with Bluetooth, 7'-15' <sup>13,32</sup> <b>WOFXX</b> =WaveLinX Sensor with Bluetooth, 15'-40' <sup>13,32</sup> <b>LWR-LW</b> =Enlightened Sensor, 8' - 16' Mounting Height <sup>26</sup> <b>LWR-LN</b> =Enlightened Sensor, 16' - 40' Mounting Height <sup>26</sup> <b>DIM10-MS/DIM-L08</b> =Synapse Occupancy Sensor (8' Mounting) <sup>19</sup> <b>DIM10-MS/DIM-L20</b> =Synapse Occupancy Sensor (9'-20' Mounting) <sup>19</sup> <b>DIM10-MS/DIM-L40</b> =Synapse Occupancy Sensor (21'-40' Mounting) <sup>19</sup>	<b>0A/RA1016</b> =NEMA Photocontrol Multi-Tap - 105-285V <b>0A/RA1027</b> =NEMA Photocontrol - 480V <b>0A/RA1201</b> =NEMA Photocontrol - 347V <b>0A/RA1013</b> =Photocontrol Shorting Cap <b>0A/RA1014</b> =120V Photocontrol <b>MA1252</b> =10kV Surge Module Replacement <b>MA1036-XX</b> =Single Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1037-XX</b> =2@180° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1197-XX</b> =3@120° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1188-XX</b> =4@90° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1189-XX</b> =2@90° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1190-XX</b> =3@90° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1191-XX</b> =2@120° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1038-XX</b> =Single Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1039-XX</b> =2@180° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1192-XX</b> =3@120° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1193-XX</b> =4@90° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1194-XX</b> =2@90° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1195-XX</b> =3@90° Tenon Adapter for 3-1/2" O.D. Tenon <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>24</sup> <b>GLEON-MT1</b> =Field Installed Mesh Top for 1-4 Light Squares <b>GLEON-MT2</b> =Field Installed Mesh Top for 5-6 Light Squares <b>GLEON-MT3</b> =Field Installed Mesh Top for 7-8 Light Squares <b>GLEON-MT4</b> =Field Installed Mesh Top for 9-10 Light Squares <b>GLEON-QM</b> =Quick Mount Arm Kit <sup>11</sup> <b>GLEON-QMEA</b> =Quick Mount Extended Arm Kit <sup>12</sup> <b>LS/HSS</b> =Field Installed House Side Shield <sup>28,30</sup> <b>LS/GRSBK</b> =Glare Reducing Shield, Black <sup>23,30</sup> <b>LS/GRSWH</b> =Glare Reducing Shield, White <sup>23,30</sup> <b>LS/PFS</b> =Perimeter Shield, Black <sup>15</sup> <b>WOLC-7P-10A</b> =WaveLinX Outdoor Control Module <sup>19,31</sup> <b>SWPD4-XX</b> =WaveLinX Wireless Sensor, 7'-15' Mounting Height <sup>13,19,32,33</sup> <b>SWPD5-XX</b> =WaveLinX Wireless Sensor, 15'-40' Mounting Height <sup>13,19,32,33</sup>

### NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option.
- Not compatible with MS/4-LXX or MS/1-LXX sensors.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
- 480V must utilize Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems.)
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- Requires ZW or ZD receptacle.
- Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
- Set of 4 pcs. One set required per Light Square.
- Not available with HA option.
- 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with Enlightened wireless sensors.
- Cannot be used with other control options.
- Low voltage control lead brought out 18" outside fixture.
- Not available if any "MS" sensor is selected. Motion sensor has an integral photocell.
- Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- Not for use with T4FT, T4W or SL4 optics. See IES files for details.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Replace X with number of Light Squares operating in low output mode.
- Enlightened wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities.
- Not available with house side shield (HSS).
- Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected.
- CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
- One required for each Light Square.
- Requires PR7.
- Replace XX with sensor color (WH, BZ or BK.)
- WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
- Smart device with mobile application required to change system defaults. See controls section for details.

### LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology	D=Standard Dome Camera H=Hi-Res Dome Camera Z=Remote PTZ Camera	C=Cellular, No SIM A=Cellular, AT&T V=Cellular, Verizon S=Cellular, Sprint R=Cellular, Rogers W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking



**Job Name:**

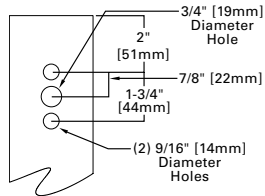
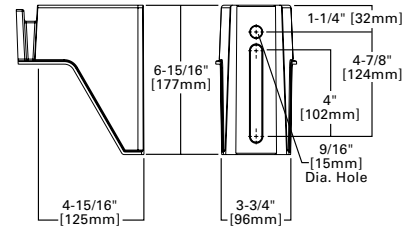
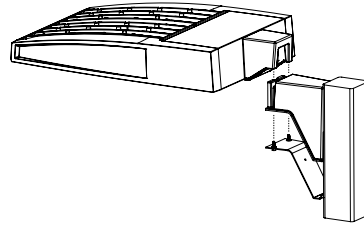
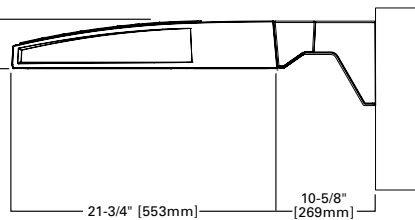
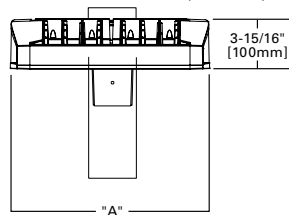
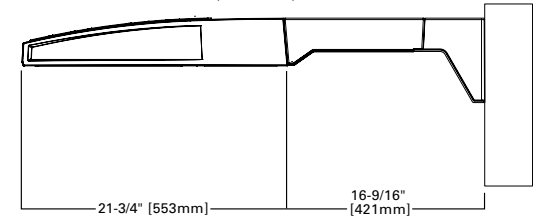
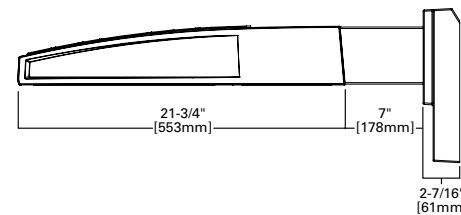
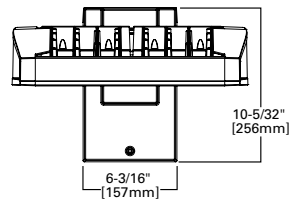
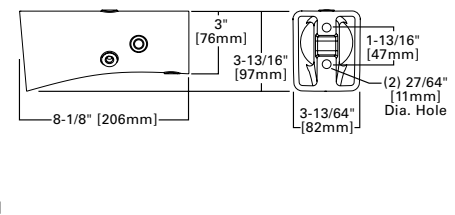
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

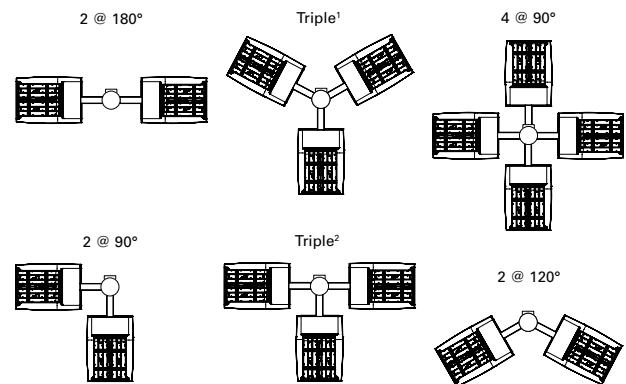
GLEON-SAX-X-730-U-TX-FINISH

**Notes:****Type:****P1**

SEATAC-WWA21-113425

**McGraw-Edison****GLEON Galleon****Mounting Details****Standard Arm (Drilling Pattern)****TYPE "N"****Quick Mount Arm (Includes fixture adapter)****QM Quick Mount Arm (Standard)****QMEA Quick Mount Arm (Extended)****Standard Wall Mount****Mast Arm Mount****Arm Mounting Requirements**

Number of Light Squares	Standard Arm @ 90° Apart	Standard Arm @ 120° Apart	Quick Mount Arm @ 90° Apart	Quick Mount Arm @ 120° Apart
1	Standard	Standard	QM Extended	Quick Mount
2	Standard	Standard	QM Extended	Quick Mount
3	Standard	Standard	QM Extended	Quick Mount
4	Standard	Standard	QM Extended	Quick Mount
5	Extended	Standard	QM Extended	Quick Mount
6	Extended	Standard	QM Extended	Quick Mount
7	Extended	Extended	—	Quick Mount
8	Extended	Extended	—	Quick Mount
9	Extended	Extended	—	—
10	Extended	Extended	—	—



**NOTES:** 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

**Fixture Weights and EPAs**

Number of Light Squares	Weight with Standard and Extended Arm (lbs.)	EPA with Standard and Extended Arm (Sq. Ft.)	Weight with Quick Mount Arm (lbs.)	EPA with Quick Mount Arm (Sq. Ft.)	Weight with Quick Mount Extended Arm (lbs.)	EPA with Quick Mount Extended Arm (Sq. Ft.)
1-4	33	0.96	35	1.11	38	1.11
5-6	44	1.00	46	1.11	49	1.11
7-8	54	1.07	56	1.11	—	—
9-10	63	1.12	—	—	—	—



**Job Name:**

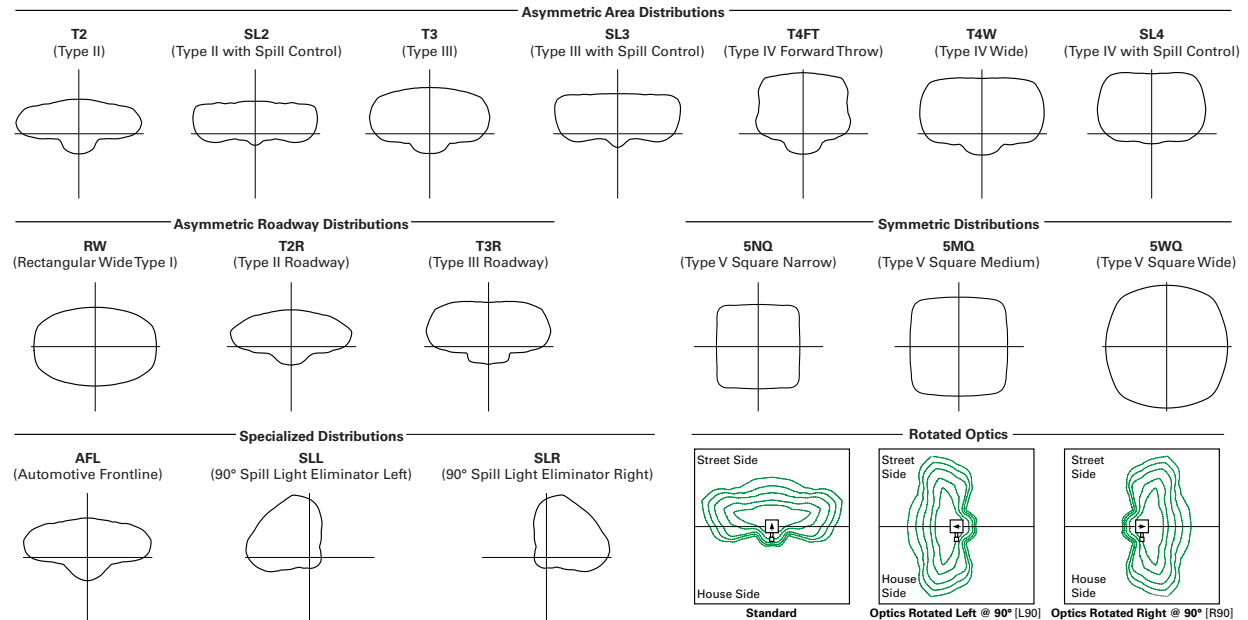
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

GLEON-SAX-X-730-U-TX-FINISH

**Notes:****Type:****P1**

SEATAC-WWA21-113425

**McGraw-Edison****GLEON Galleon****Optical Distributions****Product Specifications****Construction**

- Extruded aluminum driver enclosure
- Heavy-wall, die-cast aluminum end caps
- Die-cast aluminum heat sinks
- Patent pending interlocking housing and heat sink

**Optics**

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 16 optical distributions
- 3 shielding options including HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only)

**Electrical**

- LED drivers are mounted to removable tray

assembly for ease of maintenance

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

**Mounting**

- Standard extruded arm includes internal bolt guides and round pole adapter
- Extended arms (EA and QMEA) may be required in 90° or 120° pole mount configurations, see arm mounting requirements table

- Mast arm (MA) factory installed
- Wall mount (WM) option available
- Quick mount arm (QM and QMEA) includes pole adapter and factory installed fixture mount for fast installation to square or round poles

**Finish**

- Super housing durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

**Warranty**

- Five year warranty

**Energy and Performance Data****Lumen Maintenance (TM-21)**

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

\* Supported by IES TM-21 standards

\*\* Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.


**Lumen Multiplier**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97



View GLEON IES files



McGraw-Edison								GLEON Galleon			
Nominal Power Lumens (1.2A)								 Supplemental Performance Guide**			
Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K Lumens	7,972	15,580	23,245	30,714	38,056	45,541	53,857	61,024	68,072	75,366
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	122	119	119	119	120	119	118	118
T2R	4000K Lumens	8,462	16,539	24,680	32,609	40,401	48,348	57,176	64,783	72,266	80,010
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	129	126	126	127	128	127	126	125
T3	4000K Lumens	8,125	15,879	23,693	31,307	38,787	46,417	54,893	62,197	69,381	76,818
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	122	123	122	121	120
T3R	4000K Lumens	8,306	16,232	24,220	32,001	39,651	47,447	56,114	63,580	70,924	78,523
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
T4FT	4000K Lumens	8,173	15,970	23,831	31,488	39,014	46,686	55,212	62,558	69,783	77,261
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	122	124	125	122	122	122	123	122	121	121
T4W	4000K Lumens	8,067	15,764	23,522	31,080	38,510	46,082	54,499	61,751	68,881	76,263
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	120	122	123	120	120	121	122	121	120	119
SL2	4000K Lumens	7,958	15,552	23,206	30,662	37,989	45,462	53,763	60,920	67,952	75,235
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	121	119	119	119	120	119	118	118
SL3	4000K Lumens	8,124	15,877	23,690	31,302	38,784	46,410	54,885	62,189	69,372	76,805
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	121	123	122	121	120
SL4	4000K Lumens	7,719	15,085	22,510	29,741	36,850	44,097	52,148	59,089	65,913	72,977
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	115	117	118	115	115	115	116	116	115	114
5NQ	4000K Lumens	8,380	16,375	24,436	32,287	40,003	47,870	56,610	64,144	71,552	79,221
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	127	128	125	125	125	126	126	124	124
5MQ	4000K Lumens	8,534	16,676	24,885	32,881	40,739	48,752	57,653	65,326	72,868	80,679
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	127	129	130	127	127	128	129	128	127	126
5WQ	4000K Lumens	8,556	16,723	24,951	32,968	40,847	48,881	57,808	65,499	73,063	80,894
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	128	130	131	128	128	128	129	128	127	126
SLL/SLR	4000K Lumens	7,140	13,951	20,817	27,506	34,081	40,783	48,231	54,649	60,959	67,492
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	107	108	109	107	107	107	108	107	106	105
RW	4000K Lumens	8,304	16,228	24,215	31,994	39,641	47,437	56,100	63,566	70,907	78,504
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
AFL	4000K Lumens	8,335	16,287	24,302	32,110	39,784	47,610	56,303	63,796	71,163	78,790
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	125	126	125	124	123
* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.											



McGraw-Edison
GLEON Galleon

**Nominal Power Lumens (1A)**
 Supplemental Performance Guide\*\*

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
<b>Nominal Power (Watts)</b>		59	113	166	225	279	333	391	445	501	558
<b>Input Current @ 120V (A)</b>		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
<b>Input Current @ 208V (A)</b>		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
<b>Input Current @ 240V (A)</b>		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
<b>Input Current @ 277V (A)</b>		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
<b>Input Current @ 347V (A)</b>		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
<b>Input Current @ 480V (A)</b>		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
<b>Optics</b>											
<b>T2</b>	4000K Lumens	7,267	14,201	21,190	28,000	34,692	41,515	49,096	55,627	62,053	68,703
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	126	128	124	124	125	126	125	124	123
<b>T2R</b>	4000K Lumens	7,715	15,077	22,497	29,725	36,829	44,073	52,122	59,056	65,876	72,937
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	133	136	132	132	132	133	133	131	131
<b>T3</b>	4000K Lumens	7,408	14,475	21,598	28,539	35,358	42,313	50,039	56,698	63,246	70,024
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
<b>T3R</b>	4000K Lumens	7,571	14,798	22,078	29,172	36,145	43,253	51,153	57,959	64,653	71,581
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
<b>T4FT</b>	4000K Lumens	7,451	14,559	21,725	28,703	35,564	42,558	50,330	57,027	63,613	70,430
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	129	131	128	127	128	129	128	127	126
<b>T4W</b>	4000K Lumens	7,354	14,371	21,442	28,333	35,105	42,007	49,681	56,291	62,792	69,521
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	127	129	126	126	126	127	126	125	125
<b>SL2</b>	4000K Lumens	7,254	14,178	21,155	27,951	34,631	41,443	49,011	55,533	61,944	68,584
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	125	127	124	124	124	125	125	124	123
<b>SL3</b>	4000K Lumens	7,406	14,474	21,596	28,534	35,355	42,307	50,033	56,690	63,237	70,014
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
<b>SL4</b>	4000K Lumens	7,037	13,751	20,519	27,112	33,592	40,198	47,538	53,864	60,087	66,524
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	119	122	124	120	120	121	122	121	120	119
<b>5NQ</b>	4000K Lumens	7,640	14,928	22,275	29,431	36,465	43,637	51,606	58,472	65,226	72,218
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	132	134	131	131	131	132	131	130	129
<b>5MQ</b>	4000K Lumens	7,779	15,203	22,684	29,973	37,137	44,441	52,555	59,549	66,427	73,545
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	133	133	133	134	134	133	132
<b>5WQ</b>	4000K Lumens	7,800	15,243	22,744	30,052	37,236	44,560	52,697	59,708	66,603	73,742
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	134	133	134	135	134	133	132
<b>SLL/SLR</b>	4000K Lumens	6,510	12,719	18,977	25,075	31,067	37,176	43,967	49,817	55,569	61,525
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	110	113	114	111	111	112	112	112	111	110
<b>RW</b>	4000K Lumens	7,570	14,793	22,073	29,165	36,137	43,243	51,140	57,945	64,637	71,564
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
<b>AFL</b>	4000K Lumens	7,598	14,847	22,154	29,272	36,267	43,400	51,326	58,156	64,872	71,824
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	129	131	133	130	130	130	131	131	129	129

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



McGraw-Edison						GLEON Galleon					
Nominal Power Lumens (800mA)						Supplemental Performance Guide**					
Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	44	85	124	171	210	249	295	334	374	419	
Input Current @ 120V (A)	0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80	
Input Current @ 208V (A)	0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12	
Input Current @ 240V (A)	0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84	
Input Current @ 277V (A)	0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67	
Input Current @ 347V (A)	0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52	
Input Current @ 480V (A)	0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96	
Optics											
T2	4000K Lumens	5,871	11,474	17,121	22,622	28,029	33,542	39,667	44,944	50,134	55,508
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	135	134	135	134	132
T2R	4000K Lumens	6,233	12,181	18,176	24,016	29,756	35,608	42,111	47,714	53,224	58,929
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	142	143	147	140	142	143	143	143	142	141
T3	4000K Lumens	5,986	11,695	17,450	23,057	28,568	34,186	40,430	45,809	51,099	56,576
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
T3R	4000K Lumens	6,117	11,955	17,838	23,569	29,203	34,946	41,328	46,827	52,235	57,832
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
T4FT	4000K Lumens	6,019	11,763	17,551	23,190	28,734	34,384	40,663	46,074	51,396	56,904
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	137	138	142	136	137	138	138	138	137	136
T4W	4000K Lumens	5,942	11,610	17,324	22,891	28,363	33,940	40,138	45,480	50,732	56,169
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	135	137	140	134	135	136	136	136	136	134
SL2	4000K Lumens	5,862	11,454	17,091	22,583	27,980	33,484	39,598	44,867	50,048	55,411
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	134	134	134	134	132
SL3	4000K Lumens	5,985	11,694	17,447	23,053	28,565	34,182	40,424	45,804	51,092	56,568
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
SL4	4000K Lumens	5,685	11,111	16,577	21,905	27,140	32,478	38,409	43,520	48,546	53,748
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	129	131	134	128	129	130	130	130	130	128
5NQ	4000K Lumens	6,172	12,061	17,997	23,778	29,462	35,256	41,694	47,242	52,699	58,347
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	140	142	145	139	140	142	141	141	141	139
5MQ	4000K Lumens	6,285	12,283	18,328	24,217	30,004	35,907	42,462	48,112	53,669	59,421
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	144	144	144	144	142
5WQ	4000K Lumens	6,303	12,317	18,377	24,281	30,085	36,001	42,575	48,241	53,812	59,579
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	145	144	144	144	142
SLL/SLR	4000K Lumens	5,260	10,276	15,332	20,259	25,101	30,037	35,522	40,249	44,898	49,708
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	120	121	124	118	120	121	120	121	120	119
RW	4000K Lumens	6,116	11,952	17,834	23,563	29,196	34,938	41,317	46,817	52,224	57,819
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
AFL	4000K Lumens	6,139	11,996	17,899	23,650	29,302	35,064	41,468	46,987	52,412	58,030
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	140	141	144	138	140	141	141	141	140	138

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



McGraw-Edison						GLEON Galleon					
Nominal Power Lumens (600mA) <span style="float: right;">📖 Supplemental Performance Guide**</span>											
Number of Light Squares		1	2	3	4	5	6	7	8	9	10
<b>Nominal Power (Watts)</b>		34	66	96	129	162	193	226	257	290	323
<b>Input Current @ 120V (A)</b>		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
<b>Input Current @ 208V (A)</b>		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
<b>Input Current @ 240V (A)</b>		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
<b>Input Current @ 277V (A)</b>		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
<b>Input Current @ 347V (A)</b>		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
<b>Input Current @ 480V (A)</b>		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
<b>T2</b>	4000K Lumens	4,787	9,357	13,961	18,448	22,856	27,353	32,347	36,651	40,884	45,265
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	142	145	143	141	142	143	143	141	140
<b>T2R</b>	4000K Lumens	5,083	9,934	14,822	19,585	24,266	29,038	34,341	38,911	43,404	48,055
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	150	151	154	152	150	150	152	151	150	149
<b>T3</b>	4000K Lumens	4,880	9,537	14,231	18,803	23,296	27,878	32,970	37,358	41,671	46,137
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	148	146	144	144	146	145	144	143
<b>T3R</b>	4000K Lumens	4,988	9,749	14,547	19,220	23,814	28,497	33,703	38,188	42,598	47,162
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	147	148	152	149	147	148	149	149	147	146
<b>T4FT</b>	4000K Lumens	4,909	9,591	14,312	18,911	23,432	28,040	33,161	37,574	41,913	46,404
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	149	147	145	145	147	146	145	144
<b>T4W</b>	4000K Lumens	4,845	9,468	14,128	18,668	23,130	27,678	32,732	37,088	41,371	45,805
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	143	143	147	145	143	143	145	144	143	142
<b>SL2</b>	4000K Lumens	4,779	9,341	13,937	18,416	22,818	27,305	32,292	36,589	40,813	45,188
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	141	142	145	143	141	141	143	142	141	140
<b>SL3</b>	4000K Lumens	4,879	9,536	14,229	18,800	23,294	27,874	32,965	37,351	41,666	46,130
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	144	144	148	146	144	144	146	145	144	143
<b>SL4</b>	4000K Lumens	4,637	9,059	13,519	17,863	22,132	26,486	31,322	35,490	39,589	43,831
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	136	137	141	138	137	137	139	138	137	136
<b>5NQ</b>	4000K Lumens	5,033	9,835	14,676	19,392	24,026	28,751	34,002	38,526	42,975	47,581
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	148	149	153	150	148	149	150	150	148	147
<b>5MQ</b>	4000K Lumens	5,126	10,015	14,946	19,747	24,468	29,281	34,628	39,236	43,766	48,457
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	151	152	156	153	151	152	153	153	151	150
<b>5WQ</b>	4000K Lumens	5,139	10,043	14,985	19,801	24,533	29,359	34,721	39,339	43,883	48,586
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	151	152	156	153	151	152	154	153	151	150
<b>SL/SLR</b>	4000K Lumens	4,289	8,380	12,502	16,520	20,469	24,494	28,967	32,823	36,613	40,537
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	126	127	130	128	126	127	128	128	126	126
<b>RW</b>	4000K Lumens	4,987	9,746	14,543	19,215	23,808	28,491	33,695	38,178	42,587	47,151
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	148	151	149	147	148	149	149	147	146
<b>AFL</b>	4000K Lumens	5,007	9,782	14,597	19,285	23,896	28,594	33,817	38,317	42,742	47,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	147	148	152	149	148	148	150	149	147	147

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

GLEON-SAX-X-730-U-TX-FINISH

**Notes:****Type:****P1**

SEATAC-WWA21-113425

**McGraw-Edison****GLEON Galleon****Control Options****0-10V (DIM)**

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

**Photocontrol (BPC, PR and PR7)**

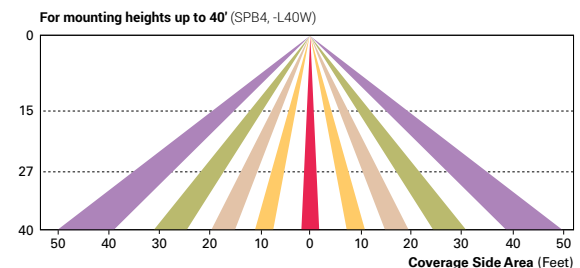
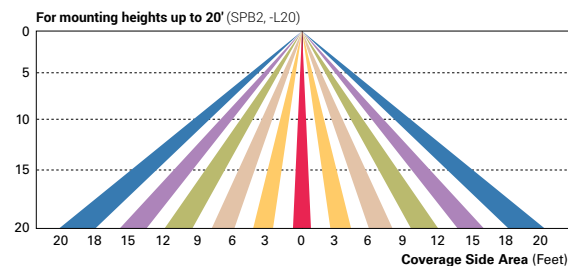
Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

**After Hours Dim (AHD)**

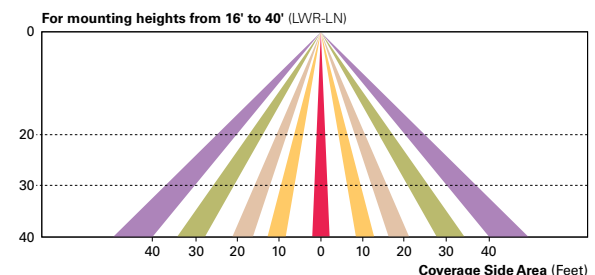
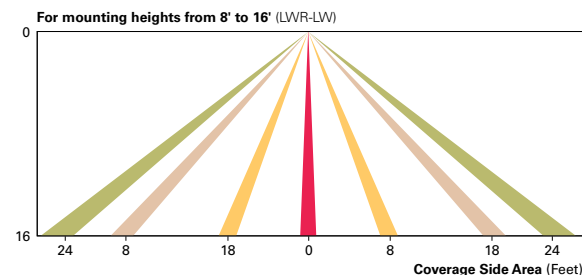
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

**Dimming Occupancy Sensor (SPB, MS/DIM-LXX, MS/X-LXX and MS-LXX)**

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

**Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

**WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)**

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomical or time schedules based on a 7 day week.

**LumenSafe Integrated Network Security Camera (LD)**

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

**Synapse (DIM10)**

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and MS/DC motion sensor; requires additional Synapse system components for operation. Contact Synapse at [www.synapsewireless.com](http://www.synapsewireless.com) for product support, warranty and terms and conditions.



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

**Notes:****Type:****P1-OPT 2**

SEATAC-WWA21-113425

# VLX Array LED Specifications



Project Name:

Catalog Number:

Type:

The new **VLX Array LED** Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines the latest LED Array technology, advanced LED thermal management and provides outdoor lighting that is both energy efficient and aesthetically pleasing.

The LED Arrays performance and the driver's life are maximized by enclosing them in two separate die cast aluminum housings. Easy tool-less access for mounting and maintenance.

The LED Array light assembly comes with 192 LED Arrays, with lumen packages ranging from 54,000-76,000 lumens. Ten optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LEDs.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **VLX Array LED** series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting projects.

## Ordering Information

**CONFIRM  
FINISH**

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
<b>VLX-1</b>	<b>T1</b> Type 1	<b>55L</b>	<b>3K</b> 3000K	<b>UNV</b> 120-277V	<b>AM</b> Arm Mount	<b>GY</b> Grey	<b>PCR-120</b> <b>PCR-208</b> <b>PCR-240</b> <b>PCR-277</b> <b>PCR-347</b> <b>PCR-480</b> Photocell & Receptacle	<b>RPP3</b> <b>RPP4</b> <b>RPP5</b> For 3", 4", or 5" Ø Pole - Round Pole Plate Adaptor
	<b>T2</b> Type 2	<b>60L</b>	<b>4K</b> 4000K	<b>8</b> 347V	<b>WM</b> Wall Mount	<b>SL</b> Silver Metallic		
	<b>T3</b> Type 3	<b>65L</b>	<b>5K</b> 5000K	<b>5</b> 480V		<b>BK</b> Black	<b>(3,5,7) PINPER</b> 3, 5, or 7 Pin Photo Receptacle w/shorting cap	<b>UPMA-S</b> Universal Square Pole Mount Adaptor
	<b>T3L</b> Type 3 Long	<b>CONFIRM OUTPUT</b>				<b>SBK</b> Smooth Black	<b>DIM</b> 0-10v Dimming Driver	<b>UPMA-R</b> Universal Round Pole Mount Adaptor
	<b>T4</b> Type 4					<b>WH</b> White	<b>WSC-8</b> Motion Sensor 8' Mounting Height	<b>BAWP</b> Cast Wall Plate
	<b>T4A</b> Type 4 Automotive					<b>SWH</b> Smooth White	<b>WSC-20</b> Motion Sensor 9-20' Mounting Height	<b>ROT-R</b> Rotated Optics Right Side
	<b>T4L</b> Type 4 Long					<b>BZ</b> Bronze	<b>WSC-40</b> Motion Sensor 21-40' Mounting Height This option will require (1) FSIR 100 remote for programming	<b>ROT-L</b> Rotated Optics Left Side
	<b>T5LR</b> Type 5 Long Round	<b>CONFIRM DISTRIBUTION</b>				<b>GP</b> Graphite		<b>CLS</b> Back Side Cutoff Louver Shield
	<b>T5LS</b> Type 5 Long Square					<b>CC</b> Custom Color	<b>VWC</b> Visionaire Wireless Controls *Consult Factory	<b>RCLS</b> Right Side Cutoff Louver Shield
	<b>T5SR</b> Type 5 Short Round							<b>LCLS</b> Left Side Cutoff Louver Shield



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

**Notes:****Type:****P1-OPT 2**

SEATAC-WWA21-113425

# Features & Specifications

## VLX Array

**Heatsink**

- Die cast aluminum heatsink with integral cooling fins for thermal management.

**Mounting Arm/Driver Compartment**

- Durable two-piece die cast aluminum driver compartment utilizes a tool-less push button latch for ease of maintenance and sealed with a one-piece silicone gasket.

**Thermal Management**

- The VLX Array series provides excellent thermal management by mounting the LED Arrays to the substantial heat sink of the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.
- The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The VLX Array series LEDs have been determined to last 90,000+ hours in 25° C environments when driven at 1400 mA.

**Optical System**

- The highest lumen output LED Arrays are utilized in the VLX Array series. IES distribution Types I, II, III, III-L, IV, IV-A, IV-L, V-LR, V-LS, and V-SR are available. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.
- CRI values are 70.

**New LED Array Technology**

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

**Quali-Guard® Finish**

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors.
- Finish is guaranteed for ten (10) years.

**Electrical Assembly**

- The VLX Array LED series is supplied with a choice of 350, 530, 700, 1050 mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for -40°C operations.
- 10 kV surge protector supplied as standard.
- Terminal block supplied as standard.

**Warranty**

- Ten (10) year Limited Warranty on entire system, including finish. For full warranty information, please visit [visionairelighting.com](http://visionairelighting.com).

**Options**

- Photocell & receptacle
- Photo receptacle
- 0-10v Dimming Driver
- Motion Sensor
- Wireless Control
- Round pole plate adapter
- Universal Pole Mount Adaptor
- Cast Wall Plate
- Cut-Off Louver Shield
- Rotated Optics

**Listings**

- The VLX Array Series is cUL Listed
- IP65 Rated Housing
- ANSI Certification
- Powder Coated Tough
- IDA Certification

3000K must be selected with a fixed mount for IDA certification.



VLX ARRAY - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VLX-1-T5LS-55L	388	3.23	1.87	1.62	1.40	1.12	0.81
VLX-1-T5LS-60L	444	3.70	2.13	1.85	1.60	1.28	0.93
VLX-1-T5LS-70L	501	4.18	2.41	2.09	1.81	1.44	1.04
VLX-1-T5LS-75L	565	4.71	2.72	2.35	2.04	1.63	1.18

229



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

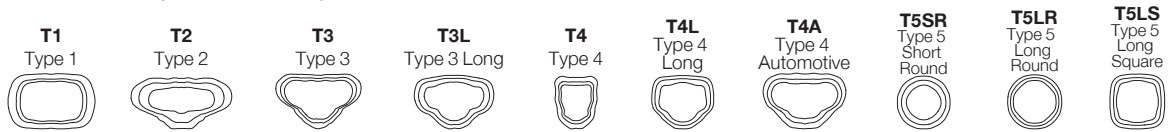
Notes:

**Type:****P1-OPT 2**

SEATAC-WWA21-113425

# VLX Array LED Array Specifications

## Photometric Optical Summary



## Dimensions

**Width:** VLX-1 16.5"

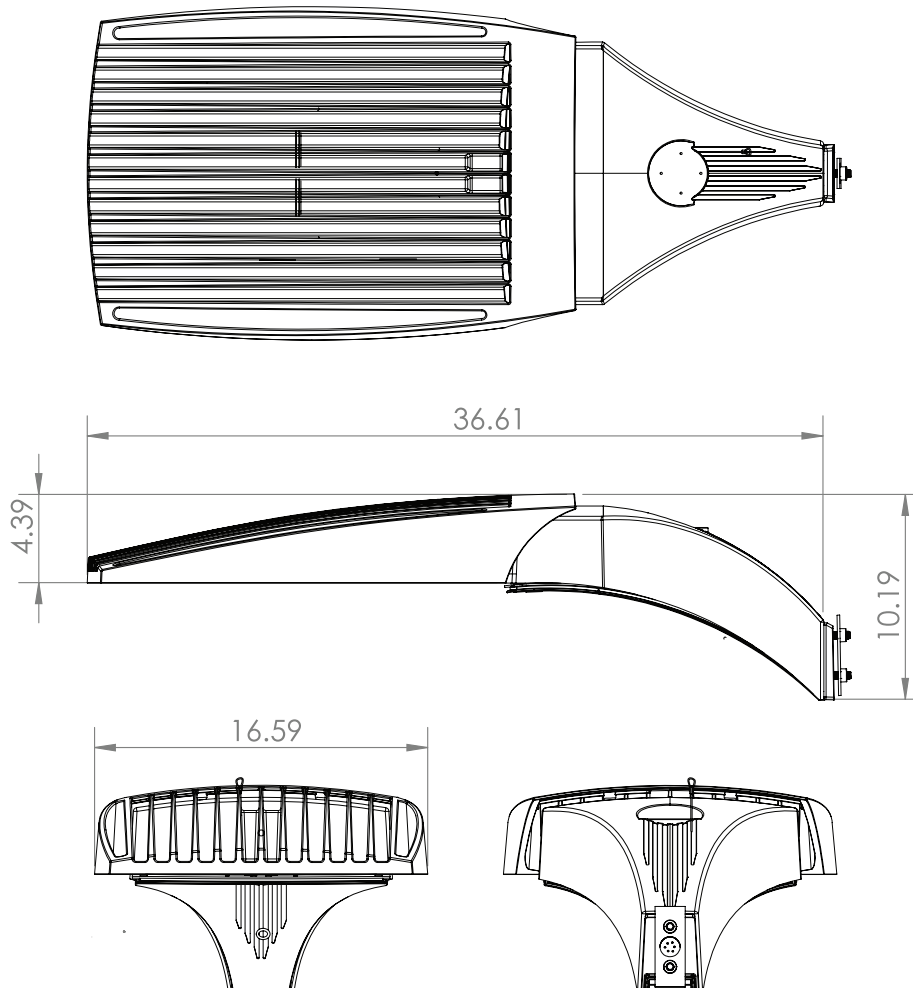
**Depth:** VLX-1 36.6"

**Height:** VLX-1 4.39"

**Overall Height:** VLX-1 10.19"

**Weight:** 58 LBS

**CONFIRM  
DISTRIBUTION**



**VISIONAIRE LIGHTING**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

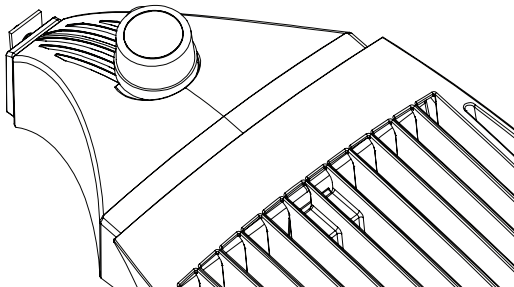
VLX-1-TX-XXL-3K-UNV-AM-FINISH

**Notes:****Type:****P1-OPT 2**

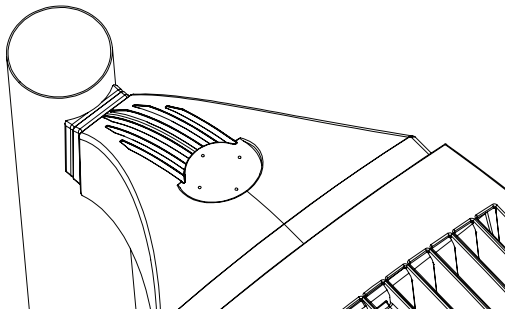
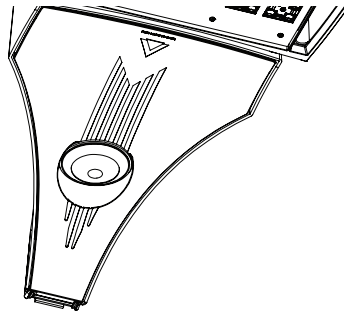
SEATAC-WWA21-113425

LED Specifications **VLX Array****Twist lock Photocell & Receptacle**

Dusk to dawn sensor.

**Round Pole Plate Adaptor**

Round Pole Plate Adaptor to be used with round pole.

**Motion Sensor**

The FSP-211 by Legrand is integrated into the VLX housing and provides multi-level control based on motion and/or daylight contribution.

## Lens Coverage Patterns:

WSC-8 - 360° lens, maximum coverage 48'; diameter from 8' height

WSC-20 - 360° lens, maximum coverage 48'; diameter from 20' height

WSC-40 - 360° lens, maximum coverage 100'; diameter from 40' height

## Default settings:

FACTORY DEFAULTS High Mode

Low Mode

Time Delay

Cut Off

Sensitivity

Hold Off Set point

Ramp Up

Fade Down

Force Off Set point with Occupied

0 Volts

1 Volts

5 Minutes

1 Hour

Maximum

4 Foot Candles

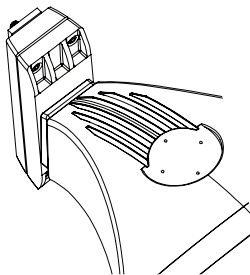
None

None

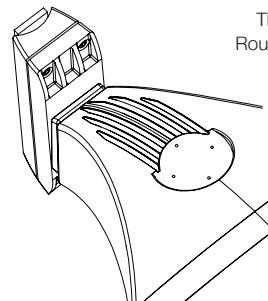
Disable

**UPMA**

The Universal Pole Mount Adaptor is ideal for retrofit applications with existing square poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

**UPMA-R**

The Universal Pole Mount Adaptor Round is ideal for retrofit applications with existing round poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 2**

SEATAC-WWA21-113425

**CONFIRM  
OUTPUT**

# VLX Array LED Array Specifications

**VLX ARRAY LUMEN CHART - 3K**

# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	52191	51808	50363	45516	51180	52819	46412	50261	52041	53885	388
	800	60L	58603	58173	56550	51108	57468	59308	52114	56436	58435	60506	444
	900	65L	64846	64370	62574	56552	63589	65626	57665	62448	64659	66951	501
	1000	75L	70533	70015	68062	61512	69166	71382	62723	67925	70330	72822	565

**VLX ARRAY LUMEN CHART - 4K**

# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	54287	53889	52385	47344	53235	54940	48276	52279	54131	56049	388
	800	60L	60956	60509	58821	53160	59775	61690	54207	58702	60781	62935	444
	900	65L	67449	66955	65087	58823	66143	68261	59981	64955	67256	69639	501
	1000	75L	73365	72827	70795	63982	71943	74248	65241	70652	73154	75746	565

**VLX ARRAY LUMEN CHART - 5K**

# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	55011	54608	53084	47975	53945	55673	48920	52977	54853	56797	388
	800	60L	61770	61317	59606	53869	60573	62513	54930	59486	61592	63775	444
	900	65L	68350	67848	65955	59608	67025	69172	60781	65822	68153	70568	501
	1000	75L	74344	73799	71740	64835	72904	75238	66112	71595	74130	76757	565

**VLX ARRAY LUMEN PER WATT CHART - 3K**

# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	135	134	130	117	132	136	120	130	134	139	388
	800	60L	132	131	127	115	130	134	117	127	132	136	444
	900	65L	129	128	125	113	127	131	115	125	129	134	501
	1000	75L	125	124	120	109	122	126	111	120	124	129	565

**VLX ARRAY LUMEN PER WATT CHART - 4K**

# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	140	139	135	122	137	142	124	135	140	144	388
	800	60L	137	136	133	120	135	139	122	132	137	142	444
	900	65L	135	134	130	117	132	136	120	130	134	139	501
	1000	75L	130	129	125	113	127	131	115	125	129	134	565

**VLX ARRAY LUMEN PER WATT CHART - 5K**

# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	142	141	137	124	139	144	126	137	141	146	388
	800	60L	139	138	134	121	137	141	124	134	139	144	444
	900	65L	136	135	132	119	134	138	121	131	136	141	501
	1000	75L	132	131	127	115	129	133	117	127	131	136	565





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 2**

SEATAC-WWA21-113425

LED Specifications **VLX Array**

VLX ARRAY BUG CHART - 3K																																	
# LEDs	Current (mA)	K Lumen	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
192AR	700	55L	5	0	5	5	0	5	4	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	388
	800	60L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	444
	900	65L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	501
	1000	75L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	565
VLX ARRAY BUG CHART - 4K																																	
# LEDs	Current (mA)	K Lumen	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
192AR	700	55L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	5	388
	800	60L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	5	444
	900	65L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	5	501
	1000	75L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	565
VLX ARRAY BUG CHART - 5K																																	
# LEDs	Current (mA)	K Lumen	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
192AR	700	55L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	388
	800	60L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	444
	900	65L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	501
	1000	75L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	565



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

## VMX-II LED Specifications



\*Universal Arm Mount (UAM) Version Shown.

Project Name:

Catalog Number:

Type:

The **VMX-II LED** Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines the latest LED technology, advanced LED thermal management and provides outdoor lighting that is both energy efficient and aesthetically pleasing.

The LED's performance and the driver's life are maximized by enclosing them in two separate cast aluminum housings. Easy tool-less access for mounting and maintenance.

The LED light assemblies come with 48 to 96 LEDs. Eight optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LEDs.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **VMX-II LED** series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting projects.

### Ordering Information

**CONFIRM  
FINISH**

MODEL	OPTICS	LEDs	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS	OPTIONS
<b>VMX-II</b>	<b>T1</b> Type 1	<b>48LC</b>	<b>3</b> 350mA	<b>3K</b> 3000K	<b>UNV</b> 120-277V	<b>AM</b> Arm Mount	<b>BZ</b> Bronze	<b>PCR-120</b>	<b>WSC-8</b> Motion Sensor 8' Mounting Height	<b>UPMA-S</b> Universal Square Pole Mount Adaptor
	<b>T2</b> Type 2	<b>64LC</b>	<b>5</b> 530mA	<b>4K</b> 4000K	<b>8</b> 347V	<b>SAM</b> Straight Arm Mount W/ Terminal Block (New Construction)	<b>BK</b> Black	<b>PCR-208</b>		
	<b>T3</b> Type 3	<b>80LC</b>	<b>7</b> 700mA	<b>5K</b> 5000K	<b>5</b> 480V		<b>SBK</b> Smooth Black	<b>PCR-240</b>	<b>WSC-20</b> Motion Sensor 9-20' Mounting Height	<b>UPMA-R</b> Universal Round Pole Mount Adaptor
	<b>T4</b> Type 4	<b>96LC</b>	<b>10</b> 1050mA *Not available in 96LC			<b>UAM</b> Universal ArmW/ Terminal Block Mount (Retrofit)	<b>WH</b> White	<b>PCR-277</b>		
	<b>T4A</b> Type 4 Automotive	<b>CONFIRM OUTPUT</b>				<b>MAF</b> Mast Arm Fitter	<b>SWH</b> Smooth White	<b>PCR-347</b>	<b>PCR-480</b> Photocell & Receptacle	<b>BAWP</b> Cast Wall Plate
	<b>T5</b> Type 5					<b>KM</b> Knuckle Mount	<b>GP</b> Graphite	<b>PER</b>	<b>WSC-40</b> Motion Sensor 21-40' Mounting Height	<b>ROT-R</b> Rotated Optics Right Side
	<b>T5W</b> Type 5 Wide					<b>WM</b> Wall Mount *Requires BAWP	<b>GY</b> Grey	<b>5PINPER</b>	<b>ROT-L</b> Rotated Optics Left Side	
	<b>T5WR</b> Type 5 Wide Round					<b>AWM</b> Adjustable Wall Mount	<b>SL</b> Silver Metallic	<b>7PINPER</b> 3, 5, or 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	<b>UMAP</b> Universal Mast arm fitter	<b>CLS</b> Backside cutoff shield *Not to be used with KM
	<b>CONFIRM DISTRIBUTION</b>					*Round Pole Plate Adapters (RPP) are to be ordered separately.	<b>CC</b> Custom Color	<b>RPP-3"</b>	<b>ECLS</b> Egg Crate Louder Shield	<b>RCLS</b> Rightside cutoff shield *Not to be used with KM
						*BAWP to be ordered separately		<b>RPP-4"</b>	<b>ADJLS</b> Adjustable Louder Light Shield	<b>LCLS</b> Leftside cutoff shield *Not to be used with KM
								<b>RPP-5"</b>	<b>BD</b> Barn Door Shield	<b>HS</b> House shield
								<b>VWC</b> Visionaire Wireless Controls *Consult Factory		



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

# Features & Specifications

**VMX-II****Heatsink**

Cast aluminum heatsink with integral cooling fins for thermal management.

**Mounting Arm/Driver Compartment**

Durable two-piece die cast aluminum driver compartment utilizes stainless steel hardware and sealed with a one-piece silicone gasket.

**Thermal Management**

- The VMX-II series provides excellent thermal management by mounting the LEDs to the substantial heat sink of the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.
- The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The VMX-II series LEDs have been determined to last 100,000+ hours in 25° C environments when driven at 350 mA.

**Optical System**

- The highest lumen output, LEDs are utilized in the VMX-II series. IES distribution Types I, II, III, IV, IV-A, V, V-WR are available. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.
- CRI values are 70.

**Quali-Guard® Finish**

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors.
- Finish is guaranteed for five (5) years.

**Electrical Assembly**

- The VMX-II LED series is supplied with a choice of 350, 530, 700 or 1050 mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for -40°C operations.
- 10 kV surge protector supplied as standard.
- Terminal block supplied as standard on AM, SAM and UAM as standard

**Warranty**

- Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit [visionairelighting.com](http://visionairelighting.com).

**Options**

- Photocell & Receptacle
- Photo Receptacle with Shorting Cap
- 0-10v Dimming Driver
- Motion Sensor
- Wireless Control
- Round pole plate adapter
- Universal Pole Mount Adaptor
- Cast Wall Plate
- Rotated Optics
- Cutoff Louver Shielding (CLS)

**Listings**

- The VMX-II Series is cUL Listed
- IP65 Rated Housing
- ANSI Certification
- Powder Coated Tough
- IDA Certification
- DLC Listed



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>  
 3000K must be selected with a fixed mount for IDA certification. Fixed mount must be selected for IDA dark sky certification.

VMX-II - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VMX-II-T5-48LC-3	52	0.43	0.25	0.22	0.19	0.15	0.11
VMX-II-T5-48LC-5	78	0.65	0.38	0.33	0.28	0.22	0.16
VMX-II-T5-48LC-7	106	0.88	0.51	0.44	0.38	0.31	0.22
VMX-II-T5-48LC-10	161	1.34	0.77	0.67	0.58	0.46	0.34
VMX-II-T5-64LC-3	70	0.58	0.34	0.29	0.25	0.20	0.15
VMX-II-T5-64LC-5	107	0.89	0.51	0.45	0.39	0.31	0.22
VMX-II-T5-64LC-7	142	1.18	0.68	0.59	0.51	0.41	0.30
VMX-II-T5-64LC-10	218	1.82	1.05	0.91	0.79	0.63	0.45
VMX-II-T5-80LC-3	87	0.73	0.42	0.36	0.31	0.25	0.18
VMX-II-T5-80LC-5	132	1.10	0.63	0.55	0.48	0.38	0.28
VMX-II-T5-80LC-7	177	1.48	0.85	0.74	0.64	0.51	0.37
VMX-II-T5-80LC-10	272	2.27	1.31	1.13	0.98	0.78	0.57
VMX-II-T5-96LC-3	104	0.87	0.50	0.43	0.38	0.30	0.22
VMX-II-T5-96LC-5	157	1.31	0.75	0.65	0.57	0.45	0.33
VMX-II-T5-96LC-7	212	1.77	1.02	0.88	0.77	0.61	0.44



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

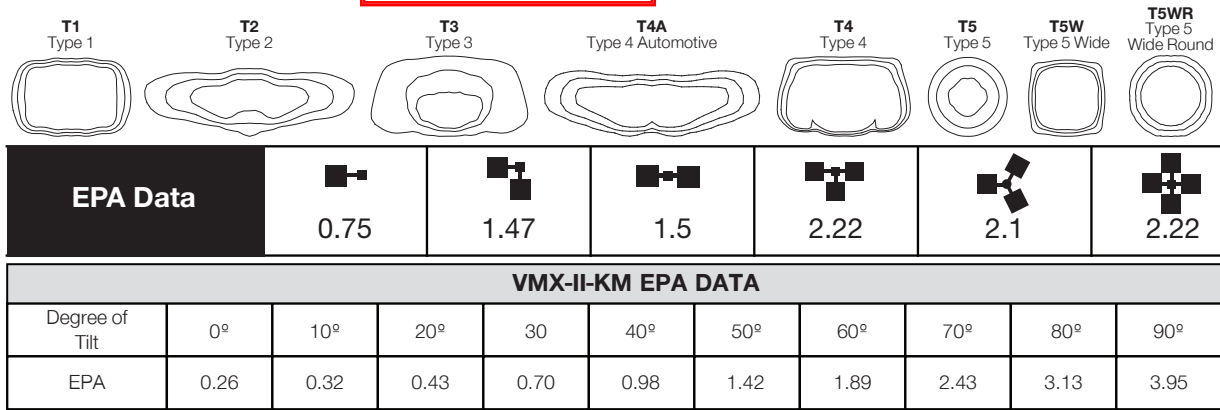
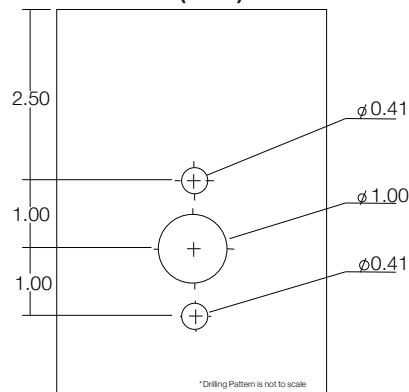
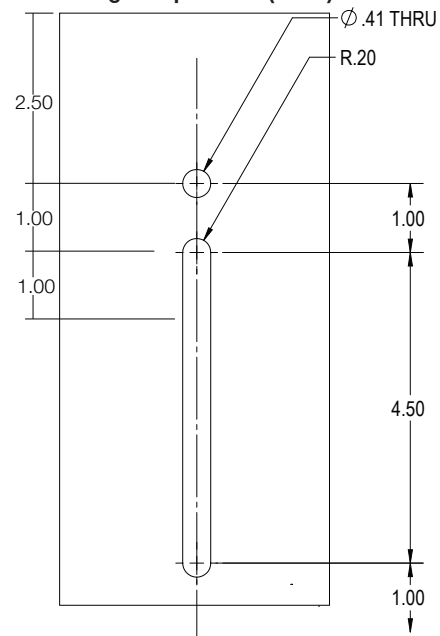
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

# VMX-II LED Specifications

**Photometric Optical Summary****CONFIRM DISTRIBUTION****Dimensions****Width:** VMX-II 15.5"**Depth:** VMX-II 29"**Height:** VMX-II 4.0"**Overall Height:** VMX-II 10.75"**Weight:** 49 LBS**Drilling Template for (AM) and (SAM)****Drilling Template for (UAM)**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 3**

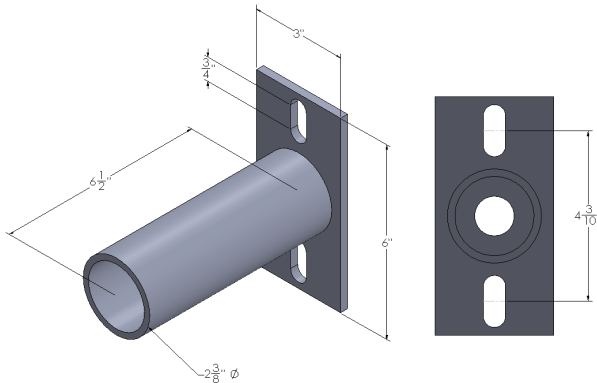
SEATAC-WWA21-113425

LED Specifications **VMX-II**

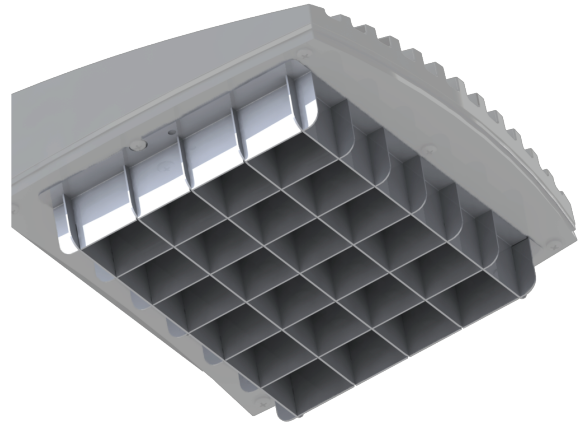
## VMX-II Options

## Universal Mast Arm Fitter

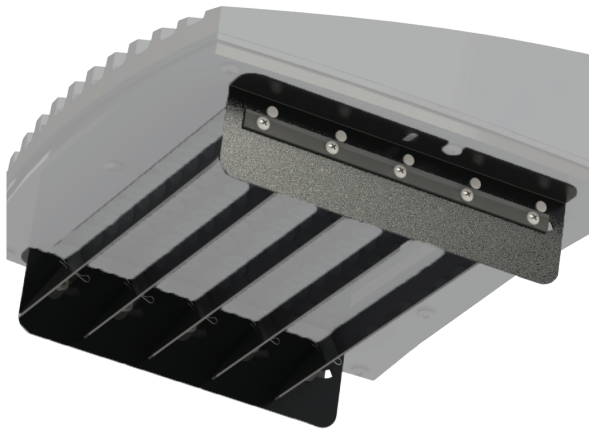
**UMAP – The Universal Mast Arm Fitter** is a simple solution for retrofit applications where a fixture needs to mount to an existing pole, the UMAP is meant to be use to with knuckle mounts and also Mast Arm Fitters. The UMAP has a bolt slot ranging from 7" all the way down to 3.5". The UMAP also has a Round Pole Plate Adaptor (RPP) for mounting to round poles.



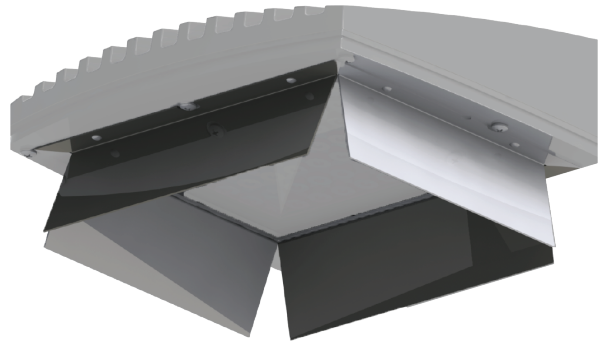
## Egg Crate Light Shield



## Adjustable Louver Light Shield



## Barn Door Light Shield





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

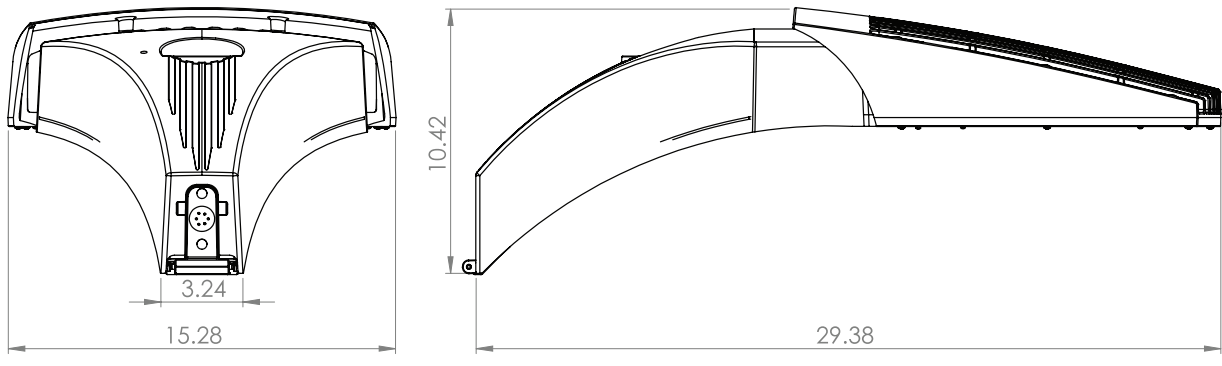
**Type:****P1-OPT 3**

SEATAC-WWA21-113425

## VMX-II LED Specifications

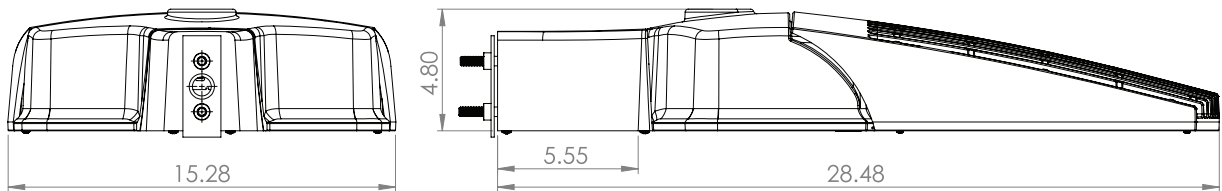
### Arm Mount (AM)

The Arm Mount (AM) utilizes a 2 piece cleat system for easy installation, a terminal block is supplied as standard. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



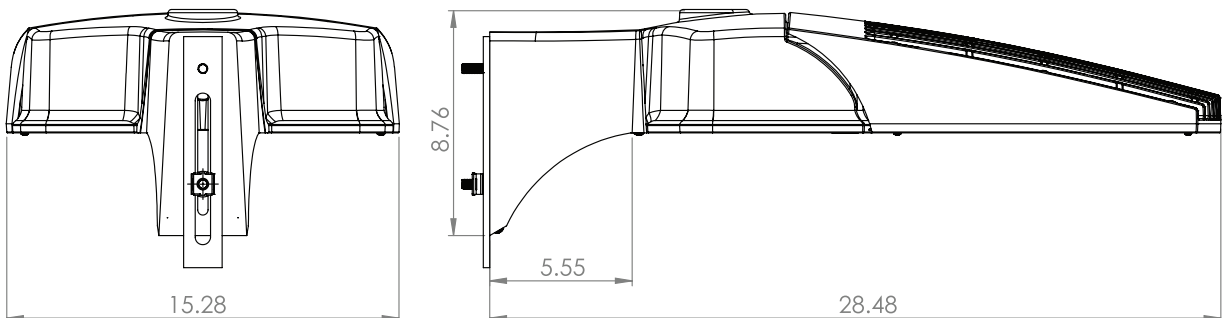
### Straight Arm Mount (SAM)

The Straight Arm Mount (SAM) uses a 2 piece mounting system, a terminal block is supplied as standard. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



### Universal Arm Mount (UAM)

The Universal Arm Mount (UAM) is meant for retrofit Applications and has a drilling template ranging from 3" to 5.5". A Round Pole Plate Adapter (RPP) is required for mounting to round poles.





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

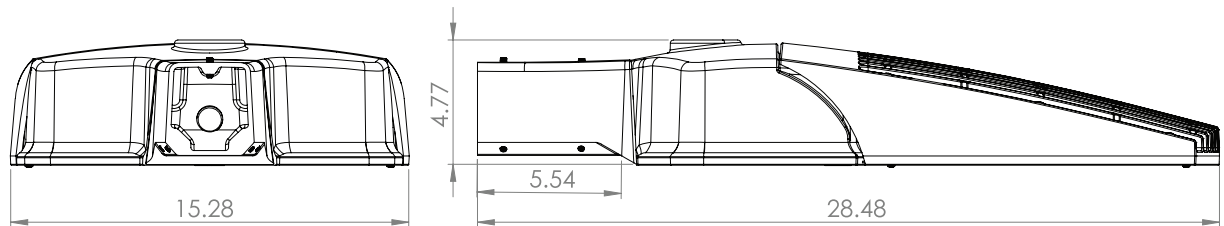
Notes:

**Type:****P1-OPT 3**

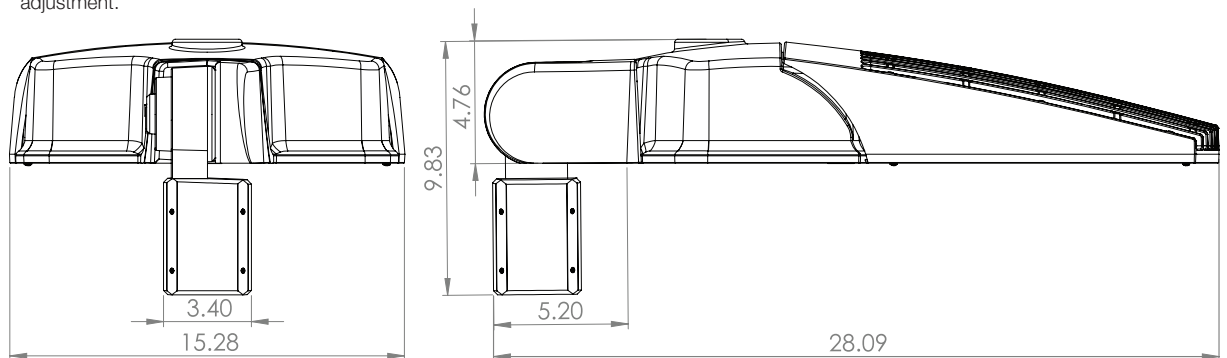
SEATAC-WWA21-113425

LED Specifications **VMX-II****Mast Arm Fitter (MAF)**

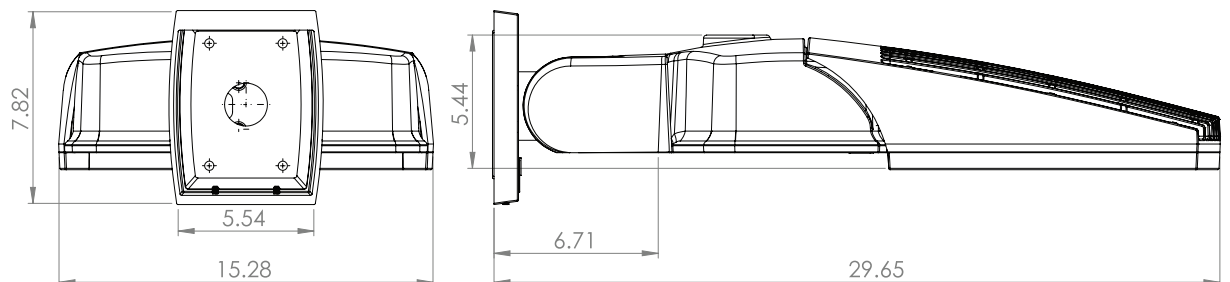
Mast Arm Fitter fits over a 1 5/8" - 2 3/8" tenon.

**Knuckle Mount (KM)**

An adjustable knuckle slip fits over a 2 3/8" Tenon, and allows for up to 90° degrees of vertical adjustment in 10° degree increments from horizontal, as well as full side to side adjustment.

**Adjustable Wall Mount (AWM)**

Wall Mount - Adjustable up to 50° in 10° increments





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

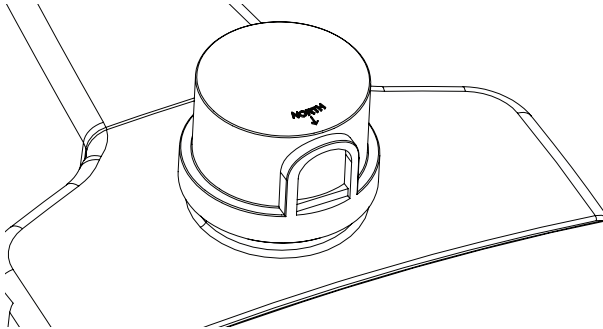
Notes:

**Type:****P1-OPT 3**

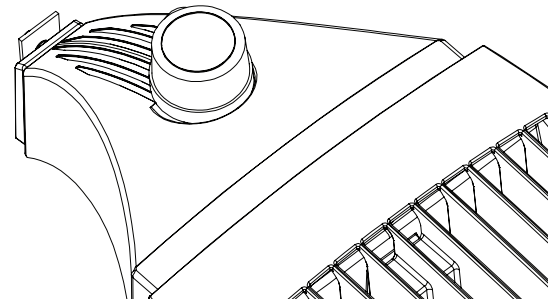
SEATAC-WWA21-113425

## VMX-II LED Specifications

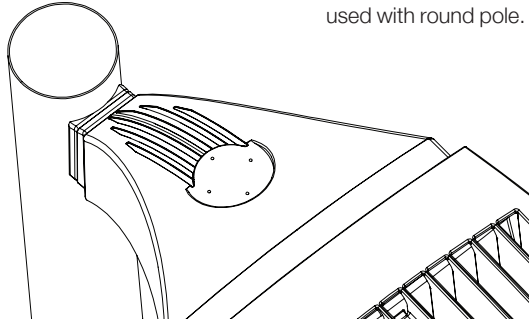
Twist lock Photocell &amp; Receptacle - Dusk to dawn sensor.



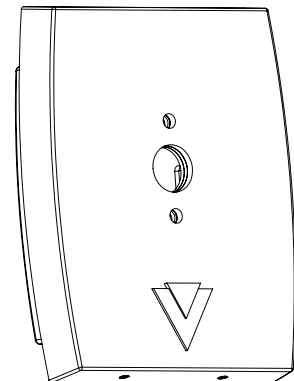
Photocell Receptacle and Shorting Cap



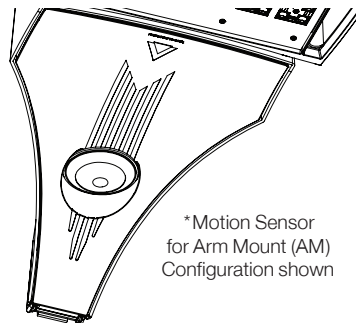
Round Pole Plate Adaptor (RPP) - Round Pole Plate Adaptor (RPP) to be used with round pole.



Cast Wall Plate - Arm Mount Wall Plate is needed to wall mount the VMX-II.

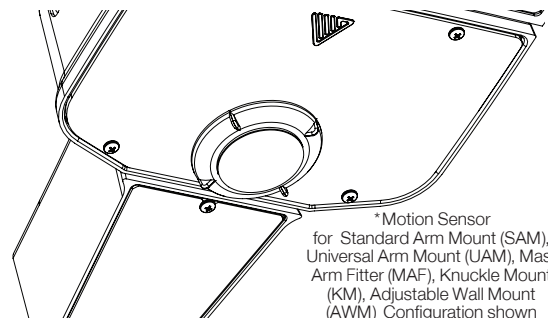


Motion Sensor -  
\*This option will require one FSIR 100 remote for programming.



\*Motion Sensor for Arm Mount (AM) Configuration shown

Motion Sensor (for SAM, UAM, MAF, KM, AWM) -  
\*This option will require one FSIR 100 remote for programming.



\*Motion Sensor for Standard Arm Mount (SAM), Universal Arm Mount (UAM), Mast Arm Fitter (MAF), Knuckle Mount (KM), Adjustable Wall Mount (AWM) Configuration shown

The FSP-211 by Legrand is integrated into the VMX housing and provides multi-level control based on motion and/or daylight contribution.

**Lens Coverage Patterns:**

WSC-8	360° lens, maximum coverage 48'; diameter from 8' height
WSC-20	360° lens, maximum coverage 48'; diameter from 20' height
WSC-40	360° lens, maximum coverage 100'; diameter from 40' height

**Motion Sensor Default Settings**

High Mode	0 Volts
Low Mode	1 Volts
Time Delay	5 Minutes
Cut Off	1 Hour
Sensitivity	Maximum
Hold Off Set Point	4ft
Candles	N/A
Ramp Up	None
Fade Down	None
Force Off Set Point With Occupied	Disable



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

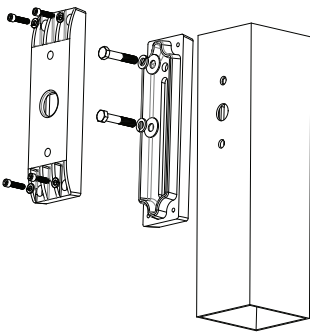
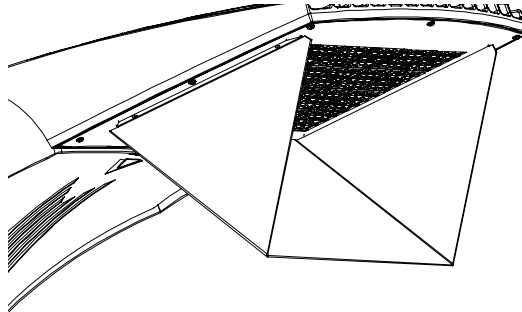
Notes:

**Type:****P1-OPT 3**

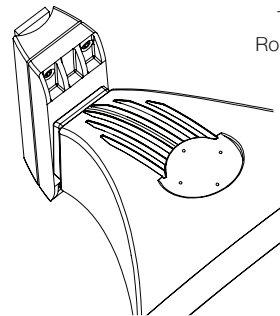
SEATAC-WWA21-113425

LED Specifications **VMX-II**

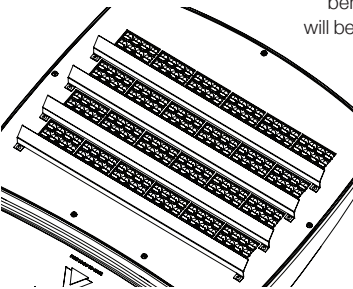
House Shield - Provides solid back light cutoff

**UPMA**

The Universal Pole Mount Adaptor is ideal for retrofit applications with existing square poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

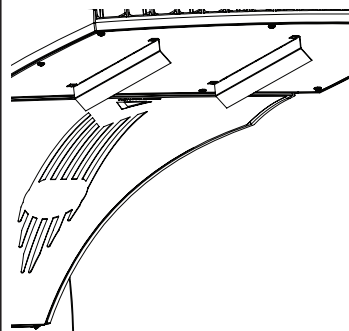
**UPMA-R**

The Universal Pole Mount Adaptor Round is ideal for retrofit applications with existing round poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

**CLS**

The Back Side Cutoff Louver Shield will reduce light output behind the fixture, all of the light will be focused in front of the VMX.

\*Not to be used with KM

**LCLS**

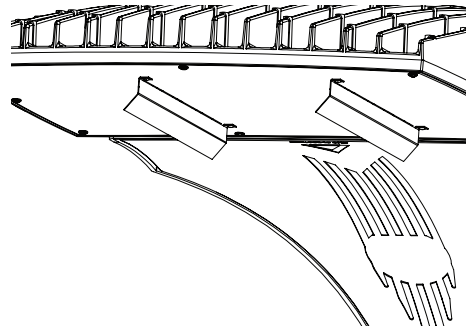
The Left Side Cutoff Louver Shield will reduce light output on the left side of the fixture, all of the light be focused on the right side of the VMX.

\*Not to be used with KM

**RCLS**

The Right Side Cutoff Louver Shield will reduce light output on the right side of the fixture, all of the light be focused on the left side of the VMX.

\*Not to be used with KM





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

# VMX-II LED Specifications

**CONFIRM OUTPUT**

VMX-II - 3K Lumen Data										
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	7311	6909	7243	6994	7321	7506	7333	7191	52
	530	9808	9269	9717	9383	9822	10070	9838	9648	78
	700	12786	12084	12668	12232	12805	13128	12826	12578	106
	1050	17509	16547	17347	16750	17534	17977	17563	17223	161
64	350	9309	8798	9223	8906	9323	9558	9338	9158	70
	530	13763	13007	13636	13167	13783	14131	13806	13539	107
	700	16888	15960	16732	16156	16912	17339	16940	16612	142
	1050	23222	21946	23007	22215	23255	23843	23293	22843	218
80	350	11512	10880	11406	11013	11529	11820	11547	11324	87
	530	16640	15726	16486	15918	16664	17084	16691	16368	132
	700	20813	19670	20621	19911	20844	21370	20878	20474	177
	1050	29027	27433	28759	27769	29069	29803	29117	28554	272
96	350	13714	12961	13588	13120	13734	14081	13757	13491	104
	530	19516	18444	19336	18670	19544	20038	19576	19198	157
	700	24739	23380	24511	23667	24775	25400	24815	24336	212
VMX-II - 4K Lumen Data										
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	7695	7273	7624	7362	7707	7901	7719	7627	52
	530	10324	9757	10229	9876	10339	10600	10356	10232	78
	700	13459	12720	13335	12876	13479	13819	13501	13340	106
	1050	18430	17418	18260	17631	18457	18923	18487	18267	161
64	350	9799	9261	9709	9375	9814	10061	9830	9713	70
	530	14487	13692	14354	13860	14509	14875	14532	14359	107
	700	17777	16800	17612	17006	17802	18252	17831	17619	142
	1050	24444	23101	24218	23385	24479	25097	24519	24227	218
80	350	12118	11452	12006	11593	12135	12442	12155	12010	87
	530	17515	16553	17354	16756	17541	17984	17569	17360	132
	700	21909	20705	21707	20959	21941	22495	21977	21715	177
	1050	30555	28876	30273	29231	30599	31372	30649	30284	272
96	350	14436	13643	14303	13811	14457	14822	14481	14308	104
	530	20543	19415	20354	19653	20573	21092	20607	20361	157
	700	26041	24611	25801	24912	26079	26737	26122	25810	212
VMX-II - 5K Lumen Data										
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	7384	6979	7316	7064	7395	7582	7407	7264	52
	530	9907	9362	9815	9477	9921	10172	9937	9745	78
	700	12915	12206	12796	12356	12934	13261	12955	12705	106
	1050	17685	16714	17522	16919	17711	18158	17740	17397	161
64	350	9403	8887	9317	8996	9417	9655	9433	9250	70
	530	13902	13138	13774	13300	13922	14274	13945	13675	107
	700	17058	16121	16901	16319	17083	17514	17111	16780	142
	1050	23456	22168	23240	22440	23490	24083	23529	23074	218
80	350	11628	10989	11521	11124	11645	11939	11664	11439	87
	530	16808	15884	16653	16079	16832	17257	16860	16534	132
	700	21024	19869	20830	20112	21054	21586	21089	20681	177
	1050	29320	27710	29050	28050	29363	30104	29411	28842	272
96	350	13853	13092	13725	13253	13873	14223	13896	13627	104
	530	19713	18630	19531	18859	19742	20240	19774	19392	157
	700	24989	23616	24758	23906	25025	25657	25066	24581	212





**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:**

**P1-OPT 3**

SEATAC-WWA21-113425

## LED Specifications **VMX-II**

VMX-II - 3K Lumen Per Watt Data									
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR
48	350	141	133	139	134	141	144	141	138
	530	125	118	124	120	125	129	126	123
	700	121	114	120	115	121	124	121	119
	1050	109	103	108	104	109	112	109	107
64	350	133	126	132	127	133	137	133	131
	530	129	122	127	123	129	132	129	127
	700	119	112	118	114	119	122	119	117
	1050	107	101	106	102	107	109	107	105
80	350	133	125	131	127	133	136	133	130
	530	126	119	125	121	126	130	127	124
	700	118	111	117	112	118	121	118	116
	1050	107	101	106	102	107	110	107	105
96	350	132	125	131	127	132	136	133	130
	530	125	118	123	119	125	128	125	123
	700	117	110	116	112	117	120	117	115
VMX-II - 4K Lumen Per Watt Data									
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR
48	350	148	140	147	142	148	152	148	147
	530	132	125	131	126	132	135	132	131
	700	127	120	126	121	127	130	127	126
	1050	114	108	113	110	115	118	115	113
64	350	140	132	139	134	140	144	140	139
	530	135	128	134	130	136	139	136	134
	700	125	118	124	120	125	129	126	124
	1050	112	106	111	107	112	115	112	111
80	350	140	132	138	133	140	143	140	138
	530	133	126	132	127	133	136	133	132
	700	124	117	123	118	124	127	124	123
	1050	112	106	111	108	113	115	113	111
96	350	139	132	138	133	139	143	140	138
	530	131	124	130	125	131	135	132	130
	700	123	116	122	118	123	126	123	122
VMX-II - 5K Lumen Per Watt Data									
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR
48	350	142	134	141	136	142	146	142	140
	530	127	120	125	121	127	130	127	124
	700	122	115	121	117	122	125	122	120
	1050	110	104	109	105	110	113	110	108
64	350	134	127	133	129	135	138	135	132
	530	130	123	129	124	130	133	130	128
	700	120	114	119	115	120	123	121	118
	1050	108	102	107	103	108	110	108	106
80	350	134	127	133	128	134	137	134	132
	530	128	121	126	122	128	131	128	125
	700	119	112	118	114	119	122	119	117
	1050	108	102	107	103	108	111	108	106
96	350	134	126	132	128	134	137	134	131
	530	126	119	125	120	126	129	126	124
	700	118	111	117	113	118	121	118	116





**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH  
**Notes:**

**Type:**  
**P1-OPT 3**

SEATAC-WWA21-113425

## VMX-II LED Specifications

VMX-II - 3K BUG Data																											
LED's	mA	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type T5WR				
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		
48	350	2	0	2	2	0	2	1	0	2	2	0	2	1	0	1	3	0	1	3	0	2	3	0	2		
	530	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	700	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	3	0	2	4	0	2	4	0	2		
	1050	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
64	350	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	530	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
80	350	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	530	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	1050	5	0	4	3	0	4	3	0	4	3	0	4	3	0	3	5	0	3	5	0	3	5	0	4		
96	350	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	530	4	0	4	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	5	0	3		
	700	4	0	4	3	0	4	3	0	4	3	0	4	3	0	2	4	0	2	5	0	3	5	0	3		
VMX-II - 4K BUG Data																											
LED's	mA	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type T5WR				
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		
48	350	3	0	3	2	0	2	1	0	2	2	0	2	1	0	1	3	0	1	3	0	2	3	0	2		
	530	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	700	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	5	0	3		
64	350	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	530	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	4	3	0	4	3	0	4	3	0	4	3	0	2	4	0	2	5	0	3	5	0	3		
80	350	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	530	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	1050	5	0	4	3	0	5	3	0	4	3	0	4	3	0	3	5	0	3	5	0	4	5	0	4		
96	350	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	530	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	700	4	0	4	3	0	4	3	0	4	3	0	4	3	0	3	5	0	3	5	0	3	5	0	3		
VMX-II - 5K BUG Data																											
LED's	mA	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type T5WR				
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		
48	350	2	0	2	2	0	2	1	0	2	2	0	2	1	0	1	3	0	1	3	0	2	3	0	2		
	530	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	700	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
64	350	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	530	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
80	350	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	530	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	1050	5	0	4	3	0	4	3	0	4	3	0	4	3	0	3	5	0	3	5	0	4	5	0	4		
96	350	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	530	4	0	4	3	0	3	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	700	4	0	4	3	0	4	3	0	4	3	0	4	3	0	2	4	0	2	5	0	3	5	0	3		



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

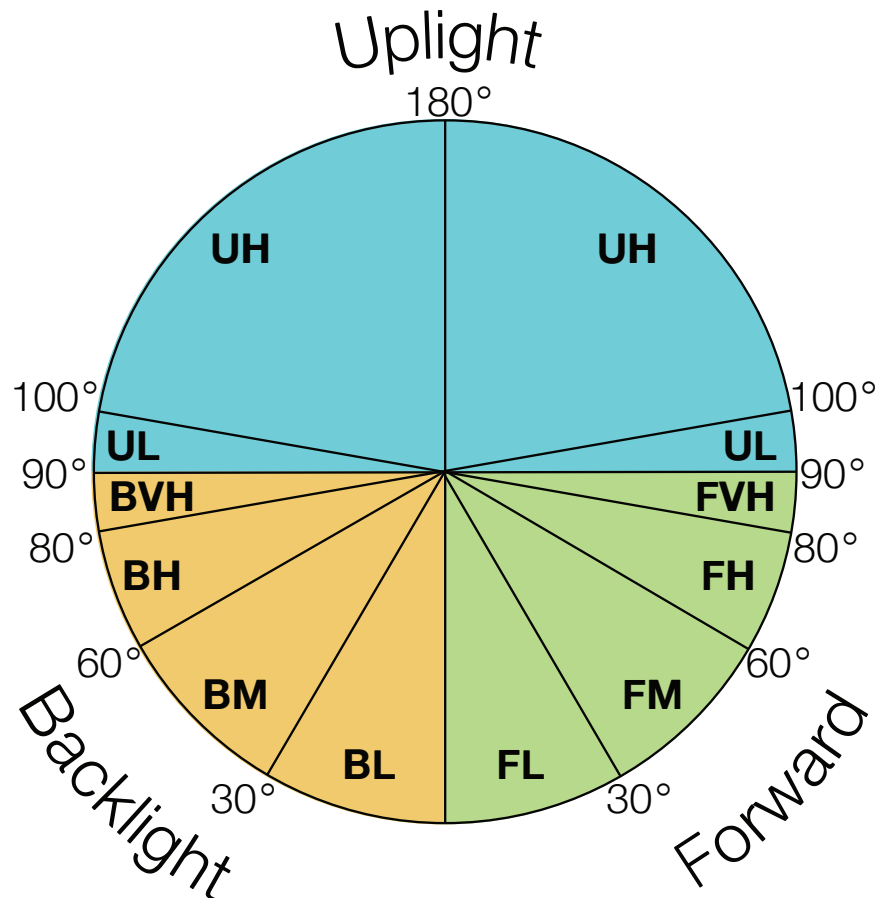
Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

LED Specifications **VMX-II****Bug Rating -**

The subzones are individually rated on a scale from 0 to 5, going from lowest to highest luminous flux. The highest rating of a subzone is considered the overall rating for that zone, and these readings are compiled into the BUG lighting classification: for example, B3 U1 G0. The tables below, which are based on the standards established by the IES, show the thresholds for each subzone.





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

# VMX-II LED Specifications

VMX-II Cutoff Louver Shield - 3K Lumen Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	4839	4388	4668	4666	5514	4472	3980	3932	52
	530	6491	5886	6262	6260	7398	6000	5339	5275	78
	700	8463	7674	8164	8162	9645	7822	6961	6878	106
	1050	11589	10508	11180	11176	13207	10710	9531	9418	160
64	350	6162	5587	5944	5942	7022	5695	5068	5007	73
	530	9109	8260	8788	8785	10382	8419	7492	7403	106
	700	11178	10135	10783	10779	12739	10331	9193	9084	140
	1050	15370	13937	14828	14822	17516	14205	12641	12491	218
80	350	7619	6909	7351	7348	8684	7042	6267	6192	88
	530	11013	9987	10625	10621	12551	10179	9058	8950	131
	700	13776	12492	13290	13285	15700	12732	11330	11195	176
	1050	19212	17421	18535	18528	21895	17757	15801	15613	274
96	350	9077	8231	8757	8754	10345	8389	7466	7377	104
	530	12917	11713	12462	12457	14721	11939	10624	10497	157
	700	16374	14848	15797	15791	18661	15134	13467	13307	212
VMX-II Cutoff Louver Shield - 4K Lumen Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	5093	4619	4914	4912	5805	4707	4189	4139	52
	530	6833	6196	6592	6590	7787	6315	5620	5553	78
	700	8908	8078	8594	8591	10152	8233	7327	7240	106
	1050	12198	11061	11768	11764	13902	11274	10033	9913	160
64	350	6486	5881	6257	6255	7392	5995	5334	5271	73
	530	9589	8695	9251	9247	10928	8862	7887	7793	106
	700	11766	10669	11351	11347	13409	10874	9677	9562	140
	1050	16179	14670	15608	15602	18438	14953	13307	13148	218
80	350	8020	7273	7738	7735	9141	7413	6597	6518	88
	530	11593	10512	11184	11180	13212	10715	9535	9421	131
	700	14501	13149	13989	13984	16526	13402	11927	11784	176
	1050	20224	18338	19510	19503	23048	18691	16633	16435	274
96	350	9555	8664	9218	9215	10889	8831	7859	7765	104
	530	13597	12329	13117	13113	15496	12567	11183	11050	157
	700	17236	15629	16628	16622	19643	15930	14176	14007	212
VMX-II Cutoff Louver Shield - 5K Lumen Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	5197	4713	5014	5012	5923	4804	4275	4224	52
	530	6973	6322	6727	6724	7946	6444	5735	5666	78
	700	9090	8243	8770	8766	10360	8401	7476	7387	106
	1050	12447	11287	12008	12004	14186	11504	10238	10116	160
64	350	6618	6001	6385	6383	7543	6117	5443	5379	73
	530	9785	8872	9439	9436	11151	9043	8047	7952	106
	700	12006	10887	11583	11578	13683	11096	9875	9757	140
	1050	16509	14970	15927	15921	18814	15258	13578	13416	218
80	350	8184	7421	7895	7893	9327	7564	6731	6651	88
	530	11830	10727	11412	11408	13482	10933	9729	9614	131
	700	14797	13417	14275	14270	16863	13676	12170	12025	176
	1050	20636	18712	19908	19901	23518	19073	16973	16770	274
96	350	9750	8841	9406	9403	11112	9011	8019	7924	104
	530	13875	12581	13385	13380	15812	12823	11411	11275	157
	700	17588	15948	16967	16961	20044	16255	14465	14293	212






**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

Type:

**P1-OPT 3**

SEATAC-WWA21-113425

LED Specifications **VMX-II**

VMX-II Cutoff Louver Shield - 3K Lumen Per Watt Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	93	84	90	90	106	86	77	76	52
	530	83	75	80	80	94	77	68	67	78
	700	80	72	77	77	91	74	66	65	106
	1050	72	66	70	70	83	67	60	59	160
64	350	85	77	82	82	96	78	70	69	73
	530	86	78	83	83	98	79	71	70	106
	700	80	72	77	77	91	74	66	65	140
	1050	71	64	68	68	80	65	58	57	218
80	350	86	78	83	83	98	80	71	70	88
	530	84	76	81	81	96	77	69	68	131
	700	78	71	76	75	89	72	64	64	176
	1050	70	64	68	68	80	65	58	57	274
96	350	88	79	84	84	100	81	72	71	104
	530	82	75	80	80	94	76	68	67	157
	700	77	70	75	74	88	71	64	63	212
VMX-II Cutoff Louver Shield - 4K Lumen Per Watt Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	98	89	95	94	112	91	81	80	52
	530	87	79	84	84	99	81	72	71	78
	700	84	76	81	81	96	78	69	68	106
	1050	76	69	74	74	87	70	63	62	160
64	350	89	81	86	86	101	82	73	72	73
	530	90	82	87	87	103	83	74	73	106
	700	84	76	81	81	96	78	69	68	140
	1050	74	67	72	72	85	69	61	60	218
80	350	91	82	88	88	104	84	75	74	88
	530	88	80	85	85	101	82	73	72	131
	700	82	75	79	79	94	76	68	67	176
	1050	74	67	71	71	84	68	61	60	274
96	350	92	84	89	89	105	85	76	75	104
	530	87	79	84	84	99	80	71	71	157
	700	81	74	78	78	93	75	67	66	212
VMX-II Cutoff Louver Shield - 5K Lumen Per Watt Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	100	91	96	96	114	92	82	81	52
	530	89	81	86	86	101	82	73	72	78
	700	86	78	83	83	98	79	71	70	106
	1050	78	71	75	75	89	72	64	63	160
64	350	91	82	88	88	104	84	75	74	73
	530	92	84	89	89	105	85	76	75	106
	700	86	78	83	83	98	79	71	70	140
	1050	76	69	73	73	86	70	62	62	218
80	350	93	84	89	89	106	86	76	75	88
	530	90	82	87	87	103	83	74	73	131
	700	84	76	81	81	96	78	69	68	176
	1050	75	68	73	73	86	70	62	61	274
96	350	94	85	91	91	107	87	77	76	104
	530	89	80	85	85	101	82	73	72	157
	700	83	75	80	80	95	77	68	67	212



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

# VMX-II LED Specifications

VMX-II Cutoff Louver Shield - 3K BUG Data *Not to be used with KM																										
# of LEDs	Current (mA)	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type 5WR			Watts
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
48	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	1	0	1	1	0	1	52
	530	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	2	0	2	78
	700	2	0	2	1	0	3	2	0	2	1	0	2	1	0	2	2	0	2	2	0	2	2	0	2	106
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	160
64	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	2	0	2	73
	530	3	0	3	1	0	3	2	0	2	2	0	3	1	0	2	2	0	2	2	0	2	2	0	2	106
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	2	0	2	2	0	2	140
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	3	0	2	3	0	3	3	0	3	218
80	350	2	0	2	1	0	3	1	0	2	1	0	2	1	0	2	2	0	1	2	0	2	2	0	2	88
	530	3	0	3	2	0	3	2	0	3	2	0	3	1	0	3	2	0	2	2	0	2	2	0	2	131
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	176
	1050	3	0	4	2	0	4	3	0	3	3	0	4	2	0	3	3	0	3	3	0	3	3	0	3	274
96	350	3	0	3	1	0	3	2	0	2	2	0	3	1	0	2	2	0	2	2	0	2	2	0	2	104
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	157
	700	3	0	3	2	0	3	3	0	3	2	0	3	2	0	3	3	0	2	3	0	3	3	0	3	212
VMX-II Cutoff Louver Shield - 4K BUG Data *Not to be used with KM																										
# of LEDs	Current (mA)	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type 5WR			Watts
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
48	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	1	0	1	1	0	1	52
	530	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	2	0	1	2	0	2	2	0	2	78
	700	3	0	3	1	0	3	2	0	2	2	0	3	1	0	2	2	0	2	2	0	2	2	0	2	106
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	160
64	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	2	0	2	73
	530	3	0	3	1	0	3	2	0	3	2	0	3	1	0	2	2	0	2	2	0	2	2	0	2	106
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	140
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	3	0	2	3	0	3	3	0	3	218
80	350	2	0	2	1	0	3	1	0	2	1	0	2	1	0	2	2	0	2	2	0	2	2	0	2	88
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	131
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	176
	1050	3	0	4	2	0	4	3	0	3	3	0	4	2	0	3	3	0	3	3	0	3	3	0	3	274
96	350	3	0	3	1	0	3	2	0	3	2	0	3	1	0	2	2	0	2	2	0	2	2	0	2	104
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	157
	700	3	0	3	2	0	4	3	0	3	2	0	3	2	0	3	3	0	2	3	0	3	3	0	3	212
VMX-II Cutoff Louver Shield - 5K BUG Data *Not to be used with KM																										
# of LEDs	Current (mA)	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type 5WR			Watts
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
48	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	1	0	1	1	0	1	52
	530	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	2	0	1	2	0	2	2	0	2	78
	700	3	0	3	1	0	3	2	0	2	2	0	3	1	0	2	2	0	2	2	0	2	2	0	2	106
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	160
64	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	2	0	2	73
	530	3	0	3	1	0	3	2	0	3	2	0	3	1	0	3	2	0	2	2	0	2	2	0	2	106
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	140
	1050	3	0	3	2	0	3	3	0	3	2	0	3	2	0	3	3	0	2	3	0	3	3	0	3	218
80	350	2	0	2	1	0	3	1	0	2	1	0	2	1	0	2	2	0	2	2	0	2	2	0	2	88
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	131
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	176
	1050	3	0	4	3	0	4	3	0	4	3	0	4	2	0	3	3	0	3	3	0	3	3	0	3	274
96	350	3	0	3	1	0	3	2	0	3	2	0	3	1	0	3	2	0	2	2	0	2	2	0	2	104
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	2	3	0	3	157
	700	3	0	3	2	0	4	3	0	3	3	0	3	2	0	3	3	0	2	3	0	3	3	0	3	212



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

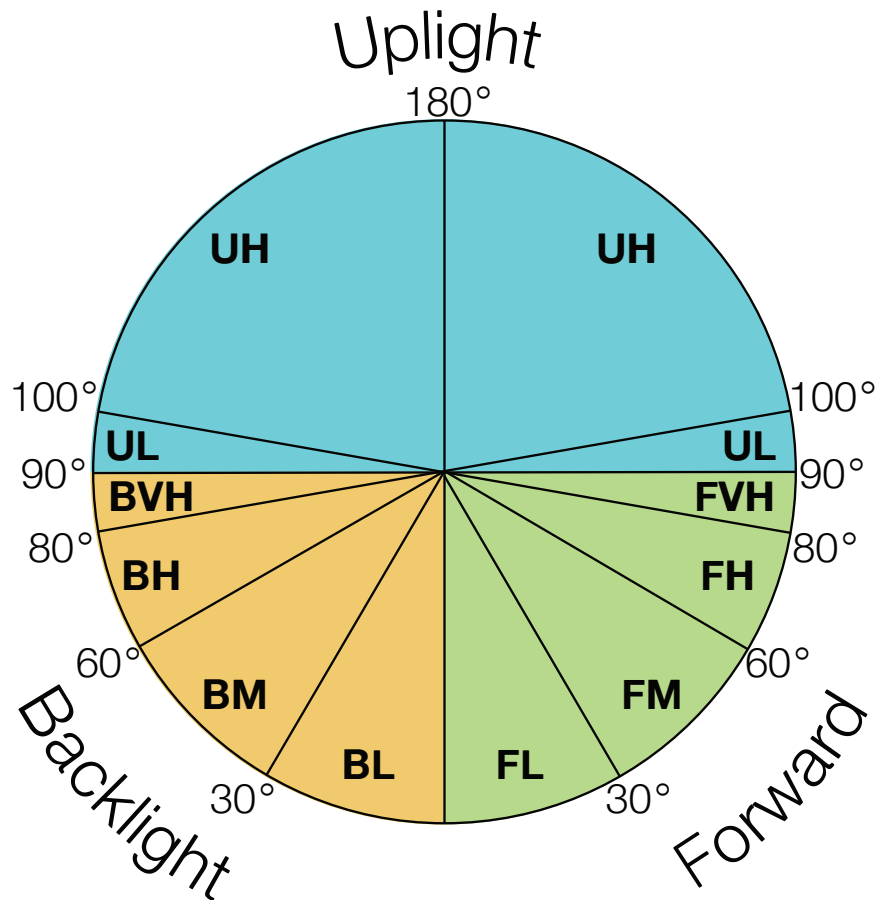
Notes:

**Type:****P1-OPT 3**

SEATAC-WWA21-113425

LED Specifications **VMX-II****Bug Rating -**

The subzones are individually rated on a scale from 0 to 5, going from lowest to highest luminous flux. The highest rating of a subzone is considered the overall rating for that zone, and these readings are compiled into the BUG lighting classification: for example, B3 U1 G0. The tables below, which are based on the standards established by the IES, show the thresholds for each subzone.





**Job Name:**

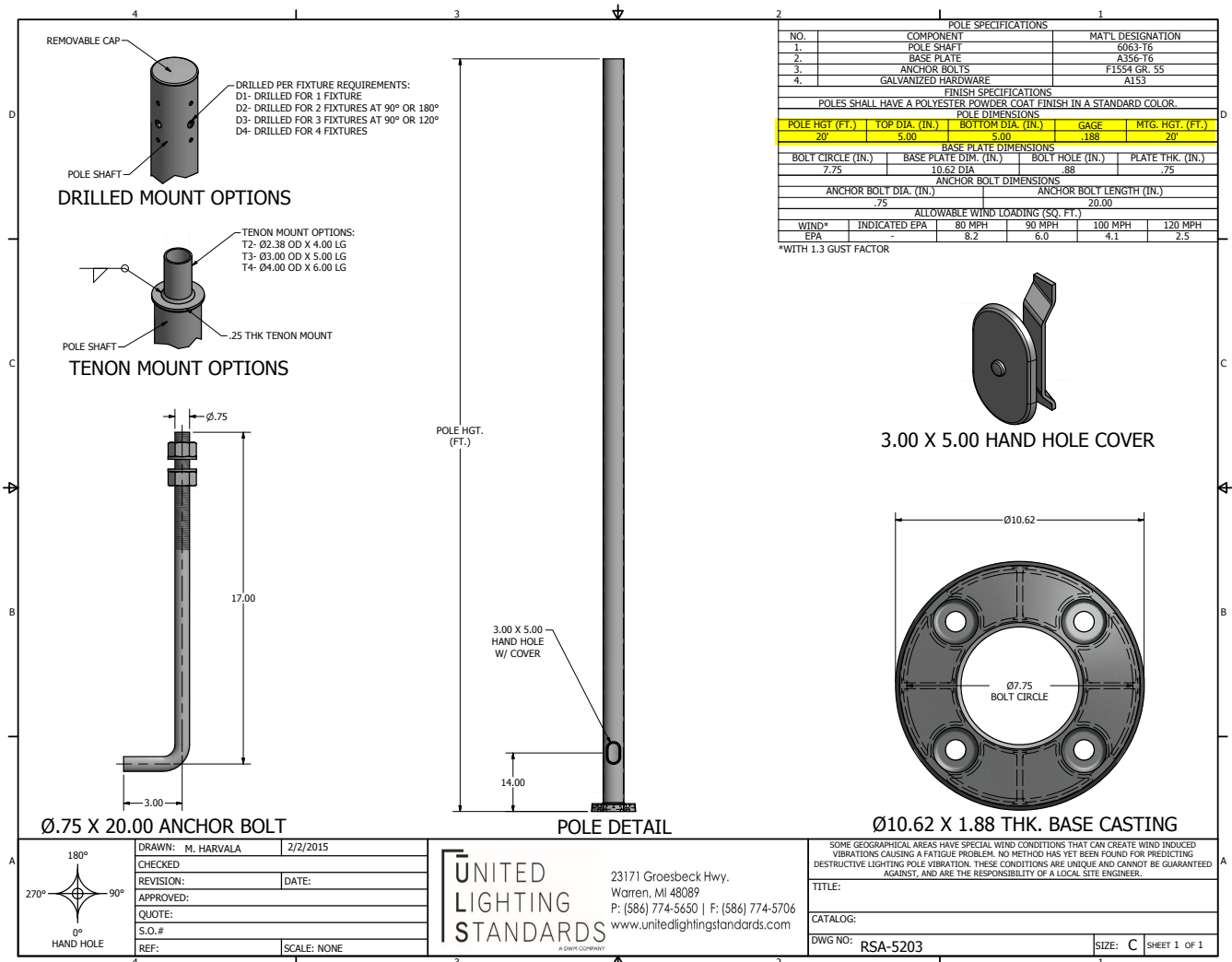
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
RSA-5203-FINISH

Notes:

**Type:****P1-POLE**

SEATAC-WWA21-113425





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

RSA-5203-FINISH

Notes:

**Type:****P1-POLE**

SEATAC-WWA21-113425



www.unitedlightingstandards.com

**POLE ORDERING GUIDE****ORDER NUMBER TEMPLATE****Example Order Number**

Fixture				Mounting Type	Fixture Mounting Arrangement	Finish	Options			Accessories		
Brand	Product	Number					Design	Orientation	Height From Base	Design	Orientation	Height From Base
				AB	T2	DB	WB-15	@90	10'	FH	@180	9'

**Build Your Order Number**

Fixture				Mounting Type	Fixture Mounting Arrangement	Finish	Options			Accessories		
Brand	Product	Number					Design	Orientation	Height From Base	Design	Orientation	Height From Base

**Mounting Type**

AB = Anchor Base

EMB = Embedded (Direct Burial)

**Fixture Mounting Arrangement**

D1      D4  
D2@90   T2  
D2@180   T2.5  
D3@90   T3  
D3@120\*   T4

*\*Round poles only**Refer to the Mounting Orientation Guide on the next page of this file.***Finish**

WH = White

TWH = Textured White

DB = Dark Bronze

TMB = Textured Medium Bronze

HB = Harvest Bronze

NB = New Bronze

SL = Silver

MGY = Medium Gray

GR = Gray

TGR = Textured Gray

GM = Graphite Metallic

DP = Dark Platinum

MA = Matte Aluminum

PSP = Platinum Silver

BK = Black

TBK = Textured Black

MG = Moss Green

*Contact us for custom colors.***Options**

CMB = Camera Mounting Bracket  
CMP = Camera Mounting Plate  
WB-15 = Welded Bracket  
WC = Welded Coupling (denote size)  
WN = Welded Nipple (denote size)  
Festoon = Festoon Provision  
CSBC = Custom Steel Base Cover  
VD = Vibration Dampener  
GFCI/IUC = Ground Fault Circuit Interrupter with In-Use Cover  
UL = UL Listed\*\*

*\*See our online product catalog for complete catalog numbers of these options and accessories.**\*\* UL Listed labeling is available for catalog steel and aluminum poles—both Commercial & Industrial and Roadway. UL Listed labeling is not available for brackets. UL Listing must be specified at the time of order.**Note: N/A = Not Applicable***Accessories**

TB = Transformer Base\*  
ABS-BC = ABS Base Cover\*  
LW = Lowering Winch  
LW-ELECTRIC = Electric Lowering Winch  
BA = Banner Arm  
FH = Flag Holder  
PTTA = Pole Top Tenon Adapter\*



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

GLEON-SAX-X-730-U-TX-FINISH

Notes:

**Type:****P2**

SEATAC-WWA21-113425

Project		Catalog #		Type	
Prepared by		Notes		Date	



## McGraw-Edison

### GLEON Galleon

#### Area / Site Luminaire

**Typical Applications**

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

#### Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Distributions [page 4](#)
- Product Specifications [page 4](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 9](#)

#### Product Certifications



#### Product Features



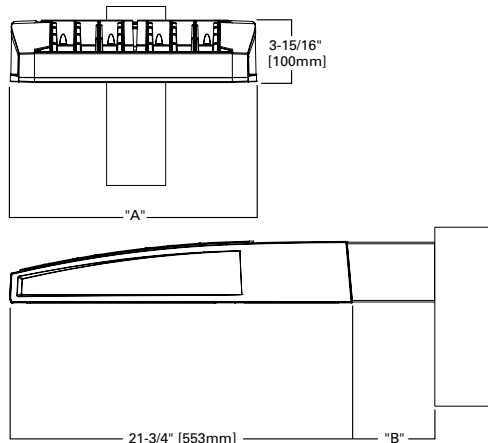
#### Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

#### Connected Systems

- WaveLinx
- Enlighted

#### Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length <sup>1</sup>	"B" Quick Mount Arm Length	"B" Quick Mount Extended Arm Length
1-4	15-1/2"	7"	10"	10-5/8"	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	--
9-10	33-3/4"	7"	16"	--	--

**NOTES:**  
For arm selection requirements and additional line art, see Mounting Details section.



McGraw-Edison

GLEON Galleon


Ordering Information

SAMPLE NUMBER: GLEON-SA4C-740-U-T4FT-GM

CONFIRM  
DISTRIBUTION

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GLEON=Galleon	SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares SA5=5 Squares <sup>4</sup> SA6=6 Squares SA7=7 Squares <sup>3</sup> SA8=8 Squares <sup>3</sup> SA9=9 Squares <sup>4</sup> SA0=10 Squares <sup>6</sup>	A=600mA B=800mA C=1000mA D=1200mA <sup>16</sup>	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm <sup>14,16</sup>	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>7,8</sup> 9=347V <sup>7</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>9</sup> MA=Mast Arm Adapter <sup>10</sup> WM=Wall Mount QM=Quick Mount Arm (Standard Length) <sup>11</sup> QMEA=Quick Mount Arm (Extended Length) <sup>12</sup>	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
	CONFIRM OUTPUT		CONFIRM FINISH				
Options (Add as Suffix)			Controls and Systems Options (Add as Suffix)			Accessories (Order Separately)	
<b>DIM</b> =External 0-10V Dimming Leads <sup>19,20</sup> <b>F</b> =Single Fuse (120, 277 or 347V Specify Voltage) <b>FF</b> =Double Fuse (208, 240 or 480V Specify Voltage) <b>20K</b> =Series 20KV UL 1449 Surge Protective Device <b>2L</b> =Two Circuits <sup>17,18</sup> <b>HA</b> =50°C High Ambient <b>HSS</b> =Installed House Side Shield <sup>28</sup> <b>GRSBK</b> =Glare Reducing Shield, Black <sup>23</sup> <b>GRSWH</b> =Glare Reducing Shield, White <sup>23</sup> <b>LCF</b> =Light Square Trim Painted to Match Housing <sup>27</sup> <b>MT</b> =Installed Mesh Top <b>TH</b> =Tool-less Door Hardware <b>CC</b> =Coastal Construction finish <sup>3</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>CE</b> =CE Marking <sup>29</sup> <b>AHD145</b> =After Hours Dim, 5 Hours <sup>22</sup> <b>AHD245</b> =After Hours Dim, 6 Hours <sup>22</sup> <b>AHD255</b> =After Hours Dim, 7 Hours <sup>22</sup> <b>AHD355</b> =After Hours Dim, 8 Hours <sup>22</sup> <b>DALI</b> =DALI Drivers			<b>BPC</b> =Button Type Photocontrol <b>PR</b> =NEMA 3-PIN Photocontrol Receptacle <b>PR7</b> =NEMA 7-PIN Photocontrol Receptacle <sup>21</sup> <b>SPB2</b> =Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting <sup>34</sup> <b>SPB4</b> =Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting <sup>34</sup> <b>MS-L20</b> =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>24</sup> <b>MS-L40W</b> =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>24</sup> <b>MS/X-L20</b> =Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>24,25</sup> <b>MS/X-L40W</b> =Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>24,25</sup> <b>MS/DIM-L20</b> =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>24</sup> <b>MS/DIM-L40W</b> =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>24</sup> <b>ZW</b> =WaveLinX Module and 4-PIN Receptacle <b>ZD</b> =WaveLinX Module with DALI driver and 4-PIN Receptacle <b>SWPD4XX</b> =WaveLinX Sensor Only, 7'-15' <sup>13,32,33</sup> <b>SWPD5XX</b> =WaveLinX Sensor Only, 15'-40' <sup>13,32,33</sup> <b>WOBXX</b> =WaveLinX Sensor with Bluetooth, 7'-15' <sup>13,32</sup> <b>WOFXX</b> =WaveLinX Sensor with Bluetooth, 15'-40' <sup>13,32</sup> <b>LWR-LW</b> =Enlightened Sensor, 8 - 16' Mounting Height <sup>26</sup> <b>LWR-LN</b> =Enlightened Sensor, 16 - 40' Mounting Height <sup>26</sup> <b>DIM10-MS/DIM-L08</b> =Synapse Occupancy Sensor (<8' Mounting) <sup>19</sup> <b>DIM10-MS/DIM-L20</b> =Synapse Occupancy Sensor (9'-20' Mounting) <sup>19</sup> <b>DIM10-MS/DIM-L40</b> =Synapse Occupancy Sensor (21'-40' Mounting) <sup>19</sup>			<b>0A/RA1016</b> =NEMA Photocontrol Multi-Tap - 105-285V <b>0A/RA1027</b> =NEMA Photocontrol - 480V <b>0A/RA1201</b> =NEMA Photocontrol - 347V <b>0A/RA1013</b> =Photocontrol Shorting Cap <b>0A/RA1014</b> =120V Photocontrol <b>MA1252</b> =10kV Surge Module Replacement <b>MA1036-XX</b> =Single Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1037-XX</b> =2@180° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1197-XX</b> =3@120° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1188-XX</b> =4@90° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1189-XX</b> =2@90° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1190-XX</b> =3@90° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1191-XX</b> =2@120° Tenon Adapter for 2-3/8" O.D. Tenon <b>MA1038-XX</b> =Single Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1039-XX</b> =2@180° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1192-XX</b> =3@120° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1193-XX</b> =4@90° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1194-XX</b> =2@90° Tenon Adapter for 3-1/2" O.D. Tenon <b>MA1195-XX</b> =3@90° Tenon Adapter for 3-1/2" O.D. Tenon <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>24</sup> <b>GLEON-MT1</b> =Field Installed Mesh Top for 1-4 Light Squares <b>GLEON-MT2</b> =Field Installed Mesh Top for 5-6 Light Squares <b>GLEON-MT3</b> =Field Installed Mesh Top for 7-8 Light Squares <b>GLEON-MT4</b> =Field Installed Mesh Top for 9-10 Light Squares <b>GLEON-QM</b> =Quick Mount Arm Kit <sup>11</sup> <b>GLEON-QMEA</b> =Quick Mount Extended Arm Kit <sup>12</sup> <b>LS/HSS</b> =Field Installed House Side Shield <sup>28,30</sup> <b>LS/GRSBK</b> =Glare Reducing Shield, Black <sup>23,30</sup> <b>LS/GRSWH</b> =Glare Reducing Shield, White <sup>23,30</sup> <b>LS/PFS</b> =Perimeter Shield, Black <sup>15</sup> <b>WOLC-7P-10A</b> =WaveLinX Outdoor Control Module <sup>19,31</sup> <b>SWPD4-XX</b> =WaveLinX Wireless Sensor, 7 - 15' Mounting Height <sup>13,19,32,33</sup> <b>SWPD5-XX</b> =WaveLinX Wireless Sensor, 15 - 40' Mounting Height <sup>13,19,32,33</sup>	
<b>NOTES:</b> 1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option. 4. Not compatible with MS/4-LXX or MS/1-LXX sensors. 5. Not compatible with extended quick mount arm (QMEA). 6. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8. 480V must utilize Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems.) 9. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10. Factory installed. 11. Maximum 8 light squares. 12. Maximum 6 light squares. 13. Requires ZW or ZD receptacle. 14. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 15. Set of 4 pcs. One set required per Light Square. 16. Not available with HA option. 17. ZL is not available with MS, MS/X or MS/DIM at 347V or 480V. ZL in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18. Not available with Enlightened wireless sensors. 19. Cannot be used with other control options. 20. Low voltage control lead brought out 18" outside fixture. 21. Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23. Not for use with T4FT, T4W or SL4 optics. See IES files for details. 24. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 25. Replace X with number of Light Squares operating in low output mode. 26. Enlightened wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. 27. Not available with house side shield (HSS). 28. Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 29. CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. 30. One required for each Light Square. 31. Requires PR7. 32. Replace XX with sensor color (WH, BZ or BK). 33. WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 34. Smart device with mobile application required to change system defaults. See controls section for details.							

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	D=Standard Dome Camera H=Hi-Res Dome Camera Z=Remote PTZ Camera	C=Cellular, No SIM A=Cellular, AT&T V=Cellular, Verizon S=Cellular, Sprint  R=Cellular, Rogers W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking



**Job Name:**

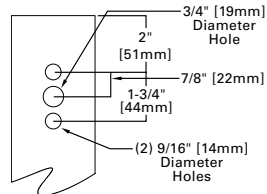
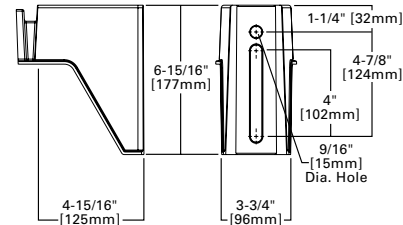
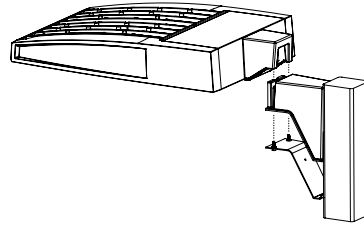
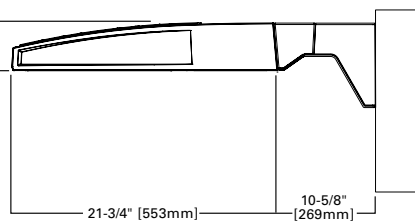
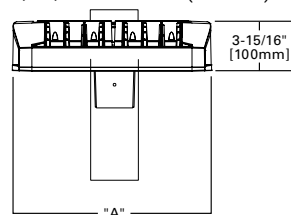
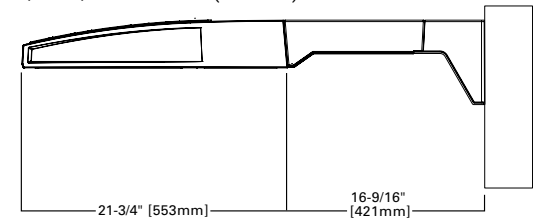
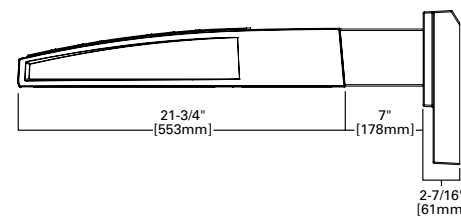
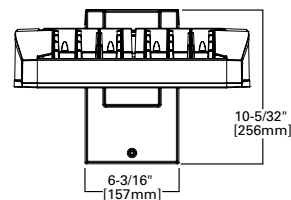
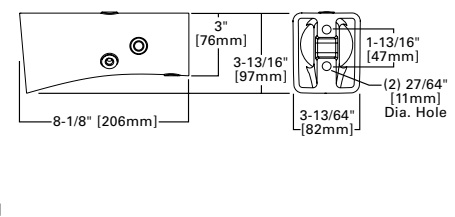
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

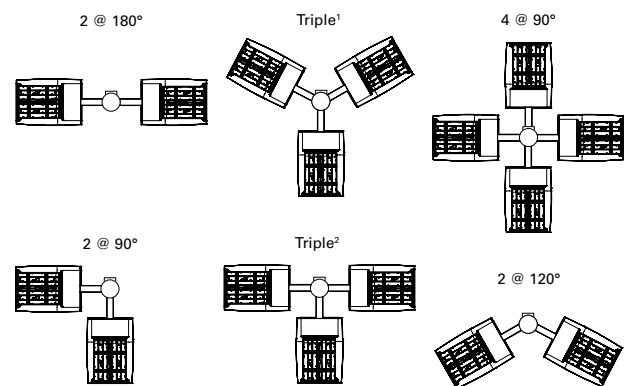
GLEON-SAX-X-730-U-TX-FINISH

**Notes:****Type:****P2**

SEATAC-WWA21-113425

**McGraw-Edison****GLEON Galleon****Mounting Details****Standard Arm (Drilling Pattern)****TYPE "N"****Quick Mount Arm (Includes fixture adapter)****QM Quick Mount Arm (Standard)****QMEA Quick Mount Arm (Extended)****Standard Wall Mount****Mast Arm Mount****Arm Mounting Requirements**

Number of Light Squares	Standard Arm @ 90° Apart	Standard Arm @ 120° Apart	Quick Mount Arm @ 90° Apart	Quick Mount Arm @ 120° Apart
1	Standard	Standard	QM Extended	Quick Mount
2	Standard	Standard	QM Extended	Quick Mount
3	Standard	Standard	QM Extended	Quick Mount
4	Standard	Standard	QM Extended	Quick Mount
5	Extended	Standard	QM Extended	Quick Mount
6	Extended	Standard	QM Extended	Quick Mount
7	Extended	Extended	—	Quick Mount
8	Extended	Extended	—	Quick Mount
9	Extended	Extended	—	—
10	Extended	Extended	—	—



NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

**Fixture Weights and EPAs**

Number of Light Squares	Weight with Standard and Extended Arm (lbs.)	EPA with Standard and Extended Arm (Sq. Ft.)	Weight with Quick Mount Arm (lbs.)	EPA with Quick Mount Arm (Sq. Ft.)	Weight with Quick Mount Extended Arm (lbs.)	EPA with Quick Mount Extended Arm (Sq. Ft.)
1-4	33	0.96	35	1.11	38	1.11
5-6	44	1.00	46	1.11	49	1.11
7-8	54	1.07	56	1.11	—	—
9-10	63	1.12	—	—	—	—



**Job Name:**

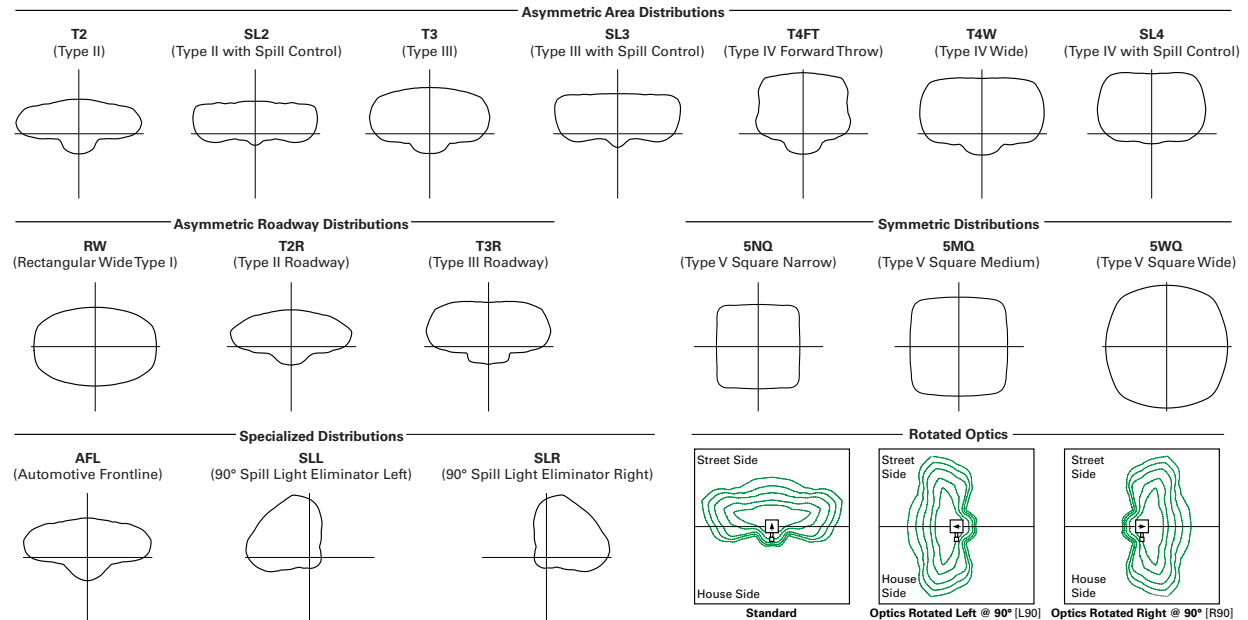
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

GLEON-SAX-X-730-U-TX-FINISH

**Notes:****Type:****P2**

SEATAC-WWA21-113425

**McGraw-Edison****GLEON Galleon****Optical Distributions****Product Specifications****Construction**

- Extruded aluminum driver enclosure
- Heavy-wall, die-cast aluminum end caps
- Die-cast aluminum heat sinks
- Patent pending interlocking housing and heat sink

**Optics**

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 16 optical distributions
- 3 shielding options including HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only)

**Electrical**

- LED drivers are mounted to removable tray

assembly for ease of maintenance

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

**Mounting**

- Standard extruded arm includes internal bolt guides and round pole adapter
- Extended arms (EA and QMEA) may be required in 90° or 120° pole mount configurations, see arm mounting requirements table

- Mast arm (MA) factory installed
- Wall mount (WM) option available
- Quick mount arm (QM and QMEA) includes pole adapter and factory installed fixture mount for fast installation to square or round poles

**Finish**

- Super housing durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

**Warranty**

- Five year warranty

**Energy and Performance Data****Lumen Maintenance (TM-21)**

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

\* Supported by IES TM-21 standards

\*\* Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

**Lumen Multiplier**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97



View GLEON IES files



McGraw-Edison								GLEON Galleon			
Nominal Power Lumens (1.2A)								🔗 Supplemental Performance Guide**			
Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K Lumens	7,972	15,580	23,245	30,714	38,056	45,541	53,857	61,024	68,072	75,366
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	122	119	119	119	120	119	118	118
T2R	4000K Lumens	8,462	16,539	24,680	32,609	40,401	48,348	57,176	64,783	72,266	80,010
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	129	126	126	127	128	127	126	125
T3	4000K Lumens	8,125	15,879	23,693	31,307	38,787	46,417	54,893	62,197	69,381	76,818
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	122	123	122	121	120
T3R	4000K Lumens	8,306	16,232	24,220	32,001	39,651	47,447	56,114	63,580	70,924	78,523
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
T4FT	4000K Lumens	8,173	15,970	23,831	31,488	39,014	46,686	55,212	62,558	69,783	77,261
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	122	124	125	122	122	122	123	122	121	121
T4W	4000K Lumens	8,067	15,764	23,522	31,080	38,510	46,082	54,499	61,751	68,881	76,263
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	120	122	123	120	120	121	122	121	120	119
SL2	4000K Lumens	7,958	15,552	23,206	30,662	37,989	45,462	53,763	60,920	67,952	75,235
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	121	119	119	119	120	119	118	118
SL3	4000K Lumens	8,124	15,877	23,690	31,302	38,784	46,410	54,885	62,189	69,372	76,805
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	121	123	122	121	120
SL4	4000K Lumens	7,719	15,085	22,510	29,741	36,850	44,097	52,148	59,089	65,913	72,977
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	115	117	118	115	115	115	116	116	115	114
5NQ	4000K Lumens	8,380	16,375	24,436	32,287	40,003	47,870	56,610	64,144	71,552	79,221
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	127	128	125	125	125	126	126	124	124
5MQ	4000K Lumens	8,534	16,676	24,885	32,881	40,739	48,752	57,653	65,326	72,868	80,679
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	127	129	130	127	127	128	129	128	127	126
5WQ	4000K Lumens	8,556	16,723	24,951	32,968	40,847	48,881	57,808	65,499	73,063	80,894
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	128	130	131	128	128	128	129	128	127	126
SL/SLR	4000K Lumens	7,140	13,951	20,817	27,506	34,081	40,783	48,231	54,649	60,959	67,492
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	107	108	109	107	107	107	108	107	106	105
RW	4000K Lumens	8,304	16,228	24,215	31,994	39,641	47,437	56,100	63,566	70,907	78,504
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
AFL	4000K Lumens	8,335	16,287	24,302	32,110	39,784	47,610	56,303	63,796	71,163	78,790
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	125	126	125	124	123
* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.											

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



McGraw-Edison						GLEON Galleon					
Nominal Power Lumens (1A)						Supplemental Performance Guide**					
Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K Lumens	7,267	14,201	21,190	28,000	34,692	41,515	49,096	55,627	62,053	68,703
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	126	128	124	124	125	126	125	124	123
T2R	4000K Lumens	7,715	15,077	22,497	29,725	36,829	44,073	52,122	59,056	65,876	72,937
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	133	136	132	132	132	133	133	131	131
T3	4000K Lumens	7,408	14,475	21,598	28,539	35,358	42,313	50,039	56,698	63,246	70,024
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
T3R	4000K Lumens	7,571	14,798	22,078	29,172	36,145	43,253	51,153	57,959	64,653	71,581
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
T4FT	4000K Lumens	7,451	14,559	21,725	28,703	35,564	42,558	50,330	57,027	63,613	70,430
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	129	131	128	127	128	129	128	127	126
T4W	4000K Lumens	7,354	14,371	21,442	28,333	35,105	42,007	49,681	56,291	62,792	69,521
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	127	129	126	126	126	127	126	125	125
SL2	4000K Lumens	7,254	14,178	21,155	27,951	34,631	41,443	49,011	55,533	61,944	68,584
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	125	127	124	124	124	125	125	124	123
SL3	4000K Lumens	7,406	14,474	21,596	28,534	35,355	42,307	50,033	56,690	63,237	70,014
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
SL4	4000K Lumens	7,037	13,751	20,519	27,112	33,592	40,198	47,538	53,864	60,087	66,524
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	119	122	124	120	120	121	122	121	120	119
5NQ	4000K Lumens	7,640	14,928	22,275	29,431	36,465	43,637	51,606	58,472	65,226	72,218
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	132	134	131	131	131	132	131	130	129
5MQ	4000K Lumens	7,779	15,203	22,684	29,973	37,137	44,441	52,555	59,549	66,427	73,545
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	133	133	133	134	134	133	132
5WQ	4000K Lumens	7,800	15,243	22,744	30,052	37,236	44,560	52,697	59,708	66,603	73,742
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	134	133	134	135	134	133	132
SLL/ SLR	4000K Lumens	6,510	12,719	18,977	25,075	31,067	37,176	43,967	49,817	55,569	61,525
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	110	113	114	111	111	112	112	112	111	110
RW	4000K Lumens	7,570	14,793	22,073	29,165	36,137	43,243	51,140	57,945	64,637	71,564
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
AFL	4000K Lumens	7,598	14,847	22,154	29,272	36,267	43,400	51,326	58,156	64,872	71,824
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	129	131	133	130	130	130	131	131	129	129

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



McGraw-Edison
GLEON Galleon

**Nominal Power Lumens (800mA)**

 Supplemental Performance Guide\*\*

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
<b>Nominal Power (Watts)</b>		44	85	124	171	210	249	295	334	374	419
<b>Input Current @ 120V (A)</b>		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
<b>Input Current @ 208V (A)</b>		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
<b>Input Current @ 240V (A)</b>		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
<b>Input Current @ 277V (A)</b>		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
<b>Input Current @ 347V (A)</b>		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
<b>Input Current @ 480V (A)</b>		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
<b>Optics</b>											
<b>T2</b>	4000K Lumens	5,871	11,474	17,121	22,622	28,029	33,542	39,667	44,944	50,134	55,508
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	135	134	135	134	132
<b>T2R</b>	4000K Lumens	6,233	12,181	18,176	24,016	29,756	35,608	42,111	47,714	53,224	58,929
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	142	143	147	140	142	143	143	143	142	141
<b>T3</b>	4000K Lumens	5,986	11,695	17,450	23,057	28,568	34,186	40,430	45,809	51,099	56,576
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
<b>T3R</b>	4000K Lumens	6,117	11,955	17,838	23,569	29,203	34,946	41,328	46,827	52,235	57,832
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
<b>T4FT</b>	4000K Lumens	6,019	11,763	17,551	23,190	28,734	34,384	40,663	46,074	51,396	56,904
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	137	138	142	136	137	138	138	138	137	136
<b>T4W</b>	4000K Lumens	5,942	11,610	17,324	22,891	28,363	33,940	40,138	45,480	50,732	56,169
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	135	137	140	134	135	136	136	136	136	134
<b>SL2</b>	4000K Lumens	5,862	11,454	17,091	22,583	27,980	33,484	39,598	44,867	50,048	55,411
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	134	134	134	134	132
<b>SL3</b>	4000K Lumens	5,985	11,694	17,447	23,053	28,565	34,182	40,424	45,804	51,092	56,568
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
<b>SL4</b>	4000K Lumens	5,685	11,111	16,577	21,905	27,140	32,478	38,409	43,520	48,546	53,748
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	129	131	134	128	129	130	130	130	130	128
<b>5NQ</b>	4000K Lumens	6,172	12,061	17,997	23,778	29,462	35,256	41,694	47,242	52,699	58,347
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	140	142	145	139	140	142	141	141	141	139
<b>5MQ</b>	4000K Lumens	6,285	12,283	18,328	24,217	30,004	35,907	42,462	48,112	53,669	59,421
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	144	144	144	144	142
<b>5WQ</b>	4000K Lumens	6,303	12,317	18,377	24,281	30,085	36,001	42,575	48,241	53,812	59,579
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	145	144	144	144	142
<b>SLL/SLR</b>	4000K Lumens	5,260	10,276	15,332	20,259	25,101	30,037	35,522	40,249	44,898	49,708
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	120	121	124	118	120	121	120	121	120	119
<b>RW</b>	4000K Lumens	6,116	11,952	17,834	23,563	29,196	34,938	41,317	46,817	52,224	57,819
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
<b>AFL</b>	4000K Lumens	6,139	11,996	17,899	23,650	29,302	35,064	41,468	46,987	52,412	58,030
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	140	141	144	138	140	141	141	141	140	138

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



McGraw-Edison
GLEON Galleon

**Nominal Power Lumens (600mA)**
[Supplemental Performance Guide\\*\\*](#)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
<b>Nominal Power (Watts)</b>		34	66	96	129	162	193	226	257	290	323
<b>Input Current @ 120V (A)</b>		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
<b>Input Current @ 208V (A)</b>		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
<b>Input Current @ 240V (A)</b>		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
<b>Input Current @ 277V (A)</b>		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
<b>Input Current @ 347V (A)</b>		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
<b>Input Current @ 480V (A)</b>		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
<b>Optics</b>											
<b>T2</b>	4000K Lumens	4,787	9,357	13,961	18,448	22,856	27,353	32,347	36,651	40,884	45,265
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	142	145	143	141	142	143	143	141	140
<b>T2R</b>	4000K Lumens	5,083	9,934	14,822	19,585	24,266	29,038	34,341	38,911	43,404	48,055
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	150	151	154	152	150	150	152	151	150	149
<b>T3</b>	4000K Lumens	4,880	9,537	14,231	18,803	23,296	27,878	32,970	37,358	41,671	46,137
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	148	146	144	144	146	145	144	143
<b>T3R</b>	4000K Lumens	4,988	9,749	14,547	19,220	23,814	28,497	33,703	38,188	42,598	47,162
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	147	148	152	149	147	148	149	149	147	146
<b>T4FT</b>	4000K Lumens	4,909	9,591	14,312	18,911	23,432	28,040	33,161	37,574	41,913	46,404
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	149	147	145	145	147	146	145	144
<b>T4W</b>	4000K Lumens	4,845	9,468	14,128	18,668	23,130	27,678	32,732	37,088	41,371	45,805
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	143	143	147	145	143	143	145	144	143	142
<b>SL2</b>	4000K Lumens	4,779	9,341	13,937	18,416	22,818	27,305	32,292	36,589	40,813	45,188
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	141	142	145	143	141	141	143	142	141	140
<b>SL3</b>	4000K Lumens	4,879	9,536	14,229	18,800	23,294	27,874	32,965	37,351	41,666	46,130
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	144	144	148	146	144	144	146	145	144	143
<b>SL4</b>	4000K Lumens	4,637	9,059	13,519	17,863	22,132	26,486	31,322	35,490	39,589	43,831
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	136	137	141	138	137	137	139	138	137	136
<b>5NQ</b>	4000K Lumens	5,033	9,835	14,676	19,392	24,026	28,751	34,002	38,526	42,975	47,581
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	148	149	153	150	148	149	150	150	148	147
<b>5MQ</b>	4000K Lumens	5,126	10,015	14,946	19,747	24,468	29,281	34,628	39,236	43,766	48,457
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	151	152	156	153	151	152	153	153	151	150
<b>5WQ</b>	4000K Lumens	5,139	10,043	14,985	19,801	24,533	29,359	34,721	39,339	43,883	48,586
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	151	152	156	153	151	152	154	153	151	150
<b>SLL/SLR</b>	4000K Lumens	4,289	8,380	12,502	16,520	20,469	24,494	28,967	32,823	36,613	40,537
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	126	127	130	128	126	127	128	128	126	126
<b>RW</b>	4000K Lumens	4,987	9,746	14,543	19,215	23,808	28,491	33,695	38,178	42,587	47,151
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	148	151	149	147	148	149	149	147	146
<b>AFL</b>	4000K Lumens	5,007	9,782	14,597	19,285	23,896	28,594	33,817	38,317	42,742	47,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	147	148	152	149	148	148	150	149	147	147

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

GLEON-SAX-X-730-U-TX-FINISH

**Notes:****Type:****P2**

SEATAC-WWA21-113425

**McGraw-Edison****GLEON Galleon****Control Options****0-10V (DIM)**

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

**Photocontrol (BPC, PR and PR7)**

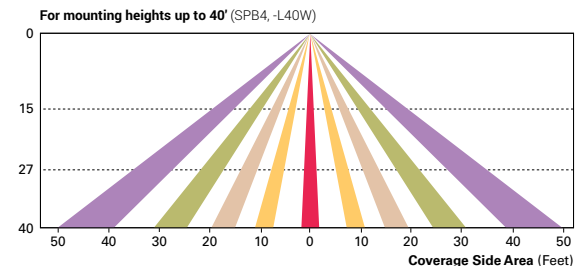
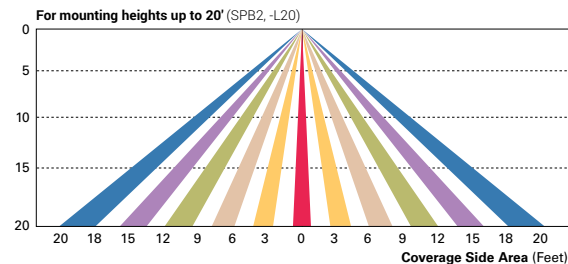
Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

**After Hours Dim (AHD)**

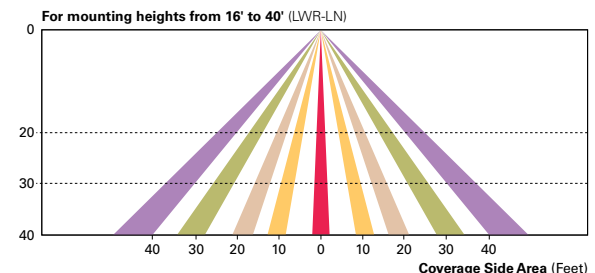
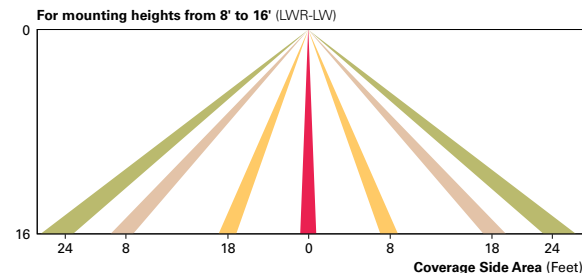
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

**Dimming Occupancy Sensor (SPB, MS/DIM-LXX, MS/X-LXX and MS-LXX)**

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

**Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

**WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)**

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomical or time schedules based on a 7 day week.

**LumenSafe Integrated Network Security Camera (LD)**

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

**Synapse (DIM10)**

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and MS/DC motion sensor; requires additional Synapse system components for operation. Contact Synapse at [www.synapsewireless.com](http://www.synapsewireless.com) for product support, warranty and terms and conditions.



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

**Notes:****Type:****P2-OPT-2**

SEATAC-WWA21-113425

# VLX Array LED Specifications



Project Name:

Catalog Number:

Type:

The new **VLX Array LED** Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines the latest LED Array technology, advanced LED thermal management and provides outdoor lighting that is both energy efficient and aesthetically pleasing.

The LED Arrays performance and the driver's life are maximized by enclosing them in two separate die cast aluminum housings. Easy tool-less access for mounting and maintenance.

The LED Array light assembly comes with 192 LED Arrays, with lumen packages ranging from 54,000-76,000 lumens. Ten optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LEDs.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **VLX Array LED** series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting projects.

## Ordering Information

**CONFIRM  
FINISH**

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
<b>VLX-1</b>	<b>T1</b> Type 1	<b>55L</b>	<b>3K</b> 3000K	<b>UNV</b> 120-277V	<b>AM</b> Arm Mount	<b>GY</b> Grey	<b>PCR-120</b> <b>PCR-208</b> <b>PCR-240</b> <b>PCR-277</b> <b>PCR-347</b> <b>PCR-480</b> Photocell & Receptacle	<b>RPP3</b> <b>RPP4</b> <b>RPP5</b> For 3", 4", or 5" Ø Pole - Round Pole Plate Adaptor
	<b>T2</b> Type 2	<b>60L</b>	<b>4K</b> 4000K	<b>8</b> 347V	<b>WM</b> Wall Mount	<b>SL</b> Silver Metallic	<b>PCR-347</b> <b>PCR-480</b> Photocell & Receptacle	<b>UPMA-S</b> Universal Square Pole Mount Adaptor
	<b>T3</b> Type 3	<b>65L</b>	<b>5K</b> 5000K	<b>5</b> 480V		<b>BK</b> Black	<b>(3,5,7) PINPER</b> 3, 5, or 7 Pin Photo Receptacle w/shorting cap	<b>UPMA-R</b> Universal Round Pole Mount Adaptor
	<b>T3L</b> Type 3 Long	<b>75L</b>				<b>SBK</b> Smooth Black	<b>DIM</b> 0-10v Dimming Driver	<b>BAWP</b> Cast Wall Plate
	<b>T4</b> Type 4					<b>WH</b> White	<b>WSC-8</b> Motion Sensor 8' Mounting Height	<b>ROT-R</b> Rotated Optics Right Side
	<b>T4A</b> Type 4 Automotive					<b>SWH</b> Smooth White	<b>WSC-20</b> Motion Sensor 9-20' Mounting Height	<b>ROT-L</b> Rotated Optics Left Side
	<b>T4L</b> Type 4 Long					<b>BZ</b> Bronze	<b>WSC-40</b> Motion Sensor 21-40' Mounting Height This option will require (1) FSIR 100 remote for programming	<b>CLS</b> Back Side Cutoff Louver Shield
	<b>T5LR</b> Type 5 Long Round					<b>GP</b> Graphite	<b>VWC</b> Visionaire Wireless Controls *Consult Factory	<b>RCLS</b> Right Side Cutoff Louver Shield
	<b>T5LS</b> Type 5 Long Square					<b>CC</b> Custom Color		<b>LCLS</b> Left Side Cutoff Louver Shield
	<b>T5SR</b> Type 5 Short Round							

**CONFIRM  
DISTRIBUTION**

228





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

**Notes:****Type:****P2-OPT-2**

SEATAC-WWA21-113425

# Features & Specifications

## VLX Array

**Heatsink**

- Die cast aluminum heatsink with integral cooling fins for thermal management.

**Mounting Arm/Driver Compartment**

- Durable two-piece die cast aluminum driver compartment utilizes a tool-less push button latch for ease of maintenance and sealed with a one-piece silicone gasket.

**Thermal Management**

- The VLX Array series provides excellent thermal management by mounting the LED Arrays to the substantial heat sink of the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.
- The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The VLX Array series LEDs have been determined to last 90,000+ hours in 25° C environments when driven at 1400 mA.

**Optical System**

- The highest lumen output LED Arrays are utilized in the VLX Array series. IES distribution Types I, II, III, III-L, IV, IV-A, IV-L, V-LR, V-LS, and V-SR are available. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.
- CRI values are 70.

**New LED Array Technology**

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

**Quali-Guard® Finish**

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors.
- Finish is guaranteed for ten (10) years.

**Electrical Assembly**

- The VLX Array LED series is supplied with a choice of 350, 530, 700, 1050 mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for -40°C operations.
- 10 kV surge protector supplied as standard.
- Terminal block supplied as standard.

**Warranty**

- Ten (10) year Limited Warranty on entire system, including finish. For full warranty information, please visit [visionairelighting.com](http://visionairelighting.com).

**Options**

- Photocell & receptacle
- Photo receptacle
- 0-10v Dimming Driver
- Motion Sensor
- Wireless Control
- Round pole plate adapter
- Universal Pole Mount Adaptor
- Cast Wall Plate
- Cut-Off Louver Shield
- Rotated Optics

**Listings**

- The VLX Array Series is cUL Listed
- IP65 Rated Housing
- ANSI Certification
- Powder Coated Tough
- IDA Certification

3000K must be selected with a fixed mount for IDA certification.



VLX ARRAY - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VLX-1-T5LS-55L	388	3.23	1.87	1.62	1.40	1.12	0.81
VLX-1-T5LS-60L	444	3.70	2.13	1.85	1.60	1.28	0.93
VLX-1-T5LS-70L	501	4.18	2.41	2.09	1.81	1.44	1.04
VLX-1-T5LS-75L	565	4.71	2.72	2.35	2.04	1.63	1.18

229



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VLX-1-TX-XXL-3K-UNV-AM-FINISH

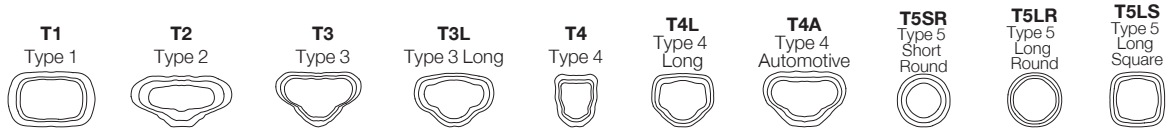
Notes:

**Type:****P2-OPT-2**

SEATAC-WWA21-113425

# VLX Array LED Array Specifications

## Photometric Optical Summary



## Dimensions

**Width:** VLX-1 16.5"

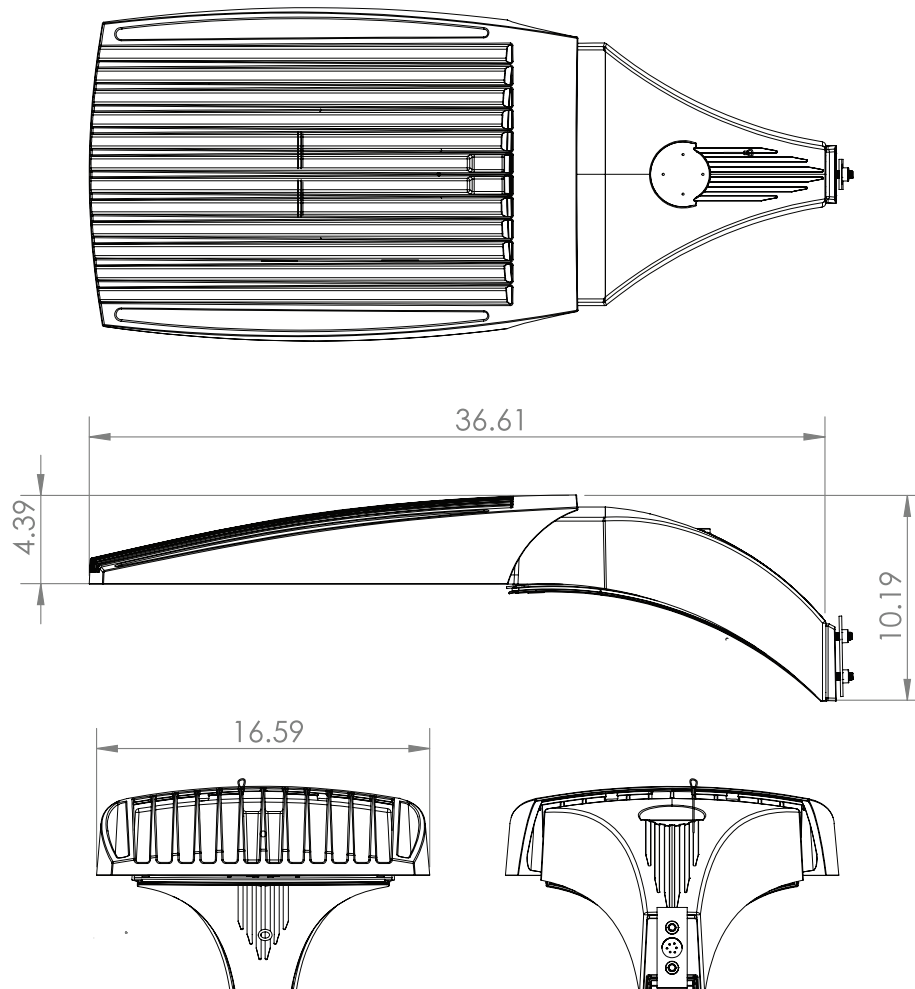
**Depth:** VLX-1 36.6"

**Height:** VLX-1 4.39"

**Overall Height:** VLX-1 10.19"

**Weight:** 58 LBS

**CONFIRM  
DISTRIBUTION**



**VISIONAIRE LIGHTING**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

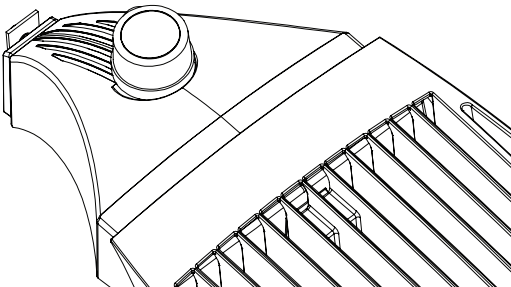
VLX-1-TX-XXL-3K-UNV-AM-FINISH

**Notes:****Type:****P2-OPT-2**

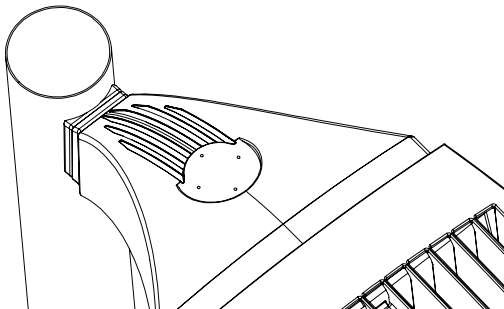
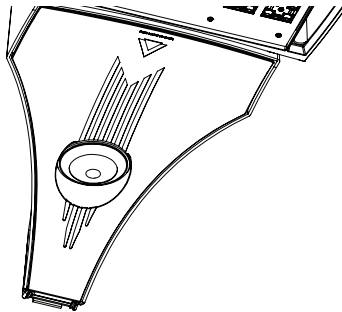
SEATAC-WWA21-113425

LED Specifications **VLX Array****Twist lock Photocell & Receptacle**

Dusk to dawn sensor.

**Round Pole Plate Adaptor**

Round Pole Plate Adaptor to be used with round pole.

**Motion Sensor**

The FSP-211 by Legrand is integrated into the VLX housing and provides multi-level control based on motion and/or daylight contribution.

## Lens Coverage Patterns:

WSC-8 - 360° lens, maximum coverage 48'; diameter from 8' height

WSC-20 - 360° lens, maximum coverage 48'; diameter from 20' height

WSC-40 - 360° lens, maximum coverage 100'; diameter from 40' height

## Default settings:

FACTORY DEFAULTS High Mode

Low Mode

Time Delay

Cut Off

Sensitivity

Hold Off Set point

Ramp Up

Fade Down

Force Off Set point with Occupied

0 Volts

1 Volts

5 Minutes

1 Hour

Maximum

4 Foot Candles

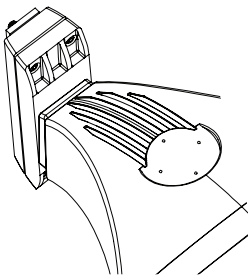
None

None

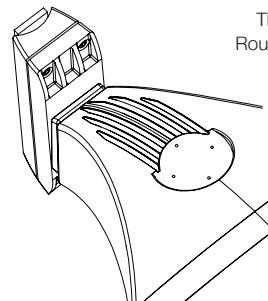
Disable

**UPMA**

The Universal Pole Mount Adaptor is ideal for retrofit applications with existing square poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

**UPMA-R**

The Universal Pole Mount Adaptor Round is ideal for retrofit applications with existing round poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.







**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VLX-1-TX-XXL-3K-UNV-AM-FINISH

Notes:

**Type:**

**P2-OPT-2**

SEATAC-WWA21-113425

CONFIRM  
OUTPUT

## VLX Array LED Array Specifications

VLX ARRAY LUMEN CHART - 3K													
# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	52191	51808	50363	45516	51180	52819	46412	50261	52041	53885	388
	800	60L	58603	58173	56550	51108	57468	59308	52114	56436	58435	60506	444
	900	65L	64846	64370	62574	56552	63589	65626	57665	62448	64659	66951	501
	1000	75L	70533	70015	68062	61512	69166	71382	62723	67925	70330	72822	565
VLX ARRAY LUMEN CHART - 4K													
# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	54287	53889	52385	47344	53235	54940	48276	52279	54131	56049	388
	800	60L	60956	60509	58821	53160	59775	61690	54207	58702	60781	62935	444
	900	65L	67449	66955	65087	58823	66143	68261	59981	64955	67256	69639	501
	1000	75L	73365	72827	70795	63982	71943	74248	65241	70652	73154	75746	565
VLX ARRAY LUMEN CHART - 5K													
# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	55011	54608	53084	47975	53945	55673	48920	52977	54853	56797	388
	800	60L	61770	61317	59606	53869	60573	62513	54930	59486	61592	63775	444
	900	65L	68350	67848	65955	59608	67025	69172	60781	65822	68153	70568	501
	1000	75L	74344	73799	71740	64835	72904	75238	66112	71595	74130	76757	565
VLX ARRAY LUMEN PER WATT CHART - 3K													
# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	135	134	130	117	132	136	120	130	134	139	388
	800	60L	132	131	127	115	130	134	117	127	132	136	444
	900	65L	129	128	125	113	127	131	115	125	129	134	501
	1000	75L	125	124	120	109	122	126	111	120	124	129	565
VLX ARRAY LUMEN PER WATT CHART - 4K													
# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	140	139	135	122	137	142	124	135	140	144	388
	800	60L	137	136	133	120	135	139	122	132	137	142	444
	900	65L	135	134	130	117	132	136	120	130	134	139	501
	1000	75L	130	129	125	113	127	131	115	125	129	134	565
VLX ARRAY LUMEN PER WATT CHART - 5K													
# LEDs	Current (mA)	K Lumen	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
192AR	700	55L	142	141	137	124	139	144	126	137	141	146	388
	800	60L	139	138	134	121	137	141	124	134	139	144	444
	900	65L	136	135	132	119	134	138	121	131	136	141	501
	1000	75L	132	131	127	115	129	133	117	127	131	136	565





LED Specifications **VLX Array**

VLX ARRAY BUG CHART - 3K																																	
# LEDs	Current (mA)	K Lumen	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
192AR	700	55L	5	0	5	5	0	5	4	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	388
	800	60L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	444
	900	65L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	501
	1000	75L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	565
VLX ARRAY BUG CHART - 4K																																	
# LEDs	Current (mA)	K Lumen	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
192AR	700	55L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	5	388
	800	60L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	5	444
	900	65L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	5	501
	1000	75L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	565
VLX ARRAY BUG CHART - 5K																																	
# LEDs	Current (mA)	K Lumen	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
192AR	700	55L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	388
	800	60L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	444
	900	65L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	501
	1000	75L	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	565



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P2-OPT 3**

SEATAC-WWA21-113425

## VMX-II LED Specifications



\* Universal Arm Mount (UAM) Version Shown.

Project Name:

Catalog Number:

Type:

The **VMX-II LED** Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines the latest LED technology, advanced LED thermal management and provides outdoor lighting that is both energy efficient and aesthetically pleasing.

The LED's performance and the driver's life are maximized by enclosing them in two separate cast aluminum housings. Easy tool-less access for mounting and maintenance.

The LED light assemblies come with 48 to 96 LEDs. Eight optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LEDs.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **VMX-II LED** series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting projects.

### Ordering Information

**CONFIRM  
FINISH**

MODEL	OPTICS	LEDs	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS	OPTIONS
<b>VMX-II</b>	<b>T1</b> Type 1	<b>48LC</b>	<b>3</b> 350mA	<b>3K</b> 3000K	<b>UNV</b> 120-277V	<b>AM</b> Arm Mount	<b>BZ</b> Bronze	<b>PCR-120</b>	<b>WSC-8</b> Motion Sensor 8' Mounting Height	<b>UPMA-S</b> Universal Square Pole Mount Adaptor
	<b>T2</b> Type 2	<b>64LC</b>	<b>5</b> 530mA	<b>4K</b> 4000K	<b>8</b> 347V	<b>SAM</b> Straight Arm Mount W/ Terminal Block (New Construction)	<b>BK</b> Black	<b>PCR-208</b>		
	<b>T3</b> Type 3	<b>80LC</b>	<b>7</b> 700mA	<b>5K</b> 5000K	<b>5</b> 480V		<b>SBK</b> Smooth Black	<b>PCR-240</b>	<b>WSC-20</b> Motion Sensor 9-20' Mounting Height	<b>UPMA-R</b> Universal Round Pole Mount Adaptor
	<b>T4</b> Type 4	<b>96LC</b>	<b>10</b> 1050mA *Not available in 96LC			<b>UAM</b> Universal ArmW/ Terminal Block Mount (Retrofit)	<b>WH</b> White	<b>PCR-277</b>		
	<b>T4A</b> Type 4 Automotive	<b>CONFIRM OUTPUT</b>				<b>MAF</b> Mast Arm Fitter	<b>SWH</b> Smooth White	<b>PCR-347</b>	<b>PCR-480</b> Photocell & Receptacle	<b>BAWP</b> Cast Wall Plate
	<b>T5</b> Type 5					<b>KM</b> Knuckle Mount	<b>GP</b> Graphite	<b>PER</b>	<b>WSC-40</b> Motion Sensor 21-40' Mounting Height	<b>ROT-R</b> Rotated Optics Right Side
	<b>T5W</b> Type 5 Wide					<b>WM</b> Wall Mount *Requires BAWP	<b>GY</b> Grey	<b>5PINPER</b>	<b>7PINPER</b> 3, 5, or 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	<b>ROT-L</b> Rotated Optics Left Side
	<b>T5WR</b> Type 5 Wide Round					<b>AWM</b> Adjustable Wall Mount	<b>SL</b> Silver Metallic	<b>DIM</b> 0-10v Dimming Driver	<b>UMAP</b> Universal Mast arm fitter	<b>CLS</b> Backside cutoff shield *Not to be used with KM
	<b>CONFIRM DISTRIBUTION</b>					*Round Pole Plate Adapters (RPP) are to be ordered separately.	<b>CC</b> Custom Color	<b>RPP-3"</b>	<b>ECLS</b> Egg Crate Louder Shield	<b>RCLS</b> Rightside cutoff shield *Not to be used with KM
						*BAWP to be ordered separately		<b>RPP-4"</b>	<b>ADJLS</b> Adjustable Louder Light Shield	<b>LCLS</b> Leftside cutoff shield *Not to be used with KM
								<b>RPP-5"</b>	<b>BD</b> Barn Door Shield	<b>HS</b> House shield
								<b>VWC</b> Visionaire Wireless Controls *Consult Factory		



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P2-OPT 3**

SEATAC-WWA21-113425

# Features & Specifications

**VMX-II****Heatsink**

Cast aluminum heatsink with integral cooling fins for thermal management.

**Mounting Arm/Driver Compartment**

Durable two-piece die cast aluminum driver compartment utilizes stainless steel hardware and sealed with a one-piece silicone gasket.

**Thermal Management**

- The VMX-II series provides excellent thermal management by mounting the LEDs to the substantial heat sink of the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.
- The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The VMX-II series LEDs have been determined to last 100,000+ hours in 25° C environments when driven at 350 mA.

**Optical System**

- The highest lumen output, LEDs are utilized in the VMX-II series. IES distribution Types I, II, III, IV, IV-A, V, V-WR are available. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.
- CRI values are 70.

**Quali-Guard® Finish**

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors.
- Finish is guaranteed for five (5) years.

**Electrical Assembly**

- The VMX-II LED series is supplied with a choice of 350, 530, 700 or 1050 mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for -40°C operations.
- 10 kV surge protector supplied as standard.
- Terminal block supplied as standard on AM, SAM and UAM as standard

**Warranty**

- Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit [visionairelighting.com](http://visionairelighting.com).

**Options**

- Photocell & Receptacle
- Photo Receptacle with Shorting Cap
- 0-10v Dimming Driver
- Motion Sensor
- Wireless Control
- Round pole plate adapter
- Universal Pole Mount Adaptor
- Cast Wall Plate
- Rotated Optics
- Cutoff Louver Shielding (CLS)

**Listings**

- The VMX-II Series is cUL Listed
- IP65 Rated Housing
- ANSI Certification
- Powder Coated Tough
- IDA Certification
- DLC Listed



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>  
 3000K must be selected with a fixed mount for IDA certification. Fixed mount must be selected for IDA dark sky certification.

VMX-II - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VMX-II-T5-48LC-3	52	0.43	0.25	0.22	0.19	0.15	0.11
VMX-II-T5-48LC-5	78	0.65	0.38	0.33	0.28	0.22	0.16
VMX-II-T5-48LC-7	106	0.88	0.51	0.44	0.38	0.31	0.22
VMX-II-T5-48LC-10	161	1.34	0.77	0.67	0.58	0.46	0.34
VMX-II-T5-64LC-3	70	0.58	0.34	0.29	0.25	0.20	0.15
VMX-II-T5-64LC-5	107	0.89	0.51	0.45	0.39	0.31	0.22
VMX-II-T5-64LC-7	142	1.18	0.68	0.59	0.51	0.41	0.30
VMX-II-T5-64LC-10	218	1.82	1.05	0.91	0.79	0.63	0.45
VMX-II-T5-80LC-3	87	0.73	0.42	0.36	0.31	0.25	0.18
VMX-II-T5-80LC-5	132	1.10	0.63	0.55	0.48	0.38	0.28
VMX-II-T5-80LC-7	177	1.48	0.85	0.74	0.64	0.51	0.37
VMX-II-T5-80LC-10	272	2.27	1.31	1.13	0.98	0.78	0.57
VMX-II-T5-96LC-3	104	0.87	0.50	0.43	0.38	0.30	0.22
VMX-II-T5-96LC-5	157	1.31	0.75	0.65	0.57	0.45	0.33
VMX-II-T5-96LC-7	212	1.77	1.02	0.88	0.77	0.61	0.44



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

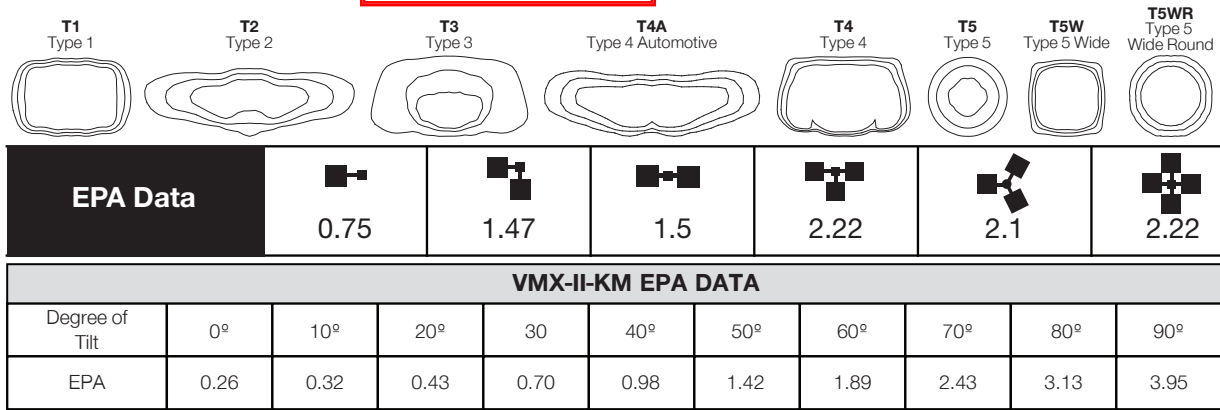
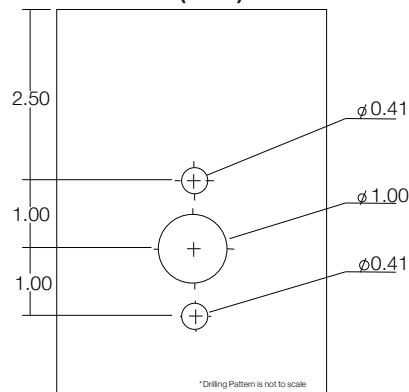
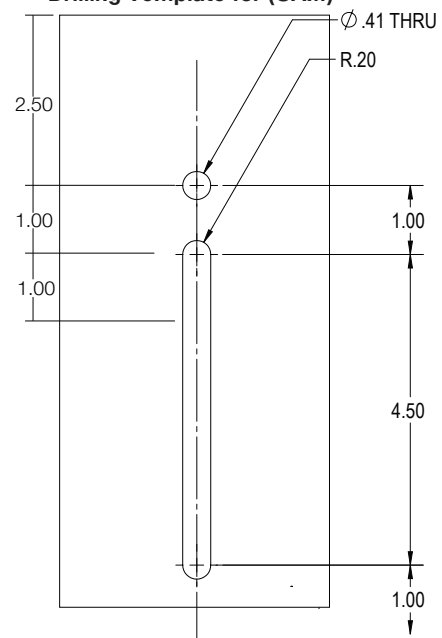
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P2-OPT 3**

SEATAC-WWA21-113425

# VMX-II LED Specifications

**Photometric Optical Summary****CONFIRM DISTRIBUTION****Dimensions****Width:** VMX-II 15.5"**Depth:** VMX-II 29"**Height:** VMX-II 4.0"**Overall Height:** VMX-II 10.75"**Weight:** 49 LBS**Drilling Template for (AM) and (SAM)****Drilling Template for (UAM)**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P2-OPT 3**

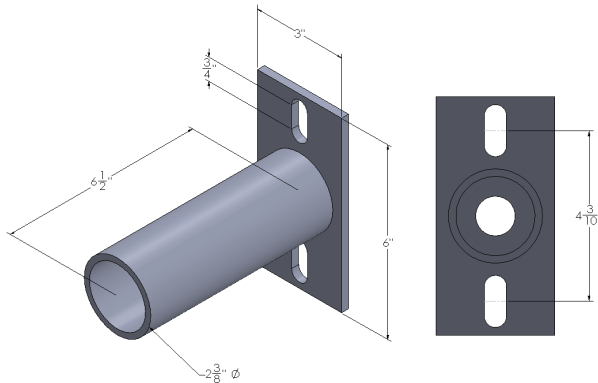
SEATAC-WWA21-113425

LED Specifications **VMX-II**

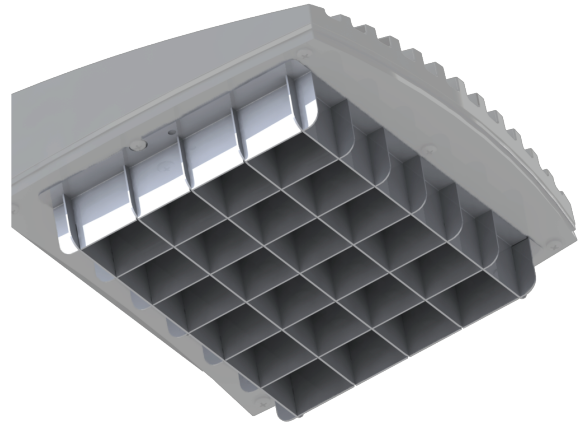
## VMX-II Options

## Universal Mast Arm Fitter

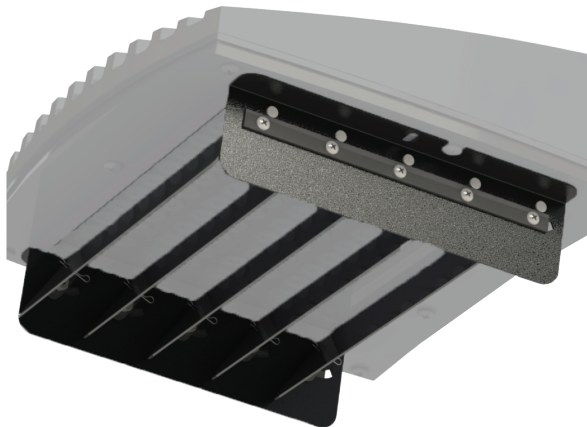
**UMAP – The Universal Mast Arm Fitter** is a simple solution for retrofit applications where a fixture needs to mount to an existing pole, the UMAP is meant to be use to with knuckle mounts and also Mast Arm Fitters. The UMAP has a bolt slot ranging from 7" all the way down to 3.5". The UMAP also has a Round Pole Plate Adaptor (RPP) for mounting to round poles.



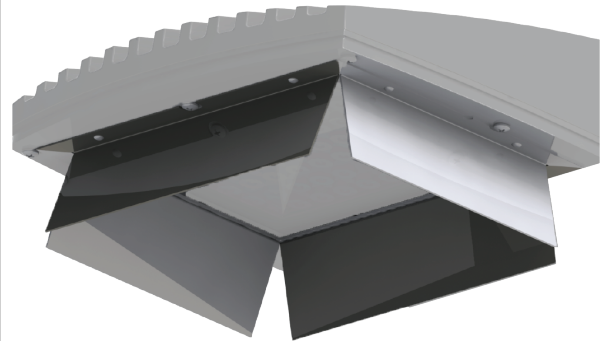
## Egg Crate Light Shield



## Adjustable Louver Light Shield



## Barn Door Light Shield





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

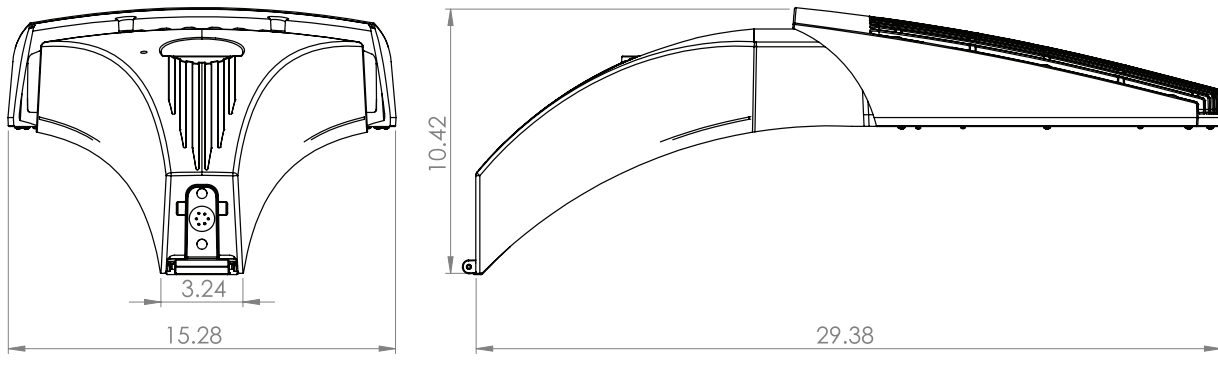
**Type:****P2-OPT 3**

SEATAC-WWA21-113425

## VMX-II LED Specifications

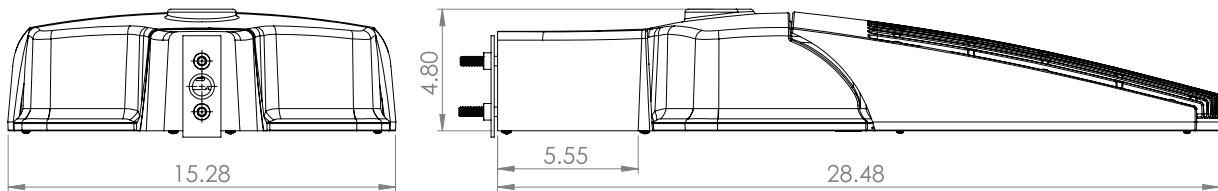
### Arm Mount (AM)

The Arm Mount (AM) utilizes a 2 piece cleat system for easy installation, a terminal block is supplied as standard. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



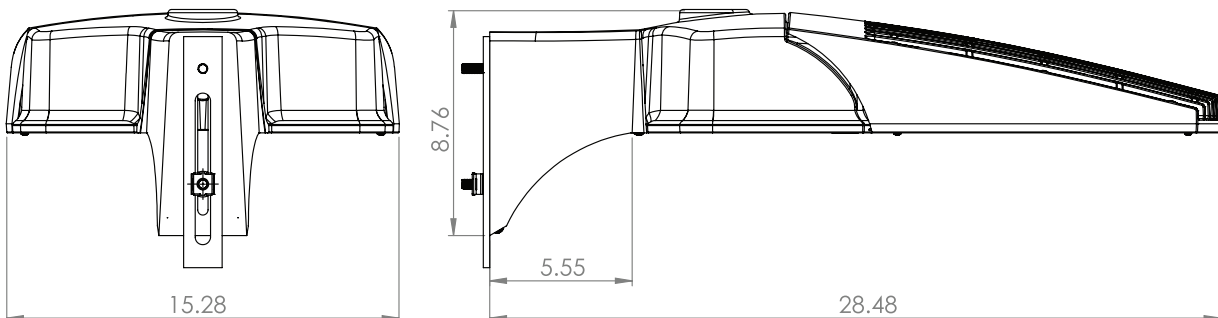
### Straight Arm Mount (SAM)

The Straight Arm Mount (SAM) uses a 2 piece mounting system, a terminal block is supplied as standard. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



### Universal Arm Mount (UAM)

The Universal Arm Mount (UAM) is meant for retrofit Applications and has a drilling template ranging from 3" to 5.5". A Round Pole Plate Adapter (RPP) is required for mounting to round poles.





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

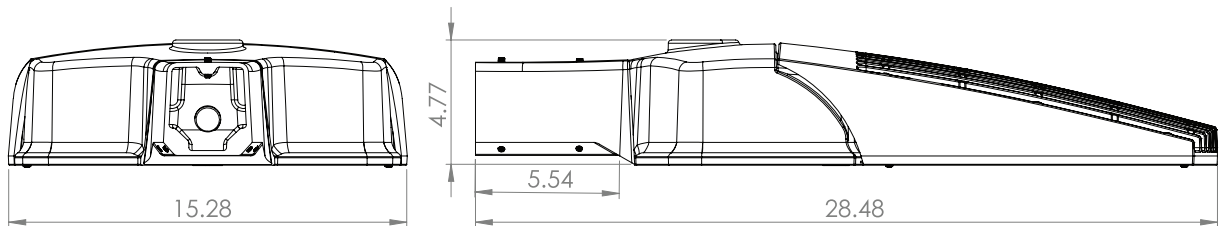
Notes:

**Type:****P2-OPT 3**

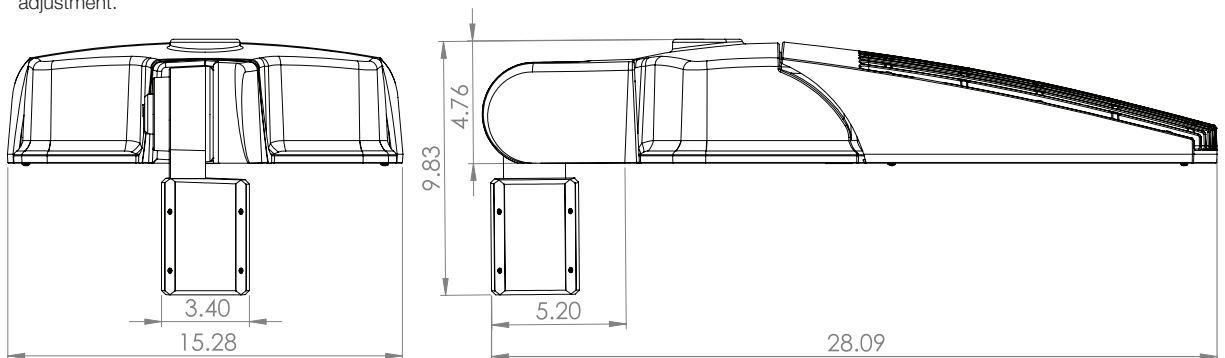
SEATAC-WWA21-113425

LED Specifications **VMX-II****Mast Arm Fitter (MAF)**

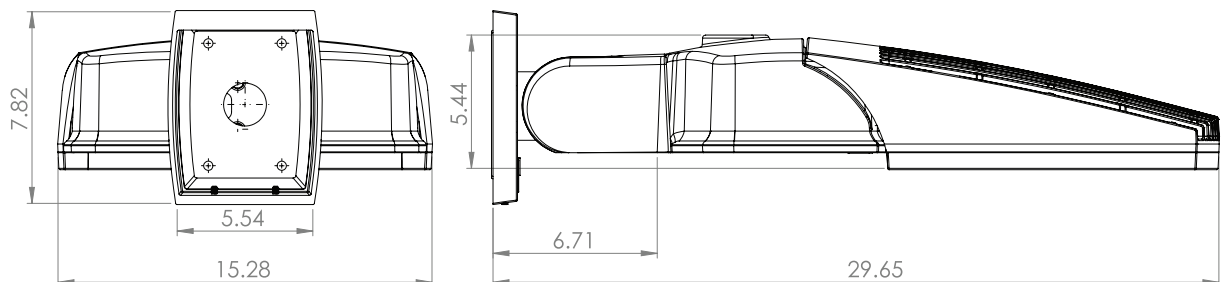
Mast Arm Fitter fits over a 1 5/8" - 2 3/8" tenon.

**Knuckle Mount (KM)**

An adjustable knuckle slip fits over a 2 3/8" Tenon, and allows for up to 90° degrees of vertical adjustment in 10° degree increments from horizontal, as well as full side to side adjustment.

**Adjustable Wall Mount (AWM)**

Wall Mount - Adjustable up to 50° in 10° increments





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

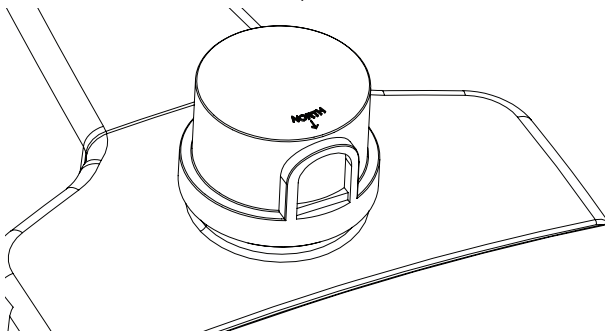
Notes:

**Type:****P2-OPT 3**

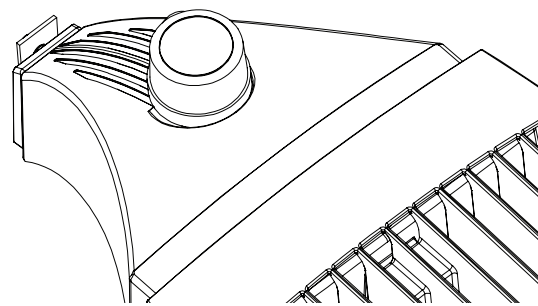
SEATAC-WWA21-113425

## VMX-II LED Specifications

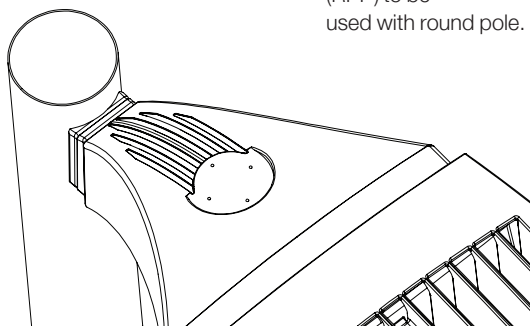
Twist lock Photocell &amp; Receptacle - Dusk to dawn sensor.



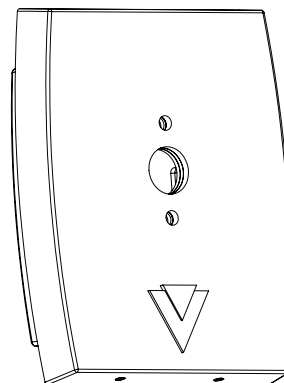
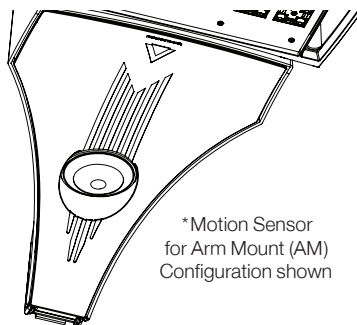
Photocell Receptacle and Shorting Cap



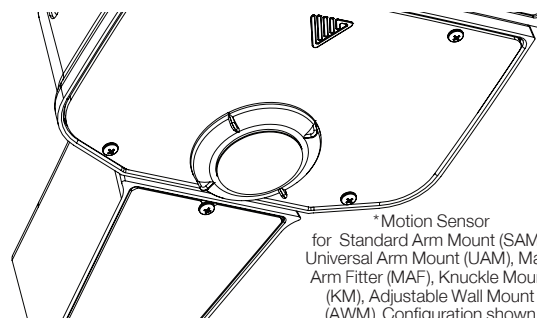
Round Pole Plate Adaptor (RPP) - Round Pole Plate Adaptor (RPP) to be used with round pole.



Cast Wall Plate - Arm Mount Wall Plate is needed to wall mount the VMX-II.

Motion Sensor -  
\*This option will require one FSIR 100 remote for programming.

\*Motion Sensor for Arm Mount (AM) Configuration shown

Motion Sensor (for SAM, UAM, MAF, KM, AWM) -  
\*This option will require one FSIR 100 remote for programming.

\*Motion Sensor for Standard Arm Mount (SAM), Universal Arm Mount (UAM), Mast Arm Fitter (MAF), Knuckle Mount (KM), Adjustable Wall Mount (AWM) Configuration shown

The FSP-211 by Legrand is integrated into the VMX housing and provides multi-level control based on motion and/or daylight contribution.

**Lens Coverage Patterns:**

WSC-8	360° lens, maximum coverage 48'; diameter from 8' height
WSC-20	360° lens, maximum coverage 48'; diameter from 20' height
WSC-40	360° lens, maximum coverage 100'; diameter from 40' height

**Motion Sensor Default Settings**

High Mode	0 Volts
Low Mode	1 Volts
Time Delay	5 Minutes
Cut Off	1 Hour
Sensitivity	Maximum
Hold Off Set Point	4ft
Candles	N/A
Ramp Up	None
Fade Down	None
Force Off Set Point With Occupied	Disable



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

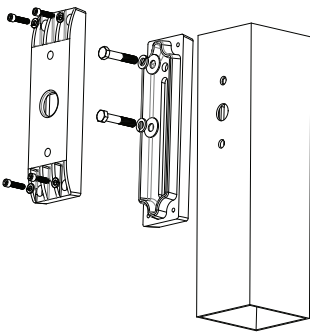
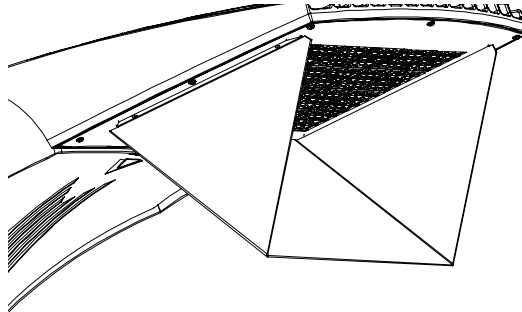
Notes:

**Type:****P2-OPT 3**

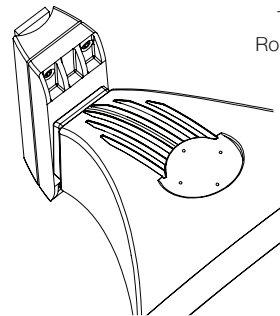
SEATAC-WWA21-113425

LED Specifications **VMX-II**

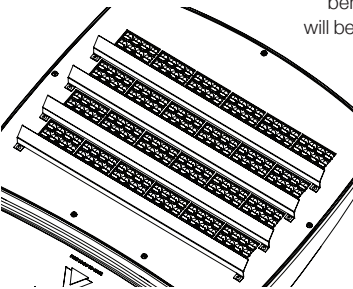
House Shield - Provides solid back light cutoff

**UPMA**

The Universal Pole Mount Adaptor is ideal for retrofit applications with existing square poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

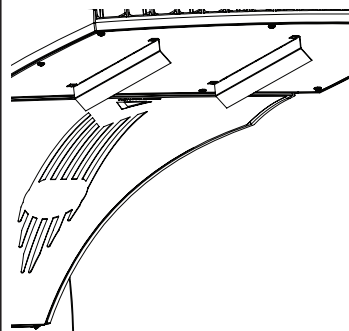
**UPMA-R**

The Universal Pole Mount Adaptor Round is ideal for retrofit applications with existing round poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

**CLS**

The Back Side Cutoff Louver Shield will reduce light output behind the fixture, all of the light will be focused in front of the VMX.

\*Not to be used with KM

**LCLS**

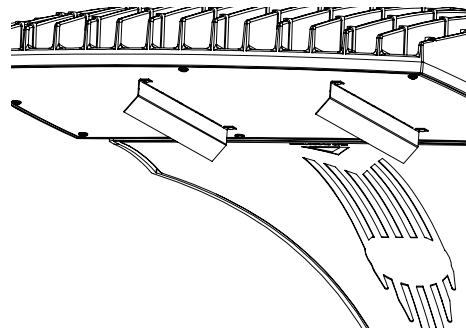
The Left Side Cutoff Louver Shield will reduce light output on the left side of the fixture, all of the light be focused on the right side of the VMX.

\*Not to be used with KM

**RCLS**

The Right Side Cutoff Louver Shield will reduce light output on the right side of the fixture, all of the light be focused on the left side of the VMX.

\*Not to be used with KM







**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:**

**P2-OPT 3**

SEATAC-WWA21-113425

## VMX-II LED Specifications

**CONFIRM OUTPUT**

VMX-II - 3K Lumen Data										
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	7311	6909	7243	6994	7321	7506	7333	7191	52
	530	9808	9269	9717	9383	9822	10070	9838	9648	78
	700	12786	12084	12668	12232	12805	13128	12826	12578	106
	1050	17509	16547	17347	16750	17534	17977	17563	17223	161
64	350	9309	8798	9223	8906	9323	9558	9338	9158	70
	530	13763	13007	13636	13167	13783	14131	13806	13539	107
	700	16888	15960	16732	16156	16912	17339	16940	16612	142
	1050	23222	21946	23007	22215	23255	23843	23293	22843	218
80	350	11512	10880	11406	11013	11529	11820	11547	11324	87
	530	16640	15726	16486	15918	16664	17084	16691	16368	132
	700	20813	19670	20621	19911	20844	21370	20878	20474	177
	1050	29027	27433	28759	27769	29069	29803	29117	28554	272
96	350	13714	12961	13588	13120	13734	14081	13757	13491	104
	530	19516	18444	19336	18670	19544	20038	19576	19198	157
	700	24739	23380	24511	23667	24775	25400	24815	24336	212
VMX-II - 4K Lumen Data										
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	7695	7273	7624	7362	7707	7901	7719	7627	52
	530	10324	9757	10229	9876	10339	10600	10356	10232	78
	700	13459	12720	13335	12876	13479	13819	13501	13340	106
	1050	18430	17418	18260	17631	18457	18923	18487	18267	161
64	350	9799	9261	9709	9375	9814	10061	9830	9713	70
	530	14487	13692	14354	13860	14509	14875	14532	14359	107
	700	17777	16800	17612	17006	17802	18252	17831	17619	142
	1050	24444	23101	24218	23385	24479	25097	24519	24227	218
80	350	12118	11452	12006	11593	12135	12442	12155	12010	87
	530	17515	16553	17354	16756	17541	17984	17569	17360	132
	700	21909	20705	21707	20959	21941	22495	21977	21715	177
	1050	30555	28876	30273	29231	30599	31372	30649	30284	272
96	350	14436	13643	14303	13811	14457	14822	14481	14308	104
	530	20543	19415	20354	19653	20573	21092	20607	20361	157
	700	26041	24611	25801	24912	26079	26737	26122	25810	212
VMX-II - 5K Lumen Data										
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	7384	6979	7316	7064	7395	7582	7407	7264	52
	530	9907	9362	9815	9477	9921	10172	9937	9745	78
	700	12915	12206	12796	12356	12934	13261	12955	12705	106
	1050	17685	16714	17522	16919	17711	18158	17740	17397	161
64	350	9403	8887	9317	8996	9417	9655	9433	9250	70
	530	13902	13138	13774	13300	13922	14274	13945	13675	107
	700	17058	16121	16901	16319	17083	17514	17111	16780	142
	1050	23456	22168	23240	22440	23490	24083	23529	23074	218
80	350	11628	10989	11521	11124	11645	11939	11664	11439	87
	530	16808	15884	16653	16079	16832	17257	16860	16534	132
	700	21024	19869	20830	20112	21054	21586	21089	20681	177
	1050	29320	27710	29050	28050	29363	30104	29411	28842	272
96	350	13853	13092	13725	13253	13873	14223	13896	13627	104
	530	19713	18630	19531	18859	19742	20240	19774	19392	157
	700	24989	23616	24758	23906	25025	25657	25066	24581	212





**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:**

**P2-OPT 3**

SEATAC-WWA21-113425

## LED Specifications **VMX-II**

VMX-II - 3K Lumen Per Watt Data									
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR
48	350	141	133	139	134	141	144	141	138
	530	125	118	124	120	125	129	126	123
	700	121	114	120	115	121	124	121	119
	1050	109	103	108	104	109	112	109	107
64	350	133	126	132	127	133	137	133	131
	530	129	122	127	123	129	132	129	127
	700	119	112	118	114	119	122	119	117
	1050	107	101	106	102	107	109	107	105
80	350	133	125	131	127	133	136	133	130
	530	126	119	125	121	126	130	127	124
	700	118	111	117	112	118	121	118	116
	1050	107	101	106	102	107	110	107	105
96	350	132	125	131	127	132	136	133	130
	530	125	118	123	119	125	128	125	123
	700	117	110	116	112	117	120	117	115
VMX-II - 4K Lumen Per Watt Data									
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR
48	350	148	140	147	142	148	152	148	147
	530	132	125	131	126	132	135	132	131
	700	127	120	126	121	127	130	127	126
	1050	114	108	113	110	115	118	115	113
64	350	140	132	139	134	140	144	140	139
	530	135	128	134	130	136	139	136	134
	700	125	118	124	120	125	129	126	124
	1050	112	106	111	107	112	115	112	111
80	350	140	132	138	133	140	143	140	138
	530	133	126	132	127	133	136	133	132
	700	124	117	123	118	124	127	124	123
	1050	112	106	111	108	113	115	113	111
96	350	139	132	138	133	139	143	140	138
	530	131	124	130	125	131	135	132	130
	700	123	116	122	118	123	126	123	122
VMX-II - 5K Lumen Per Watt Data									
#LED's	mA	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR
48	350	142	134	141	136	142	146	142	140
	530	127	120	125	121	127	130	127	124
	700	122	115	121	117	122	125	122	120
	1050	110	104	109	105	110	113	110	108
64	350	134	127	133	129	135	138	135	132
	530	130	123	129	124	130	133	130	128
	700	120	114	119	115	120	123	121	118
	1050	108	102	107	103	108	110	108	106
80	350	134	127	133	128	134	137	134	132
	530	128	121	126	122	128	131	128	125
	700	119	112	118	114	119	122	119	117
	1050	108	102	107	103	108	111	108	106
96	350	134	126	132	128	134	137	134	131
	530	126	119	125	120	126	129	126	124
	700	118	111	117	113	118	121	118	116





# VMX-II LED Specifications

VMX-II - 3K BUG Data																											
LED's	mA	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type T5WR				
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		
48	350	2	0	2	2	0	2	1	0	2	2	0	2	1	0	1	3	0	1	3	0	2	3	0	2		
	530	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	700	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	3	0	2	4	0	2	4	0	2		
	1050	4	0	3	3	0	3	2	0	2	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
64	350	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	530	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
80	350	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	530	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	1050	5	0	4	3	0	4	3	0	4	3	0	4	3	0	3	5	0	3	5	0	3	5	0	4		
96	350	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	530	4	0	4	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	5	0	3		
	700	4	0	4	3	0	4	3	0	4	3	0	4	3	0	2	4	0	2	5	0	3	5	0	3		
VMX-II - 4K BUG Data																											
LED's	mA	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type T5WR				
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		
48	350	3	0	3	2	0	2	1	0	2	2	0	2	1	0	1	3	0	1	3	0	2	3	0	2		
	530	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	700	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	5	0	3		
64	350	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	530	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	4	3	0	4	3	0	4	3	0	4	3	0	2	4	0	2	5	0	3	5	0	3		
80	350	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	530	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	1050	5	0	4	3	0	5	3	0	4	3	0	4	3	0	3	5	0	3	5	0	4	5	0	4		
96	350	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	530	4	0	4	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	700	4	0	4	3	0	4	3	0	4	3	0	4	3	0	3	5	0	3	5	0	3	5	0	3		
VMX-II - 5K BUG Data																											
LED's	mA	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Type T5WR				
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		
48	350	2	0	2	2	0	2	1	0	2	2	0	2	1	0	1	3	0	1	3	0	2	3	0	2		
	530	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	700	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
64	350	3	0	3	2	0	3	1	0	2	2	0	2	2	0	1	3	0	2	3	0	2	4	0	2		
	530	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	1050	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
80	350	3	0	3	2	0	3	2	0	2	2	0	2	2	0	1	3	0	2	4	0	2	4	0	2		
	530	4	0	3	3	0	3	2	0	3	3	0	3	3	0	2	4	0	2	4	0	2	4	0	2		
	700	4	0	4	3	0	4	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	1050	5	0	4	3	0	4	3	0	4	3	0	4	3	0	3	5	0	3	5	0	4	5	0	4		
96	350	3	0	3	3	0	3	2	0	2	2	0	3	2	0	2	4	0	2	4	0	2	4	0	2		
	530	4	0	4	3	0	3	3	0	3	3	0	3	3	0	2	4	0	2	5	0	3	5	0	3		
	700	4	0	4	3	0	4	3	0	4	3	0	4	3	0	2	4	0	2	5	0	3	5	0	3		



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

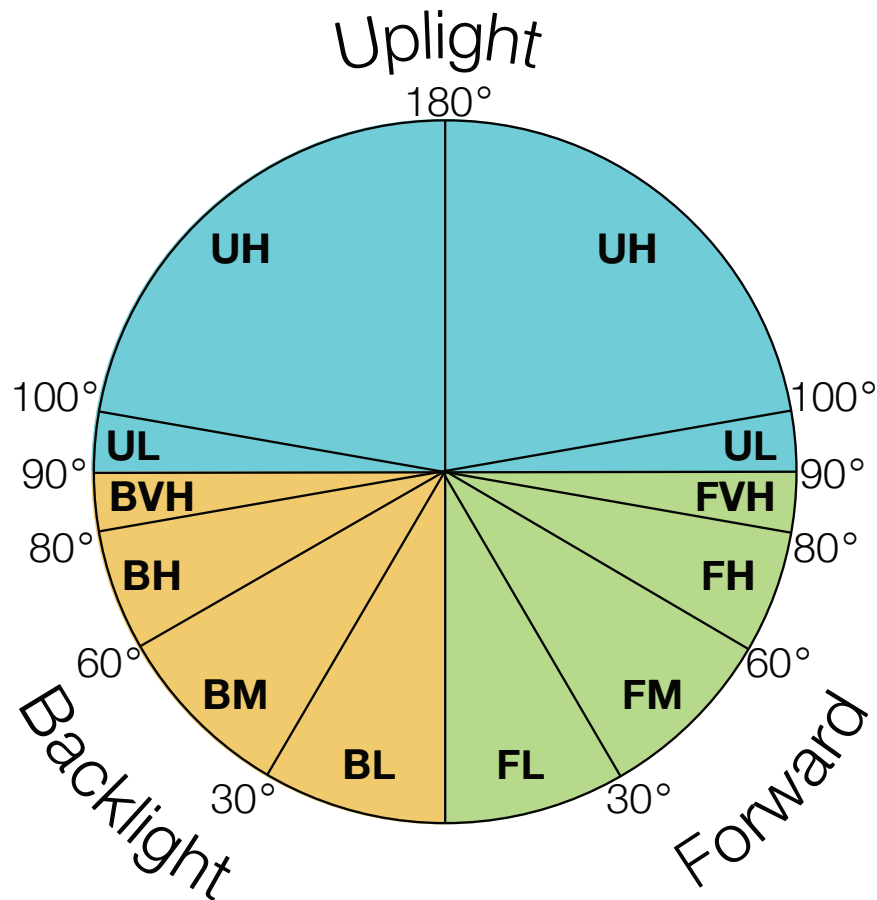
Notes:

**Type:****P2-OPT 3**

SEATAC-WWA21-113425

LED Specifications **VMX-II****Bug Rating -**

The subzones are individually rated on a scale from 0 to 5, going from lowest to highest luminous flux. The highest rating of a subzone is considered the overall rating for that zone, and these readings are compiled into the BUG lighting classification: for example, B3 U1 G0. The tables below, which are based on the standards established by the IES, show the thresholds for each subzone.







**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:**

**P2-OPT 3**

SEATAC-WWA21-113425

## VMX-II LED Specifications

VMX-II Cutoff Louver Shield - 3K Lumen Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	4839	4388	4668	4666	5514	4472	3980	3932	52
	530	6491	5886	6262	6260	7398	6000	5339	5275	78
	700	8463	7674	8164	8162	9645	7822	6961	6878	106
	1050	11589	10508	11180	11176	13207	10710	9531	9418	160
64	350	6162	5587	5944	5942	7022	5695	5068	5007	73
	530	9109	8260	8788	8785	10382	8419	7492	7403	106
	700	11178	10135	10783	10779	12739	10331	9193	9084	140
	1050	15370	13937	14828	14822	17516	14205	12641	12491	218
80	350	7619	6909	7351	7348	8684	7042	6267	6192	88
	530	11013	9987	10625	10621	12551	10179	9058	8950	131
	700	13776	12492	13290	13285	15700	12732	11330	11195	176
	1050	19212	17421	18535	18528	21895	17757	15801	15613	274
96	350	9077	8231	8757	8754	10345	8389	7466	7377	104
	530	12917	11713	12462	12457	14721	11939	10624	10497	157
	700	16374	14848	15797	15791	18661	15134	13467	13307	212
VMX-II Cutoff Louver Shield - 4K Lumen Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	5093	4619	4914	4912	5805	4707	4189	4139	52
	530	6833	6196	6592	6590	7787	6315	5620	5553	78
	700	8908	8078	8594	8591	10152	8233	7327	7240	106
	1050	12198	11061	11768	11764	13902	11274	10033	9913	160
64	350	6486	5881	6257	6255	7392	5995	5334	5271	73
	530	9589	8695	9251	9247	10928	8862	7887	7793	106
	700	11766	10669	11351	11347	13409	10874	9677	9562	140
	1050	16179	14670	15608	15602	18438	14953	13307	13148	218
80	350	8020	7273	7738	7735	9141	7413	6597	6518	88
	530	11593	10512	11184	11180	13212	10715	9535	9421	131
	700	14501	13149	13989	13984	16526	13402	11927	11784	176
	1050	20224	18338	19510	19503	23048	18691	16633	16435	274
96	350	9555	8664	9218	9215	10889	8831	7859	7765	104
	530	13597	12329	13117	13113	15496	12567	11183	11050	157
	700	17236	15629	16628	16622	19643	15930	14176	14007	212
VMX-II Cutoff Louver Shield - 5K Lumen Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	5197	4713	5014	5012	5923	4804	4275	4224	52
	530	6973	6322	6727	6724	7946	6444	5735	5666	78
	700	9090	8243	8770	8766	10360	8401	7476	7387	106
	1050	12447	11287	12008	12004	14186	11504	10238	10116	160
64	350	6618	6001	6385	6383	7543	6117	5443	5379	73
	530	9785	8872	9439	9436	11151	9043	8047	7952	106
	700	12006	10887	11583	11578	13683	11096	9875	9757	140
	1050	16509	14970	15927	15921	18814	15258	13578	13416	218
80	350	8184	7421	7895	7893	9327	7564	6731	6651	88
	530	11830	10727	11412	11408	13482	10933	9729	9614	131
	700	14797	13417	14275	14270	16863	13676	12170	12025	176
	1050	20636	18712	19908	19901	23518	19073	16973	16770	274
96	350	9750	8841	9406	9403	11112	9011	8019	7924	104
	530	13875	12581	13385	13380	15812	12823	11411	11275	157
	700	17588	15948	16967	16961	20044	16255	14465	14293	212






**Job Name:**  
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P2-OPT 3**

SEATAC-WWA21-113425

LED Specifications **VMX-II**

VMX-II Cutoff Louver Shield - 3K Lumen Per Watt Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	93	84	90	90	106	86	77	76	52
	530	83	75	80	80	94	77	68	67	78
	700	80	72	77	77	91	74	66	65	106
	1050	72	66	70	70	83	67	60	59	160
64	350	85	77	82	82	96	78	70	69	73
	530	86	78	83	83	98	79	71	70	106
	700	80	72	77	77	91	74	66	65	140
	1050	71	64	68	68	80	65	58	57	218
80	350	86	78	83	83	98	80	71	70	88
	530	84	76	81	81	96	77	69	68	131
	700	78	71	76	75	89	72	64	64	176
	1050	70	64	68	68	80	65	58	57	274
96	350	88	79	84	84	100	81	72	71	104
	530	82	75	80	80	94	76	68	67	157
	700	77	70	75	74	88	71	64	63	212
VMX-II Cutoff Louver Shield - 4K Lumen Per Watt Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	98	89	95	94	112	91	81	80	52
	530	87	79	84	84	99	81	72	71	78
	700	84	76	81	81	96	78	69	68	106
	1050	76	69	74	74	87	70	63	62	160
64	350	89	81	86	86	101	82	73	72	73
	530	90	82	87	87	103	83	74	73	106
	700	84	76	81	81	96	78	69	68	140
	1050	74	67	72	72	85	69	61	60	218
80	350	91	82	88	88	104	84	75	74	88
	530	88	80	85	85	101	82	73	72	131
	700	82	75	79	79	94	76	68	67	176
	1050	74	67	71	71	84	68	61	60	274
96	350	92	84	89	89	105	85	76	75	104
	530	87	79	84	84	99	80	71	71	157
	700	81	74	78	78	93	75	67	66	212
VMX-II Cutoff Louver Shield - 5K Lumen Per Watt Data *Not to be used with KM										
# of LEDs	Current (mA)	Type 1	Type 2	Type 3	Type 4	Type 4A	Type 5	Type 5W	Type 5WR	Watts
48	350	100	91	96	96	114	92	82	81	52
	530	89	81	86	86	101	82	73	72	78
	700	86	78	83	83	98	79	71	70	106
	1050	78	71	75	75	89	72	64	63	160
64	350	91	82	88	88	104	84	75	74	73
	530	92	84	89	89	105	85	76	75	106
	700	86	78	83	83	98	79	71	70	140
	1050	76	69	73	73	86	70	62	62	218
80	350	93	84	89	89	106	86	76	75	88
	530	90	82	87	87	103	83	74	73	131
	700	84	76	81	81	96	78	69	68	176
	1050	75	68	73	73	86	70	62	61	274
96	350	94	85	91	91	107	87	77	76	104
	530	89	80	85	85	101	82	73	72	157
	700	83	75	80	80	95	77	68	67	212



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

Notes:

**Type:****P2-OPT 3**

SEATAC-WWA21-113425

# VMX-II LED Specifications

VMX-II Cutoff Louver Shield - 3K BUG Data *Not to be used with KM																							
# of LEDs	Current (mA)	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Watts
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
48	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	1	0	1	52
	530	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	78
	700	2	0	2	1	0	3	2	0	2	1	0	2	1	0	2	2	0	2	2	0	2	106
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	160
64	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	73
	530	3	0	3	1	0	3	2	0	3	2	0	3	1	0	3	2	0	2	2	0	2	106
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	2	0	2	140
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	3	0	2	3	0	3	218
80	350	2	0	2	1	0	3	1	0	2	1	0	2	1	0	2	2	0	1	2	0	2	88
	530	3	0	3	2	0	3	2	0	3	2	0	3	1	0	3	2	0	2	2	0	2	131
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	176
	1050	3	0	4	2	0	4	3	0	3	3	0	4	2	0	3	3	0	3	3	0	3	274
96	350	3	0	3	1	0	3	2	0	2	2	0	3	1	0	2	2	0	2	2	0	2	104
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	157
	700	3	0	3	2	0	3	3	0	3	2	0	3	2	0	3	3	0	2	3	0	3	212
VMX-II Cutoff Louver Shield - 4K BUG Data *Not to be used with KM																							
# of LEDs	Current (mA)	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Watts
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
48	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	1	0	1	52
	530	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	2	0	1	2	0	2	78
	700	3	0	3	1	0	3	2	0	2	2	0	3	1	0	2	2	0	2	2	0	2	106
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	160
64	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	73
	530	3	0	3	1	0	3	2	0	3	2	0	3	1	0	2	2	0	2	2	0	2	106
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	140
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	3	0	2	3	0	3	218
80	350	2	0	2	1	0	3	1	0	2	1	0	2	1	0	2	2	0	2	2	0	2	88
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	131
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	176
	1050	3	0	4	2	0	4	3	0	3	3	0	4	2	0	3	3	0	3	3	0	3	274
96	350	3	0	3	1	0	3	2	0	3	2	0	3	1	0	2	2	0	2	2	0	2	104
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	157
	700	3	0	3	2	0	4	3	0	3	2	0	3	2	0	3	3	0	2	3	0	3	212
VMX-II Cutoff Louver Shield - 5K BUG Data *Not to be used with KM																							
# of LEDs	Current (mA)	Type 1			Type 2			Type 3			Type 4			Type 4A			Type 5			Type 5W			Watts
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
48	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	1	0	1	52
	530	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	2	0	1	2	0	2	78
	700	3	0	3	1	0	3	2	0	2	2	0	3	1	0	2	2	0	2	2	0	2	106
	1050	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	160
64	350	2	0	2	1	0	2	1	0	2	1	0	2	1	0	2	1	0	1	2	0	2	73
	530	3	0	3	1	0	3	2	0	3	2	0	3	1	0	3	2	0	2	2	0	2	106
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	140
	1050	3	0	3	2	0	3	3	0	3	2	0	3	2	0	3	3	0	2	3	0	3	218
80	350	2	0	2	1	0	3	2	0	2	1	0	2	1	0	2	2	0	2	2	0	2	88
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	131
	700	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	176
	1050	3	0	4	3	0	4	3	0	4	3	0	4	2	0	3	3	0	3	3	0	3	274
96	350	3	0	3	1	0	3	2	0	3	2	0	3	1	0	3	2	0	2	2	0	2	104
	530	3	0	3	2	0	3	2	0	3	2	0	3	2	0	3	2	0	2	3	0	3	157
	700	3	0	3	2	0	4	3	0	3	3	0	3	2	0	3	3	0	2	3	0	3	212



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

VMX-II-TX-XXLC-X-3K-UNV-AM-FINISH

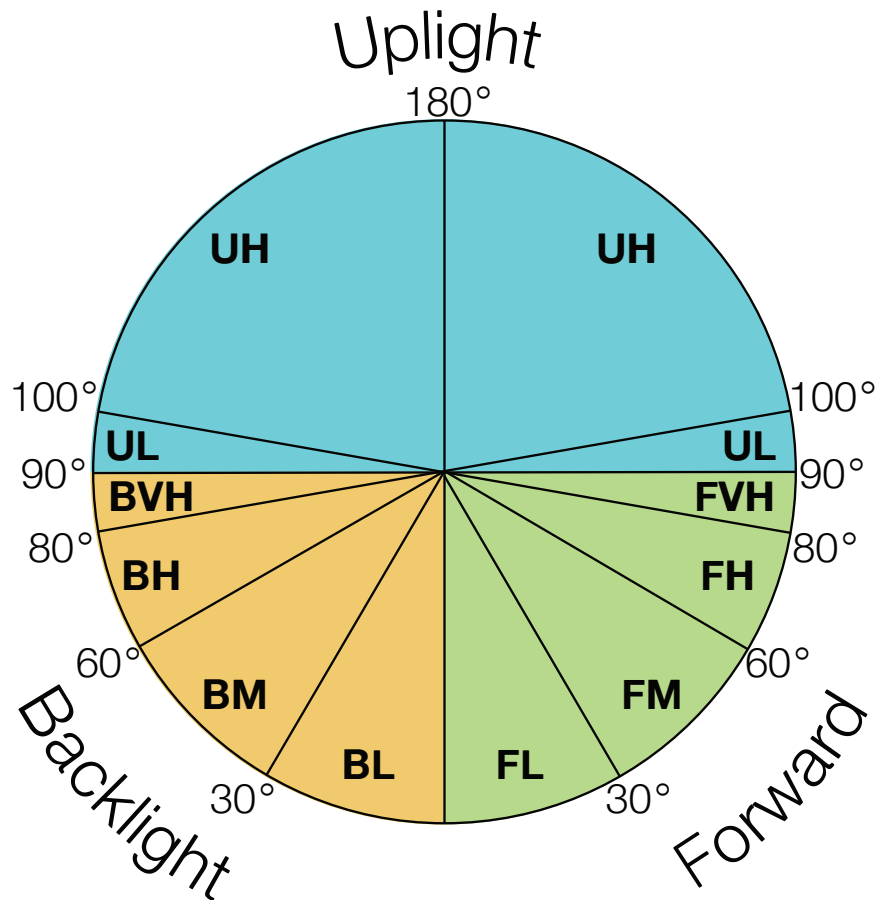
Notes:

**Type:****P2-OPT 3**

SEATAC-WWA21-113425

LED Specifications **VMX-II****Bug Rating -**

The subzones are individually rated on a scale from 0 to 5, going from lowest to highest luminous flux. The highest rating of a subzone is considered the overall rating for that zone, and these readings are compiled into the BUG lighting classification: for example, B3 U1 G0. The tables below, which are based on the standards established by the IES, show the thresholds for each subzone.





**Job Name:**

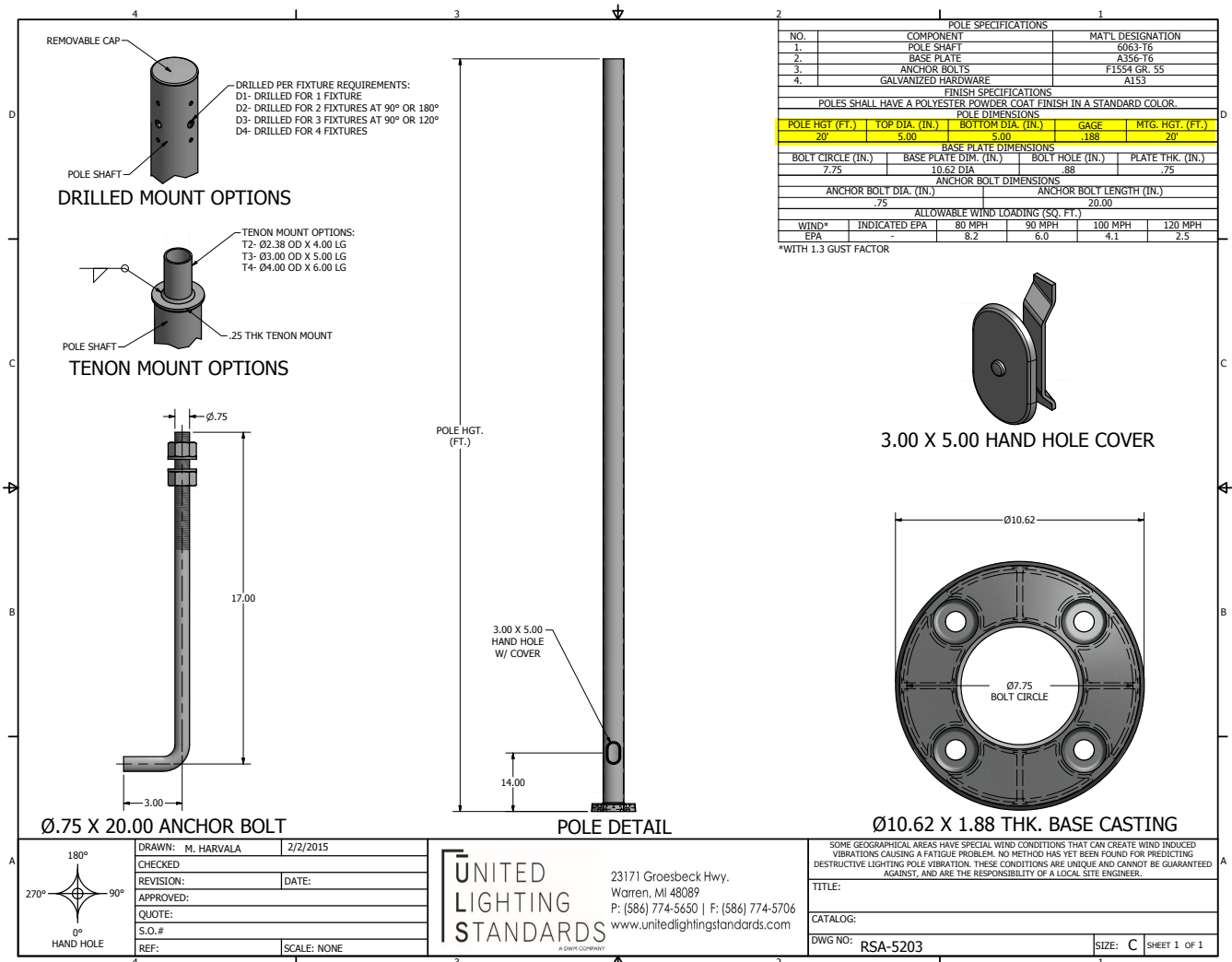
The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**  
RSA-5203-FINISH

Notes:

**Type:****P2-POLE**

SEATAC-WWA21-113425







www.unitedlightingstandards.com

## POLE ORDERING GUIDE

### ORDER NUMBER TEMPLATE

#### Example Order Number

Fixture				Mounting Type	Fixture Mounting Arrangement	Finish	Options			Accessories		
Brand	Product	Number					Design	Orientation	Height From Base	Design	Orientation	Height From Base
RPSQ	20	4	11	AB	T2	DB	WB-15	@90	10'	FH	@180	9'

#### Build Your Order Number

Fixture				Mounting Type	Fixture Mounting Arrangement	Finish	Options			Accessories		
Brand	Product	Number					Design	Orientation	Height From Base	Design	Orientation	Height From Base

#### Mounting Type

AB = Anchor Base  
EMB = Embedded (Direct Burial)

#### Fixture Mounting Arrangement

D1 D4  
D2@90 T2  
D2@180 T2.5  
D3@90 T3  
D3@120\* T4

\*Round poles only

Refer to the Mounting Orientation Guide on the next page of this file.

#### Finish

WH = White  
TWH = Textured White  
DB = Dark Bronze  
TMB = Textured Medium Bronze  
HB = Harvest Bronze  
NB = New Bronze  
SL = Silver  
MGY = Medium Gray  
GR = Gray  
TGR = Textured Gray  
GM = Graphite Metallic  
DP = Dark Platinum  
MA = Matte Aluminum  
PSP = Platinum Silver  
BK = Black  
TBK = Textured Black  
MG = Moss Green

Contact us for custom colors.

#### Options

CMB = Camera Mounting Bracket  
CMP = Camera Mounting Plate  
WB-15 = Welded Bracket  
WC = Welded Coupling (denote size)  
WN = Welded Nipple (denote size)  
Festoon = Festoon Provision  
CSBC = Custom Steel Base Cover  
VD = Vibration Dampener  
GFCI/IUC = Ground Fault Circuit Interrupter with In-Use Cover  
UL = UL Listed\*\*

\*See our online product catalog for complete catalog numbers of these options and accessories.

\*\* UL Listed labeling is available for catalog steel and aluminum poles—both Commercial & Industrial and Roadway. UL Listed labeling is not available for brackets. UL Listing must be specified at the time of order.

Note: N/A = Not Applicable

#### Accessories

TB = Transformer Base\*  
ABS-BC = ABS Base Cover\*  
LW = Lowering Winch  
LW-ELECTRIC = Electric Lowering Winch  
BA = Banner Arm  
FH = Flag Holder  
PTTA = Pole Top Tenon Adapter\*

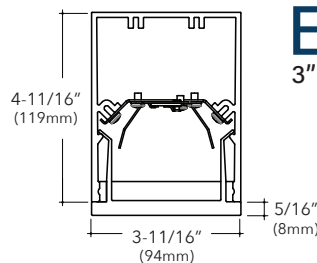
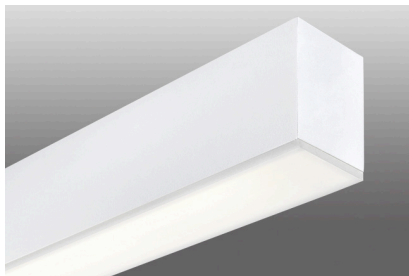


Submitted by Sea-Tac Lighting & Controls, LLC	<b>Job Name:</b> The Chehalis Tribe Chehalis Elder Center	<b>Catalog Number:</b> EX3WET-N-CL830746LM-4'-IND-PPXX-U-OL2-1-0-FINISH Notes:	<b>Type:</b> <b>PL-1</b> SEATAC-WWA21-113425
---	--	--	--

**P I N N A C L E**  
ARCHITECTURAL LIGHTING®

Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_



## EDGE EX3WET

3" Suspended Direct Linear WET



### Key Features

- Approved for wet location unless otherwise noted. IP65 and IK10 rated
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- All-inclusive module houses all LED system components in one compact unit
- Unit easily releases from the housing for room-side maintenance
- Wiring access available through bottom of housing
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Buy American Act compliant



Example Part #: EX3-WET-N-830HO-8'-IND-AC48G1-U-OL2-1-0-W

**EX3** - **WET** - **N** - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

DIRECT SHIELDING    INDIRECT SHIELDING    CRI, CCT & OUTPUT    LENGTH    MOUNTING    VOLTAGE    DRIVER    CIRCUITING    BATTERY & EMERGENCY    FINISH    FIXTURE OPTIONS

WET	N	-----	----
DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT <sup>1</sup>	LENGTH <sup>2</sup>
<b>WET</b> - Satine Wet Lens <i>Shielding pg. 2</i>	<b>N</b> - None <i>Shielding pg. 2</i>	_27_ - 2700K _30_ - 3000K _35_ - 3500K _40_ - 4000K _50_ - 5000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <i>Lumen Output pg. 2</i>	_ _ - Individual Fixture <i>Length pg. 2</i>

---	-----	-	---
POSITION <sup>3</sup>	MOUNTING <sup>4</sup>	VOLTAGE	DRIVER
<b>IND</b> - Individual Fixture <b>BOR</b> - Beginning of Row <b>MOR</b> - Middle of Row <b>EOR</b> - End of Row <i>Position pg. 3</i>	<b>PP</b> - <b>JB</b> - Pendant to J Box <b>PP</b> - <b>ST</b> - Pendant to Structure <b>WA</b> - Wall Mount <b>S</b> - Surface Mount <i>Mounting pg. 3</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 3</i>	<b>OL2</b> - Osram (1%, 0-10v, standard) <b>OL3</b> - Osram 347v (10%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10v) <b>LH1</b> - Lutron Hi-Lume (1%, EcoSystem) <b>LS1</b> - Lutron 5-Series (5%, EcoSystem) <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>PS1</b> - Advance Xitanium (50%/100%) <b>ND</b> - Non-Dimming <i>Driver pg. 3</i>

-	---	--	----	---
CIRCUITING	BATTERY & EMERGENCY <sup>5</sup>	FINISH	FIXTURE OPTIONS	CONTROLS
<b>1</b> - Single Circuit <b>M</b> - Multi Circuit <b>E</b> - Emergency (entire fixture) <b>N</b> - Night Light (entire fixture) <i>Circuiting pg. 4</i>	<b>0</b> - None <b>PLL</b> - Bodine 10w Integral <b>ILL</b> - Iota 10w Integral (CES listed) <b>E</b> - Emergency Section <b>N</b> - Night Light Section <b>L</b> - Life Safety Section <b>G</b> - Bodine GTD <i>Battery and Emergency pg. 4</i>	<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 4</i>	<b>GLR</b> - Internal Fast Blow Fuse <b>EPF</b> - End Power Feed <i>Fixture Options pg. 5</i>	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

<sup>1</sup>When specifying OUTPUT the first \_ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending \_ are for specifying output, example HO - High Output. See output charts for more information. <sup>2</sup>Individual fixtures come in nominal 2', 3', 4', 5', 6', 7', & 8' lengths, see pg. 2 for actual lengths. <sup>3</sup>Specify position of fixture. Use IND for an individual fixture, use BOR, MOR, or EOR for building connected rows. <sup>4</sup>Specify pendant length of either 12", 18" or 24". <sup>5</sup>Enter quantity for Battery and Emergency, Example 2P.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570

EX3\_WET\_LED\_SPEC\_NOV2020

A brand of **legrand**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

EX3WET-N-CL830746LM-4'-IND-PPXX-U-OL2-1-0-FINISH

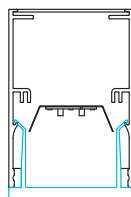
Notes:

**Type:****PL-1**

SEATAC-WWA21-113425

**PINNACLE**  
ARCHITECTURAL LIGHTING®**EDGE EX3** Suspended Linear WET**Direct Shielding****WET**

Satine Wet Lens

**Indirect Shielding****N**

None

**Output**

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

**CL830746**  
**80 CRI,3000K**  
**746 LM/FT**
**Custom Output- Lumens OR Wattage****CL** Specify CRI, CCT and desired lumens (i.e. CL835500)

Specify lumens between standard offering listed below. Lumens are specified per color temp

**CW** Specify CRI, CCT and desired wattage (i.e. CW9407)

Specify watts between standard offering listed below

**80 CRI**

	Color	Output	Watts per foot	Shielding <b>WET</b> Satine Wet Lumens/ft	LPW
<b>830</b>	3000K	Standard	4.7	436	92.8
<b>830HO</b>	3000K	High	8.7	788	91.1
<b>835</b>	3500K	Standard	4.7	445	94.7
<b>835HO</b>	3500K	High	8.7	804	92.9
<b>840</b>	4000K	Standard	4.7	457	97.2
<b>840HO</b>	4000K	High	8.7	827	95.6
<b>850</b>	5000K	Standard	4.7	456	97.0
<b>850HO</b>	5000K	High	8.7	825	95.4

**90 CRI**

<b>927</b>	2700K	Standard	4.7	344	73.2
<b>927HO</b>	2700K	High	8.7	623	72.0
<b>930</b>	3000K	Standard	4.7	370	78.7
<b>930HO</b>	3000K	High	8.7	668	77.2
<b>935</b>	3500K	Standard	4.7	391	83.2
<b>935HO</b>	3500K	High	8.7	706	81.6
<b>940</b>	4000K	Standard	4.7	391	83.2
<b>940HO</b>	4000K	High	8.7	706	81.6

**Length**

2	3	4	5	6	7	8
Individual Fixture	Individual Fixture	Individual Fixture	Individual Fixture	Individual Fixture	Individual Fixture	Individual Fixture
27-1/8" (689mm)						
	39" (991mm)					
		50-3/4" (1289mm)				
			62-5/8" (1591mm)			
				74-5/8" (1895mm)		
					86-1/2" (2197mm)	
						98-3/8" (2499mm)

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568

EX3\_WET\_LED\_SPEC\_OCT2020

pg. 2



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

EX3WET-N-CL830746LM-4'-IND-PPXX-U-OL2-1-0-FINISH

Notes:

**Type:****PL-1**

SEATAC-WWA21-113425

**PINNACLE**  
ARCHITECTURAL LIGHTING®**EDGE EX3** Suspended Linear WET**Position**

- When making rows with EDGE Wet, the rows must be ordered as individual units with a position specified
- Positions can either be "BOR" - Beginning of Row, "MOR" - Middle of Row, or "EOR" - End of Row
- The connection between fixtures is less than 1/8"
- For single, non-connected units, specify as "IND" for individual

**IND**

Individual Fixture

**BOR**

Beginning of Row

**MOR**

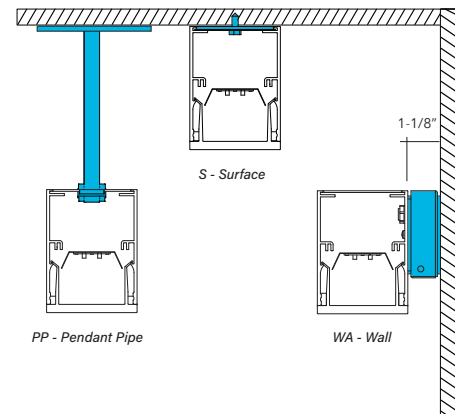
Middle of Row

**EOR**

End of Row

**Mounting**

- 1/2" diameter rigid stem pendant and wall mount available
- Specify overall pendant length of 12", 18" or 24"
- Specify pendant length in ordering code (PP12JB)
- Utilize Surface Mount for in-wall application. Building surface waterproofing by others
- End trims and power cord attached at factory
- Canopies and pendants match fixture finish, see Finish section for additional details
- Approved for wet location unless otherwise noted
- Refer to installation instructions during installation at the jobsite
- Fixtures may only be installed with the direct lens facing down. For an in-wall application with the lens facing outward, please see the EDGE Wet Recessed Spec Sheet

**PP\_JB** Pendant Pipe to J-Box**PP\_ST** Pendant Pipe to Structure**WA** Wall Mount**S** Surface**CONFIRM  
MOUNTING**

PP - Pendant Pipe

WA - Wall

**Voltage**

- Some EDGE Wet configurations will not accommodate all voltage options; consult with factory

**U** Universal**1** 120 volt**2** 277 volt**3** 347 volt**Driver**

- Standard Driver Option = OL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EDGE Wet configurations will not accommodate all driver options; consult with factory

**OL2** Osram Optotronic 1%, 0-10v, nominal 1% dimming range**OL3** Osram Optotronic 347v 10%, 0-10v, requires 347v option**EE1** eldoLED ECOdrive 1%, 0-10v Logarithmic**EE2** eldoLED ECOdrive 1%, 0-10v Linear**ES1** eldoLED SOLOdrive 0%, 0-10v Logarithmic**ES2** eldoLED SOLOdrive 0%, 0-10v Linear**LH1** Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1**LS1** Lutron 5-Series 5%, EcoSystem, LDE5**PL2** Advance Xitanium 1%, 0-10v**PS1** Advance Xitanium Step Dimming 50%/100%**ND** Non-Dimming

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568

EX3\_WET\_LED\_SPEC\_OCT2020

pg. 3



**PINNACLE**  
ARCHITECTURAL LIGHTING®

**EDGE** EX3 Suspended Linear WET



## How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
  - Some EDGE Wet configurations will not accommodate all circuiting options, consult with factory

### Circuiting

<b>1</b>	Single Circuit
<b>M</b>	Multi Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

- Battery and emergency section options are available in addition to fixture circuit
  - Select battery and emergency section options below; factory shop drawing required
  - Some EDGE Wet configurations will not accommodate all circuiting options, consult with factory

### Battery and/or Emergency If Required

<b>0</b>	No battery or specific emergency section required
----------	---

### Battery

- Select battery section type if required, indicate total QTY. *Example 2P*
- 90 minute battery runtime; test button is integral to fixture
- No battery option available for 2' lengths
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6', 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

<b>0</b>	No battery
<b>_PLL</b>	Bodine 10w Integral Lithium Self Testing (low profile)
<b>_ILL</b>	Iota 10w Integral Lithium Self Testing (CEC listed, low profile)

#### For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

### Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

<b>_E</b>	Emergency circuit section
<b>_N</b>	Night Light circuit section
<b>_L</b>	Life Safety circuit section NO THROUGH WIRE
<b>_G</b>	Bodine GTD, Generator Transfer Device section

#### Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery      Ordering Code: 1-1P
- Emergency only, 10w Integral Battery      Ordering Code: E-1P
- Single circuit, GTD required      Ordering Code: 1-1G

#### Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section      Ordering Code: 1-1P1E
- Multi circuit, (2) 10w battery, (2) emergency sections      Ordering Code: M-2P2E
- Single circuit, (1) night light section      Ordering Code: 1-1N

### Finish

**CONFIRM  
FINISH**

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

<b>W</b>	White ( <i>white pendant &amp; canopy</i> )
<b>S</b>	Metallic Silver ( <i>silver pendant &amp; canopy</i> )
<b>BL</b>	Textured Black ( <i>black pendant &amp; canopy</i> )
<b>BR</b>	Bronze ( <i>bronze pendant &amp; canopy</i> )
<b>GR</b>	Graphite ( <i>graphite pendant &amp; canopy</i> )
<b>CC</b>	Custom Color ( <i>color match pendant &amp; canopy</i> )

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568

EX3\_WET\_LED\_SPEC\_OCT2020

pg. 4



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

EX3WET-N-CL830746LM-4'-IND-PPXX-U-OL2-1-0-FINISH

Notes:

**Type:****PL-1**

SEATAC-WWA21-113425

**PINNACLE**  
ARCHITECTURAL LIGHTING®**EDGE** EX3 Suspended Linear WET**Fixture Options**

- Specify CC-C or CC-P to match housing. If not specified, canopy will be standard matte white.

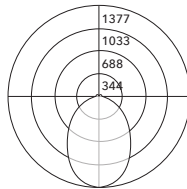
<b>GLR</b>	Internal Fast Blow Fuse
<b>EPF</b>	End Power Feed

**Controls**

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

**Photometrics****Satine Wet Lens**

Test #	Scaled from ITL86500
Catalog #	EX3-WET-N-840HO-4
Lumens	3307
Watts	34.6
Efficacy	95 LPW

**Candela Distribution**

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1377	1377	1377	1377	1377
5	1367	1367	1367	1366	1363
10	1341	1337	1333	1328	1325
15	1298	1285	1279	1270	1260
20	1236	1215	1206	1190	1177
25	1156	1131	1118	1095	1080
30	1062	1039	1019	989	974
35	961	939	915	882	870
40	855	836	809	775	763
45	747	730	705	672	657
50	635	626	603	573	562
55	531	526	505	480	473
60	432	430	415	394	388
65	337	339	329	316	312
70	252	255	252	247	243
75	171	178	183	183	182
80	102	112	123	127	129
85	46	60	75	84	87
90	3	19	37	49	53

**Luminance Data (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8673	7738	7081
55	7587	6670	6078
65	6512	5659	5157
75	5329	4711	4405
85	4082	4074	4177

For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com). Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

**Applications & Certificates**

**Construction** 6063-T5 extruded aluminum housing with welded ends. Internal lens gaskets seal housing to prevent moisture and debris from entering the fixture. Pressure equalizing vent allows fixture to "breathe" preventing condensation.

**Shielding** Solid acrylic diffuse snap-in lens with matte finish with an EPDM gasketed for complete wet seal.

**Mounting** Fixtures can be installed individually or connected for a continuous run appearance. IND fixtures are individual fixtures and have no joining holes. IND fixtures cannot be joined. BOR fixtures are used for beginning of row and have joining holes on non-power end of fixture. MOR fixtures are used for middle of row and have joining holes on both ends of fixture. EOR fixtures are used for the end of a row and have no joining holes on power end of fixture. Consult factory for detailed installation instructions.

**LED** 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 136,200 hours and L90 = 41,100 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**CRI, CCT & Lumen Output** Two lumen packages available. Standard and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

**Voltage** Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL3 in Driver section when 347 volt (3) is selected. Some EDGE Wet configurations will not accommodate all voltage options; consult with factory.

**Driver** Standard Driver Option is Osram 0-10V, 1% = OL2. Electronic driver, Power factor

is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 122°F/55°C. For more driver options, see Pinnacle Resource Guide. Some EDGE Wet configurations will not accommodate all driver options.

**Circuiting** Select from single circuit (1), Multi circuit - For multiple circuiting and zone control, requires factory shop drawing (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EDGE Wet configurations will not accommodate all circuiting options; consult with factory.

**Battery & Emergency** Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

**Finish** Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes or for additional custom color and finish options.

**Controls** Consult Factory

**Labels** UL and cUL Listed, approved for wet location unless otherwise noted. IP65 and IK10 rated.

**Buy American Act Compliant**

**Warranty** EDGE Wet LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

Specifications and dimensions subject to change without notice. Specification sheets that appear on [pinnacle-ltg.com](http://pinnacle-ltg.com) are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | [pinnacle-ltg.com](http://pinnacle-ltg.com) | O: 303-322-5570 F: 303-322-5568

EX3\_WET\_LED\_SPEC\_OCT2020

pg. 5



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

FCC800-15-SPM-LENGTH-UNV-830-25L-FINISH-40-LD-N/A

Notes:

**Type:****PL-3**

SEATAC-WWA21-113425



Date:

Approved:

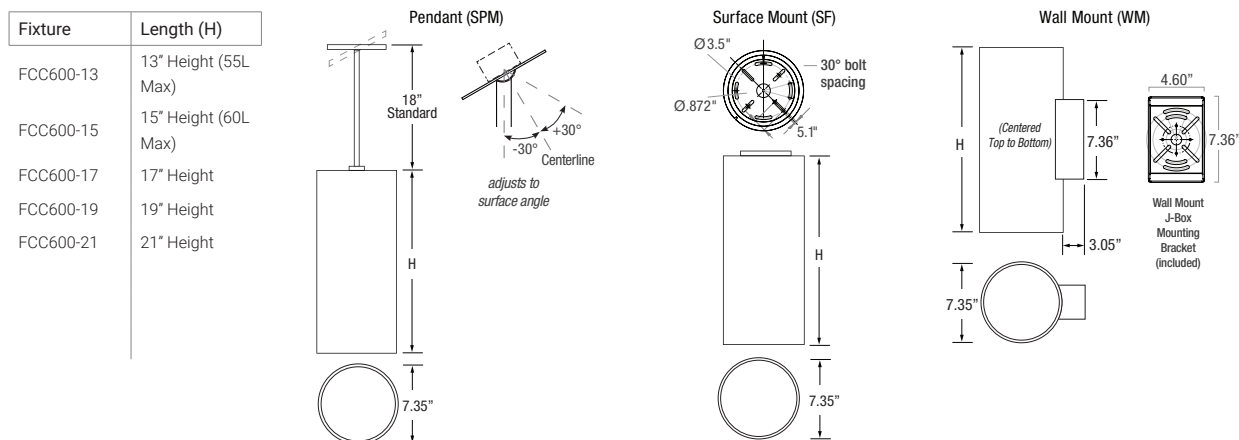
Type:

Fixture:

Project:

**FCC800 Down Only, Standard Drivers without Battery Backup****8" Round wall, pendant or surface mount down cylinder outdoor****FEATURES**

- Up to 6500 lm, Up to 100 LPW
- Numerous mounting capabilities
- Clear anti-glare tempered glass lens (IK09)
- Multiple color finishes with AAMA 2605 option (10 yr. paint warranty)
- 0-10V 1% Dimming (Standard)
- 1.5G Vibration Tested
- 93 CRI with 2 SDCM

**Z QUICK SHIP PRODUCT****PERFORMANCE****Beam Spread:** 15° | 25° | 40° | 50° | 72°**CCT Options:** 2700K | 3000K | 3500K | 4000K**CRI:** 93 CRI**Consistency:** 2 SDCM (Fixture to Fixture)**Lumens:** 2000-6500 lm**Lifetime:** > 70,000 hours / L70 or better**PHYSICAL****Mounting:** Mounts directly to standard recessed junction box with wall mount or twist-lock canopy. Additional holes allow unit to be attached directly to mounting surface.**Ingress Protection:** Continuous silicone gasket to seal out contaminants, IP65 rated for dry, damp or wet locations**Finish:** Six stage chemical iron phosphate conversion pre-treatment. Polyester powder coat finish, 18 µm Min., 5000hr salt spray test (ASTM B117) compliant with Florida / AAMA 2604 specification. AAMA 2605 optional w/ 10 yr. paint warranty.**Warranty:** 5-Year limited warranty (refer to website for details)**Housing:** Heavy-walled, extruded aluminum housing with high pressure die-cast lens ring and cap with stainless steel hardware.**Lens:** IK09 impact compliant, clear anti-glare tempered glass**Vibration Resistance:** Compliant with 1.5G ANSI C136.31, Seismic rated AC-156**Weight:** 8-12 lbs (Depending on Length)**Operating Temperature:** -22°F to 122°F (-30°C to 50°C)**ELECTRICAL****Voltage:** Universal 120-277V AC standard, 347V optional**Power Supply:** Integral Class II, electronic high-power factor >.90, THD < 20%, FCC Title 47 Part 15 Class A. EldoLED & Lutron optional**Power Consumption:** Up to 6500 lm @ 67W**Dimming:** Standard: 0-10V, 1% Dimming, Optional: ELV, TRIAC, dim to off, DMX, DALI**Certification:** CEC Title 24 - JA8 Compliant (93 CRI Only)**Standards:** cETLus Listed, CE, NOM, and RoHS Compliant. Wet location listed for wall or ceiling mount IP65 Ingress protection. 1.5G (ANSI C136.31) Vibration resistance rated. IK09 (IEC6226) Impact resistance rated. IESNA LM79 Photometric testing by NVLAP accredited test lab. IESNA LM80 LED testing by NVLAP accredited test lab. IESNA TM21 Luminaire lumen depreciation projection to >70,000hrs.**PHYSICAL DIMENSIONS**

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of +/- 7%.

© FC Lighting, Inc. 3609 Swenson Ave • St. Charles, IL • 60174 | fclighting.com | 800.900.1730



US Commercial Lighting Manufacturer Since 1982

S0-AG-DH-6721



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

FCC800-15-SPM-LENGTH-UNV-830-25L-FINISH-40-LD-N/A

Notes:

**Type:****PL-3**

SEATAC-WWA21-113425



Date:

Approved:

Type:

Fixture:

Project:

**FCC800 Down Only, Standard Drivers without Battery Backup****PRODUCT CODE****EXAMPLE:** FCC800-13-SPM-18-UNV-927-20L-BKE-15-ET-CV

MODEL	HEIGHT	MOUNTING	SUSP. LENGTH	VOLTAGE	COLOR	LUMENS	FINISH	OPTIC	DIMMING	OPTIONS	BATTERY
FCC800											

**MODEL**

**FCC800**

**HEIGHT**

13 13" Height (55L Max)

**15** 15" Height (60L Max)

17 17" Height

19 19" Height

21 21" Height

**MOUNTING**

**SPM** Slope Pendant

SF Surface

WM Wall

**SPM LENGTH**

**CONFIRM LENGTH**

Specify the optional suspension length in inches. (Top of fixture to ceiling) (SPM 18" Standard, 4"-120" Max; 61"-120" w/LD & ET Only and stem comes in 2 sections) \*Consult factory & price guide for other lengths.

**VOLTAGE**

**UNV** Universal 120-277 Volt AC

347V 347 Volt AC

**COLOR**

927 (93CRI) 2700K

930 (93CRI) 3000K

935 (93CRI) 3500K

940 (93CRI) 4000K

**830** (83CRI) 3000K

840 (83CRI) 4000K

**LUMENS nominal**

20L 2000 lm

**25L** 2500 lm

30L 3000 lm

35L 3500 lm

40L 4000 lm

45L 4500 lm

50L 5000 lm

55L 5500 lm

60L 6000 lm (83CRI Only)

65L 6500 lm (83CRI Only)

**FINISH**

**CONFIRM FINISH**

BKE Black (AAMA 2604)

BRE Bronze (AAMA 2604)

SLE Silver (AAMA 2604)

WHE White (AAMA 2604)

CCE Custom Color (AAMA 2604)

BKED Black (AAMA 2605)

BRED Bronze (AAMA 2605)

SLED Silver (AAMA 2605)

WHED White (AAMA 2605)

CCED Custom Color (AAMA 2605)

**OPTIC nominal**

15 Spot (15°)

25 Narrow Flood (25°)

**40** Mid Flood (40°)

50 Flood (50°)

72 Wide Flood (72°)

**w/SOFT FIELD**

15S Spot (15°)

25S Narrow Flood (25°)

40S Mid Flood (40°)

50S Flood (50°)

72S Wide Flood (72°)

**DIMMING**

ET ELV or TRIAC Driver (120V Phase Dimming w/ UNV Driver)

**LD** 0-10V Dimming, 1% (Standard)

**OPTIONS**

CV Cut-Off Visor (Down Only)

**BATTERY**

**N/A** (Leave Blank)

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of +/- 7%.

© FC Lighting, Inc. 3609 Swenson Ave • St. Charles, IL • 60174 | fclighting.com | 800.900.1730



US Commercial Lighting Manufacturer Since 1982

S0-AG-DH-6721





## FCC800 Down Only, Standard Drivers without Battery Backup

### LUMENS nominal

Model	Watts	940
FCC800	18 W (Min)	2000 lm
	67 W (Max)	6500 lm

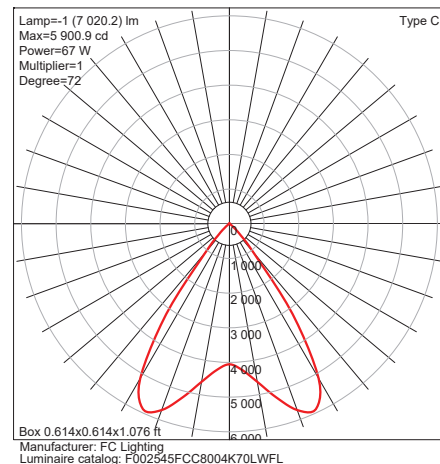
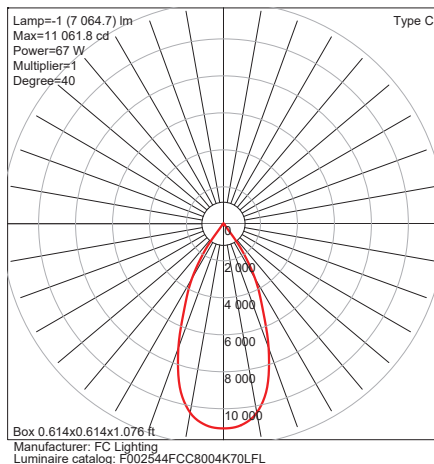
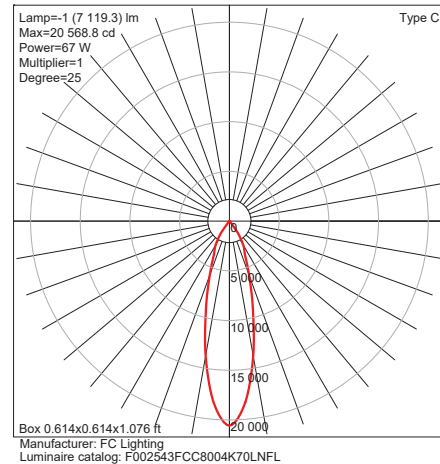
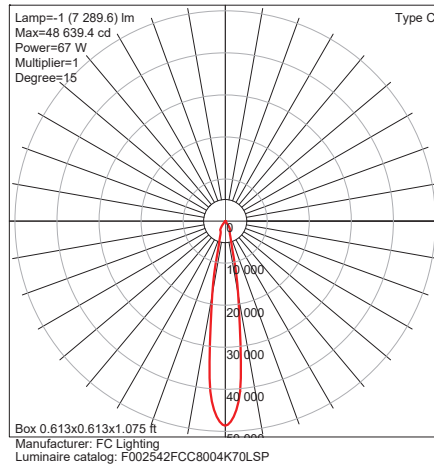
IES Multiplier	
Color	Multiplier
927	0.93
930	0.97
935	0.99
940	1.00

\*83CRI±1.15 Consult factory.

TRIAC & ELV Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Glyder GLV-600
	Diva DVLV-600P
	Diva DV-600P
	Diva DVELV-600P(303)
	Maestro MALV-600
	Nova T NT-1000
Leviton	Nova T NTELV-600
	Skylark SLV-600P
	RadioRA2-10ND
	SureSlide 6633
	Illumatech IPE04

0-10V Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Diva DVSTV-XX
	Diva DVSTV-453PH-WH1
Leviton	Illumatech 010-IP710-DLZ

### PHOTOMETRICS




Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of +/- 7%.

© FC Lighting, Inc. 3609 Swenson Ave • St. Charles, IL • 60174 | fcighting.com | 800.900.1730

US Commercial Lighting Manufacturer Since 1982

S0-AG-DH-6721



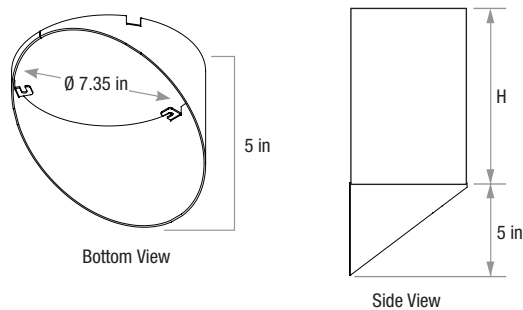
Submitted by Sea-Tac Lighting & Controls, LLC 	<b>Job Name:</b> The Chehalis Tribe Chehalis Elder Center	<b>Catalog Number:</b> FCC800-15-SPM-LENGTH-UNV-830-25L-FINISH-40-LD-N/A Notes:	<b>Type:</b> <b>PL-3</b> SEATAC-WWA21-113425
---	--	---	--



## FCC800 Down Only, Standard Drivers without Battery Backup

### MORE DIMENSIONS

Cutt-Off Visor (CV) *(Down Only)*



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of  $\pm 7\%$ .

© FC Lighting, Inc. 3609 Swenson Ave • St. Charles, IL • 60174 | [fclighting.com](http://fclighting.com) | 800.900.1730

 US Commercial Lighting Manufacturer Since 1982

S0-AG-DH-6721



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**LD4B20D010 EU4B10208030  
4LB(X)1H

Notes:

**Type:****RL-3**

SEATAC-WWA21-113425

**DESCRIPTION**

4 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 500 to 6000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. VividTune: Dim-to-warm technology - similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space. Tunable white technology - adjust the color temperature from warm white to cool white while independently controlling intensity.

**SPECIFICATION FEATURES****Lower Shielding Reflector**

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface. Plaster lathing ring accessory offered for flush reflector transition.

**Plaster Frame / Collar**

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Universal mounting bracket accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

**Junction Box**

Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

**Thermal**

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

**LED**

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours).

Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 2-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. **D2W™** - dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources. **W2N** - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI.

**Driver**

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture. Distributed low voltage power system combines power, lighting, and controls with ease of installation.

**Connected Lighting System Options**

Two WaveLinx connected systems to choose from. Refer to WaveLinx system specifications and application guides for details.

**WaveLinx Wireless System Tilemount Sensor Kit**

- WaveLinx Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - RealTime Location Services available.

**WaveLinx Lite System Tilemount Sensor Kit**

- WaveLinx Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

**WaveLinx Tilemount Kits Application**

- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

**Code Compliance**

Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2000 lumen and above are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. 5000 lumen and above are marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79. Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.

**Warranty**

5-year warranty

**Portfolio**

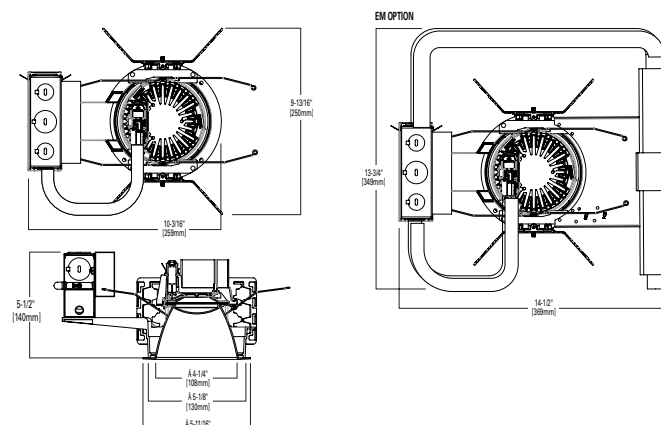
Catalog #	Type
Project	
Comments	Date
Prepared by	



**LD4B EU4B  
4LBW 4LBM  
4LBN**

500-6000 Lumen LED

**Narrow, Medium, or Wide Beam  
New Construction**





SAMPLE NUMBER: LD4B15D010IEMBOD				LD4B EU4B 4LBW 4LBM 4LBN
Housing	Lumens <sup>1</sup>	Voltage	Driver	Options <sup>3</sup>
LD4B=LED Downlight 4" Nominal Aperture LD4BCP=LED Downlight 4" Nominal Aperture, Chicago Plenum	05=500 lumens <sup>19</sup> 10=1000 lumens 15=1500 lumens 20=2000 lumens 30=3000 lumens 40=4000 lumens 50=5000 lumens <sup>15</sup> 60=6000 lumens <sup>15</sup>	Blank=120-277V 3=347V (step down transformer)	500-4000 D010=0-10V Dimming, 1% to 100%, 120V-277V D010TR=0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010=0-10V Linear Dimming, 0% to 100%, 120V-277V D5LT=5th Light (DALI) Logarithmic Dimming, 0% to 100%, 120V-277V DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V <sup>13</sup> DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection DL2=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DLE=Lutron Ecosystem dimming 1% to 100%, 120V-277V DLV=Low voltage dimming driver (1-100%) for use with DLV system (3000 lumen and below) <sup>3,14</sup> 5000-6000 D010TE=0-10V 1% or trailing edge 10%, 120-277V (120V only with trailing edge dimming) Tunable white 1000-2000 Lumens <sup>14</sup> 1DE010W2N2050=0-10V dimming, 0% to 100%, 120V, 2000K - 5000K 1DE010W2N2765=0-10V dimming, 0% to 100%, 120V, 2700K - 6500K 1D5LTW2N2050=5th Light (DALI), 0% to 100%, 120, 2000K - 5000K 1D5LTW2N2765=5th Light (DALI), 0% to 100%, 120V, 2700K - 6500K 2DE010W2N2050=0-10V dimming, 0% to 100%, 277V, 2000K - 5000K 2DE010W2N2765=0-10V dimming, 0% to 100%, 277V, 2700K - 6500K 2D5LTW2N2050=5th Light (DALI), 0% to 100%, 277V, 2000K - 5000K 2D5LTW2N2765=5th Light (DALI), 0% to 100%, 277V, 2700K - 6500K	EMBOD=Bodine® Emergency Module with Remote Test Switch EMBOD7ST=Bodine® Emergency Module with Self Test Remote Test Switch EM7=7W Emergency Module with Remote Test Switch EM14=14W Emergency Module with Remote Test Switch IEMBOD=Bodine® Emergency Module with Integral Test Switch IEM7=7W Emergency Module with Integral Test Switch IEM14=14W Emergency Module with Integral Test Switch EMV7=7W Low Voltage Emergency Module with Remote Test Switch <sup>4</sup> EMV14=14W Low Voltage Emergency Module with Remote Test Switch <sup>4</sup> IEMV7=7W Low Voltage Emergency Module with Integral Test Switch <sup>4</sup> IEMV14=14W Low Voltage Emergency Module with Integral Test Switch <sup>4</sup> WTA = Factory installed WaveLinX sensor Kit <sup>14 17</sup> WTK = Factory installed WaveLinX Lite Sensor Kit <sup>14 18</sup>

SAMPLE NUMBER: EU4B10208035				
Power Module	Lumen Levels <sup>1</sup>	CRI	Color	
EU4B=4" Universal LED Module	05=500 lumens 1020=1000, 1500, 2000 lumens 3040=3000-4000 lumens 5000=5000 lumens <sup>15</sup> 6000=6000 lumens <sup>15</sup> 1015IC=1000, 1500 lumen IC rated	80=80 CRI Minimum 90=90 CRI Minimum 97=97 CRI Minimum	80 CRI 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K	90 CRI 24=2400K 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K
Dim 2 Warm 109030D2W=1000 lumen, 90 CRI, Dim 2 Warm, IC rated 159030D2W=1500 lumen, 90 CRI, Dim 2 Warm, IC rated 209030D2W=2000 lumen, 90 CRI, Dim 2 Warm 309030D2W=3000 lumen, 90 CRI, Dim 2 Warm		Tunable white <sup>14</sup> 1020W2N902050 =1000, 1500, 2000 lumens, 90 CRI, tunable white 2000K-5000K 1020W2N902765 =1000, 1500, 2000 lumens, 90 CRI, tunable white 2700K-6500K		

Trim	Distribution <sup>5</sup>	Flange	Finish	Options
4LB=4" LED	N=Narrow (30° Beam), Spun Aluminum M=Medium (50° Beam), Spun Aluminum W=Wide (75° Beam), Spun Aluminum S=Shallow (75° Beam), Spun Aluminum PS=Non-conductive Shallow (75° Beam), Injection Molded white <sup>11</sup> CS=Cast Shallow (75° Beam), Die Cast Aluminum BA=Baffle, Spun Aluminum <sup>7</sup>	0=White Polymer Trim Ring 1=Self-flanged <sup>12</sup> 2=White Painted Self-flanged	LI=Specular Clear <sup>10</sup> H=Semi-Specular Clear <sup>10</sup> WMH=Warm Haze <sup>10</sup> WH=Wheat <sup>10</sup> GPH=Graphite Haze <sup>10</sup> B=Specular Black <sup>10</sup> MW=Matte White MB=Matte Black <sup>9</sup> MMS=Matte Metallic Silver <sup>8</sup>	E=Integral Emergency Test Switch Hole <sup>6</sup>


Accessories	Notes:	
HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope in 5° increments TRM4=Metal Trim Ring, Specify Color <sup>2</sup> TRR4=Trimless Trim Ring <sup>2</sup> LGSKT4IP66=IP66 Gasket Kit PRR4=Trimless Plaster Ring for Flush Mount <sup>2</sup> <b>Bar Hangers</b> HB26=C-channel Bar Hanger, 26" Long, Pair HB50=C-channel Bar Hanger, 50" Long, Pair RMB22=Wood Joist Bar Hanger, 22" Long, Pair <b>Transformers</b> H347=347 to 120V Step Down Transformer, 75VA H347200=347 to 120V Step Down Transformer, 200VA <b>Connected Lighting Systems</b> <sup>3,14</sup> WTA = Field installed WaveLinX sensor Kit <sup>17</sup> WTK = Field installed WaveLinX Lite Sensor Kit <sup>18</sup>	1 Nominal Lumens will vary depending on selected color, driver and reflector finish. 2 Order spun trim with polymer trim ring or die cast with rimless flange (Consult specification sheet for color ordering information and options). 3 Not available with Chicago Plenum. 4 ULUS approved only. 5 Beam angles are nominal with LI finish trims. 6 Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings. 7 Only available with Matte White and Matte Black Finishes. 8 Only available on CS distribution. 9 Available only on BA and CS distributions. 10 Not available on PS, CS or BA distributions. 11 Matte white and self flanged only, 2000 lumen max. 12 Flange is same finish as the reflector.	13 DMX fixtures default to full on upon loss of DMX signal. 14 Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver. 15 Product is marked spacing and must be installed with the following minimum spacing - Center to center of adjacent luminaires: 36" - Center of luminaire to side of building member: 18" - Minimum overhead: ½" 16 Non-IC 17 WTA = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only. 18 WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications) 19 Limited to D010 drivers.

ENERGY

ENERGY DATA
Sound Rating: Class A standards (Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

1000 Lumen D010		1500 Lumen D010	
Input Power: 11W	THD: <14%	Input Power: 15.5W	THD: <13%
120V Input Current: 0.09A	277V Input Current: 0.04A	120V Input Current: 0.13A	277V Input Current: 0.06A
2000 Lumen D010		3000 Lumen D010	
Input Power: 21.2W	THD: <9%	Input Power: 27.6W	THD: <10%
120V Input Current: 0.18A	277V Input Current: 0.08A	120V Input Current: 0.23A	277V Input Current: 0.10A
4000 Lumen D010		5000 Lumen D010TE	
Input Power: 41.6W	THD: <13%	Input Power: 57.9W	THD: <14%
120V Input Current: 0.35A	277V Input Current: 0.15A	120V Input Current: 0.49A	277V Input Current: 0.22A
6000 Lumen D010TE			
Input Power: 59.7W		THD: <14%	
120V Input Current: 0.50A		277V Input Current: 0.22A	

120V		277V		
Lumens	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027
4000 Lumen D010	1.2	0.088	3.9	0.03
5000 Lumen D010TE	5.1	0.132	10.2	0.153
6000 Lumen D010TE	5.4	0.123	10.8	0.154



TD520034EN page 2





**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

LD4B20D010 EU4B10208030  
4LB(X)1H

Notes:

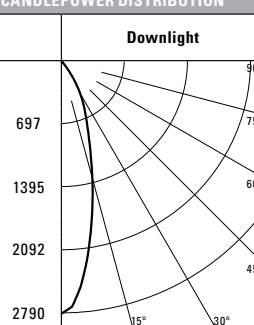
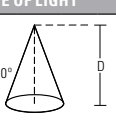
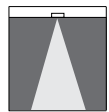
## Type:

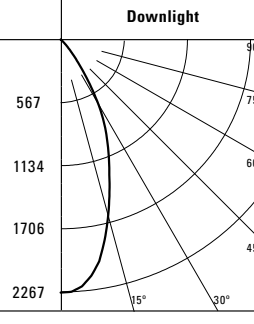
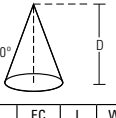
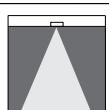
# RL-3

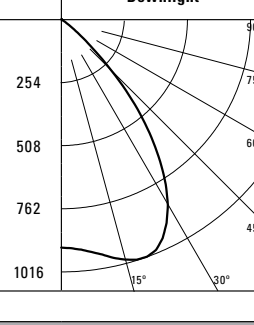
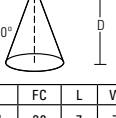
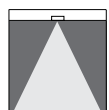
SEATAC-WWA21-113425

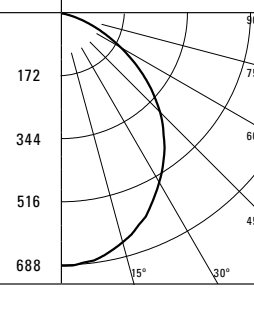
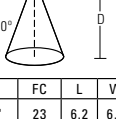

LD4B EU4B 4LBW 4LBM 4LBN

## PHOTOMETRY

NARROW (30° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201208					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B15D010					0	2790	0-30	926	82.1	45	489
Module	EU4B10208035					5	2550	0-40	1094	97	55	55
Trim	4LBN1LI					15	1421	0-60	1127	99.9	65	26
Lumens	1128					25	667	0-90	1128	100	75	0
Efficacy	78.9 Lm/W	35	266	90-180	0	0	85	0				
SC	0.5	45	32	0-180	1128	100						
												

MEDIUM (50° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201206					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B15D010					0	2267	0-30	1144	77.3	45	1072
Module	EU4B10208035					5	2227	0-40	1406	95	55	151
Trim	4LBM1LI					15	1690	0-60	1477	99.7	65	77
Lumens	1481					25	1027	0-90	1481	100	75	42
Efficacy	103.6 Lm/W	35	409	90-180	0	0	85	0				
SC	0.71	45	70	0-180	1481	100						
												

WIDE (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201204					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B15D010					0	914	0-30	816	53.8	45	4372
Module	EU4B10208035					5	925	0-40	1252	82.5	55	574
Trim	4LBW1LI					15	998	0-60	1513	99.7	65	100
Lumens	1518					25	977	0-90	1518	100	75	42
Efficacy	106.2 Lm/W	35	707	90-180	0	0	85	0				
SC	1.3	45	286	0-180	1518	100						
												

SHALLOW (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201210					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B15D010					0	688	0-30	512	34.2	45	5827
Module	EU4B10208035					5	682	0-40	816	54.5	55	4771
Trim	4LBCS1MMS					15	645	0-60	1333	89	65	3226
Lumens	1497					25	577	0-90	1497	100	75	1339
Efficacy	104.7 Lm/W	35	486	90-180	0	0	85	124				
SC	1.16	45	380	0-180	1497	100						
												



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

LD4B20D010 EU4B10208030

4LB(X)1H

Notes:

**Type:****RL-3**

SEATAC-WWA21-113425

LD4B EU4B 4LBW 4LBM 4LBN

**PHOTOMETRY**

NARROW (25° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	PP201209	Downlight		0°		Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B40D010					0	7625	0-30	2531	82.1	45	1337
Module	EU4B30408035					5	6969	0-40	2989	97	55	149
Trim	4LBN1LI					15	3883	0-60	3080	99.9	65	67
Lumens	3083					25	1822	0-90	3083	100	75	0
Efficacy	73.8 Lm/W					35	727	90-180	0	0	85	0
SC	0.5					45	87	0-180	3083	100		
						55	8					
						65	3					
						75	0					
						85	0					
						90	0					

MEDIUM (50° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201207	Downlight		0°		Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B40D010					0	6015	0-30	3036	77.3	45	2844
Module	EU4B30408035					5	5909	0-40	3731	95	55	400
Trim	4LBM1LI					15	4484	0-60	3918	99.7	65	205
Lumens	3929					25	2725	0-90	3929	100	75	113
Efficacy	94 Lm/W					35	1085	90-180	0	0	85	0
SC	0.71					45	186	0-180	3929	100		
						55	21					
						65	8					
						75	3					
						85	0					
						90	0					

WIDE (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201205	Downlight		0°		Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B40D010					0	2499	0-30	2230	53.8	45	11948
Module	EU4B30408035					5	2528	0-40	3421	82.5	55	1569
Trim	4LBW1LI					15	2727	0-60	4134	99.7	65	274
Lumens	4148					25	2670	0-90	4148	100	75	113
Efficacy	99.2 Lm/W					35	1933	90-180	0	0	85	0
SC	1.3					45	780	0-180	4148	100		
						55	83					
						65	11					
						75	3					
						85	0					
						90	0					

SHALLOW (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201211	Downlight		0°		Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD4B40D010					0	1880	0-30	1400	34.2	45	15933
Module	EU4B30508035					5	1864	0-40	2230	54.5	55	13046
Trim	4LBCS1MMS					15	1763	0-60	3645	89	65	8819
Lumens	4093					25	1578	0-90	4093	100	75	3657
Efficacy	97.9 Lm/W					35	1329	90-180	0	0	85	323
SC	1.16					45	1040	0-180	4093	100		
						55	691					
						65	344					
						75	87					
						85	3					
						90	0					



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

LD4B20D010 EU4B10208030

4LB(X)1H

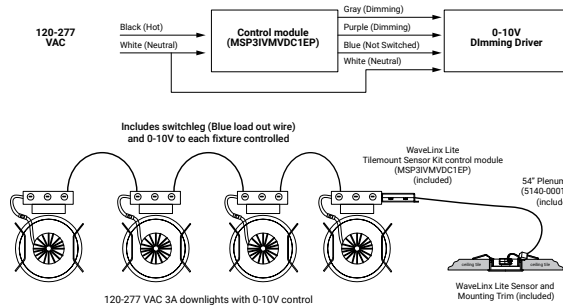
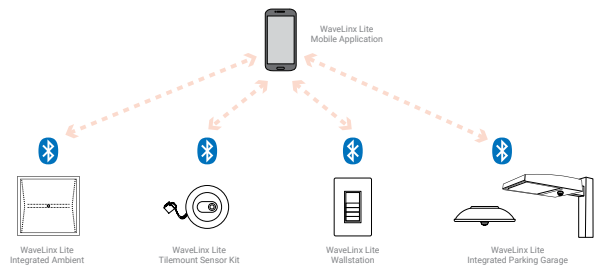
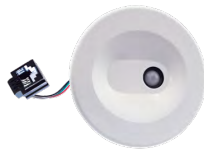
Notes:

**Type:****RL-3**

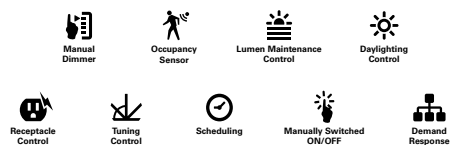
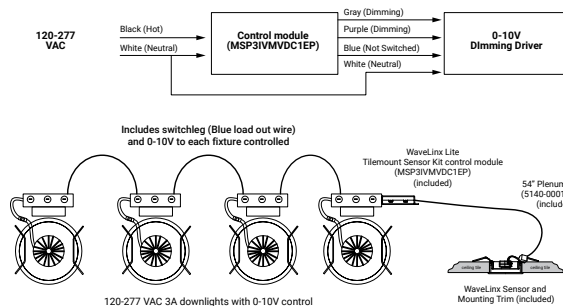
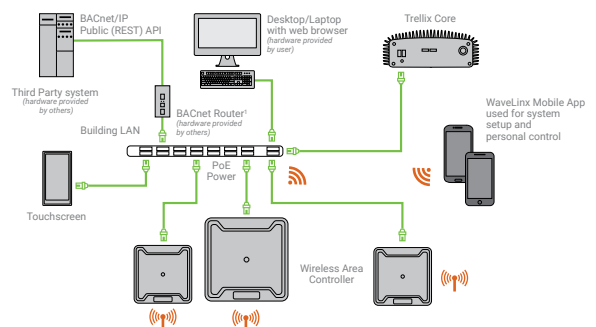
SEATAC-WWA21-113425

**Connected Systems****WaveLinX Lite - WTK Tilemount Sensor**

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX Lite Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details

**WaveLinX Lite WTK Tilemount Wiring Diagram****WaveLinX Lite Bluetooth Enabled System****WaveLinX Wireless – WTA Tilemount Sensor**

- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

**WaveLinX mobile app settings****WaveLinX Lite WTA Tilemount Wiring Diagram****WaveLinX Wireless Trellix Building Management Integration**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**LD2B(X)D010 EU2B(XX)8030  
2LBD1(X)

Notes:

**Type:****RL-4**

SEATAC-WWA21-113425

**Portfolio****DESCRIPTION**

2- inch LED recessed downlight with excellent light control and low aperture brightness. Offered with 15°, 25°, 40°, 55° or wall wash optic producing a smooth distribution. Lumen packages ranging from 500 to 2000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K and 5000K, in 80, 90 or 97CRI. Dim to warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space. Tunable white technology - adjust the color temperature from warm white to cool white while independently controlling intensity.

**SPECIFICATION FEATURES****Lower Reflector**

Round or square painted die cast aluminum or round anodized aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Anodized reflectors are offered in all Portfolio Alzak® finishes. Plaster lathing ring accessory offered for flush reflector transition.

**Trim Retention**

Reflector is retained with three or four pressure springs holding the flange tight to the finished ceiling surface.

**Optic**

TIR optic in 15°, 25°, 40, 55° or wall wash provides smooth beam without color separation. Media holder fits onto upper reflector and holds up one lens media. For non-lens trims only.

**Plaster Frame / Collar****New Construction**

Galvanized steel plaster frame designed for ceiling thickness from 1/2 to 1-1/4-inch.

**Retrofit**

Installs from below.

**Universal Mounting Bracket**

Accepts 1/2" EMT, C channel and bar hangers.

**Junction Box**

(4) 1/2" trade size pry outs positioned to allow straight conduit runs. Listed for (4) #12AWG (two in, two out) 90°C conductors and feed thru branch wiring. Lever connectors for simple push in wiring.

**Thermal**

Forged aluminum heat sink conducts heat away from the LED COB for optimal performance and long life.

**LED**

Chip on board with a multitude of highly efficient white LED's, combined with TIR optic produces an even distribution with no pixilation. Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours). Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 2-step MacAdam ellipses. Flexible disconnect allows for replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources. W2N -Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI.

**Driver**

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture with standard D010 driver. Other drivers require above ceiling access. Distributed low voltage power system combines power, lighting, and controls with ease of installation.

**Connected Lighting System Options**

Two WaveLinX connected systems to choose from. Refer to WaveLinX system specifications and application guides for details.

**WaveLinX Wireless System Tilemount Sensor Kit**

- WaveLinX Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional

RLTS - RealTime Location Services available.

**WaveLinX Lite System Tilemount Sensor Kit**

- WaveLinX Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

**WaveLinX Tilemount Kits Application**

- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

**Code Compliance**

Thermally protected and cULus listed for protected damp locations with open trims and cULus listed for protected wet locations with lensed trims. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Optional City of Chicago environmental air (CCEA) marking for plenum applications. 1500 lumen and above are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC-rated up to 1000 lumens (except wall wash). RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.

**Warranty**

5-year warranty

**LD2B EU2B 2LB**

500, 1000, 1500, 2000 Lumens

LED

2-Inch

Spun or Die Cast Aluminum

Downlight or Wall Wash

New Construction or Retrofit

2x4 and 2x6



Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

**ENERGY**

ENERGY DATA	
Sound Rating: Class A standards	
(Values at non-dimming line voltage)	
Minimum Starting Temperature: -30°C (-22°F)	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Input Voltage: UNV (120V - 277V)	
Power Factor: >0.90	
(at nominal input 120-277 VAC & 100% of Rated Output Power)	
Input Frequency: 50/60Hz	

500 Lumen D010				1000 Lumen D010			
Input Power: 7.38W	THD: <14.4%	Input Power: 11W	THD: <13.8%	Input Power: 11W	THD: <13.8%	Input Power: 11W	THD: <13.8%
120V Input Current: 0.06A	277V Input Current: 0.03A	120V Input Current: 0.06A	277V Input Current: 0.042A	120V Input Current: 0.06A	277V Input Current: 0.042A	120V Input Current: 0.06A	277V Input Current: 0.042A

1500 Lumen D010				2000 Lumen D010			
Input Power: 15.09W	THD: <13.0%	Input Power: 21.2W	THD: <8.6%	Input Power: 21.2W	THD: <8.6%	Input Power: 21.2W	THD: <8.6%
120V Input Current: 0.13A	277V Input Current: 0.06A	120V Input Current: 0.18A	277V Input Current: 0.081A	120V Input Current: 0.18A	277V Input Current: 0.081A	120V Input Current: 0.18A	277V Input Current: 0.081A

Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
500 Lumen D010	0.64	0.05	1.4	0.04
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	1.02	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027



Submitted by Sea-Tac Lighting & Controls, LLC	<b>Job Name:</b> The Chehalis Tribe Chehalis Elder Center	<b>Catalog Number:</b> LD2B(X)D010 EU2B(XX)8030 2LBD1(X) Notes:	<b>Type:</b> <b>RL-4</b> SEATAC-WWA21-113425
---	--	--	--

LD2B EU2B 2LB

## ORDERING INFORMATION

SAMPLE NUMBER: LD2B15D010

Housing	Lumens <sup>1</sup>	Voltage	Driver	Options
<b>LD2B=2" New Construction Downlight</b> <b>LDRT2B=2" Remodel Downlight</b> limit to 1500 lumen <sup>13</sup> <b>LD2BCP=2" LED Downlight</b> Nominal Aperture, Chicago Plenum <sup>12</sup>	5=500 lumens <sup>16</sup> 10=1000 lumens 15=1500 lumens 20=2000 lumens	<b>Blank=120-277V</b> 3=347V 0-10V only 1000-2000 lumens	<b>500 - 2000 Lumens</b> <b>D010=0-10V Dimming, 1% to 100%, 120V-277V</b> <b>DLV=Low voltage dimming driver (1-100%) for use with DLVP system<sup>8</sup></b> <b>1000 - 2000 Lumens</b> <b>D010TR=0-10V or Line Voltage Dimming, 1% to 100%, 120V-277V</b> <b>DE010=0-10V Linear Dimming, 0% to 100%, 120V-277V<sup>6</sup></b> <b>D5LT=Fifth Light® (DALI) Logarithmic Dimming, 0% to 100%, 120V-277V<sup>6</sup></b> <b>DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V<sup>6,9</sup></b> <b>DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection<sup>6,9</sup></b> <b>DL2=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only<sup>6</sup></b> <b>DLE=Lutron Ecosystem dimming 1% to 100%, 120V-277V<sup>6</sup></b> <b>Tunable White</b> <b>D5LTW2N2050 = Fifth Light (DALI) 0-100%, 120-277V, 2000K-5000K</b> <b>D5LTW2N2765 = Fifth Light (DALI) 0-100%, 120-277V, 2000K-5000K</b> <b>DE010W2N2050 =0-10V dimming, 0-100%, 120-277V, 2000K-5000K</b> <b>DE010W2N2765 =0-10V dimming, 0-100%, 120-277V, 2700K-6500K</b>	<b>EMBOD=Bodine® Emergency Module with Remote Test Switch<sup>6</sup></b> <b>EMBOD7ST=Bodine® Emergency Module with Self Test Remote Test Switch<sup>6</sup></b> <b>EM7=7W Emergency Module with Remote Test Switch<sup>8</sup></b> <b>EM14=14W Emergency Module with Remote Test Switch<sup>6</sup></b> <b>EMV7=7W Low Voltage Emergency Module with Remote Test Switch<sup>6</sup></b> <b>EMV14=14W Low Voltage Emergency Module with Remote Test Switch<sup>6</sup></b> <b>WTA = Factory installed WaveLinX sensor Kit<sup>10 14</sup></b> <b>WTK = Factory installed WaveLinX Lite Sensor Kit<sup>10 15</sup></b>

SAMPLE NUMBER: EU2B158035

CONFIRM  
OUTPUT & OPTIC

Power Module	Lumen Levels / Distribution <sup>1</sup> / Optic	CRI	Color			
<b>EU2B=2" Universal LED Module</b>	<b>05SP15=500 lumen 15° IC Rated</b> <b>05WW=500 lumen wall wash IC Rated<sup>8</sup></b> <b>10SP15=1000 lumen 15° IC Rated</b> <b>10WW=1000 lumen wall wash Non-IC Rated<sup>8</sup></b> <b>0510NFL25=500 and 1000 lumen 25° IC Rated</b> <b>0510FL40=500 and 1000 lumen 40° IC Rated</b> <b>0510WFL55=500 and 1000 lumen 55° IC Rated</b> <b>15NFL25=1500 lumen 25° Non IC Rated</b> <b>15FL40=1500 lumen 40° Non IC Rated</b> <b>15WFL55=1500 lumen 55° Non IC Rated</b> <b>15WW=1500 lumen wall wash Non IC Rated<sup>8</sup></b> <b>20NFL25=2000 lumen 25° Non IC Rated</b> <b>20FL40=2000 lumen 40° Non IC Rated</b> <b>20WFL55=2000 lumen 55° Non IC Rated</b>	<b>80=80 CRI minimum</b> <b>90=90 CRI minimum</b> <b>97=97 CRI minimum</b>	<b>80 CRI</b>	<b>90 CRI</b>	<b>97 CRI</b>	
			27=2700K <b>30=3000K</b> 35=3500K 40=4000K 50=5000K	24=2400K 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K	27=2700K 30=3000K	
		<b>Dim to Warm (1500 lumens and below)</b>		Tunable White <sup>11</sup>		
		<b>10NFL259030D2W=1000 lumen 25° IC Rated</b> <b>15NFL259030D2W=1500 lumen 25° Non-IC</b> <b>10FL409030D2W=1000 lumen 40° IC Rated</b> <b>15FL409030D2W=1500 lumen 40° Non-IC</b> <b>10WFL559030D2W=1000 lumen 55° IC Rated</b> <b>15WFL559030D2W=1500 lumen 55° Non-IC</b>		<b>W2N902050 = 1000 lumen 40° 2000K-5000K</b> <b>W2N902765 = 1000 lumen 40° 2700K-6500K</b>		

SAMPLE NUMBER: 2LBD1LI

CONFIRM  
FINISH

Trim	Reflector	Flange	Finish
<b>2LB=2" LED</b>	<b>D=Round downlight spun reflector</b> <b>SW=Round lensed Wall Wash, Spun Aluminum, Splay black occlus</b> <b>SWW=Round lensed Wall Wash, Spun Aluminum, Splay white occlus</b> <b>DL=Round Downlight lensed spun reflector</b> <b>DC=Round Cast Downlight<sup>2</sup></b> <b>DLC=Round Lensed cast downlight<sup>2</sup></b> <b>PIN=Round Pinhole downlight black occlus<sup>3</sup></b> <b>PINW=Round Pinhole downlight white occlus<sup>3</sup></b> <b>DSQC=Square Cast Downlight<sup>2</sup></b> <b>DSQLC=Square Lensed cast shallow downlight<sup>2</sup></b>	<b>1=Self-flanged<sup>7</sup></b> <b>2=White Painted Self-flanged<sup>11</sup></b> <b>3=Trimless<sup>3</sup></b> <b>Blank=Pinhole</b>	<b>LI=Specular Clear<sup>4</sup></b> <b>H=Semi-Specular Clear<sup>4</sup></b> <b>WMH=Warm Haze<sup>4</sup></b> <b>WH=Wheat<sup>4</sup></b> <b>GPH=Graphite Haze<sup>4</sup></b> <b>B=Specular Black<sup>4</sup></b> <b>MW=Matte White</b> <b>MB=Matte Black<sup>3</sup></b> <b>MMS=Matte Metallic Silver<sup>3</sup></b>

## Accessories

**RPR2=Round plaster lathing ring (order with rimless option)**

## Bar Hangers

**HB26=Pair C-channel bar hanger, 26" long**

**RMB22=Pair wood joist bar hanger 22" long**

## Connected Lighting Systems<sup>10</sup>

**WTA = Field installed WaveLinX sensor Kit<sup>14</sup>**

**WTK = Field installed WaveLinX Lite Sensor Kit<sup>15</sup>**

## L100 lenses - optical lenses

**L110N=Diffuse Sandblasted Lens: Provides an even beam spread - especially useful in wall washing.**  
**L111=Soft Focus Lens: Smooths irregular beam pattern while maintaining high controlled illumination levels and beam angles.**

**L113=Prismatic Spread Lens: Provides a symmetrical broadening of lamp beam. Suitable when a wide, uniform light distribution is required.**

**L115=Linear Spread Lens: Fans out the beam 55° (27-1/2° to each side) to produce a wide rectangular pattern.**

**L100MB=Black finished metal hexagonal-cell louver - controls light spill while retaining lamp optics.**

## Notes:

- Nominal Lumens will vary depending on selected distribution, color, driver and reflector finish.
- Only available with Matte White, Matte metallic silver and Matte Black Finishes.
- Available on DC, DLC and PIN.
- Not available on DC or PIN.
- DMX, D5LT, DE010, DLC, Lutron, connected and emergency module drivers require accessible ceiling.
- Flange is the same finish as reflector.
- Order with 2LBSW Wall Wash trim.
- DMX fixtures default to full on upon loss of DMX signal.
- Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.
- Not available with Wall Wash.
- Limited to 1000 lumens.
- Available with D010 driver only.
- WTA = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
- WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications)
- Limited to D010 and D010A drivers.



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

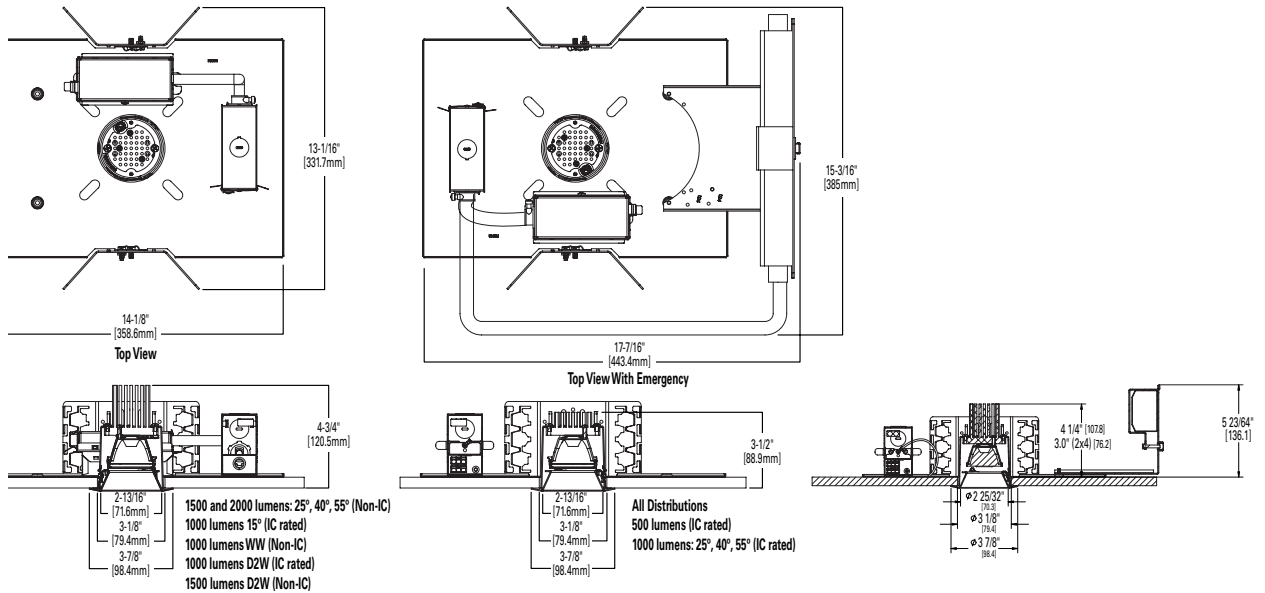
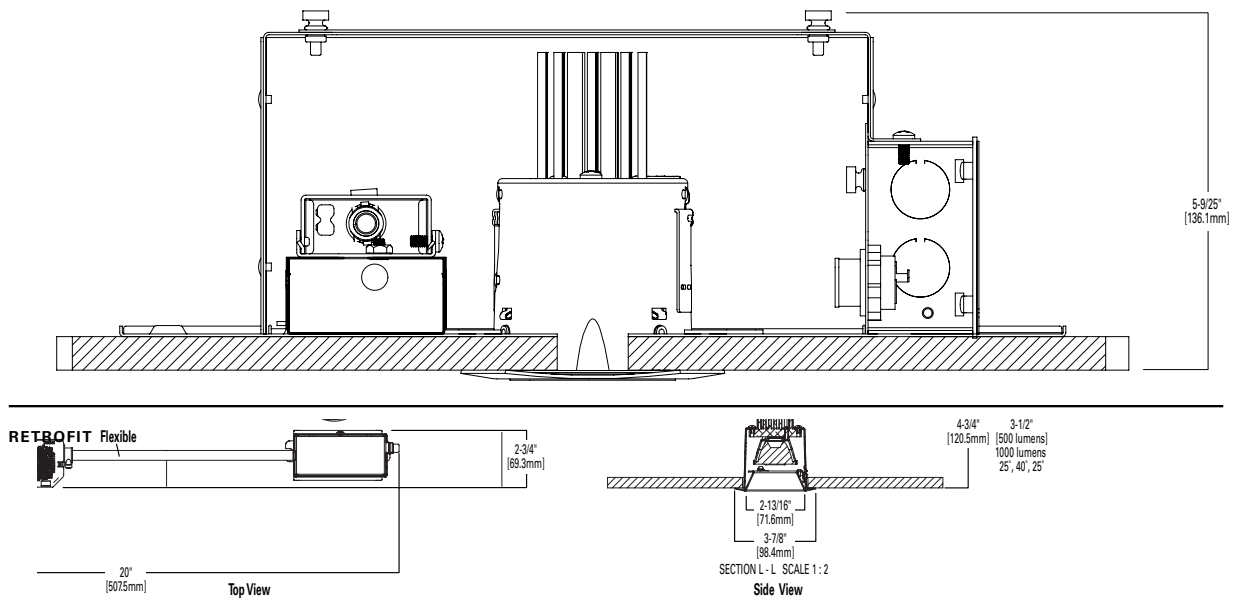
**Catalog Number:**LD2B(X)D010 EU2B(XX)8030  
2LBD1(X)

Notes:

**Type:****RL-4**

SEATAC-WWA21-113425

LD2B EU2B 2LB

**DIMENSIONS****NEW CONSTRUCTION****CHICAGO PLENUM**



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**LD2B(X)D010 EU2B(XX)8030  
2LBD1(X)

Notes:

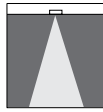
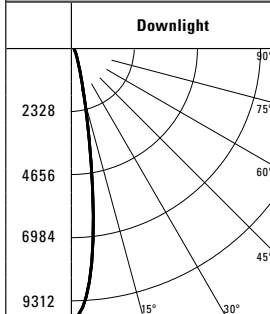
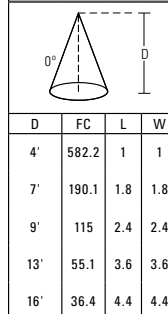
**Type:****RL-4**

SEATAC-WWA21-113425

LD2B EU2B 2LB

**PHOTOMETRY****SPOT (15° BEAM)**

Test Number	P264029
Housing	LD2B10D010
Module	EU2B1010SP158035
Trim	2LBD*LI
Lumens	974
Efficacy	94.6 Lm/W
SC	0.28

**CANDLEPOWER DISTRIBUTION****CONE OF LIGHT****CANDELA TABLE**

Degrees Vertical	Candela
0	9316
5	7438
15	976
25	141
35	30
45	7
55	2
65	1
75	0
85	0
90	0

**ZONAL LUMEN SUMMARY**

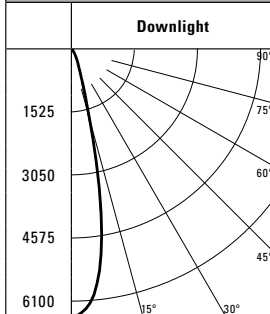
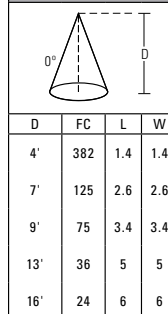
Zone	Lumens	% Fixture
0-30	945	97
0-40	965	99.1
0-60	973	99.9
0-90	974	100
90-180	0	0
0-180	974	100

**LUMINANCE**

Average Candela Degrees	Average 0° Luminance
45	4884
55	1720
65	1167
75	0
85	0

**FLOOD (25° BEAM)**

Test Number	P218711
Housing	LD2B10D010
Module	EU2B0510NFL258035
Trim	2LBD*LI
Lumens	1026
Efficacy	99.6 Lm/W
SC	0.39

**CANDLEPOWER DISTRIBUTION****CONE OF LIGHT****CANDELA TABLE**

Degrees Vertical	Candela
0	6104
5	5611
15	1236
25	229
35	51
45	7
55	1
65	0
75	0
85	0
90	0

**ZONAL LUMEN SUMMARY**

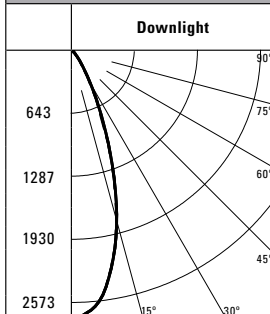
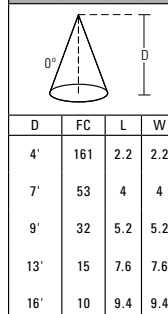
Zone	Lumens	% Fixture
0-30	987	96.2
0-40	1019	99.3
0-60	1026	100
0-90	1026	100
90-180	0	0
0-180	1026	100

**LUMINANCE**

Average Candela Degrees	Average 0° Luminance
45	3836
55	676
65	0
75	0
85	0

**FLOOD (40° BEAM)**

Test Number	P218754
Housing	LD2B10D010
Module	EU2B0510FL408035
Trim	2LBD*LI
Lumens	1041
Efficacy	101 Lm/W
SC	0.59

**CANDLEPOWER DISTRIBUTION****CONE OF LIGHT****CANDELA TABLE**

Degrees Vertical	Candela
0	2577
5	2467
15	1626
25	581
35	120
45	19
55	4
65	0
75	0
85	0
90	0

**ZONAL LUMEN SUMMARY**

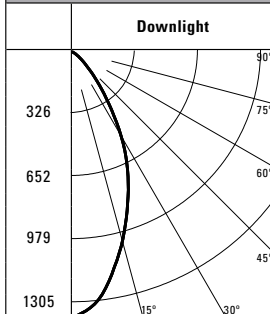
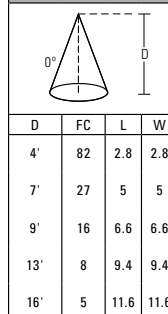
Zone	Lumens	% Fixture
0-30	938	90.2
0-40	1020	98.0
0-60	1040	99.9
0-90	1041	100
90-180	0	0
0-180	1041	100

**LUMINANCE**

Average Candela Degrees	Average 0° Luminance
45	10412
55	2702
65	0
75	0
85	0

**WIDE FLOOD (55° BEAM)**

Test Number	P218801
Housing	LD2B10D010
Module	EU2B0510WFL558035
Trim	2LBD*LI
Lumens	985
Efficacy	95.6 Lm/W
SC	0.73

**CANDLEPOWER DISTRIBUTION****CONE OF LIGHT****CANDELA TABLE**

Degrees Vertical	Candela
0	1309
5	1250
15	959
25	644
35	313
45	105
55	28
65	0
75	0
85	0
90	0

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Fixture
0-30	674	68.5
0-40	873	88.7
0-60	984	99.9
0-90	985	100
90-180	0	0
0-180	985	100

**LUMINANCE**

Average Candela Degrees	Average 0° Luminance
45	57541
55	18916
65	0
75	0
85	0



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**LD2B(X)D010 EU2B(XX)8030  
2LBD1(X)

Notes:

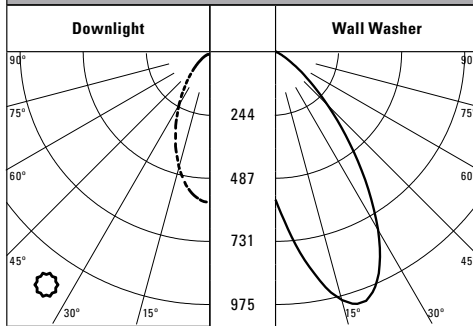
**Type:****RL-4**

SEATAC-WWA21-113425

LD2B EU2B 2LB

**PHOTOMETRY****WALL WASH**

Test Number	P14828
Housing	LD2B10D010
Module	EU2B1010WW8035
Trim	2LBSW*XX
Lumens	742
Efficacy	72 Lm/W

**CANDLEPOWER DISTRIBUTION**

LEGEND: 0-deg: — — — — —  
90-deg: — — — — —

**SINGLE UNIT FOOTCANDLES**

DD	3' FROM WALL (Distance From Fixture Along Wall)			
	1'	2'	3'	
1'	0.5	0.5	0.3	0.2
2'	4.3	3.3	1.4	0.5
3'	10.1	8.1	4.2	1.6
4'	12.2	10.2	5.9	2.8
5'	10.9	9.4	6.1	3.3
6'	8.6	7.6	5.4	3.2
7'	6.4	5.8	4.4	2.9
8'	4.7	4.4	3.5	2.4
9'	3.4	3.3	2.7	2
10'	2.6	2.4	2.1	1.6

**MULTIPLE UNIT FOOTCANDLES**

2.5' FROM WALL (Spacing Between Fixtures)						3' FROM WALL (Spacing Between Fixtures)					
●	3'	●	●	4'	●	●	3'	●	●	4'	●
1.3	1.1	1.3	1.2	0.7	1.2	0.7	0.8	0.7	0.6	0.6	0.6
10.7	8.7	10.7	10.2	4.9	10.2	4.8	4.6	4.8	4.5	2.9	4.5
19.2	18	19.2	17.8	11.5	17.8	11.8	12.1	11.8	10.7	8.3	10.7
19.3	19.9	19.3	17.5	14	17.5	15.1	16.1	15.1	13.4	11.9	13.4
15.6	16.9	15.6	13.8	12.8	13.8	14.2	15.7	14.2	12.5	12.3	12.5
11.7	12.9	11.7	10.2	10.4	10.2	11.8	13.2	11.8	10.3	10.7	10.3
8.5	9.5	8.5	7.5	8	7.5	9.2	10.4	9.2	8.1	8.8	8.1
6.3	7	6.3	5.5	6	5.5	7.1	7.9	7.1	6.3	6.9	6.3
4.6	5.1	4.6	4.1	4.6	4.1	5.4	6	5.4	4.8	5.4	4.8
3.5	3.8	3.5	3.1	3.5	3.1	4.2	4.6	4.2	3.7	4.2	3.7



**Job Name:**

The Chehalis Tribe Chehalis Elder Center

**Catalog Number:**

IST-SA1-X-730-U-T3-FINISH

Notes:

**Type:****WL-1**

SEATAC-WWA21-113425

Project		Catalog #		Type	
Prepared by		Notes		Date	



## McGraw-Edison

### Impact Elite LED

#### Wall Mount Luminaire

**Typical Applications**

Outdoor • Wall Mount • Walkways

**Interactive Menu**

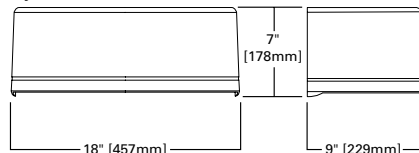
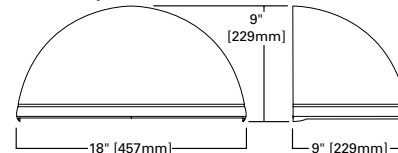
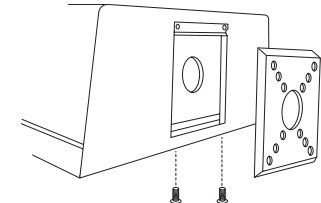
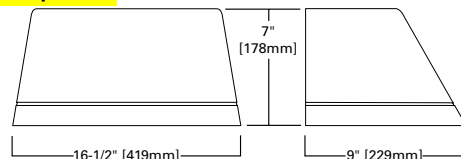
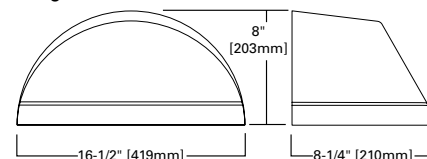
- Ordering Information page 2
- Product Specifications page 2
- Energy and Performance Data page 3
- Control Options page 4

**Product Certifications****Quick Facts**

- 10 Optical Distributions
- Lumen packages range from 2,459 to 8,123 (20W - 66W)
- Efficacy up to 143 lumens per watt

**Connected Systems**

- Enlighted
- WaveLinx

**Dimensional Details****Cylinder****Quarter Sphere****Hook - n - Lock****Trapezoid****Wedge**



## McGraw-Edison

## Impact Elite LED

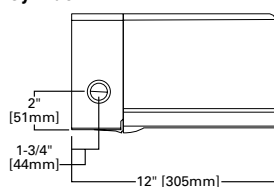
### Ordering Information

SAMPLE NUMBER: ISC-SA1F-740-U-T3-BZ

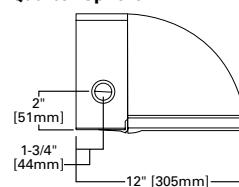
Product Family <sup>1</sup>	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge	SA1=1 Square	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA <sup>2</sup>	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm <sup>3,4</sup>	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>2,5</sup> 9=347V <sup>2</sup>	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
CONFIRM OUTPUT		CONFIRM FINISH				
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)		Accessories (Order Separately)		
HA=50°C High Ambient <sup>8</sup> AHD145=After Hours Dim, 5 Hours, 50% <sup>9</sup> AHD245=After Hours Dim, 6 Hours, 50% <sup>9</sup> AHD255=After Hours Dim, 7 Hours, 50% <sup>9</sup> AHD355=After Hours Dim, 8 Hours, 50% <sup>9</sup> CBP=Battery Pack with Back Box, Cold Weather Rated <sup>13,15</sup> CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant <sup>13</sup> LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield <sup>16</sup> ULG=Uplight Glow <sup>6,7</sup> TR=Tamper Resistant Hardware X=Driver Surge Protection (6kV) Only <sup>17</sup>		BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>2,6,7</sup> MS/DIM-LXX=Motion Sensor for Dimming Operation <sup>2,18,11,12</sup> LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height <sup>6,12,13</sup> LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height <sup>6,12,13</sup> ZW=WaveLinX-Enabled Module and 4-PIN Receptacle <sup>7</sup> ZD=WaveLinX-Enabled Module with DALI Driver and 4-PIN Receptacle <sup>7</sup> ZW-SWP4XX=WaveLinX Control Module and Wireless Sensor - 7'-15' <sup>7,18,20</sup> ZW-SWP5XX=WaveLinX Control Module and Wireless Sensor - 15'-40' <sup>7,18,20</sup> ZW-WOBXX=WaveLinX Control Module and LC Bluetooth Sensor - 7'-15' <sup>7,18,20</sup> ZW-WOFXX=WaveLinX Control Module and LC Bluetooth Sensor - 15'-40' <sup>7,18,20</sup> ZD-SWP4XX=WaveLinX with DALI Driver and Wireless Sensor - 7'-15' <sup>7,18,20</sup> ZD-SWP5XX=WaveLinX with DALI Driver and Wireless Sensor - 15'-40' <sup>7,18,20</sup> ZD-WOBXX=WaveLinX with DALI Driver and LC Bluetooth Sensor - 7'-15' <sup>7,18,20</sup> ZD-WOFXX=WaveLinX with DALI Driver and LC Bluetooth Sensor - 15'-40' <sup>7,18,20</sup>		MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge FSIR-100=Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin) <sup>7,19</sup> SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>7,18,20,21</sup> SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height <sup>7,18,20,21</sup>		
<b>NOTES:</b> 1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details. 2. Not available with ULG option. 3. Choose Drive Current "B" for Amber 590nm, which is provided at 500mA only 4. Narrow-band 590nm +/- 5nm for wildlife and observatory use. 5. 480V must use Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 6. Not available with ISS or ISW. 7. Cannot be used in conjunction with other control options. 8. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1000mA or less. 9. Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information. 10. Replace LXX with L08 (4' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 11. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Includes integral photocell. 13. Enlighted wireless sensors are factory installed and require network components in appropriate quantities. 14. Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes. 15. Must specify 120V or 277V. 16. Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 17. Removes additional surge module. 18. Replace XX with sensor color (WH, BZ, or BK). 19. Requires PR7. 20. For WaveLinX applications, WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. Gateway not required for WaveLinX Lite Commercial (LC) applications. 21. Requires ZW or ZD receptacle.						

### Thruway Back Box

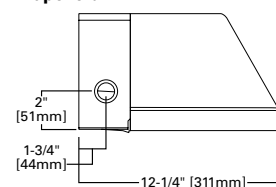
#### Cylinder



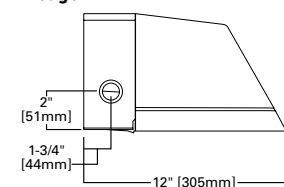
#### Quarter Sphere



#### Trapezoid



#### Wedge



### Product Specifications

#### Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access

#### Optics

- High-efficiency injection-molded AccuLED optics technology
- 10 optical distributions
- IDA Certified (3000K CCT and warmer only)

#### Electrical

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary

circuit module designed to withstand 10kV of transient line surge

- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

#### Mounting

- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment
- Two black oxide coated Allen set screws concealed but accessible from below

#### Finish

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

#### Warranty

- Five year warranty



## McGraw-Edison

## Impact Elite LED

### Energy and Performance Data

1 Light Squares (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120-277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Current (A)	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K, 70 CRI)													
T2	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
T3	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
T4FT	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
T4W	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
SL2	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
SL3	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
SL4	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
SLL	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
RW	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121

#### Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

\* Supported by IES TM-21 standards

\*\* Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

#### Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

 [View Impact Elite IES files](#)





## McGraw-Edison

## Impact Elite LED

### Control Options

#### 0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

#### Photocontrol (BPC and PR7)

Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

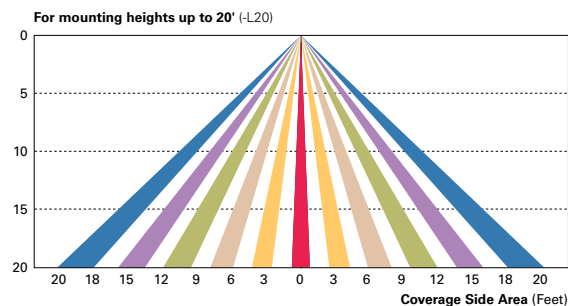
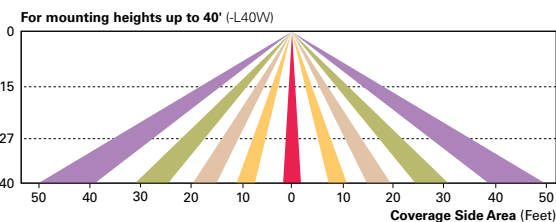
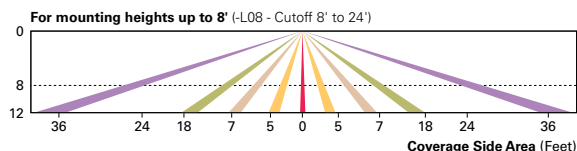
#### After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

#### Dimming Occupancy Sensor (MS/DIM-LXX)

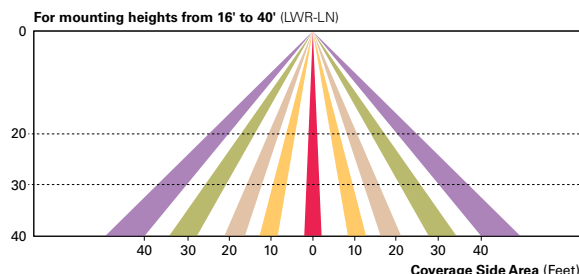
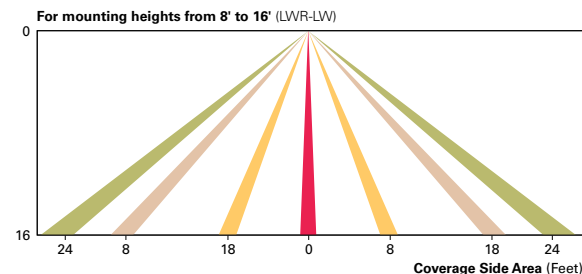
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



#### Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



#### WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.





**Date: Jun 9, 2021**

The Lighting Group LLC  
5700 6th Ave South, Ste 215  
Seattle WA 98108  
Phone: (206) 298-9000  
Fax: (206) 763-2764

Job Name  
**Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase**  
LGNW21-81871  
Oakville Wa

Bid Date  
Jun 21, 2021

Submittal Date  
Jun 9, 2021

*Architect:*  
ARC Architects  
119 S. Main Street  
Seattle WA 98104

*Engineer:*  
TFWB Engineers (Travis Fitzmaurice Wartelle Balangue Engineers, Inc)  
1200 Westlake Ave N  
Seattle WA 98109





# Transmittal

The Lighting Group LLC  
5700 6th Ave South, Ste 215  
Seattle WA 98108  
Phone: (206) 298-9000  
**From: Chris Hamaker**

**Project** Confederated Tribes of Chehalis Indian  
Reservation - Elders Center Project Phase  
**Quote#** LGNW21-81871  
**Location** Oakville Wa  
**To** ARC Architects  
119 S. Main Street  
Suite 200  
Seattle WA 98104  
Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- |                                   |  |        |
|-----------------------------------|--|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications        | Other: |
| <input type="checkbox"/> Prints   | <input type="checkbox"/> Information           |        |
| <input type="checkbox"/> Plans    | <input checked="" type="checkbox"/> Submittals |        |

THESE ARE TRANSMITTED FOR:

- |  |   |                                 |
|--|---|---------------------------------|
| <input checked="" type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval                  | <input type="checkbox"/> Corrections              | Bids due on:                    |
| <input type="checkbox"/> Approval as Submitted     | <input type="checkbox"/> Your Use                 | Other:                          |
| <input type="checkbox"/> Approval as Noted         | <input type="checkbox"/> Review and Comment       |                                 |

Qty	Type	MFG	Part
0			***LIGHTING***
11	B1	Bega Lighting	84 642-K3-STANDARD FINISH
11	B1	Bega Lighting	99 624-STANDARD FINISH
7	P1	Lithonia Lighting	DSX1 LED P5 30K T4M MVOLT RPA DDBXD
		SINGLE HEAD	
7	P1	Lithonia Lighting	RSA 20 5C DM19AS DDBXD
4	P2	Lithonia Lighting	DSX1 LED P5 30K T4M MVOLT RPA DDBXD
		DOUBLE HEAD	
2	P2	Lithonia Lighting	RSA 20 5C DM28AS DDBXD
2	PL-1	Mark Architectural Lighting	S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1 MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL
14	PL-2	Lumenwerx	PCROPD-24-ULO-FH-LED-80-4500-35- VOLT-D1-1-5WAC36-WPC-STANDARD FINISH
		VERIFY LUMEN OUTPUT, CRI, COLOR TEMP, VOLTAGE, POWER CORD COLOR, FINISH	
1	PL-6	Besa Lighting	J-T33XL-VENUS-LED-STANDARD FINISH-L
37	RL-1	Liteline Corporation	LEDP-22-9WH-30-30W-2
6	RL-2-10'	Mark Architectural Lighting	SL2L LOP 10FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT
2	RL-2-6'	Mark Architectural Lighting	SL2L LOP 6FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT
2	RL-2-11'	Mark Architectural Lighting	SL2L LOP 11FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT
2	RL-2-14'	Mark Architectural Lighting	SL2L LOP 14FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT





# Transmittal

The Lighting Group LLC  
 5700 6th Ave South, Ste 215  
 Seattle WA 98108  
 Phone: (206) 298-9000  
**From: Chris Hamaker**

Qty	Type	MFG	Part
10	RL-2-4'	Mark Architectural Lighting	SL2L LOP 4FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT
3	RL-2-8'	Mark Architectural Lighting	SL2L LOP 8FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT
4	RL-2-7'	Mark Architectural Lighting	SL2L LOP 7FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT
8	WL-1	Bega Lighting	33 242-K3-STANDARD FINISH
4	EXIT	Lithonia Lighting	LE S 1/2 G EL N SD





# SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase)

Project: Elders Center Project Substitution Request Number: \_\_\_\_\_  
From: Lighting Group LLC  
To: ARC Architects, Paul Curtis Date: June 9, 2021  
TFWB, Kevin Wartelle A/E Project Number: \_\_\_\_\_  
Re: Lighting prior submittals Contract For: \_\_\_\_\_

Specification Title: Interior, Exterior Lighting Description: Interior, Exterior Lighting  
Section: 265000, 265600 Page: 1-6 Article/Paragraph: 1.1 - 3.3

Proposed Substitution: Attached  
Manufacturer: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_  
Trade Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
Installer: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_

History: ☒ New product ☐ 1-4 years old ☐ 5-10 years old ☐ More than 10 years old

Differences between proposed substitution and specified product:

Proposed is equal or better than the specified product.

☒ Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: Proposed is equal or better than the specified product.

Similar Installation:

Project: N/A Architect: \_\_\_\_\_  
Address: \_\_\_\_\_ Owner: \_\_\_\_\_  
Date Installed: \_\_\_\_\_

Proposed substitution affects other parts of Work: ☒ No ☐ Yes; explain \_\_\_\_\_

Savings to Owner for accepting substitution: N/A (\$ \_\_\_\_\_).

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] \_\_\_\_\_ days.

Supporting Data Attached: ☐ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ \_\_\_\_\_



# SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase — Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: Chris Hamaker

Signed by: Chris Hamaker

Firm: Lighting Group LLC

Address: 5700 6th Ave S

Seattle, Washington 98108

Telephone: 206-298-9000

Attachments: ☒


## A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution rejected - Use specified materials.  
☐ Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

Additional Comments: ☐ Contractor ☐ Subcontractor ☐ Supplier ☐ Manufacturer ☐ A/E  
☐ Other:



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> * * *LIGHTING * * *	<b>Type:</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

\* \* \* LIGHTING \* \* \*



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

84 642-K3-STANDARD FINISH

**Notes:****Type:****B1**

LGNW21-81871

**BEGA LED system bollard - luminaire head with shielded 360° light****BEGA****Application**

BEGA LED system bollard luminaire head with fully shielded light distribution. BEGA LED system bollard heads are designed for easy attachment to system bollard tubes using an interlocking mechanism. An accompanying bollard tube must be selected for proper installation, see list of compatible tube options.

**Materials**

Luminaire housing constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy  
Clear safety glass  
Reflector made of pure anodized aluminum  
High temperature silicone gasket  
Mechanically captive stainless steel fasteners  
Interlocking system constructed of stainless steel

**NRTL** listed to North American Standards, suitable for wet locations

Protection class IP 65

Weight: 5.9 lbs

**Electrical**

Operating voltage	120-277VAC
Minimum start temperature	-30° C
LED module wattage	31.6W
System wattage	34.0W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	4,316 lumens (3000K)
Lifetime at Ta = 15° C	> 500,000 h (L70)
Lifetime at Ta = 45° C	389,000 h (L70)

**LED color temperature**

4000K - Product number + **K4**

3500K - Product number + **K35**

**3000K - Product number + K3**

2700K - Product number + **K27**

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

**Finish**

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:

**Compatible bollard tube (select one)**

<b>99 615</b>	Without components - low
<b>99 622</b>	Without components - high
<b>99 644</b>	1 LED floodlight 19.3W
<b>99 626</b>	GFCI outlet
<b>99 658</b>	Passive infrared motion sensor
<b>99 635</b>	Emergency lighting battery 10W

See individual bollard tube spec sheet for details.

**Bollard head** · 360° light distribution

	LED	A	B
<b>84 642</b>	31.6W	15	1 3/4



**BEGA** 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com  
© copyright BEGA 2018 Updated 01/08/19



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

84 642-K3-STANDARD FINISH

**Type:****B1**

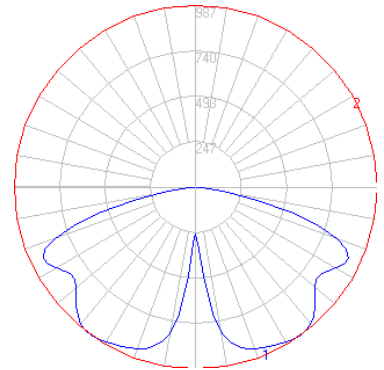
Notes:

LGNW21-81871

# BEGA

Photometric Filename: 84642.ies

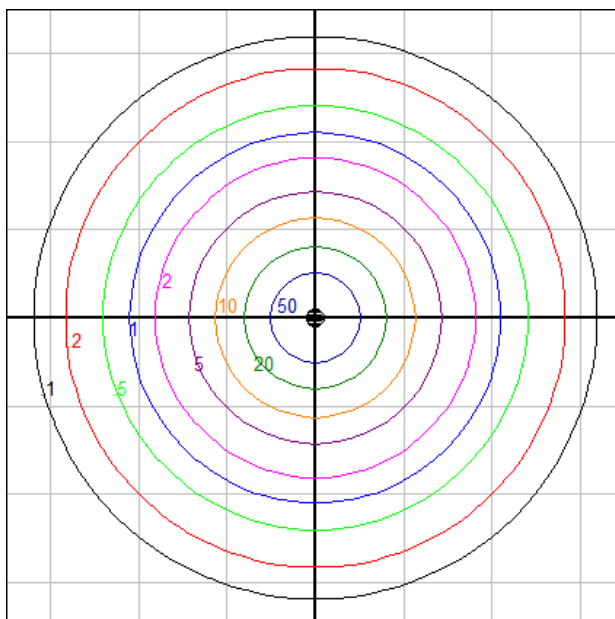
TEST: BE\_84642  
TEST LAB: BEGA  
DATE: 11/23/2016  
LUMINAIRE: 84 642  
LAMP: 31.6W LED

**Characteristics**

IES Classification	Type V
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4314
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	34
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	986.8 (0H, 35V)
Max. Cd. (<90 Vert.)	986.8 (0H, 35V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	179.1 (4.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

**Lum. Classification System (LCS)**

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	376.8	N.A.	8.7
FM (30-60)	1040.2	N.A.	24.1
FH (60-80)	713.1	N.A.	16.5
FVH(80-90)	27.2	N.A.	0.6
BL (0-30)	376.8	N.A.	8.7
BM (30-60)	1040.2	N.A.	24.1
BH (60-80)	713.1	N.A.	16.5
BVH(80-90)	27.2	N.A.	0.6
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	4314.6	N.A.	100.0
<b>BUG Rating</b>	<b>B2-U0-G1</b>		



Mounting Height = 2.7 ft.

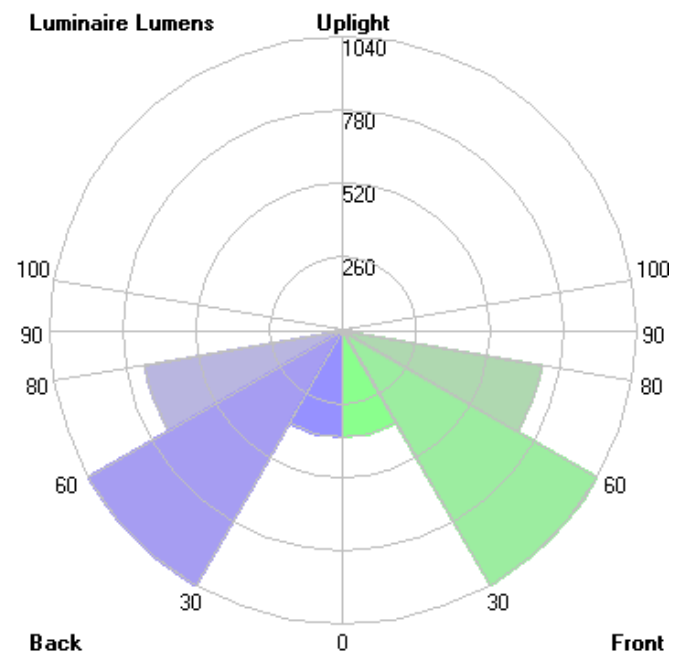
Grid Spacing = 5 ft.

\*Using 99 622 system bollard tube

In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA 1000 Bega Way, Carpinteria, CA 93013 (805)684-0533 Fax (805)566-9474 www.bega-us.com © Copyright BEGA-US 2018


2/15/2018

**Luminaire Lumens**

Back

Front



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> 99 624-STANDARD FINISH	<b>Type:</b>  <b>B1</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

BEGA LED system bollard - bollard tube for luminaire height 43 1/4

**Post construction:** One piece extruded aluminum, 3/16" wall thickness with a one peice base, internally welded into an assembly. Provided with access door. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy. Designed to accept BEGA LED system bollard heads of 10 3/8" in diameter.

**Anchor base:** Heavy cast aluminum, slotted for precise alignment. Mounts to BEGA 79 818 anchorage kit. Bollard secures to base with one stainless steel set screw. The mounting system allows the luminaire to be adjusted independent of anchor bolt orientation.

**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

**Note:** See below for compatible LED system bollard heads. See specifications for details.

**CSA** certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

**Weight:** 24.5 lbs.

Type:  
 BEGA Product:  
 Project:  
 Voltage:  
 Color:  
 Options:  
 Modified:



Bollard tubes for luminaire heights 31 1/2 · 39 1/4 · 43 1/4

	Door	A	B	Anch. unit
99 624	✓	10 3/8	34 1/2	79 818





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

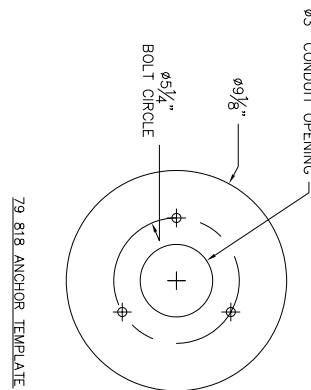
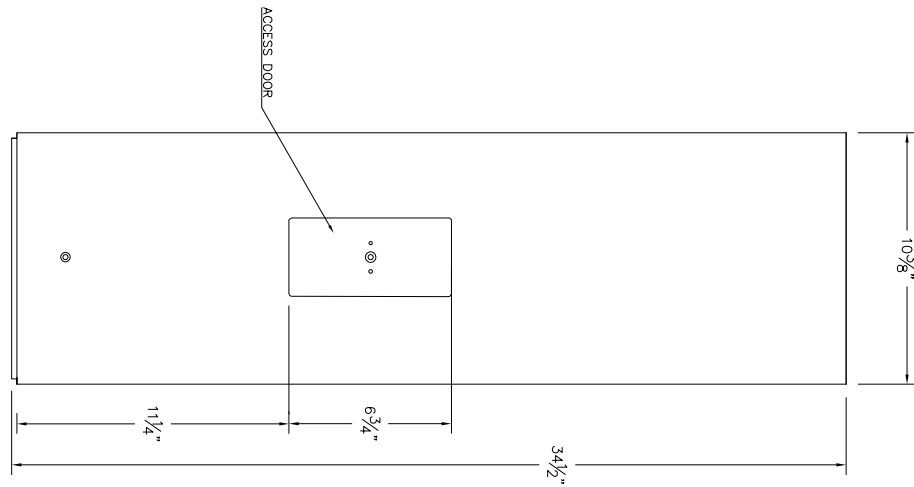
**Catalog Number:**

99 624-STANDARD FINISH

Notes:

**Type:****B1**

LGNW21-81871



NOTE: SYSTEM BOLLARD TUBE # 99 624- SEE SPECIFICATIONS

**TYPE:** \_\_\_\_\_**SUBMITTAL APPROVAL**

APPROVED BY: \_\_\_\_\_

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

CAT NO.: LUMINARE# 99624

PROJECT: -

LOCATION: -

DRAWN: XX DATE: 10/24/2018 FILE NAME: 99624.DXF

**BEGA**

1000 Bega Way  
Carpinteria, Ca. 93013  
(805) 684-0533

REV.	DATE	DESCRIPTION

This print contains confidential information which is the property of BEGA U.S. By acceptance this information, the borrower agrees that it will not be used for any other purpose other than that which is was loaned.



**Job Name:**

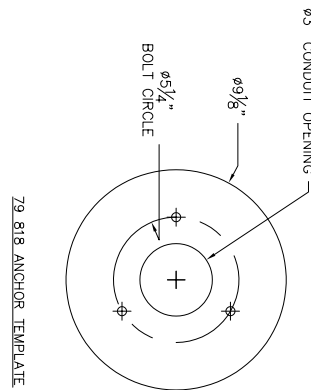
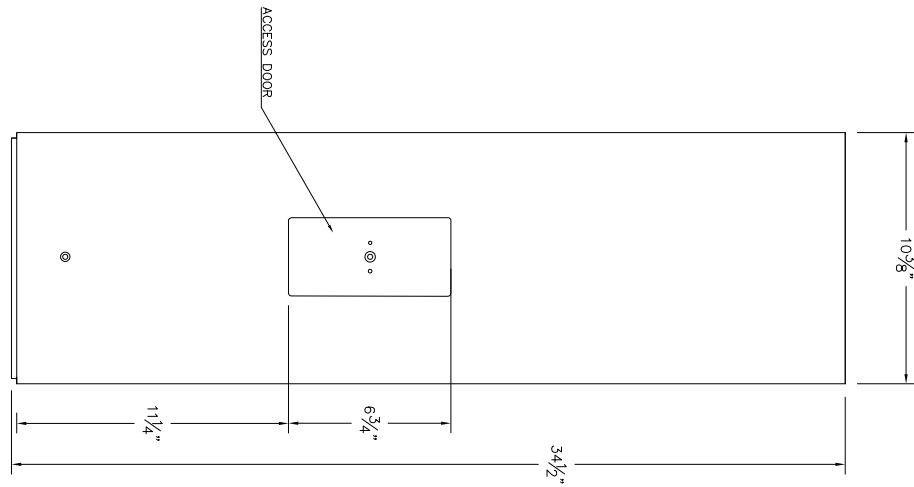
Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

99 624-STANDARD FINISH

**Notes:****Type:****B1**

LGNW21-81871



NOTE: SYSTEM BOLLARD TUBE # 99 624-- SEE SPECIFICATIONS

**TYPE:** \_\_\_\_\_**SUBMITTAL APPROVAL**

APPROVED BY: \_\_\_\_\_

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

CAT NO.: LUMINARE# 99624

PROJECT: -

LOCATION: -

DRAWN: XX DATE: 10/24/2018 FILE NAME: 99624.DXF


**BEGA**

1000 Bega Way  
Carpinteria, Ca. 93013  
(805) 684-0533

REV.	DATE	DESCRIPTION

This print contains confidential information which is the property of BEGA U.S. By acceptance this information, the borrower agrees that it will not be used for any other purpose other than that which it was loaned.



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> DSX1 LED P5 30K T4M MVOLT RPA DDBXD Notes:	<b>Type:</b>  <b>P1</b>  LGNW21-81871
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)		



## D-Series Size 1 LED Area Luminaire

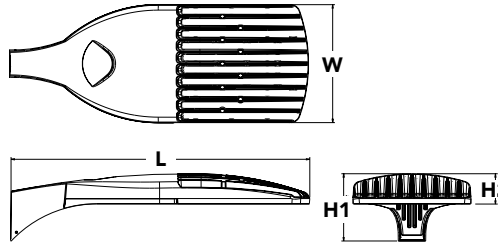


Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Specifications

<b>EPA:</b>	1.01 ft <sup>2</sup> (0.09 m <sup>2</sup> )
<b>Length:</b>	33" (83.8 cm)
<b>Width:</b>	13" (33.0 cm)
<b>Height H1:</b>	7-1/2" (19.0 cm)
<b>Height H2:</b>	3-1/2"
<b>Weight (max):</b>	27 lbs (12.2 kg)



### Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

### Ordering Information

**EXAMPLE:** DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED						
Series	LEDs	Color temperature	Distribution		Voltage	Mounting
DSX1 LED	<b>Forward optics</b> P1 P4 <sup>1</sup> P7 <sup>1</sup> P2 P5 <sup>1</sup> P8 P3 P6 <sup>1</sup> P9 <sup>1</sup> <b>Rotated optics</b> P10 <sup>2</sup> P12 <sup>2</sup> P11 <sup>2</sup> P13 <sup>1,2</sup>	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium	TSVS Type V very short <sup>3</sup> T5S Type V short <sup>3</sup> T5M Type V medium <sup>3</sup> TSW Type V wide <sup>3</sup> BLC Backlight control <sup>4</sup> LCCO Left corner cutoff <sup>4</sup> RCCO Right corner cutoff <sup>4</sup>	MVOLT <sup>5</sup> XVOLT (277V-480V) <sup>6,7,8</sup> 120 <sup>9</sup> 208 <sup>9</sup> 240 <sup>9</sup> 277 <sup>9</sup> 347 <sup>9</sup> 480 <sup>9</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting <sup>10</sup> WBA Wall bracket <sup>3</sup> SPUMBA Square pole universal mounting adaptor <sup>11</sup> RPUMBA Round pole universal mounting adaptor <sup>9</sup> <b>Shipped separately</b> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>12</sup>

Control options	Other options	Finish (required)
<b>Shipped installed</b> NLTAIR2 nLight AIR generation 2 enabled <sup>13</sup> PIRHN Network, high/low motion/ambient sensor <sup>14</sup> PER NEMA twist-lock receptacle only (controls ordered separate) <sup>15</sup> PER5 Five-pin receptacle only (controls ordered separate) <sup>15,16</sup> PER7 Seven-pin receptacle only (controls ordered separate) <sup>15,16</sup> DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>17</sup> DS Dual switching <sup>18,19,20</sup>	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>20,21</sup> PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>20,21</sup> PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>20,21</sup> PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>20,21</sup> FAO Field adjustable output <sup>20,21</sup>	<b>DDBXD Dark bronze</b> DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white
	<b>Shipped installed</b> HS House-side shield <sup>23</sup> SF Single fuse (120, 277, 347V) <sup>9</sup> DF Double fuse (208, 240, 480V) <sup>9</sup> L90 Left rotated optics <sup>2</sup> R90 Right rotated optics <sup>2</sup> HA 50°C ambient operations <sup>1</sup> BAA Buy America(n) Act Compliant <b>Shipped separately</b> BS Bird spikes <sup>24</sup> EGS External glare shield	



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

DSX1 LED P5 30K T4M MVOLT RPA  
DDBXD

Notes:

**Type:****P1**

LGNW21-81871

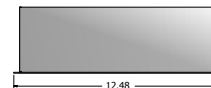
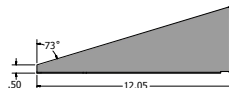
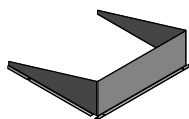
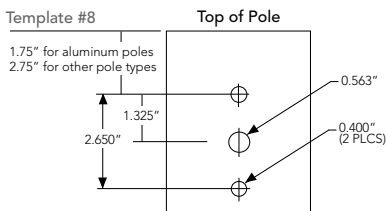
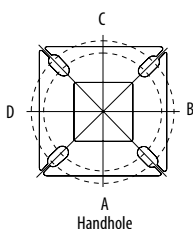
**Ordering Information****Accessories**

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>25</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>25</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>25</sup>
DSHORT SBK U	Shorting cap <sup>25</sup>
DSK1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 <sup>23</sup>
DSK1HS 40C U	House-side shield for P6 and P7 <sup>23</sup>
DSK1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 <sup>23</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) <sup>26</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>12</sup>
DSK1EGS (FINISH) U	External glare shield

For more control options, visit [DTL](#) and [ROAM](#) online.**NOTES**

- HA not available with P4, P5, P6, P7, P9 and P13.
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- XVOLT only suitable for use with P3, P5, P6, P7, P9 and P13.
- XVOLT works with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with PIRH.N. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NITAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRH.N, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral.
- Reference Controls Option Default settings table on page 4.
- Reference Motion Sensor table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Control Option Table on page 4.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

**Options****EGS - External Glare Shield****Drilling****HANDHOLE ORIENTATION****Tenon Mounting Slipfitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

**DSX1 Area Luminaire - EPA**

\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 LED	1.013	2.025	1.945	3.038	2.850	3.749

	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

DSX1 LED P5 30K T4M MVOLT RPA  
DDBXD

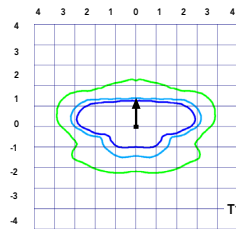
Notes:

**Type:****P1**

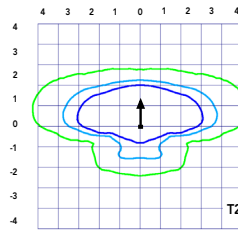
LGNW21-81871

**Photometric Diagrams**To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

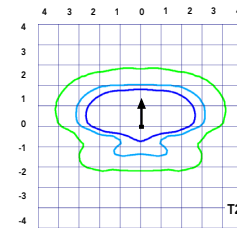
Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

**LEGEND**

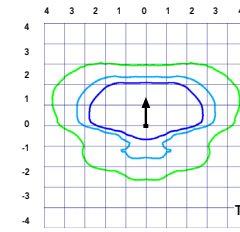
Test No. LT12321 tested in accordance with IESNA LM-79-08.



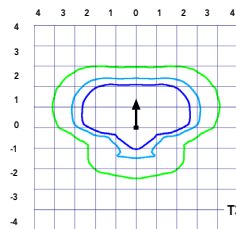
Test No. LT123164B tested in accordance with IESNA LM-79-08.



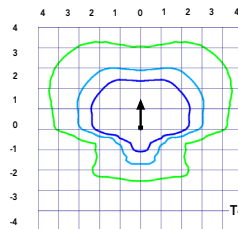
Test No. LT123222 tested in accordance with IESNA LM-79-08.



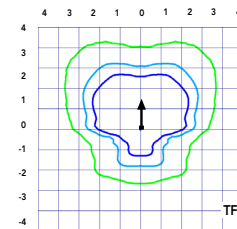
Test No. LT123271 tested in accordance with IESNA LM-79-08.



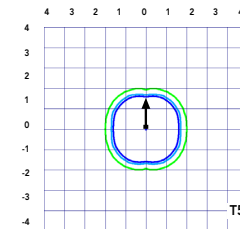
Test No. LT12321 tested in accordance with IESNA LM-79-08.



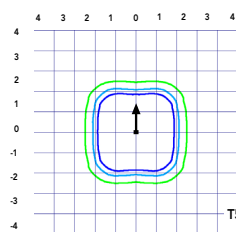
Test No. LT123164B tested in accordance with IESNA LM-79-08.



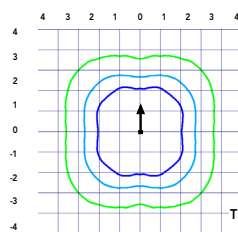
Test No. LT123222 tested in accordance with IESNA LM-79-08.



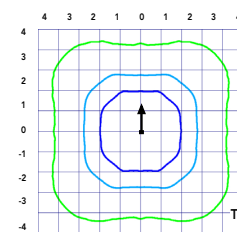
Test No. LT123271 tested in accordance with IESNA LM-79-08.



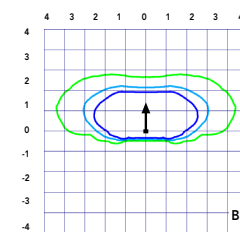
Test No. LT12321 tested in accordance with IESNA LM-79-08.



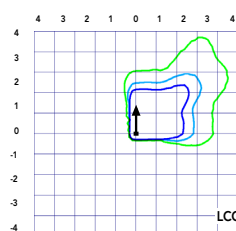
Test No. LT123164B tested in accordance with IESNA LM-79-08.



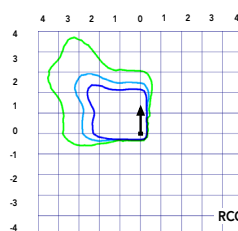
Test No. LT123222 tested in accordance with IESNA LM-79-08.



Test No. LT123271 tested in accordance with IESNA LM-79-08.



Test No. LT12321 tested in accordance with IESNA LM-79-08.



Test No. LT123164B tested in accordance with IESNA LM-79-08.



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

#### Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*for use when motion sensor is used as dusk to dawn control.


### Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

#### Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> DSX1 LED P5 30K T4M MVOLT RPA DDBXD	<b>Type:</b>  <b>P1</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999
T2S	8,240	2	0					2	118	8,877	2	0	2	127	8,989	2	0	2	128
T2M	8,283	2	0					2	118	8,923	2	0	2	127	9,036	2	0	2	129
T3S	8,021	2	0					2	115	8,641	2	0	2	123	8,751	2	0	2	125
T3M	8,263	2	0					2	118	8,901	2	0	2	127	9,014	2	0	2	129
T4M	8,083	2	0					2	115	8,708	2	0	2	124	8,818	2	0	2	126
TFTM	8,257	2	0					2	118	8,896	2	0	2	127	9,008	2	0	2	129
TSVS	8,588	3	0					0	123	9,252	3	0	0	132	9,369	3	0	0	134
TSS	8,595	3	0					1	123	9,259	3	0	1	132	9,376	3	0	1	134
TSM	8,573	3	0					2	122	9,236	3	0	2	132	9,353	3	0	2	134
TSW	8,517	3	0					2	122	9,175	4	0	2	131	9,291	4	0	2	133
BLC	6,770	1	0					2	97	7,293	1	0	2	104	7,386	1	0	2	106
LCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79
RCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	P3	102W					T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657
T2S	13,421	3	0					3	107	14,458	3	0	3	116	14,641	3	0	3	117
T2M	13,490	2	0					2	108	14,532	3	0	3	116	14,716	3	0	3	118
T3S	13,064	3	0					3	105	14,074	3	0	3	113	14,252	3	0	3	114
T3M	13,457	2	0					2	108	14,497	2	0	2	116	14,681	2	0	2	117
T4M	13,165	2	0					3	105	14,182	2	0	3	113	14,362	2	0	3	115
TFTM	13,449	2	0					3	108	14,488	2	0	3	116	14,672	2	0	3	117
TSVS	13,987	4	0					1	112	15,068	4	0	1	121	15,259	4	0	1	122
TSS	13,999	3	0					1	112	15,080	3	0	1	121	15,271	3	0	1	122
TSM	13,963	4	0					2	112	15,042	4	0	2	120	15,233	4	0	2	122
TSW	13,872	4	0					3	111	14,944	4	0	3	120	15,133	4	0	3	121
BLC	11,027	1	0					2	88	11,879	1	0	2	95	12,029	1	0	2	96
LCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72
RCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	P5	138W					T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71



## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				TSS	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975
T2S	19,206	3	0					3	105	20,690	3	0	3	113	20,952	3	0	3	114
T2M	19,305	3	0					3	105	20,797	3	0	3	114	21,060	3	0	3	115
T3S	18,696	3	0					3	102	20,141	3	0	3	110	20,396	3	0	4	111
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112
TFTM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119
TSS	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119
TSM	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119
TSW	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				TSS	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900
T2S	25,548	3	0					4	106	27,522	3	0	4	114	27,871	3	0	4	116
T2M	25,680	3	0					3	107	27,664	3	0	3	115	28,014	3	0	3	116
T3S	24,870	3	0					4	103	26,791	3	0	4	111	27,130	3	0	4	113
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113
TFTM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121
TSS	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121
TSM	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120
TSW	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71
RCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

DSX1 LED P5 30K T4M MVOLT RPA  
DDBXD

Notes:

**Type:****P1**


LGNW21-81871

**Performance Data****Lumen Output**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
				60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061
T2S	16,461	4	0					4	120	17,733	4	0	4	129	17,957	4	0	4	131
T2M	16,758	4	0					4	122	18,053	4	0	4	132	18,281	4	0	4	133
T3S	16,205	4	0					4	118	17,457	4	0	4	127	17,678	4	0	4	129
T3M	16,748	4	0					4	122	18,042	4	0	4	132	18,271	4	0	4	133
T4M	16,432	4	0					4	120	17,702	4	0	4	129	17,926	4	0	4	131
TFTM	16,857	4	0					4	123	18,159	4	0	4	133	18,389	4	0	4	134
TSVS	16,975	4	0					1	124	18,287	4	0	1	133	18,518	4	0	1	135
TSS	16,832	4	0					1	123	18,133	4	0	2	132	18,362	4	0	2	134
TSM	16,828	4	0					2	123	18,128	4	0	2	132	18,358	4	0	2	134
TSW	16,677	4	0					3	122	17,966	5	0	3	131	18,193	5	0	3	133
BLC	13,845	3	0					3	101	14,915	3	0	3	109	15,103	3	0	3	110
LCCO	9,888	1	0					3	72	10,652	2	0	3	78	10,787	2	0	3	79
RCCO	9,875	4	0					4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	P12	207W					T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
				60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709
T2S	25,254	5	0					5	109	27,205	5	0	5	118	27,550	5	0	5	119
T2M	25,710	4	0					4	111	27,696	4	0	4	120	28,047	4	0	4	121
T3S	24,862	5	0					5	108	26,783	5	0	5	116	27,122	5	0	5	117
T3M	25,695	5	0					5	111	27,680	5	0	5	120	28,031	5	0	5	121
T4M	25,210	5	0					5	109	27,158	5	0	5	118	27,502	5	0	5	119
TFTM	25,861	5	0					5	112	27,860	5	0	5	121	28,212	5	0	5	122
TSVS	26,043	5	0					1	113	28,056	5	0	1	121	28,411	5	0	1	123
TSS	25,824	4	0					2	112	27,819	5	0	2	120	28,172	5	0	2	122
TSM	25,818	5	0					3	112	27,813	5	0	3	120	28,165	5	0	3	122
TSW	25,586	5	0					4	111	27,563	5	0	4	119	27,912	5	0	4	121
BLC	21,241	4	0					4	92	22,882	4	0	4	99	23,172	4	0	4	100
LCCO	15,170	2	0					4	66	16,342	2	0	4	71	16,549	2	0	4	72
RCCO	15,150	5	0					5	66	16,321	5	0	5	71	16,527	5	0	5	72



Submitted by The Lighting Group LLCChris Hamaker  <b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Catalog Number:</b> DSX1 LED P5 30K T4M MVOLT RPA DDBXD Notes:	<b>Type:</b> P1 LGNW21-81871
---	--	------------------------------------

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>3</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

### nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### WARRANTY


5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



Submitted by The Lighting Group LLCChris Hamaker <div data-bbox="196 78 341 180">  </div> <div data-bbox="459 78 837 169"> <b>Job Name:</b>  Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase  Architect: ARC Architects (Seattle)  Engineer: TFWB Engineers (Travis Fitzmaurice) </div>	<b>Catalog Number:</b> RSA 20 5C DM19AS DDBXD  <b>Notes:</b>	<b>Type:</b>  <div data-bbox="1414 91 1468 136">P1</div> <div data-bbox="1330 161 1445 180">LGNW21-81871</div>
---	---	--



## FEATURES & SPECIFICATIONS

**INTENDED USE** — These specifications are for USA standards only. Round Straight Aluminum is a general purpose light pole for up to 30-foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

**CONSTRUCTION** — **Pole Shaft:** The pole shaft is of uniform wall thickness and is one-piece extruded 6063 aluminum alloy with T6 temper. The shaft is uniform in cross-section down length of pole with no taper. Available shaft diameters are 4", 4.5" 5", and 6".

**Pole Top:** Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable aluminum top cap secured with three stainless-steel screws. The top cap resists intrusion of moisture or environmental contaminants.

**Handhole:** A non-reinforced handhole with grounding provision is provided near the base. Standard positioning varies with shaft width as follows: 4", 4.5", and 5" shaft, handhole at 12"; 6" shaft, handhole at 18" on side A. Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. All handholes for a pole specified with openings wfor 4" through 6" shaft width has nominal dimension of 2" x 4" with surface mount overlap design.

**Bolt Caps/Base Cover:** Pole base plate utilizes cast aluminum bolt caps to cover anchor bolt and nut assembly. Spun aluminum covers available as an option.

**Anchor Base/Bolts:** Anchor base is cast from 356 alloy aluminum and is heat treated to a T6 temper after welding. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end. Each hot-dipped galvanized anchor bolt is furnished with two hex nuts and two flat washers.

**HARDWARE** – All structural and non-structural fasteners are stainless-steel.

**FINISH** – Extra durable painted finish is coated with polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**NOTE:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number
Notes
Type


Anchor Base Poles

# RSA

ROUND STRAIGHT ALUMINUM





Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> RSA 20 5C DM19AS DDBXD	<b>Type:</b>  <b>P1</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

## RSA Round Straight Aluminum Poles

ORDERING INFORMATION		Lead times will vary depending on options selected. Consult with your sales representative.			Example: RSA 16 4-5C DM19 BA
RSA	20				
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness <sup>1</sup>	Mounting <sup>1</sup>	Options	Finish <sup>10</sup>
RSA	8'-30' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.)  (See technical information table for complete ordering information.)	4C 4" (.125") 4-5C 4 1/2" (.125") 4-5G 4 1/2" (.188") <b>5C 5" (.125")</b> 5E 5" (.156") 5G 5" (.188") 6E 6" (.156") 6G 6" (.188")  (See technical information table for complete ordering information.)	<u>Tenon mounting</u> PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) <sup>2</sup> T35 4" O.D. (3-1/2" NPS) <sup>2</sup> <u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting<sup>3</sup></u> DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM32 3 at 120° DM39 3 at 90° DM49 4 at 90°  <u>CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting<sup>3</sup></u> <b>DM19AS 1 at 90°</b> DM28AS 2 at 180° DM29AS 2 at 90° DM32AS 3 at 120° DM39AS 3 at 90° DM49AS 4 at 90°  <u>RAD drill mounting<sup>3</sup></u> DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90°  <u>ESX Drill mounting<sup>3</sup></u> DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°  <u>AERIS™ Suspend drill mounting<sup>3,4</sup></u> DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90°  <u>OMERO™ Suspend drill mounting<sup>3,4</sup></u> DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	<u>Shipped installed</u> L/AB Less anchor bolts (Include when anchor bolts are not needed) VD Vibration damper TP Tamper resistant handhole cover fasteners HAXy Horizontal arm bracket (1 fixture) <sup>5,6</sup> FDLxy Festoon outlet less electrical <sup>5</sup> CPL12/xy 1/2" coupling <sup>5</sup> CPL34/xy 3/4" coupling <sup>5</sup> CPL1/xy 1" coupling <sup>5</sup> NPL12/xy 1/2" threaded nipple <sup>5</sup> NPL34/xy 3/4" threaded nipple <sup>5</sup> NPL1/xy 1" threaded nipple <sup>5</sup> EHHxy Extra handhole <sup>5,7</sup> MAEX Match existing <sup>8</sup> USPOM United States point of manufacture <sup>9</sup> UL UL listed with label (Includes NEC compliant cover) NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled)  <u>Shipped separately (replacement kit available)</u> (blank) BLTC Bolt caps FBC Full base cover (spun aluminum) (blank) TC Top cap (with drill-mount poles) (blank) HHC Handhole cover	<u>Standard colors</u> <b>DDBXD Dark bronze</b> DWH White DBLXD Black DMB Medium bronze DNA Natural aluminum BA Brushed aluminum  <u>Classic colors</u> DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue  <u>Class 1 architectural anodized</u> ABL Black ADB Dark bronze ANA Natural  <u>Architectural Colors and Special Finishes<sup>10</sup></u> Duranodic Anodize, Paint over Duranodic Anodize, RAL Colors, Custom Colors and Extended Warranty Finishes available.


### NOTES:

- Wall thickness will be signified with a "C", "E" or a "G" in nomenclature. "C" - 0.125 | "E" - 0.156 | "G" - 0.188.
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option.  
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".  
Example: 5ft = 5 and 20ft 3in = 20-3  
For "y": Specify orientation from handhole  
(A,B,C,D) Refer to the Handhole Orientation diagram below.  
Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise. If ordering two horizontal arm at the same height, specify with HAXxy. Example: HA20B0
- Combination of tenon-top and drill mount includes extra handhole.
- Must add original order number of existing pole(s).
- Use when mill certifications are required.
- Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.



POLE-RSA



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> RSA 20 5C DM19AS DDBXD	<b>Type:</b>  <b>P1</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Notes:</b>	LGNW21-81871

## RSA Round Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust									
Catalog number	Nominal mount ht. (ft) *	Pole shaft size (in x ft)	Wall thick (in)	EPA (ft²) with 1.3 gust			Max. weight (lbs)	Bolt size (in. x in. x in.)	Approximate ship (lbs.)
				80 mph	90 mph	100 mph			
RSA 8 4C	8	4 x 8	0.125	11.2	8.6	6.8	125	3/4 x 18 x 3	22
RSA 8 4-5C	8	4-1/2 x 8	0.125	14.6	11.3	9.1	175	3/4 x 18 x 3	30
RSA 8 4-5G	8	4-1/2 x 8	0.188	21.8	17	13.7	225	3/4 x 18 x 3	38
RSA 10 4C	10	4 x 10	0.125	8.2	6.1	4.7	100	3/4 x 18 x 3	26
RSA 10 4-5C	10	4-1/2 x 10	0.125	10.6	8.1	6.5	133	3/4 x 18 x 3	34
RSA 10 4-5G	10	4-1/2 x 10	0.188	16.3	12.6	10.1	175	3/4 x 18 x 3	43
RSA 10 5C	10	5 x 10	0.125	13.6	10.6	8.5	150	3/4 x 18 x 3	36
RSA 12 4C	12	4 x 12	0.125	6	4.3	3.2	110	3/4 x 18 x 3	30
RSA 12 4-5C	12	4-1/2 x 12	0.125	8.1	6	4.8	80	3/4 x 18 x 3	38
RSA 12 4-5G	12	4-1/2 x 12	0.188	12.7	9.7	7.7	185	3/4 x 18 x 3	50
RSA 12 5C	12	5 x 12	0.125	10.3	8	6.3	150	3/4 x 18 x 3	36
RSA 12 5E	12	5 x 12	0.156	13.2	10.3	8.2	200	3/4 x 18 x 3	44
RSA 12 5G	12	5 x 12	0.188	16.2	12.6	10.1	225	3/4 x 18 x 3	53
RSA 14 4C	14	4 x 14	0.125	4.1	2.8	1.9	75	3/4 x 18 x 3	35
RSA 14 4-5C	14	4-1/2 x 14	0.125	5.8	4.2	3.3	60	3/4 x 18 x 3	39
RSA 14 4-5G	14	4-1/2 x 14	0.188	9.7	7.3	5.8	190	3/4 x 18 x 3	56
RSA 14 5C	14	5 x 14	0.125	7.8	6	4.7	100	3/4 x 18 x 3	42
RSA 14 5E	14	5 x 14	0.156	10.3	8	6.3	125	3/4 x 18 x 3	47
RSA 14 5G	14	5 x 14	0.188	12.8	9.9	7.9	150	3/4 x 18 x 3	56
RSA 16 4C	16	4 x 16	0.125	2.8	1.6	1	150	3/4 x 18 x 3	38
RSA 16 4-5C	16	4-1/2 x 16	0.125	3.3	2.2	1.6	100	3/4 x 18 x 3	46
RSA 16 4-5G	16	4-1/2 x 16	0.188	7.5	5.5	4.3	155	3/4 x 18 x 3	62
RSA 16 5C	16	5 x 16	0.125	5.9	4.4	3.4	175	3/4 x 18 x 3	46
RSA 16 5E	16	5 x 16	0.156	8	6.1	4.8	190	3/4 x 18 x 3	53
RSA 16 5G	16	5 x 16	0.188	10.1	7.8	6.1	200	3/4 x 18 x 3	60
RSA 16 6E	16	6 x 16	0.156	13.6	10.6	8.4	225	3/4 x 30 x 3	53
RSA 16 6G	16	6 x 16	0.188	16.8	13	10.4	245	3/4 x 30 x 3	78
RSA 18 5G	18	5 x 18	0.188	8	6.8	4.7	225	3/4 x 18 x 3	68
RSA 18 5C	18	5 x 18	0.125	4.3	3.1	2.4	150	3/4 x 18 x 3	48
RSA 18 5E	18	5 x 18	0.156	6.1	4.6	3.5	175	3/4 x 18 x 3	58
RSA 18 4-5G	18	4-1/2 x 18	0.188	5.7	4	3.1	123	3/4 x 18 x 3	68
RSA 18 6G	18	6 x 18	0.188	13.9	10.7	8.5	225	3/4 x 30 x 3	86
RSA 20 4-5G	20	4-1/2 x 20	0.188	4.3	2.9	2.1	95	3/4 x 18 x 3	74
RSA 20 5C	20	5 x 20	0.125	3	2.1	1.5	150	3/4 x 18 x 3	54
RSA 20 5E	20	5 x 20	0.156	4.7	3.4	2.6	150	3/4 x 18 x 3	68
RSA 20 5G	20	5 x 20	0.188	6.4	4.8	3.6	150	3/4 x 18 x 3	82
RSA 20 6E	20	6 x 20	0.156	9.3	7.1	5.5	175	3/4 x 30 x 3	95
RSA 20 6G	20	6 x 20	0.188	11.8	9.1	7.1	200	3/4 x 30 x 3	110
RSA 25 4-5G	25	4-1/2 x 25	0.188	1.3	--	--	100	3/4 x 18 x 3	89
RSA 25 6E	25	6 x 25	0.156	5.2	3.8	2.8	150	3/4 x 30 x 3	108
RSA 25 6G	25	6 x 25	0.188	7.1	5.3	4	150	3/4 x 30 x 3	128
RSA 30 6G	30	6 x 30	0.188	3.5	2.4	1.6	200	3/4 x 30 x 3	146

\* TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

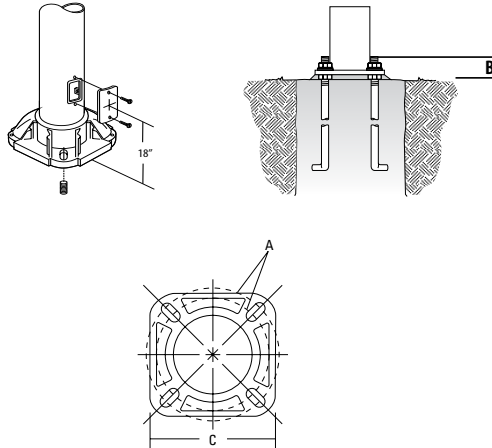
**Catalog Number:**

RSA 20 5C DM19AS DDBXD

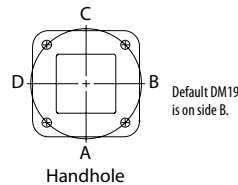
Notes:

**Type:****P1**

LGNW21-81871


**RSA Round Straight Aluminum Poles****BASE DETAIL****POLE DATA**

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description
4"	6.75" - 8.00"	3.25"	8.91"	ABTEMPLATE PJ50057	AB18-0
4.5"	7.06" - 8.62"	3.25"	9.26"	ABTEMPLATE PJ50040	AB18-0
5"	7.75" - 8.00"	3.25"	9.61"	ABTEMPLATE PJ50058	AB18-0
6"	9.00"-10.00"	3.50"	10.32"	ABTEMPLATE PJ50059	AB30-0

**HANDHOLE ORIENTATION****IMPORTANT INSTALLATION NOTES:**

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> DSX1 LED P5 30K T4M MVOLT RPA DDBXD Notes:	<b>Type:</b>  <b>P2</b>  LGNW21-81871
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)		



## D-Series Size 1 LED Area Luminaire

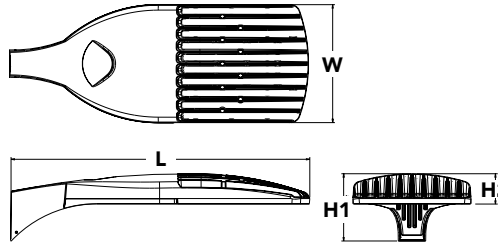


Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Specifications

<b>EPA:</b>	1.01 ft <sup>2</sup> (0.09 m <sup>2</sup> )
<b>Length:</b>	33" (83.8 cm)
<b>Width:</b>	13" (33.0 cm)
<b>Height H1:</b>	7-1/2" (19.0 cm)
<b>Height H2:</b>	3-1/2"
<b>Weight (max):</b>	27 lbs (12.2 kg)



### Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

### Ordering Information

**EXAMPLE:** DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED						
Series	LEDs	Color temperature	Distribution		Voltage	Mounting
DSX1 LED	<b>Forward optics</b> P1 P4 <sup>1</sup> P7 <sup>1</sup> P2 P5 <sup>1</sup> P8 P3 P6 <sup>1</sup> P9 <sup>1</sup> <b>Rotated optics</b> P10 <sup>2</sup> P12 <sup>2</sup> P11 <sup>2</sup> P13 <sup>1,2</sup>	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium	TSVS Type V very short <sup>3</sup> T5S Type V short <sup>3</sup> T5M Type V medium <sup>3</sup> TSW Type V wide <sup>3</sup> BLC Backlight control <sup>4</sup> LCCO Left corner cutoff <sup>4</sup> RCCO Right corner cutoff <sup>4</sup>	MVOLT <sup>5</sup> XVOLT (277V-480V) <sup>6,7,8</sup> 120 <sup>9</sup> 208 <sup>9</sup> 240 <sup>9</sup> 277 <sup>9</sup> 347 <sup>9</sup> 480 <sup>9</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting <sup>10</sup> WBA Wall bracket <sup>3</sup> SPUMBA Square pole universal mounting adaptor <sup>11</sup> RPUMBA Round pole universal mounting adaptor <sup>9</sup> <b>Shipped separately</b> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>12</sup>

Control options	Other options	Finish (required)
<b>Shipped installed</b> NLTAIR2 nLight AIR generation 2 enabled <sup>13</sup> PIRHN Network, high/low motion/ambient sensor <sup>14</sup> PER NEMA twist-lock receptacle only (controls ordered separate) <sup>15</sup> PER5 Five-pin receptacle only (controls ordered separate) <sup>15,16</sup> PER7 Seven-pin receptacle only (controls ordered separate) <sup>15,16</sup> DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>17</sup> DS Dual switching <sup>18,19,20</sup>	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>20,21</sup> PIRHH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>20,21</sup> PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>20,21</sup> PIRHH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>20,21</sup> FAO Field adjustable output <sup>20,21</sup>	<b>DDBXD Dark bronze</b> DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white
	<b>Shipped installed</b> HS House-side shield <sup>23</sup> SF Single fuse (120, 277, 347V) <sup>9</sup> DF Double fuse (208, 240, 480V) <sup>9</sup> L90 Left rotated optics <sup>2</sup> R90 Right rotated optics <sup>2</sup> HA 50°C ambient operations <sup>1</sup> BAA Buy America(n) Act Compliant <b>Shipped separately</b> BS Bird spikes <sup>24</sup> EGS External glare shield	



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

DSX1 LED P5 30K T4M MVOLT RPA  
DDBXD

Notes:

**Type:****P2**

LGNW21-81871

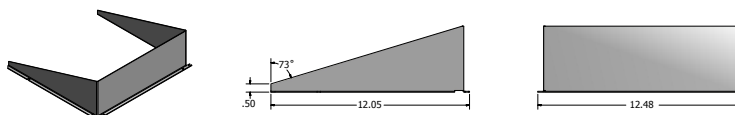
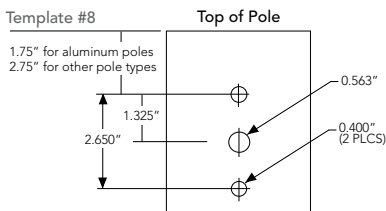
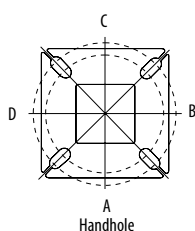
**Ordering Information****Accessories**

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>25</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>25</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>25</sup>
DSHORT SBK U	Shorting cap <sup>25</sup>
DSK1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 <sup>23</sup>
DSK1HS 40C U	House-side shield for P6 and P7 <sup>23</sup>
DSK1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 <sup>23</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) <sup>26</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>12</sup>
DSK1EGS (FINISH) U	External glare shield

For more control options, visit [DTL](#) and [ROAM](#) online.**NOTES**

- HA not available with P4, P5, P6, P7, P9 and P13.
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- XVOLT only suitable for use with P3, P5, P6, P7, P9 and P13.
- XVOLT works with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with PIRHIN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NITAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHIN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral.
- Reference Controls Option Default settings table on page 4.
- Reference Motion Sensor table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Control Option Table on page 4.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

**Options****EGS - External Glare Shield****Drilling****HANDHOLE ORIENTATION****Tenon Mounting Slipfitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

**DSX1 Area Luminaire - EPA**

\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 LED	1.013	2.025	1.945	3.038	2.850	3.749

	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

DSX1 LED P5 30K T4M MVOLT RPA  
DDBXD

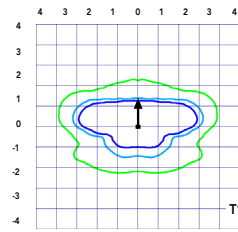
Notes:

**Type:****P2**

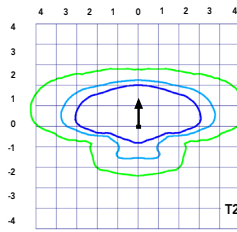
LGNW21-81871

**Photometric Diagrams**To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

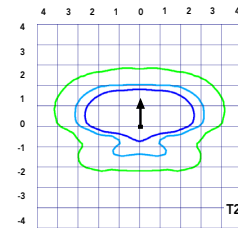
Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

**LEGEND**

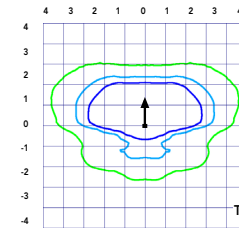
Test No. LT12321 tested in accordance with IESNA LM-79-08.



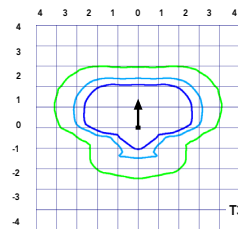
Test No. LT123164B tested in accordance with IESNA LM-79-08.



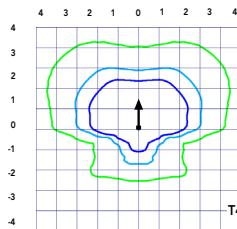
Test No. LT123222 tested in accordance with IESNA LM-79-08.



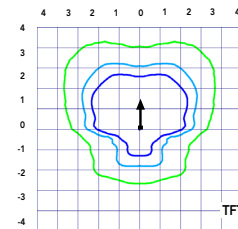
Test No. LT123271 tested in accordance with IESNA LM-79-08.



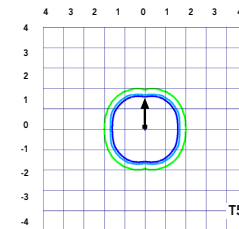
Test No. LT12321 tested in accordance with IESNA LM-79-08.



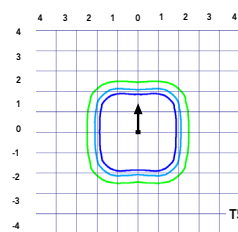
Test No. LT123164B tested in accordance with IESNA LM-79-08.



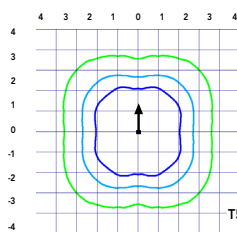
Test No. LT123222 tested in accordance with IESNA LM-79-08.



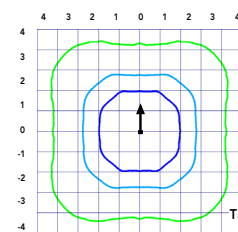
Test No. LT123271 tested in accordance with IESNA LM-79-08.



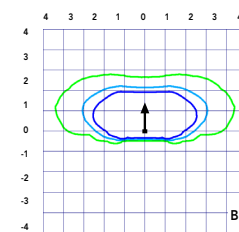
Test No. LT12321 tested in accordance with IESNA LM-79-08.



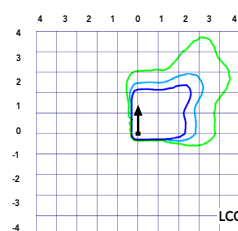
Test No. LT123164B tested in accordance with IESNA LM-79-08.



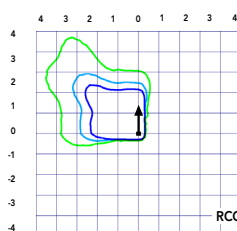
Test No. LT123222 tested in accordance with IESNA LM-79-08.



Test No. LT123271 tested in accordance with IESNA LM-79-08.



Test No. LT12321 tested in accordance with IESNA LM-79-08.



Test No. LT123164B tested in accordance with IESNA LM-79-08.



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

#### Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*for use when motion sensor is used as dusk to dawn control.


### Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

#### Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> DSX1 LED P5 30K T4M MVOLT RPA DDBXD	<b>Type:</b>  <b>P2</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999
T2S	8,240	2	0					2	118	8,877	2	0	2	127	8,989	2	0	2	128
T2M	8,283	2	0					2	118	8,923	2	0	2	127	9,036	2	0	2	129
T3S	8,021	2	0					2	115	8,641	2	0	2	123	8,751	2	0	2	125
T3M	8,263	2	0					2	118	8,901	2	0	2	127	9,014	2	0	2	129
T4M	8,083	2	0					2	115	8,708	2	0	2	124	8,818	2	0	2	126
TFTM	8,257	2	0					2	118	8,896	2	0	2	127	9,008	2	0	2	129
TSVS	8,588	3	0					0	123	9,252	3	0	0	132	9,369	3	0	0	134
TSS	8,595	3	0					1	123	9,259	3	0	1	132	9,376	3	0	1	134
TSM	8,573	3	0					2	122	9,236	3	0	2	132	9,353	3	0	2	134
TSW	8,517	3	0					2	122	9,175	4	0	2	131	9,291	4	0	2	133
BLC	6,770	1	0					2	97	7,293	1	0	2	104	7,386	1	0	2	106
LCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79
RCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	P3	102W					T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657
T2S	13,421	3	0					3	107	14,458	3	0	3	116	14,641	3	0	3	117
T2M	13,490	2	0					2	108	14,532	3	0	3	116	14,716	3	0	3	118
T3S	13,064	3	0					3	105	14,074	3	0	3	113	14,252	3	0	3	114
T3M	13,457	2	0					2	108	14,497	2	0	2	116	14,681	2	0	2	117
T4M	13,165	2	0					3	105	14,182	2	0	3	113	14,362	2	0	3	115
TFTM	13,449	2	0					3	108	14,488	2	0	3	116	14,672	2	0	3	117
TSVS	13,987	4	0					1	112	15,068	4	0	1	121	15,259	4	0	1	122
TSS	13,999	3	0					1	112	15,080	3	0	1	121	15,271	3	0	1	122
TSM	13,963	4	0					2	112	15,042	4	0	2	120	15,233	4	0	2	122
TSW	13,872	4	0					3	111	14,944	4	0	3	120	15,133	4	0	3	121
BLC	11,027	1	0					2	88	11,879	1	0	2	95	12,029	1	0	2	96
LCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72
RCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	P5	138W					T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71



## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				TSS	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975
T2S	19,206	3	0					3	105	20,690	3	0	3	113	20,952	3	0	3	114
T2M	19,305	3	0					3	105	20,797	3	0	3	114	21,060	3	0	3	115
T3S	18,696	3	0					3	102	20,141	3	0	3	110	20,396	3	0	4	111
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112
TFTM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119
TSS	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119
TSM	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119
TSW	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				TSS	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900
T2S	25,548	3	0					4	106	27,522	3	0	4	114	27,871	3	0	4	116
T2M	25,680	3	0					3	107	27,664	3	0	3	115	28,014	3	0	3	116
T3S	24,870	3	0					4	103	26,791	3	0	4	111	27,130	3	0	4	113
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113
TFTM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121
TSS	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121
TSM	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120
TSW	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71
RCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

DSX1 LED P5 30K T4M MVOLT RPA  
DDBXD

Notes:

**Type:****P2**


LGNW21-81871

**Performance Data****Lumen Output**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
				60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061
T2S	16,461	4	0					4	120	17,733	4	0	4	129	17,957	4	0	4	131
T2M	16,758	4	0					4	122	18,053	4	0	4	132	18,281	4	0	4	133
T3S	16,205	4	0					4	118	17,457	4	0	4	127	17,678	4	0	4	129
T3M	16,748	4	0					4	122	18,042	4	0	4	132	18,271	4	0	4	133
T4M	16,432	4	0					4	120	17,702	4	0	4	129	17,926	4	0	4	131
TFTM	16,857	4	0					4	123	18,159	4	0	4	133	18,389	4	0	4	134
TSVS	16,975	4	0					1	124	18,287	4	0	1	133	18,518	4	0	1	135
TSS	16,832	4	0					1	123	18,133	4	0	2	132	18,362	4	0	2	134
TSM	16,828	4	0					2	123	18,128	4	0	2	132	18,358	4	0	2	134
TSW	16,677	4	0					3	122	17,966	5	0	3	131	18,193	5	0	3	133
BLC	13,845	3	0					3	101	14,915	3	0	3	109	15,103	3	0	3	110
LCCO	9,888	1	0					3	72	10,652	2	0	3	78	10,787	2	0	3	79
RCCO	9,875	4	0					4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	P12	207W					T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
				60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709
T2S	25,254	5	0					5	109	27,205	5	0	5	118	27,550	5	0	5	119
T2M	25,710	4	0					4	111	27,696	4	0	4	120	28,047	4	0	4	121
T3S	24,862	5	0					5	108	26,783	5	0	5	116	27,122	5	0	5	117
T3M	25,695	5	0					5	111	27,680	5	0	5	120	28,031	5	0	5	121
T4M	25,210	5	0					5	109	27,158	5	0	5	118	27,502	5	0	5	119
TFTM	25,861	5	0					5	112	27,860	5	0	5	121	28,212	5	0	5	122
TSVS	26,043	5	0					1	113	28,056	5	0	1	121	28,411	5	0	1	123
TSS	25,824	4	0					2	112	27,819	5	0	2	120	28,172	5	0	2	122
TSM	25,818	5	0					3	112	27,813	5	0	3	120	28,165	5	0	3	122
TSW	25,586	5	0					4	111	27,563	5	0	4	119	27,912	5	0	4	121
BLC	21,241	4	0					4	92	22,882	4	0	4	99	23,172	4	0	4	100
LCCO	15,170	2	0					4	66	16,342	2	0	4	71	16,549	2	0	4	72
RCCO	15,150	5	0					5	66	16,321	5	0	5	71	16,527	5	0	5	72



Submitted by The Lighting Group LLCChris Hamaker  <b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Catalog Number:</b> DSX1 LED P5 30K T4M MVOLT RPA DDBXD Notes:	<b>Type:</b> P2 LGNW21-81871
---	--	------------------------------------

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>3</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

### nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### WARRANTY


5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> RSA 20 5C DM28AS DDBXD	<b>Type:</b>  <b>P2</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871



## FEATURES & SPECIFICATIONS

**INTENDED USE** — These specifications are for USA standards only. Round Straight Aluminum is a general purpose light pole for up to 30-foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

**CONSTRUCTION** — **Pole Shaft:** The pole shaft is of uniform wall thickness and is one-piece extruded 6063 aluminum alloy with T6 temper. The shaft is uniform in cross-section down length of pole with no taper. Available shaft diameters are 4", 4.5" 5", and 6".

**Pole Top:** Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable aluminum top cap secured with three stainless-steel screws. The top cap resists intrusion of moisture or environmental contaminants.

**Handhole:** A non-reinforced handhole with grounding provision is provided near the base. Standard positioning varies with shaft width as follows: 4", 4.5", and 5" shaft, handhole at 12"; 6" shaft, handhole at 18" on side A. Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. All handholes for a pole specified with openings wfor 4" through 6" shaft width has nominal dimension of 2" x 4" with surface mount overlap design.

**Bolt Caps/Base Cover:** Pole base plate utilizes cast aluminum bolt caps to cover anchor bolt and nut assembly. Spun aluminum covers available as an option.

**Anchor Base/Bolts:** Anchor base is cast from 356 alloy aluminum and is heat treated to a T6 temper after welding. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end. Each hot-dipped galvanized anchor bolt is furnished with two hex nuts and two flat washers.

**HARDWARE** — All structural and non-structural fasteners are stainless-steel.

**FINISH** — Extra durable painted finish is coated with polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**NOTE:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number
Notes
Type


Anchor Base Poles



# RSA

ROUND STRAIGHT ALUMINUM



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> RSA 20 5C DM28AS DDBXD	<b>Type:</b>  <b>P2</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

## RSA Round Straight Aluminum Poles

ORDERING INFORMATION		Lead times will vary depending on options selected. Consult with your sales representative.			Example: RSA 16 4-5C DM19 BA
RSA	20				
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness <sup>1</sup>	Mounting <sup>1</sup>	Options	Finish <sup>10</sup>
RSA	8'-30' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.)  (See technical information table for complete ordering information.)	4C 4" (.125") 4-5C 4 1/2" (.125") 4-5G 4 1/2" (.188") <b>5C 5" (.125")</b> 5E 5" (.156") 5G 5" (.188") 6E 6" (.156") 6G 6" (.188")  (See technical information table for complete ordering information.)	<u>Tenon mounting</u> PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) <sup>2</sup> T35 4" O.D. (3-1/2" NPS) <sup>2</sup> <u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting<sup>3</sup></u> DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM32 3 at 120° DM39 3 at 90° DM49 4 at 90°  <u>CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting<sup>3</sup></u> <b>DM28AS 2 at 180°</b> DM29AS 2 at 90° DM32AS 3 at 120° DM39AS 3 at 90° DM49AS 4 at 90°  <u>RAD drill mounting<sup>3</sup></u> DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90°  <u>ESX Drill mounting<sup>3</sup></u> DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°  <u>AERIS™ Suspend drill mounting<sup>3,4</sup></u> DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90°  <u>OMERO™ Suspend drill mounting<sup>3,4</sup></u> DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	<u>Shipped installed</u> L/AB Less anchor bolts (Include when anchor bolts are not needed) VD Vibration damper TP Tamper resistant handhole cover fasteners HAXy Horizontal arm bracket (1 fixture) <sup>5,6</sup> FDLxy Festoon outlet less electrical <sup>5</sup> CPL12/xy 1/2" coupling <sup>5</sup> CPL34/xy 3/4" coupling <sup>5</sup> CPL1/xy 1" coupling <sup>5</sup> NPL12/xy 1/2" threaded nipple <sup>5</sup> NPL34/xy 3/4" threaded nipple <sup>5</sup> NPL1/xy 1" threaded nipple <sup>5</sup> EHHxy Extra handhole <sup>5,7</sup> MAEX Match existing <sup>8</sup> USPOM United States point of manufacture <sup>9</sup>  UL UL listed with label (Includes NEC compliant cover) NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled)  <u>Shipped separately (replacement kit available)</u> (blank) BLTC Bolt caps FBC Full base cover (spun aluminum) (blank) TC Top cap (with drill-mount poles) (blank) HHC Handhole cover	<u>Standard colors</u> <b>DDBXD Dark bronze</b> DWH White DBLXD Black DMB Medium bronze DNA Natural aluminum BA Brushed aluminum  <u>Classic colors</u> DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue  <u>Class 1 architectural anodized</u> ABL Black ADB Dark bronze ANA Natural  <u>Architectural Colors and Special Finishes<sup>10</sup></u> Duranodic Anodize, Paint over Duranodic Anodize, RAL Colors, Custom Colors and Extended Warranty Finishes available.


### NOTES:

- Wall thickness will be signified with a "C", "E" or a "G" in nomenclature. "C" - 0.125 | "E" - 0.156 | "G" - 0.188.
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option.  
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".  
Example: 5ft = 5 and 20ft 3in = 20-3  
For "y": Specify orientation from handhole  
(A,B,C,D) Refer to the Handhole Orientation diagram below.  
Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise. If ordering two horizontal arm at the same height, specify with HAXxy. Example: HA20B0
- Combination of tenon-top and drill mount includes extra handhole.
- Must add original order number of existing pole(s).
- Use when mill certifications are required.
- Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.



POLE-RSA



Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> RSA 20 5C DM28AS DDBXD	<b>Type:</b>  <b>P2</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Notes:</b>	LGNW21-81871

## RSA Round Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust									
Catalog number	Nominal mount ht. (ft) *	Pole shaft size (in x ft)	Wall thick (in)	EPA (ft²) with 1.3 gust			Max. weight (lbs)	Bolt size (in. x in. x in.)	Approximate ship (lbs.)
				80 mph	90 mph	100 mph			
RSA 8 4C	8	4 x 8	0.125	11.2	8.6	6.8	125	3/4 x 18 x 3	22
RSA 8 4-5C	8	4-1/2 x 8	0.125	14.6	11.3	9.1	175	3/4 x 18 x 3	30
RSA 8 4-5G	8	4-1/2 x 8	0.188	21.8	17	13.7	225	3/4 x 18 x 3	38
RSA 10 4C	10	4 x 10	0.125	8.2	6.1	4.7	100	3/4 x 18 x 3	26
RSA 10 4-5C	10	4-1/2 x 10	0.125	10.6	8.1	6.5	133	3/4 x 18 x 3	34
RSA 10 4-5G	10	4-1/2 x 10	0.188	16.3	12.6	10.1	175	3/4 x 18 x 3	43
RSA 10 5C	10	5 x 10	0.125	13.6	10.6	8.5	150	3/4 x 18 x 3	36
RSA 12 4C	12	4 x 12	0.125	6	4.3	3.2	110	3/4 x 18 x 3	30
RSA 12 4-5C	12	4-1/2 x 12	0.125	8.1	6	4.8	80	3/4 x 18 x 3	38
RSA 12 4-5G	12	4-1/2 x 12	0.188	12.7	9.7	7.7	185	3/4 x 18 x 3	50
RSA 12 5C	12	5 x 12	0.125	10.3	8	6.3	150	3/4 x 18 x 3	36
RSA 12 5E	12	5 x 12	0.156	13.2	10.3	8.2	200	3/4 x 18 x 3	44
RSA 12 5G	12	5 x 12	0.188	16.2	12.6	10.1	225	3/4 x 18 x 3	53
RSA 14 4C	14	4 x 14	0.125	4.1	2.8	1.9	75	3/4 x 18 x 3	35
RSA 14 4-5C	14	4-1/2 x 14	0.125	5.8	4.2	3.3	60	3/4 x 18 x 3	39
RSA 14 4-5G	14	4-1/2 x 14	0.188	9.7	7.3	5.8	190	3/4 x 18 x 3	56
RSA 14 5C	14	5 x 14	0.125	7.8	6	4.7	100	3/4 x 18 x 3	42
RSA 14 5E	14	5 x 14	0.156	10.3	8	6.3	125	3/4 x 18 x 3	47
RSA 14 5G	14	5 x 14	0.188	12.8	9.9	7.9	150	3/4 x 18 x 3	56
RSA 16 4C	16	4 x 16	0.125	2.8	1.6	1	150	3/4 x 18 x 3	38
RSA 16 4-5C	16	4-1/2 x 16	0.125	3.3	2.2	1.6	100	3/4 x 18 x 3	46
RSA 16 4-5G	16	4-1/2 x 16	0.188	7.5	5.5	4.3	155	3/4 x 18 x 3	62
RSA 16 5C	16	5 x 16	0.125	5.9	4.4	3.4	175	3/4 x 18 x 3	46
RSA 16 5E	16	5 x 16	0.156	8	6.1	4.8	190	3/4 x 18 x 3	53
RSA 16 5G	16	5 x 16	0.188	10.1	7.8	6.1	200	3/4 x 18 x 3	60
RSA 16 6E	16	6 x 16	0.156	13.6	10.6	8.4	225	3/4 x 30 x 3	53
RSA 16 6G	16	6 x 16	0.188	16.8	13	10.4	245	3/4 x 30 x 3	78
RSA 18 5G	18	5 x 18	0.188	8	6.8	4.7	225	3/4 x 18 x 3	68
RSA 18 5C	18	5 x 18	0.125	4.3	3.1	2.4	150	3/4 x 18 x 3	48
RSA 18 5E	18	5 x 18	0.156	6.1	4.6	3.5	175	3/4 x 18 x 3	58
RSA 18 4-5G	18	4-1/2 x 18	0.188	5.7	4	3.1	123	3/4 x 18 x 3	68
RSA 18 6G	18	6 x 18	0.188	13.9	10.7	8.5	225	3/4 x 30 x 3	86
RSA 20 4-5G	20	4-1/2 x 20	0.188	4.3	2.9	2.1	95	3/4 x 18 x 3	74
RSA 20 5C	20	5 x 20	0.125	3	2.1	1.5	150	3/4 x 18 x 3	54
RSA 20 5E	20	5 x 20	0.156	4.7	3.4	2.6	150	3/4 x 18 x 3	68
RSA 20 5G	20	5 x 20	0.188	6.4	4.8	3.6	150	3/4 x 18 x 3	82
RSA 20 6E	20	6 x 20	0.156	9.3	7.1	5.5	175	3/4 x 30 x 3	95
RSA 20 6G	20	6 x 20	0.188	11.8	9.1	7.1	200	3/4 x 30 x 3	110
RSA 25 4-5G	25	4-1/2 x 25	0.188	1.3	--	--	100	3/4 x 18 x 3	89
RSA 25 6E	25	6 x 25	0.156	5.2	3.8	2.8	150	3/4 x 30 x 3	108
RSA 25 6G	25	6 x 25	0.188	7.1	5.3	4	150	3/4 x 30 x 3	128
RSA 30 6G	30	6 x 30	0.188	3.5	2.4	1.6	200	3/4 x 30 x 3	146

\* TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

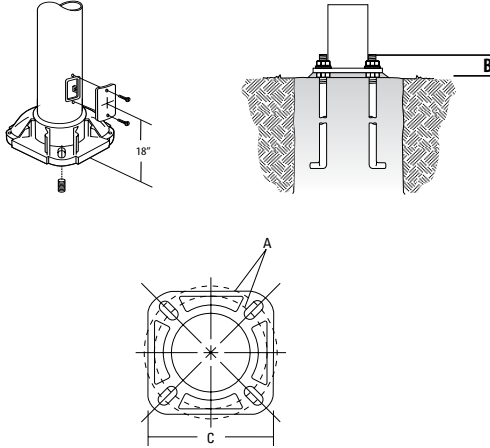
**Catalog Number:**

RSA 20 5C DM28AS DDBXD

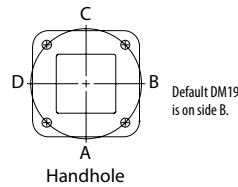
Notes:

**Type:****P2**

LGNW21-81871

**RSA Round Straight Aluminum Poles****BASE DETAIL****POLE DATA**

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description
4"	6.75" - 8.00"	3.25"	8.91"	ABTEMPLATE PJ50057	AB18-0
4.5"	7.06" - 8.62"	3.25"	9.26"	ABTEMPLATE PJ50040	AB18-0
5"	7.75" - 8.00"	3.25"	9.61"	ABTEMPLATE PJ50058	AB18-0
6"	9.00"-10.00"	3.50"	10.32"	ABTEMPLATE PJ50059	AB30-0

**HANDHOLE ORIENTATION****IMPORTANT INSTALLATION NOTES:**

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.



## MARK ARCHITECTURAL LIGHTING™



## Slot 2 LED Direct Pendant

The Slot LED family of luminaires offers an unparalleled package of performance and features for your next lighting project. Precision lumen DIRECTIR optics deliver optimized light where needed for ceilings and walls. With other key features such as simplified installation, seamless controls integration and superior color constancy, the Slot LED family from Mark Lighting offers exceptional quality and design flexibility.

Type:

Project:

Catalog Number:

DO NOT TYPE HERE. Autopopulated field.

### Specification Features

#### Housing

Nominal 2.5" x 3.75" extruded aluminum housing

#### Finish

White, Black or Silver powdercoat

#### Reflector

Formed steel with high reflectance white

#### Distribution/Shielding

Extruded 90% transmissive acrylic lens with a textured surface providing diffuse illumination and a uniform appearance for direct lambertian distribution (No Optics). Wall Wash (WW) and Wall Graze (WG) distribution options incorporate co-extruded lenses. Shielding is available as an external blade louver for WW or WG options, or an internal blade louver in lieu of lambertian distribution diffuser.

#### LED Components

Linear: Nichia®- 757 series LED chips (>80 CRI)

#### Electrical

Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

#### Color Consistency

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

#### Driver

eldoLED® driver provides natural dimming with smooth, continuous and flicker-free deep dimming. Supports operation between 120VAC and 277 VAC, with low inrush current (NEMA 410) and THD < 20%. Meets FCC Title 47 C.F.R. 15 Class A or Class B requirements. Lutron high performance driver options also available.

#### Certification

CSA tested to UL 1598 standards, assembled in the USA. Damp Location Listed.

#### Listings

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

#### Warranty

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

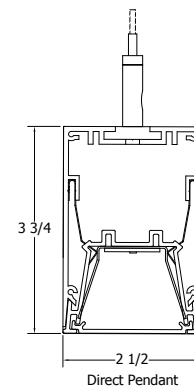
All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

### Fixture Performance

4FT INDIVIDUAL (35K)	DIRECT			
Lumens Output	400LMF	600LMF	800LMF	1000LMF
Delivered Lumens	1766	2710	3577	4225
Input Watts	14.4	22.5	30.6	37.1
Lumen/Watt	122	120	116	113

\* Consult factory for customized lumen output and wattage between 350LMF and 1050LMF.

### Technical Drawing



Buy American

#### Buy American:

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

#### A+ Capable Luminaire


This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background\***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background\***

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

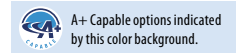


Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1 MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL	<b>Type:</b>  <b>PL-1</b>  LGNW21-81871
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Notes:</b>	

# MARK

## ARCHITECTURAL LIGHTING™

### Slot 2 LED Direct Pendant



### Ordering

Example: S2LD 32FT MSL8 80CRI 30K 400LMF MIN1 MVOLT WHT ZT F1/36A RDCY WHTCY WCRD

Series	Plan	Total Run Length	Max Section Length	Direct Light Source Color Rendering	Direct LED Color Temp	Direct LED Light Output	Direct Distribution (Optics)
<b>S2LD</b> Slot 2 Pendant - Direct	<b>LCB</b> Linear center balanced	<b>4FT</b> Specify continuous run length (in whole feet, 2' minimum) Unit length may affect available options. 2' & 3' only available as individual units	<b>MSL4</b> 4' MSL5 5' MSL6 6' MSL7 7' MSL8 8'	<b>80CRI</b> 80 CRI <b>90CRI</b> 90 CRI	27K 2700K 30K 3000K <b>35K</b> 3500K 40K 4000K 50K 5000K	<b>400LMF</b> 400 Lumens per FT <b>600LMF</b> 600 Lumens per FT <b>800LMF</b> 800 Lumens per FT <b>1000LMF</b> 1000 Lumens per FT _LMF¹ # Lumens per FT	<b>(blank)</b> Standard Lambertian Distribution <b>WW</b> Wallwash Distribution <b>WG</b> Wall Graze Distribution WW and WG not available with Downlights, EGLD, LVRR or LVRRRA.

Downlight	Downlight Shape	Downlight Color Rendering	Downlight Color Temp	Minimum Dimming Level	Optional Shielding	Voltage
<b>(blank)</b> No Downlight modules in fixture <b>2DL</b> LED Downlights (2 per unit) <b>_DL</b> LED Downlights per run (3DL, 4DL, etc)	<b>(blank)</b> No Downlight modules in fixture <b>RDD</b> Round <b>SQD</b> Square	<b>(blank)</b> No Downlight modules in fixture <b>S80CRI</b> 80CRI	<b>(blank)</b> No Downlight modules in fixture <b>S27K</b> 2700K <b>S30K</b> 3000K <b>S35K</b> 3500K <b>S40K</b> 4000K	<b>NODIM</b> ² Non-dimming <b>MIN1</b> Constant current, dimming to 1% <b>DARK</b> Constant current, dimming to 0.1%	<b>(blank)</b> No louver <b>LVRD</b> ³ Dropped louver <b>LVRR</b> ⁴ Regressed louver painted to match fixture finish <b>LVRRRA</b> ⁴ Regressed louver, aluminum finish <b>EGLD</b> ¹ Edge View direct lens Not available with Downlights. Not available with NLTAIR2	<b>MVOLT</b> Multi-volt, 120-277V <b>120</b> 120V <b>277</b> 277V <b>347</b> ⁵ 347V

Finish	Emergency Options	Control Input	Sensor	Secondary Sensor
<b>WHT</b> White (gloss) <b>BLK</b> Black (gloss) <b>SLV</b> Silver (gloss) <b>WHTT</b> White (textured) <b>BLKT</b> Black (textured) <b>SLVT</b> Silver (textured) <b>RALTBD</b> RAL paint finishes	<b>E10WLCP</b> ⁶ 4' emergency section w/ battery pack, 1250 lumens <b>E10WLCP</b> ⁵ 4' emergency section w/ battery pack, 1250 lumens <b>_EC</b> ⁷ # of emergency circuits <b>BGTD</b> ⁷,⁸ Generator transfer device Not available with 347V.	<b>(blank)</b> Non-dimming, line voltage <b>ZT</b> 0-10V control <b>NLIGHT</b> ⁹ nLight enabled <b>NLTAIR2</b> ¹⁰ nLight Air Wireless Enabled <b>DALI</b> ¹⁰ DALI compatible <b>DMX</b> ¹⁰,¹¹ DMX compatible <b>ECOD</b> ¹¹,¹² Lutron Hi-Lume digital driver <b>ECOD2</b> ¹¹,¹²,¹³ Lutron Hi-Lume 2-wire (1% dimming) <b>ECOD5</b> ¹¹,¹² Lutron 5-series digital driver (5% dimming)	<b>(blank)</b> Select if single zone/no zone without sensor <b>NS</b> Select if multi-zone fixture with no sensor in main zone <b>PDT</b> ¹⁴ Occupancy sensor - dual technology (passive infrared & microphonics) <b>ADC</b> ¹⁴ Photocell-daylight dimming sensor <b>API</b> ¹⁴ PIR occupancy sensor & photocell <b>APD</b> ¹⁴ PDT occupancy sensor & photocell Not available with Downlights. Not available with 347V & nLight. (Use ZT Control Inputs where applicable.) Not available on 2' or 3' units.	<b>(blank)</b> No additional zones/sensors <b>SNS</b> Select if multi-zone fixture with no sensor in secondary zone <b>SPDT</b> ¹⁴ Occupancy sensor - dual technology (passive infrared & microphonics) <b>SADC</b> ¹⁴ Photocell-daylight dimming sensor <b>SAPI</b> ¹⁴ PIR occupancy sensor & photocell <b>SAPD</b> ¹⁴ PDT occupancy sensor & photocell Not available with Downlights. Not available with 347V & nLight. (Use ZT Control Inputs where applicable.) Not available on 2' or 3' units.

Tertiary Sensor	Mounting Type	Overall Suspension	Canopy Form	Canopy Color	Cord Color	Options
<b>(blank)</b> No additional zones/sensors <b>TNS</b> Select if multi-zone fixture with no sensor in tertiary zone	<b>F1/</b> T-bar ceiling (universal mounting bracket) <b>F1A/</b> T-bar ceiling (UMB with integrated J-box) <b>F2/</b> Hard ceiling (horizontal J-box)	<b>36A</b> 36" adjustable <b>72A</b> 72" adjustable <b>144A</b> 144" adjustable * Measured from ceiling to bottom of luminaire.	<b>RDCY</b> Round canopy <b>SQCY</b> Square canopy	<b>BLKCY</b> Black canopy <b>WHTCY</b> White canopy <b>SLVCY</b> Silver canopy	<b>WCRD</b> White cord <b>CCRD</b> Clear cord <b>BCRD</b> ¹⁵ Black cord	<b>BAA</b> Buy America(n) Compliant <b>DPL</b> Damp location listing <b>GLR</b> ¹³ Fast-blow fuse <b>GMF</b> ¹³ Slow-blow fuse <b>MCS</b> 5" support canopy to match feed canopy <b>PIF</b> Power Feed Installed

#### Notes:

- Limited to 350LMF to 1050LMF in 50LMF increments. Not available with ECOD, ECOD2, ECOD5 or DMX control input.
- Not available with Control Input.
- Not available with Sensor Options.
- Not available with sensors on 2', 3' & 5' units.
- DCT & 347V not available with 2' & 3' units. 347V also not available with ZT & sensors, emergency options, NLIGHT in 5' units, & NLIGHT with downlights. Only available with WCRD.
- Not available with 2' or 3' units. Not available with DMX control option. One battery pack per unit. Only available on 8' unit with ECOD, ECOD2, ECOD5. If with ZT & API or APD, only available in 7' & 8' units.
- Powers entire direct unit. Not available with DMX.
- Must select 120 or 277 volt. Remote mounted. Not available with sensor and BGTD in same unit. Not available with DMX.
- Comes with white CAT5 cord in addition to the standard power cord. Will require remote mounted nLO on 2' unit. One nLight device per zone or sensor, for multiple zones consult factory.
- Must select DARK Dim Level.
- Not available with 347V.
- Must select MIN1 Dim Level. Not available on 2', 3' or 5' units.
- 120V only.
- Requires ZT or NLIGHT Control Input.
- Longer lead time item.
- Must select MIN1 or DARK Dim Level. Not available with 347. Not available with 347, WW, 2' or 3' units. If ordered with E10WLCP, only available in 7' & 8' units. One NLTAIR2 device per zone or sensor, for multiple zones consult factory. For antenna location, see page 10.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1  
MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL

Notes:

**Type:****PL-1**

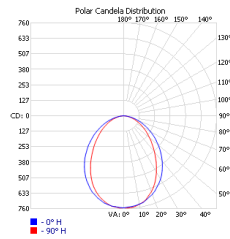
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

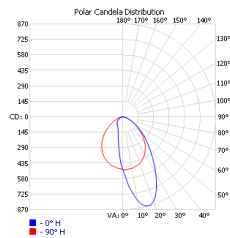
Direct Pendant

**PHOTOMETRICS**

Test Report: ISF 37224P0  
IES LM 79-08  
S2LD 4FT 80CRI 30K 400LMF  
Lumens: 1697  
Wattage: 14.44  
Efficacy: 117.5

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	559.6	33%
0-40	879	51.80%
0-60	1415.1	83.40%
60-90	281.4	16.60%
70-100	115.5	6.80%
90-120	0.3	0%
0-90	1696.6	100%
90-180	0.4	0%
0-180	1697	100%

Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	753	753	753	753	753	753	753	753	753
5	745	748	749	749	753	749	751	751	747
10	734	739	737	735	735	736	740	742	738
15	712	714	710	705	708	706	711	721	718
20	684	685	676	662	662	663	677	689	689
25	643	642	627	606	603	610	630	649	653
30	601	596	574	544	535	545	575	602	609
35	548	539	510	475	462	474	512	548	557
40	490	479	443	408	393	406	447	488	500
45	428	416	379	339	328	344	384	427	438
50	366	354	314	282	271	284	322	363	378
55	308	295	257	231	223	233	263	303	314
60	248	236	205	183	177	187	212	244	256
65	193	184	161	142	137	143	163	190	201
70	143	133	117	105	102	107	122	141	151
75	96	89	78	72	69	73	84	95	101
80	53	51	46	41	41	44	49	55	59
85	20	19	19	19	19	20	22	24	24
90	0	0	1	1	1	2	2	2	2



Test Report: ISF 37225P0  
IES LM 79-08  
S2LD 4FT 80CRI 30K 400LMF WW  
Lumens: 1047  
Wattage: 14.5  
Efficacy: 72.2

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	390.8	37.30%
0-40	605.7	57.90%
0-60	921.1	88%
60-90	119.6	11.40%
70-100	44.5	4.20%
90-120	3.1	0.30%
0-90	1040.7	99.40%
90-180	6.3	0.60%
0-180	1047	100%

Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	493	493	493	493	493	493	493	493	493
5	652	637	603	558	493	443	391	362	353
10	796	773	715	619	490	378	296	250	236
15	866	853	791	666	479	321	222	178	164
20	843	843	818	693	464	270	172	136	128
25	745	766	792	697	439	225	138	114	108
30	620	645	718	672	408	191	116	100	97
35	499	525	616	614	367	161	101	90	89
40	392	420	506	538	322	136	90	83	81
45	311	331	400	448	270	114	79	73	73
50	241	255	314	353	217	96	69	65	64
55	177	191	238	265	166	79	58	54	54
60	126	136	171	191	123	61	47	43	43
65	85	91	117	131	86	47	36	34	33
70	57	60	76	84	56	34	26	24	24
75	36	38	45	50	35	22	17	16	16
80	20	20	23	25	19	11	9	9	9
85	8	8	8	8	7	5	4	4	5
90	1	1	0	0	0	0	0	1	1

EXPECTED LIFE: L85 @ 60,000  
CALCULATED LIFE: L70 @ 120,000

**Shielding**

Co-Extruded WG



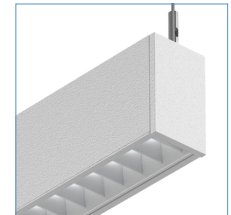
Co-Extruded WW



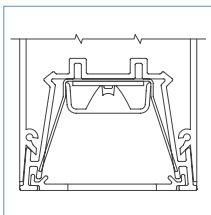
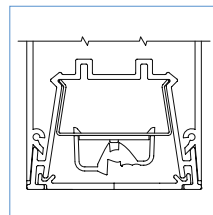
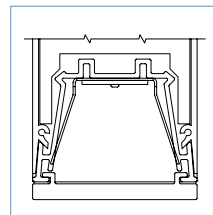
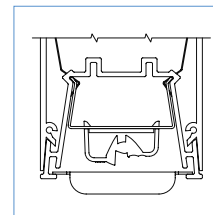
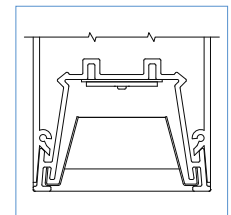
Edge View Lens



External Louver



Regressed Louver

Co-Extruded WG  
(Standard)Co-Extruded WW  
(Standard)Edge View Lens  
(Optional)External Louver WW  
(Painted to Match Housing)Regressed Louver  
(Natural Aluminum or Painted to Match Housing)



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1  
MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL

**Notes:****Type:****PL-1**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Direct Pendant

**LINEAR PLAN:**

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

**LLP- Linear Longest Possible**

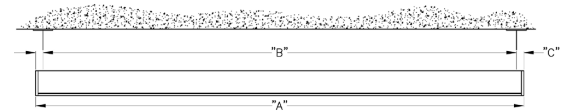
In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution, should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segment and 1, 4 FT segment at the end of the run.

LLP	8 FT	8 FT	4 FT
-----	------	------	------

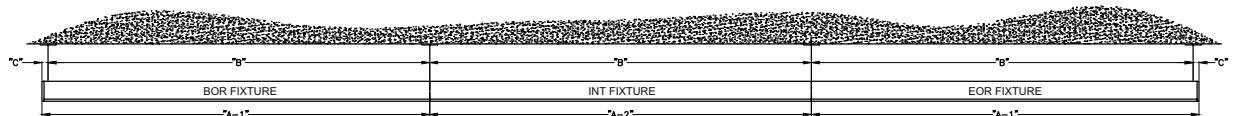
**LCB- Linear Center Balanced:**

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

LCB	4 FT	8 FT	4 FT
-----	------	------	------

**Individual Fixture Configurations**

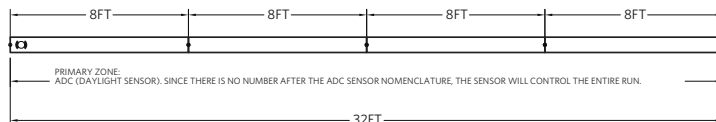
LENGTH	INDIVIDUAL UNITS (MOUNTING)		
	"A" O.A.L.	"B" O.C.	"C" FROM END
2FT	2'- 5/8"	2'-0"	5/16"
3FT	3'- 5/8"	3'-0"	5/16"
4FT	4'- 5/8"	4'-0"	5/16"
5FT	5'- 5/8"	5'-0"	5/16"
6FT	6'- 5/8"	6'-0"	5/16"
7FT	7'- 5/8"	7'-0"	5/16"
8FT	8'- 5/8"	8'-0"	5/16"

**Run Configurations**

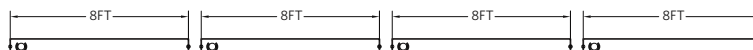
LENGTH	RUN LAYOUT (MOUNTING)			
	"A-1" O.A.L.	"A-2" O.A.L.	"B" O.C.	"C" FROM END
4FT	4'-0 5/16"	4'-0"	4'-0"	5/16"
5FT	5'-0 5/16"	5'-0"	5'-0"	5/16"
6FT	6'-0 5/16"	6'-0"	6'-0"	5/16"
7FT	7'-0 5/16"	7'-0"	7'-0"	5/16"
8FT	8'-0 5/16"	8'-0"	8'-0"	5/16"

**TOTAL RUN LENGTH**

This system is not modular. Runs longer than 8FT will be automatically configured with Starter, Middle and Ender sections, based on how you specify the TOTAL RUN LENGTH and MAXIMUM SECTION LENGTH parameters in the ordering information. Always order the total run length, not the individual sections



Example: This run must be ordered as 1pc "S2LD LLP 32FT MSL8..."



Example: If you order as 4pcs "S2LD LLP 8FT MSL8..." you will receive these INDIVIDUAL sections that cannot be joined together

**MAXIMUM SECTION LENGTH**

The run will be broken out using as many sections at the chosen MSL length as possible. Shorter sections will then complete the desired run length.

Examples:  
S2LD LLP 21FT MSL5... = 5FT / 4FT / 4FT / 4FT / 4FT  
S2LD LLP 21FT MSL6... = 6FT / 6FT / 5FT / 4FT  
S2LD LLP 21FT MSL7... = 7FT / 7FT / 7FT  
S2LD LLP 21FT MSL8... = 8FT / 8FT / 5FT



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1  
MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL

**Notes:****Type:****PL-1**

LGNW21-81871

**MARK**

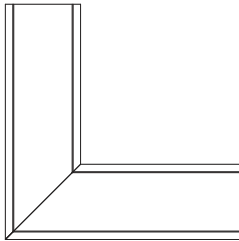
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

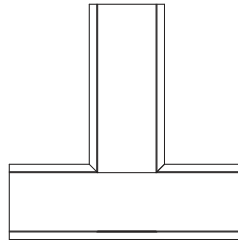
Direct Pendant

**Run Patterns, Corners and Junction**

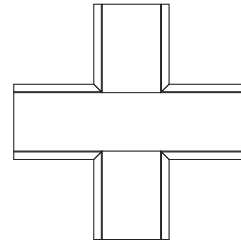
Slot 2 LED patterns can be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.  
See separate patterns spec sheets for more details.



90° Corner



T Junction



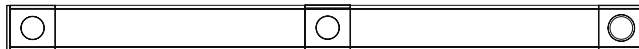
X Junction

**Downlights**

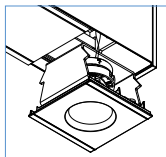
Optional downlights powered by Xicato Spot Modules are available with 4', 5', 6', and 8' length luminaires, maximum (2) Xicato downlights per length. Each downlight module is 10W with 700 lumens delivered, 28 degree beam spread. Downlights are supplied with a dedicated feed-point and will be controlled separately.



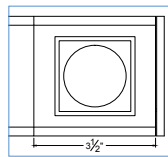
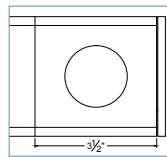
Standard Downlight Location



Other Downlight Configuration (consult factory)



Downlight Module

Square Downlight  
Plate (SQ)Round Downlight  
Plate (RD)



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1  
MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL

Notes:

**Type:****PL-1**

LGNW21-81871

# MARK ARCHITECTURAL LIGHTING™

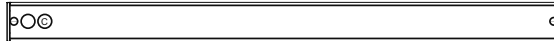
## Slot 2 LED Direct Pendant

**Feed Point Locations**

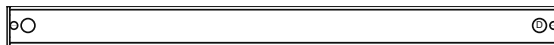
- Non-Power Feed Point / Aircraft Cable
- Power Feed
- ⊙ Battery Power Feed
- ⊕ CAT5
- ⊖ Downlight Power Feed



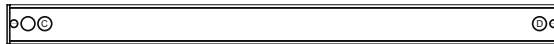
Direct, Dimming\* or Non-Dimming



Direct, nLight Controls (wired)



Direct, w/ Downlights\*\*, Dimming\* or Non-Dimming



Direct, w/ Downlights\*\*, nLight Controls (wired)\*\*\*



Direct, Battery (E10WLCP), Dimming\* or Non-Dimming

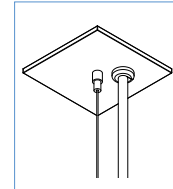


Direct, Battery (E10WLCP), nLight Controls (wired)

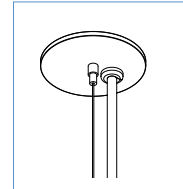
\* 2-Wire Dimming (ZT, DALI, and Lutron EcoSystem)

\*\* Downlights are supplied with a dedicated feed-point and will be controlled separately.

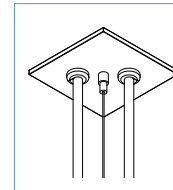
\*\*\* Downlights with nLight wired controls will use a J-Box mounted control module outside of fixture.

**Single Feed Points**

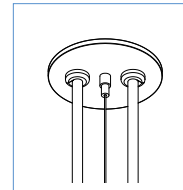
5" Square



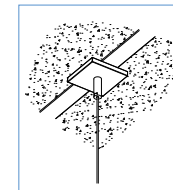
5" Round

**Feed and Cat 5 points**

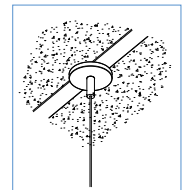
5" Square



5" Round

**Non-Feed Points for T-Bar Mounting**

2" Square

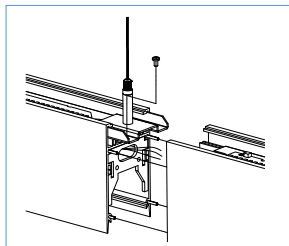


2" Round

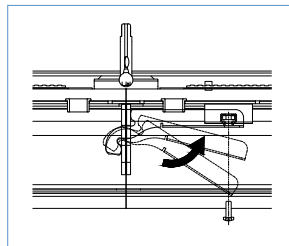
Refer to page 7 for mounting details.

**Joiners**

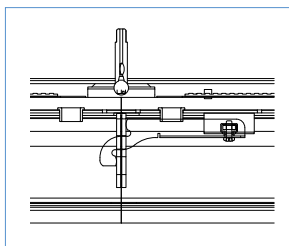
AEL Precision Row-Mount 3-step fixture-to-fixture connection method



Step 1: Align



Step 2: Engage



Step 3: Lock

**Continuous Runs**

Slot 2 LED continuous rows can be configured in 1' increments and featuring the AEL precision joiner to create a hairline seam between luminaires, providing a monolithic visual aesthetic. For custom run lengths less than a 1' increment, consult factory.



# MARK ARCHITECTURAL LIGHTING™

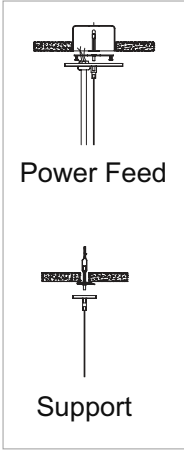
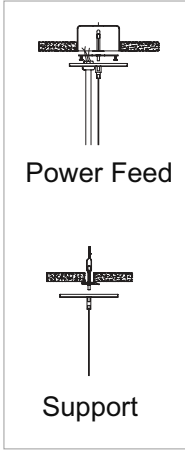
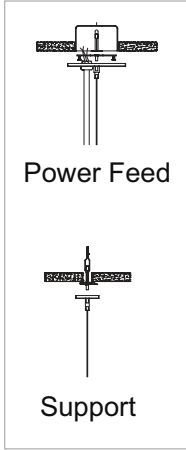
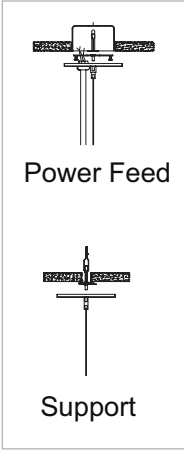
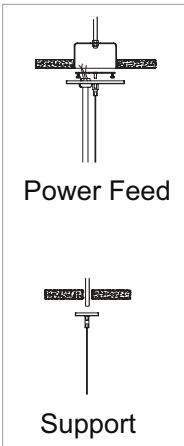

## Slot 2 LED Direct Pendant

### MOST COMMON MOUNTING TYPES AND OPTIONS

Options available for this specific luminaire are checked in the boxes below.

Mounting Type	Mounting Options
<b>F1/</b> For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.	<b>MCS</b> Matching canopy at support for aesthetics.
<b>F2/</b> For use with recessed or surface mount horizontal J-box applications.	
<b>F1A/</b> For use with most T-Bar grid ceilings. Designed for on-grid applications. <i>Comes complete with J-box with built-in cutout to go over grid.</i>	

☒ Indicates mounting options available with this luminaire.

<input checked="" type="checkbox"/> <b>F1/</b>  <p>Power Feed</p> <p>Support</p>	<input checked="" type="checkbox"/> <b>F1/ ordered with MCS</b>  <p>Power Feed</p> <p>Support</p>	<input checked="" type="checkbox"/> <b>F1A/</b>  <p>Power Feed</p> <p>Support</p>	<input checked="" type="checkbox"/> <b>F1A/ ordered with MCS</b>  <p>Power Feed</p> <p>Support</p>
<input checked="" type="checkbox"/> <b>F2/</b>  <p>Power Feed</p> <p>Support</p>	<input checked="" type="checkbox"/> <b>F2/ ordered with MCS</b>  <p>Power Feed</p> <p>Support</p>		



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1  
MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL

**Notes:****Type:****PL-1**

LGNW21-81871

# MARK ARCHITECTURAL LIGHTING™

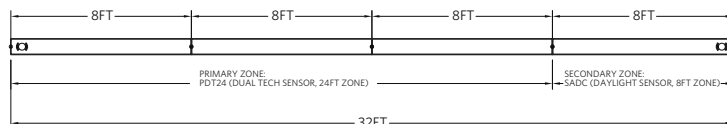
## Slot 2 LED Direct Pendant

**INTEGRATED SENSOR LAYOUT**

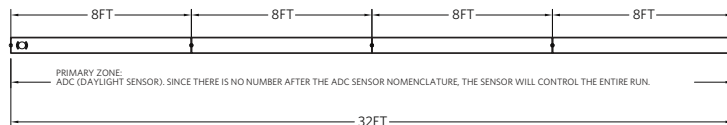
For runs longer than 8FT:  
**ALWAYS** order the run by the **TOTAL RUN LENGTH**. Ordering the sections individually will not provide the correct joining hardware to allow connection in the field.

**CORRECT:**

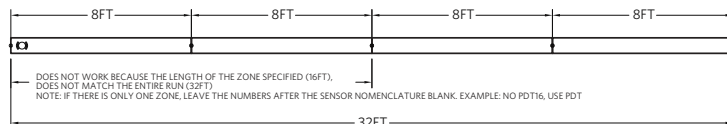
32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 24FT AND SECONDARY ZONE 8FT -- PDT24 SADC8

**Total Run Length to Order**

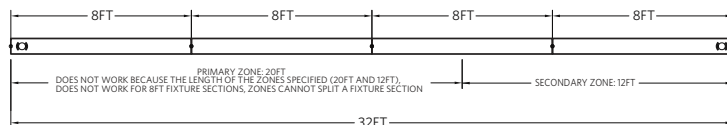
32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- ADC

**Total Run Length to Order****INCORRECT:**

32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- PDT16



32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 20FT AND SECONDARY ZONE 12FT -- PDT20 SADC12

**Notes:**

- Only one sensor per zone
- At the most, the entire run can only have 2 sensors (thus 2 sensors zones at the most)
- Sensor zone can not split fixture sections
- No overlapping zones

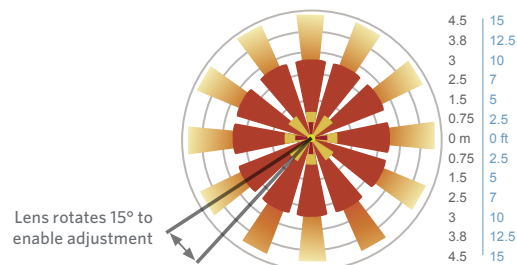
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

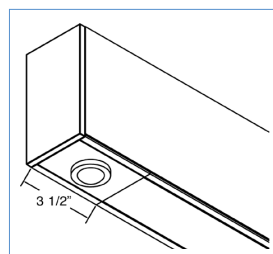
Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.

**Integrated Controls**

Optional nLight® integrated controls make Slot LED luminaires addressable- allowing them to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling.



Occupancy Sensor and/or Photocell



# MARK

## ARCHITECTURAL LIGHTING™

### Slot 2 LED

#### Direct Pendant

### Intelligent Luminaire Technology Guide

Choose nomenclature from these columns							
Driver Configurations	Minimum Dimming Level	Control Input		Driver	Dimming Range	Notes	
	NODIM	+	(blank)	=	0 10V Generic Driver	-	Includes no 0 10V leads from the driver.
	MIN10	+	ZT	=	0 10V Generic Driver	100 to 10%	Linear dimming
	MIN1	+	ZT	=	0 10V eldoLED ECOdrive	100 to 1%	Formerly (EZ1) nomenclature. Linear dimming
	MIN1	+	NLIGHT	=	0 10V eldoLED ECOdrive	100 to 1%	Logarithmic dimming
	MIN1	+	ECOD2	=	Lutron forward phase control	100 to 1%	LUTRON Hi-lume 1% 2-wire (model LTEA4U1U)
	MIN1	+	ECOD5	=	Lutron Ecosystem	100 to 5%	LUTRON 5 Seires EcoSystem LED Driver (model LDE5)
	MIN1		ECOD		Lutron Ecosystem	100 to 1%	LUTRON Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black (model LDE1)
	DARK		ZT		0 10V eldoLED SOLOdrive	100 to 0.1%	Formerly (EZB) nomenclature. Linear dimming
	DARK		NLIGHT		0 10V eldoLED SOLOdrive	100 to 0.1%	Logarithmic dimming
	DARK		DALI		DALI compatible eldoLED SOLOdrive	100 to 0.1%	"Compatible with DALI. Formerly (EDB & EDAB) nomenclature." Logarithmic dimming
	DARK		DMX		DMX compatible eldoLED POWERdrive	100 to 0.1%	"Compatible with DMX / Remote Device Management. Formerly (EXB & EDXB) nomenclature." Linear dimming

Choose nomenclature from these columns						
Control / Sensor Configurations	Control Input		Sensor		Sensor	Notes
	ZT	+	API	=	MSD 7 ADCX	Individual fixture control only. PIR integral occupancy sensor with automatic dimming control photocell. (Old nomenclature: ZT + PIR + ADC)
	ZT	+	APD	=	MSD PDT 7 ADCX	Individual fixture control only. PDT integral occupancy sensor with automatic dimming control photocell. (Old nomenclature: ZT + PDT + ADC)
	NLIGHT	+	(blank)	=	nIO EZ PH	nLight enabled only. No onboard sensor.
	NLIGHT		EMG	=	nIO EZ PH ER	Emergency nLight enabled only. No onboard sensor.
	NLIGHT	+	API	=	nIO EZ PH + nES 7 ADCX	nLight nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell. (Old nomenclature: NLIGHT + PIR + ADC)
	NLIGHT	+	PDT	=	nIO EZ PH + nES PDT 7	nLight nES PDT 7 dual technology integral occupancy sensor. (Old nomenclature: NLIGHT + PDT)
	NLIGHT	+	APD	=	nIO EZ PH + nES PDT 7 ADCX	nLight nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell. (Old nomenclature: NLIGHT + PDT + ADC)
	NLTAIR2		(blank)		RIO EZDL 90D G2	<a href="https://www.acuitybrands.com/products/detail/778845/nLight/rIO/Fixture-embedded-nLight-AIR-network-interface">https://www.acuitybrands.com/products/detail/778845/nLight/rIO/Fixture-embedded-nLight-AIR-network-interface</a>
	NLTAIR2		API		RES7 G2	<a href="https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor">https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor</a>
	NLTAIR2		APD		RES7 PDT G2	<a href="https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor">https://www.acuitybrands.com/products/detail/593899/nLight/RES7_Sensor/nLight-AIR_Fixture-Integrated-Wireless-Sensor</a>



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

S2LD LLP 4FT MSL4 80CRI 35K 800LMF MIN1  
MVOLT WHT ZT F2/72A RDCY WHTCY WCRD DPL

**Notes:****Type:****PL-1**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

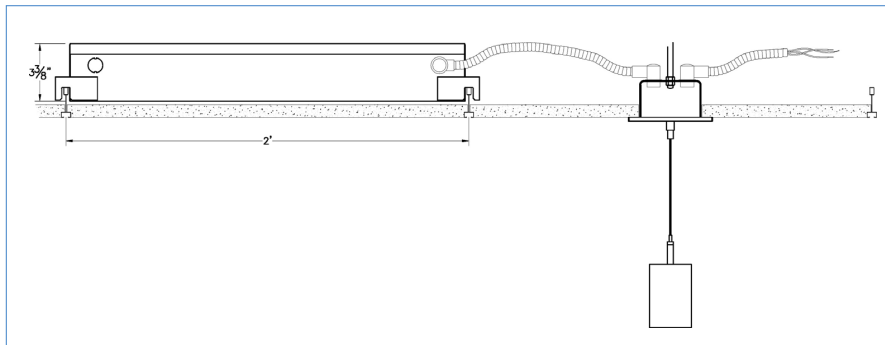
**Slot 2 LED**

Direct Pendant

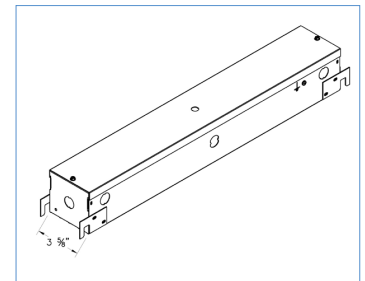
**Remote BGTD Mounting Option**

Recessed in sheetrock ceiling; rod mounted to structure. Consult factory for other ceiling types or canopy options.

6 foot flexible conduit included, BGTD option should be mounted within 6 feet of junction box above fixture.



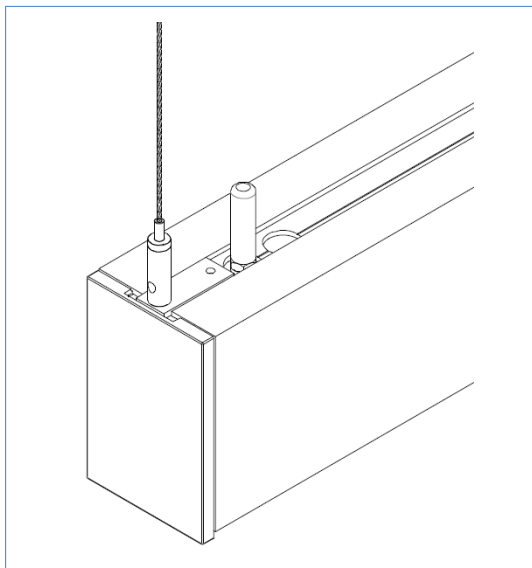
Accessible Ceiling

**Emergency Battery Packs**

The PS1055LCP battery is integral to the fixture and comes standard with a remote test switch and self-diagnostics.

**nLight Air Wireless Antenna Location**

Note: Antenna will be shipped separately and will need to be attached to the coax connector.



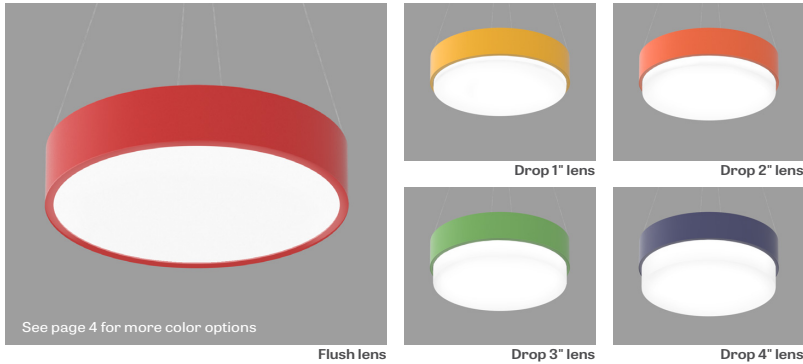


# POP COLOR ROUND 24 LED



**LUMENWERX**  
WWW.LUMENWERX.COM

## PENDANT DIRECT



**PROJECT:** \_\_\_\_\_

**TYPE:** \_\_\_\_\_

**NOTES:** \_\_\_\_\_

### DESCRIPTION

**POP Color** features a painted housing with a uniformly luminous diffuser that sits flush or drops up to 4" below. The diffuser and light engine form a fully enclosed unit secured by a twist-and-lock mechanism for easy maintenance with no exposed hardware. POP Color delivers up to 109 LPW and is available in nine standard housing colors.

### ORDER GUIDE

**up to 109 lm/W performance**

PCROPD	24	ULO	LED			
LUMINAIRE ID	SIZE	OPTIC	DROP LENS	LIGHT SOURCE	CRI	LUMEN PACKAGE
PCROPD - Pop Color Round Pendant Direct	24 - 24" diameter	ULO - Uniform Lambertian Optic	FH - Flush 1D - 1" drop 2D - 2" drop 3D - 3" drop 4D - 4" drop	LED - High performance LED	80 - 80CRI 90 - 90CRI	2500 - Min. low output 2500lm 3500 - Medium output 3500lm 4500 - Max. high output 4500lm #### - Other required lm

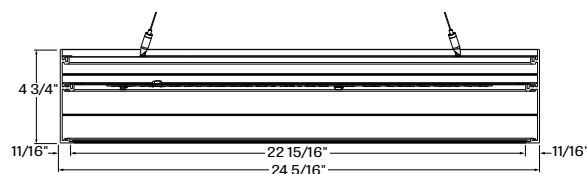
SPECIFY				5WAC36	SPECIFY STANDARD FINISH	
COLOR TEMP.	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	POWER CORD COLOR	FINISH
27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V	D1 - 1% 0-10V DA - DALI LTEA2W - Lutron 1% - 2 wire FP 120V LDE1 - Lutron Hi-lume 1% Eco LDE5 - Lutron 5% EcoSystem	1 - 1 circuit +EB - Emergency battery pack +GTD - Generator transfer device	5WAC36 - Powe 5" white canopy (36" aircraft cable) <a href="#">For all other options refer to our Pendant Mounting Guide</a>	BPC - Black power cord WPC - White power cord	W - Matte white AL - Aluminum BK - Black RAL 1028 - Yellow RAL 2004 - Orange RAL 3020 - Red RAL 4010 - Magenta RAL 5002 - Blue RAL 6018 - Green CF# - Custom finish specify RAL#

See page 3 for ordering code detailed information

**OPTION**

FU - Fuse

### CROSS SECTION



PCROPD + FH - Pop Color Round Pendant with flush lens



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

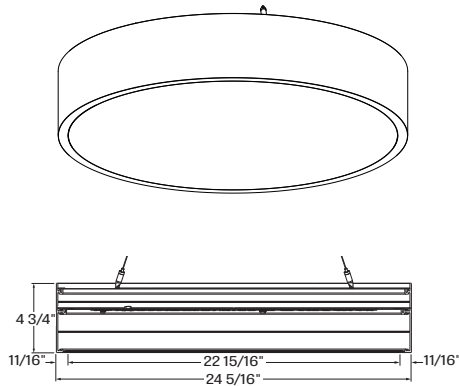
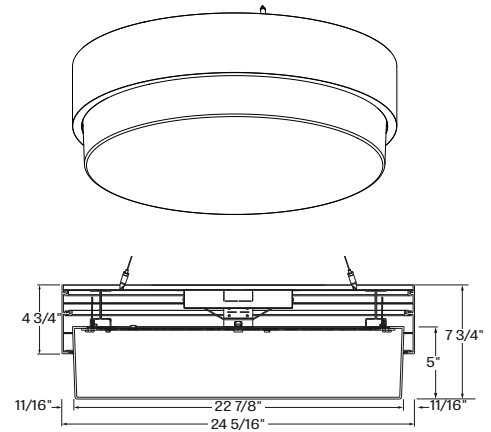
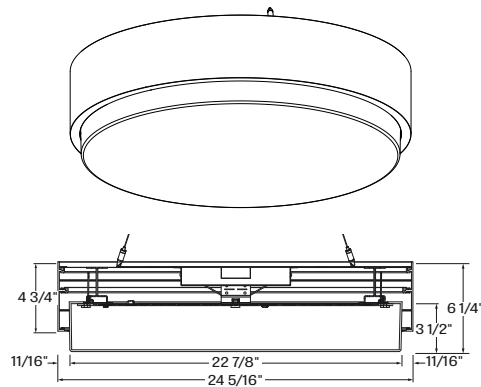
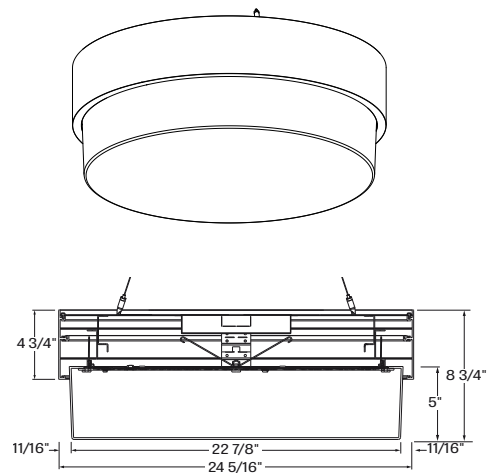
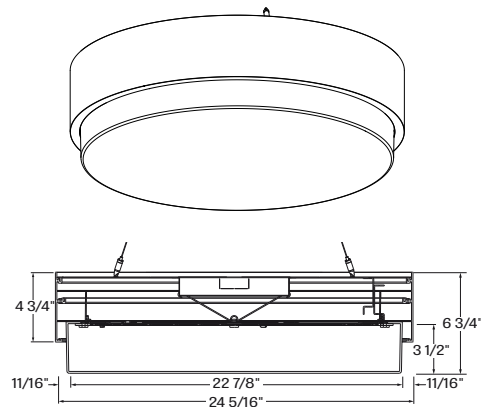
**Catalog Number:**

PCROPD-24-ULO-FH-LED-80-4500-35-VOLT-  
D1-1-5WAC36-WPC-STANDARD FINISH

Notes:

**Type:****PL-2**

LGNW21-81871

**POP COLOR ROUND 24 LED****PENDANT DIRECT****POP COLOR FH - FLUSH****POP COLOR 3D - 3" DROP****POP COLOR 1D - 1" DROP****POP COLOR 4D - 4" DROP****POP COLOR 2D - 2" DROP**

POPCOLOR24-ROUND-PENDANT-SPEC-REV1

Page: 2 / 5

December 24, 2020

www.lumenwerx.com (T) 514-225-4304 (F) 514-931-4862 © All rights are reserved to Lumenwerx ULC.  
Lumenwerx ULC. reserves the right to change or modify product specifications without notification





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

PCROPD-24-ULO-FH-LED-80-4500-35-VOLT-  
D1-1-5WAC36-WPC-STANDARD FINISH

**Notes:****Type:****PL-2**

LGNW21-81871

# POP COLOR ROUND 24 LED



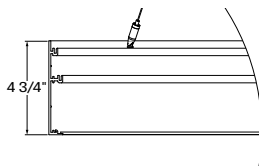
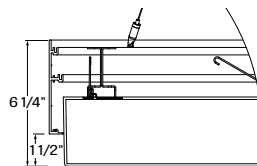
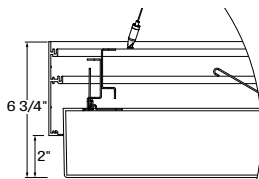
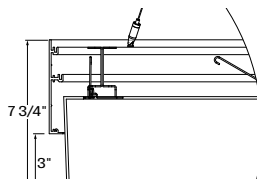
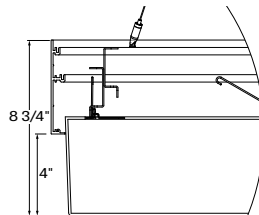
## PENDANT DIRECT

**OPTIC**

**Uniform Efficiency Lambertian Optic (ULO)** - Made of formed impact modified white PMMA, the optic provides an even light distribution with up to 88% transmission. Its unique enclosed shell design protects LEDs against Electrostatic Discharge and dust while its back surface project a soft glow on the mounting surface.

**DROP LENS**

Pop Color Round 24 pendant is available in 5 lens configurations.

**PCROPD + FH** - Flush lens**PCROPD + 1D** - 1" drop lens**PCROPD + 2D** - 2" drop lens**PCROPD + 3D** - 3" drop lens**PCROPD + 4D** - 4" drop lens**LIGHT SOURCE**

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.

All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

**PERFORMANCE AT 4000K**

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	4000K	23	2500	109
Medium output	4000K	33.5	3500	105
High output	4000K	44.5	4500	101

**ELECTRICAL**

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency > 84%, PF > 0.9, THD < 20%. Other specifiable options include DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

**EMERGENCY**

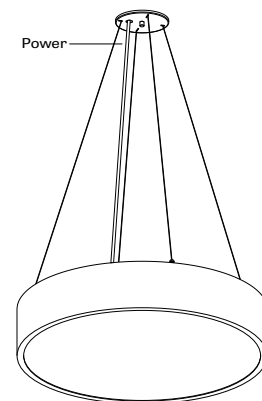
Factory installed long life high temperature recyclable Ni-Cad battery pack with test switch and charge indicator; minimum of 90 minutes operation, up to 1300 lumens (25°C) emergency lighting output. Recharge time of 24 hours.

**MOUNTING OPTIONS**

Fixtures are pendant-mounted, using aircraft cables. Unless otherwise specified, Lumenwerx provides the following hardware:

**For cable-mounted fixtures** - 5WAC36, 5" white canopy with a 36" cable.

[For all other options, see our website for a detailed Pendant Mounting Guide](#)





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

PCROPD-24-ULO-FH-LED-80-4500-35-VOLT-  
D1-1-5WAC36-WPC-STANDARD FINISH

Notes:

**Type:****PL-2**

LGNW21-81871

## POP COLOR ROUND 24 LED

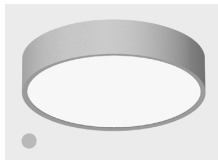
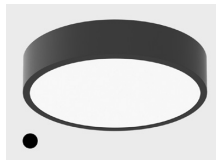


### PENDANT DIRECT

**FINISH**

**Interior** - 95% reflective, matte white powder coating

**Exterior** - Side trim is offered in a range of vibrant color powder coating.

**W** - Matte white**AL** - Aluminum**BK** - Black**RAL 1028** - Yellow**RAL 2004** - Orange**RAL 3020** - Red**RAL 4010** - Magenta**RAL 5002** - Blue**RAL 6018** - Green**CONSTRUCTION**

**Housing** - Rolled and seamlessly welded aluminum extrusion .125in thick, wide variety of colored powder coating

**Diffuser** - Uniform Lambertian Optic, thermoformed impact modified acrylic, completely enclosed

**WEIGHT**

**RD 24 Flush, 1D, 2D** - 16.26lbs - 7.39kg

**RD 24 3D, 4D** - 17.16lbs - 7.8kg

**CERTIFICATIONS**

**ETL** - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

**WARRANTY**

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

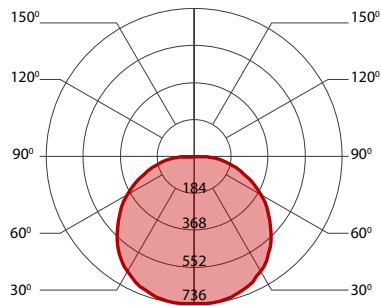
**Catalog Number:**

PCROPD-24-ULO-FH-LED-80-4500-35-VOLT-  
D1-1-5WAC36-WPC-STANDARD FINISH

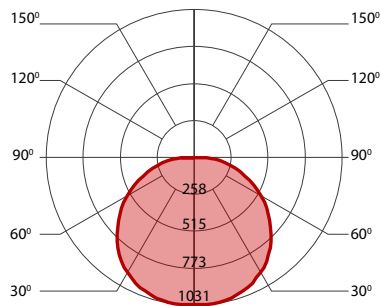
Notes:

**Type:****PL-2**

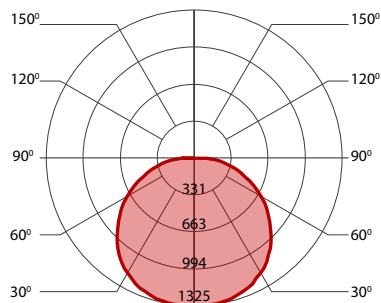
LGNW21-81871

**POP COLOR ROUND 24 LED****PENDANT DIRECT****2500 LUMEN AT 80CRI - LOW OUTPUT****PERFORMANCE**

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	2700K	25	2500	100
Low output	3000K	24.5	2500	102
Low output	3500K	23.5	2500	106
Low output	4000K	23	2500	109

**3500 LUMEN AT 80CRI - MEDIUM OUTPUT****PERFORMANCE**

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Medium output	2700K	36.5	3500	96
Medium output	3000K	35.5	3500	98
Medium output	3500K	34.5	3500	102
Medium output	4000K	33.5	3500	105

**4500 LUMEN AT 80CRI - HIGH OUTPUT****PERFORMANCE**

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
High output	2700K	48.5	4500	93
High output	3000K	47.5	4500	95
High output	3500K	46	4500	98
High output	4000K	44.5	4500	101



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

J-T33XL-VENUS-LED-STANDARD  
FINISH-L

Notes:

**Type:**

**PL-6**

LGNW21-81871



**BESA** LIGHTING

## VENUS

120V PENDANTS

location:  
**DAMP**

### SPECIFICATIONS:

#### DESCRIPTION

Cord-hung, cable-hung or stem-mount pendant with corrugated cardboard shade and removable white acrylic shield.

#### LAMPING

**LED:** 9W Replaceable source, 120V, dimmable, 90+ CRI, 3000°K CCT, 800 lumens, 25,000 hours. Lamp included.

#### SHADE

Shade shall be of corrugated cardboard material and includes a removable white acrylic shield. 17.75" Dia. x 7.5" H

#### SUSPENSION

**Cord-hung:** 10' SVT-type cord, complete with 5" decorative sleeve at the socketholder. Jacket coordinates with metal finish. Plated stamped steel construction. Bronze or Satin Nickel. See next page for multilight options.

**Stem-mount:** 4 connectable stem sections (3", 6", 12" and 18" lengths) plus telescoping piece for up to 3" adjustment, 10' max. 5" Dia. canopy (with swivel) and stem sections are plated steel. Bronze or Satin Nickel.

#### MOUNTING

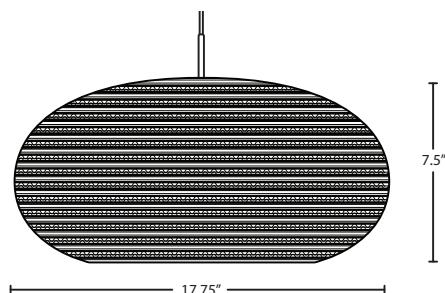
Installs directly to a 4" octagonal ceiling box. Suitable for sloped ceilings.

#### LABELS

UL or ETL Listed. Suitable for Dry Locations (interior use only). Consult factory concerning lower wattage labeling for energy requirements.



VENUS



#### Project Information:

#### For ordering information, see next page

All dimensions provided are nominal.  
Allowance must be made for dimensional tolerance in handcrafted glasses.

REV 12/18



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

J-T33XL-VENUS-LED-STANDARD FINISH-L

Notes:

**Type:**

**PL-6**

LGNW21-81871



**BESA LIGHTING**

**VENUS**

120V PENDANTS

**ORDERING:**

CONNECTION	SHADE OPTIONS	LAMP OPTIONS	METAL FINISH	OPTIONS
Pendant Fixtures <b>1JC</b> Dome Canopy <b>1JT</b> Flat Canopy	<b>VENUS</b> Venus	<b>LED 9W LED 120V</b> dimmi <b>ble</b>	<b>BR</b> Bronze <b>SN</b> Satin Nickel	<b>L</b> 15' cord <b>LW</b> Low wattage labeling

Stem Fixtures  
**1TT** Flat Canopy

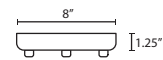
Multi light (pg. 11)  
**J** For Multi light Canopy



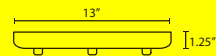
Multi-light Canopies Available, see page 11

**Ex. 1JT-VENUS-LED-SN**

Venus Pendant,  
Satin Nickel Finish

**MULTIPOINT CANOPY OPTIONS:****T33X 3 LIGHT ROUND CANOPY**

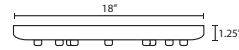
- Suitable for sloped ceilings
- Bronze or Satin Nickel
- 10" Dia. shades MAX, with staggered heights

**T33XL 3 LIGHT LARGE ROUND CANOPY**

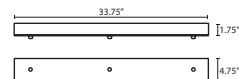
- Suitable for sloped ceilings
- Bronze or Satin Nickel
- 16" Dia. shades MAX, with staggered heights

**T36X 6 LIGHT ROUND CANOPY**

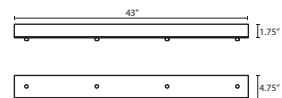
- Suitable for sloped ceilings
- Bronze or Satin Nickel
- 10" Dia. shades MAX, with staggered heights

**T39X 9 LIGHT ROUND CANOPY**

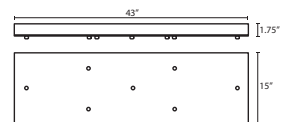
- Suitable for sloped ceilings
- Bronze or Satin Nickel
- 10" Dia. shades MAX, with staggered heights

**T33V 3 LIGHT BAR CANOPY**

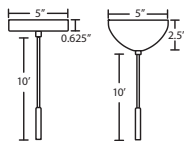
- Suitable for sloped ceilings
- Bronze or Satin Nickel
- 20" Dia. shades MAX, with staggered heights

**T34V 4 LIGHT BAR CANOPY**

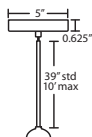
- Suitable for sloped ceilings
- Bronze or Satin Nickel
- 20" Dia. shades MAX, with staggered heights

**T37V 7 LIGHT BAR CANOPY**

- Suitable for sloped ceilings
- Bronze or Satin Nickel
- 14" Dia. shades MAX, with staggered heights

**PENDANT OPTIONS:****1JT / 1JC / J MONOPOINT PENDANT CANOPY**

- Flat (1JT) or Dome (1JC) Canopy styles. Dome style allows adjustment without cutting cord.
- "J" option is pendant less canopy for multipoint canopy (options to the right)
- Suitable for sloped ceilings
- Cord: 10' SVT, 5" sleeve at socketholder (V Series utilizes SJT-type)
- Bronze or Satin Nickel

**1TT STEM PENDANT**

- Swivel at canopy, suitable for sloped ceilings
- Includes telescoping section plus 4 connectable stem sections, (1x 3", 1x 6", 1x 12", 1x 18"), 10" max
- Bronze or Satin Nickel

**ACCESSORIES:****ADDITIONAL STEM SECTIONS:**

Additional connecting stems are available to increase overall length, up to 10' max. Telescoping adjustable section allows up to 3" movement.

<b>T20A-SN</b> or <b>T20A-BR</b>	Adj. Section
<b>T203-SN</b> or <b>T203-BR</b>	3" Section
<b>T206-SN</b> or <b>T206-BR</b>	6" Section
<b>T212-SN</b> or <b>T212-BR</b>	12" Section
<b>T218-SN</b> or <b>T218-BR</b>	18" Section

**LONGER CORD LENGTHS:**

Longer cord length of 15' available. Add an "L" to the end of the item number, i.e. 1JC-169707-SNL.

**LOW WATTAGE LABELING:**

Incandescent fixture supplied with 16 watt relamp label. Add an "LW" to the end of the item number, i.e. 1JC-169707-SN-LW.

**CORD SLEEVES:**

If concealing the cord is desired, order our 0.25" dia. metal sleeves. Each sleeve is 18" long and may be field cut.

<b>T118-SN</b>	Satin Nickel
<b>T118-BR</b>	Bronze

**STEMHOOKS:**

Suspension hooks allow cord drops to be placed wherever desired. Suitable for sloped ceilings.

<b>T103BR</b>	Bronze
<b>T103SN</b>	Satin Nickel

**HOW TO ORDER A MULTILIGHT FIXTURE**

Order your canopy with the selected 120V multi light pendants (indicated by "B" or "J" prefix) for the complete fixture:

**Example: 1x T33X-SN (3 Light Round Canopy)**

**1x J-VENUS-SN (Venus Pendant)**

**1x J-VENUS-SN (Venus Pendant)**

**1x J-VENUS-SN (Venus Pendant)**



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

LEDP-22-9WH-30-30W-2

Notes:

**Type:****RL-1**

LGNW21-81871

**FORUM PANEL**

1900-6930 Lumens, 20-50W, Color Selectable  
Track, Surface & Suspended

**Description**

The FORUM panel lights are designed to provide an optimal and modern alternative from traditional troffers. Elegantly designed for uniform light across the entire panel with low glare and shadows. Suitable for use in commercial and residential applications.

**Features****Body**

The LED panel light features a lightweight aluminum frame, designed to prevent light leakage. The frame houses three layers, LED chips, a light guide and an opal PMMA lens for soft illumination.

**LED Characteristics**

Bright LED modules that maintains uniform intensity producing up to 6,930 lumens<sup>1</sup>; with a typical CRI of 80+. Field changeable CCTs with Classic (3000 K, 3500 K and 4000 K) or high CCT (4000 K, 5000 K and 6000 K) color temperatures, as well as a white tunable (3000 K ~ 4000 K or 4000 K ~ 6000 K) option.

**Dimming**

100%-10% dimming capability. This fixture is compatible with industry

standard 0-10V dimmers (contact factory for listing of compatible dimmers).

**Beam Spread**

The fixture lens provides 110° beam spread.

**Mounting**

Easy mounting in T-bar ceilings with standard dimensions.

**LED Driver**

Liteline proprietary driver technology available in 120-347V, 50 / 60Hz input. Driver power factor is 0.95 min with less than 20% THD. cULus listed Class 2 Class P driver enclosed with four 1/2" trade knockouts suitable for branch wiring (2 in and 2 out) #12 AWG. NEMA 410 Compliant.

**Optional Occupancy Sensor**

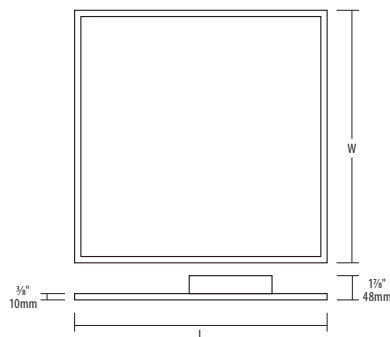
The microwave detector provides occupancy/motion detection with simple adjustment of the detection range, time out and switching light levels (step-dimming). The discrete detector is integrated into the luminaire. This design solution also helps to maximize energy savings and enhance the user experience, whilst ensuring compliance with all relevant safety regulations.

**Operating Temperature**

-20°C~40°C (-4°F~104°F)

**Environment**

- For indoor use only.
- Suitable for damp locations.
- I.C. rated.

**Technical Drawings**

Size	Length (L)	Width (W)
1'x1'	11 3/4" (299mm)	11 3/4" (299mm)
1'x2'	23 3/4" (603mm)	11 3/4" (299mm)
1'x4'	47 3/4" (1213mm)	11 3/4" (299mm)
2'x2'	23 3/4" (603mm)	23 3/4" (603mm)
2'x4'	47 3/4" (1213mm)	23 3/4" (603mm)
20"x60"	59 3/4" (1518mm)	19 3/4" (502mm)
30"x30"	29 3/4" (756mm)	29 3/4" (756mm)
30"x60"	59 3/4" (1518mm)	29 3/4" (756mm)

**Lumens Chart**

Size	Wattage	Color Temp					
		Classic (LEDP)			High CCT (LEDPH)		
		3000 K	3500 K	4000 K	4000 K	5000 K	6000 K
1'x1'	20W	1,900	2,100	2,050	2,000	2,210	2,100
1'x2'	30W	2,900	3,150	3,050	3,470	3,840	3,680
1'x4'	20W	1,980	2,190	2,330	2,210	2,310	2,260
	30W	3,100	3,420	3,190	3,310	3,470	3,390
	40W	4,210	4,660	4,350	4,410	4,620	4,520
2'x2'	20W	2,590	2,860	2,780	2,310	2,520	2,370
	30W	3,490	3,860	3,750	3,470	3,780	3,550
	40W	4,390	4,850	4,720	4,620	5,040	4,730
2'x4'	30W	3,300	3,600	3,430	3,850	4,160	3,910
	40W	4,810	5,240	4,860	5,130	5,550	5,210
	50W	6,320	6,890	6,580	6,410	6,930	6,510
20"x60"	30W	3,340	3,550	3,610	—	—	—
	40W	4,650	4,990	5,020	—	—	—
	50W	5,710	6,200	6,200	—	—	—
30"x30"	20W	2,160	2,290	2,320	—	—	—
	30W	3,210	3,780	3,470	—	—	—
	40W	4,330	4,980	2,690	—	—	—
30"x60"	30W	3,340	3,550	3,610	—	—	—
	40W	4,650	4,990	5,020	—	—	—
	50W	5,710	6,200	6,200	—	—	—

<sup>1</sup> Consult "Lumens Chart" for actual lumen values. <sup>2</sup> Consult "Lumens Chart" for wattage options per size. <sup>3</sup> Only on certain models for 1'x4', 2'x2' and 2'x4', consult "DLC Qualified Models" chart for specific models.

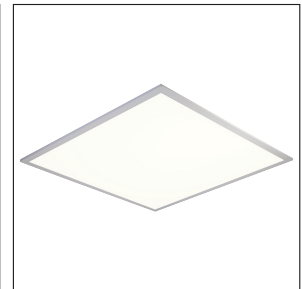
Liteline Corporation  
Copyright © 2021  
All rights reserved.

Telephone  
416.996.1856  
1.866.730.7704

Fax  
905.709.5255  
1.888.738.9736

[LITELINE.COM](http://LITELINE.COM)

Job Information		
Project Name		Type
Location		
Quantity		Date
Contact/Phone		
Notes		


**SPECIFICATION**

Application	Drop-Ceiling / Recessed / Flushmount / Suspension / Trimless
Approved Location	Damp
Beam Angle	110°
CCT (for LEDP)	3000 K / 3500 K / 4000 K
CCT (for LEDPH)	4000 K / 5000 K / 6000 K
Certification	cETLus
Class II	Yes
Color	WH
CRI	80+
Dimming	Yes
Dimming Tech	0-10V
Input	120-347V AC
LM79	Yes
LM80	Yes
Lumens	Up to 6,930 <sup>1</sup>
Power Factor	>0.95
Projected Life	70% @ 50,000 hrs
Warranty	7 Years
Wattage	20W / 30W / 40W / 50W <sup>2</sup>




**LUTRON.**




Submitted by The Lighting Group LLCChris Hamaker		<b>Catalog Number:</b> LEDP-22-9WH-30-30W-2	<b>Type:</b>  <b>RL-1</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

### Ordering Guide – Base Model

CCT Style	Size	Color	Options
 Highlighted option denotes QuickShip.	<b>LEDP</b> : Classic <b>LEDPH</b> : High CCT <sup>1</sup>	<b>11</b> : 1'x1' <b>12</b> : 1'x2' <b>14</b> : 1'x4' <b>22</b> : 2'x2' <b>24</b> : 2'x4' <b>26</b> : 20"x60" <sup>2</sup> <b>33</b> : 30"x30" <sup>2</sup> <b>36</b> : 30"x60" <sup>2</sup>	<b>WH</b> : White <b>BK</b> : Black  Leave blank for no options <b>PE</b> : PoE, No Driver <b>EM</b> : Emergency Backup <sup>4</sup> <b>WP</b> : 6' 5-wire whip <b>EW</b> : Emergency Backup and 6' 5-wire whip <b>VE</b> : Lutron Vive <sup>5</sup>

### Ordering Guide – Non-Standard Drivers

CCT Style	Size	Color	Options <sup>3</sup>	CCT	Wattage <sup>8</sup>	Voltage
 Highlighted option denotes QuickShip.	<b>LEDP</b> : Classic <b>LEDPH</b> : High CCT <sup>1</sup>	<b>WH</b> : White <b>BK</b> : Black	<b>D</b> : Dali <b>D2</b> : Dali 2.0 <b>EN</b> : CLM Encillum by OSRAM <b>L</b> : Lutron Hi-Lume <sup>®</sup> 1% EcoSystem <sup>9</sup> <b>M</b> : Lutron Hi-Lume <sup>®</sup> 1% 2-Wire <sup>9</sup> <b>MT</b> : White Tunable Moons Dual series, Dual 0-10V <b>OS</b> : Occupancy Sensor <sup>4</sup> <b>QX</b> : Casambi <b>T</b> : White Tunable Lutron T-series 1% 2-channel <sup>9</sup>	<b>35</b> : 3500 K <sup>5</sup> <b>40</b> : 4000 K <sup>5,6</sup> <b>50</b> : 5000 K <sup>6</sup> <b>60</b> : 6000 K <sup>6</sup> <b>TW</b> : White Tunable <sup>7</sup>	<b>2</b> : 20W <b>3</b> : 30W <b>4</b> : 40W <b>5</b> : 50W	<b>1</b> : 120V <b>2</b> : 120-277V <b>3</b> : 347V

#### Notes:

<sup>1</sup> High CCT (4000 K / 5000 K / 6000 K). <sup>2</sup> Not available in high CCT (LEDPH) CCT Style. <sup>3</sup> Must Select CCT, Wattage and Voltage. <sup>4</sup> Options EM and OS not available for 1'x1' size. <sup>5</sup> Available only for CCT Style LEDP. <sup>6</sup> Available only for CCT Style LEDPH. <sup>7</sup> Only available with Options "D2", "MT" and "T". <sup>8</sup> Consult "Lumens Chart" for wattage options per size. <sup>9</sup> Only available in 120-277V. QuickShip option is available on orders of 100 pieces or less, and will ship within 7 business days. Options must be selected from QuickShip section to qualify. For additional options consult your Lintline representative. All trademarks are the property of their respective owners. Lutron is a trademark of Lutron Electronics Co., Inc. Due to our continued efforts to improve our products, product specifications are subject to change without notice.


### DLC Qualified Models

The FORUM panel can be commissioned on-site in a wide variety of colour temperature, wattage and voltage configurations. To qualify for DLC 5.0, applications must be commissioned with an approved colour temperature, power and voltage combination. The table below outlines complete DLC 5.0 qualified item numbers, energy-efficiency and performance requirements. To construct the model number for the specification application, refer to the following example.


























CCT Style	Size	Color Temperature	Wattage	Voltage
LEDP	24	WH - 30	30	120/277

Voltage	DLC 5.0 Premium		DLC 5.0 Standard	
	Classic	High Output	Classic	High Output
120 / 277V	LEDP-14-WH-35-20-120/277	LEDPH-14-WH-50-20-120/277	LEDP-14-WH-30-20-120/277	LEDPH-14-WH-40-20-120/277
	LEDP-22-WH-30-20-120/277	LEDPH-22-WH-40-20-120/277	LEDP-14-WH-35-30-120/277	LEDPH-14-WH-40-30-120/277
	LEDP-22-WH-35-20-120/277	LEDPH-22-WH-50-20-120/277	LEDP-14-WH-35-40-120/277	LEDPH-14-WH-40-40-120/277
	LEDP-22-WH-35-30-120/277	LEDPH-22-WH-50-30-120/277	LEDP-22-WH-30-30-120/277	LEDPH-14-WH-50-30-120/277
	LEDP-22-WH-35-40-120/277	LEDPH-22-WH-50-40-120/277	LEDP-22-WH-30-40-120/277	LEDPH-14-WH-50-40-120/277
	LEDP-24-WH-30-30-120/277	LEDPH-24-WH-40-30-120/277	LEDP-24-WH-30-40-120/277	LEDPH-22-WH-40-30-120/277
	LEDP-24-WH-35-30-120/277	LEDPH-24-WH-40-40-120/277	LEDP-24-WH-30-50-120/277	LEDPH-22-WH-40-40-120/277
	LEDP-24-WH-35-40-120/277	LEDPH-24-WH-40-50-120/277		
	LEDP-24-WH-35-50-120/277	LEDPH-24-WH-50-30-120/277		
		LEDPH-24-WH-50-40-120/277		
		LEDPH-24-WH-50-50-120/277		
347V	LEDP-22-WH-35-30-347	LEDPH-22-WH-50-30-347	LEDP-14-WH-35-30-347	LEDPH-14-WH-40-30-347
	LEDP-24-WH-35-40-347	LEDPH-24-WH-50-40-347	LEDP-14-WH-35-40-347	LEDPH-14-WH-40-40-347
	LEDP-24-WH-35-50-347	LEDPH-24-WH-50-50-347	LEDP-22-WH-30-30-347	LEDPH-14-WH-50-30-347
			LEDP-22-WH-30-40-347	LEDPH-14-WH-50-40-347
			LEDP-22-WH-35-40-347	LEDPH-22-WH-40-30-347
			LEDP-24-WH-30-40-347	LEDPH-22-WH-40-40-347



Submitted by The Lighting Group LLCChris Hamaker		Catalog Number: LEDP-22-9WH-30-30W-2	Type: <b>RL-1</b>
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	Notes:	LGNW21-81871

## Accessories

	<b>LED-CLIPS</b> Recessed mounting clips for use with FORUM LED panels.		<b>LED-MUD-11</b> Trimless adapter for use with 1'x1' FORUM panels. Includes 2 recessed clips with 4 screws.		<b>XTLR-11-WH-FKT</b> Surface mount kit for use with 1'x1' FORUM panels. Consult factory for additional colors.
	<b>LED-PDW1-11</b> 1/2" PrecisionPro trimless drywall adapter, 20"x20".		<b>LED-MUD-12</b> Trimless adapter for use with 1'x2' FORUM panels. Includes 4 recessed clips with 8 screws.		<b>XTLR-12-WH-FKT</b> Surface mount kit for use with 1'x2' FORUM panels. Consult factory for additional colors.
	<b>LED-PDW5-11</b> 3/8" PrecisionPro trimless drywall adapter, 20"x20".		<b>LED-MUD-14</b> Trimless adapter for use with 1'x4' FORUM panels. Includes 6 recessed clips with 12 screws.		<b>XTLR-14-WH-FKT</b> Surface mount kit for use with 1'x4' FORUM panels. Consult factory for additional colors.
	<b>LED-PDW1-12</b> 1/2" PrecisionPro trimless drywall adapter, 20"x32".		<b>LED-MUD-22</b> Trimless adapter for use with 2'x2' FORUM LED panels. Includes 4 recessed clips with 8 screws.		<b>XTLR-22-WH-FKT</b> Surface mount kit for use with 2'x2' FORUM panels. Consult factory for additional colors.
	<b>LED-PDW5-12</b> 3/8" PrecisionPro trimless drywall adapter, 20"x32".		<b>LED-MUD-24</b> Trimless adapter for use with 2x4 FORUM LED panels. Includes 6 recessed clips with 12 screws.		<b>XTLR-24-WH-FKT</b> Surface mount kit for use with 2'x4' FORUM panels. Consult factory for additional colors.
	<b>LED-PDW1-14</b> 1/2" PrecisionPro trimless drywall adapter, 20"x56".				<b>PWF-XTLR</b> Power feed kit for FORUM surface mount kit.
	<b>LED-PDW5-14</b> 3/8" PrecisionPro trimless drywall adapter, 20"x56".				<b>XTLS-120</b> 120" Aircraft cable. Power feed not included.
	<b>LED-PDW1-22</b> 1/2" PrecisionPro trimless drywall adapter, 32"x32".				<b>XTLS-120-5SJT</b> 120" Suspension kit. Aircraft cable with canopy and power feed.
	<b>LED-PDW5-22</b> 3/8" PrecisionPro trimless drywall adapter, 32"x32".				<b>XTLS-120Y-5SJT</b> 120" Y-Suspension kit. Aircraft Y-cable with canopy and power feed.
	<b>LED-PDW1-24</b> 1/2" PrecisionPro trimless drywall adapter, 32"x56".				
	<b>LED-PDW5-24</b> 3/8" PrecisionPro trimless drywall adapter, 32"x56".				



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 10FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT  
Notes:

**Type:****RL-2-10'**

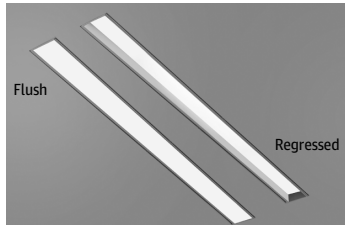
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear



Slot 2 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 2 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.

**Type:****Project:****Catalog Number:****DO NOT TYPE HERE. Autopopulated field.****Specification Features (continued on page 2)****Housing**

Nominal 2" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**

Painted high reflectance matte white powder coat.

**Reflector**

Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Shielding**

Flush Lens: Snap-in 90% transmissive satin acrylic lens.

Regressed Lens: Lay-in 90% transmissive satin acrylic lens.

**Mounting**

Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

**Certification**

CSA tested to UL 1598 standards. Optional Damp or Wet location listings available, see ordering tree. This product is IC rated.

**Warranty**

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

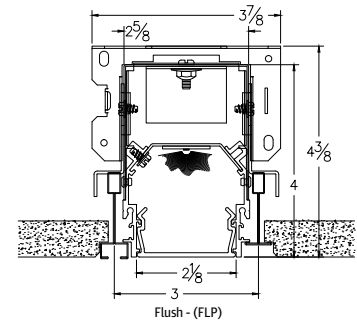
**Fixture Performance - SL2L\***

Lumens Output	400 LMF		600 LMF**		800LMF**		1000LMF	
Fixture Style	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	234	308	404	533	534	705	654	862
Input Watts/FT	4	4	6	6	8	8	11	11
Lumen/Watt	68	89	69	91	67	88	62	82

\* CCT (35K)

\* Consult factory for customized lumen output and wattage

\*\*Based on calculated values

**Technical Drawing**

eldoLED  
your product | our drive

**LED Components**

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

**LED Life**

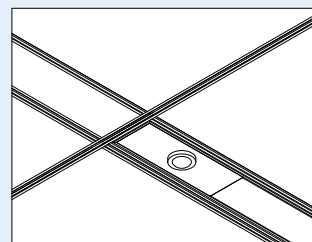
Rated 65,000 hours (L80) at 25 °C ambient temperature.

**Color Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.



Occupancy Sensor (PDT) and/or Photocell (ADC)


**Integrated Controls**

Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

**Photometry**

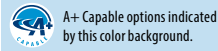
For photometric information refer to [www.marklighting.com](http://www.marklighting.com).



Submitted by The Lighting Group LLCChris Hamaker  <b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Catalog Number:</b> SL2L LOP 10FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT Notes:	<b>Type:</b> <b>RL-2-10'</b> LGNW21-81871
---	--	---

# MARK ARCHITECTURAL LIGHTING™

## Slot 2 LED Recessed Linear



### Ordering

Example: SL2L LOP 4FT FLP FL 80CRI 30K 600LMF DARK 277 EC NLIGHT

Series		Linear Length Plan		Total Run Length		Fixture Style		Ceiling Trim		Direct Light Source Color Rendering	
SL2L Slot 2 LED LOP Linear Recessed		Linear Optimized Plan		2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6'		7FT 7' 8FT 8' 9FT 9' 10FT 10'		RFP <sup>1,3</sup> Regressed Lens FLP <sup>2</sup> Flush Lens		FL <sup>4</sup> 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB <sup>4</sup> Trimless (sheetrock) WFL Perimeter Mount, 5/8" Flange (Sheetrock) WTG 9/16" Flat or Inverted Tee, Perimeter Mount	
Direct LED Color Temp		Direct LED Light Output		Direct Distribution		Minimum Dimming Level		Voltage		Finish	
27K* 2700K 30K 3000K 35K 3500K 40K 4000K 50K* 5000K		400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT		(blank) Standard Distribution WW <sup>5</sup> Wall Wash		NODIM Non - Dim MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1% MIN5 <sup>6</sup> Constant current, dimming to 5% MIN10 <sup>15</sup> Constant current, dimming to 10%		120 120V 277 277V 347 <sup>7</sup> 347V		(blank) White, textured xxx/BLKT Black, textured xxx/SLVT Silver, textured xxx/RALTB <sup>8</sup> RAL paint finish	
		_LMF* <sup>9</sup> ## Lumens per FT (Limited to 300LMF to 1000LMF in 50LMF increments)								Emergency Options	
										(blank) No Emergency _E10WLCP <sup>8</sup> Number of 4ft Emergency Section(s) with battery pack _EC <sup>10</sup> # of Emergency Circuits	
Control Input		Primary Sensor <sup>12</sup>		Secondary Sensor <sup>12</sup>		Tertiary Zone		Options			
(blank) Non-dim <sup>11</sup> ZT 0 10V NLIGHT nLight enabled NLTAIR2 <sup>17</sup> nLight Air (Wireless Enabled) ECOD <sup>8,16</sup> Lutron Hi-Lume digital driver ECOD2 <sup>8,16</sup> Lutron Hi-Lume 2-wire (1% dimming) ECOD5 <sup>8,16</sup> Lutron 5-series digital driver (5% dimming) DALI <sup>19</sup> Dali		(blank) Single Zone, No Sensor NS Multi-zone, No Sensor Main Zone PDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor ADC <sup>13</sup> Daylight Dimming Sensor API <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor APD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors SNS Multi-zone, with no sensor in secondary zone SPDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor SADC <sup>13</sup> Daylight Dimming Sensor SAPI <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor SAPD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors TNS Multi-zone, with no sensor in tertiary zone		CP <sup>18</sup> Chicago Plenum USPOM US point of assembly WL <sup>3,9</sup> Wet Location Listing DPL Damp Location Listing PWS 6' Pre-Wire, 3/8" Diameter, 18 Gauge			

\* Requires longer lead time.

#### Notes

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location label not available with regressed lens, sensor options or PWS. Cannot be installed on vertical surfaces.
- Not intended for post sheetrock installation.
- Wall wash not available with RLP lens option.
- MIN5 requires ECOD5 Control Input. ECOD5 only available with MIN5 dimming.
- Not available with 2ft fixture sections or with E10WLCP, NLIGHT, sensors, or ECO options. Must select MIN1 option.
- Remote mounted, not available with CP option. Battery kit is not wet listed, but can be used with WL fixture if installed in a dry location. If with ZT & API, APD or NLTAIR2, only available in 7' or 8' units.
- Not available with ECOD, ECOD2 and ECOD5.
- Standard 4' EC section, defaults to end of run. 2ft, 3ft and 5ft powers entire fixture, 6ft powers 3ft EC section.
- Only available with NODIM option.
- Sensors not available with WW, NODIM driver, WL, RLP, downlights or 2' or 3' units. Not available with 347 & NLIGHT together. Default location for sensor is the left side of the fixture. For runs, the first fixture will include the sensor.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.
- MIN10 not available with 347, sensors, NLIGHT or NLTAIR2, requires ZT
- ECOD and ECOD2 not available with sensors, requires MIN1 dimming. Must use 120 volt for ECOD2.
- Must select MIN1 or DARK. Not available with RLP, WW, PDT, ADC or 347, DPL or WL. If with EC, cannot be on individual units, and on runs, the EC cannot be on the same section as NLTAIR2.
- CP not available with NLTAIR2.
- DALI is only available with DARK or MIN1. It is not available with sensors or downlights.

#### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 10FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:**

**RL-2-10'**

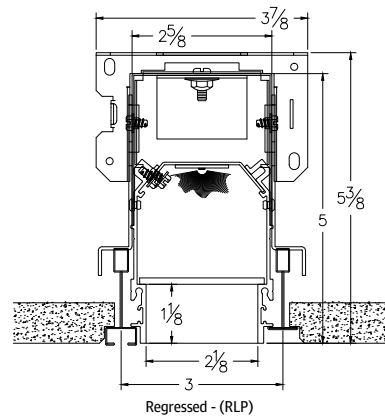
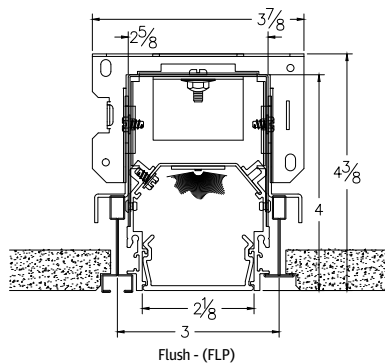
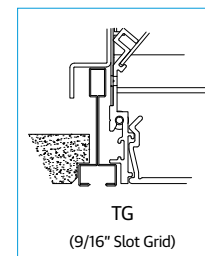
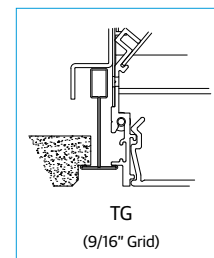
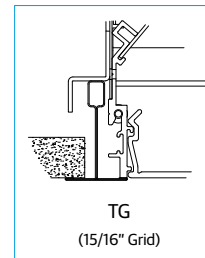
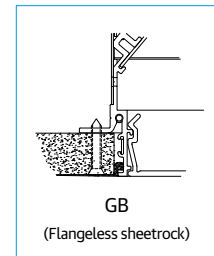
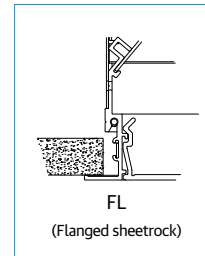
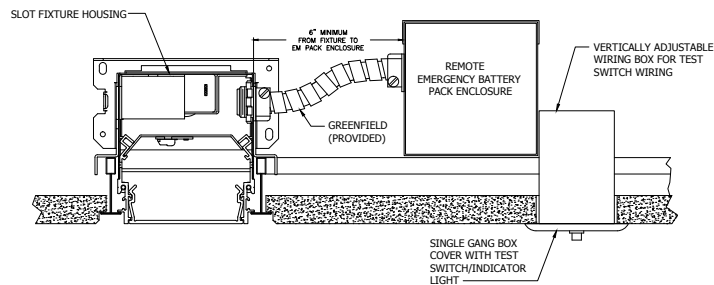
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear

**Technical Drawing****Ceiling Trim****Remote Emergency Battery Mounting****Notes**

- Delivers 700 lumens per 4FT length. Default location is the right side of fixture and end of run.
- Provided with 4FT of flexible conduit. Maximum of 25FT remote distance if extended. Extension provided by others.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 10FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-10'**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

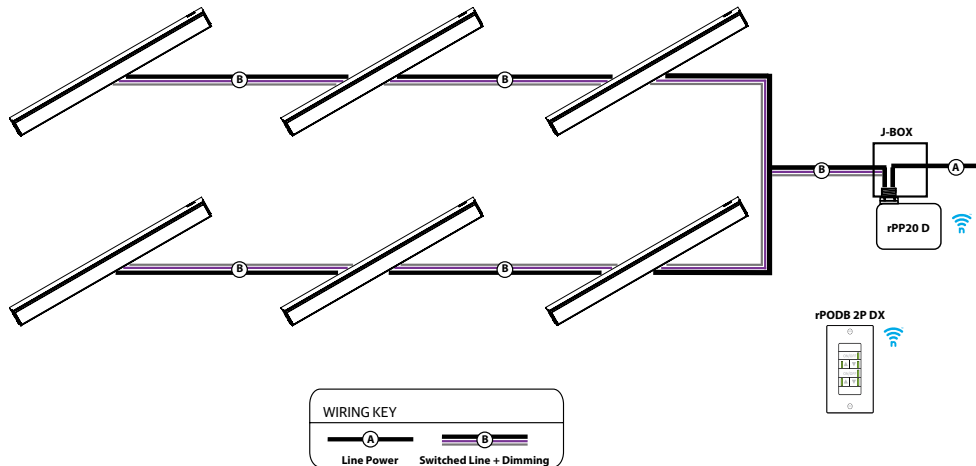
**Slot 2 LED**

Recessed Linear

**nLight Air Wireless**

To Make fixture NLTAIR2 compatible the following components are required:

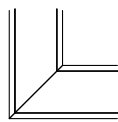
- 1) rpp20 D
- 2) rPODB 2P DX

**Continuous Runs**

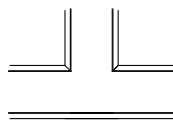
Slot 2 LED continuous rows can be configured in 1" increments.

**Run Patterns, Corners and Junction**

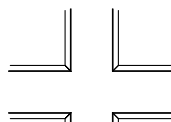
Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



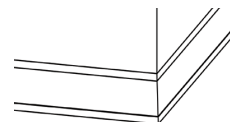
T Junction



X Junction



Inside Corner



Outside Corner

**Layout Sketch**

Please draw and configure your linear run below.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 10FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-10'**

LGNW21-81871

**MARK**

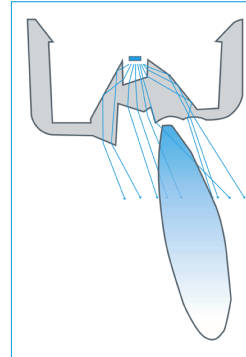
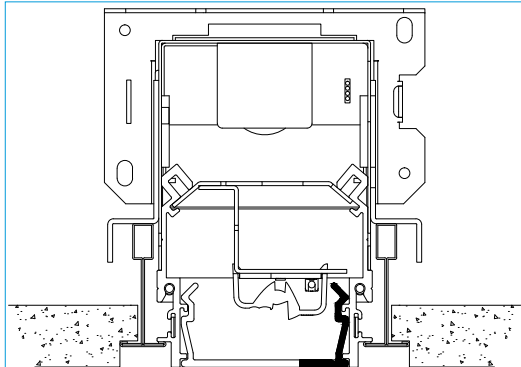
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

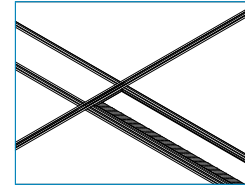
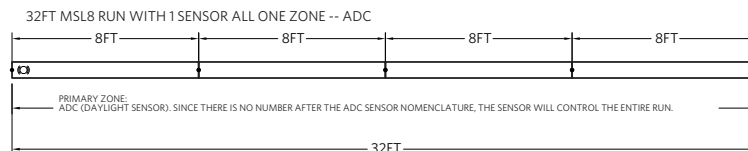
Recessed Linear

**OPTICS**

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Optional Wall Wash (WW)

**INTEGRATED SENSOR LAYOUT****Notes:**

- Only one sensor per zone

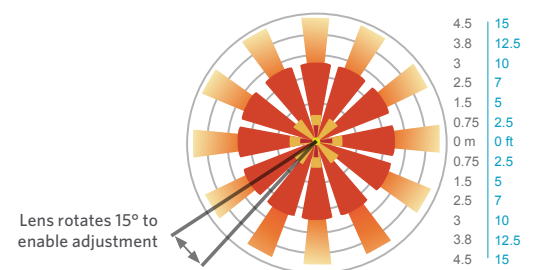
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

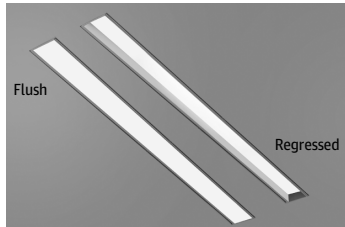
SL2L LOP 6FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT  
Notes:

**Type:****RL-2-6'**

LGNW21-81871

## MARK

### ARCHITECTURAL LIGHTING™



## Slot 2 LED

### Recessed Linear

Slot 2 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 2 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.

**Type:****Project:****Catalog Number:****DO NOT TYPE HERE. Autopopulated field.**

### Specification Features (continued on page 2)

**Housing**

Nominal 2" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**

Painted high reflectance matte white powder coat.

**Reflector**

Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Shielding**

Flush Lens: Snap-in 90% transmissive satin acrylic lens.

Regressed Lens: Lay-in 90% transmissive satin acrylic lens.

**Mounting**

Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

**Certification**

CSA tested to UL 1598 standards. Optional Damp or Wet location listings available, see ordering tree. This product is IC rated.

**Warranty**

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**Fixture Performance - SL2L\***

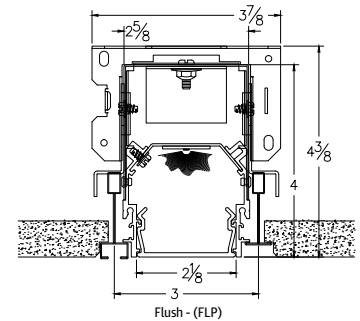
Lumens Output	400 LMF		600 LMF**		800LMF**		1000LMF	
Fixture Style	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	234	308	404	533	534	705	654	862
Input Watts/FT	4	4	6	6	8	8	11	11
Lumen/Watt	68	89	69	91	67	88	62	82

\* CCT (35K)

\* Consult factory for customized lumen output and wattage

\*\*Based on calculated values

### Technical Drawing



eldoLED  
your product | our drive

**LED Components**

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

**LED Life**

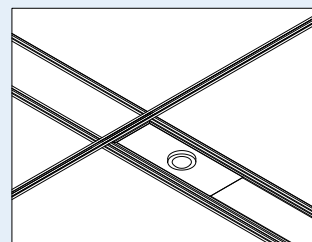
Rated 65,000 hours (L80) at 25 °C ambient temperature.

**Color Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.



Occupancy Sensor (PDT) and/or Photocell (ADC)


**Integrated Controls**

Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

**Photometry**

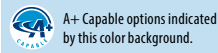
For photometric information refer to [www.marklighting.com](http://www.marklighting.com).



Submitted by The Lighting Group LLCChris Hamaker  <b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Catalog Number:</b> SL2L LOP 6FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT Notes:	<b>Type:</b> <b>RL-2-6'</b> LGNW21-81871
---	---	--

# MARK ARCHITECTURAL LIGHTING™

## Slot 2 LED Recessed Linear



### Ordering

Example: SL2L LOP 4FT FLP FL 80CRI 30K 600LMF DARK 277 EC NLIGHT

Series		Linear Length Plan		Total Run Length		Fixture Style		Ceiling Trim		Direct Light Source Color Rendering	
SL2L Slot 2 LED LOP Linear Recessed		Linear Optimized Plan		2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6'		RFLP <sup>1,3</sup> Regressed Lens FLP <sup>2</sup> Flush Lens		FL <sup>4</sup> 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB <sup>4</sup> Trimless (sheetrock) WFL Perimeter Mount, 5/8" Flange (Sheetrock) WTG 9/16" Flat or Inverted Tee, Perimeter Mount		80CRI 80 CRI 90CRI 90 CRI	
Direct LED Color Temp		Direct LED Light Output		Direct Distribution		Minimum Dimming Level		Voltage		Emergency Options	
27K* 2700K 30K 3000K 35K 3500K 40K 4000K 50K* 5000K		400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT _LMF* <sup>9</sup> ## Lumens per FT (Limited to 300LMF to 1000LMF in 50LMF increments)		(blank) Standard Distribution WW <sup>5</sup> Wall Wash		NODIM Non - Dim MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1% MIN5 <sup>6</sup> Constant current, dimming to 5% MIN10 <sup>15</sup> Constant current, dimming to 10%		120 120V 277 277V 347 <sup>7</sup> 347V		(blank) No Emergency _E10WLCP <sup>8</sup> Number of 4ft Emergency Section(s) with battery pack _EC <sup>10</sup> # of Emergency Circuits	
Control Input		Primary Sensor <sup>12</sup>		Secondary Sensor <sup>12</sup>		Tertiary Zone		Options			
(blank) Non-dim <sup>11</sup> ZT 0 10V NLIGHT nLight enabled NLTAIR2 <sup>17</sup> nLight Air (Wireless Enabled) ECOD <sup>16,18</sup> Lutron Hi-Lume digital driver ECOD2 <sup>16,18</sup> Lutron Hi-Lume 2-wire (1% dimming) ECOD5 <sup>16,18</sup> Lutron 5-series digital driver (5% dimming) DALI <sup>19</sup> Dali		(blank) Single Zone, No Sensor NS Multi-zone, No Sensor Main Zone PDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor ADC <sup>13</sup> Daylight Dimming Sensor API <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor APD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors SNS Multi-zone, with no sensor in secondary zone SPDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor SADC <sup>13</sup> Daylight Dimming Sensor SAPI <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor SAPD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors TNS Multi-zone, with no sensor in tertiary zone		CP <sup>18</sup> Chicago Plenum USPOM US point of assembly WL <sup>1,5</sup> Wet Location Listing DPL Damp Location Listing PWS 6' Pre-Wire, 3/8" Diameter, 18 Gauge			

\* Requires longer lead time.

#### Notes

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location label not available with regressed lens, sensor options or PWS. Cannot be installed on vertical surfaces.
- Not intended for post sheetrock installation.
- Wall wash not available with RLP lens option.
- MIN5 requires ECOD5 Control Input. ECOD5 only available with MIN5 dimming.
- Not available with 2ft fixture sections or with E10WLCP, NLIGHT, sensors, or ECO options. Must select MIN1 option.
- Remote mounted, not available with CP option. Battery kit is not wet listed, but can be used with WL fixture if installed in a dry location. If with ZT & API, APD or NLTAIR2, only available in 7' or 8' units.
- Not available with ECOD, ECOD2 and ECOD5.
- Standard 4' EC section, defaults to end of run. 2ft, 3ft and 5ft powers entire fixture, 6ft powers 3ft EC section.
- Only available with NODIM option.
- Sensors not available with WW, NODIM driver, WL, RLP, downlights or 2' or 3' units. Not available with 347 & NLIGHT together. Default location for sensor is the left side of the fixture. For runs, the first fixture will include the sensor.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.
- MIN10 not available with 347, sensors, NLIGHT or NLTAIR2, requires ZT
- ECOD and ECOD2 not available with sensors, requires MIN1 dimming. Must use 120 volt for ECOD2.
- Must select MIN1 or DARK. Not available with RLP, WW, PDT, ADC or 347, DPL or WL. If with EC, cannot be on individual units, and on runs, the EC cannot be on the same section as NLTAIR2.
- CP not available with NLTAIR2.
- DALI is only available with DARK or MIN1. It is not available with sensors or downlights.

#### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 6FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-6'**

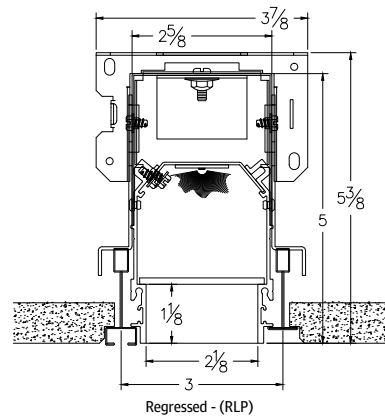
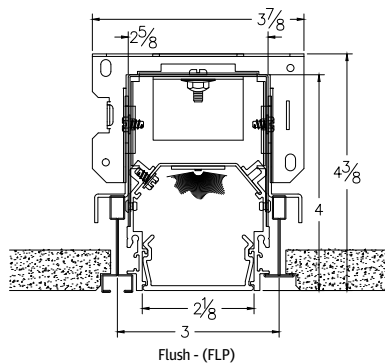
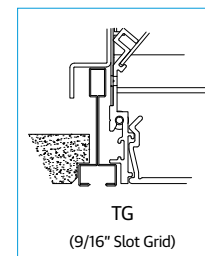
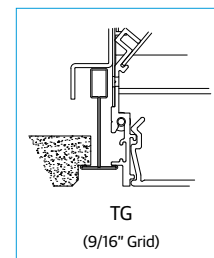
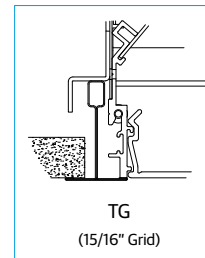
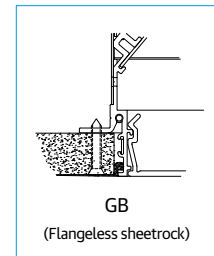
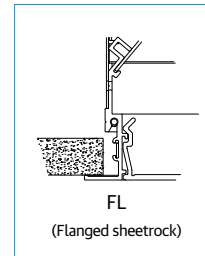
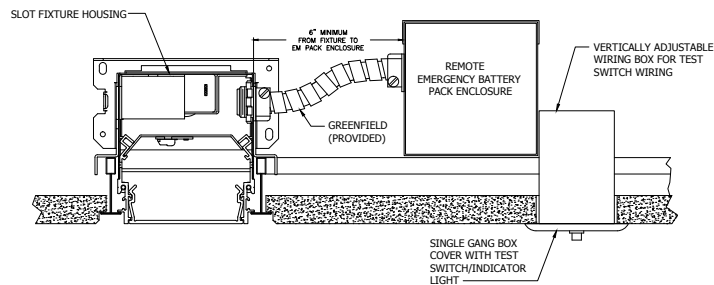
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear

**Technical Drawing****Ceiling Trim****Remote Emergency Battery Mounting****Notes**

- Delivers 700 lumens per 4FT length. Default location is the right side of fixture and end of run.
- Provided with 4FT of flexible conduit. Maximum of 25FT remote distance if extended. Extension provided by others.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 6FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-6'**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

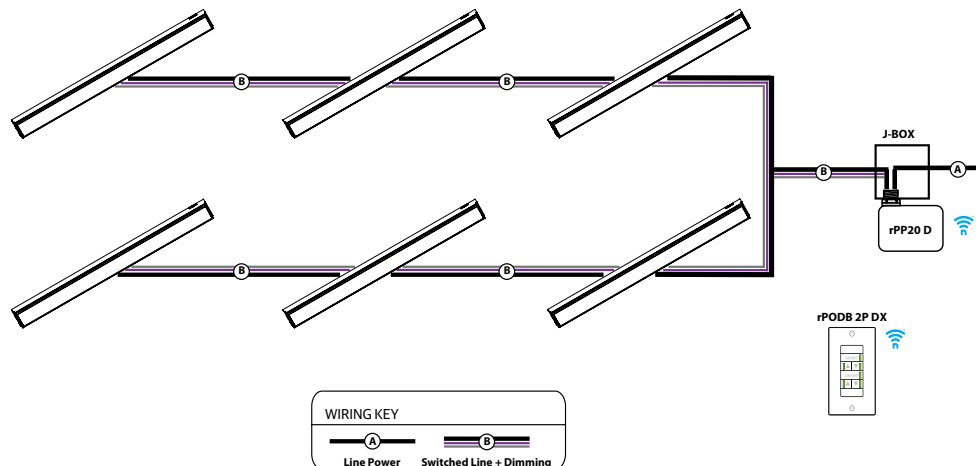
**Slot 2 LED**

Recessed Linear

**nLight Air Wireless**

To Make fixture NLTAIR2 compatible the following components are required:

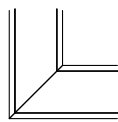
- 1) rpp20 D
- 2) rPODB 2P DX

**Continuous Runs**

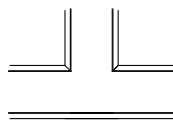
Slot 2 LED continuous rows can be configured in 1" increments.

**Run Patterns, Corners and Junction**

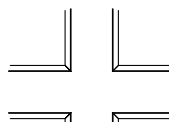
Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



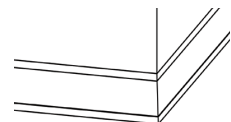
T Junction



X Junction



Inside Corner



Outside Corner

**Layout Sketch**

Please draw and configure your linear run below.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 6FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-6'**

LGNW21-81871

**MARK**

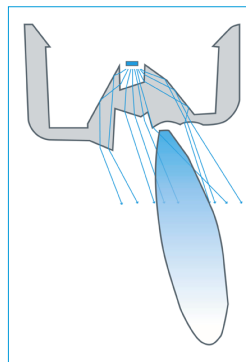
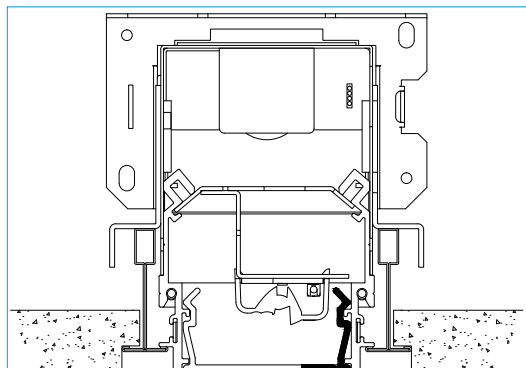
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

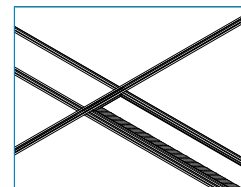
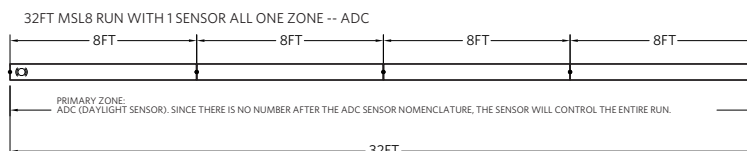
Recessed Linear

**OPTICS**

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Optional Wall Wash (WW)

**INTEGRATED SENSOR LAYOUT****Notes:**

- Only one sensor per zone

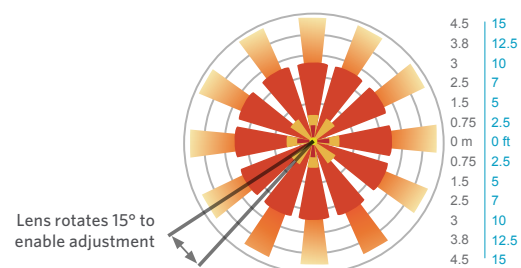
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

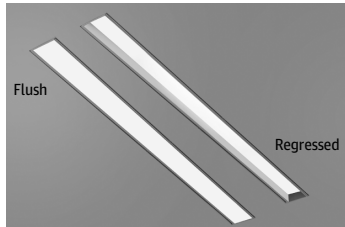
**Catalog Number:**

SL2L LOP 11FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT  
Notes:

**Type:****RL-2-11'**

LGNW21-81871

## MARK ARCHITECTURAL LIGHTING™



## Slot 2 LED Recessed Linear

Slot 2 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 2 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.

**Type:****Project:****Catalog Number:****DO NOT TYPE HERE. Autopopulated field.**

### Specification Features (continued on page 2)

**Housing**

Nominal 2" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**

Painted high reflectance matte white powder coat.

**Reflector**

Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Shielding**

Flush Lens: Snap-in 90% transmissive satin acrylic lens.

Regressed Lens: Lay-in 90% transmissive satin acrylic lens.

**Mounting**

Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

**Certification**

CSA tested to UL 1598 standards. Optional Damp or Wet location listings available, see ordering tree. This product is IC rated.

**Warranty**

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**Fixture Performance - SL2L\***

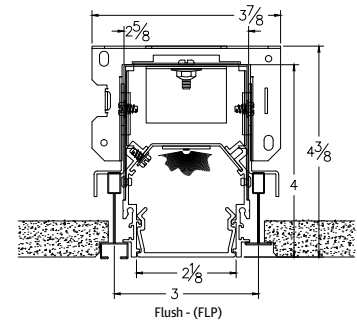
Lumens Output	400 LMF		600 LMF**		800LMF**		1000LMF	
Fixture Style	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	234	308	404	533	534	705	654	862
Input Watts/FT	4	4	6	6	8	8	11	11
Lumen/Watt	68	89	69	91	67	88	62	82

\* CCT (35K)

\* Consult factory for customized lumen output and wattage

\*\*Based on calculated values

### Technical Drawing



eldoLED  
your product | our drive

**LED Components**

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

**LED Life**

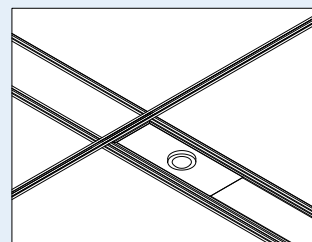
Rated 65,000 hours (L80) at 25 °C ambient temperature.

**Color Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.



Occupancy Sensor (PDT) and/or Photocell (ADC)


**Integrated Controls**

Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

**Photometry**

For photometric information refer to [www.marklighting.com](http://www.marklighting.com).

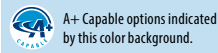


Submitted by The Lighting Group LLCChris Hamaker		Catalog Number:	Type:
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	SL2L LOP 11FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT	<b>RL-2-11'</b>
		Notes:	LGNW21-81871

# MARK

## ARCHITECTURAL LIGHTING™

### Slot 2 LED Recessed Linear



### Ordering

Example: SL2L LOP 4FT FLP FL 80CRI 30K 600LMF DARK 277 EC NLIGHT

Series		Linear Length Plan		Total Run Length		Fixture Style		Ceiling Trim		Direct Light Source Color Rendering	
SL2L Slot 2 LED LOP Linear Recessed		Linear Optimized Plan		2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6'		RFLP <sup>1,3</sup> Regressed Lens FLP <sup>2</sup> Flush Lens		FL <sup>4</sup> 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB <sup>4</sup> Trimless (sheetrock) WFL Perimeter Mount, 5/8" Flange (Sheetrock) WTG 9/16" Flat or Inverted Tee, Perimeter Mount		80CRI 80 CRI	
Direct LED Color Temp		Direct LED Light Output		Direct Distribution		Minimum Dimming Level		Voltage		Emergency Options	
27K* 2700K 30K 3000K 35K 3500K 40K 4000K 50K* 5000K		400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT _LMF* <sup>9</sup> ## Lumens per FT (Limited to 300LMF to 1000LMF in 50LMF increments)		(blank) Standard Distribution WW <sup>5</sup> Wall Wash		NODIM Non - Dim MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1% MIN5 <sup>6</sup> Constant current, dimming to 5% MIN10 <sup>15</sup> Constant current, dimming to 10%		120 120V 277 277V 347 <sup>7</sup> 347V		(blank) No Emergency _E10WLCP <sup>8</sup> Number of 4ft Emergency Section(s) with battery pack _EC <sup>10</sup> # of Emergency Circuits	
Control Input		Primary Sensor <sup>12</sup>		Secondary Sensor <sup>12</sup>		Tertiary Zone		Options			
(blank) Non-dim <sup>11</sup> ZT 0 10V NLIGHT nLight enabled NLTAIR2 <sup>17</sup> nLight Air (Wireless Enabled) ECOD <sup>16,18</sup> Lutron Hi-Lume digital driver ECOD2 <sup>16,18</sup> Lutron Hi-Lume 2-wire (1% dimming) ECOD5 <sup>16,18</sup> Lutron 5-series digital driver (5% dimming) DALI <sup>19</sup> Dali		(blank) Single Zone, No Sensor NS Multi-zone, No Sensor Main Zone PDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor ADC <sup>13</sup> Daylight Dimming Sensor API <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor APD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors SNS Multi-zone, with no sensor in secondary zone SPDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor SADC <sup>13</sup> Daylight Dimming Sensor SAPI <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor SAPD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors TNS Multi-zone, with no sensor in tertiary zone		CP <sup>18</sup> Chicago Plenum USPOM US point of assembly WL <sup>1,9</sup> Wet Location Listing DPL Damp Location Listing PWS 6' Pre-Wire, 3/8" Diameter, 18 Gauge			

\* Requires longer lead time.

#### Notes

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location label not available with regressed lens, sensor options or PWS. Cannot be installed on vertical surfaces.
- Not intended for post sheetrock installation.
- Wall wash not available with RLP lens option.
- MIN5 requires ECOD5 Control Input. ECOD5 only available with MIN5 dimming.
- Not available with 2ft fixture sections or with E10WLCP, NLIGHT, sensors, or ECO options. Must select MIN1 option.
- Remote mounted, not available with CP option. Battery kit is not wet listed, but can be used with WL fixture if installed in a dry location. If with ZT & API, APD or NLTAIR2, only available in 7' or 8' units.
- Not available with ECOD, ECOD2 and ECOD5.
- Standard 4' EC section, defaults to end of run. 2ft, 3ft and 5ft powers entire fixture, 6ft powers 3ft EC section.
- Only available with NODIM option.
- Sensors not available with WW, NODIM driver, WL, RLP, downlights or 2' or 3' units. Not available with 347 & NLIGHT together. Default location for sensor is the left side of the fixture. For runs, the first fixture will include the sensor.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.
- MIN10 not available with 347, sensors, NLIGHT or NLTAIR2, requires ZT
- ECOD and ECOD2 not available with sensors, requires MIN1 dimming. Must use 120 volt for ECOD2.
- Must select MIN1 or DARK. Not available with RLP, WW, PDT, ADC or 347, DPL or WL. If with EC, cannot be on individual units, and on runs, the EC cannot be on the same section as NLTAIR2.
- CP not available with NLTAIR2.
- DALI is only available with DARK or MIN1. It is not available with sensors or downlights.

#### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 11FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:**

**RL-2-11'**

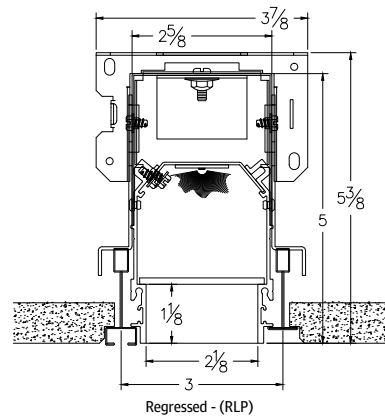
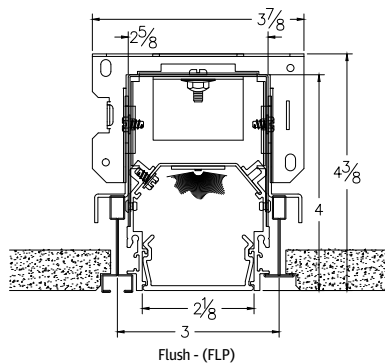
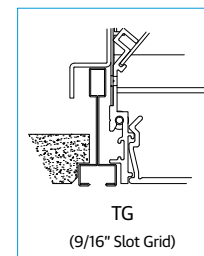
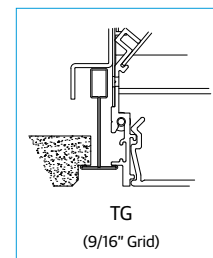
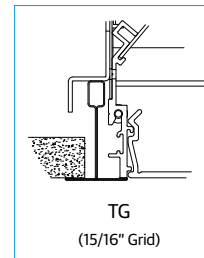
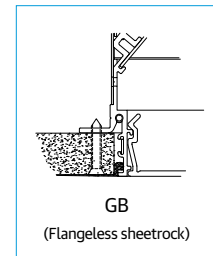
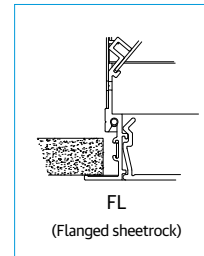
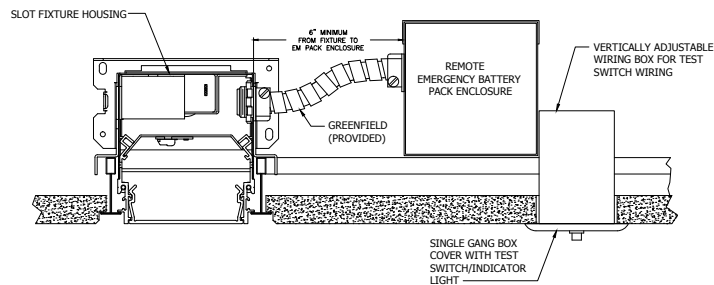
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear

**Technical Drawing****Ceiling Trim****Remote Emergency Battery Mounting****Notes**

- Delivers 700 lumens per 4FT length. Default location is the right side of fixture and end of run.
- Provided with 4FT of flexible conduit. Maximum of 25FT remote distance if extended. Extension provided by others.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 11FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-11'**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

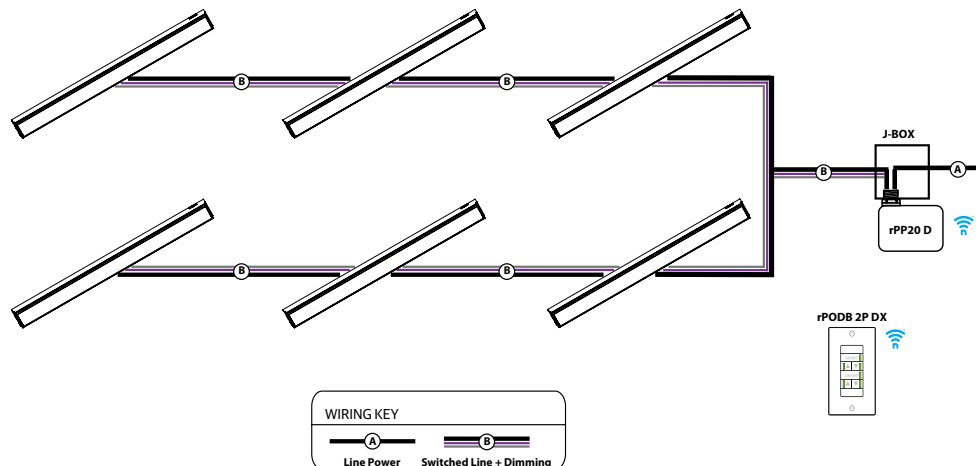
**Slot 2 LED**

Recessed Linear

**nLight Air Wireless**

To Make fixture NLTAIR2 compatible the following components are required:

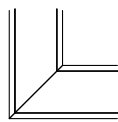
- 1) rpp20 D
- 2) rPODB 2P DX

**Continuous Runs**

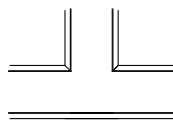
Slot 2 LED continuous rows can be configured in 1" increments.

**Run Patterns, Corners and Junction**

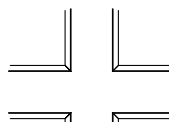
Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



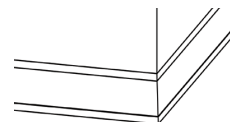
T Junction



X Junction



Inside Corner



Outside Corner

**Layout Sketch**

Please draw and configure your linear run below.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 11FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-11'**

LGNW21-81871

**MARK**

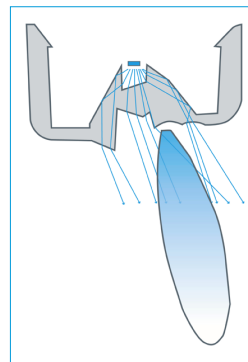
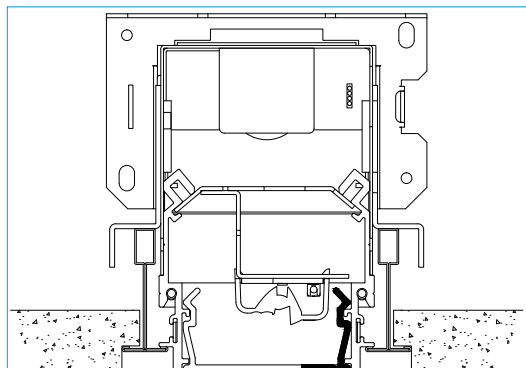
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

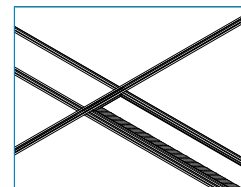
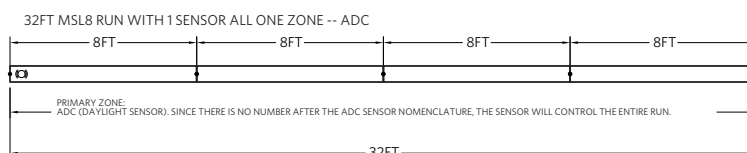
Recessed Linear

**OPTICS**

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Optional Wall Wash (WW)

**INTEGRATED SENSOR LAYOUT****Notes:**

- Only one sensor per zone

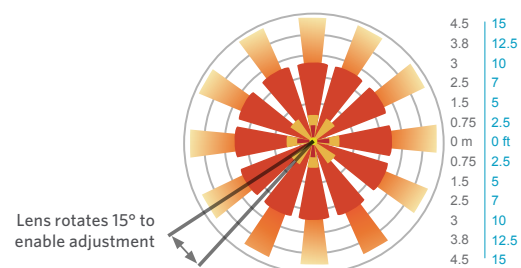
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 14FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

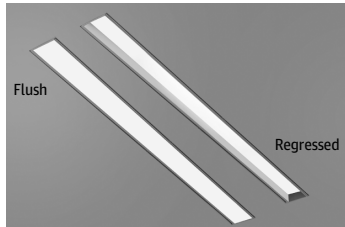
Notes:

**Type:****RL-2-14'**

LGNW21-81871

## MARK

### ARCHITECTURAL LIGHTING™



## Slot 2 LED

### Recessed Linear

Slot 2 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 2 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.

Type:

Project:

Catalog Number:

DO NOT TYPE HERE. Autopopulated field.

### Specification Features (continued on page 2)

**Housing**

Nominal 2" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**

Painted high reflectance matte white powder coat.

**Reflector**

Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Shielding**

Flush Lens: Snap-in 90% transmissive satin acrylic lens.

Regressed Lens: Lay-in 90% transmissive satin acrylic lens.

**Mounting**

Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

**Certification**

CSA tested to UL 1598 standards. Optional Damp or Wet location listings available, see ordering tree. This product is IC rated.

**Warranty**

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**Fixture Performance - SL2L\***

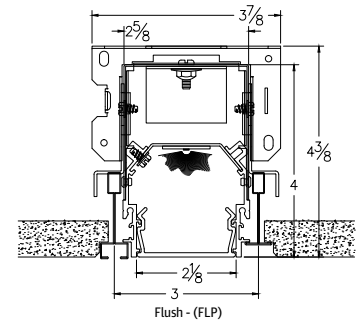
Lumens Output	400 LMF		600 LMF**		800LMF**		1000LMF	
Fixture Style	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	234	308	404	533	534	705	654	862
Input Watts/FT	4	4	6	6	8	8	11	11
Lumen/Watt	68	89	69	91	67	88	62	82

\* CCT (35K)

\* Consult factory for customized lumen output and wattage

\*\*Based on calculated values

### Technical Drawing



eldoLED  
your product | our drive

**LED Components**

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

**LED Life**

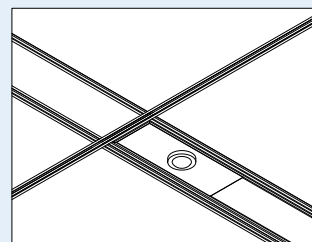
Rated 65,000 hours (L80) at 25 °C ambient temperature.

**Color Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.



Occupancy Sensor (PDT) and/or Photocell (ADC)


**Integrated Controls**

Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

**Photometry**

For photometric information refer to [www.marklighting.com](http://www.marklighting.com).

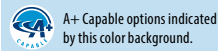


Submitted by The Lighting Group LLCChris Hamaker		Catalog Number:	Type:
	<b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	SL2L LOP 14FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT	<b>RL-2-14'</b>
		Notes:	
			LGNW21-81871

# MARK

## ARCHITECTURAL LIGHTING™

### Slot 2 LED Recessed Linear



## Ordering

Example: SL2L LOP 4FT FLP FL 80CRI 30K 600LMF DARK 277 EC NLIGHT

Series		Linear Length Plan		Total Run Length		Fixture Style		Ceiling Trim		Direct Light Source Color Rendering	
SL2L Slot 2 LED LOP Linear Recessed		Linear Optimized Plan		2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6'		7FT 7' 8FT 8' 9FT 9' 10FT 10' 11FT 11' 12FT 12'		FL* 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB* Trimless (sheetrock) WFL Perimeter Mount, 5/8" Flange (Sheetrock) WTG 9/16" Flat or Inverted Tee, Perimeter Mount		80CRI 80 CRI 90CRI 90 CRI	
Direct LED Color Temp		Direct LED Light Output		Direct Distribution		Minimum Dimming Level		Voltage		Emergency Options	
27K* 2700K 30K 3000K 35K 3500K 40K 4000K 50K* 5000K		400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT		(blank) Standard Distribution WW* Wall Wash		NODIM Non - Dim MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1% MIN5* Constant current, dimming to 5% MIN10* Constant current, dimming to 10%		120 120V 277 277V 347* 347V		(blank) No Emergency E10WLCP* Number of 4ft Emergency Section(s) with battery pack EC* # of Emergency Circuits	
Control Input		Primary Sensor <sup>12</sup>		Secondary Sensor <sup>12</sup>		Tertiary Zone		Options			
(blank) Non-dim <sup>11</sup> ZT 0 10V NLIGHT nLight enabled NLTAIR2 <sup>17</sup> nLight Air (Wireless Enabled) ECOD <sup>16,18</sup> Lutron Hi-Lume digital driver ECOD2 <sup>16,18</sup> Lutron Hi-Lume 2-wire (1% dimming) ECOD5 <sup>16,18</sup> Lutron 5-series digital driver (5% dimming) DALI <sup>19</sup> Dali		(blank) Single Zone, No Sensor NS Multi-zone, No Sensor Main Zone PDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor ADC <sup>13</sup> Daylight Dimming Sensor API <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor APD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors SNS Multi-zone, with no sensor in secondary zone SPDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor SADC <sup>13</sup> Daylight Dimming Sensor SAPI <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor SAPD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors TNS Multi-zone, with no sensor in tertiary zone		CP <sup>18</sup> Chicago Plenum USPOM US point of assembly WL <sup>1,9</sup> Wet Location Listing DPL Damp Location Listing PWS 6' Pre-Wire, 3/8" Diameter, 18 Gauge			

\* Requires longer lead time.

### Notes

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location label not available with regressed lens, sensor options or PWS. Cannot be installed on vertical surfaces.
- Not intended for post sheetrock installation.
- Wall wash not available with RLP lens option.
- MIN5 requires ECOD5 Control Input. ECOD5 only available with MIN5 dimming.
- Not available with 2ft fixture sections or with E10WLCP, NLIGHT, sensors, or ECO options. Must select MIN1 option.
- Remote mounted, not available with CP option. Battery kit is not wet listed, but can be used with WL fixture if installed in a dry location. If with ZT & API, APD or NLTAIR2, only available in 7' or 8' units.
- Not available with ECOD, ECOD2 and ECOD5.
- Standard 4' EC section, defaults to end of run. 2ft, 3ft and 5ft powers entire fixture, 6ft powers 3ft EC section.
- Only available with NODIM option.
- Sensors not available with WW, NODIM driver, WL, RLP, downlights or 2' or 3' units. Not available with 347 & NLIGHT together. Default location for sensor is the left side of the fixture. For runs, the first fixture will include the sensor.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.
- MIN10 not available with 347, sensors, NLIGHT or NLTAIR2, requires ZT
- ECOD and ECOD2 not available with sensors, requires MIN1 dimming. Must use 120 volt for ECOD2.
- Must select MIN1 or DARK. Not available with RLP, WW, PDT, ADC or 347, DPL or WL. If with EC, cannot be on individual units, and on runs, the EC cannot be on the same section as NLTAIR2.
- CP not available with NLTAIR2.
- DALI is only available with DARK or MIN1. It is not available with sensors or downlights.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 14FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:**

**RL-2-14'**

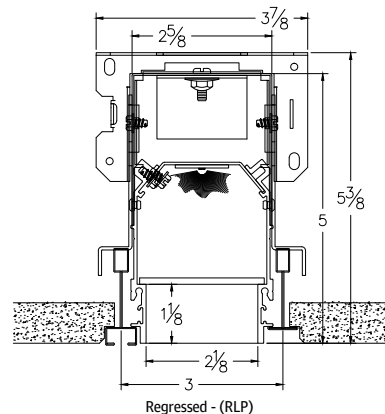
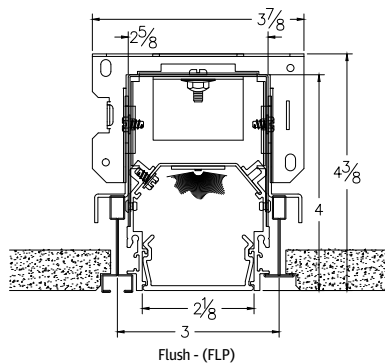
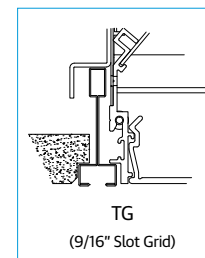
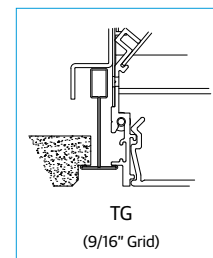
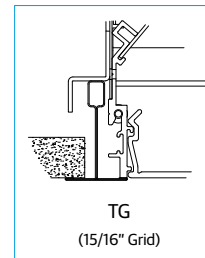
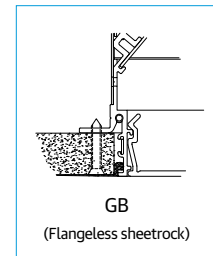
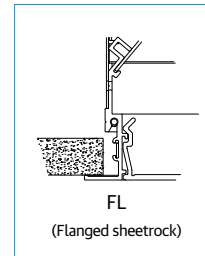
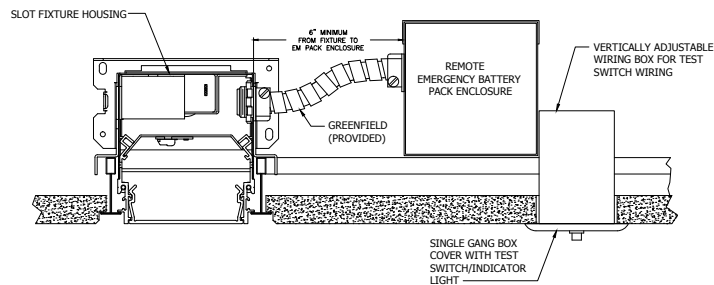
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear

**Technical Drawing****Ceiling Trim****Remote Emergency Battery Mounting****Notes**

- Delivers 700 lumens per 4FT length. Default location is the right side of fixture and end of run.
- Provided with 4FT of flexible conduit. Maximum of 25FT remote distance if extended. Extension provided by others.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 14FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-14'**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

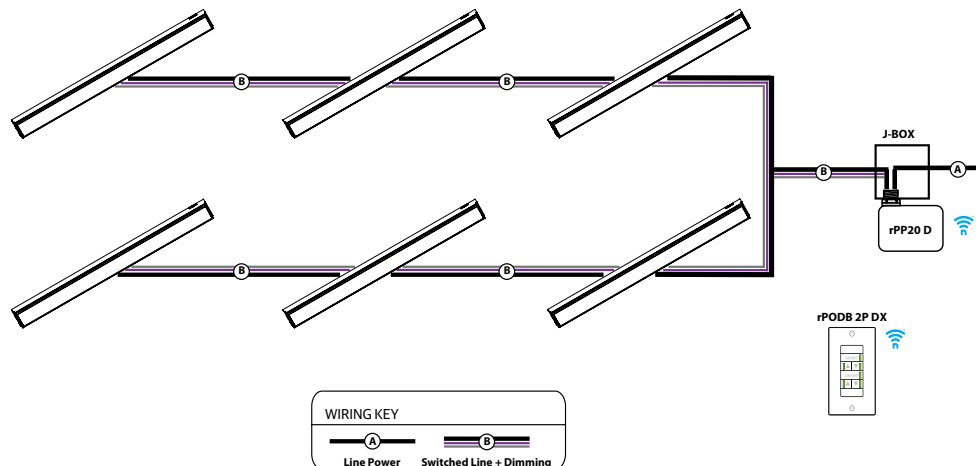
**Slot 2 LED**

Recessed Linear

**nLight Air Wireless**

To Make fixture NLTAIR2 compatible the following components are required:

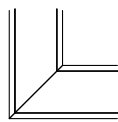
- 1) rpp20 D
- 2) rPODB 2P DX

**Continuous Runs**

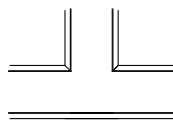
Slot 2 LED continuous rows can be configured in 1" increments.

**Run Patterns, Corners and Junction**

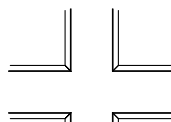
Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



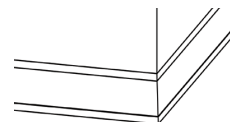
T Junction



X Junction



Inside Corner



Outside Corner

**Layout Sketch**

Please draw and configure your linear run below.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 14FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-14'**

LGNW21-81871

**MARK**

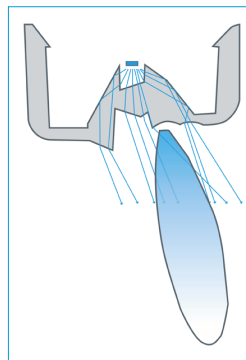
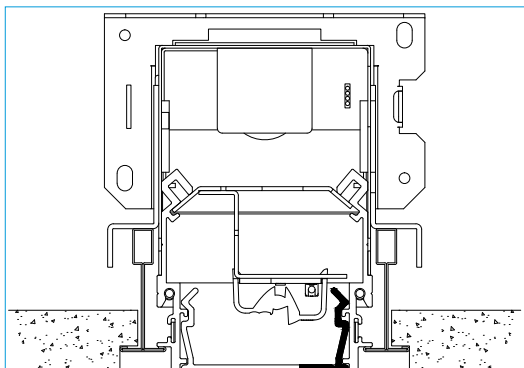
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

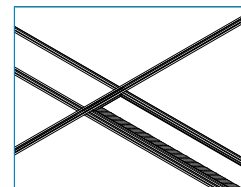
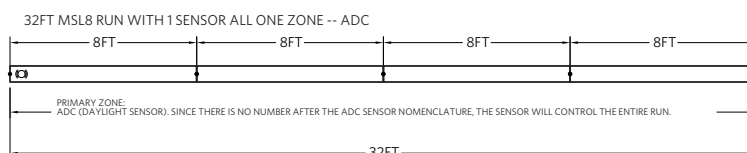
Recessed Linear

**OPTICS**

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Optional Wall Wash (WW)

**INTEGRATED SENSOR LAYOUT****Notes:**

- Only one sensor per zone

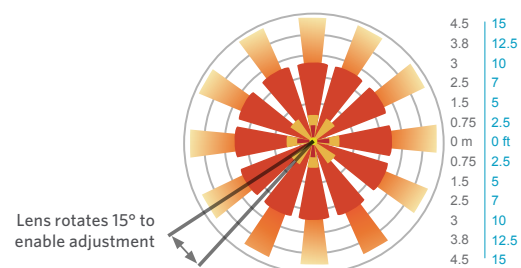
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

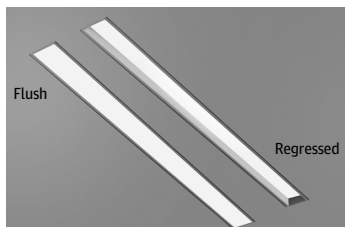
SL2L LOP 4FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT  
Notes:

**Type:****RL-2-4'**

LGNW21-81871

**MARK**ARCHITECTURAL  
LIGHTING™**Slot 2 LED**

## Recessed Linear



Slot 2 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 2 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.

**Type:****Project:****Catalog Number:****DO NOT TYPE HERE. Autopopulated field.****Specification Features (continued on page 2)****Housing**

Nominal 2" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**

Painted high reflectance matte white powder coat.

**Reflector**

Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Shielding**

Flush Lens: Snap-in 90% transmissive satin acrylic lens.

Regressed Lens: Lay-in 90% transmissive satin acrylic lens.

**Mounting**

Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

**Certification**

CSA tested to UL 1598 standards. Optional Damp or Wet location listings available, see ordering tree. This product is IC rated.

**Warranty**

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

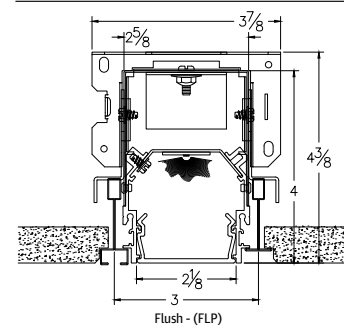
**Fixture Performance - SL2L\***

Lumens Output	400 LMF		600 LMF**		800LMF**		1000LMF	
Fixture Style	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	234	308	404	533	534	705	654	862
Input Watts/FT	4	4	6	6	8	8	11	11
Lumen/Watt	68	89	69	91	67	88	62	82

\* CCT (35K)

\* Consult factory for customized lumen output and wattage

\*\*Based on calculated values

**Technical Drawing**

eldoLED  
your product | our drive

**LED Components**

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

**LED Life**

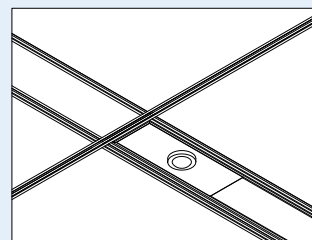
Rated 65,000 hours (L80) at 25 °C ambient temperature.

**Color Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.



Occupancy Sensor (PDT) and/or Photocell (ADC)


**Integrated Controls**

Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

**Photometry**

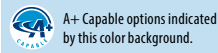
For photometric information refer to [www.marklighting.com](http://www.marklighting.com).



Submitted by The Lighting Group LLCChris Hamaker  <b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Catalog Number:</b> SL2L LOP 4FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT Notes:	<b>Type:</b> <b>RL-2-4'</b> LGNW21-81871
---	---	--

# MARK ARCHITECTURAL LIGHTING™

## Slot 2 LED Recessed Linear



### Ordering

Example: SL2L LOP 4FT FLP FL 80CRI 30K 600LMF DARK 277 EC NLIGHT

Series		Linear Length Plan		Total Run Length		Fixture Style		Ceiling Trim		Direct Light Source Color Rendering	
SL2L Slot 2 LED LOP Linear Recessed Optimized Plan		2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6'		7FT 7' 8FT 8' 9FT 9' 10FT 10' 11FT 11' 12FT 12'		RFP <sup>1,3</sup> Regressed Lens FLP <sup>2</sup> Flush Lens		FL <sup>4</sup> 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB <sup>4</sup> Trimless (sheetrock) WFL Perimeter Mount, 5/8" Flange (Sheetrock) WTG 9/16" Flat or Inverted Tee, Perimeter Mount		80CRI 80 CRI 90CRI 90 CRI	
Direct LED Color Temp		Direct LED Light Output		Direct Distribution		Minimum Dimming Level		Voltage		Finish	
27K* 2700K 30K 3000K 35K 3500K 40K 4000K 50K* 5000K		400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT		(blank) Standard Distribution WW <sup>5</sup> Wall Wash		NODIM Non - Dim MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1% MIN5 <sup>6</sup> Constant current, dimming to 5% MIN10 <sup>15</sup> Constant current, dimming to 10%		120 120V 277 277V 347 <sup>7</sup> 347V		(blank) White, textured xxx/BLKT Black, textured xxx/SLVT Silver, textured xxx/RALTB <sup>8</sup> RAL paint finish	
		_LMF <sup>9</sup> ## Lumens per FT (Limited to 300LMF to 1000LMF in 50LMF increments)								Emergency Options	
										(blank) No Emergency _E10WLCP <sup>8</sup> Number of 4ft Emergency Section(s) with battery pack _EC <sup>10</sup> # of Emergency Circuits	
Control Input		Primary Sensor <sup>12</sup>		Secondary Sensor <sup>12</sup>		Tertiary Zone		Options			
(blank) Non-dim <sup>11</sup> ZT 0 10V NLIGHT nLight enabled NLTAIR2 <sup>17</sup> nLight Air (Wireless Enabled) ECOD <sup>16,18</sup> Lutron Hi-Lume digital driver ECOD2 <sup>16,18</sup> Lutron Hi-Lume 2-wire (1% dimming) ECOD5 <sup>16,18</sup> Lutron 5-series digital driver (5% dimming) DALI <sup>19</sup> Dali		(blank) Single Zone, No Sensor NS Multi-zone, No Sensor Main Zone PDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor ADC <sup>13</sup> Daylight Dimming Sensor API <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor APD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors SNS Multi-zone, with no sensor in secondary zone SPDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor SADC <sup>13</sup> Daylight Dimming Sensor SAPI <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor SAPD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors TNS Multi-zone, with no sensor in tertiary zone		CP <sup>18</sup> Chicago Plenum USPOM US point of assembly WL <sup>1,9</sup> Wet Location Listing DPL Damp Location Listing PWS 6' Pre-Wire, 3/8" Diameter, 18 Gauge			

\* Requires longer lead time.

#### Notes

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location label not available with regressed lens, sensor options or PWS. Cannot be installed on vertical surfaces.
- Not intended for post sheetrock installation.
- Wall wash not available with RLP lens option.
- MIN5 requires ECOD5 Control Input. ECOD5 only available with MIN5 dimming.
- Not available with 2ft fixture sections or with E10WLCP, NLIGHT, sensors, or ECO options. Must select MIN1 option.
- Remote mounted, not available with CP option. Battery kit is not wet listed, but can be used with WL fixture if installed in a dry location. If with ZT & API, APD or NLTAIR2, only available in 7' or 8' units.
- Not available with ECOD, ECOD2 and ECOD5.
- Standard 4' EC section, defaults to end of run. 2ft, 3ft and 5ft powers entire fixture, 6ft powers 3ft EC section.
- Only available with NODIM option.
- Sensors not available with WW, NODIM driver, WL, RLP, downlights or 2' or 3' units. Not available with 347 & NLIGHT together. Default location for sensor is the left side of the fixture. For runs, the first fixture will include the sensor.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.
- MIN10 not available with 347, sensors, NLIGHT or NLTAIR2, requires ZT
- ECOD and ECOD2 not available with sensors, requires MIN1 dimming. Must use 120 volt for ECOD2.
- Must select MIN1 or DARK. Not available with RLP, WW, PDT, ADC or 347, DPL or WL. If with EC, cannot be on individual units, and on runs, the EC cannot be on the same section as NLTAIR2.
- CP not available with NLTAIR2.
- DALI is only available with DARK or MIN1. It is not available with sensors or downlights.

#### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 4FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-4'**

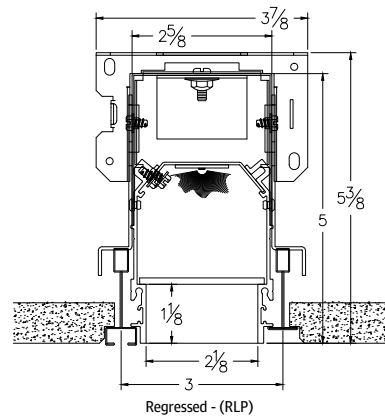
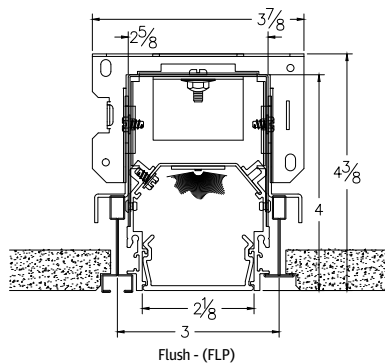
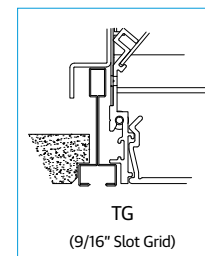
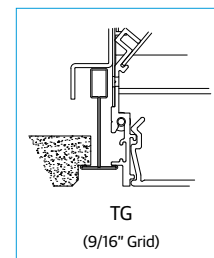
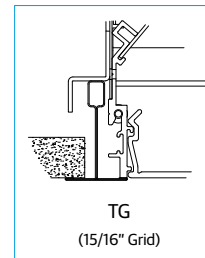
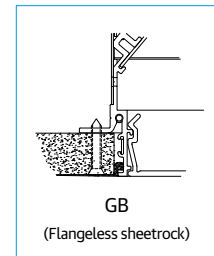
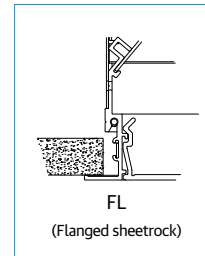
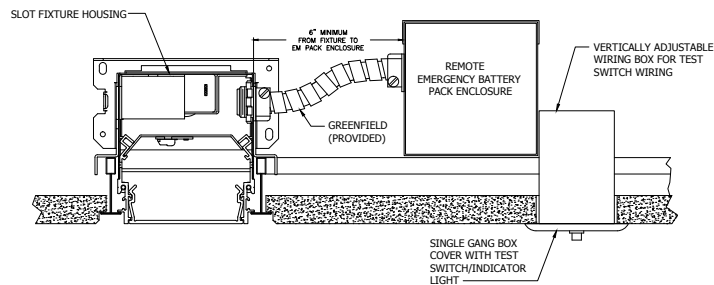
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear

**Technical Drawing****Ceiling Trim****Remote Emergency Battery Mounting****Notes**

- Delivers 700 lumens per 4FT length. Default location is the right side of fixture and end of run.
- Provided with 4FT of flexible conduit. Maximum of 25FT remote distance if extended. Extension provided by others.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 4FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-4'**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

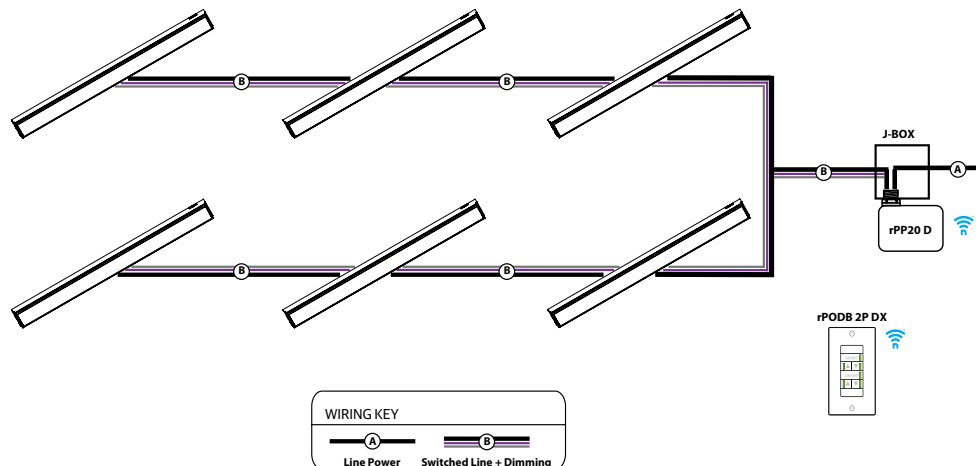
**Slot 2 LED**

Recessed Linear

**nLight Air Wireless**

To Make fixture NLTAIR2 compatible the following components are required:

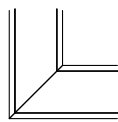
- 1) rpp20 D
- 2) rPODB 2P DX

**Continuous Runs**

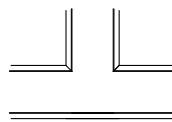
Slot 2 LED continuous rows can be configured in 1" increments.

**Run Patterns, Corners and Junction**

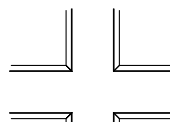
Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



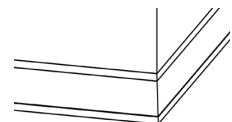
T Junction



X Junction



Inside Corner



Outside Corner

**Layout Sketch**

Please draw and configure your linear run below.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 4FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-4'**

LGNW21-81871

**MARK**

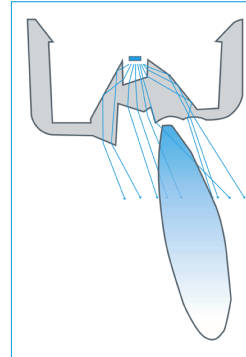
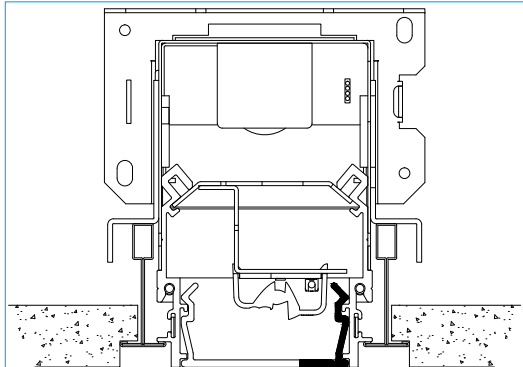
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

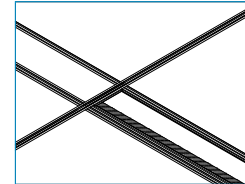
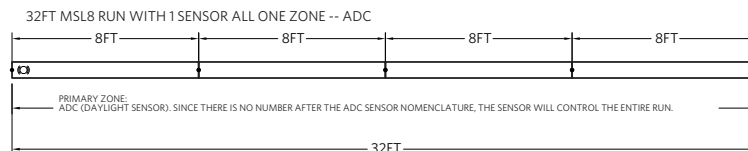
Recessed Linear

**OPTICS**

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Optional Wall Wash (WW)

**INTEGRATED SENSOR LAYOUT****Notes:**

- Only one sensor per zone

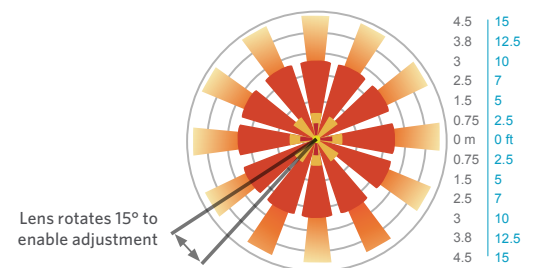
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 8FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT  
Notes:

**Type:****RL-2-8'**

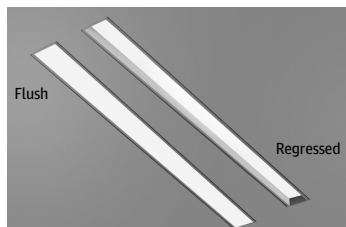
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear



Slot 2 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 2 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.

**Type:****Project:****Catalog Number:****DO NOT TYPE HERE. Autopopulated field.****Specification Features (continued on page 2)****Housing**

Nominal 2" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**

Painted high reflectance matte white powder coat.

**Reflector**

Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Shielding**

Flush Lens: Snap-in 90% transmissive satin acrylic lens.

Regressed Lens: Lay-in 90% transmissive satin acrylic lens.

**Mounting**

Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

**Certification**

CSA tested to UL 1598 standards. Optional Damp or Wet location listings available, see ordering tree. This product is IC rated.

**Warranty**

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

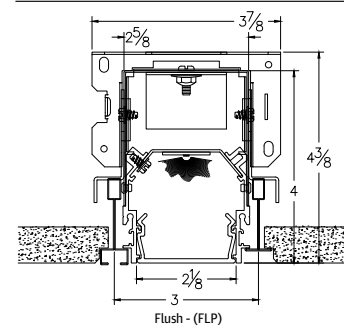
**Fixture Performance - SL2L\***

Lumens Output	400 LMF		600 LMF**		800LMF**		1000LMF	
Fixture Style	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	234	308	404	533	534	705	654	862
Input Watts/FT	4	4	6	6	8	8	11	11
Lumen/Watt	68	89	69	91	67	88	62	82

\* CCT (35K)

\* Consult factory for customized lumen output and wattage

\*\*Based on calculated values

**Technical Drawing**

eldoLED  
your product | our drive

**LED Components**

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

**LED Life**

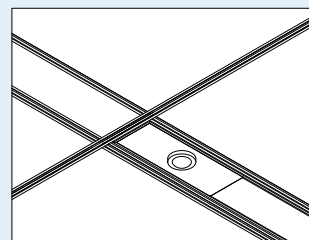
Rated 65,000 hours (L80) at 25 °C ambient temperature.

**Color Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.



Occupancy Sensor (PDT) and/or Photocell (ADC)


**Integrated Controls**

Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

**Photometry**

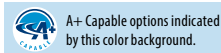
For photometric information refer to [www.marklighting.com](http://www.marklighting.com).



Submitted by The Lighting Group LLCChris Hamaker  <b>Job Name:</b> Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)	<b>Catalog Number:</b> SL2L LOP 8FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT Notes:	<b>Type:</b> <b>RL-2-8'</b> LGNW21-81871
---	---	--

MARK  
ARCHITECTURAL  
LIGHTING™

Slot 2 LED  
Recessed Linear



## Ordering

Example: SL2L LOP 4FT FLP FL 80CRI 30K 600LMF DARK 277 EC NLIGHT

Series		Linear Length Plan		Total Run Length		Fixture Style		Ceiling Trim		Direct Light Source Color Rendering	
SL2L Slot 2 LED LOP Linear Recessed		Linear Optimized Plan		2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6'		7FT 7' 8FT 8' 9FT 9' *Specify continuous linear feet in 1" increments (7FT6 = 7FT 6IN)		FL* 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB* Trimless (sheetrock) WFL Perimeter Mount, 5/8" Flange (Sheetrock) WTG 9/16" Flat or Inverted Tee, Perimeter Mount		80CRI 80 CRI 90CRI 90 CRI	
Direct LED Color Temp		Direct LED Light Output		Direct Distribution		Minimum Dimming Level		Voltage		Emergency Options	
27K* 2700K 30K 3000K 35K 3500K 40K 4000K 50K* 5000K		400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT *LMF* 9 ## Lumens per FT (Limited to 300LMF to 1000LMF in 50LMF increments)		(blank) Standard Distribution WW* Wall Wash		NODIM Non - Dim MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1% MIN5* Constant current, dimming to 5% MIN10* Constant current, dimming to 10%		120 120V 277 277V 347* 347V		(blank) No Emergency _E10WLCP* Number of 4ft Emergency Section(s) with battery pack _EC* # of Emergency Circuits	
Control Input		Primary Sensor <sup>12</sup>		Secondary Sensor <sup>12</sup>		Tertiary Zone		Options			
(blank) Non-dim <sup>11</sup> ZT 0 10V NLIGHT nLight enabled NLTAIR2 <sup>17</sup> nLight Air (Wireless Enabled) ECOD* <sup>16</sup> Lutron Hi-Lume digital driver ECOD2* <sup>16</sup> Lutron Hi-Lume 2-wire (1% dimming) ECOD5* <sup>16</sup> Lutron 5-series digital driver (5% dimming) DALI <sup>19</sup> Dali		(blank) Single Zone, No Sensor NS Multi-zone, No Sensor Main Zone PDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor ADC <sup>13</sup> Daylight Dimming Sensor API <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor APD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors SNS Multi-zone, with no sensor in secondary zone SPDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor SADC <sup>13</sup> Daylight Dimming Sensor SAPI <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor SAPD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors TNS Multi-zone, with no sensor in tertiary zone		CP <sup>18</sup> Chicago Plenum USPOM US point of assembly WL <sup>1,9</sup> Wet Location Listing DPL Damp Location Listing PWS 6' Pre-Wire, 3/8" Diameter, 18 Gauge			

\* Requires longer lead time.

### Notes

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location label not available with regressed lens, sensor options or PWS. Cannot be installed on vertical surfaces.
- Not intended for post sheetrock installation.
- Wall wash not available with RLP lens option.
- MIN5 requires ECOD5 Control Input. ECOD5 only available with MIN5 dimming.
- Not available with 2ft fixture sections or with E10WLCP, NLIGHT, sensors, or ECO options. Must select MIN1 option.
- Remote mounted, not available with CP option. Battery kit is not wet listed, but can be used with WL fixture if installed in a dry location. If with ZT & API, APD or NLTAIR2, only available in 7' or 8' units.
- Not available with ECOD, ECOD2 and ECOD5.
- Standard 4' EC section, defaults to end of run. 2ft, 3ft and 5ft powers entire fixture, 6ft powers 3ft EC section.
- Only available with NODIM option.
- Sensors not available with WW, NODIM driver, WL, RLP, downlights or 2' or 3' units. Not available with 347 & NLIGHT together. Default location for sensor is the left side of the fixture. For runs, the first fixture will include the sensor.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.
- MIN10 not available with 347, sensors, NLIGHT or NLTAIR2, requires ZT
- ECOD and ECOD2 not available with sensors, requires MIN1 dimming. Must use 120 volt for ECOD2.
- Must select MIN1 or DARK. Not available with RLP, WW, PDT, ADC or 347, DPL or WL. If with EC, cannot be on individual units, and on runs, the EC cannot be on the same section as NLTAIR2.
- CP not available with NLTAIR2.
- DALI is only available with DARK or MIN1. It is not available with sensors or downlights.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 8FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-8'**

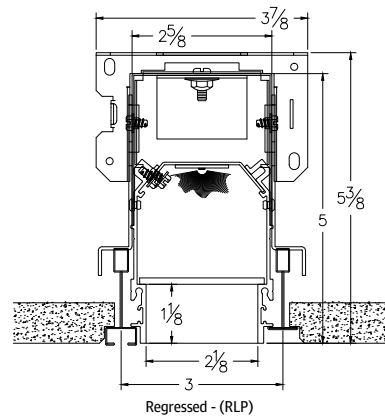
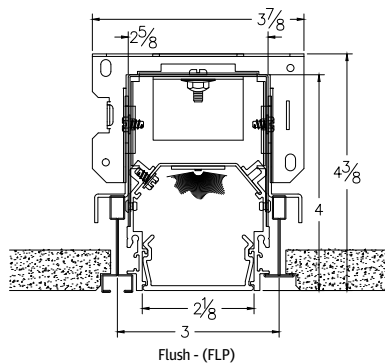
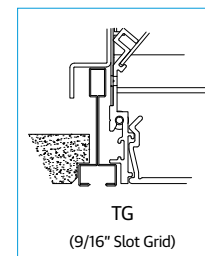
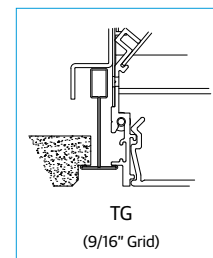
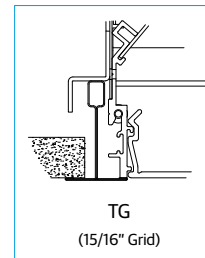
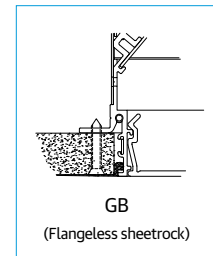
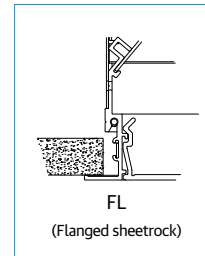
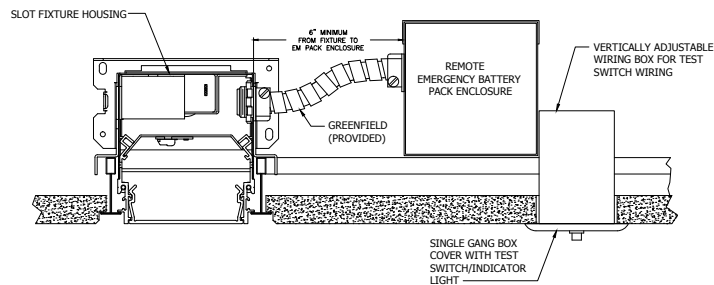
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear

**Technical Drawing****Ceiling Trim****Remote Emergency Battery Mounting****Notes**

- Delivers 700 lumens per 4FT length. Default location is the right side of fixture and end of run.
- Provided with 4FT of flexible conduit. Maximum of 25FT remote distance if extended. Extension provided by others.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 8FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-8'**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

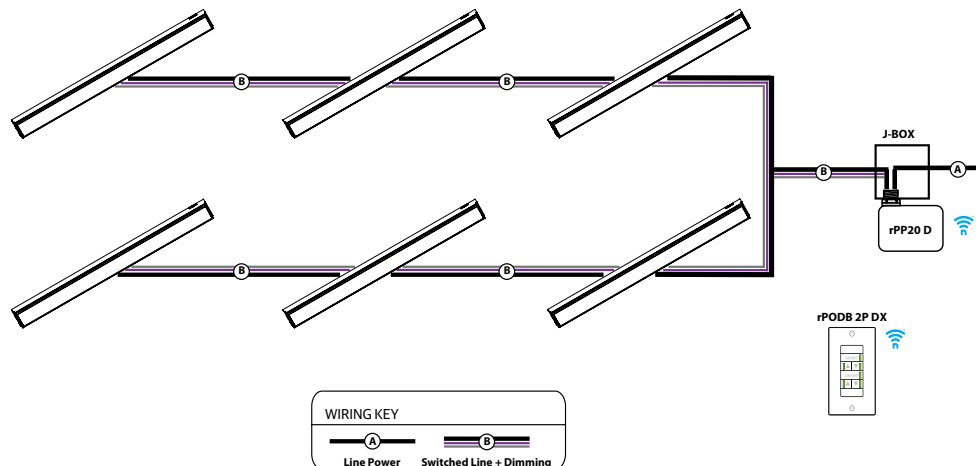
**Slot 2 LED**

Recessed Linear

**nLight Air Wireless**

To Make fixture NLTAIR2 compatible the following components are required:

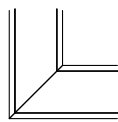
- 1) rpp20 D
- 2) rPODB 2P DX

**Continuous Runs**

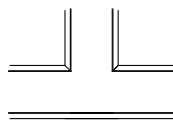
Slot 2 LED continuous rows can be configured in 1" increments.

**Run Patterns, Corners and Junction**

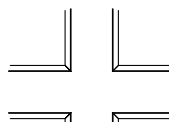
Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



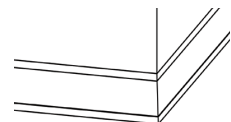
T Junction



X Junction



Inside Corner



Outside Corner

**Layout Sketch**

Please draw and configure your linear run below.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 8FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-8'**

LGNW21-81871

**MARK**

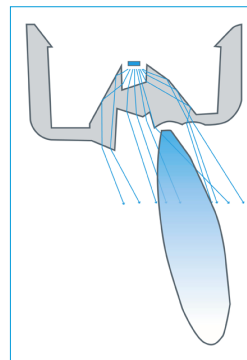
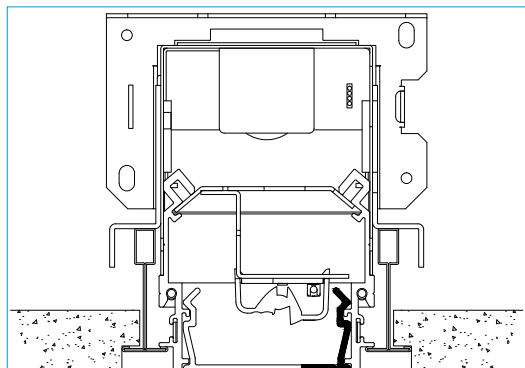
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

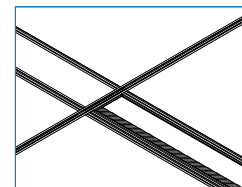
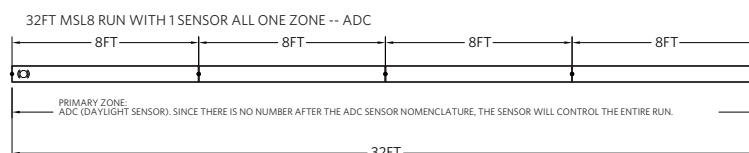
Recessed Linear

**OPTICS**

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Optional Wall Wash (WW)

**INTEGRATED SENSOR LAYOUT****Notes:**

- Only one sensor per zone

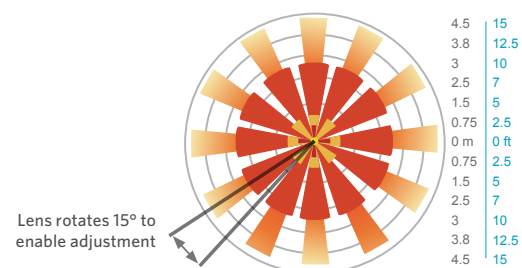
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 7FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT  
Notes:

**Type:****RL-2-7'**

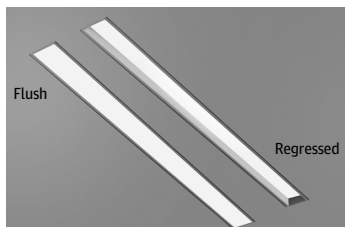
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear



Slot 2 LED takes both form and function a step further with increased efficacy and integral controls creating a digitally addressable luminaire that is perfect where visually harmonious illumination and energy efficiency are desired.

Slot 2 LED is the ideal choice for spaces that emphasize lines and clean contemporary design. It is a perfect fit for Armstrong TechZone™ ceiling systems. A regressed lens option provides added dimension to the sleek, slender design and the flush lens now has a Wet Label option.

**Type:****Project:****Catalog Number:****DO NOT TYPE HERE. Autopopulated field.****Specification Features (continued on page 2)****Housing**

Nominal 2" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1" increments as standard, upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**

Painted high reflectance matte white powder coat.

**Reflector**

Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Shielding**

Flush Lens: Snap-in 90% transmissive satin acrylic lens.

Regressed Lens: Lay-in 90% transmissive satin acrylic lens.

**Mounting**

Recessed. Available for sheetrock, 9/16" slot grid or 15/16" inverted tee ceilings, or 9/16" inverted tee.

**Certification**

CSA tested to UL 1598 standards. Optional Damp or Wet location listings available, see ordering tree. This product is IC rated.

**Warranty**

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

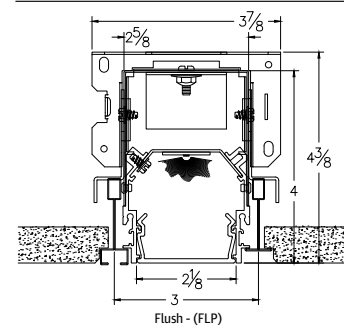
**Fixture Performance - SL2L\***

Lumens Output	400 LMF		600 LMF**		800LMF**		1000LMF	
Fixture Style	RLP	FLP	RLP	FLP	RLP	FLP	RLP	FLP
Delivered Lumens/FT	234	308	404	533	534	705	654	862
Input Watts/FT	4	4	6	6	8	8	11	11
Lumen/Watt	68	89	69	91	67	88	62	82

\* CCT (35K)

\* Consult factory for customized lumen output and wattage

\*\*Based on calculated values

**Technical Drawing**

eldoLED  
your product | our drive

**LED Components**

Linear: Nichia® - 757 Series LED chips (available in 80 or 90 CRI)

**LED Life**

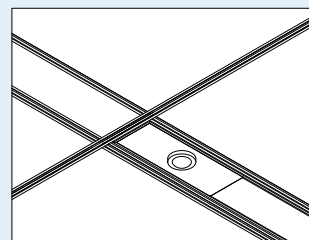
Rated 65,000 hours (L80) at 25 °C ambient temperature.

**Color Consistency**

The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**

eldoLED constant current driver options delivers ultra-smooth dimming resolution from 100% to 0.1%, while assuring flicker free, low current inrush, 89% efficiency and low EMI.



Occupancy Sensor (PDT) and/or Photocell (ADC)


**Integrated Controls**

Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

**Photometry**

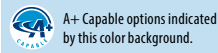
For photometric information refer to [www.marklighting.com](http://www.marklighting.com).



Submitted by The Lighting Group LLCChris Hamaker <div>  <div> <b>Job Name:</b>  Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase  Architect: ARC Architects (Seattle)  Engineer: TFWB Engineers (Travis Fitzmaurice) </div> </div>	<b>Catalog Number:</b> SL2L LOP 7FT FLP FL 80CRI 30K 1000LMF MIN1 VOLT ZT Notes:	<b>Type:</b> <b>RL-2-7'</b> LGNW21-81871
--	---	--

MARK  
ARCHITECTURAL  
LIGHTING™

Slot 2 LED  
Recessed Linear



## Ordering

Example: SL2L LOP 4FT FLP FL 80CRI 30K 600LMF DARK 277 EC NLIGHT

Series		Linear Length Plan		Total Run Length		Fixture Style		Ceiling Trim		Direct Light Source Color Rendering	
SL2L Slot 2 LED LOP Linear Recessed		Linear Optimized Plan		2FT 2' 3FT 3' 4FT 4' 5FT 5' 6FT 6'		7FT 7' 8FT 8' 9FT 9' 10FT 10' 11FT 11' 12FT 12'		FL* 5/8" Flange(sheetrock) TG 9/16" or 15/16" Flat or Inverted Tee GB* Trimless (sheetrock) WFL Perimeter Mount, 5/8" Flange (Sheetrock) WTG 9/16" Flat or Inverted Tee, Perimeter Mount		80CRI 80 CRI 90CRI 90 CRI	
Direct LED Color Temp		Direct LED Light Output		Direct Distribution		Minimum Dimming Level		Voltage		Emergency Options	
27K* 2700K 30K 3000K 35K 3500K 40K 4000K 50K* 5000K		400LMF 400 Lumens per FT 600LMF 600 Lumens per FT 800LMF 800 Lumens per FT 1000LMF 1000 Lumens per FT		(blank) Standard Distribution WW* Wall Wash		NODIM Non - Dim MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1% MIN5* Constant current, dimming to 5% MIN10* Constant current, dimming to 10%		120 120V 277 277V 347* 347V		(blank) No Emergency E10WLCP* Number of 4ft Emergency Section(s) with battery pack EC* # of Emergency Circuits	
Control Input		Primary Sensor <sup>12</sup>		Secondary Sensor <sup>12</sup>		Tertiary Zone		Options			
(blank) Non-dim <sup>11</sup> ZT 0 10V NLIGHT nLight enabled NLTAIR2 <sup>17</sup> nLight Air (Wireless Enabled) ECOD <sup>16</sup> Lutron Hi-Lume digital driver ECOD2 <sup>16</sup> Lutron Hi-Lume 2-wire (1% dimming) ECOD5 <sup>16</sup> Lutron 5-series digital driver (5% dimming) DALI <sup>19</sup> Dali		(blank) Single Zone, No Sensor NS Multi-zone, No Sensor Main Zone PDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor ADC <sup>13</sup> Daylight Dimming Sensor API <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor APD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors SNS Multi-zone, with no sensor in secondary zone SPDT <sup>13</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor SADC <sup>13</sup> Daylight Dimming Sensor SAPI <sup>14</sup> Passive Infrared Occupancy Sensor and Daylight Dimming Sensor SAPD <sup>14</sup> Dual Technology Occupancy Sensor and Daylight Dimming Sensor		(blank) No additional zones/sensors TNS Multi-zone, with no sensor in tertiary zone		CP <sup>18</sup> Chicago Plenum USPOM US point of assembly WL <sup>1,5</sup> Wet Location Listing DPL Damp Location Listing PWS 6' Pre-Wire, 3/8" Diameter, 18 Gauge			

\* Requires longer lead time.

### Notes

- Supplied with lift and shift lay-in lens.
- Supplied with snap-in lens.
- Wet Location label not available with regressed lens, sensor options or PWS. Cannot be installed on vertical surfaces.
- Not intended for post sheetrock installation.
- Wall wash not available with RLP lens option.
- MIN5 requires ECOD5 Control Input. ECOD5 only available with MIN5 dimming.
- Not available with 2ft fixture sections or with E10WLCP, NLIGHT, sensors, or ECO options. Must select MIN1 option.
- Remote mounted, not available with CP option. Battery kit is not wet listed, but can be used with WL fixture if installed in a dry location. If with ZT & API, APD or NLTAIR2, only available in 7' or 8' units.
- Not available with ECOD, ECOD2 and ECOD5.
- Standard 4' EC section, defaults to end of run. 2ft, 3ft and 5ft powers entire fixture, 6ft powers 3ft EC section.
- Only available with NODIM option.
- Sensors not available with WW, NODIM driver, WL, RLP, downlights or 2' or 3' units. Not available with 347 & NLIGHT together. Default location for sensor is the left side of the fixture. For runs, the first fixture will include the sensor.
- Requires ZT or NLIGHT Control Input.
- Requires ZT, NLIGHT or NLTAIR2 Control Input.
- MIN10 not available with 347, sensors, NLIGHT or NLTAIR2, requires ZT
- ECOD and ECOD2 not available with sensors, requires MIN1 dimming. Must use 120 volt for ECOD2.
- Must select MIN1 or DARK. Not available with RLP, WW, PDT, ADC or 347, DPL or WL. If with EC, cannot be on individual units, and on runs, the EC cannot be on the same section as NLTAIR2.
- CP not available with NLTAIR2.
- DALI is only available with DARK or MIN1. It is not available with sensors or downlights.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 7FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-7'**

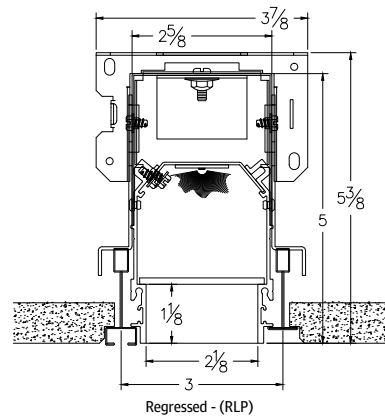
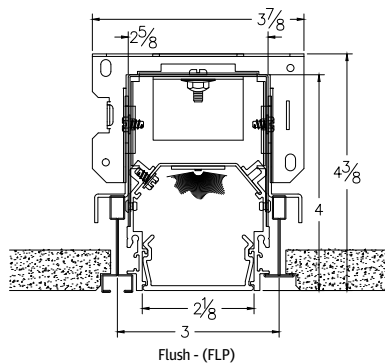
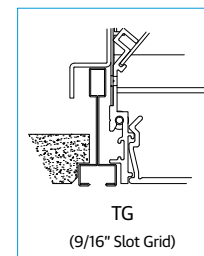
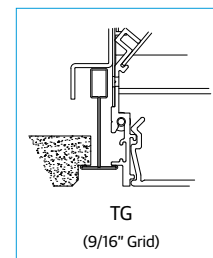
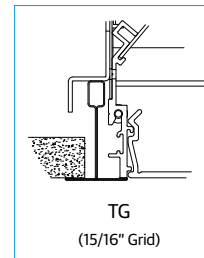
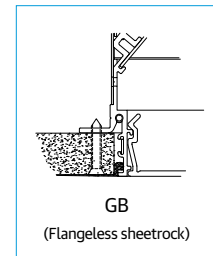
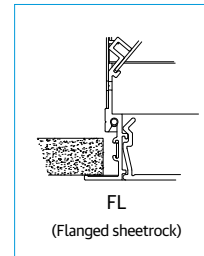
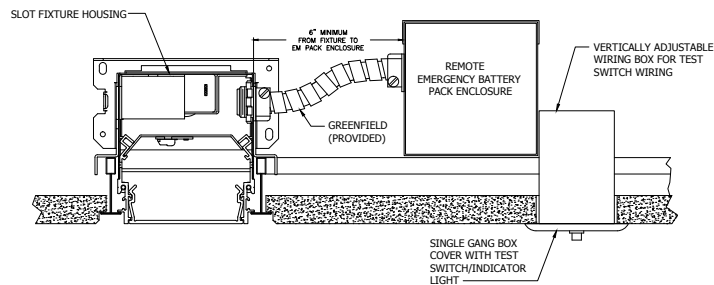
LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

Recessed Linear

**Technical Drawing****Ceiling Trim****Remote Emergency Battery Mounting****Notes**

- Delivers 700 lumens per 4FT length. Default location is the right side of fixture and end of run.
- Provided with 4FT of flexible conduit. Maximum of 25FT remote distance if extended. Extension provided by others.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 7FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-7'**

LGNW21-81871

**MARK**

ARCHITECTURAL  
LIGHTING™

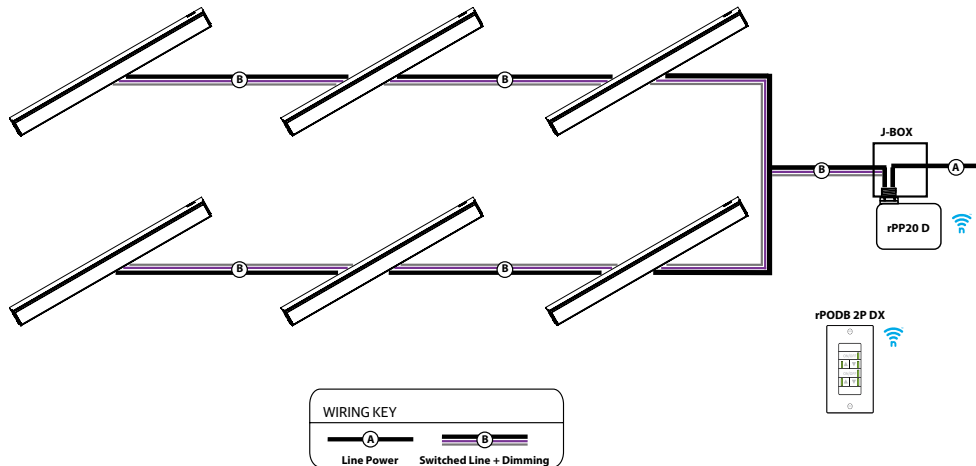
**Slot 2 LED**

Recessed Linear

**nLight Air Wireless**

To Make fixture NLTAIR2 compatible the following components are required:

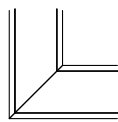
- 1) rpp20 D
- 2) rPODB 2P DX

**Continuous Runs**

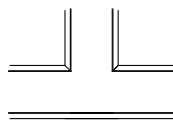
Slot 2 LED continuous rows can be configured in 1" increments.

**Run Patterns, Corners and Junction**

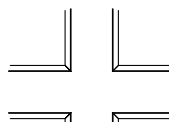
Slot 2 LED patterns be configured in 1' increments with illuminated 90° inside and outside corners, T junctions, and X junctions with standard 2' corner and junction lengths. For custom angles, corner or junction lengths, consult factory.



90° Corner



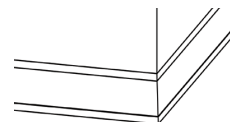
T Junction



X Junction



Inside Corner



Outside Corner

**Layout Sketch**

Please draw and configure your linear run below.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

SL2L LOP 7FT FLP FL 80CRI 30K  
1000LMF MIN1 VOLT ZT

Notes:

**Type:****RL-2-7'**

LGNW21-81871

**MARK**

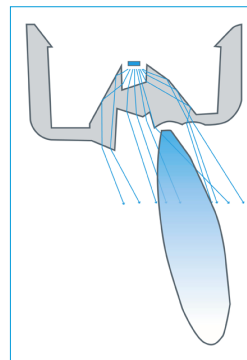
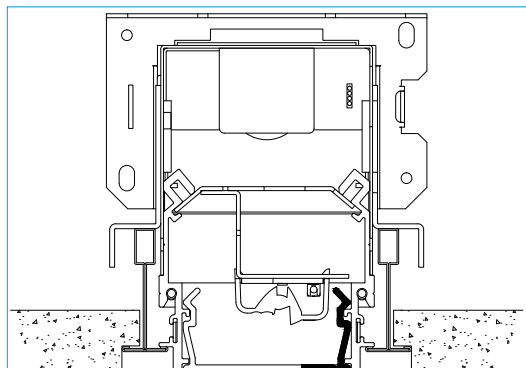
ARCHITECTURAL  
LIGHTING™

**Slot 2 LED**

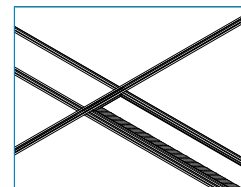
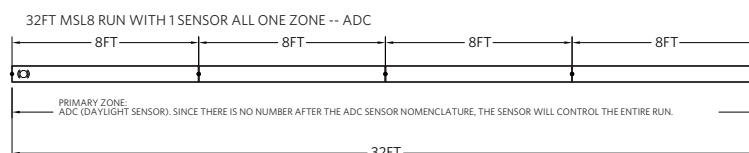
Recessed Linear

**OPTICS**

Slot LED's patent-pending, precision lumen DIRECTIR optics condition and refract light to deliver accurately controlled, striation-free, and uniform white light. All lumen DIRECTIR optics are injection-molded, optical grade, UV-resistant acrylic with selective finishing/polishing treatment.



Optional Wall Wash (WW)

**INTEGRATED SENSOR LAYOUT****Notes:**

- Only one sensor per zone

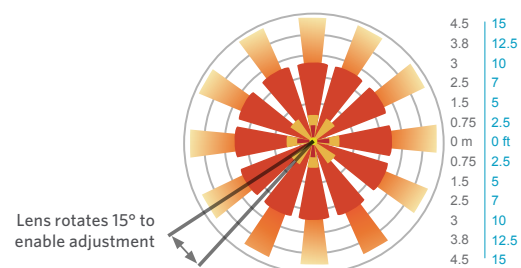
**OCCUPANCY DETECTION COVERAGE**

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.





**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

33 242-K3-STANDARD FINISH

**Notes:****Type:****WL-1**

LGNW21-81871

### Wall luminaires with directed light

**Housing:** One piece die-cast aluminum supplied with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box. Die castings are marine grade, copper free ( $\leq 0.3\%$  copper content) A360.0 aluminum alloy.

**Enclosure:** One piece die-cast aluminum cover frame secured by captive socket head, stainless steel screws threaded into stainless steel inserts. Semi-specular, anodized aluminum internal reflector. Stippled tempered clear glass. Fully gasketed for weather tight operation using a molded silicone rubber O-ring gasket.

**Electrical:** 17.9W LED luminaire, 22.9 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 90 CRI. Available in 4000K (90 CRI); add suffix K4 to order.

**Note:** LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to [www.bega-us.com](http://www.bega-us.com).

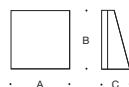
**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order

**CSA** certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

**Weight:** lbs.

Luminaire Lumens: 1893

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



Lamp

A

B

C

33 242	ADA	17.9W LED	8	8	3¾"
--------	-----	-----------	---	---	-----



**BEGA** 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 [www.bega-us.com](http://www.bega-us.com)

©copyright BEGA 2017 Updated 09/17



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**

33 242-K3-STANDARD FINISH

Notes:

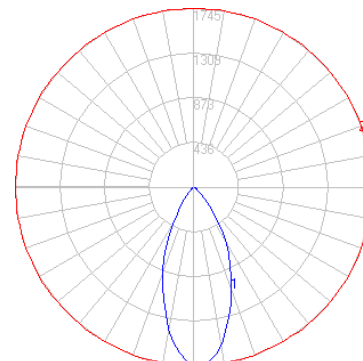
**Type:****WL-1**

LGNW21-81871


# BEGA

Photometric Filename: 33242.ies

TEST: BE 33242  
TEST LAB: BEGA  
DATE: 4/2/2013  
LUMINAIRE: 33 242  
LAMP: 17.9W LED





Submitted by The Lighting Group LLCChris Hamaker		Catalog Number: LE S 1/2 G EL N SD	Type: <b>EXIT</b>  LGNW21-81871
	Job Name: Confederated Tribes of Chehalis Indian Reservation - Elders Center Project Phase Architect: ARC Architects (Seattle) Engineer: TFWB Engineers (Travis Fitzmaurice)		



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Ideal for applications requiring attractive die-cast aluminum signage, superior illumination and low energy consumption.

**CONSTRUCTION** — Precision-molded, die-cast aluminum construction — ultra-slim, compact housing. Fine-grain brushed aluminum faceplate with matte black electrostatic polymeric trim. Clear lacquer finish on brushed face inhibits fingerprints and other surface contaminants.

All electronics located inside housing.

Fully overlapping light seal prevents light leaks. Universal directional chevron knockouts are completely concealed and easily removed. Hinged faceplate and spring latches for easy lamp compartment access, no exposed hardware.

Letters 6" high with 3/4" stroke, with 100 ft viewing distance rating, based upon UL924 standards.

**U.S. Patent No. 5,739,639, 5,954,423 and 6,502,044. Canada Patent No. 2,204,218. Other patents pending.**

**OPTICS** — Lamp is constructed using new LED technology. Provides perfectly uniform illumination to meet 3/4" letter stroke required by code.

The typical life of the exit LED lamp is 10 years, based on continuous operation. Unique LED lamp platform accommodates both single-face and double-face exits.

Low energy consumption — red exit consumes std. 81W, 1.3W (120V), green exit consumes std is 1W, 1.5W (120V). Universal input voltage capabilities (120V through 277V, 50 or 60 HZ).

**ELECTRICAL** — Solid-state electronic elements to eliminate risk of electromechanical failures.

Surge protection meets ANSI/IEEE C62.41 category B and IEC 1000 immunity standards for high voltage surges, electrostatic discharges, high frequency electrical fast transients and line voltage dips/swells.

**Emergency Operation (for EL N option only):** Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90 minutes capacity to lamp.

**Self-diagnostics (SD option only):** Two-state constant-current charger maximizes battery life and automatically recharges after battery discharge. Test switch provided for manual testing.

Self-diagnostic testing for five minutes every 30 days, 30 minutes at 180-day interval, and 90 minutes annually.

Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition.

Continuously monitors AC functionality.

Low voltage disconnect prevents excessive deep discharge that can permanently damage the battery.

Single-point microcomputer control for all electronic features.

Crystal oscillator timing system with watchdog protection for precision accuracy.

AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Brownout protection is automatically switched to emergency mode when supply voltage drops below 80% of nominal.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Catalog Number
Notes
Type



LE surface



LRE recessed



Die-Cast Aluminum Exits

# LE and LRE



**INSTALLATION** — Universal mounting (top, end or back). Double face available with top or end mounting only. LRE: Trim ring has 3/4" depth adjustment to ensure a flush fit against the surface. Protrudes 1/10" from the surface. No exposed hardware.

Die-cast aluminum canopy provided for surface mount only.

**LISTINGS** — UL damp location listed 50°F - 104°F (10°C - 40°C). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. North Carolina Department of Insurance.

**WARRANTY** — 5-year limited warranty. (Battery is prorated.) Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.

## ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

**Example:** LE S 1 R EL N SD

SPECIFY							
Series	Face type	Housing color	Number of faces	Letter color	Input voltage	Operation	Options
<b>LE</b> LED, surface mount	<b>S</b> Stencil	<b>(blank)</b> Matte black, brushed aluminum face	<b>1</b> Single face	<b>R</b> Red	<b>(blank)</b> Universal input voltage (120-277V, 50 or 60 HZ)	<b>(blank)</b> AC only	(blank) None
<b>LRE</b> LED, recessed	P Panel <sup>1</sup>	BZ Dark bronze	<b>2</b> Double face <sup>2</sup>	<b>G</b> Green		<b>EL N</b> Nickel-cadmium battery back-up	TP Two tamper proof Torx-head screws
		W White				X2 Lamp wired on two separate AC circuits <sup>3</sup>	VR Vandal-resistant shield (1/8" thick polycarbonate) <sup>4</sup>
		B Matte black					FI FA Field selectable fire alarm interface or flashing emergency operation with intermittent audible alarm (one flash per minute) <sup>5</sup>
							FI Fire alarm flashing interface <sup>6</sup>
							FA Flashing emergency operation and intermittent audible alarm <sup>7</sup>
							<b>SD</b> Self-diagnostics <sup>7</sup>

**Accessories:** Order as separate catalog number.

ELA US12	12" stem kit (see spec sheet <a href="#">ELA-StemKits</a> ) <sup>2,8</sup>	ELA ERK	Recess mounting rough-in kit for LRE only (see spec sheet <a href="#">ELA-ERK</a> )
ELA WG1	Back-mount wire guard (see spec sheet <a href="#">ELA-WG</a> ) <sup>2</sup>		
ELA WGEXT	Top-mount wire guard (see spec sheet <a href="#">ELA-WG</a> ) <sup>2</sup>		
ELA WGEXE	End-mount wire guard (see spec sheet <a href="#">ELA-WG</a> ) <sup>2</sup>		

## Notes

- Panel face available for special wording only (see [Custom Signage](#) spec sheet).
- Not available with LRE models.
- UL Listed as emergency lighting.
- VR contains tamper proof screws.
- Available with SD option only.
- Available with AC only or EL N operation only.
- Available with EL N option only.
- Add W for white.



**Job Name:**

Confederated Tribes of Chehalis Indian Reservation -  
Elders Center Project Phase  
Architect: ARC Architects (Seattle)  
Engineer: TFWB Engineers (Travis Fitzmaurice)

**Catalog Number:**  
LE S 1/2 G EL N SD

Notes:

**Type:****EXIT**

LGNW21-81871

**LE-LRE LED, Signature****SPECIFICATIONS**

ELECTRICAL				
Primary circuit				
Type	Typical LED life <sup>1</sup>	Supply voltage	Input watts	Max. amps
Red LED AC only	10 Years	120	0.81	0.05
		277	1.2	0.06
Green LED AC only	10 Years	120	1.05	0.05
		277	1.32	0.06
Red LED emergency	10 Years	120	1.3	0.06
		277	1.4	0.07
Green LED emergency	10 Years	120	1.5	0.07
		277	1.7	0.07

BATTERY			
Sealed Nickel-Cadmium			
Shelf life <sup>2</sup>	Typical life <sup>2</sup>	Maintenance <sup>3</sup>	Temperature range <sup>4</sup>
3 years	7-9 years	none	50°F – 104°F (10°C – 40°C)

**Notes**

- The typical life of the exit LED lamp is 10 years, based on continuous operation.
- At 77°F (25°C).
- All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.

**SELF-DIAGNOSTICS**  
 (SD option only)

- Five-minute test every 30 days
- 30-minute test every six months
- 90-minute test annually
- Diagnostics evaluate the battery, lamp, charger and AC to DC transfer.

Condition	Indication
Normal mode	Steady green
Self-testing	Flashing green
Emergency mode	Off
Hi-charge	Steady red
Battery failure	Single-flash red
Lamp failure	Double-flash red
Circuit failure	Triple-flash red

**KEY FEATURE**

The typical life of the exit LED lamp is 10 years.

**MOUNTING**

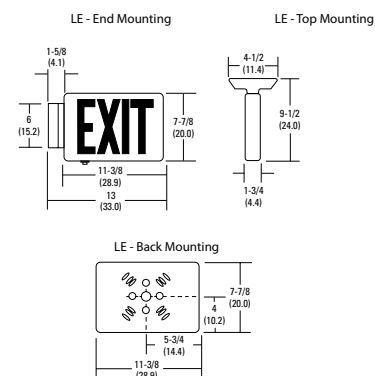
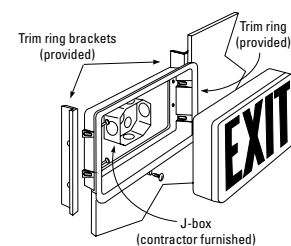
All dimensions are in inches (centimeters). For VR option, add 1/4" to height and width. Add 1/8" depth for single face; 1/4" depth for double face.

Shipping weight: LE - 4 lbs (1.8 kgs)

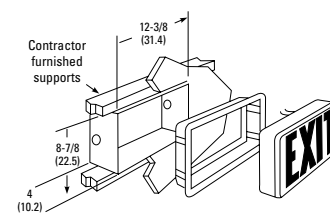
LE EL N - 5 lbs (2.3 kgs)

LRE - 4 lbs (1.8 kgs)

LRE EL N - 5 lbs (2.3 kgs)

**STANDARD MOUNTING**

Wall opening dimensions: 8-3/4" H x 12-3/8" W x 1-3/4" D

**MOUNTING WITH OPTIONAL ROUGH-IN KIT (ELA ERK)**

Wall opening dimensions: 8-7/8" H x 12-3/8" W x 4" D





**SUBSTITUTION  
REQUEST**  
(During The Bidding Phase)

Project: Chehalis Tribal Elders Center  
Niederman Rd Oakville WA  
To: Pacific Northern Environmental  
1121 Columbia Blvd Longview WA  
Re: Doug Palmer

Substitution Request Nbr: \_\_\_\_\_  
From: Automatic Door Solutions  
Date: Jun 8, 2021  
A/E Project Number 2020006.100  
Contract For: 15,106.00

Specification Title: Automatic Door Operators  
Section: 08 71 13 Page: 371

Description: Low Energy Operators  
Article/Paragraph: 2.1 Manufacturer

Proposed Substitution: Tormax 1301 Swing Door Operator  
Manufacturer: Tormax Address: San Antonio Texas Phone: 888-685-3707  
Trade Name: Door Operator Model No: TX 1301

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted By: Troy Dearing  
Signed By: *Troy C Dearing*  
Firm: Automatic Door Solutions  
Address: 10811 153rd St Ct E Telephone: 253-797-6569  
Puyallup WA 98374

A/E's REVIEW AND ACTION

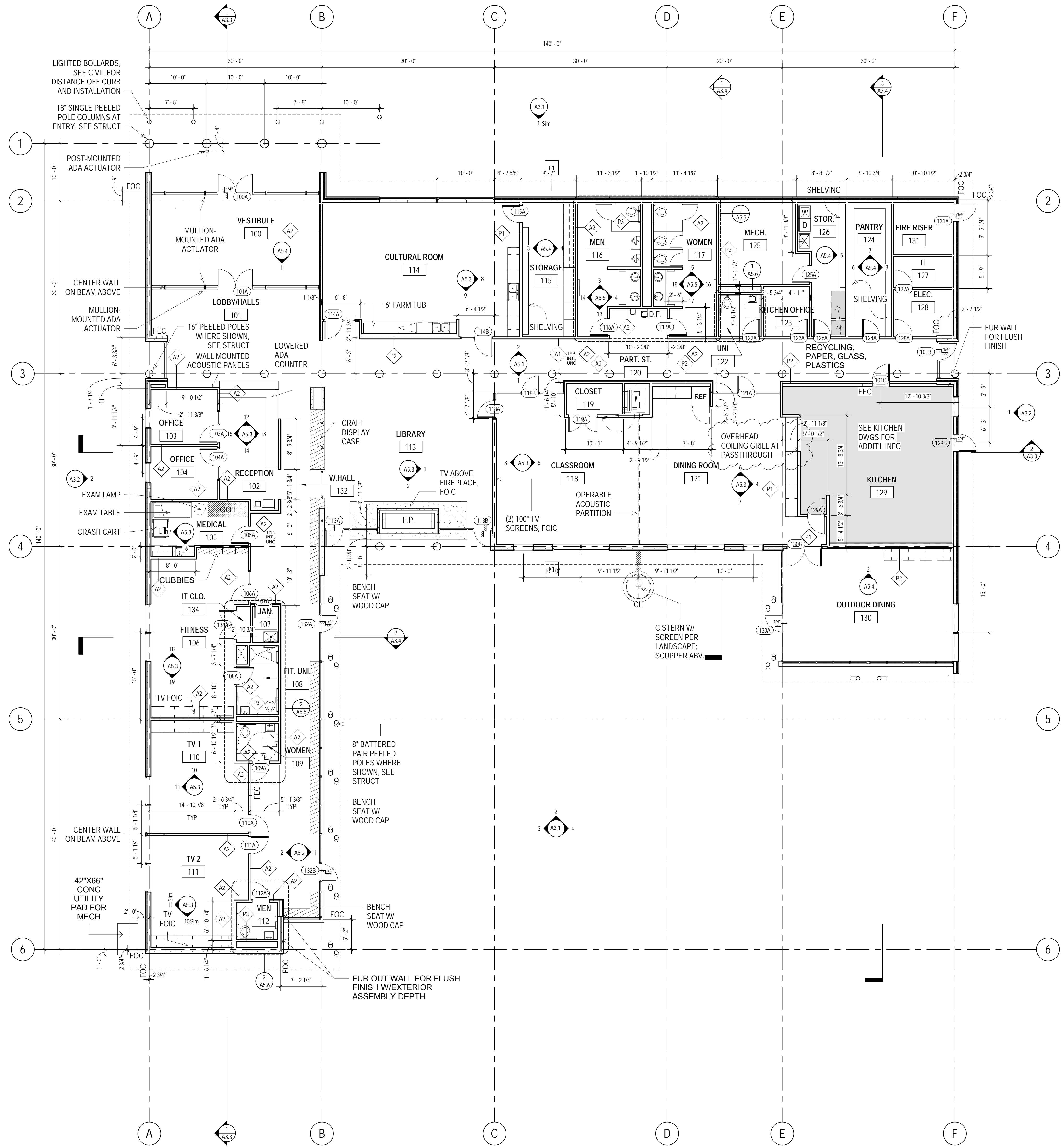
- ☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
- ☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- ☐ Substitution rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed By: \_\_\_\_\_

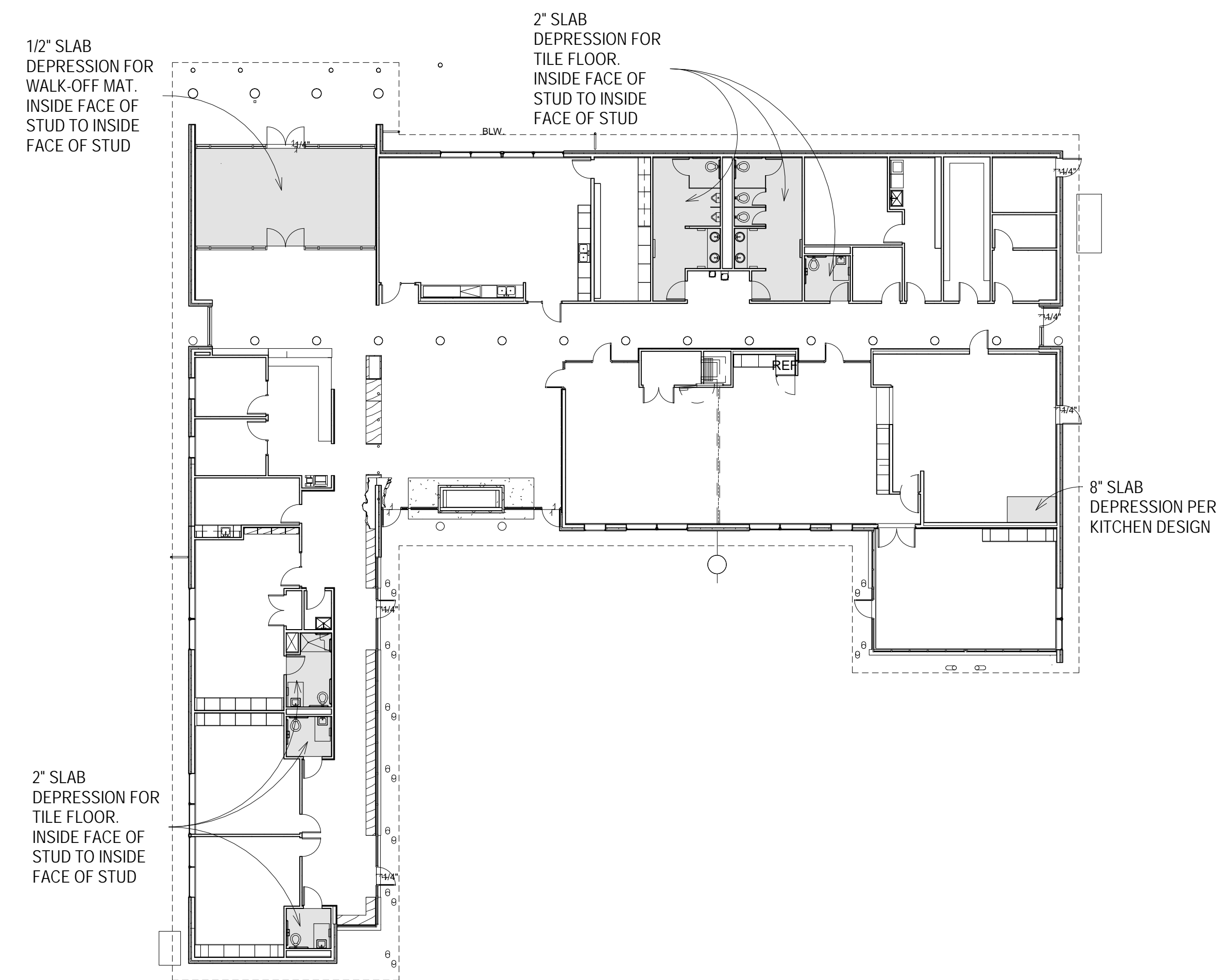
Date: \_\_\_\_\_

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports





1 FLOOR PLAN  
1/8" = 1'-0"



2 SLAB PLAN  
1/16" = 1'-0"

- PLAN NOTES:
- REFER TO T1.0 FOR GENERAL NOTES.
  - SEE CIVIL & LANDSCAPE DRAWINGS FOR EXTERIOR OF BUILDING CONDITIONS BEYOND THE BUILDING PERIMETER.
  - SEE A7.1 FOR TYPICAL INTERIOR PARTITIONS. ALL PARTITIONS ARE TYPE 'A1'; U.N.O.
  - SEE BUILDING SECTIONS FOR TYPICAL WALL, FLOOR, AND SLAB BUILDING ASSEMBLIES, U.O.N.
  - SEE BUILDING ELEVATIONS FOR WINDOW TYPES AND DESCRIPTIONS
  - REFER TO SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.
  - NOT ALL REQUIRED ACCESS PANELS HAVE BEEN SHOWN. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE THEIR LOCATION WITH ALL MECHANICAL AND ELECTRICAL ITEMS LOCATED IN CEILINGS AND PAINT TO MATCH ADJACENT SURFACES.
  - SEE FINISH PLANS FOR CONTROL JOINT AND EXPANSION JOINT LOCATIONS AT EXPOSED TO VIEW CONCRETE FLOORS.
  - ROOMS WITH CAPACITY GREATER THAN 50 OCCUPANTS SHALL HAVE CLEARLY VISIBLE SIGNAGE INDICATING OCCUPANT CAPACITY FOR THAT ROOM.
  - AT LOCATIONS WHERE SHEAR WALLS OCCUR ALONG A PORTION OF A WALL, CONTRACTOR IS TO PROVIDE ADDITIONAL PLYWOOD FOR NON-SHEAR LENGTH OF WALL TO NEAREST CORNER SO AS TO PROVIDE A SMOOTH AND FLUSH SURFACE.

LEGEND

ROOM NAME	ROOM NAME	ROOM NAME	ROOM NAME
101	ROOM NAME	ROOM NAME	ROOM NAME

EXTERIOR ELEVATION

INTERIOR ELEVATION

BUILDING SECTION

DETAILS

DIMENSION POINT OR ELEVATION

FIRE EXTINGUISHER RECESSED MOUNTED

1 Ref A1.1

1 Ref A1.1

1 Ref A1.1

1 Ref A1.1

DRAWING # SHEET #

DRAWING # SHEET #

DRAWING # SHEET #

DRAWING # SHEET #

arc  
ARCHITECTS  
119 S MAIN ST  
SUITE 200  
SEATTLE, WA  
98104-2579  
206 322 3322

The Chehalis Tribe  
Chehalis Elders Center  
NIEDERMAN RD  
OAKVILLE, WA 98568



BID  
DOCUMENTS

ISSUE DATE: APRIL 16, 2021		
REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

CONTENTS:  
1st FLOOR PLAN

SCALE:	As Indicated
DRAWN:	AW
CHECKED:	PRC
PROJECT NO:	2020006.100

SHEET  
A2.1





BID  
DOCUMENTS

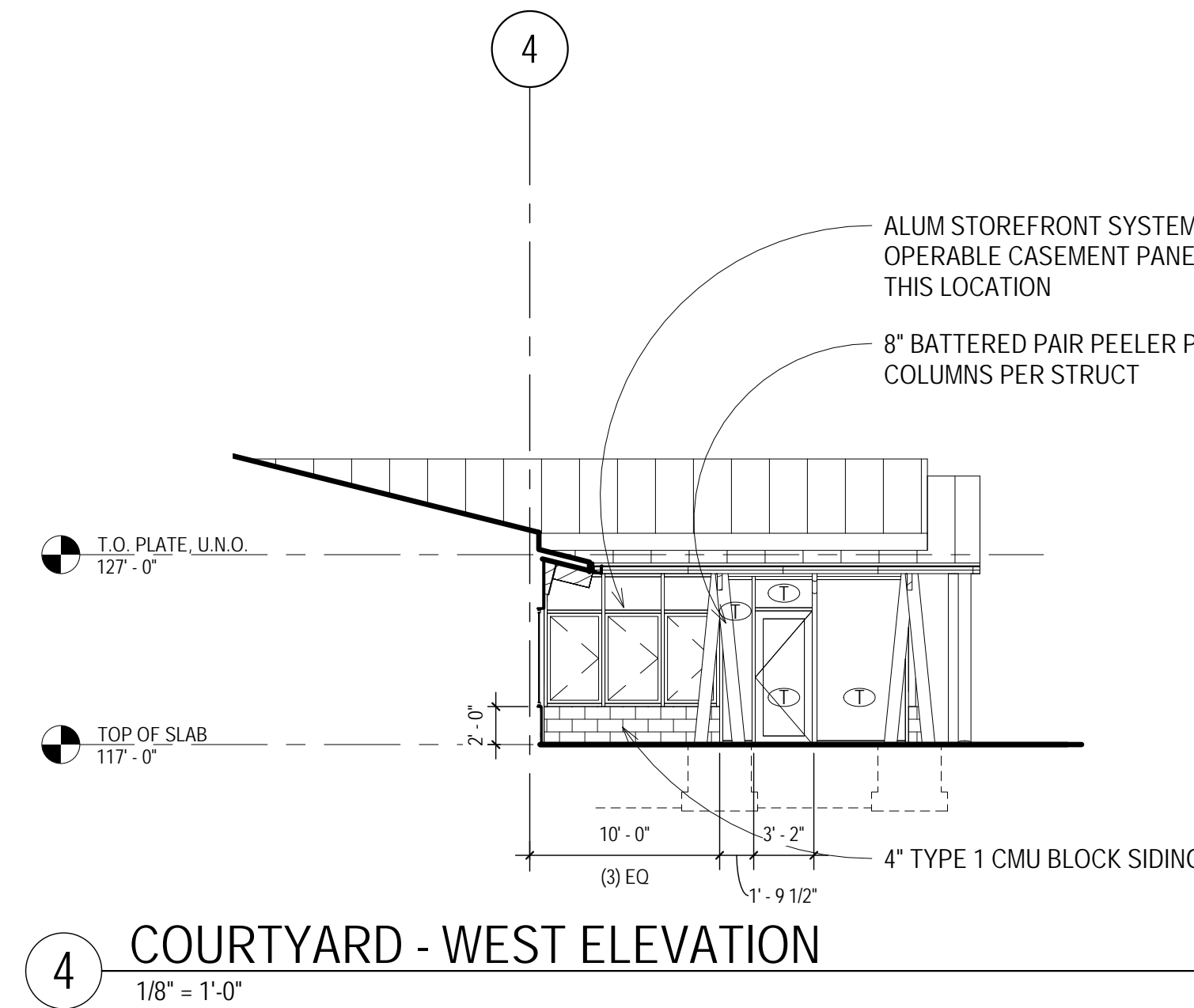
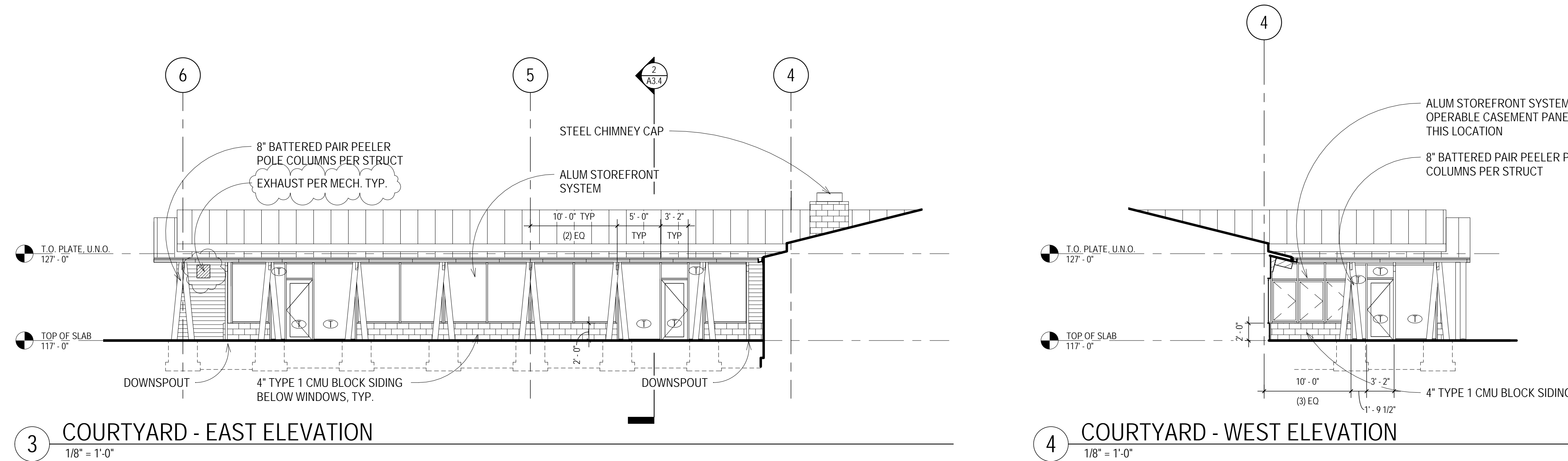
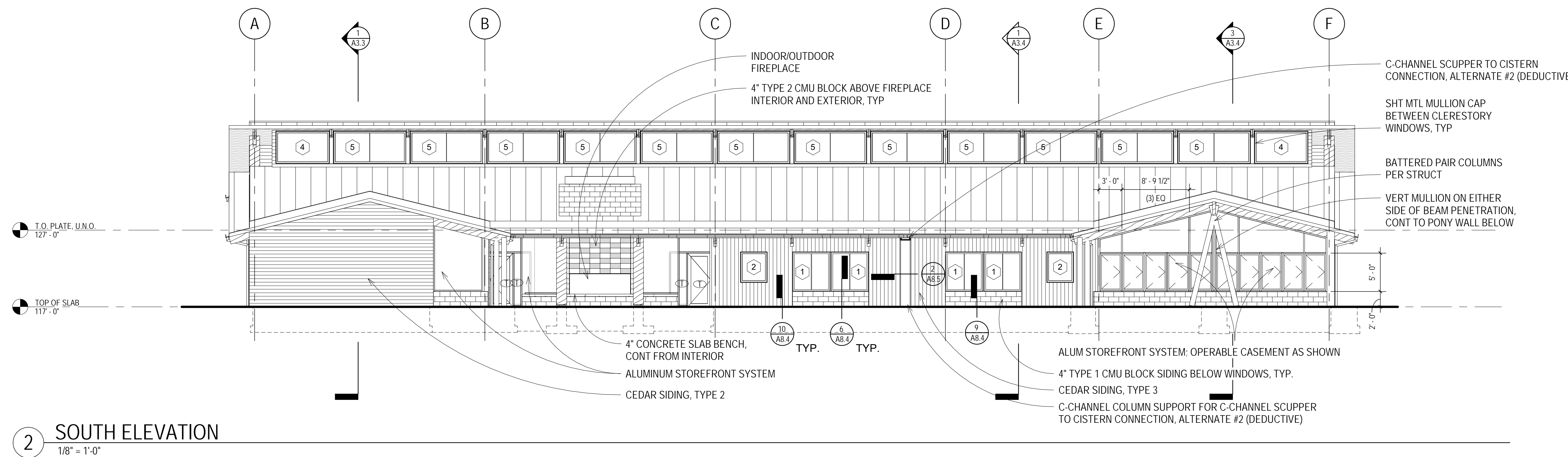
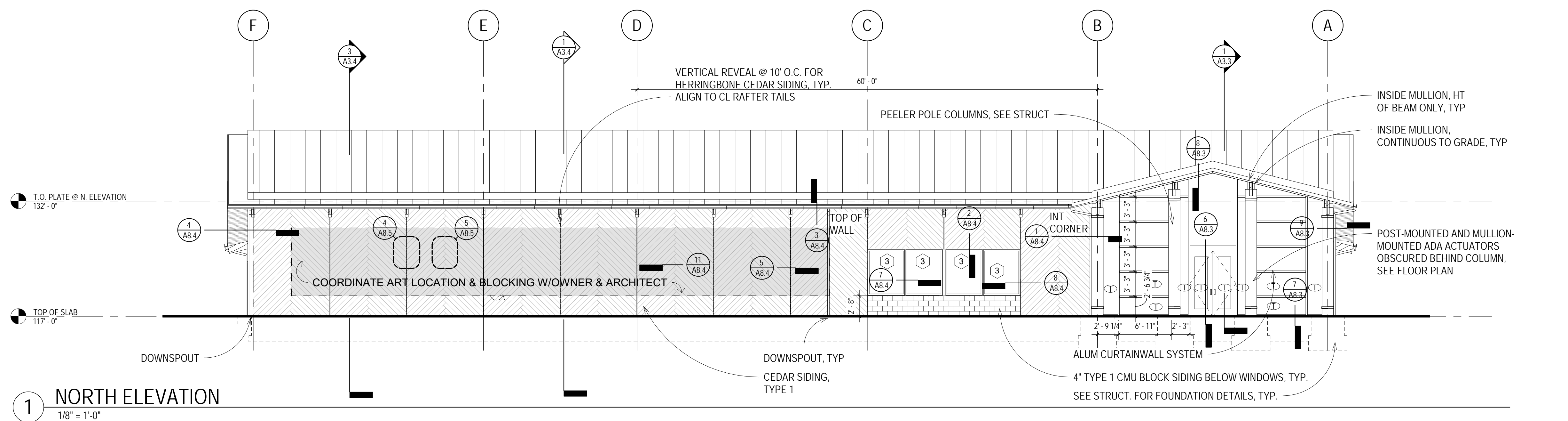
ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

CONTENTS:  
**EXTERIOR  
ELEVATIONS**

SCALE: **As indicated**  
DRAWN: **AW**  
CHECKED: **PRC**  
PROJECT NO: 2020006.100

SHEET  
**A3.1**



GLAZING TO WALL RATIO

GLAZING TOTAL: 2,581 SF 30%  
WALL TOTAL: 6,029 SF 70%  
GRAND TOTAL: 8,610 SF 100%

ELEVATION LEGEND

	CLEAR, UN-TEMPERED GLASS
	TEMPERED GLASS

ELEVATION NOTES:

- REFER TO T1.0 FOR PROJECT GENERAL NOTES.
- REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
- SEE BUILDING SECTIONS FOR EXTERIOR WALL AND ROOF ASSEMBLIES
- REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
- DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
- SEE A10.1 FOR FINISHES ON EXTERIOR BUILDING COMPONENTS SCHEDULE.
- STOREFRONT AND CURTAINWALL ALUMINUM WINDOW SYSTEMS NOT INCLUDED IN WINDOW SCHEDULE. REFER TO ELEVATIONS.





BID  
DOCUMENTS

ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

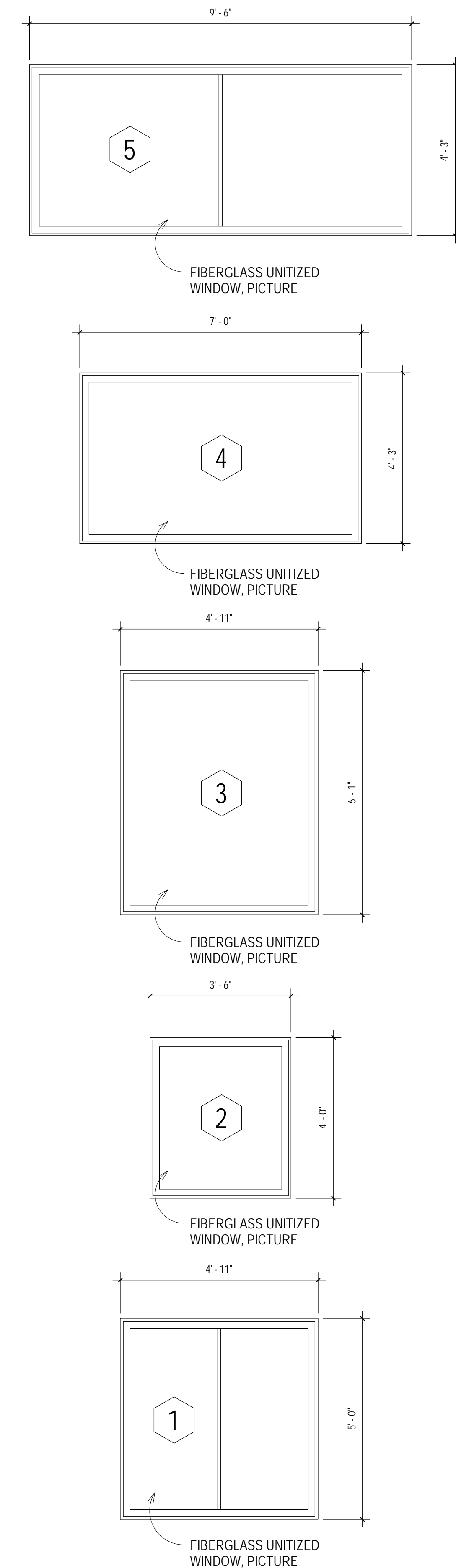
CONTENTS:

EXTERIOR  
ELEVATIONS

SCALE:	As indicated
DRAWN:	AW
CHECKED:	PRC
PROJECT NO:	2020006.100

SHEET:

A3.2



3 WINDOW SCHEDULE  
1/2" = 1'-0"

ELEVATION LEGEND

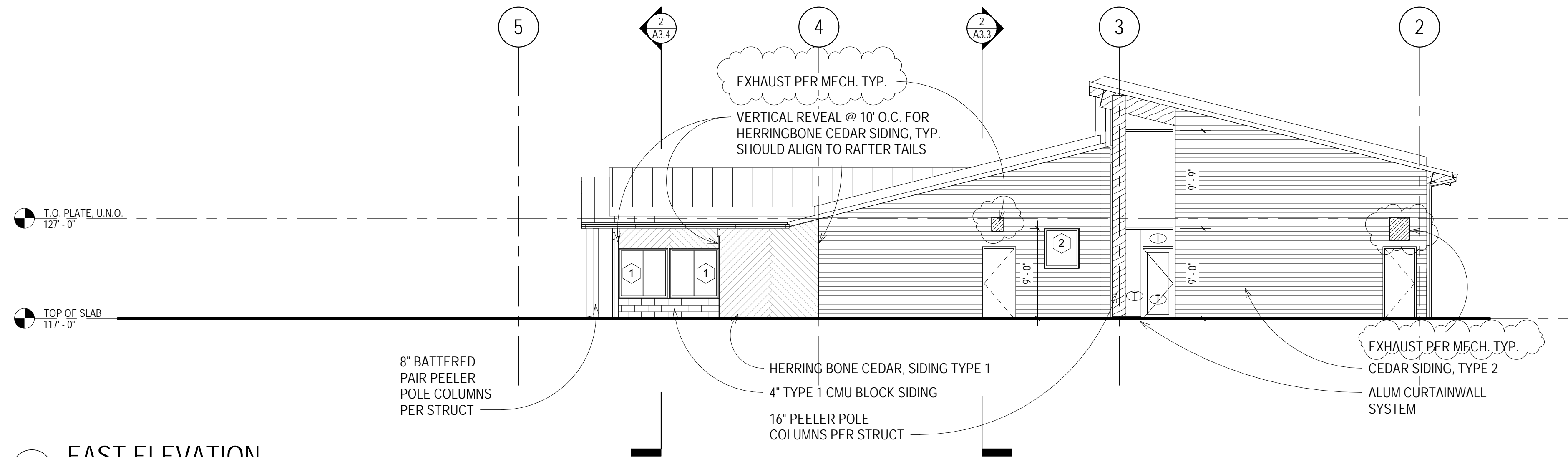


GLAZING TO WALL RATIO

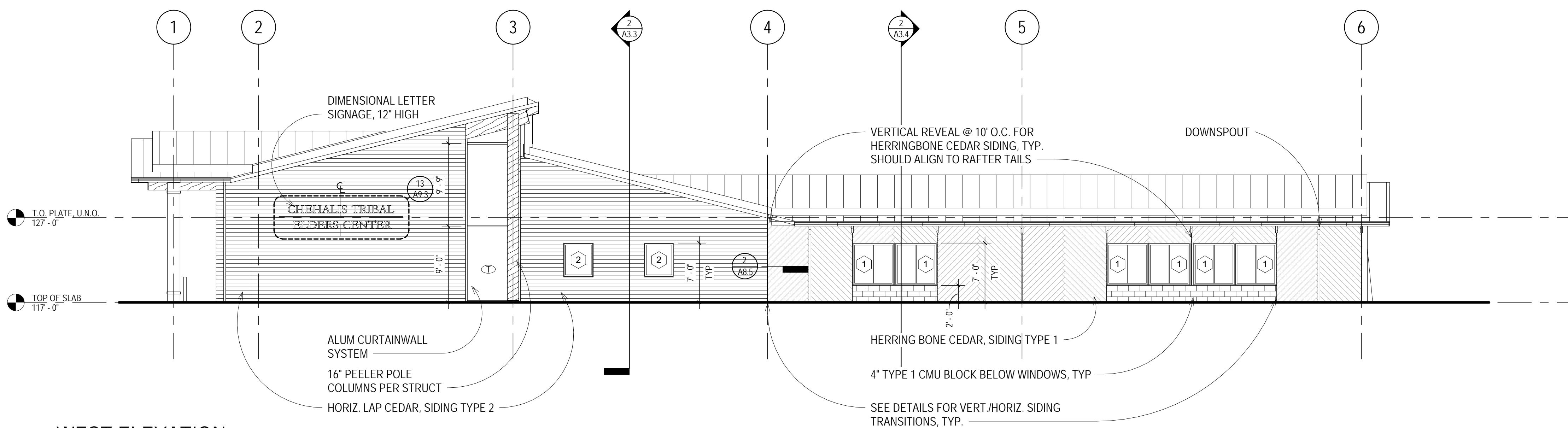
GLAZING TOTAL:	2,581 SF	30%
WALL TOTAL:	6,029 SF	70%
GRAND TOTAL:	8,610 SF	100%

ELEVATION NOTES:

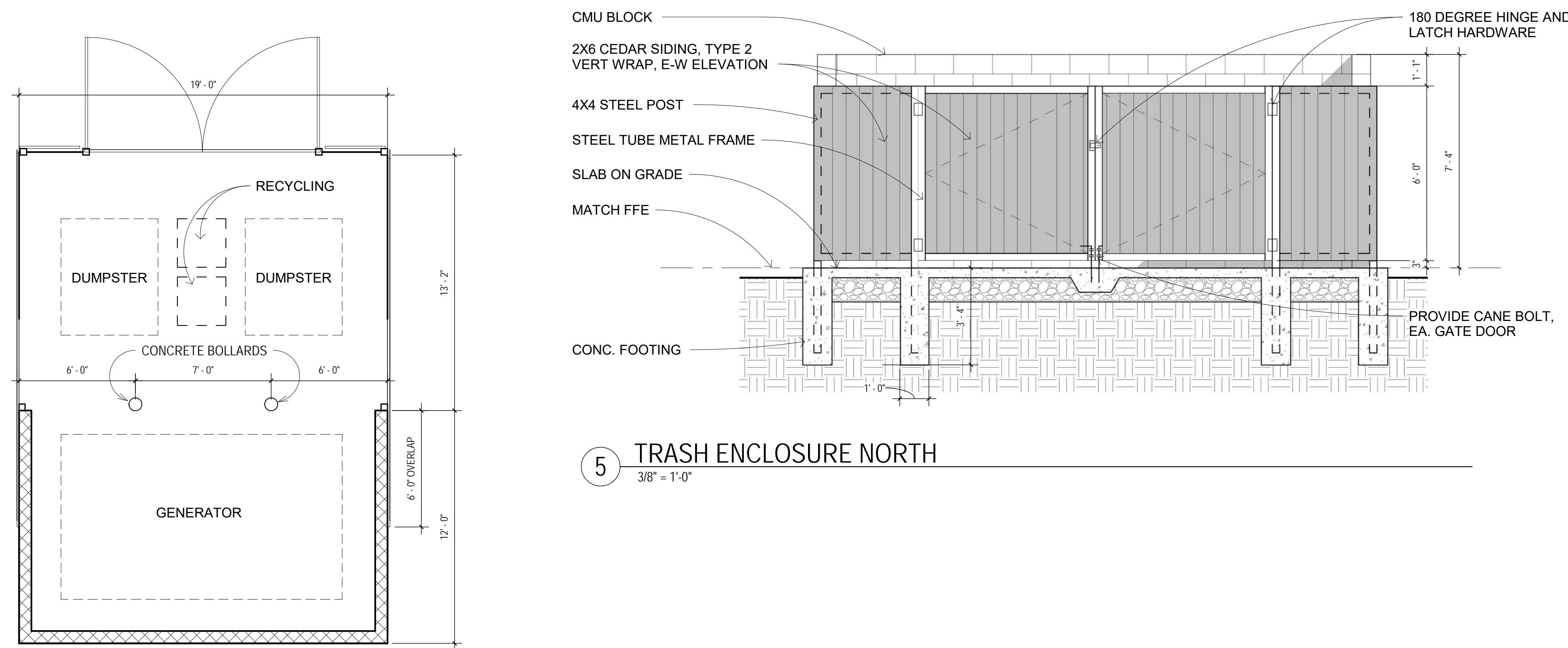
- REFER TO T1.0 FOR PROJECT GENERAL NOTES.
- REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
- SEE BUILDING SECTIONS FOR EXTERIOR WALL AND ROOF ASSEMBLIES
- REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
- DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
- SEE A10.1 FOR FINISHES ON EXTERIOR BUILDING COMPONENTS SCHEDULE.
- STOREFRONT AND CURTAINWALL ALUMINUM WINDOW SYSTEMS NOT INCLUDED IN WINDOW SCHEDULE. REFER TO ELEVATIONS.



1 EAST ELEVATION  
1/8" = 1'-0"



2 WEST ELEVATION  
1/8" = 1'-0"



5 TRASH ENCLOSURE NORTH  
3/8" = 1'-0"

4 TRASH AND GENERATOR ENCLOSURE  
1/4" = 1'-0"





BID  
DOCUMENTS

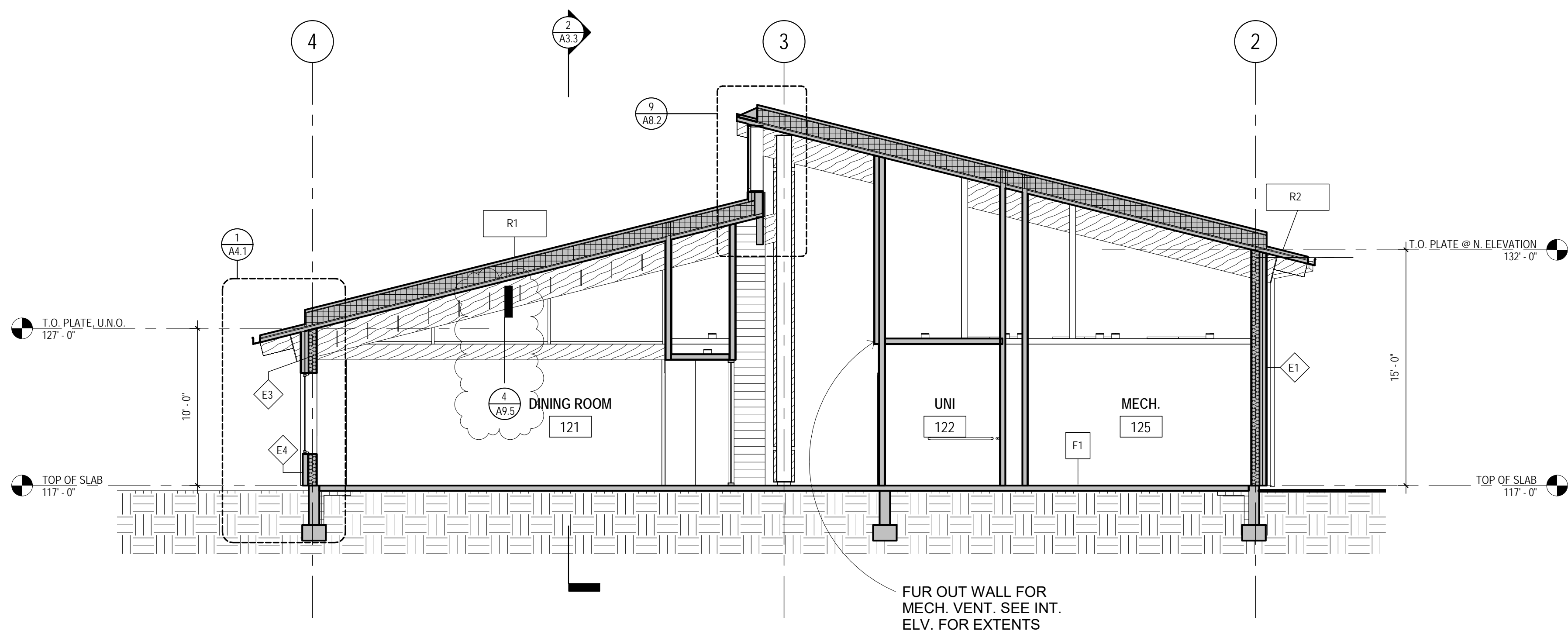
ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

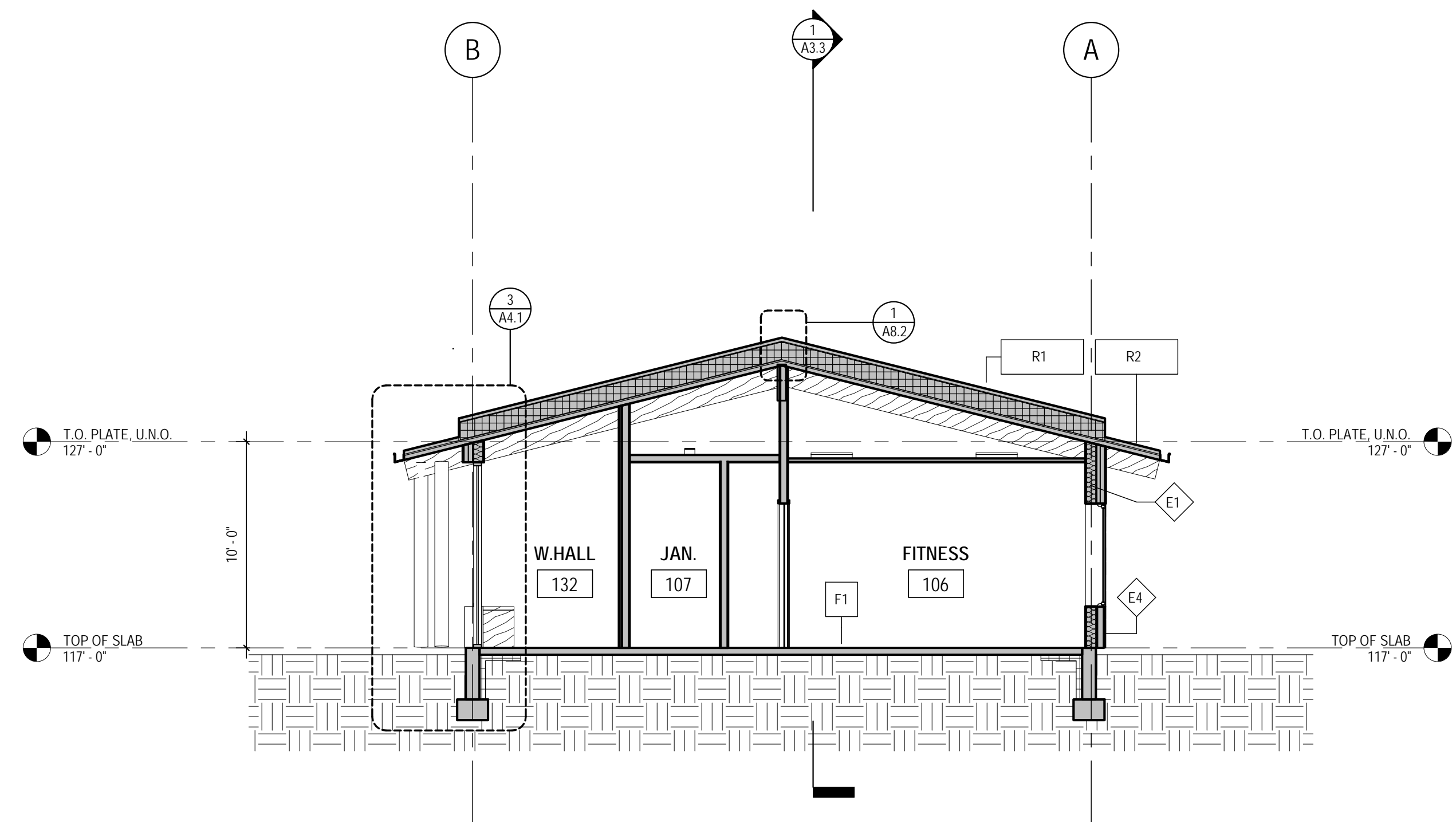
CONTENTS:  
BUILDING  
SECTIONS

SCALE: As indicated  
DRAWN: AW  
CHECKED: PRC  
PROJECT NO: 2020006.100

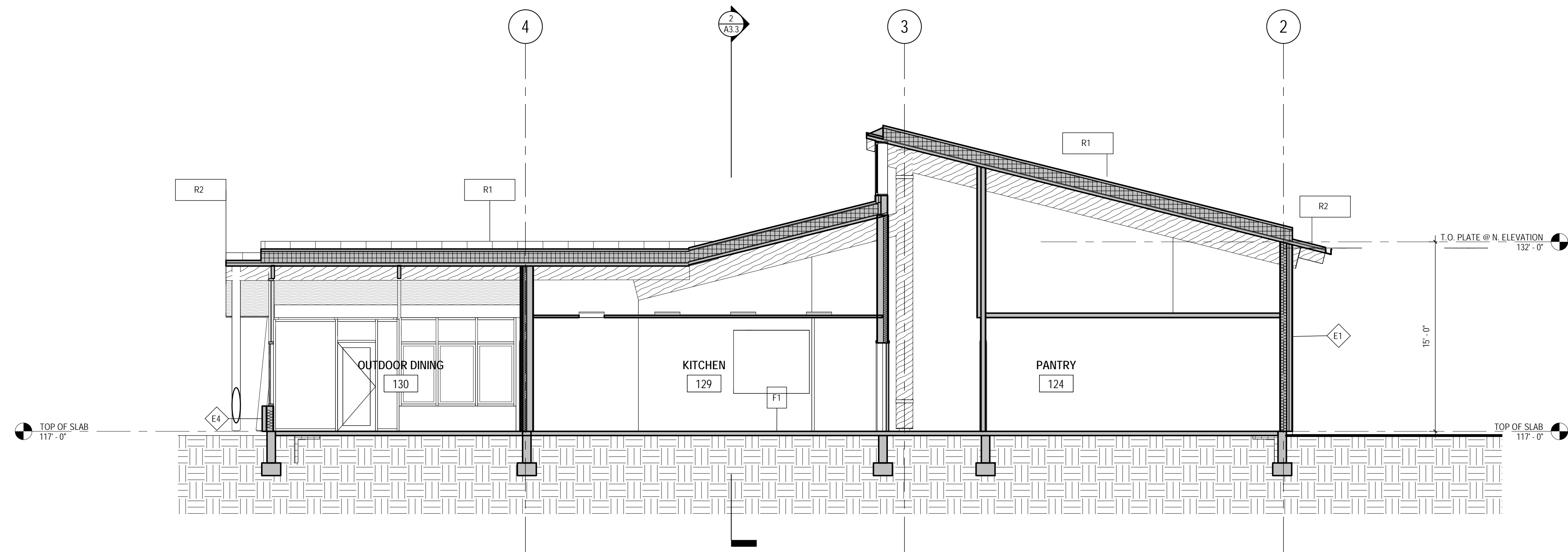
SHEET  
A3.4



1 N-S SECTION @ DINING ROOM  
3/16" = 1'-0"

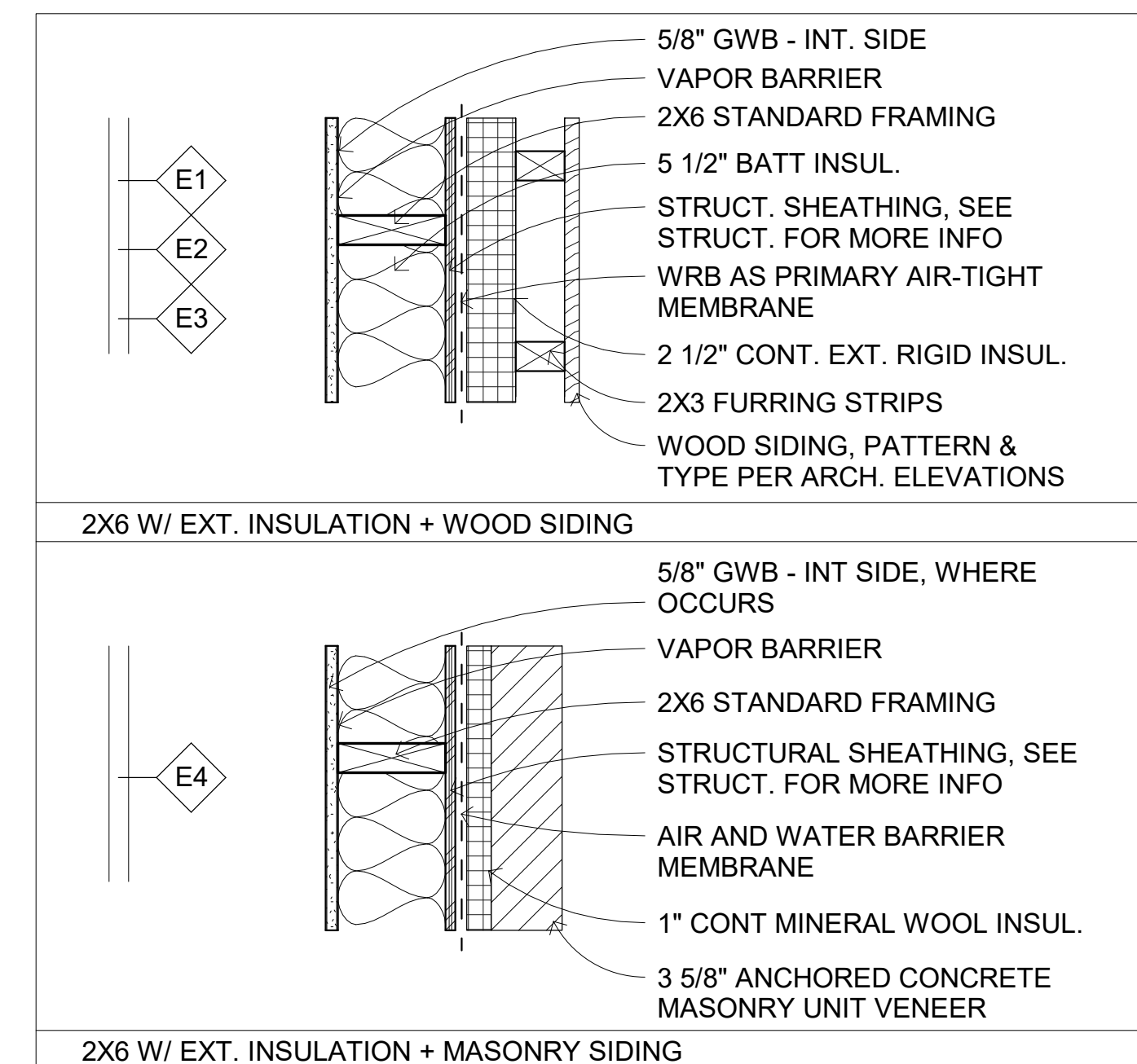


2 E-W SECTION @ FITNESS ROOM  
3/16" = 1'-0"

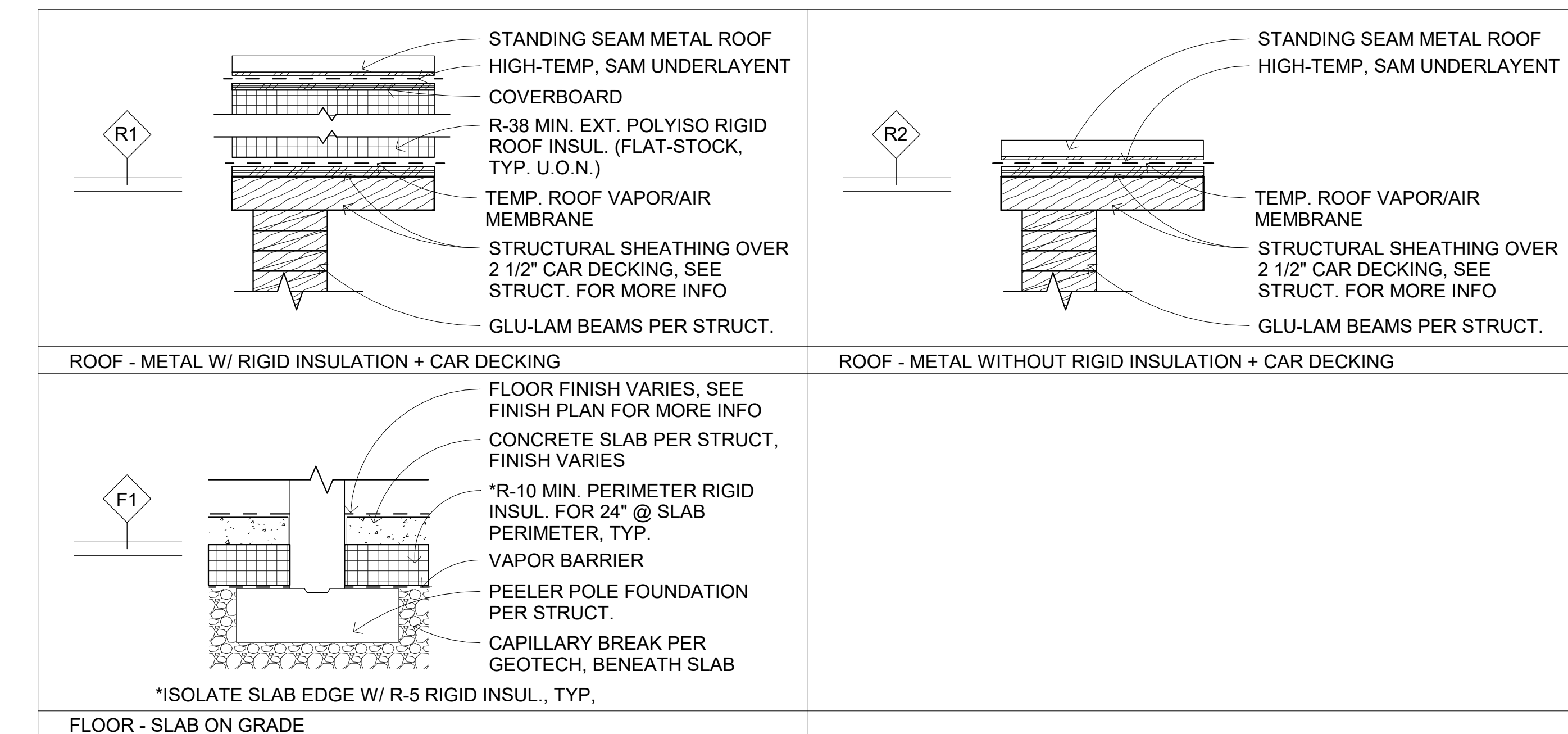


3 SECTION @ OUTDOOR DINING  
3/16" = 1'-0"

TYPICAL EXTERIOR WALL ASSEMBLIES



TYPICAL ROOF AND FLOOR ASSEMBLIES



SECTION NOTES:

1. REFER TO A1.1 FOR GENERAL NOTES
2. SEE BUILDING ELEVATIONS FOR WALL EXTERIOR CLADDING AND INTERIOR WALL FINISH LOCATIONS.
3. REFER TO ROOF PLANS FOR ROOF DETAIL, CALLOUT, AND DESCRIPTIONS.
4. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
5. SEE A8.1 FOR TYPICAL WALL PENETRATION WATERPROOFING DETAILS.
6. SEE CODE SHEET FOR WINDOW, DOOR, AND SKYLIGHT U-VALUE & SHGC MIN. REQUIREMENTS.
7. IN ADDITION TO THOSE LISTED ON THE BUILDING SECTIONS, SEE CODE SHEET FOR R-VALUE MINIMUM REQUIREMENTS
8. PLATE HEIGHT FOR FRAMING INDICATED AT INTERIOR STRUCTURAL STUD AND ROOF BEAM CONNECTION.
9. STRUCTURAL ELEMENTS SHOWN FOR DESIGN INTENT ONLY, SEE STRUCTURAL DWGS. FOR ADDITIONAL INFO.



NIEDERMAN RD  
OAKVILLE, WA 98568



ISSUE DATE: APRIL 16, 2021

[illegible]

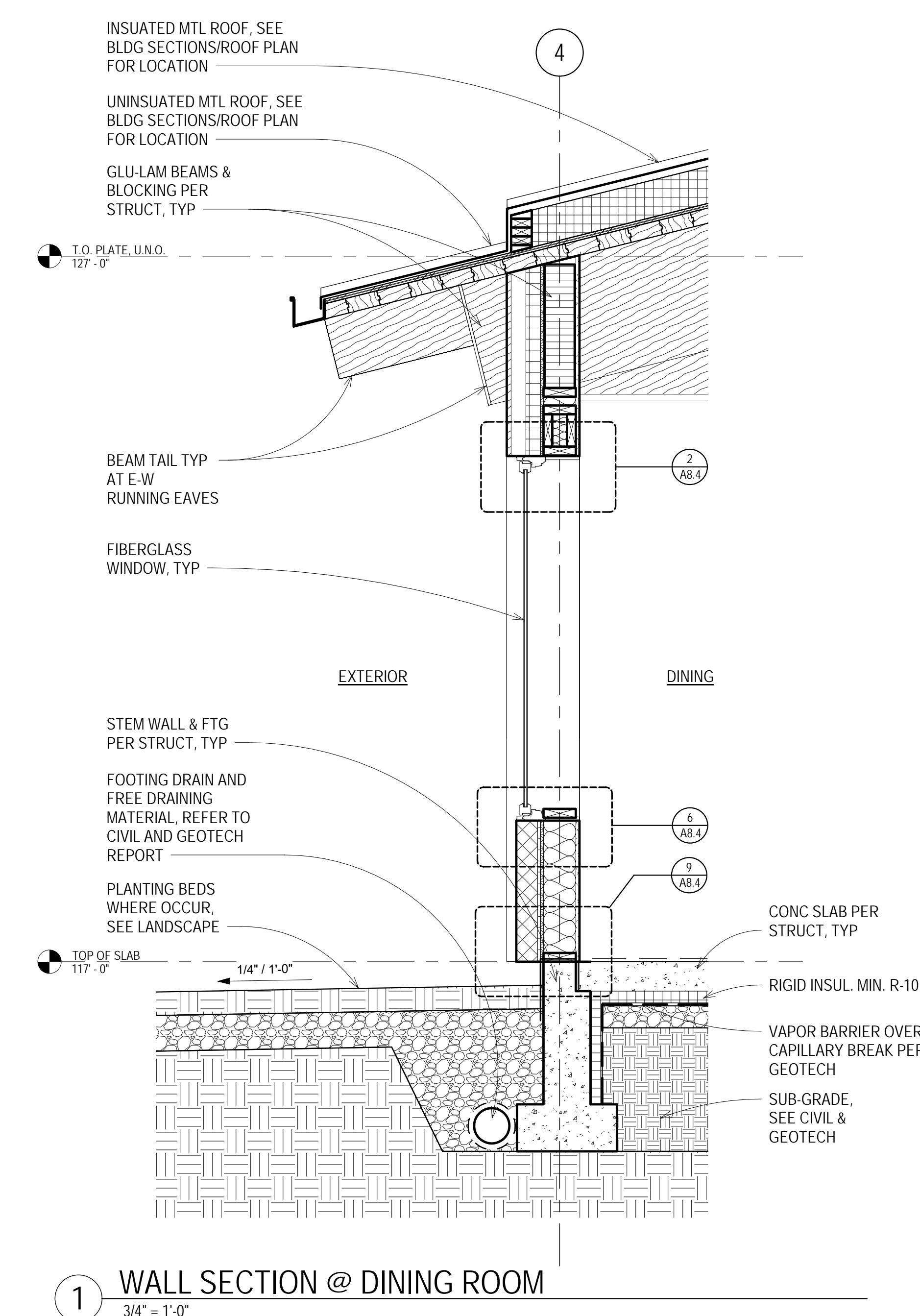
## CONTENTS:

SCALE:	As indicated
DRAWN:	PRC
CHECKED:	SWL
PROJECT NO:	2020006.100

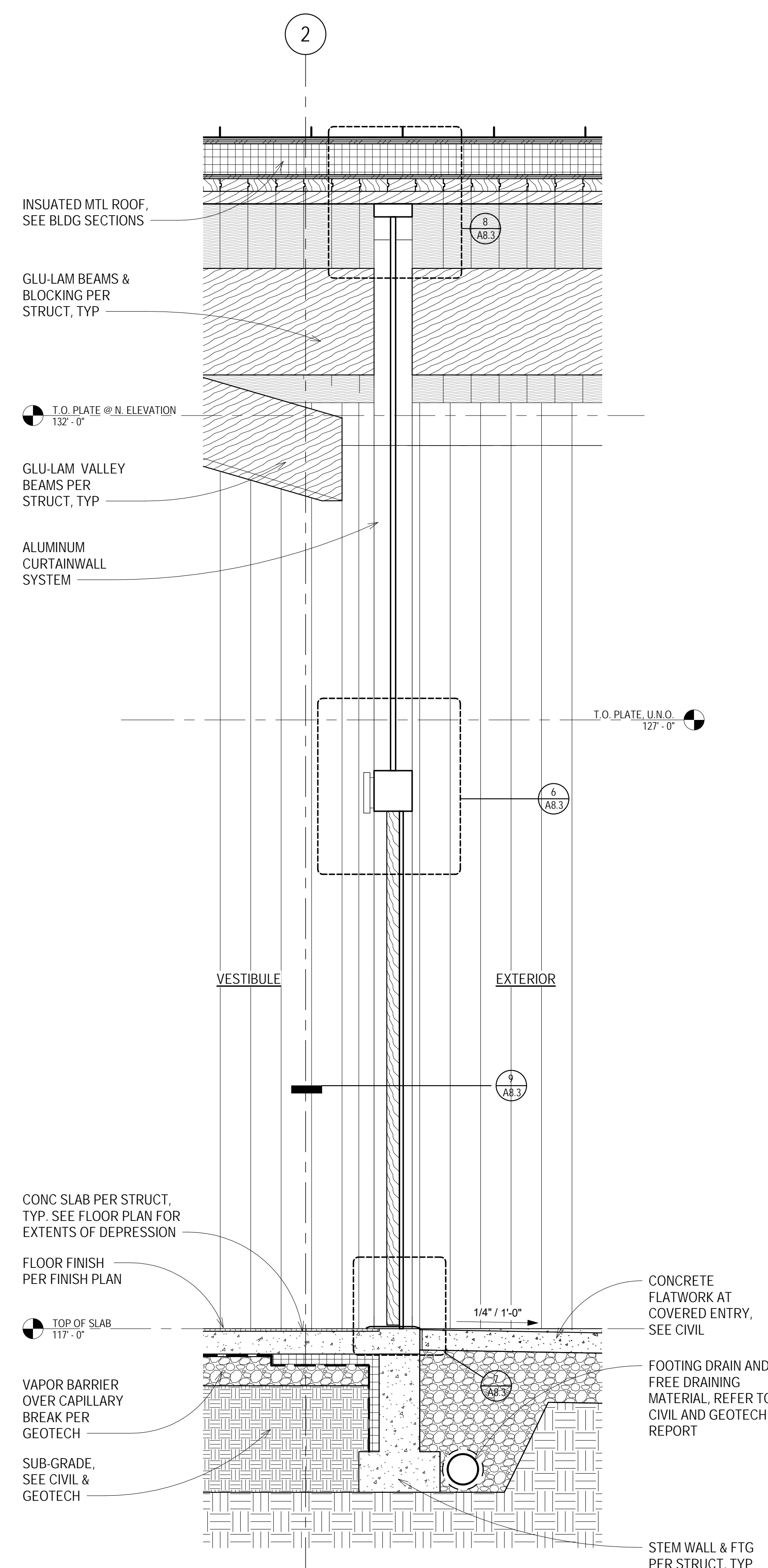
SHEE

## A4.1

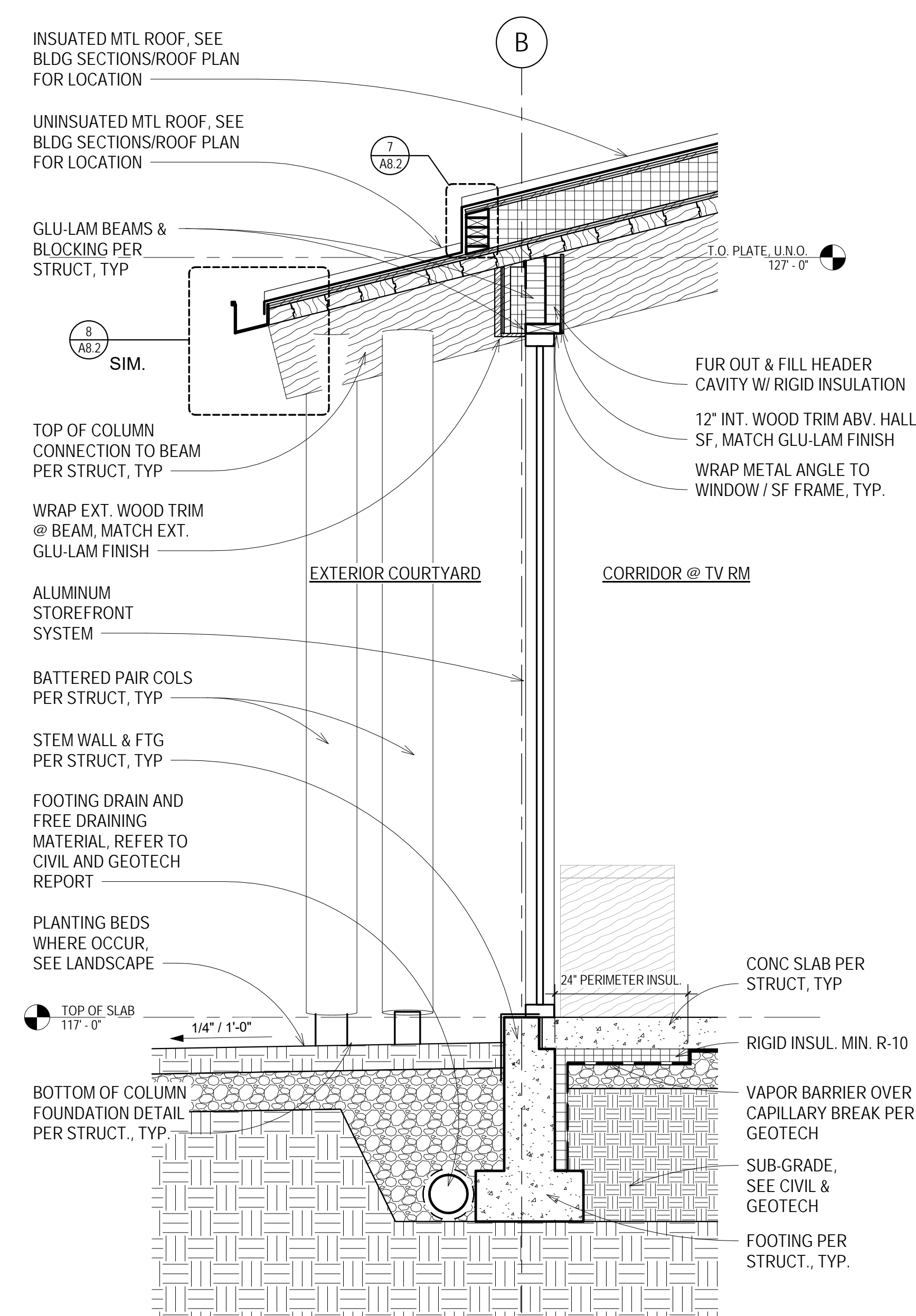
1. REFER TO BUILDING SECTIONS FOR WALL, ROOF AND FLOOR ASSEMBLIES.
2. REFER TO DETAILS FOR COMPLETE DESCRIPTION. DETAILS ON WALL SECTIONS ARE DIAGNOSTIC.
3. WALL SECTIONS SHOW FOOTINGS BEARING ON UNDISTURBED SOIL. THIS IS ONLY ALLOWABLE IF SOIL AT BOTTOM OF EXCAVATION MEETS MINIMUM BEARING CAPACITIES. OTHERWISE FOOTINGS MAY BE RESTING ON IMPORTED STRUCTURAL FILL. SEE CIVIL AND GEOTECHNICAL REPORT FOR REQUIREMENTS.



1 WALL SECTION @ DINING ROOM  
3/4" = 1'-0"



2 WALL SECTION @ VESTIBULE  
3/4" = 1'-0"



3 WALL SECTION @ TV RM CORRIDOR  
3/4" = 1'-0"





BID  
DOCUMENTS

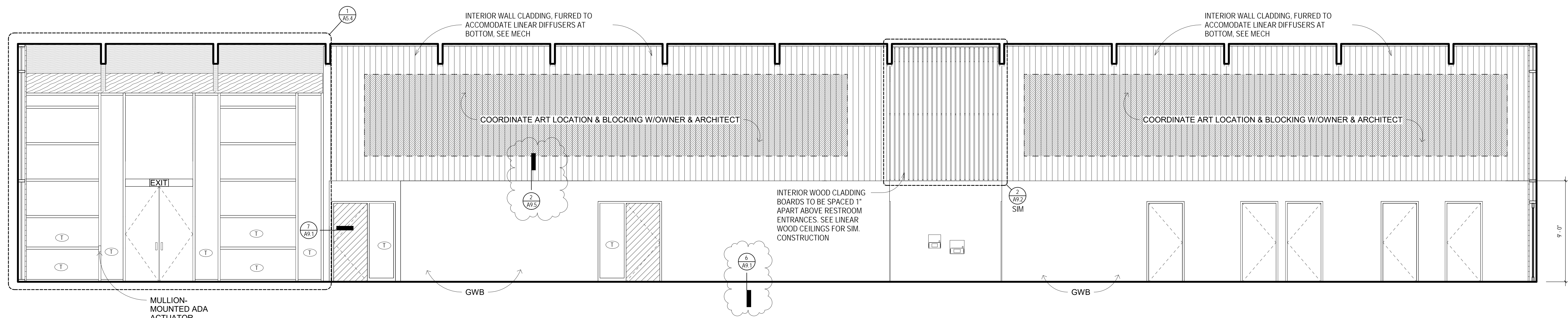
ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

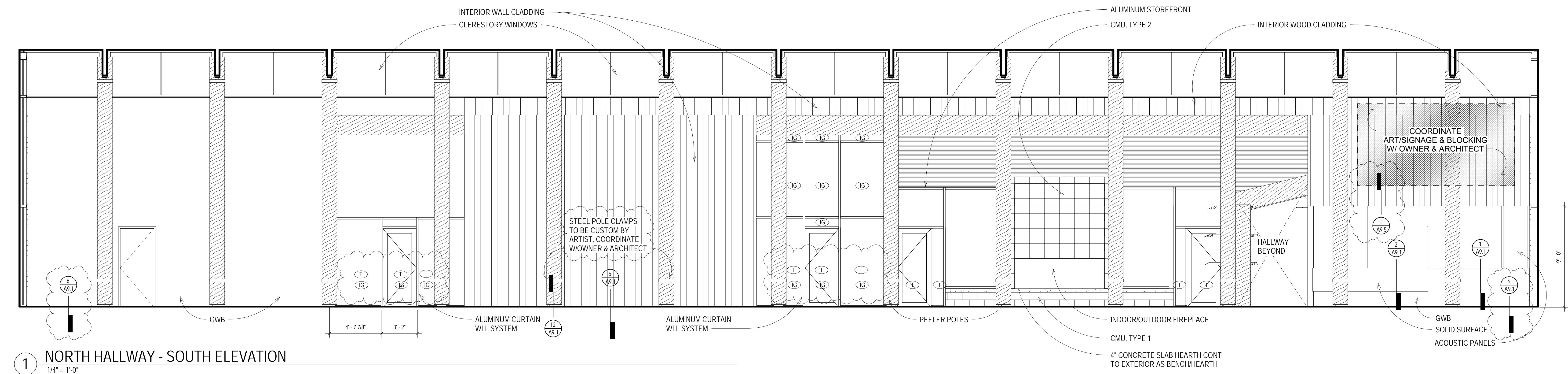
CONTENTS:  
INTERIOR  
ELEVATIONS

SCALE: 1/4" = 1'-0"  
DRAWN: AW  
CHECKED: PRC  
PROJECT NO: 2020006.100

SHEET  
A5.1



2 NORTH HALLWAY - NORTH ELEVATION  
1/4" = 1'-0"



1 NORTH HALLWAY - SOUTH ELEVATION  
1/4" = 1'-0"





BID  
DOCUMENTS

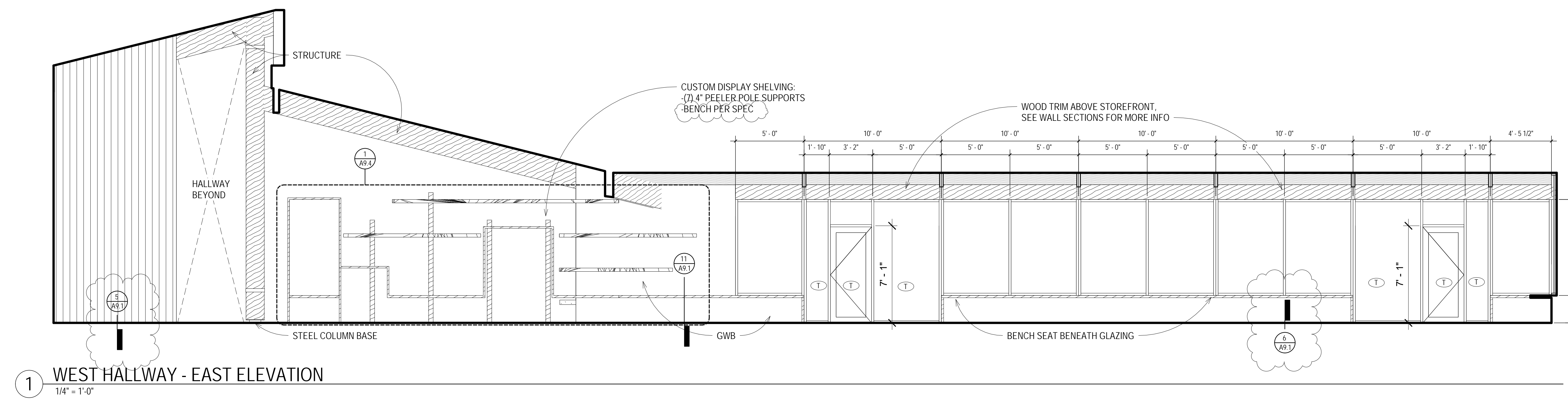
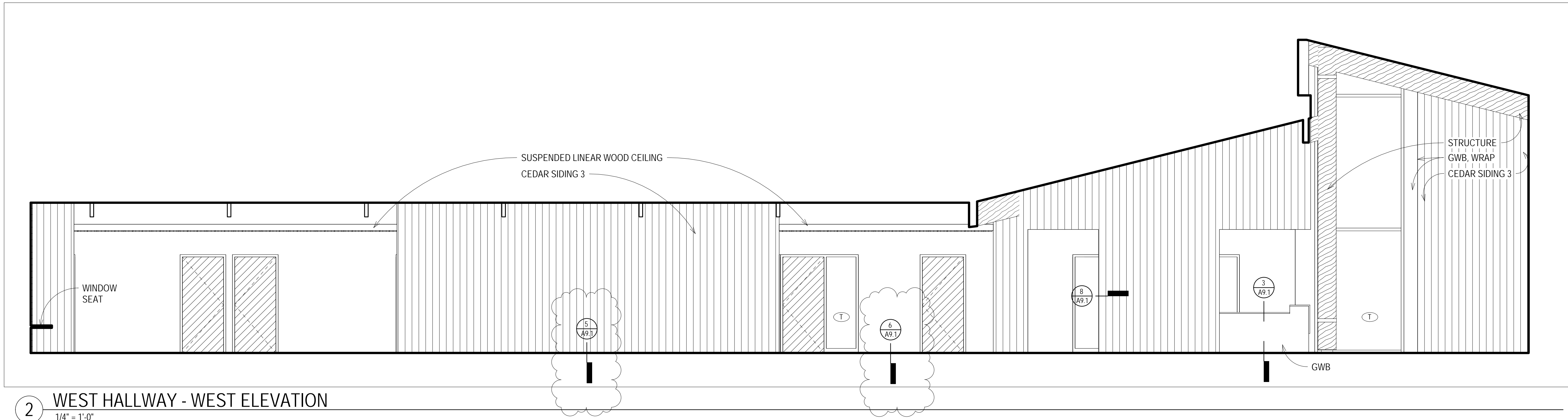
ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

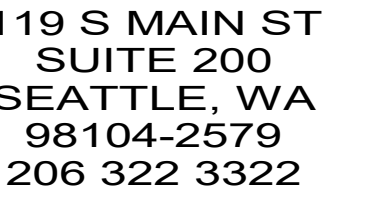
CONTENTS:  
INTERIOR  
ELEVATIONS

SCALE: 1/4" = 1'-0"  
DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 2020006.100

SHEET:  
A5.2







**OAKVILLE, WA 98568**



REVISION	DATE	DESCRIPTION
ADDENDUM 1	JUNE 14, 2021	

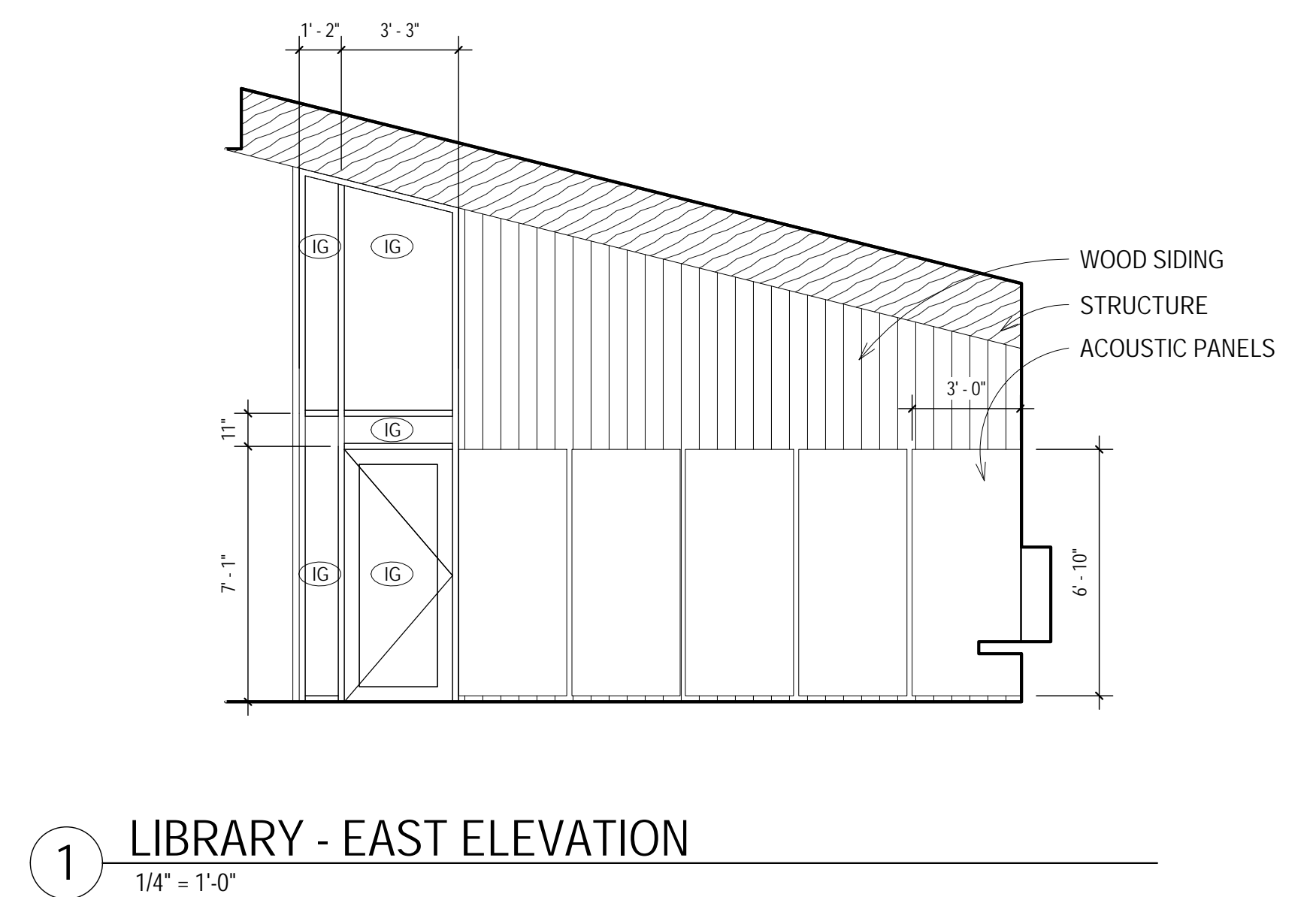
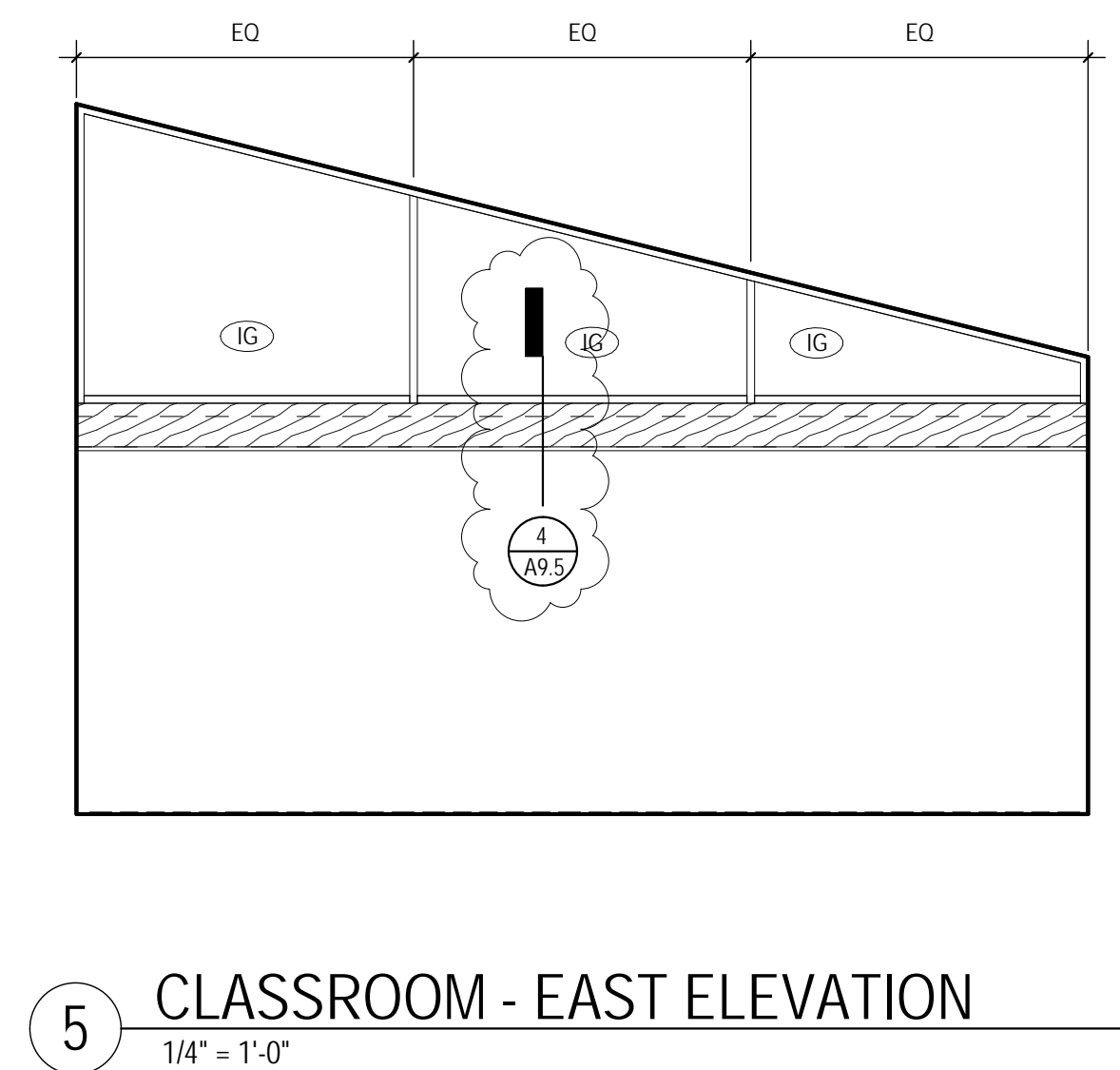
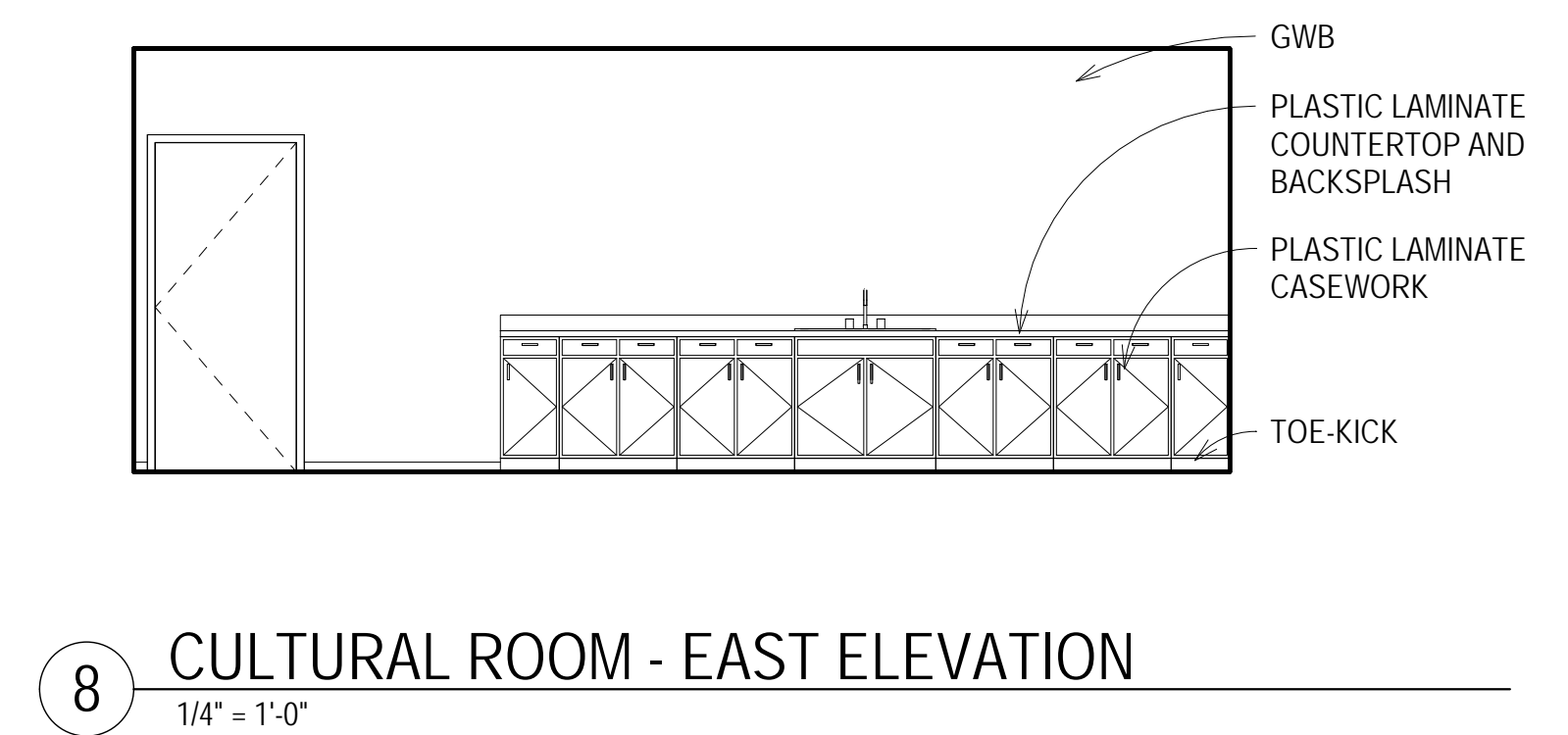
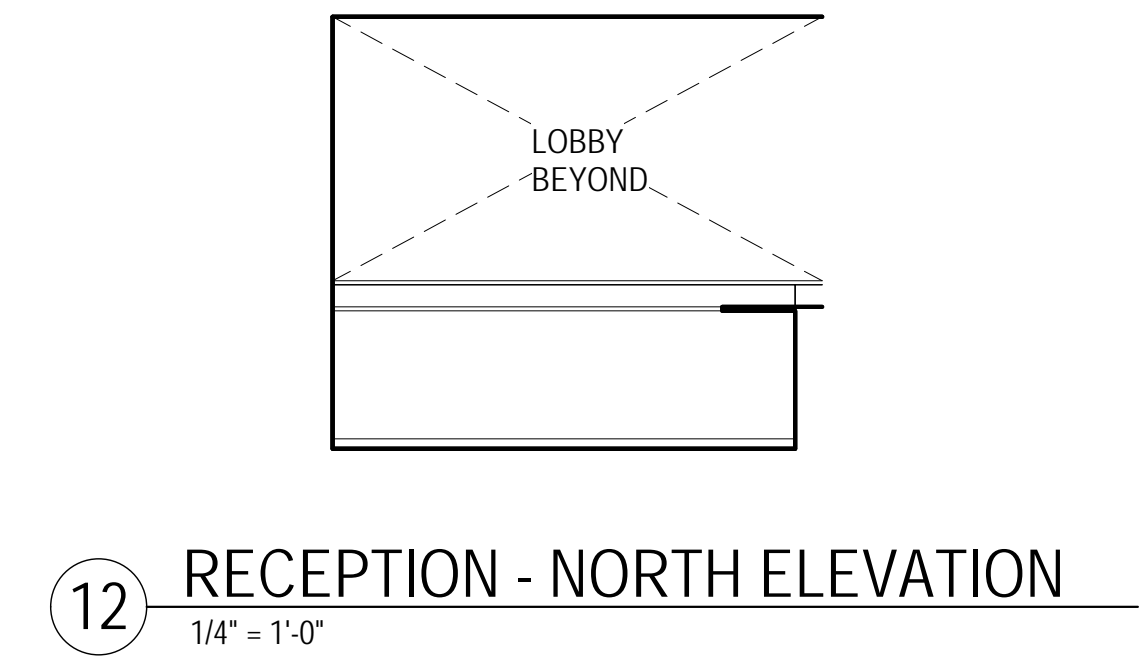
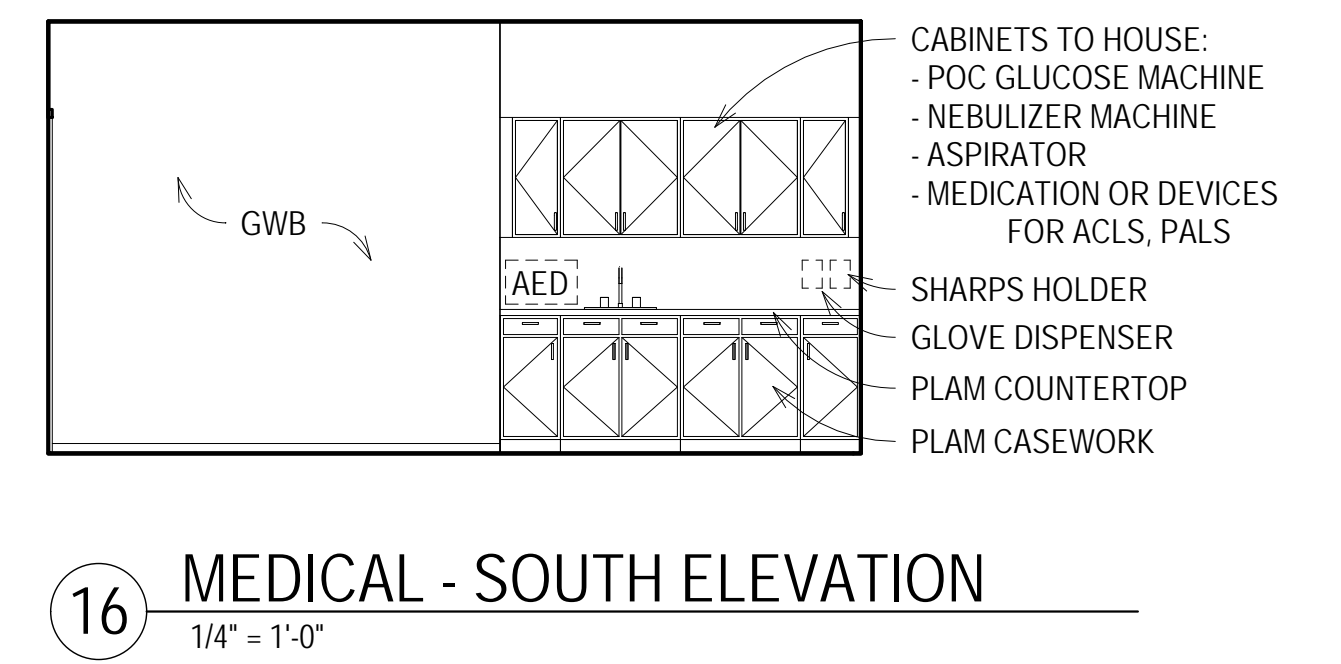
## CONTENTS:

### INTERIOR ELEVATIONS

SCALE:	1/4" = 1'-0"
DRAWN:	AW
CHECKED:	PRC
PROJECT NO:	2020006.100

MEET:

### A5.3







BID  
DOCUMENTS

ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

CONTENTS:  
RESTROOM PLANS  
AND INTERIOR  
ELEVATIONS

SCALE: 1/4" = 1'-0"  
DRAWN: AAW  
CHECKED: PRC  
PROJECT NO: 2020006.100

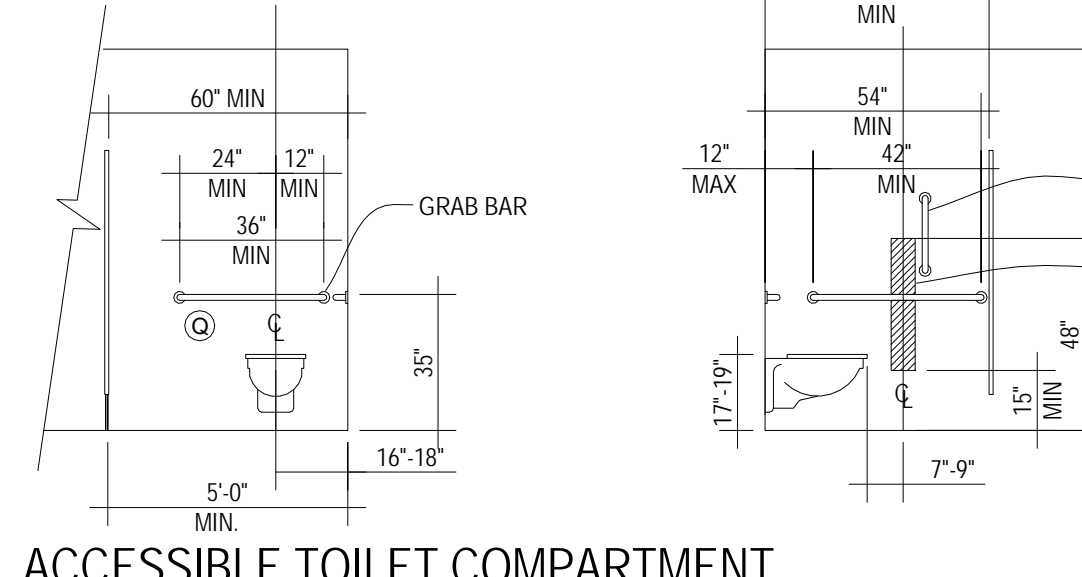
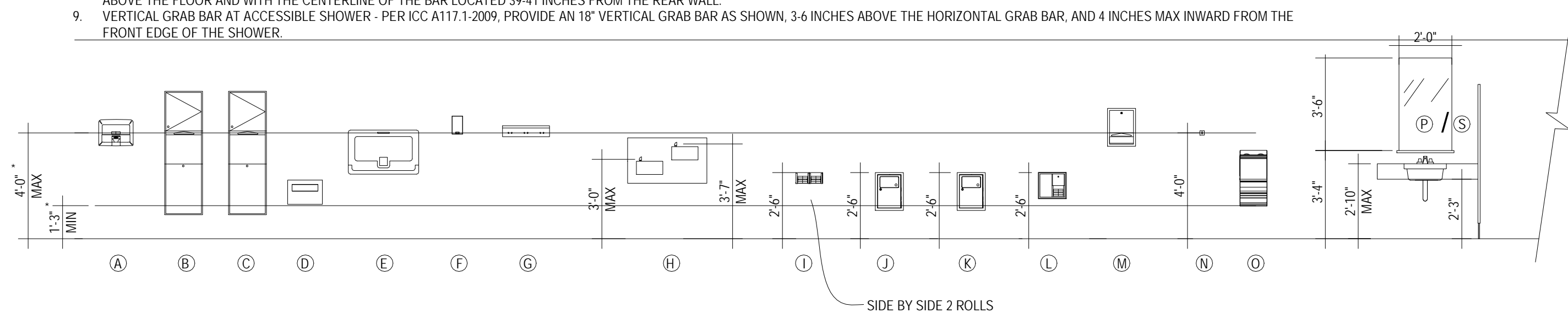
SHEET  
A5.5

LEGEND

- |   |                               |   |   |                        |                |                              |
|---|-------------------------------|---|---|------------------------|----------------|------------------------------|
| A WARM-AIR DRYER  | D TOILET SEAT COVER DISPENSER | G UTILITY SHELF W/ MOP/BROOM<br>HOLDERS AND RAG HOOKS | J RECESSED SANITARY NAPKIN<br>DISPOSAL UNIT           | M TOILET PAPER HOLDER  | P MIRROR       | S MIRROR W/ MEDICINE CABINET |
| B COMBINATION TOWEL<br>DISPENSER / WASTE RECEPTACLE,<br>RECESSED      | E DIAPER CHANGING STATION     | H DRINKING FOUNTAINS                                  | K SURFACE MOUNTED<br>SANITARY NAPKIN DISPOSAL<br>UNIT | N TOWEL HOOK           | Q GRAB BAR     | T TOWEL SHELF                |
| C COMBINATION TOWEL<br>DISPENSER/WASTE RECEPTACLE,<br>SURFACE MOUNTED | F LIQUID SOAP DISPENSER       | I TOILET PAPER DISPENSER W/<br>STORAGE FOR EXTRA ROLL | L MULTI-ROLL TOILET TISSUE<br>DISPENSER               | O AIR BLADE HAND DRYER | R SHOWER BENCH | U TOWEL BAR                  |

NOTES

1. MAX AND MIN DIMENSIONS ARE FOR UNOBSTRUCTED, FORWARD AND SIDE REACH RANGES PER SECTION 308 OF THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. DIMENSIONS ARE TAKEN FROM FINISH FLOOR TO THE OPERABLE PART OF RECEPTACLE, U.O.N.
3. DRINKING FOUNTAINS - DIMENSION TO SPOUT OUTLETS
4. LAVATORIES - DIMENSION TO TOP OF RIM OR COUNTER SURFACE, WHICHEVER IS HIGHER.
5. MIRROR ABOVE LAVATORIES - DIMENSION TO BOTTOM OF REFLECTING SURFACE.
6. GRAB BARS - DIMENSION TO TOP OF GRIPPING SURFACE.
7. PROVIDE BLOCKING AS REQUIRED FOR ATTACHMENT OF ALL ACCESSORIES.
8. VERTICAL GRAB BAR AT ACCESSIBLE TOILET - PER ICC-A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, WITH THE BOTTOM OF THE BAR LOCATED 39-41 INCHES ABOVE THE FLOOR AND WITH THE CENTERLINE OF THE BAR LOCATED 39-41 INCHES FROM THE REAR WALL.
9. VERTICAL GRAB BAR AT ACCESSIBLE SHOWER - PER ICC A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, 3-6 INCHES ABOVE THE HORIZONTAL GRAB BAR, AND 4 INCHES MAX INWARD FROM THE FRONT EDGE OF THE SHOWER.

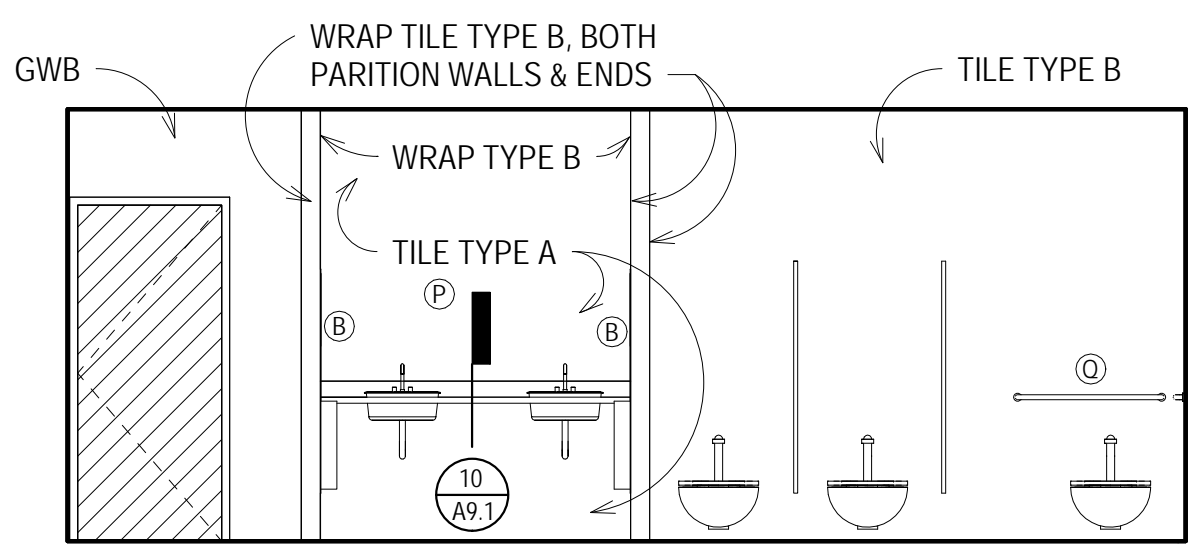


ACCESSIBLE TOILET COMPARTMENT

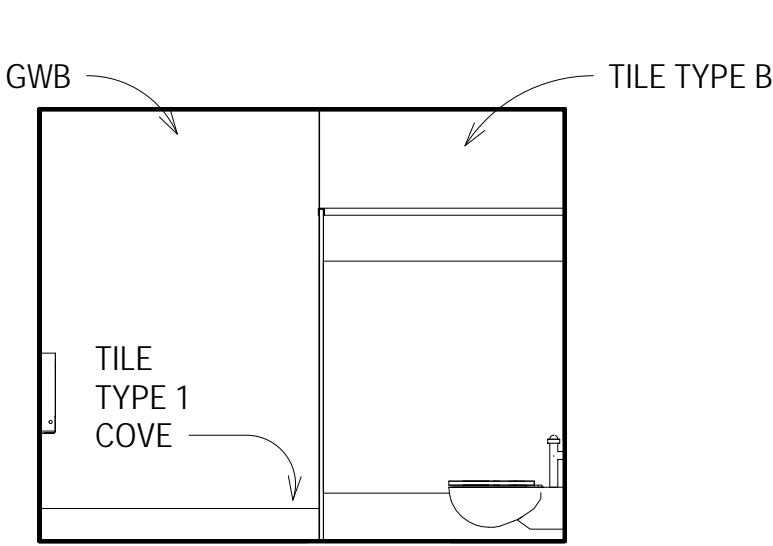
SEE SPECIFICATIONS FOR ADDITIONAL ACCESSORY INFORMATION

1 TYPICAL RESTROOM ACCESSORIES

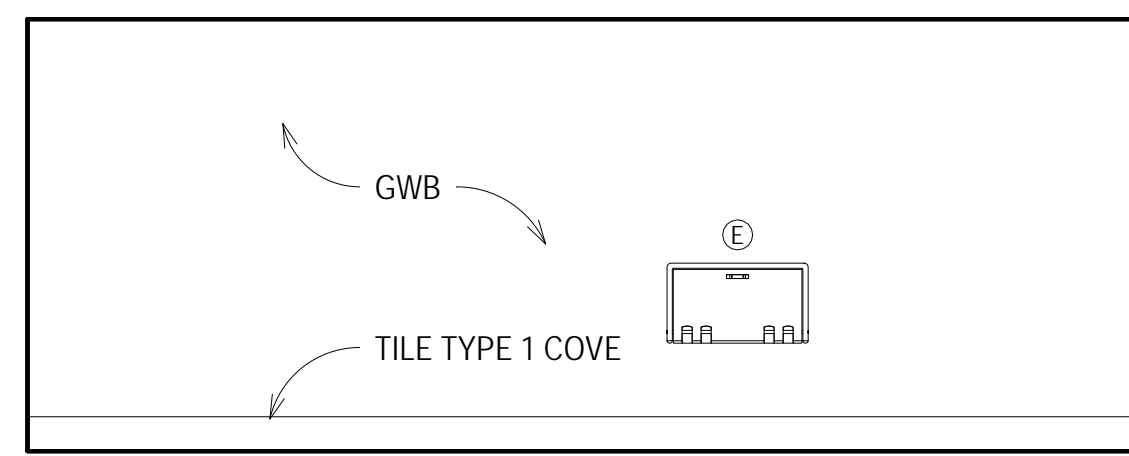
SCALE: 1/4" = 1'-0"



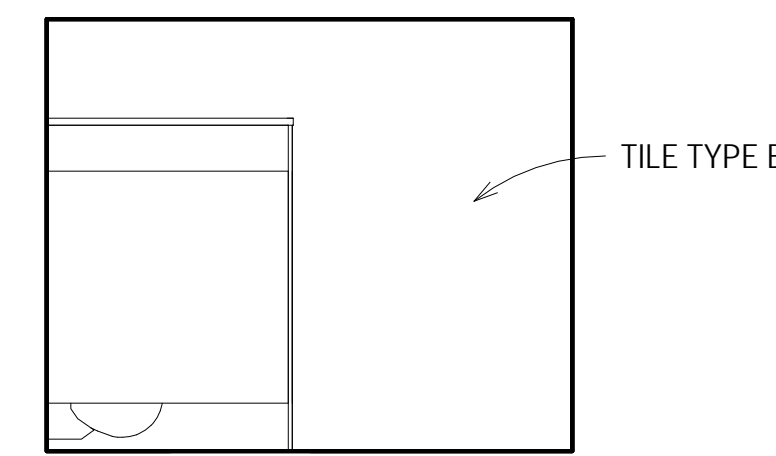
18 WOMENS RR - WEST ELEVATION  
1/4" = 1'-0"



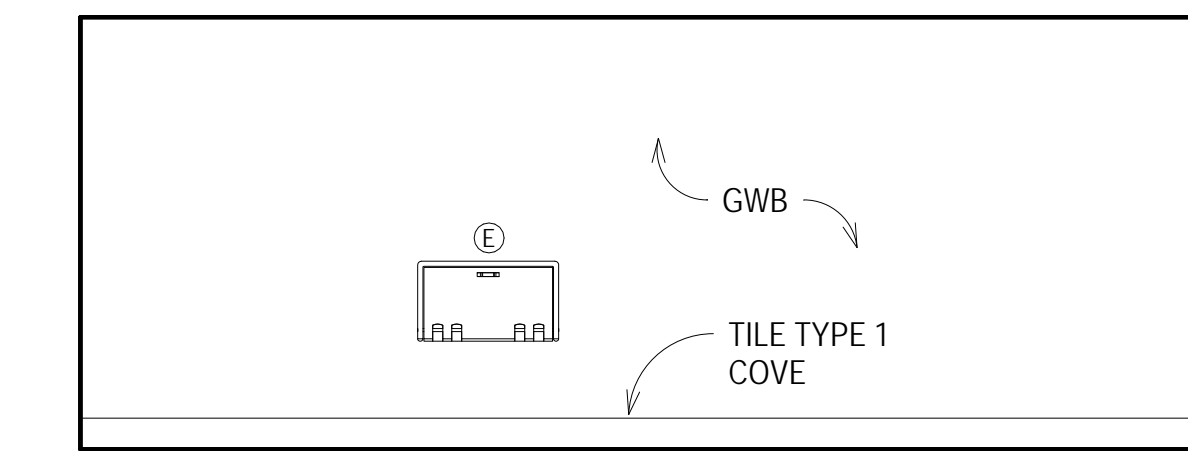
17 WOMENS RR - SOUTH ELEVATION  
1/4" = 1'-0"



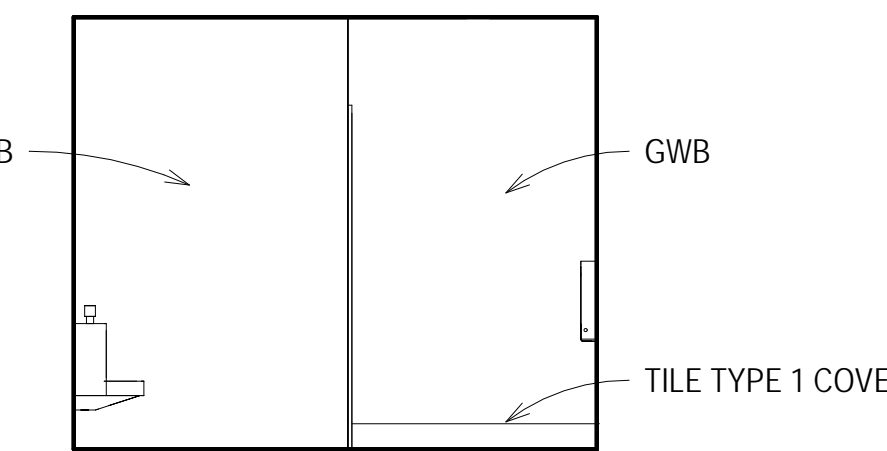
16 WOMENS RR - EAST ELEVATION  
1/4" = 1'-0"



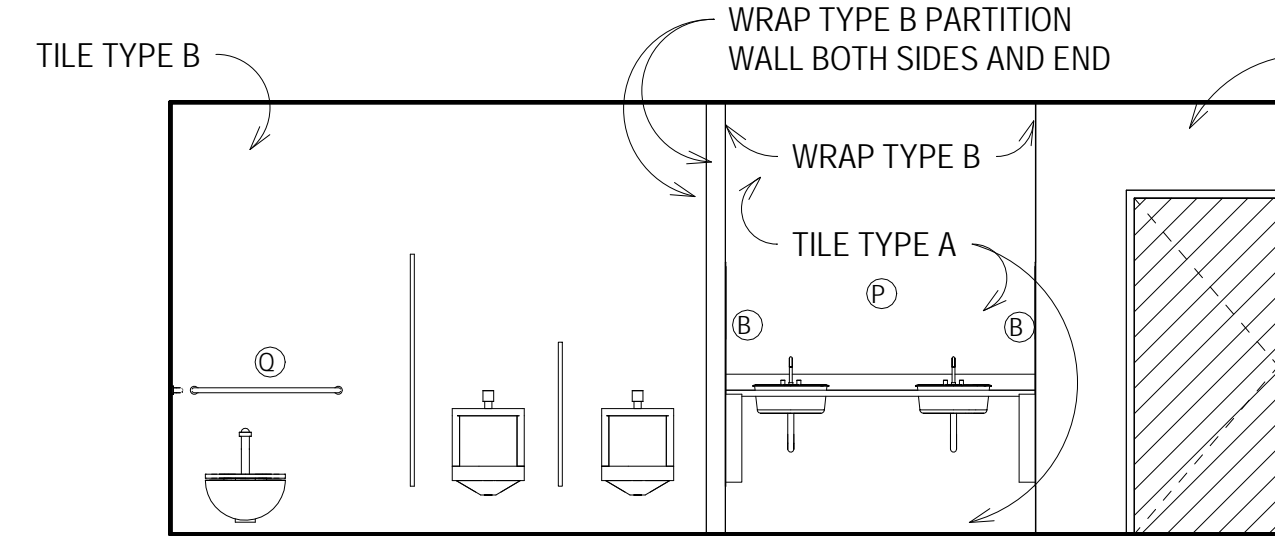
15 WOMENS RR - NORTH ELEVATION  
1/4" = 1'-0"



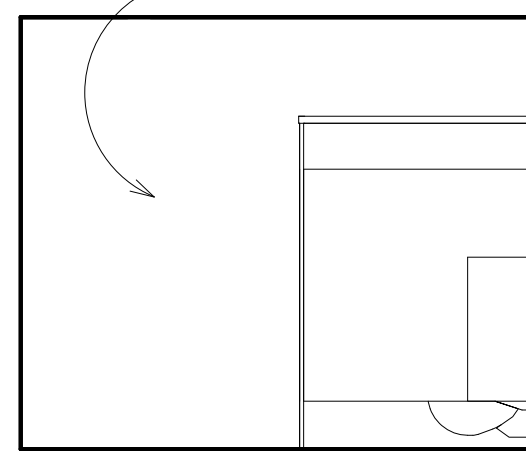
14 MENS RR - WEST ELEVATION  
1/4" = 1'-0"



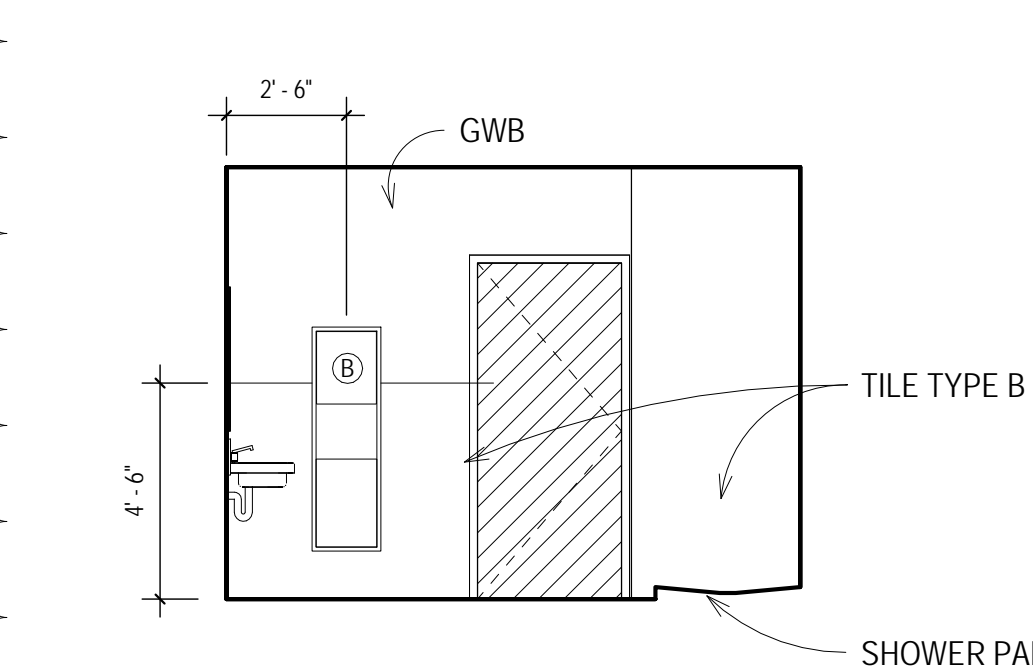
13 MENS RR - SOUTH ELEVATION  
1/4" = 1'-0"



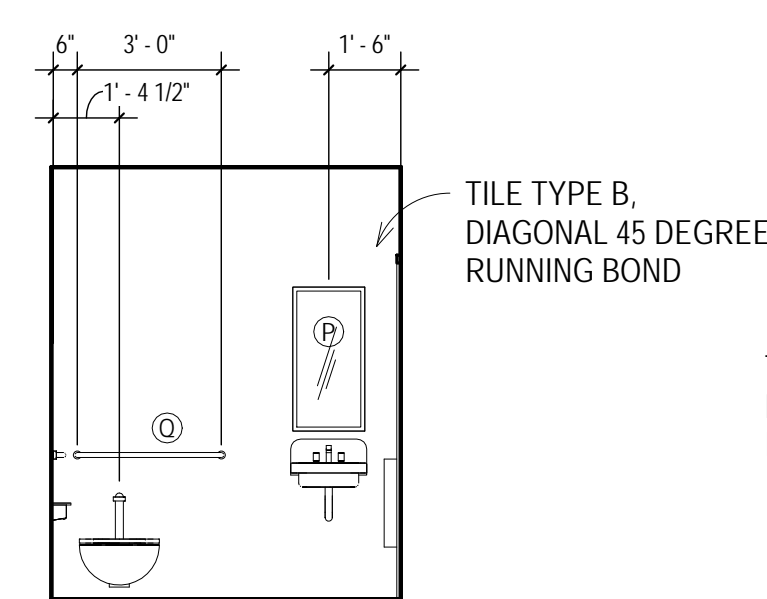
4 MENS RR - EAST ELEVATION  
1/4" = 1'-0"



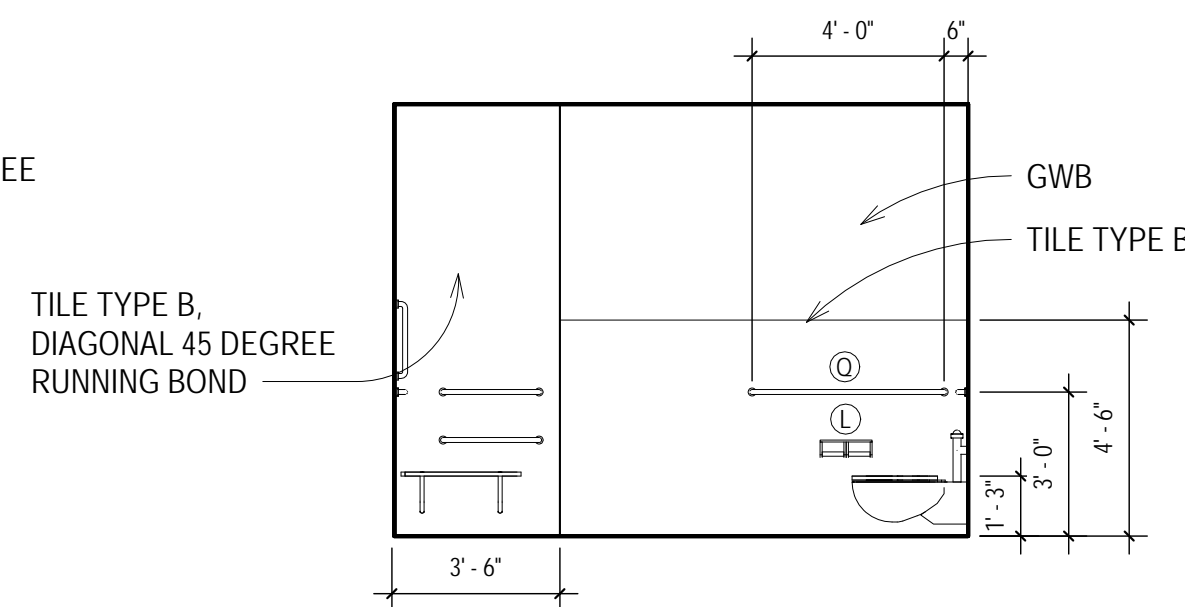
3 MENS RR - NORTH ELEVATION  
1/4" = 1'-0"



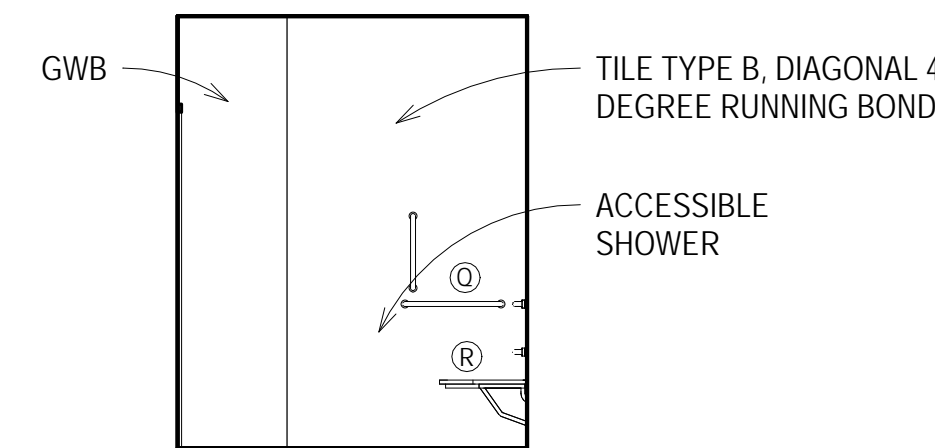
12 FITNESS RR - WEST ELEVATION  
1/4" = 1'-0"



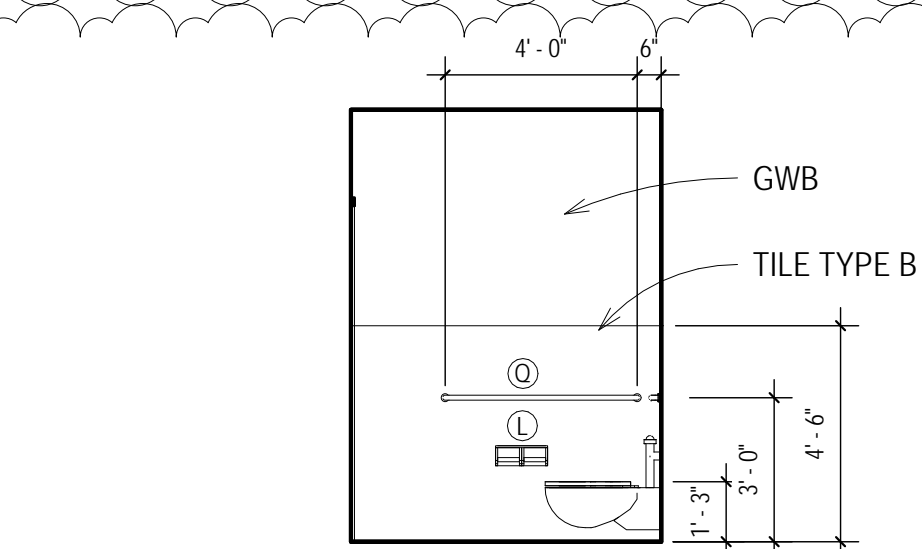
11 FITNESS RR - SOUTH ELEVATION  
1/4" = 1'-0"



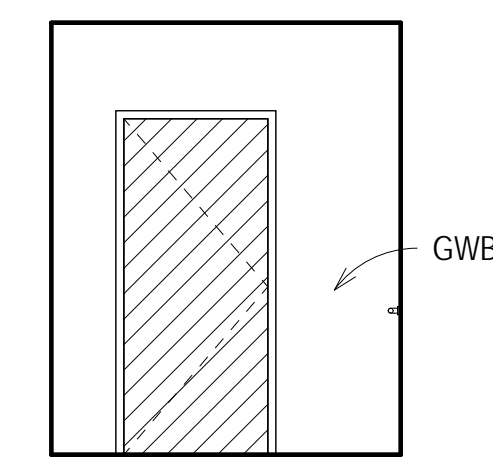
10 FITNESS RR - EAST ELEVATION  
1/4" = 1'-0"



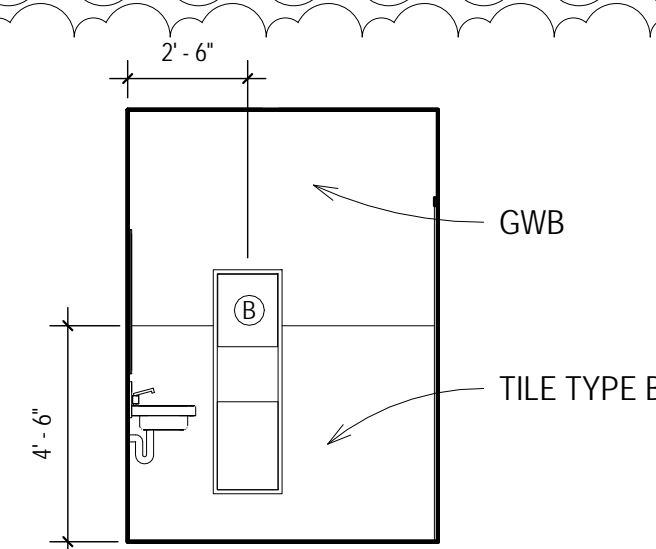
9 FITNESS RR - NORTH ELEVATION  
1/4" = 1'-0"



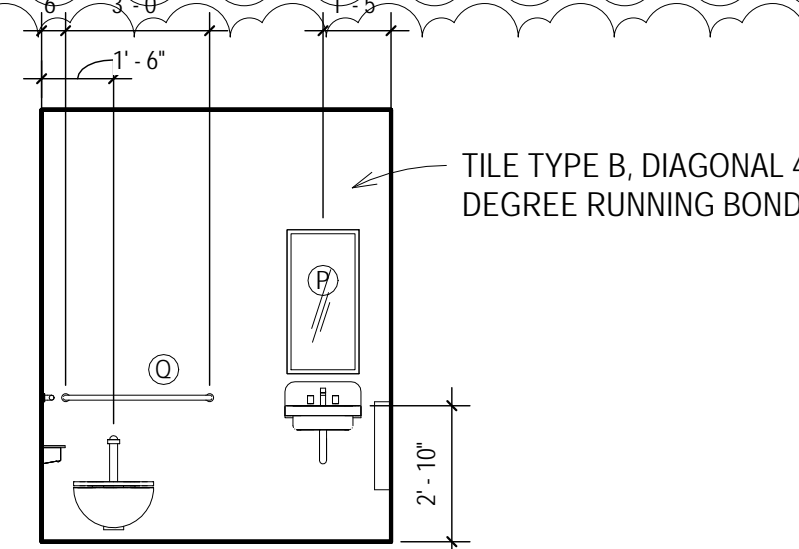
8 RR 109 - WEST ELEVATION  
1/4" = 1'-0"



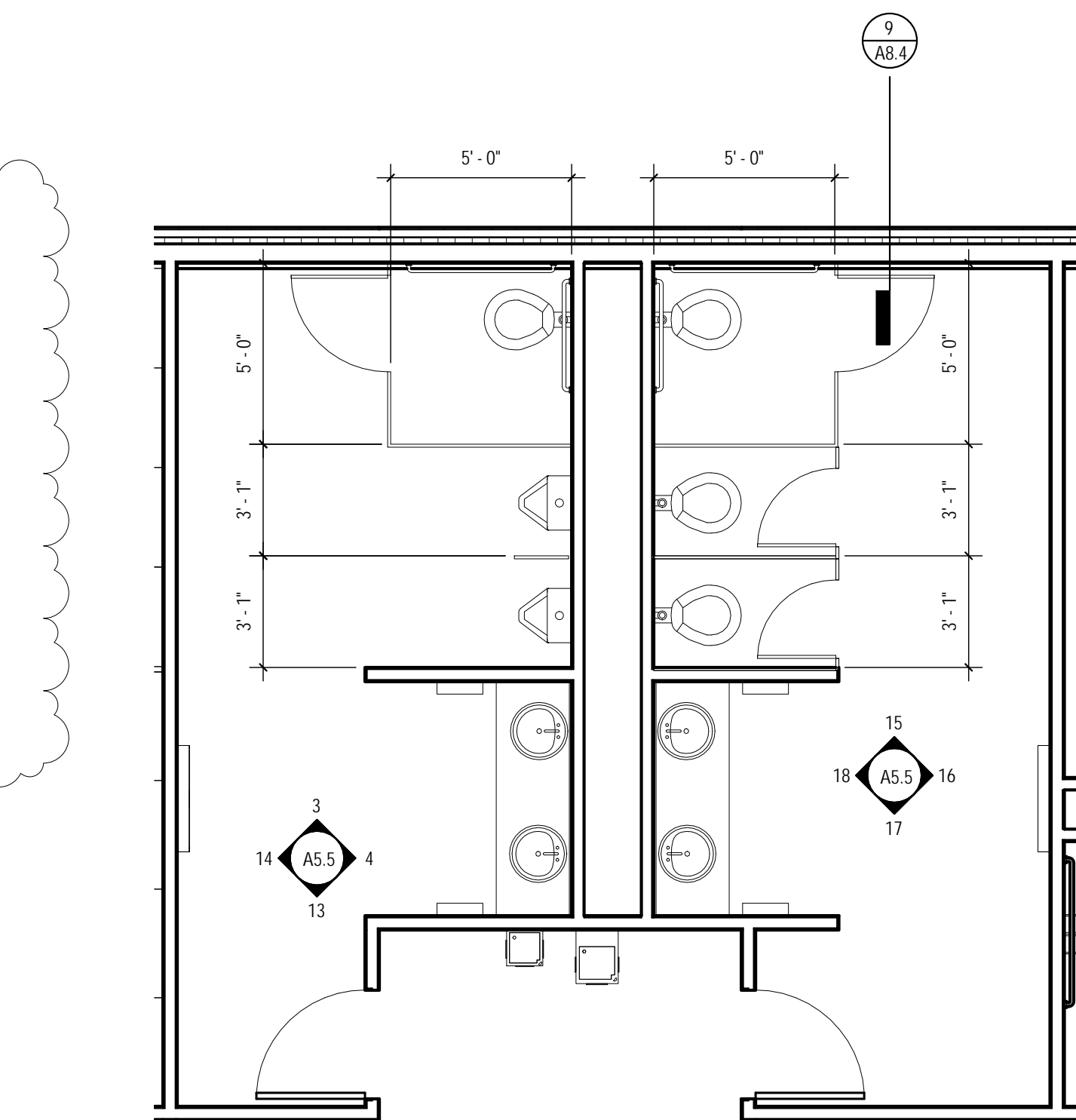
7 RR 109 - SOUTH ELEVATION  
1/4" = 1'-0"



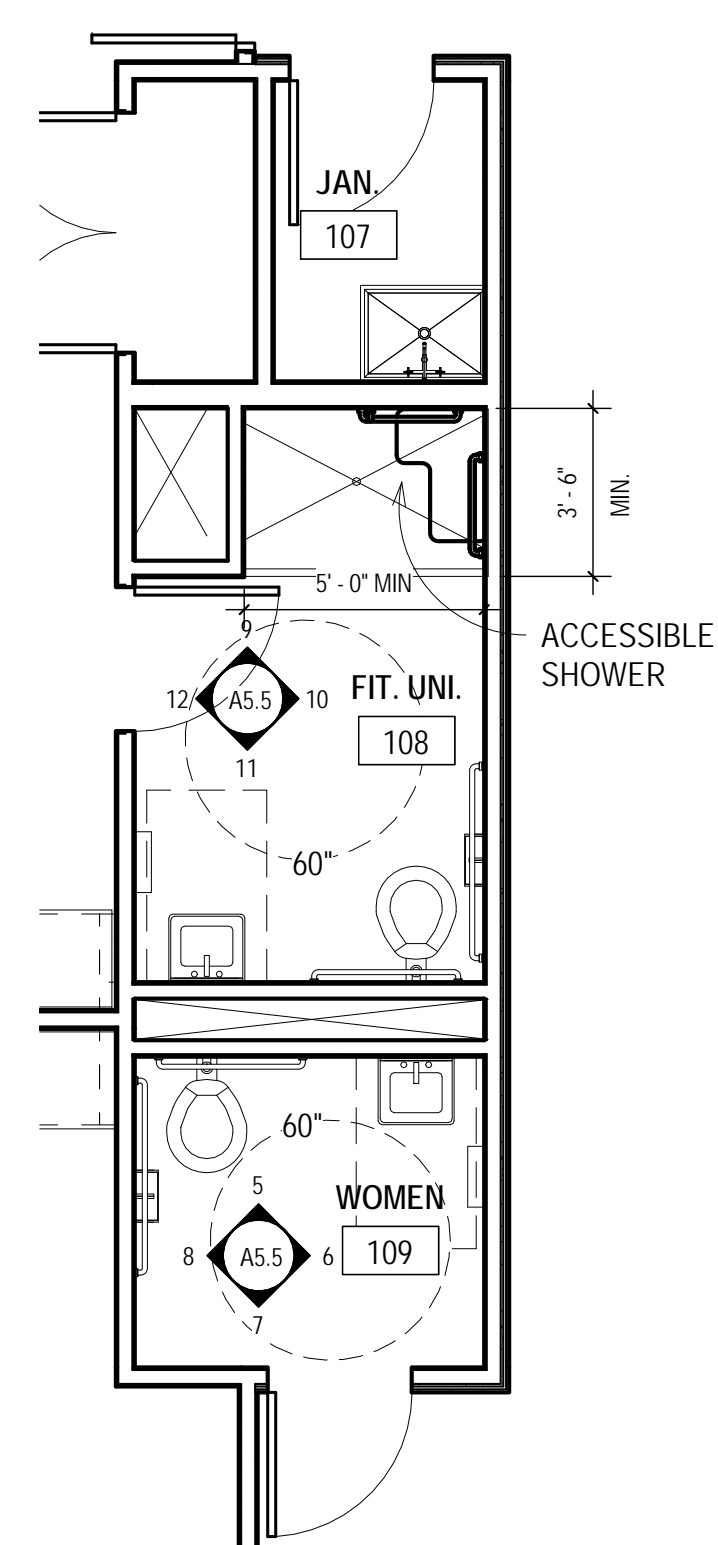
6 RR 109 - EAST ELEVATION  
1/4" = 1'-0"



5 RR 109 - NORTH ELEVATION  
1/4" = 1'-0"



1 ENLARGED MAIN RESTROOM PLAN  
1/4" = 1'-0"



2 ENLARGED RR - WOMEN AND FITNESS  
1/4" = 1'-0"





BID  
DOCUMENTS

ISSUE DATE: APRIL 16, 2021		
REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

CONTENTS:		
RESTROOM PLANS AND INTERIOR ELEVATIONS		
SCALE:	1/4" = 1'-0"	
DRAWN:	Author	
CHECKED:	Checker	
PROJECT NO:	2020006.100	

SHEET:  
A5.6

10 RR 112 - WEST ELEVATION  
1/4" = 1'-0"

9 RR 112 - SOUTH ELEVATION  
1/4" = 1'-0"

8 RR 112 - EAST ELEVATION  
1/4" = 1'-0"

7 RR 112 - NORTH ELEVATION  
1/4" = 1'-0"

2 ENLARGED RR - MEN  
1/4" = 1'-0"

6 RR 122 - WEST ELEVATION  
1/4" = 1'-0"

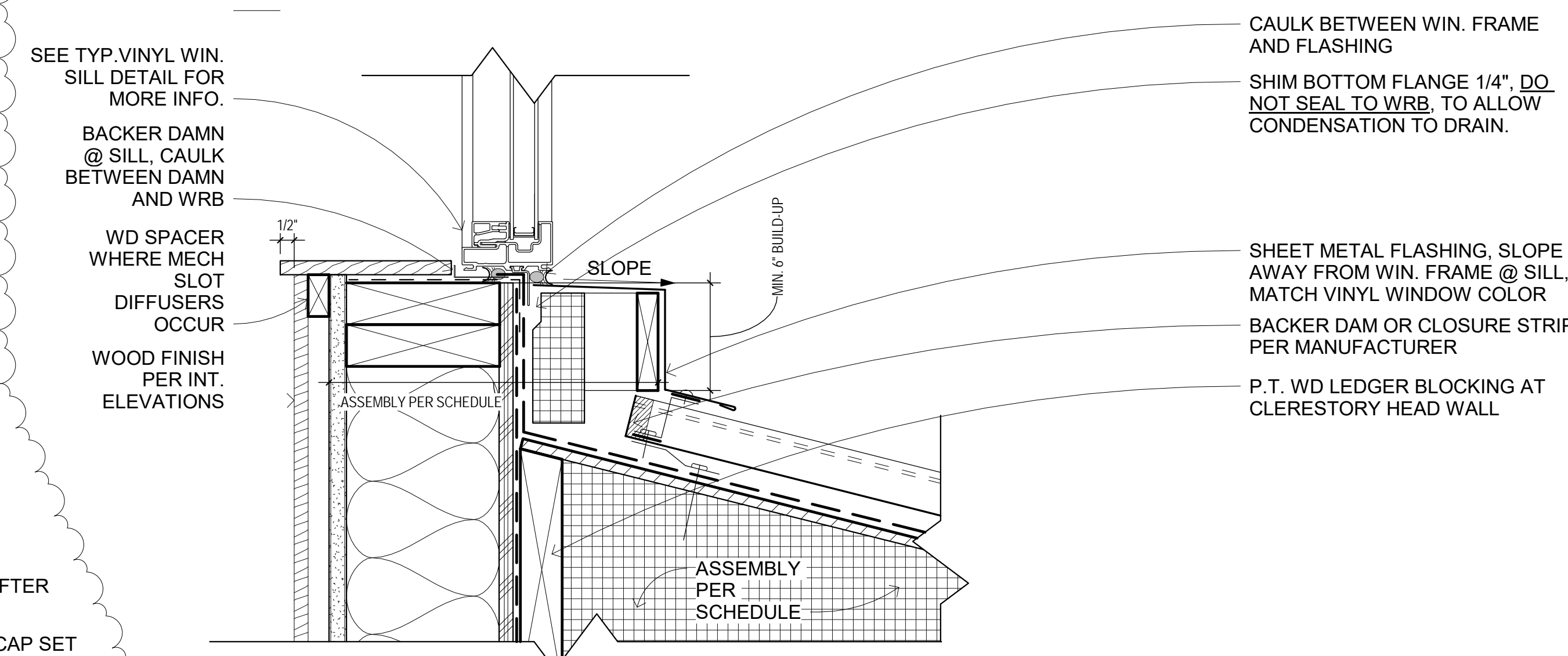
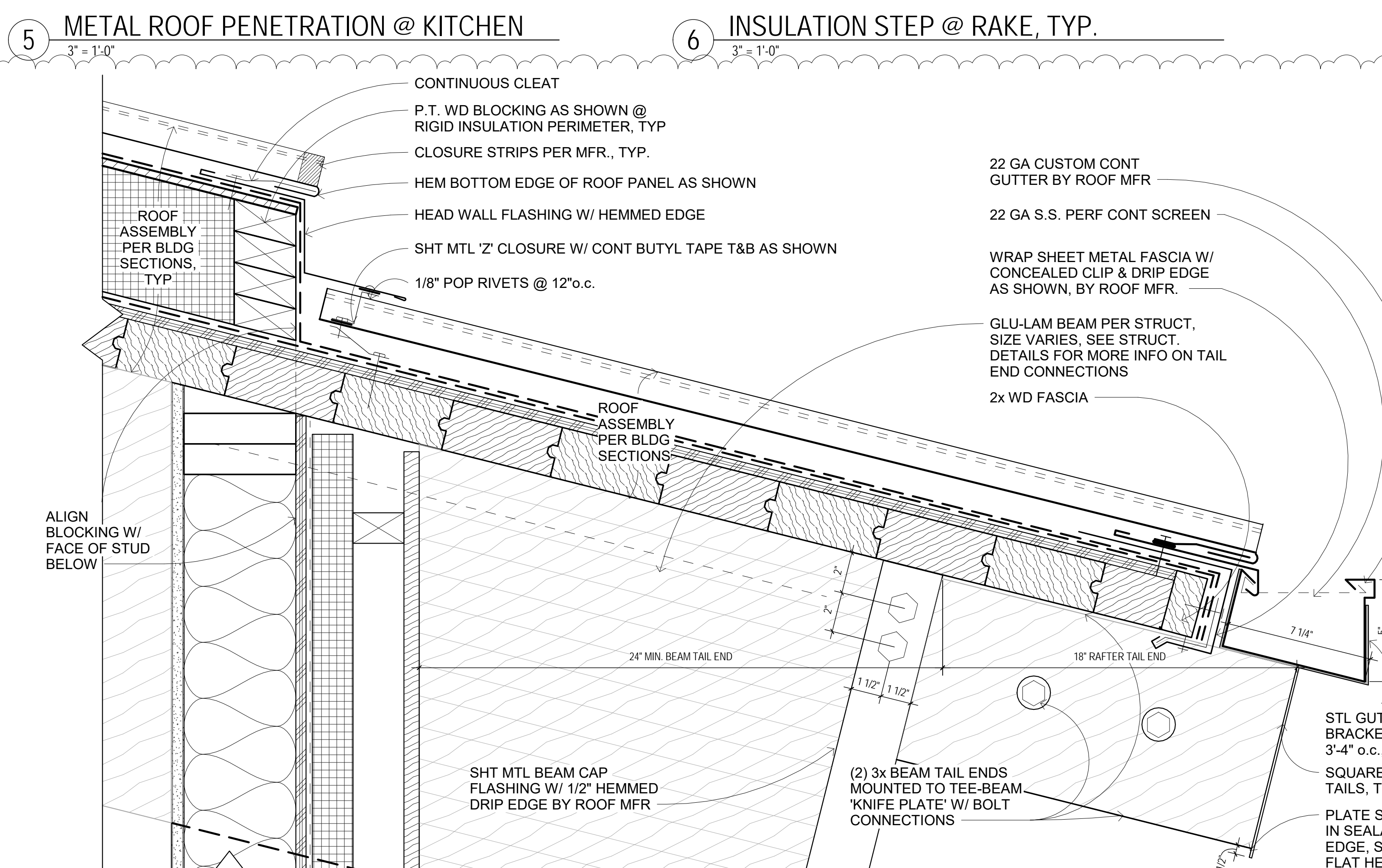
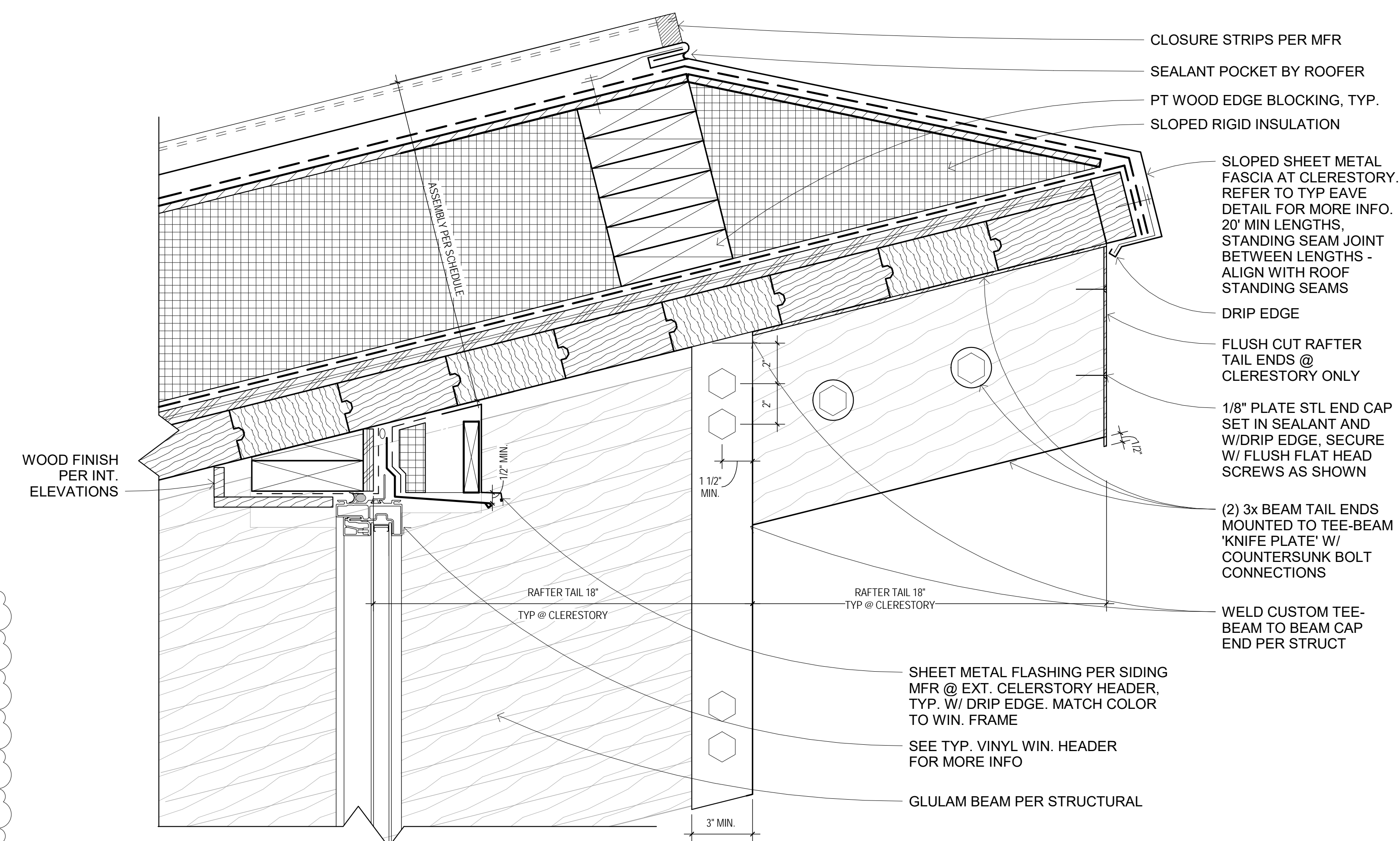
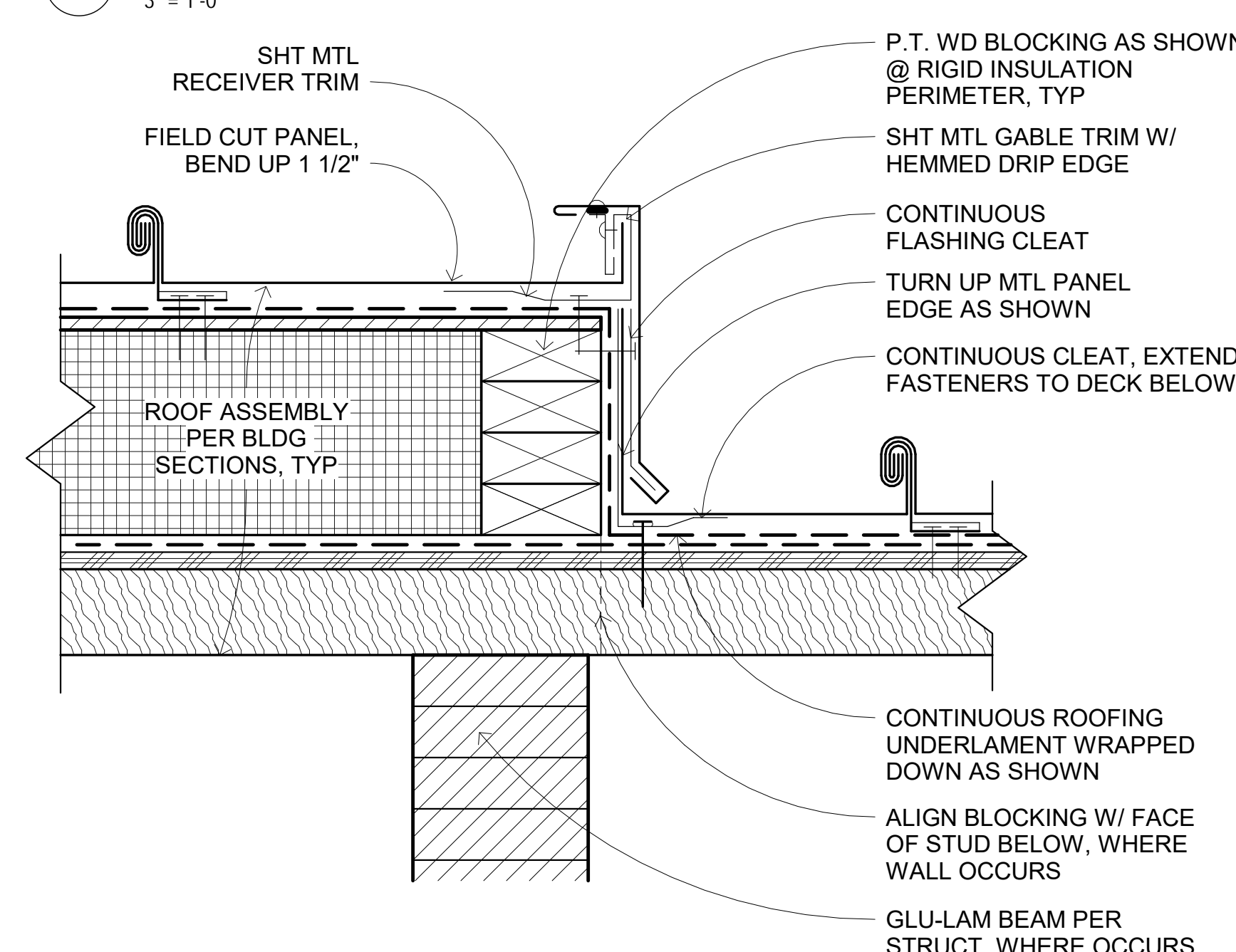
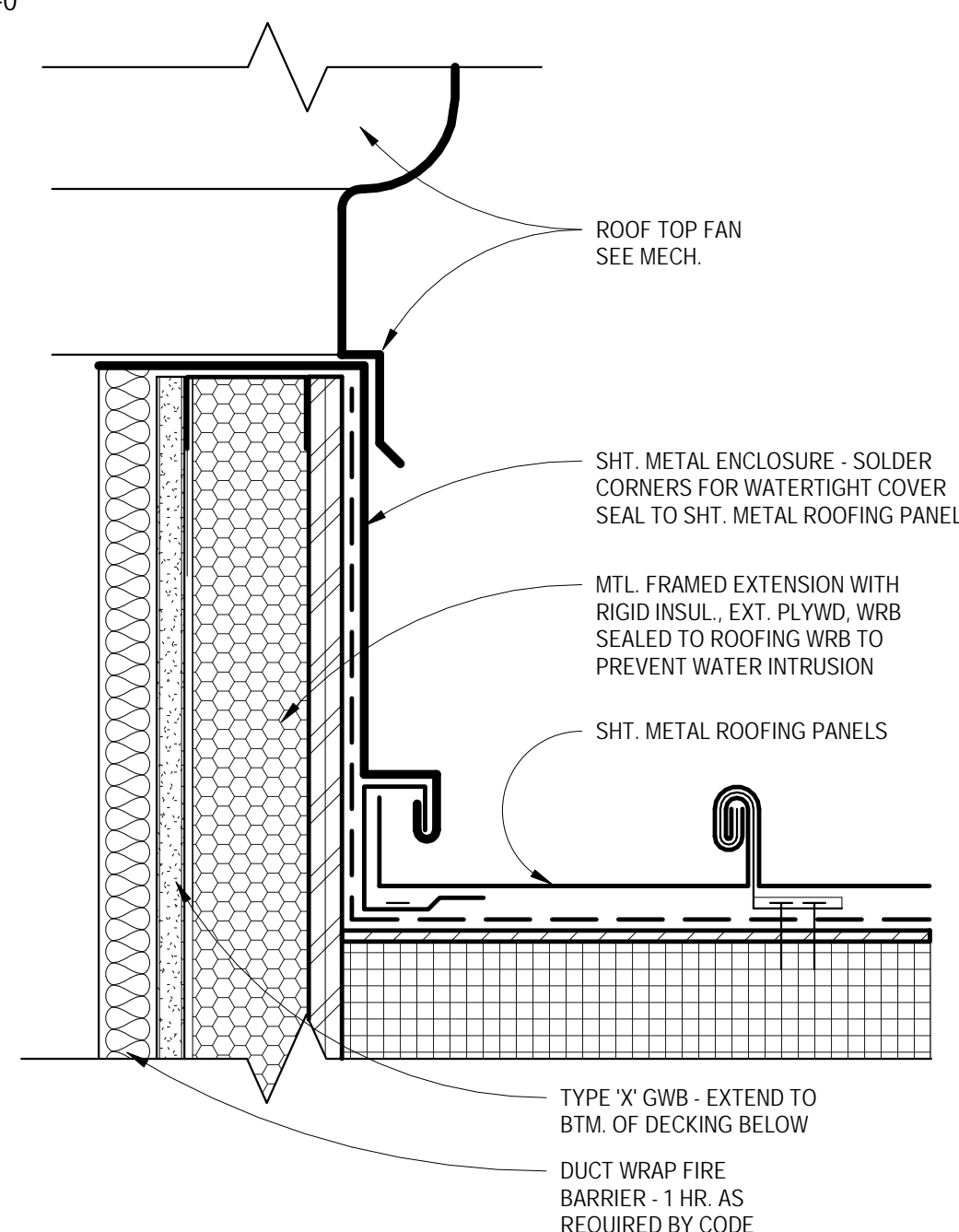
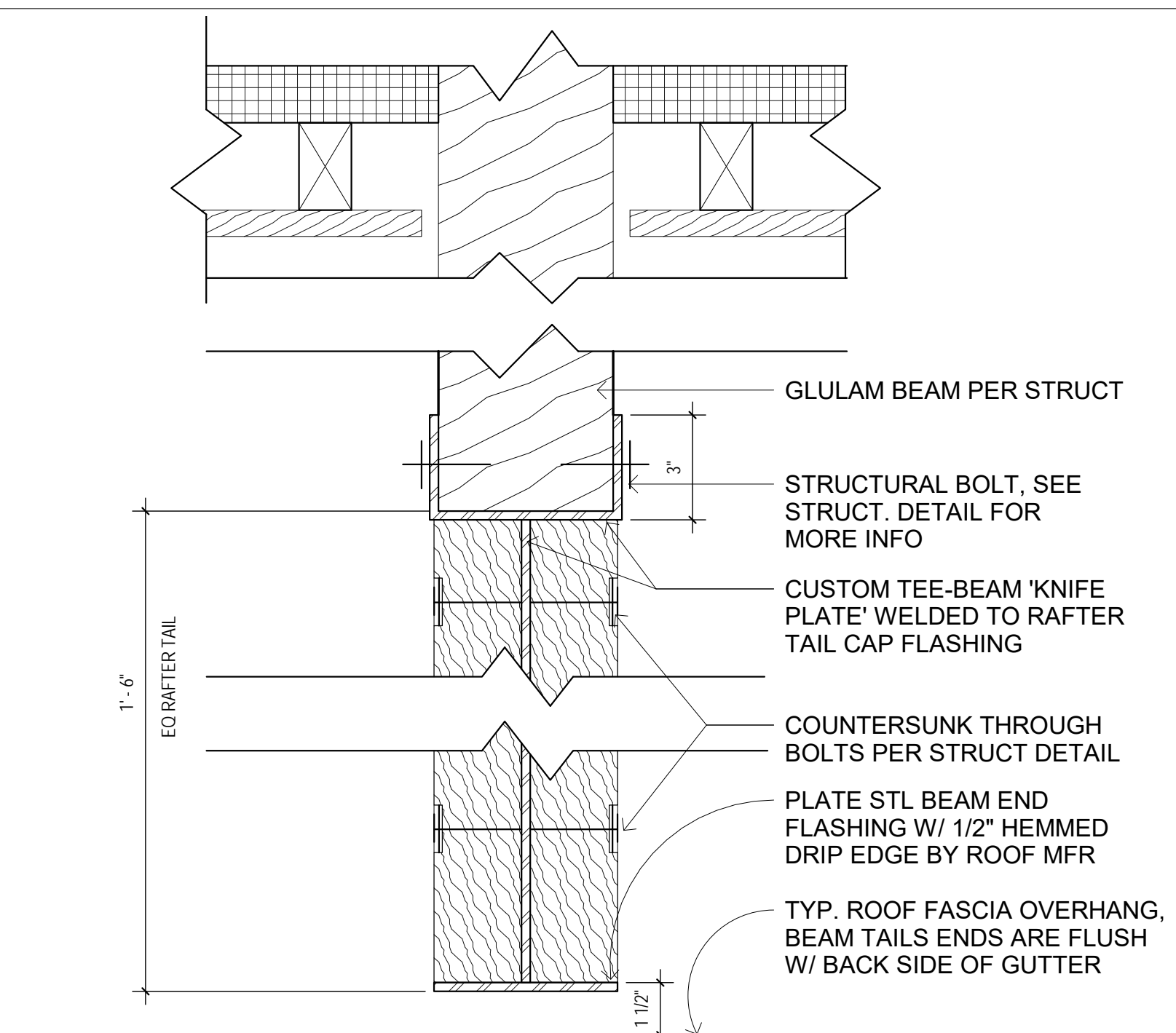
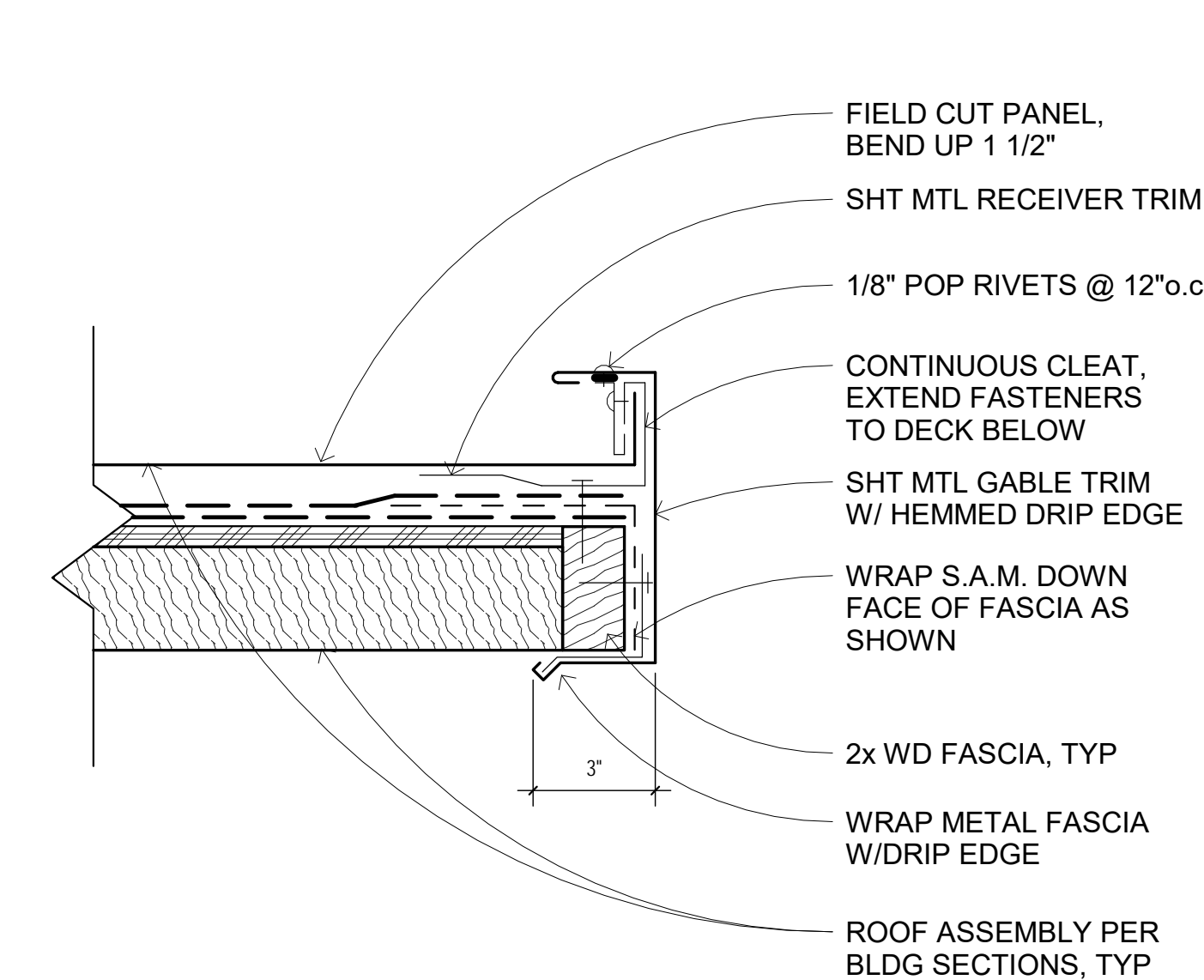
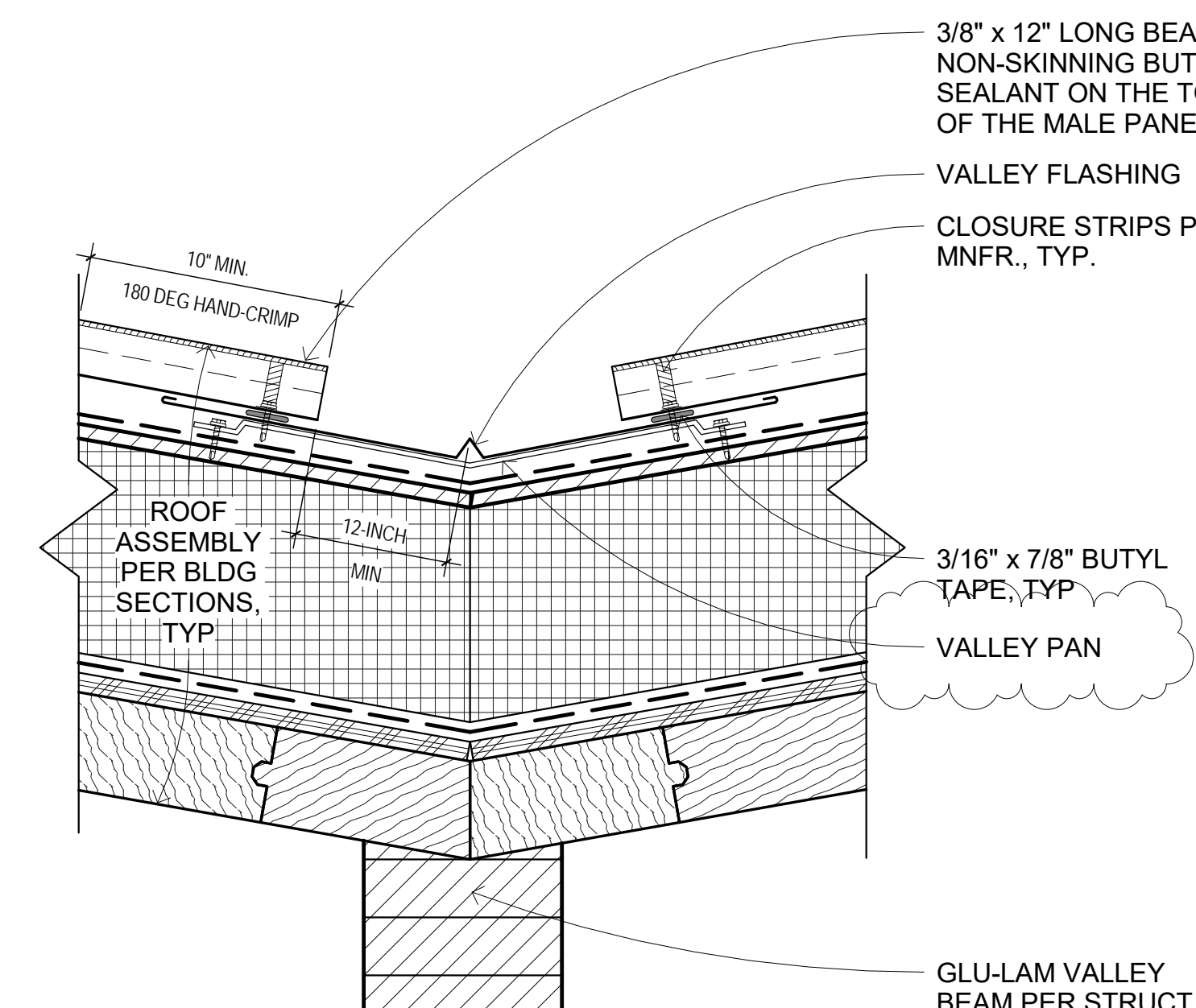
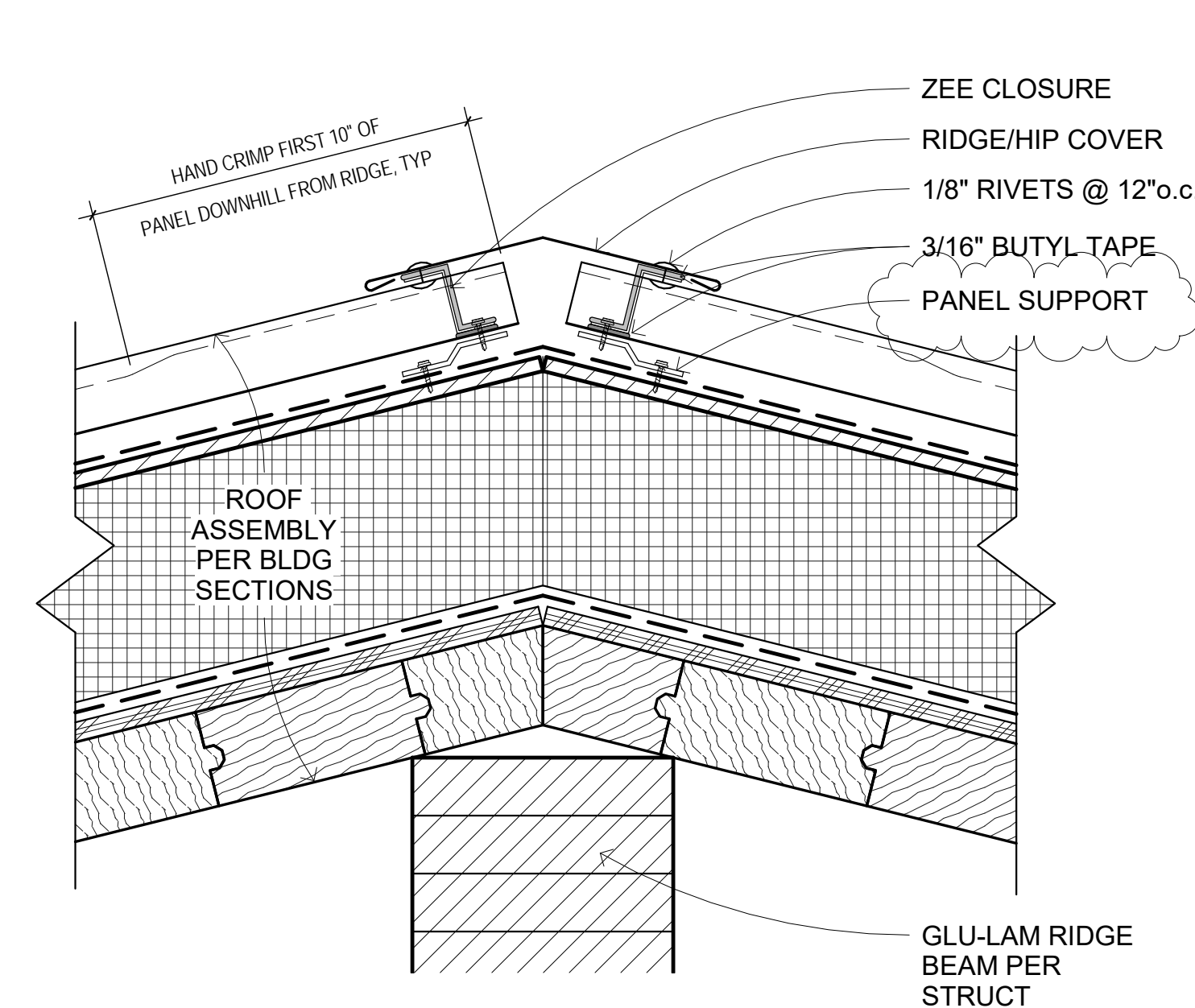
5 RR 122 - SOUTH ELEVATION  
1/4" = 1'-0"

4 RR 122 - EAST ELEVATION  
1/4" = 1'-0"

3 RR 122 - NORTH ELEVATION  
1/4" = 1'-0"

1 ENLARGED UNISEX RESTROOM PLAN  
1/4" = 1'-0"





BID  
DOCUMENTS

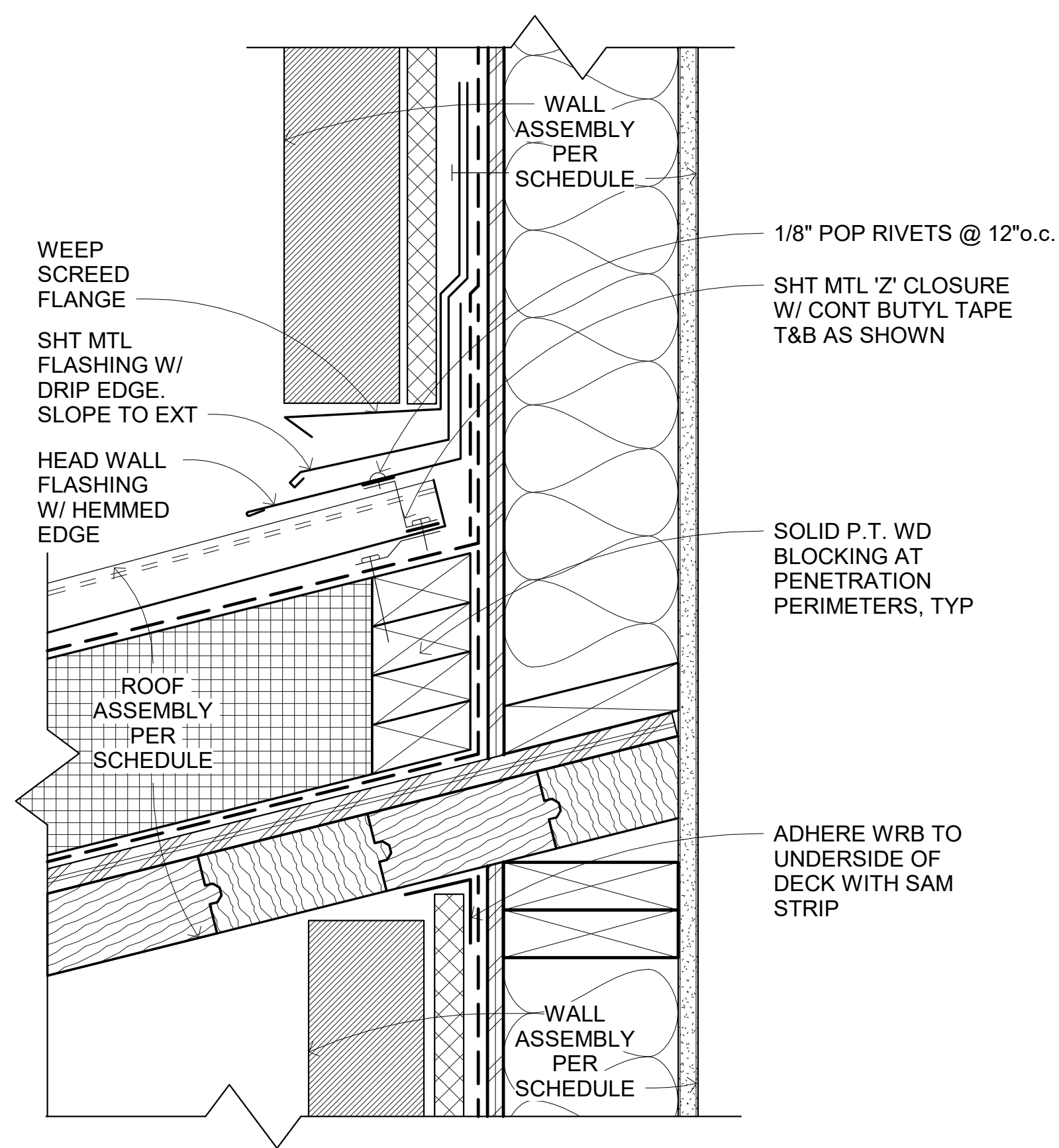
ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

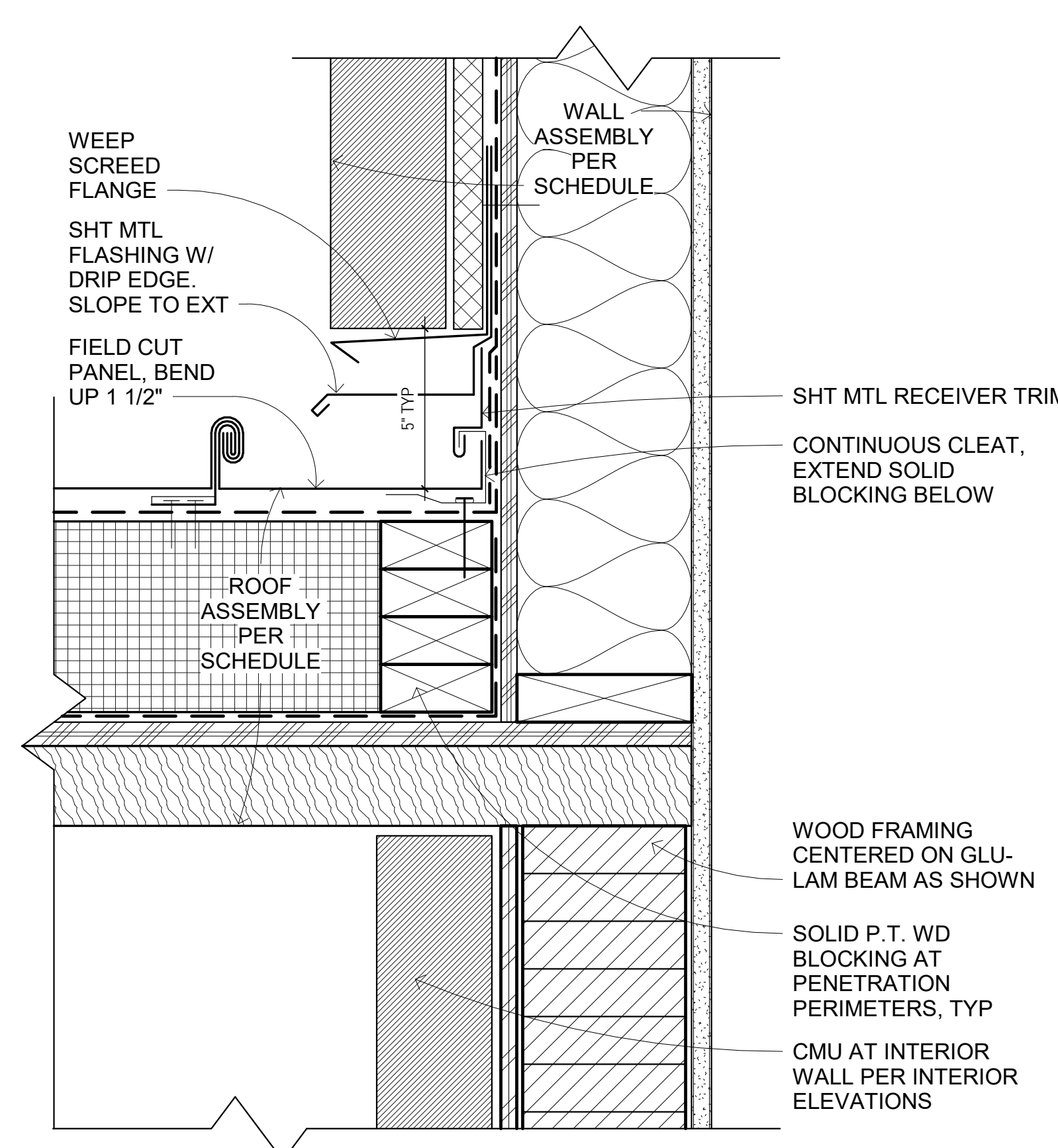
CONTENTS:  
EXTERIOR DETAILS

SCALE: 3" = 1'-0"  
DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 2020006.100

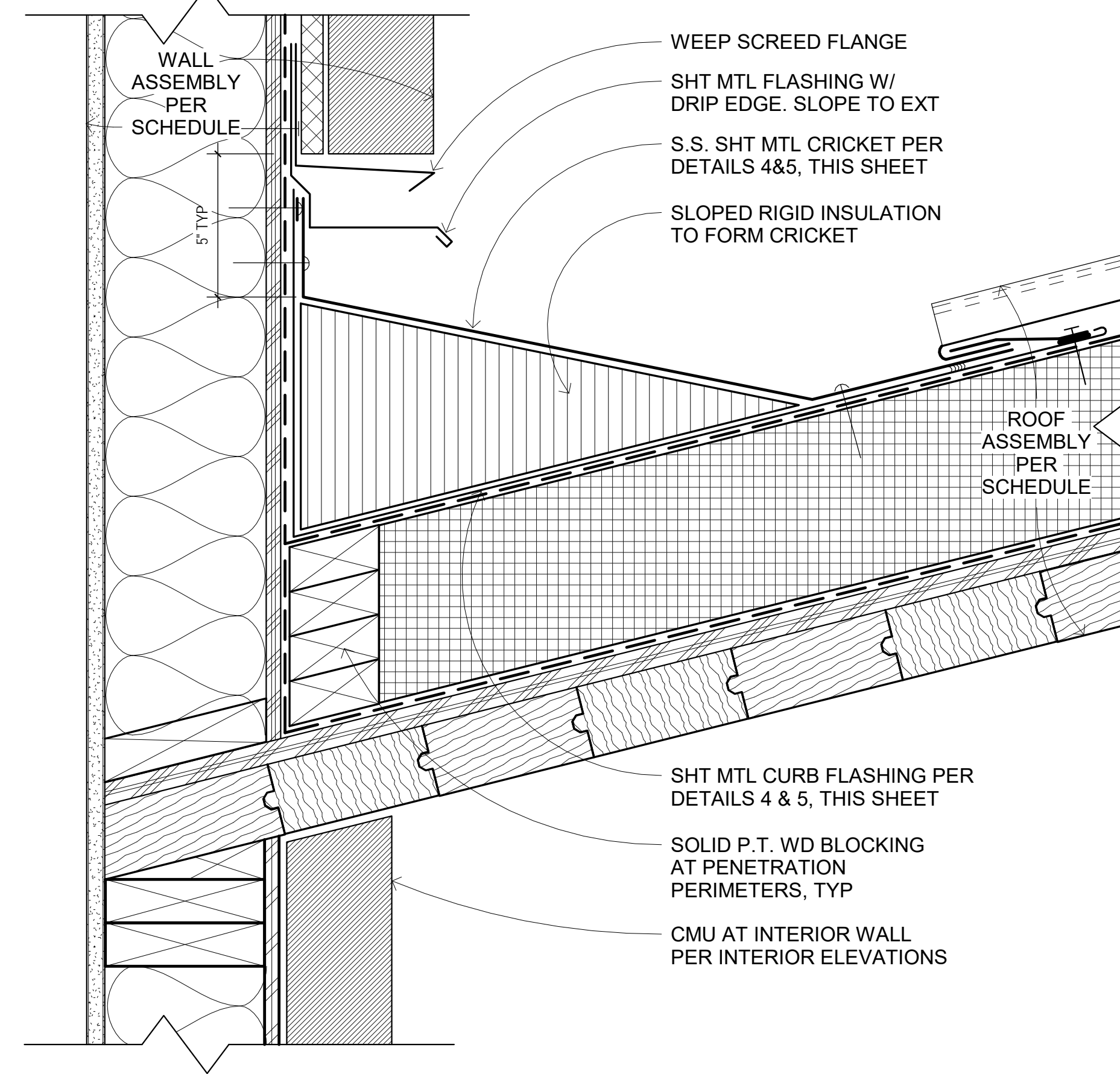




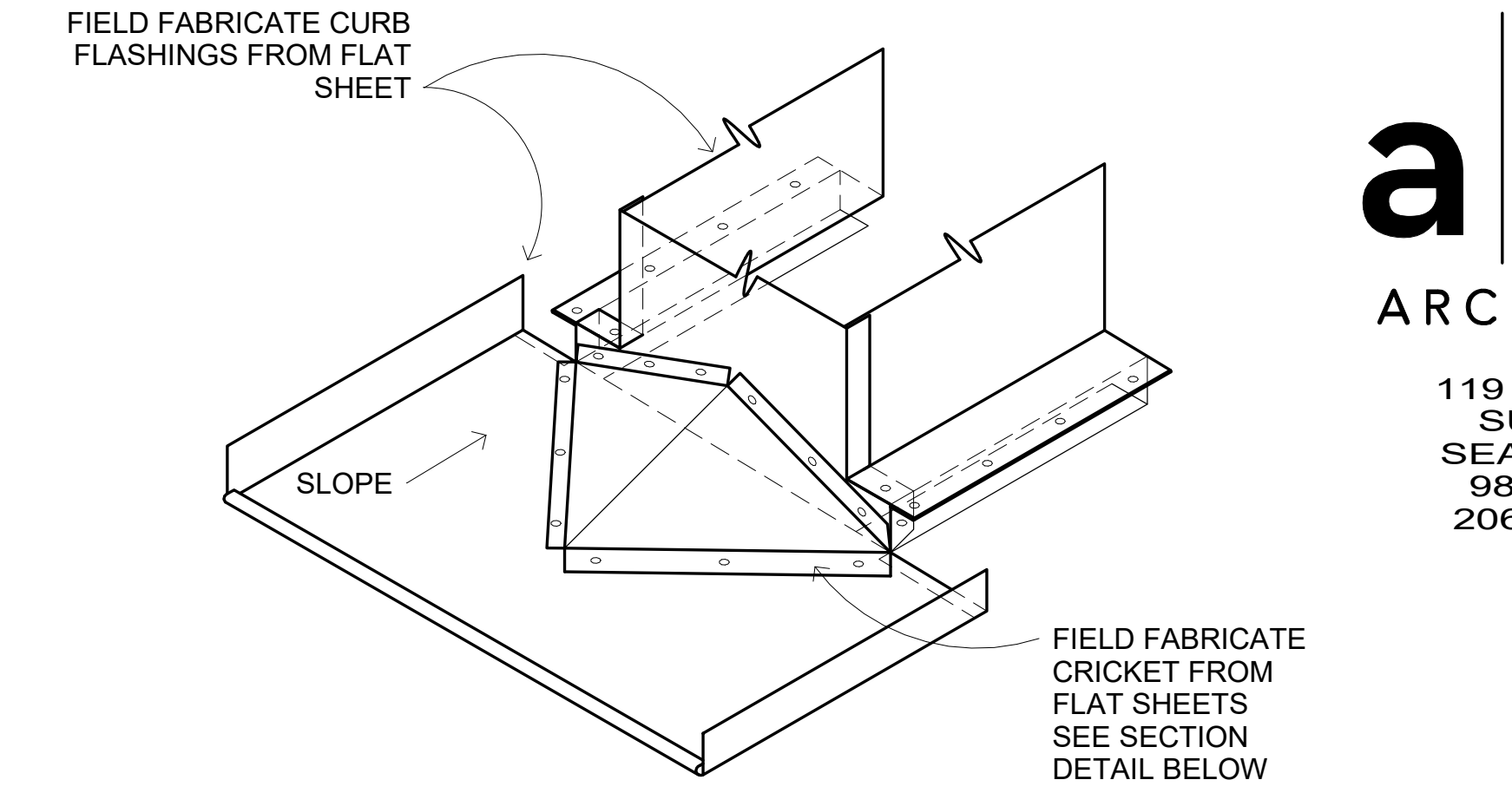
1 ROOF @ CHIMNEY SOUTH  
3" = 1'-0"



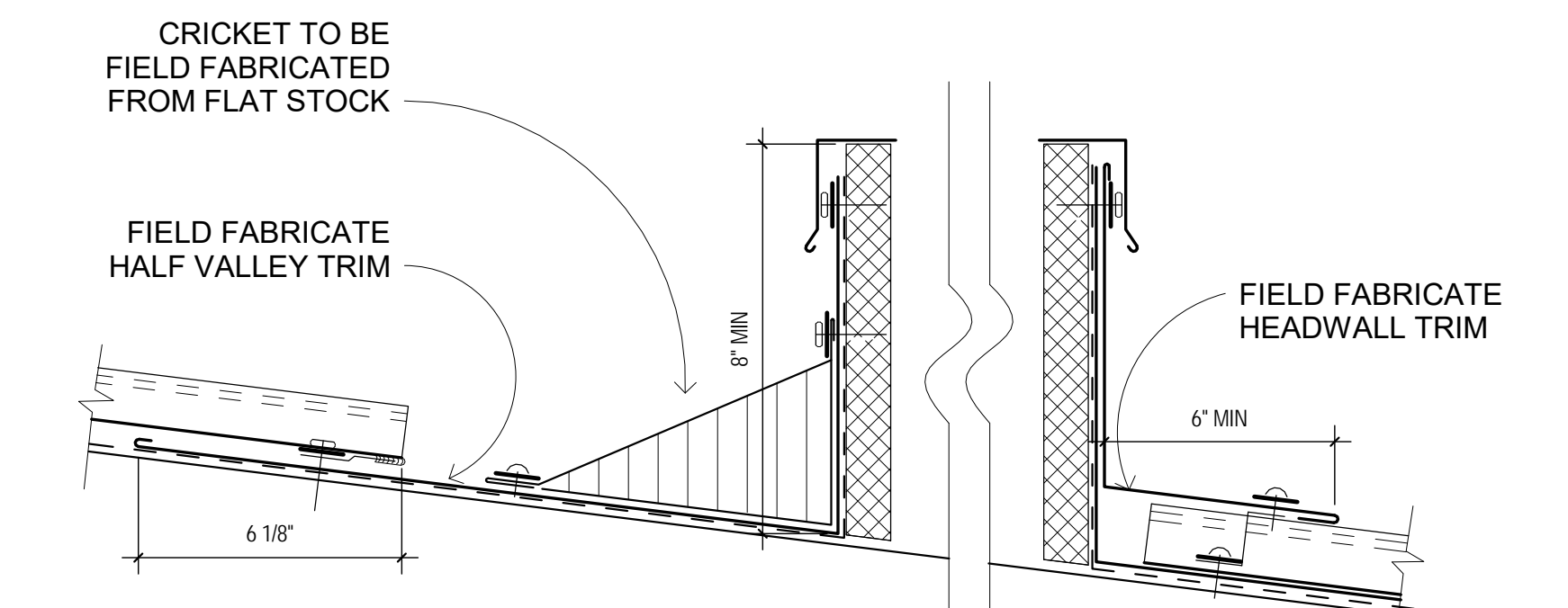
2 ROOF @ CHIMNEY EAST  
3" = 1'-0"



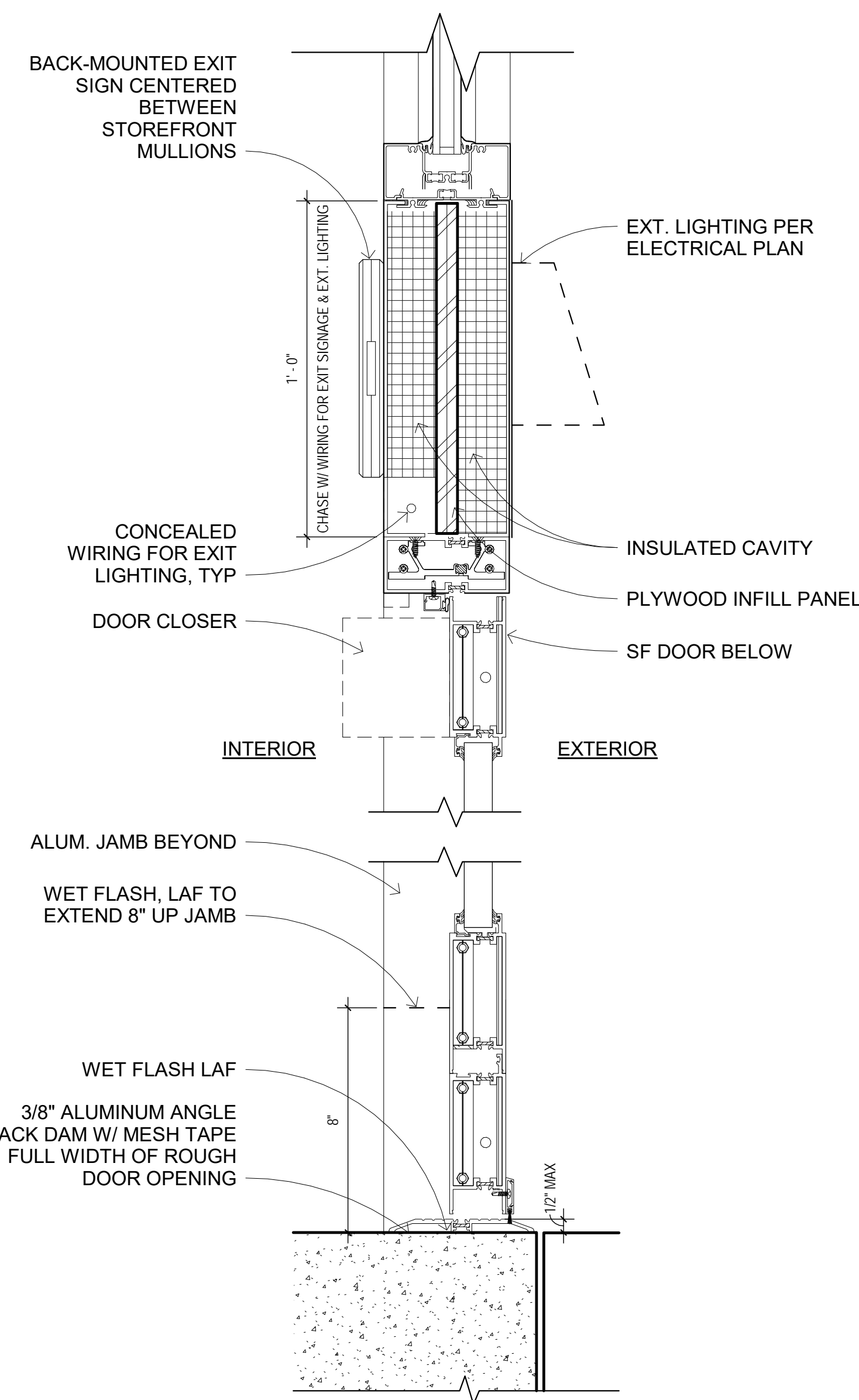
3 CRICKET @ CHIMNEY  
3" = 1'-0"



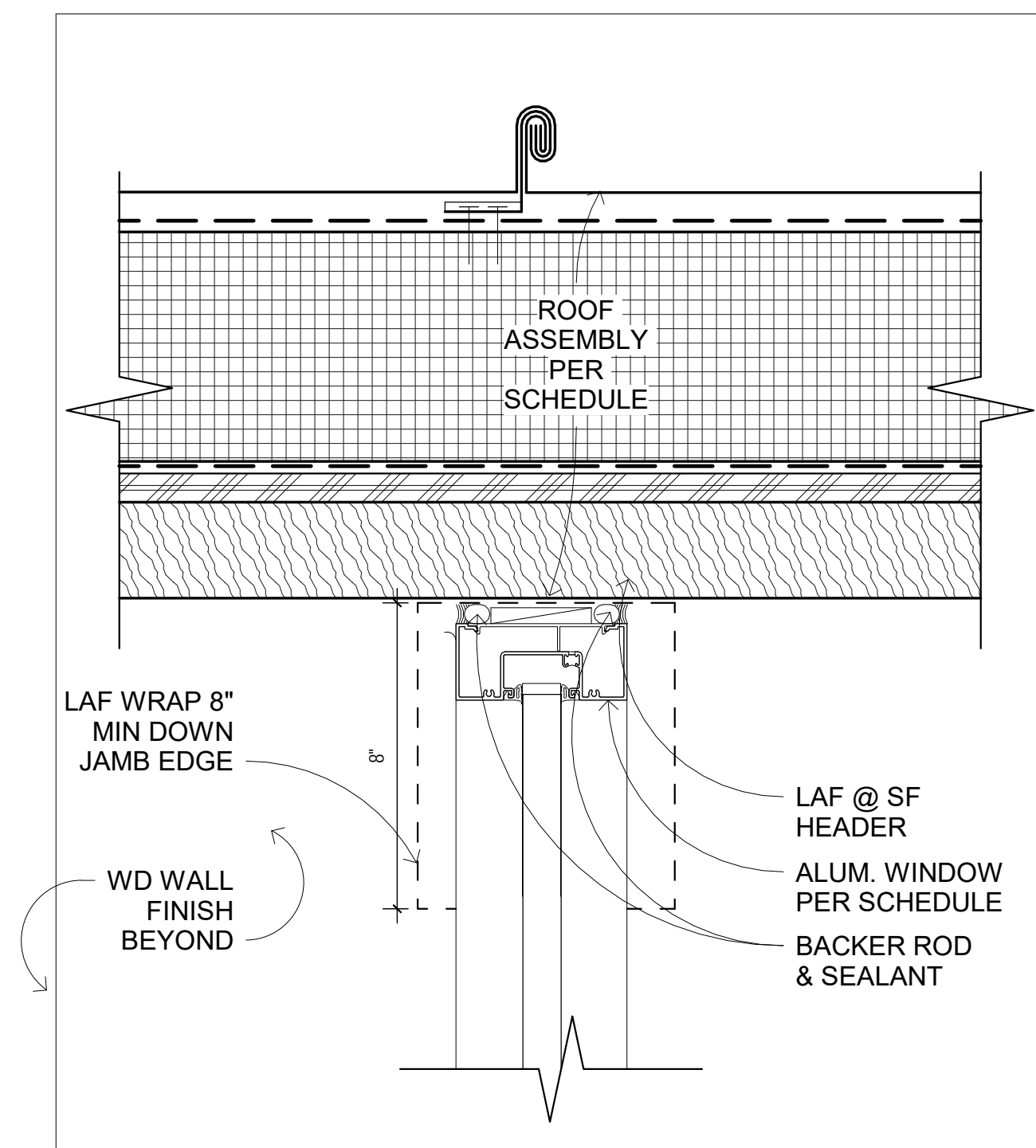
4 CRICKET AXON DETAIL, TYP.  
1 1/2" = 1'-0"



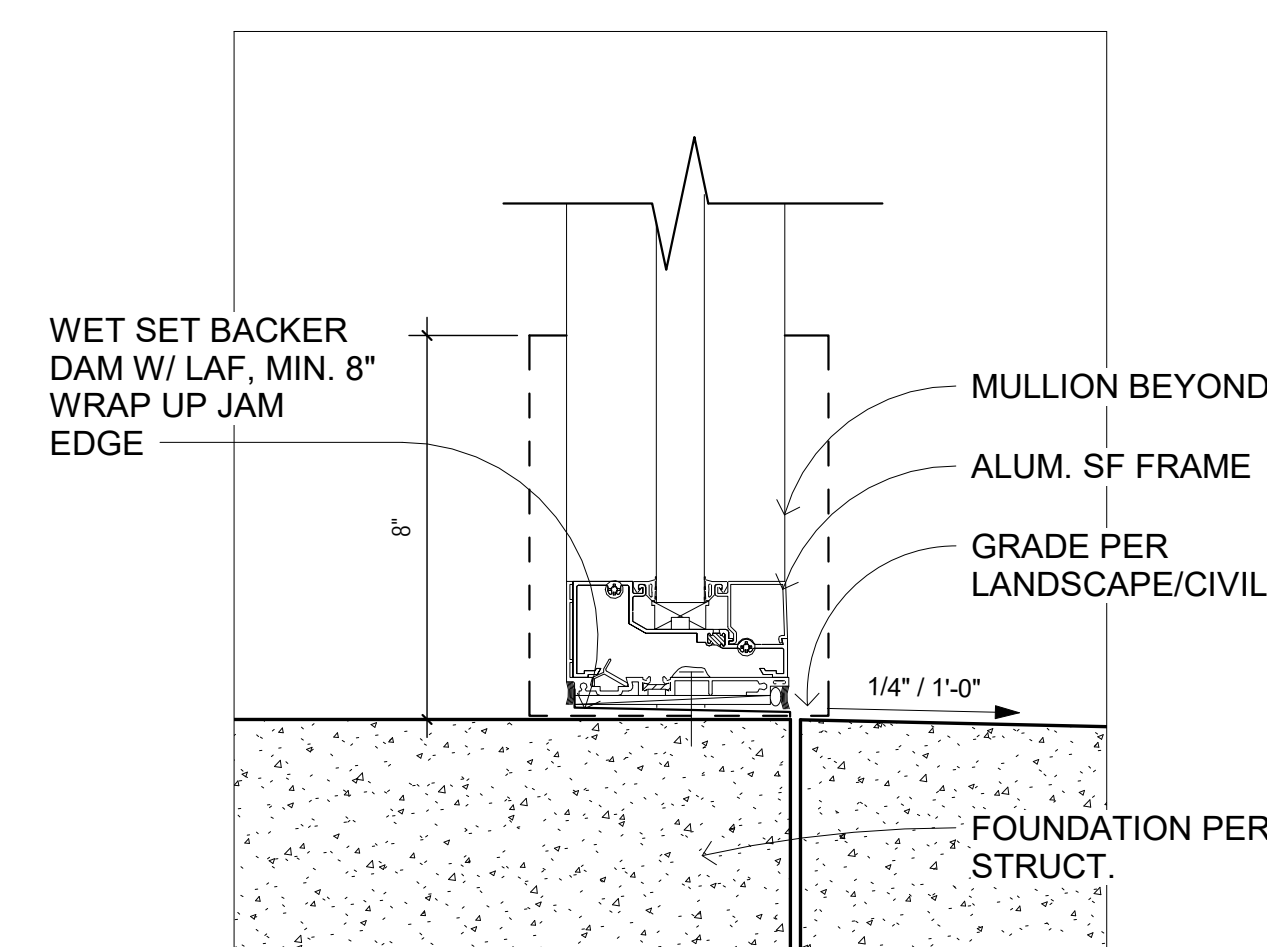
5 SECTION DETAIL @ CRICKET, TYP.  
3" = 1'-0"



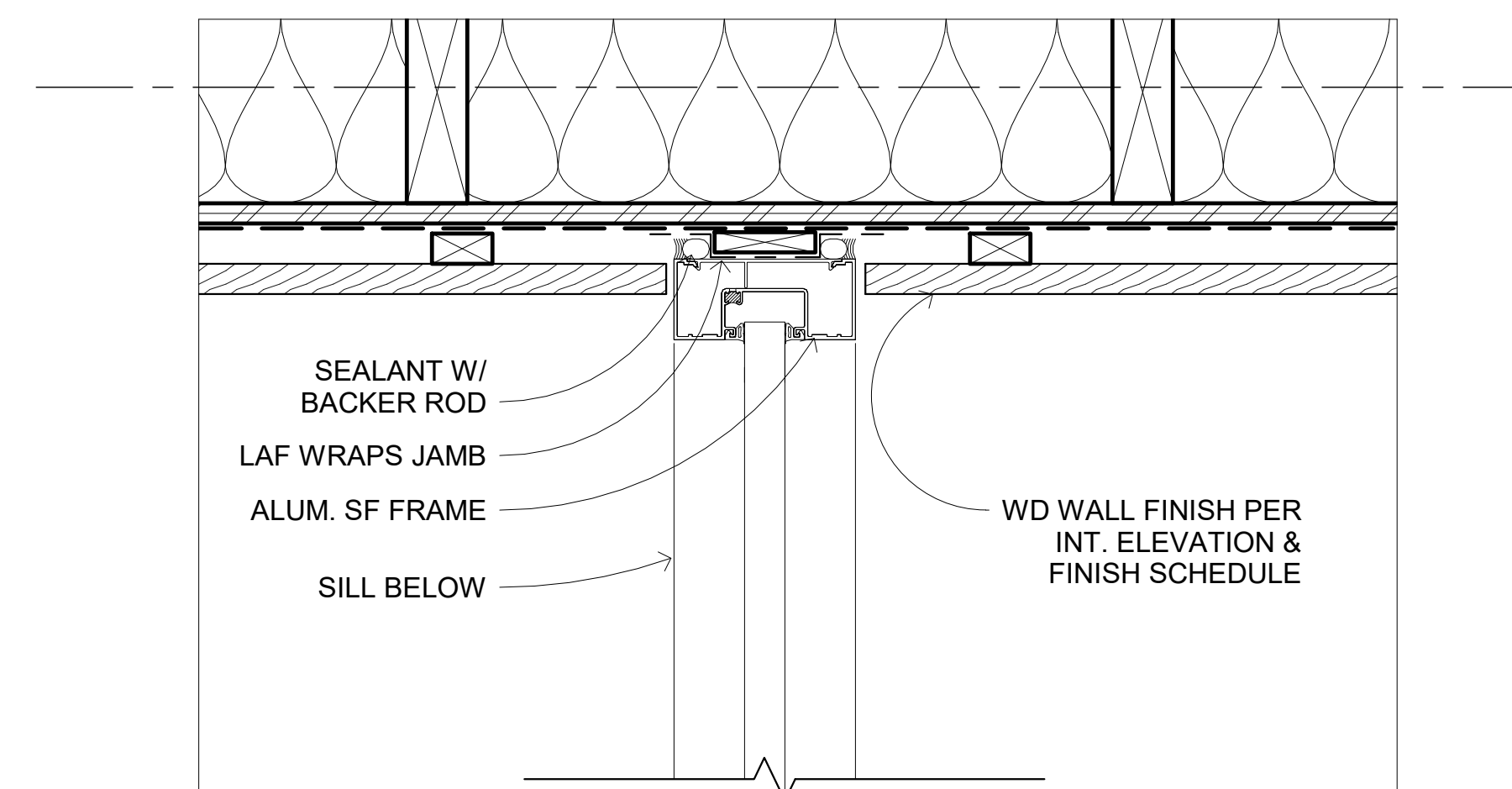
6 STOREFRONT DOOR HEADER & SILL  
3" = 1'-0"



8 TYPICAL STOREFRONT HEADER  
3" = 1'-0"



7 TYPICAL STOREFRONT SILL @ GRADE  
3" = 1'-0"



9 TYPICAL STOREFRONT JAM DETAIL  
3" = 1'-0"

**arc**  
ARCHITECTS

119 S MAIN ST  
SUITE 200  
SEATTLE, WA  
98104-2579  
206 322 3322

**The Chehalis Tribe**  
**Chehalis Elders Center**

NIEDERMAN RD  
OAKVILLE, WA 98568



**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

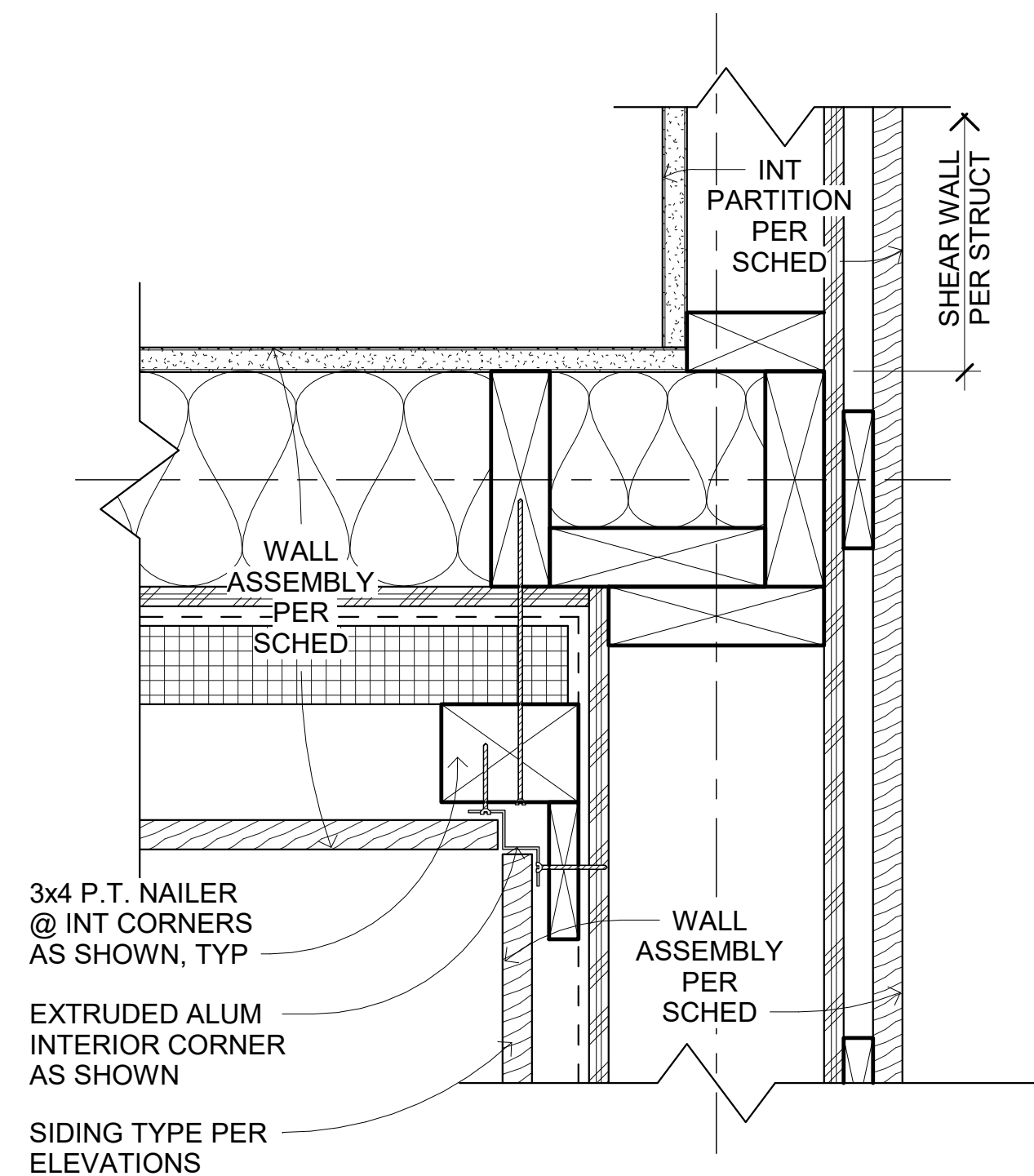
CONTENTS:

**EXTERIOR DETAILS**

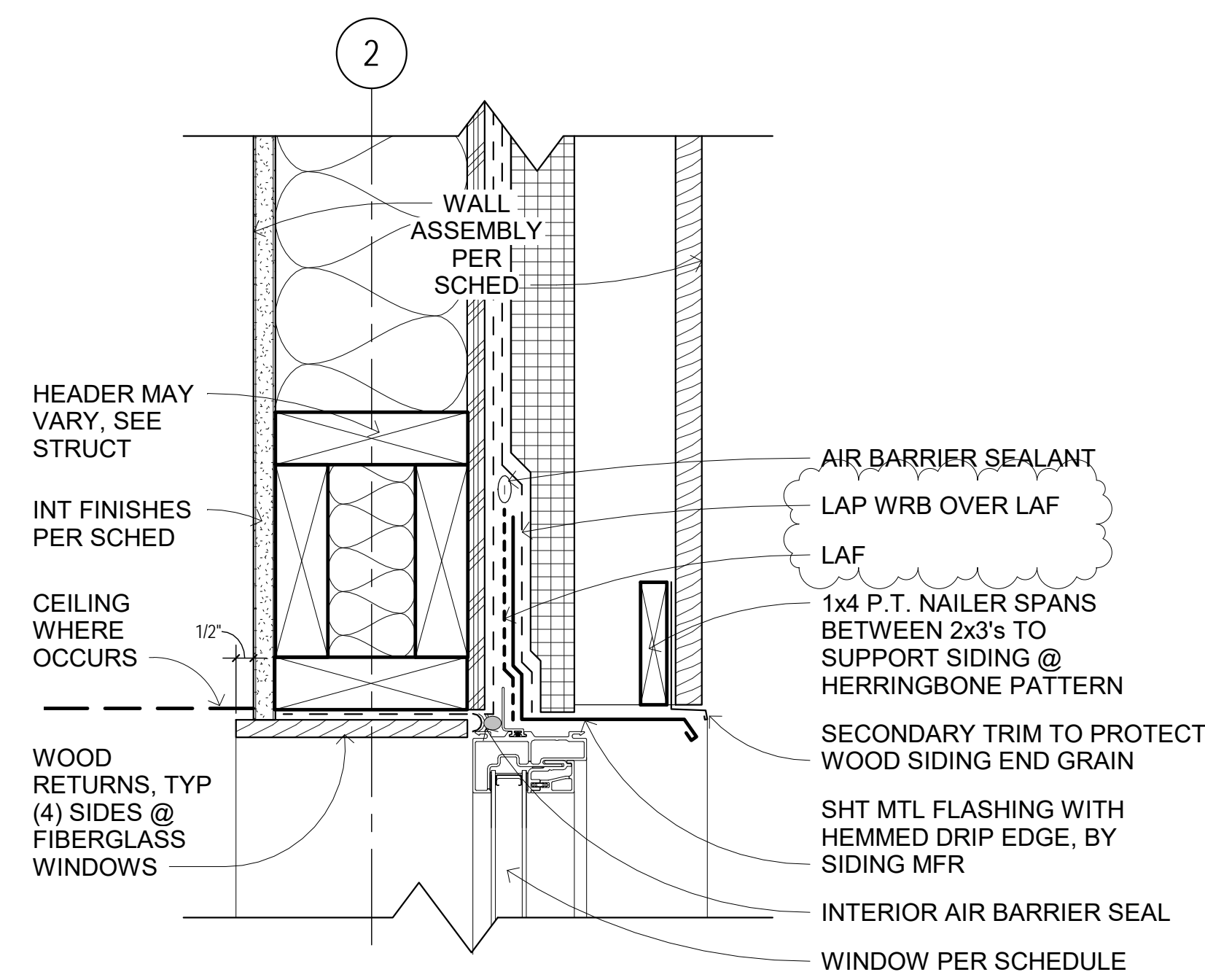
SCALE: **As Indicated**  
DRAWN: **Author**  
CHECKED: **Checker**  
PROJECT NO: 2020006.100

SHEET  
**A8.3**

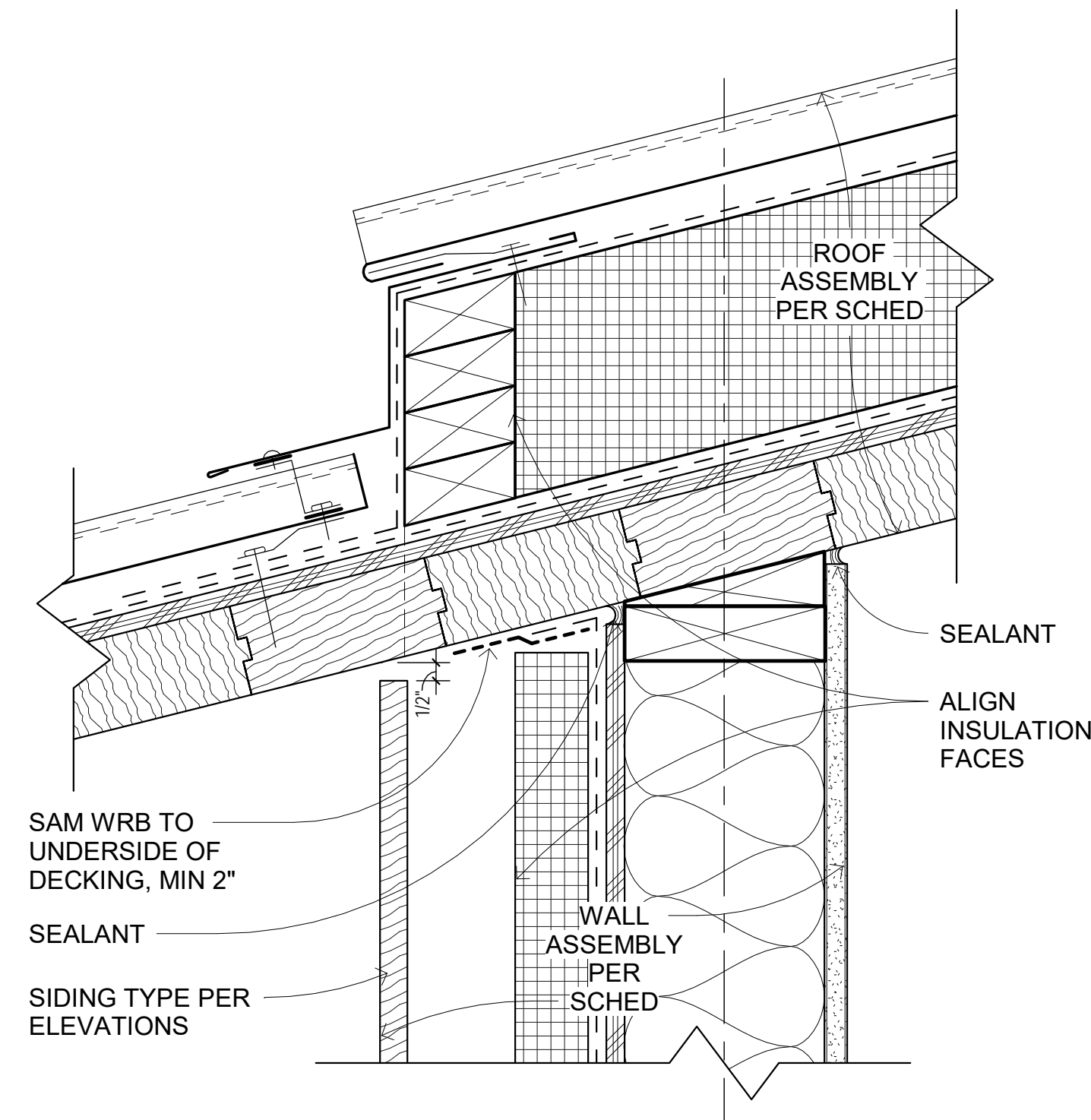




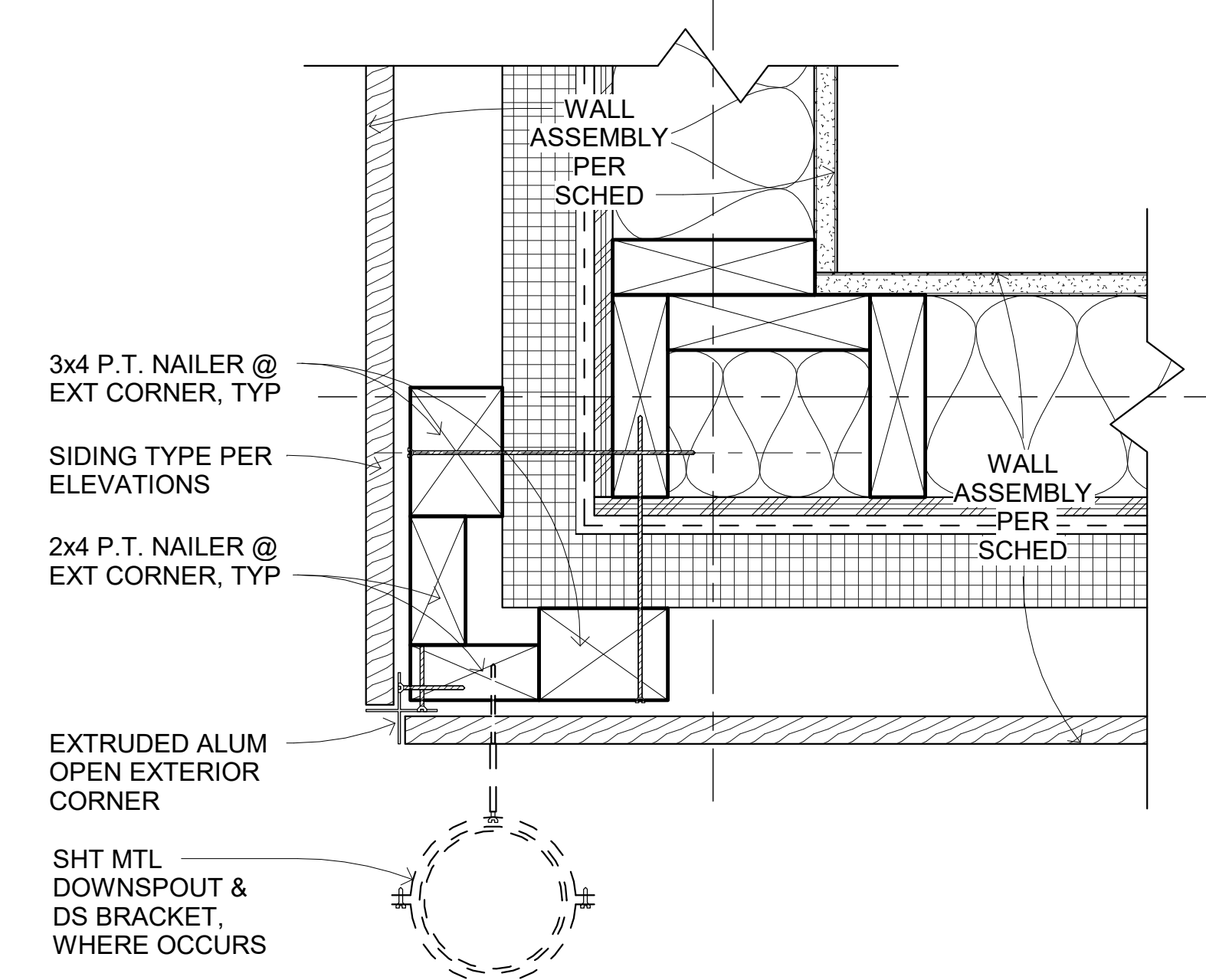
1 WOOD SIDING INT CORNER  
3" = 1'-0"



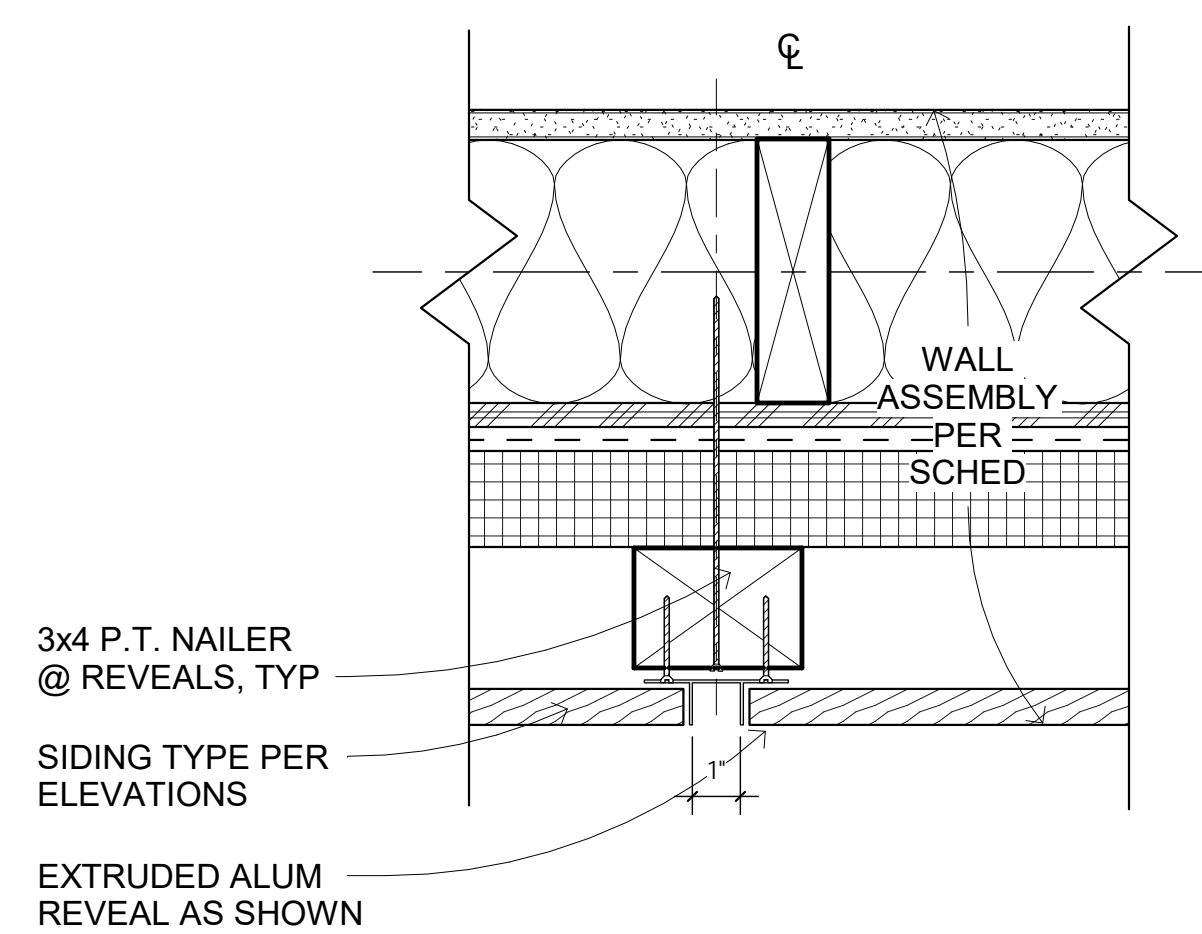
2 HEAD @ FIBERGLASS WINDOW  
3" = 1'-0"



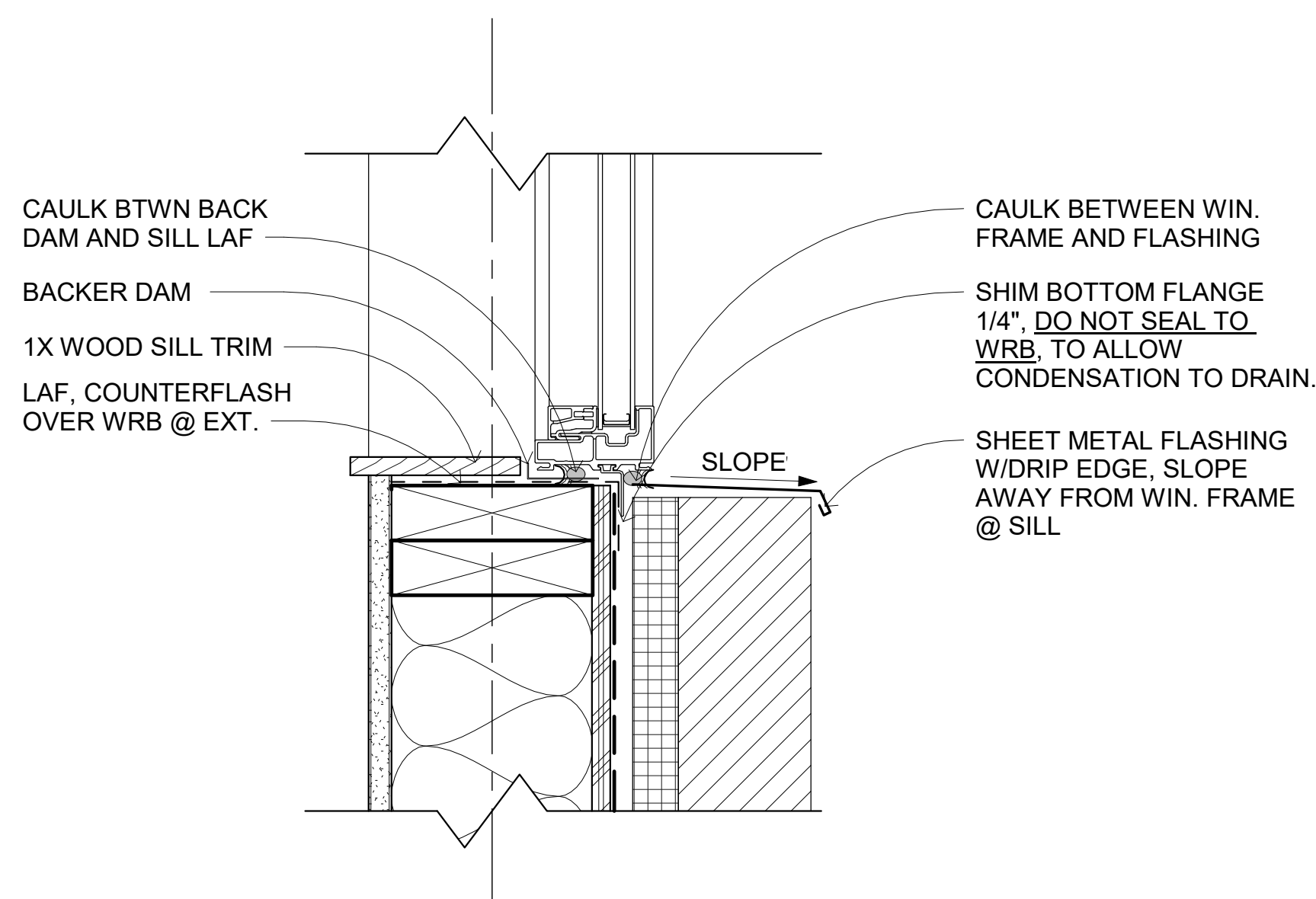
3 WOOD SIDING TOP OF WALL  
3" = 1'-0"



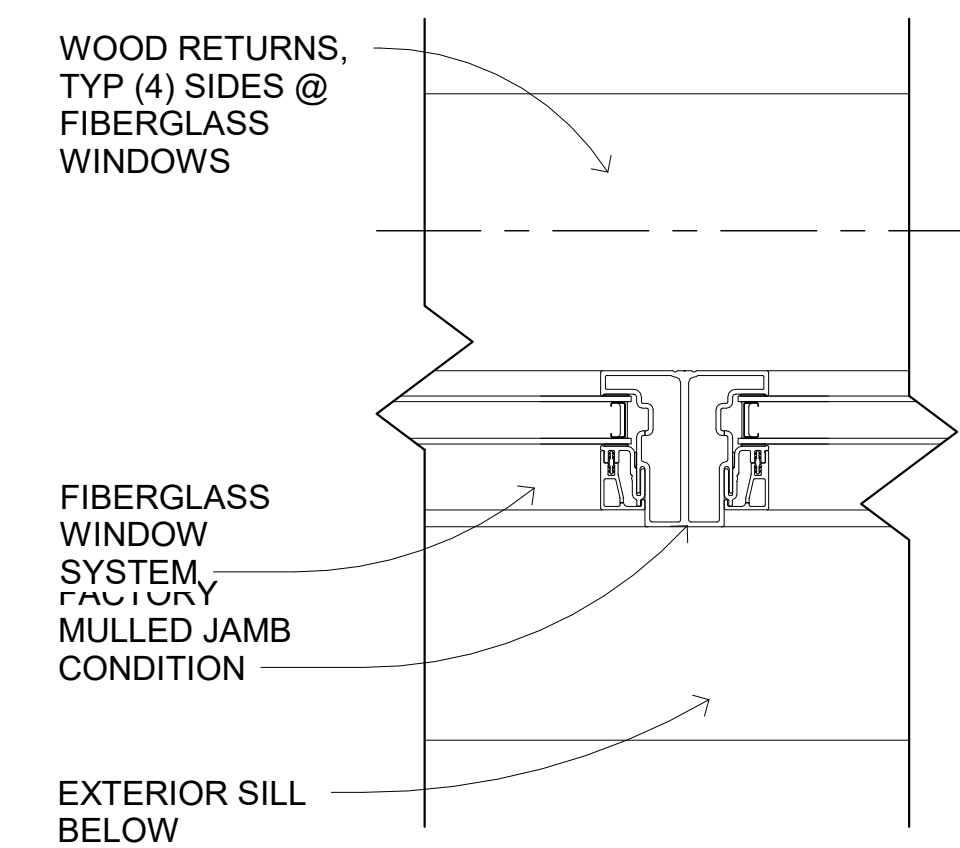
4 WOOD SIDING EXT CORNER  
3" = 1'-0"



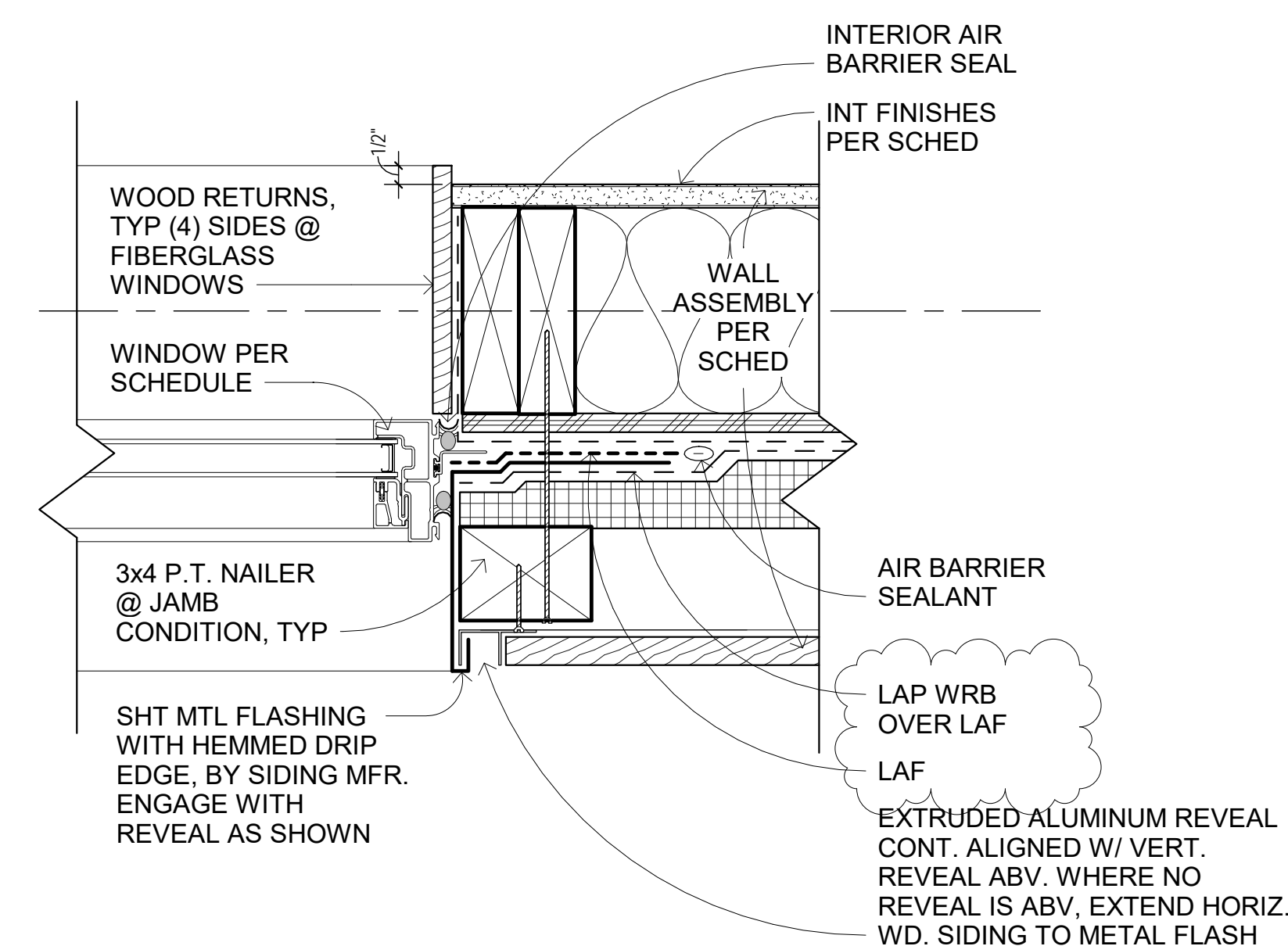
5 WOOD SIDING REVEAL  
3" = 1'-0"



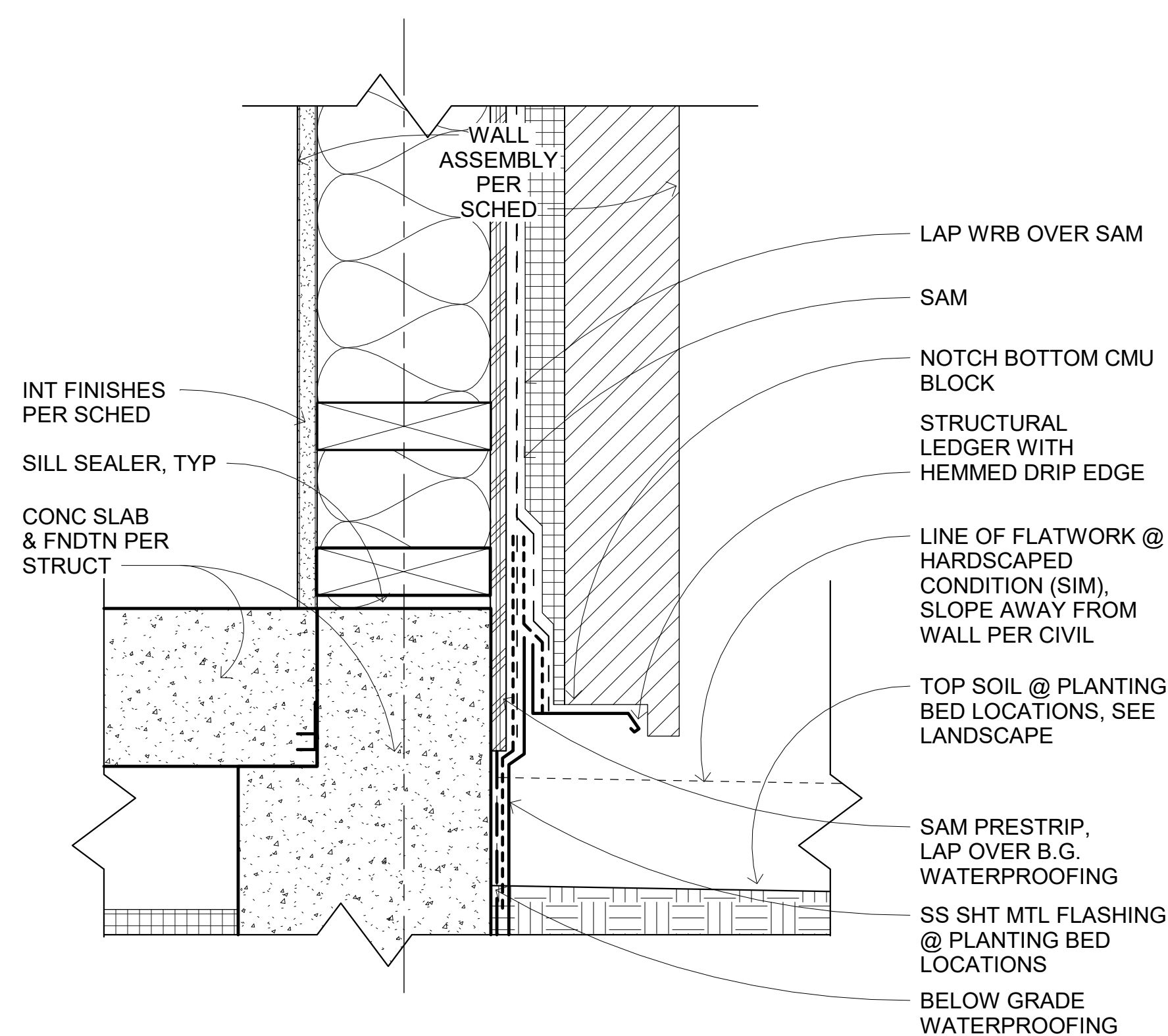
6 TYPICAL VINYL WINDOW SILL  
3" = 1'-0"



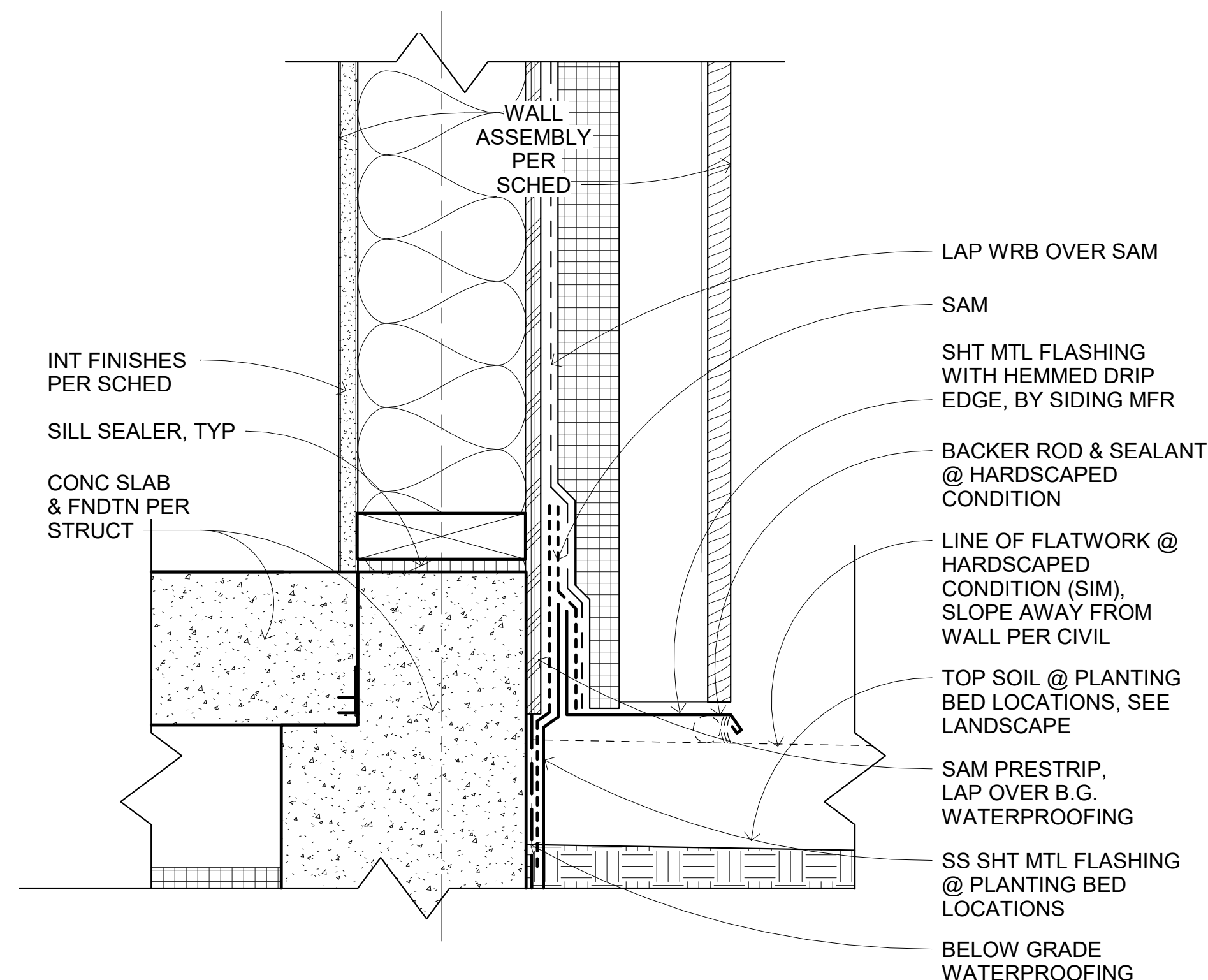
7 MULLED JAMB @ FIBERGLASS WINDOW  
3" = 1'-0"



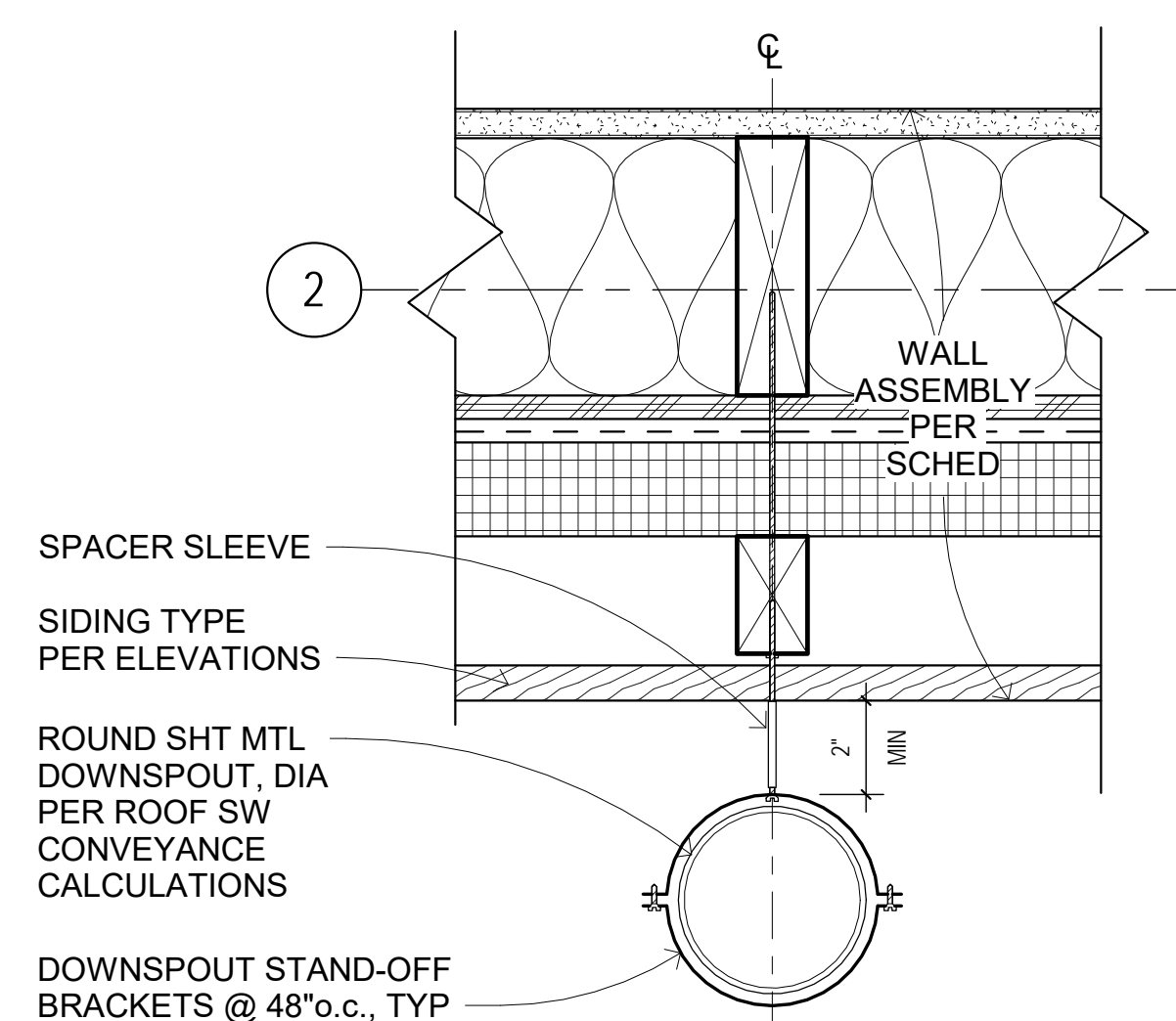
8 JAMB @ FIBERGLASS WINDOW  
3" = 1'-0"



9 CMU SIDING BASE OF WALL  
3" = 1'-0"



10 WOOD SIDING @ BASE OF WALL  
3" = 1'-0"



11 DOWNSPOUT  
3" = 1'-0"



BID  
DOCUMENTS

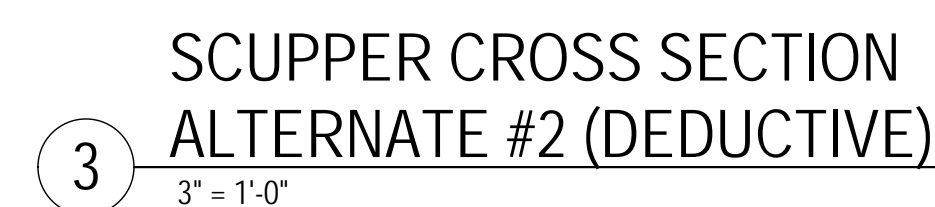
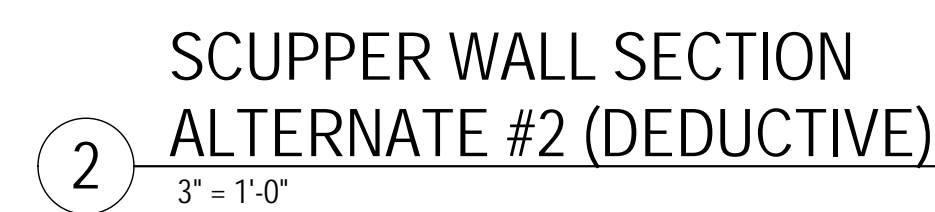
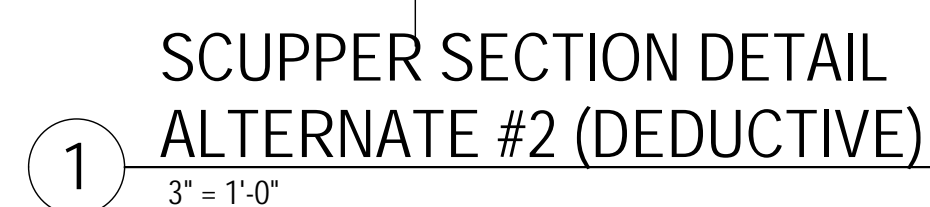
ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

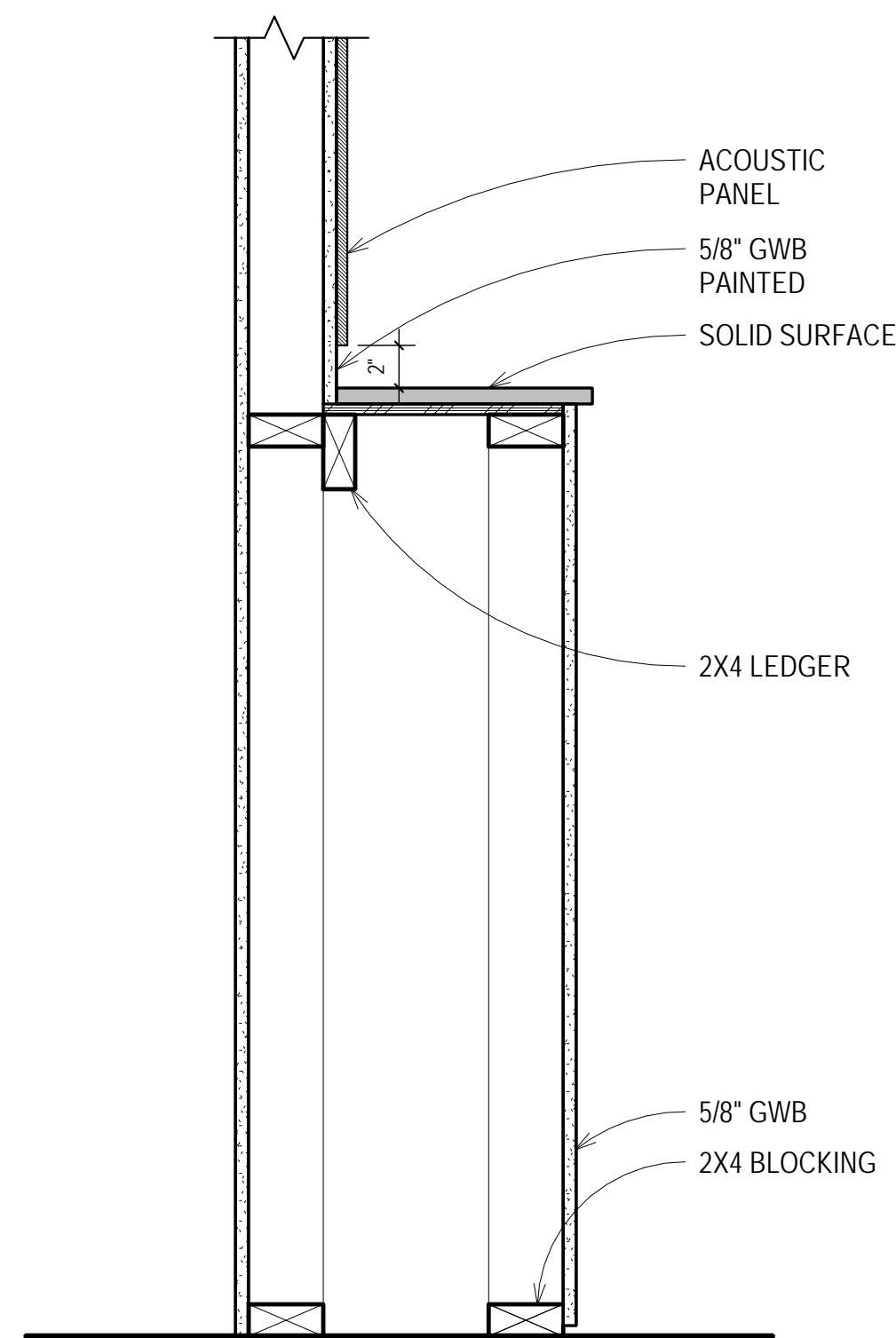
CONTENTS:  
EXTERIOR DETAILS

SCALE: 3" = 1'-0"  
DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 0000000.00

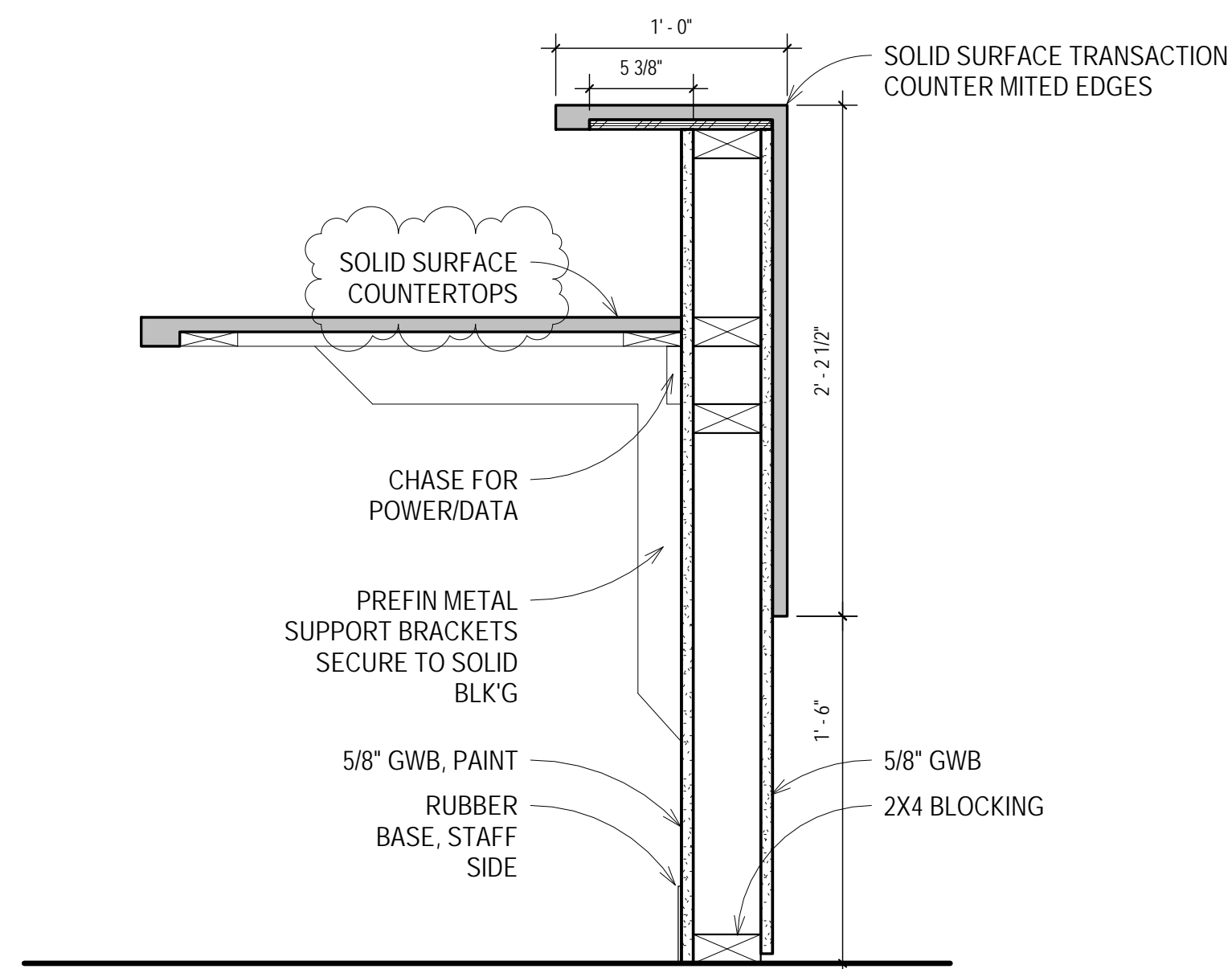




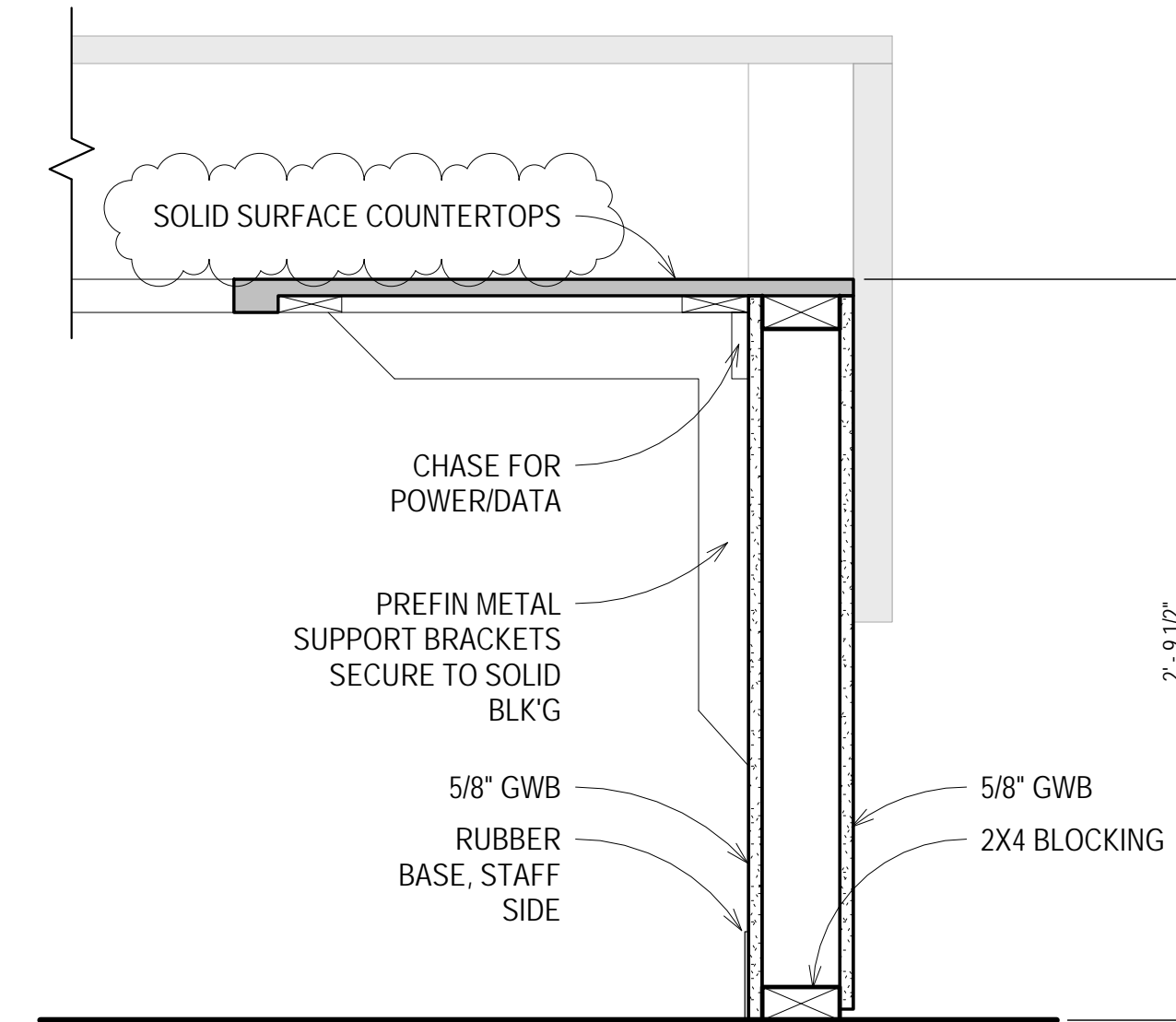




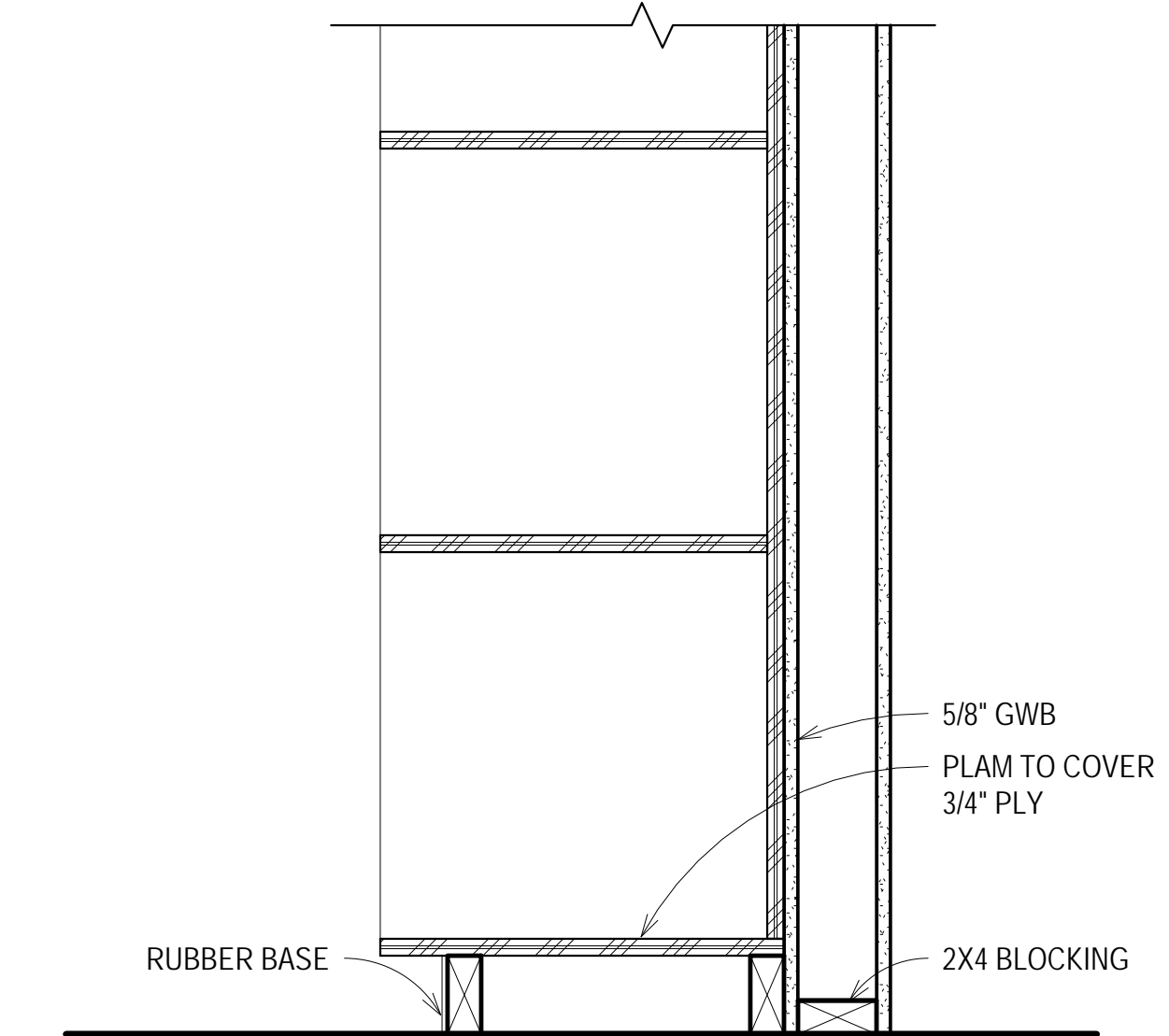
1 ACOUSTIC PANELS @ RECEPTION  
1 1/2" = 1'-0"



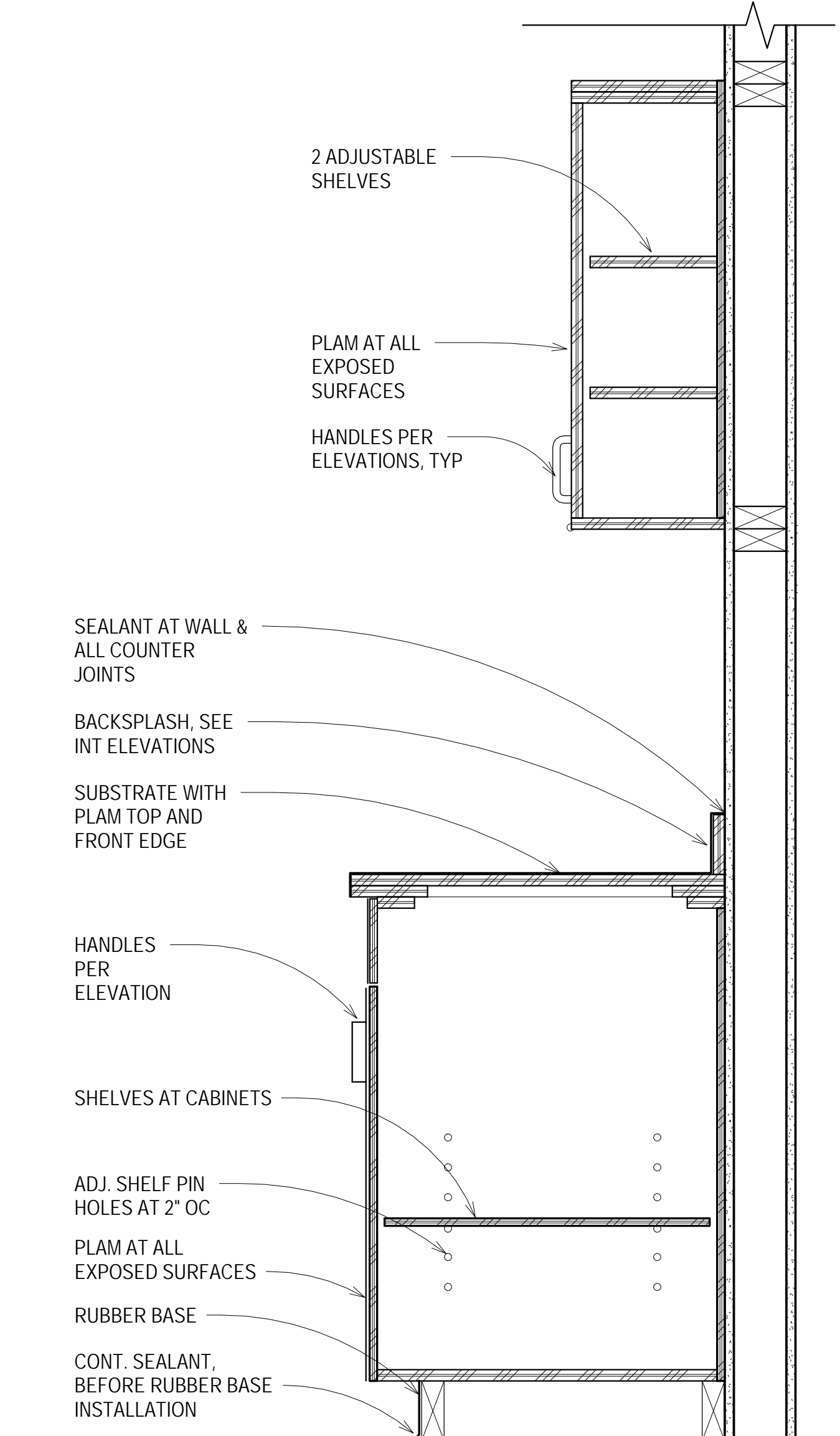
2 RECEPTION COUNTER SECTION  
1 1/2" = 1'-0"



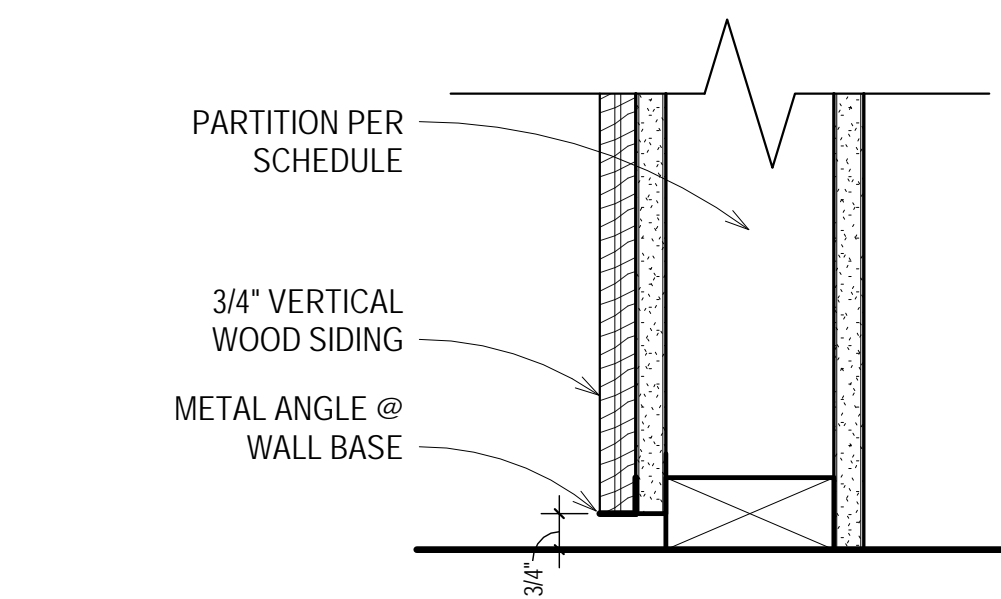
3 ADA COUNTER SECTION  
1 1/2" = 1'-0"



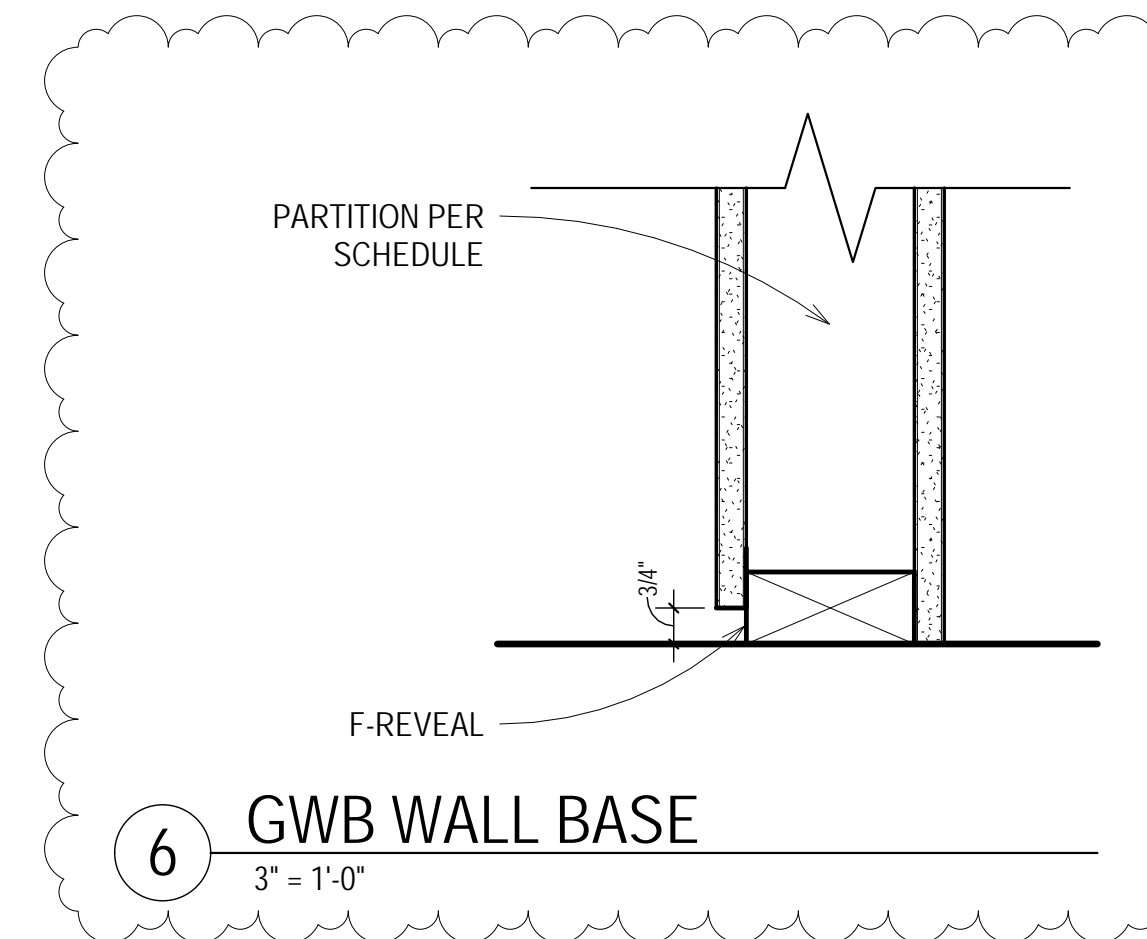
4 FITNESS ROOM CUBBIES  
1 1/2" = 1'-0"



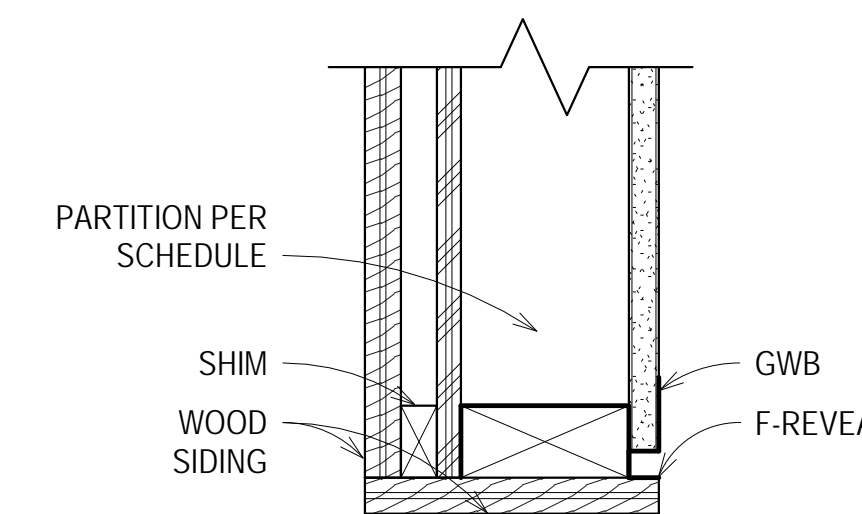
9 CASEWORK SECTION  
1 1/2" = 1'-0"



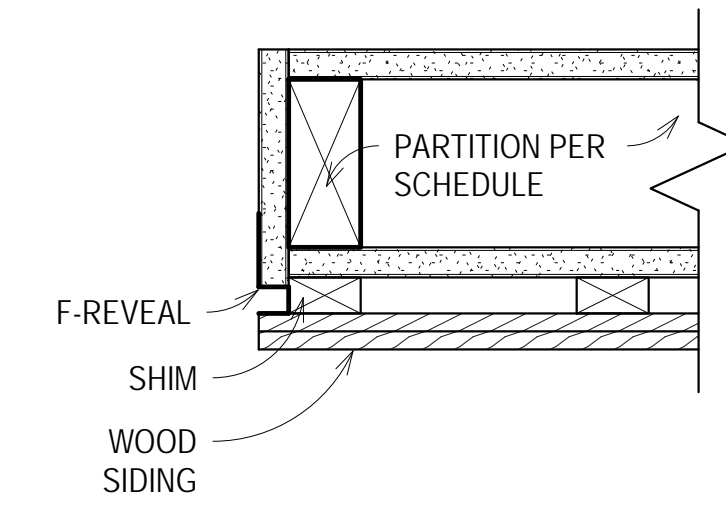
5 WOOD WALL BASE  
3" = 1'-0"



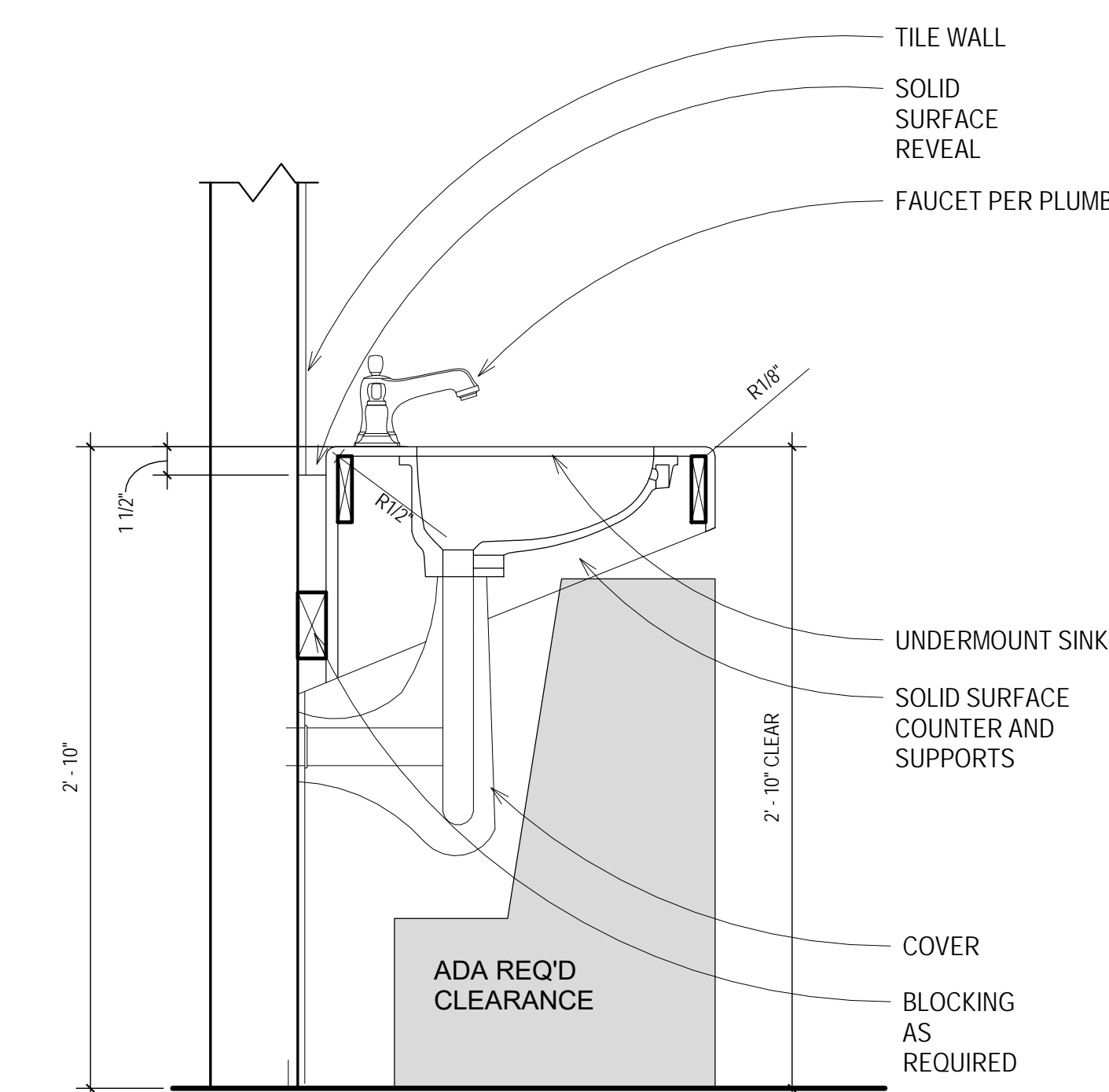
6 GWB WALL BASE  
3" = 1'-0"



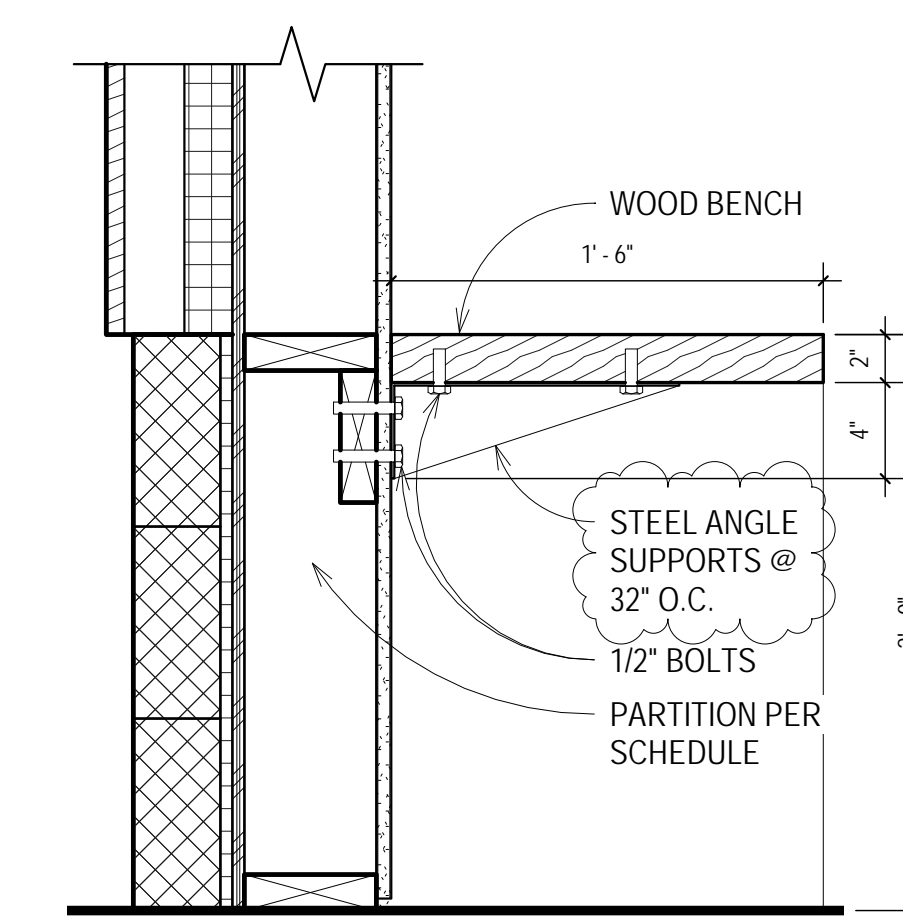
7 WOOD WALL CORNER DETAIL  
3" = 1'-0"



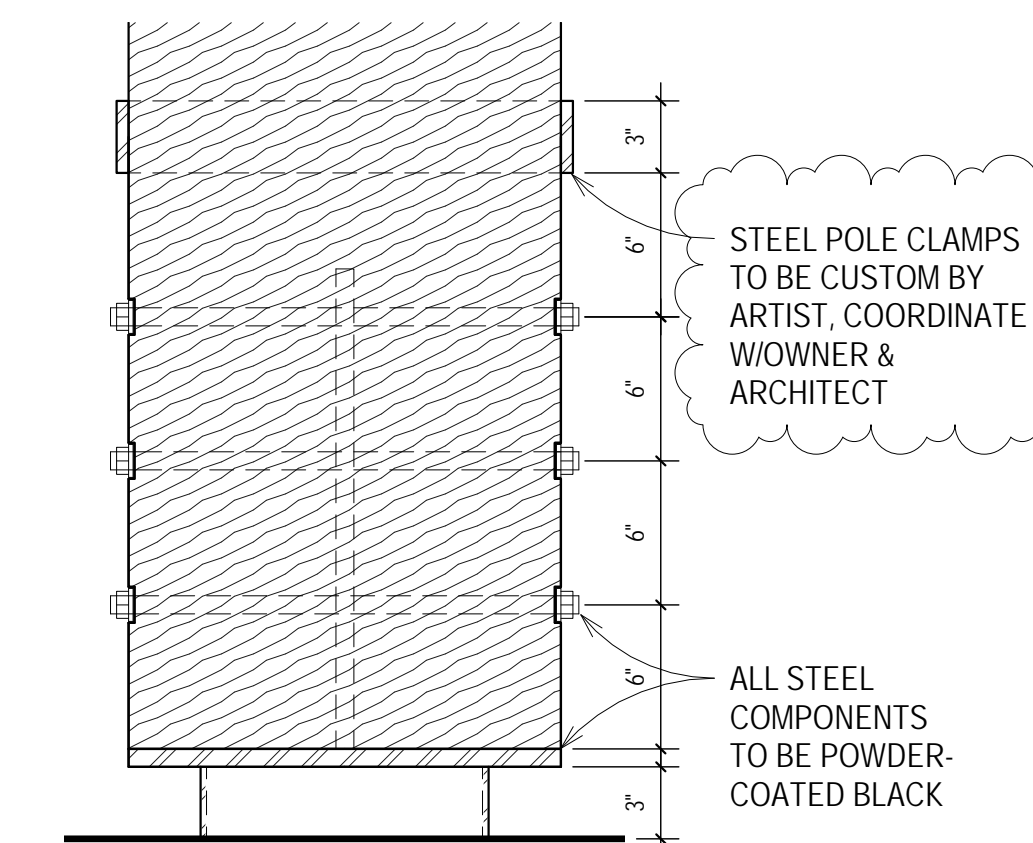
8 PORTAL JAMB DETAIL  
3" = 1'-0"



10 RESTROOM COUNTER  
1 1/2" = 1'-0"



11 BENCH SEAT  
1 1/2" = 1'-0"



12 COLUMN FOOTING  
1 1/2" = 1'-0"



**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

CONTENTS:

**INTERIOR DETAILS**

SCALE: As Indicated  
DRAWN: MP / CNB  
CHECKED: EGV  
PROJECT NO: 2020006.100





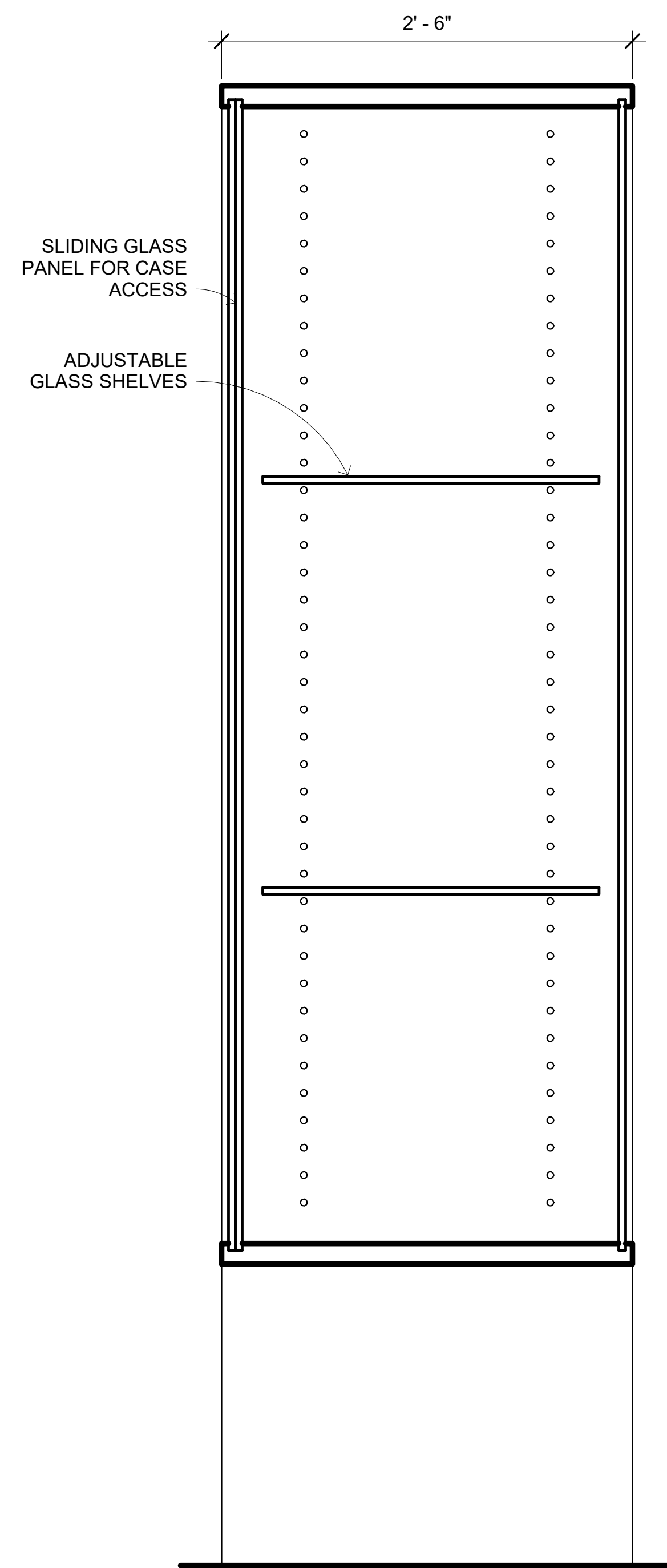
BID  
DOCUMENTS

ISSUE DATE: APRIL 16, 2021

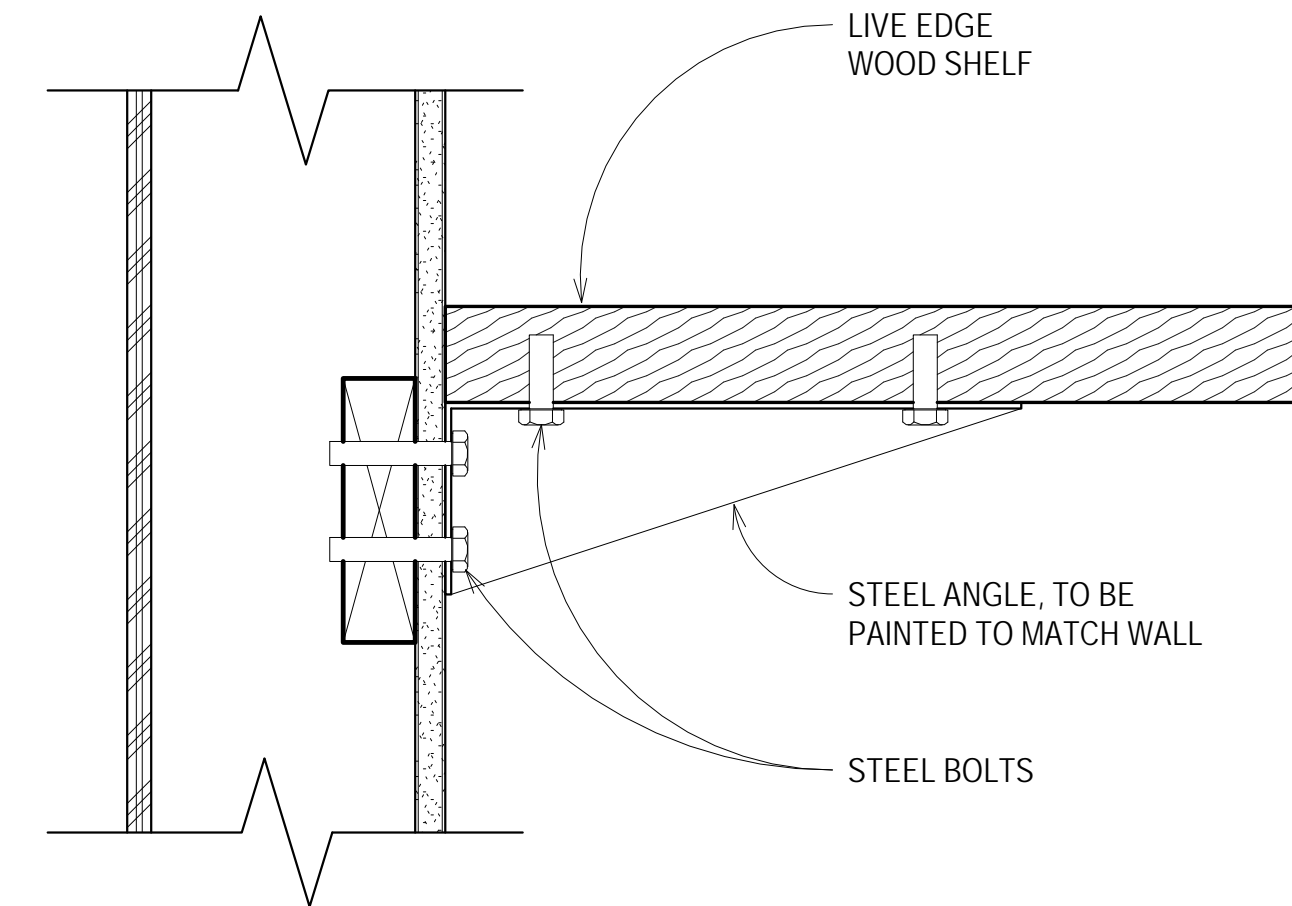
REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

CONTENTS:  
INTERIOR DETAILS  
- CUSTOM DISPLAY CASE

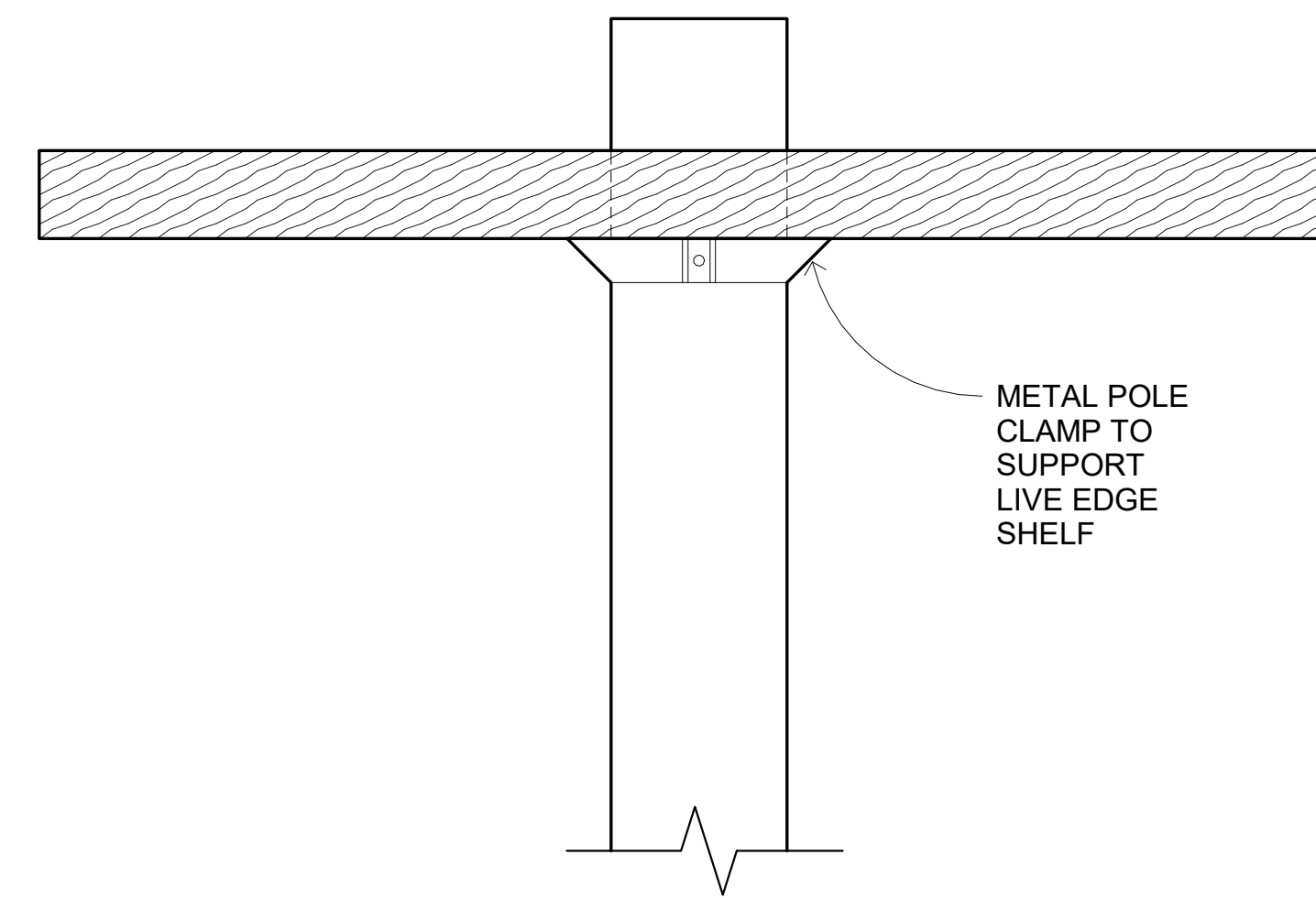
SCALE: As Indicated  
DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 2020006.100



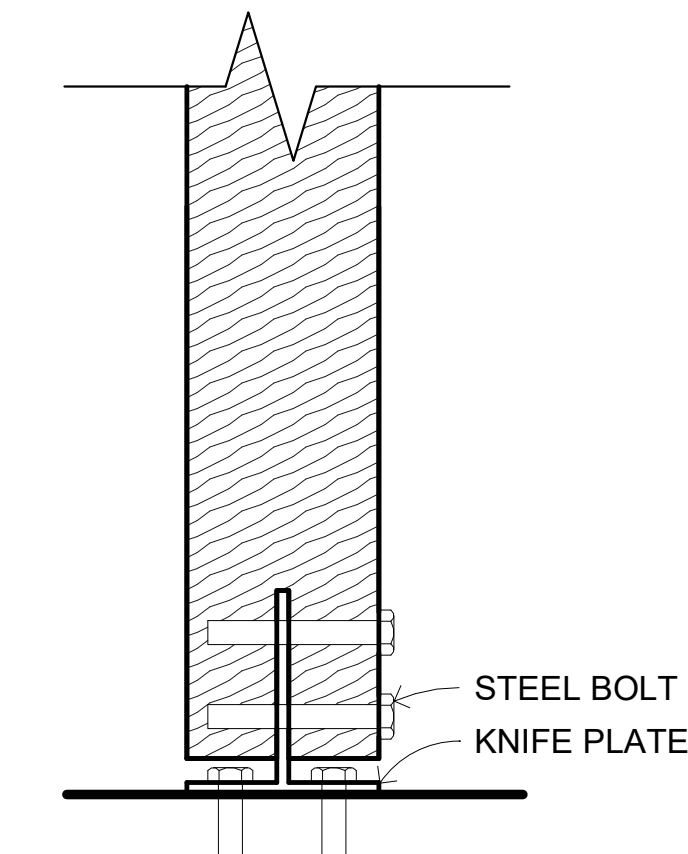
3 GLASS CASE SECTION  
1 1/2" = 1'-0"



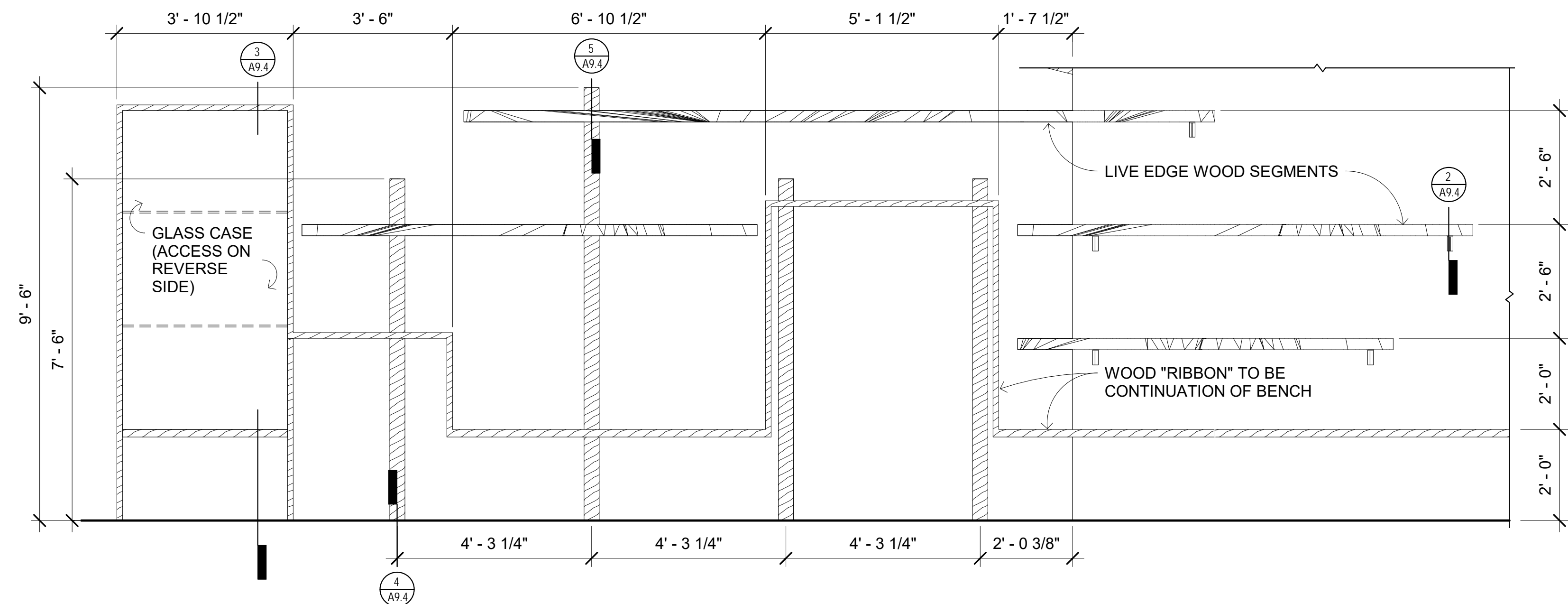
2 SHELF SECTION  
3" = 1'-0"



5 SHELF SUPPORT AT COLUMN  
3" = 1'-0"



4 DISPLAY CASE COLUMN  
3" = 1'-0"



1 CUSTOM DISPLAY CASE ELEVATION  
1/2" = 1'-0"





BID  
DOCUMENTS

ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION
BIDDERS	JUNE 14, 2021	ADDENDUM 1

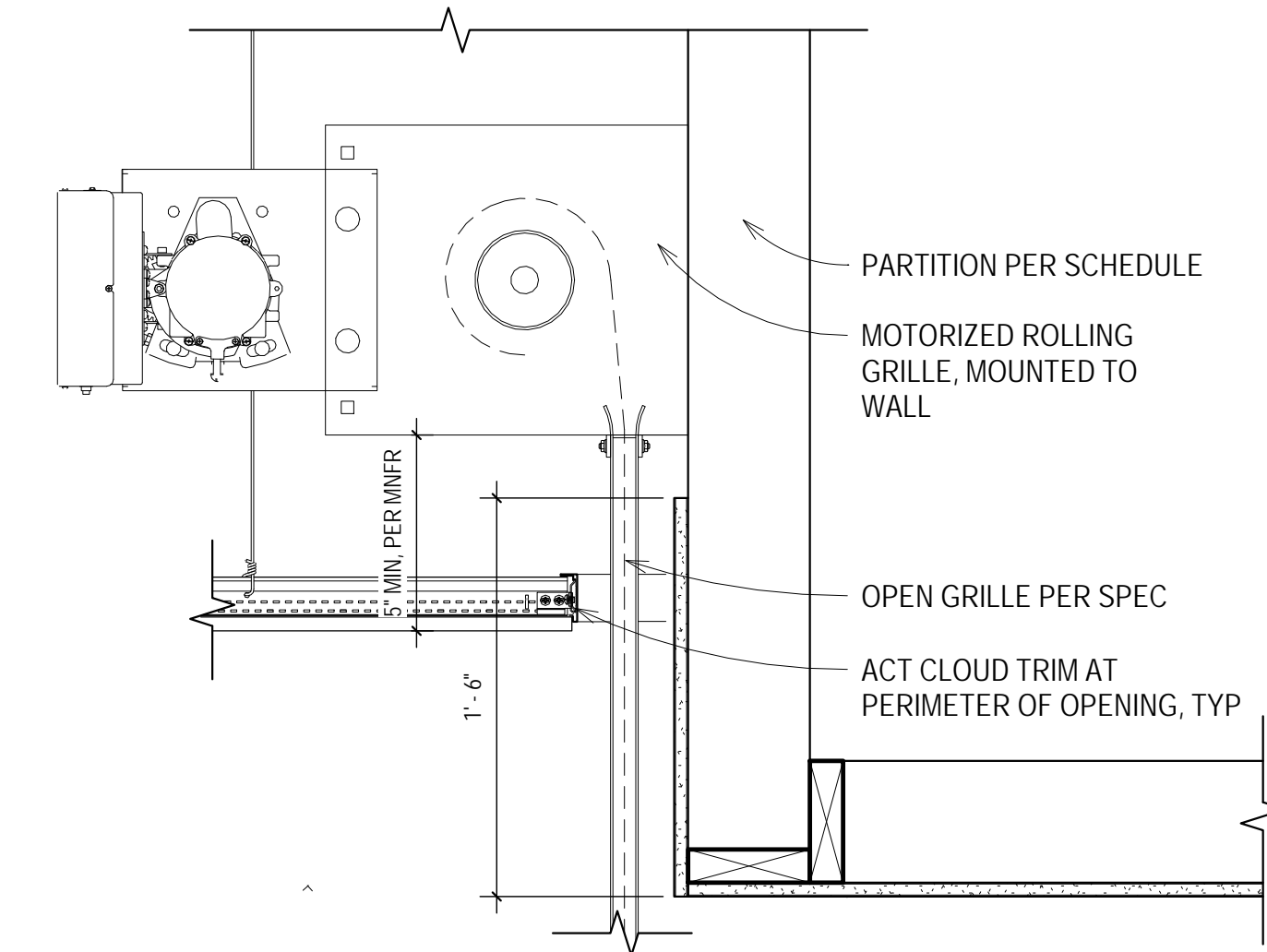
CONTENTS:

INTERIOR DETAILS

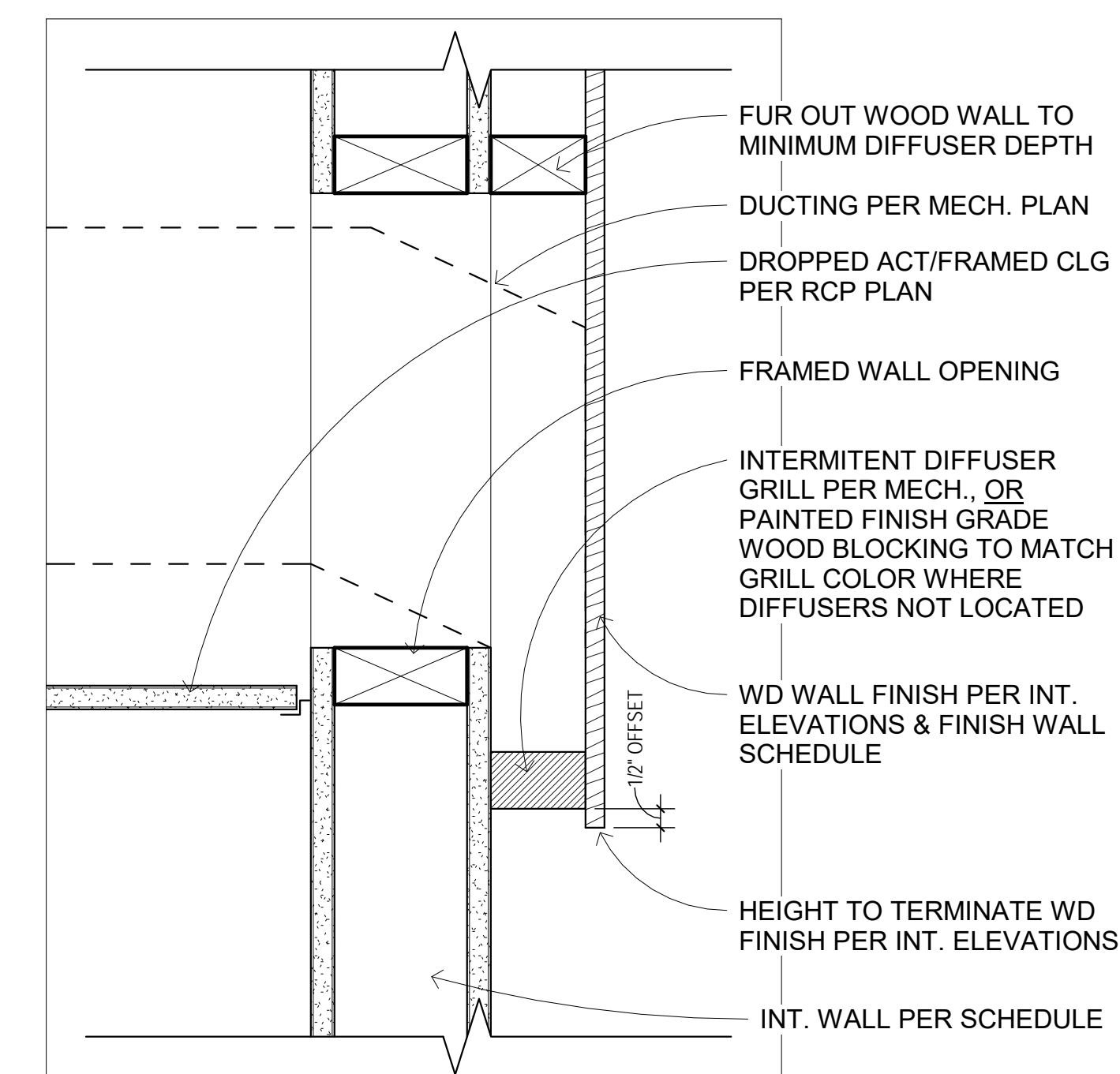
SCALE: As Indicated  
DRAWN: MP  
CHECKED: PRC  
PROJECT NO: 2020006.100

SHEET

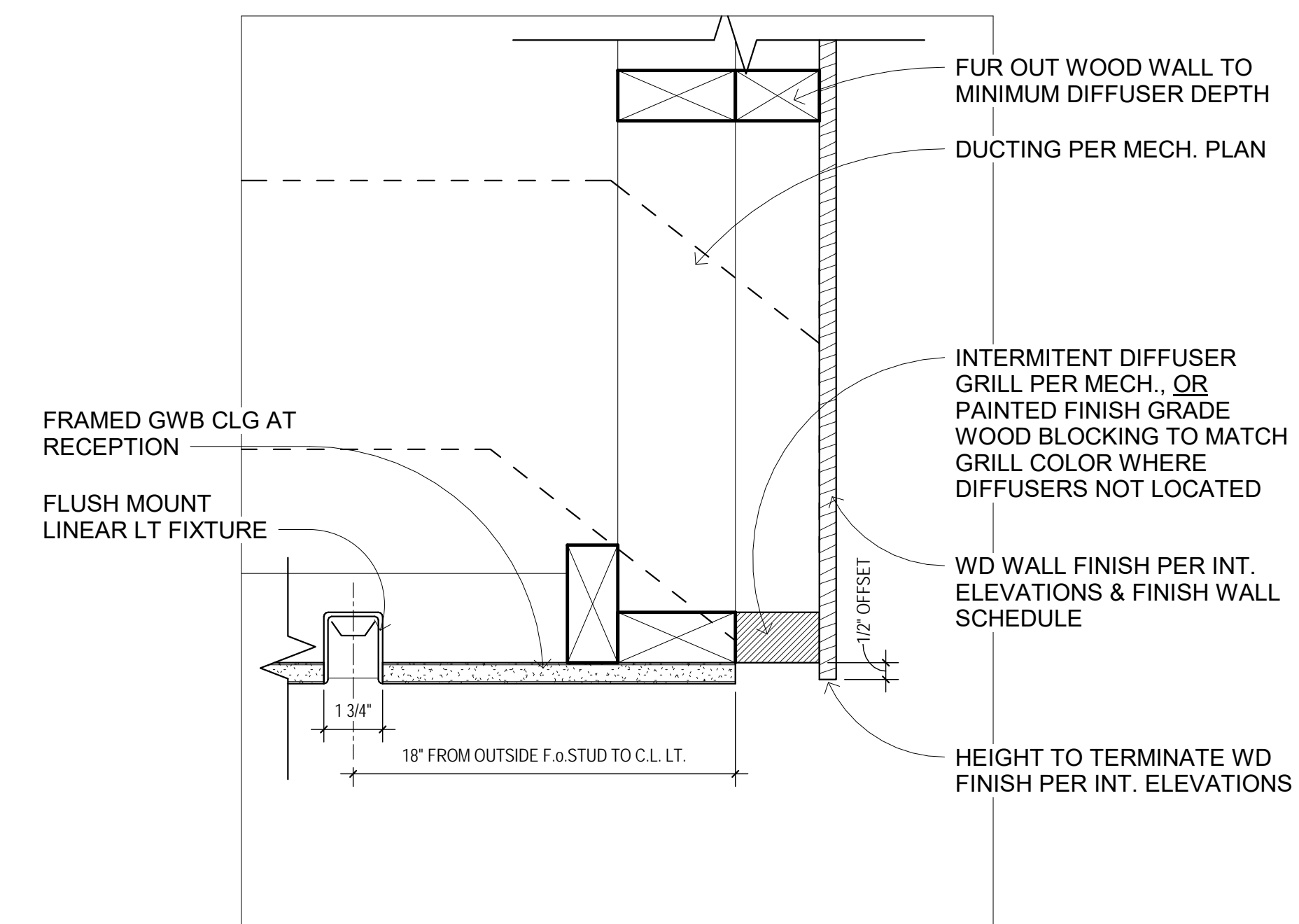
A9.5



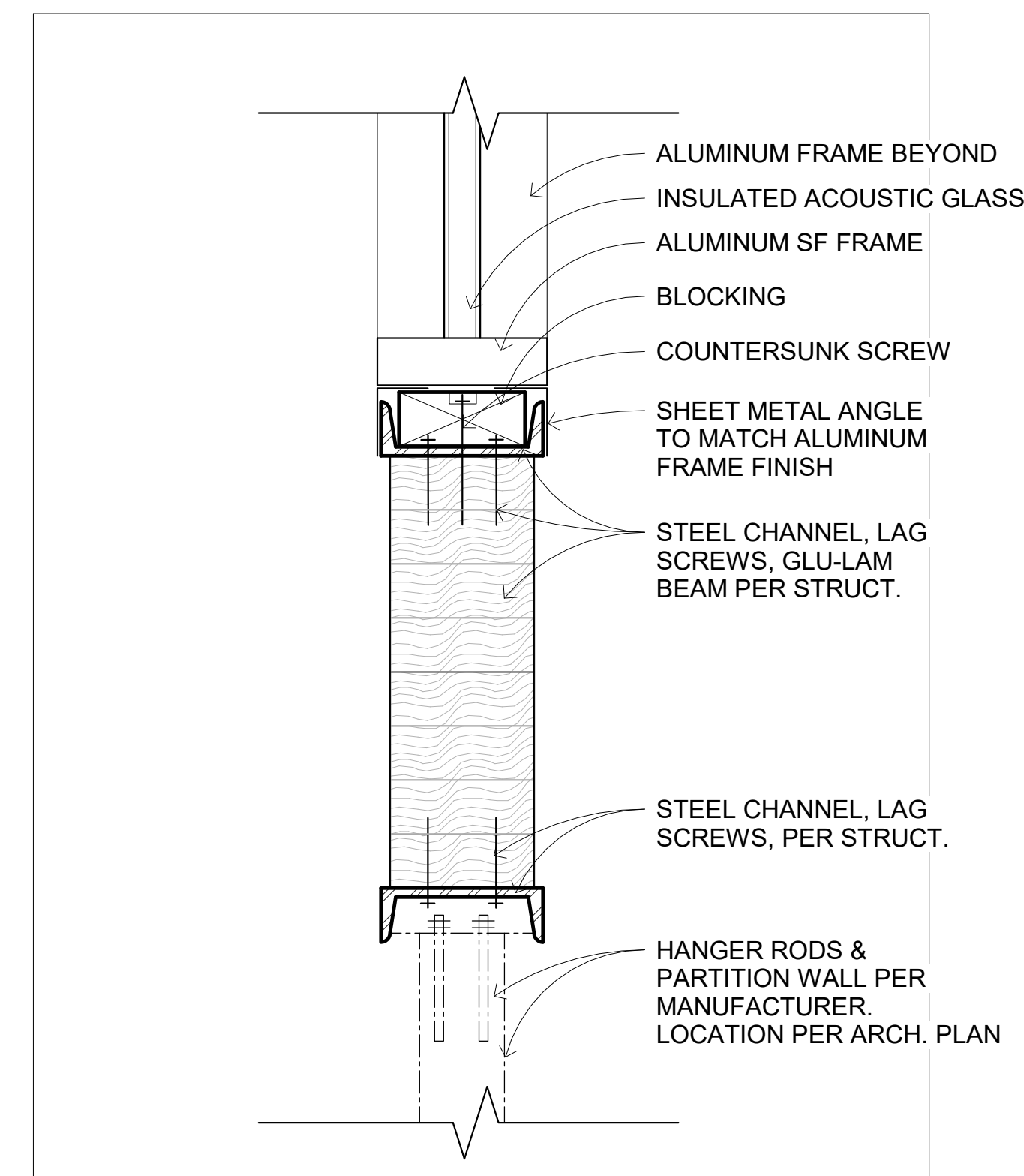
3 COILING GRILLE AT SERVERY WINDOW  
1 1/2" = 1'-0"



2 TYPICAL CONCEALED DIFFUSER  
3" = 1'-0"



1 RECEPTION DIFFUSER / LIGHT DETAIL  
3" = 1'-0"



4 OPERABLE PARTITION / BEAM DETAIL  
3" = 1'-0"



ROOM FINISHES SCHEDULE								
NUMBER	NAME	FINISH						
		FLOOR	BASE	N WALL	E WALL	S WALL	W WALL	CEILING
TOP OF SLAB								
100	VESTIBULE	WOM	AA	CW	IWC	CW	IWC	OTS
101	LOBBY/HALLS	CONC-1	F-REVEAL/AA	CW/IWC/GWB	IWC/CW	OPEN/CW/IWC/GWB	IWC/CW	OTS
102	RECEPTION	CPT-1	RBR	OPEN	OPEN/GWB	GWB/TB	GWB	GWB
103	OFFICE	CPT-1	RBR	GWB	GWB	GWB	GWB	ACT 1
104	OFFICE	CPT-1	RBR	GWB	GWB	GWB	GWB	ACT 1
105	MEDICAL	CPT-1	RBR	GWB	GWB	GWB	GWB	ACT 1
106	FITNESS	RES-1	RBR	GWB	GWB	GWB	GWB/MIRROR	ACT 1
107	JAN.	CONC-2	RBR	GWB	GWB/FRP	GWB/FRP	GWB	GWB
108	FIT. UNI.	TILE-1	TILE	TILE-B	GWB/TILE-B	TILE-B	GWB/TILE-B	GWB
109	WOMEN	TILE-1	TILE	TILE-B	GWB/TILE-B	GWB/TILE-B	GWB/TILE-B	GWB
110	TV 1	CPT-1	RBR	GWB	GWB	GWB	GWB	ACT 1
111	TV 2	CPT-1	RBR	GWB	GWB	GWB	GWB	ACT 1
112	MEN	TILE-1	TILE	GWB/TILE-B	GWB/TILE-B	TILE-B	GWB/TILE-B	GWB
113	LIBRARY	CONC-1/RES-3	F-REVEAL/AA	OPEN	GWB/IWC	SF/CMU-1/CMU-2	DISPLAY CASE/OPEN	OTS
114	CULTURAL ROOM	RES-3	RBR	GWB	GWB	GWB	GWB	ACT-1
115	STORAGE	RES-3	RBR	GWB	GWB	GWB	GWB	ACT-1
116	MEN	TILE-1	TILE	TILE-B	TILE-A/TILE-B/MIRROR	GWB	GWB	GWB
117	WOMEN	TILE-1	TILE	TILE-B	GWB	GWB	TILE-A/TILE-B/MIRROR	GWB
118	CLASSROOM	RES-3	F-REVEAL	SF/GWB	OPEN	GWB	GWB	OTS
119	CLOSET	RES-3	F-REVEAL	GWB	GWB	GWB	GWB	GWB
120	PART. ST.	RES-3	F-REVEAL	GWB	GWB	GWB	GWB	OTS
121	DINING ROOM	RES-3	F-REVEAL	SF/GWB	GWB	GWB	OPEN	OTS/GWB
122	UNI	TILE-1	TILE	TILE-B	GWB/TILE-B	GWB/TILE-B	GWB/TILE-B	GWB
123	KITCHEN OFFICE	CPT-1	RBR	GWB	GWB	GWB	GWB	ACT-1
124	PANTRY	CONC-2	RBR	GWB	GWB	GWB	GWB	GWB
125	MECH.	CONC-2	RBR	GWB/PLY	GWB/PLY	GWB/PLY	GWB/PLY	OTS
126	STOR.	CONC-2	RBR	GWB	GWB	GWB	GWB	GWB
127	IT	CONC-2	RBR	GWB/PLY	GWB/PLY	GWB/PLY	GWB/PLY	GWB
128	ELEC.	CONC-2	RBR	GWB/PLY	GWB/PLY	GWB/PLY	GWB/PLY	OTS
129	KITCHEN	RES-2	COVED	GWB/SSP	GWB/SSP	GWB/SSP	GWB/SSP	ACT-2
130	OUTDOOR DINING	CONC-2	F-REVEAL/AA	IWC	GWB	SF/GWB	SF/GWB	OTS
131	FIRE RISER	CONC-2	RBR	GWB/PLY	GWB/PLY	GWB/PLY	GWB/PLY	OTS
132	W HALL	CONC-1	F-REVEAL/AA	OPEN	SF/GWB/OPEN	SF/GWB	GWB/IWC	OTS, SLWC
134	IT CLO.	RES-1	RBR	GWB	GWB	GWB	GWB	GWB

LEGEND	
	EXTENT OF PAINT
	DIRECTION OF CARPET OR WOOD INSTALLATION
	CORNER GUARD
	CONCRETE MASONRY UNIT
	CONCRETE
	CONTROL JOINT, SEE GENERAL NOTES
	CURTAIN WALL SYSTEM
	FACTORY FINISH
	FIELD APPLIED PAINT
	GYPSUM WALL BOARD
	INTERIOR WOOD CLADDING
	OPEN TO BEYOND
	OPEN TO STRUCTURE
	PLYWOOD PANELS
	RUBBER BASE
	RESILIENT
	CLEAR SEALER
	STOREFRONT SYSTEM
	SUSPENDED LINEAR WOOD CEILING
	STAINLESS STEEL PANEL
	STAIN

#### COMMENTS:

- CASEWORK NOT INCLUDED IN THIS SCHEDULE. SEE INT ELEVS.
- SSP PER FOOD SERVICE DRAWINGS/SPECIFICATIONS
- PLY MOUNTING BOARDS PER ELEC REQUIREMENTS
- MIRRORS PER INT ELEVATIONS
- GWB SOFFIT WHERE OCCUR, SEE RCP
- WOOD WALL FINISH PER INTERIOR ELEVATIONS
- ACOUSTIC WALL PANELS PER INT ELEVS
- ACOUSITC CEILING BAFFLES PER RCP
- SUSPENDED ACOUSTIC CEILING PANELS PER RCP
- SEE INT ELEVS FOR FULL EXTENT OF TILE TYPE AND PLACEMENT
- BLUE BOARD DRYWALL AT ALL PLUMBING, SHOWER & TILE WALLS

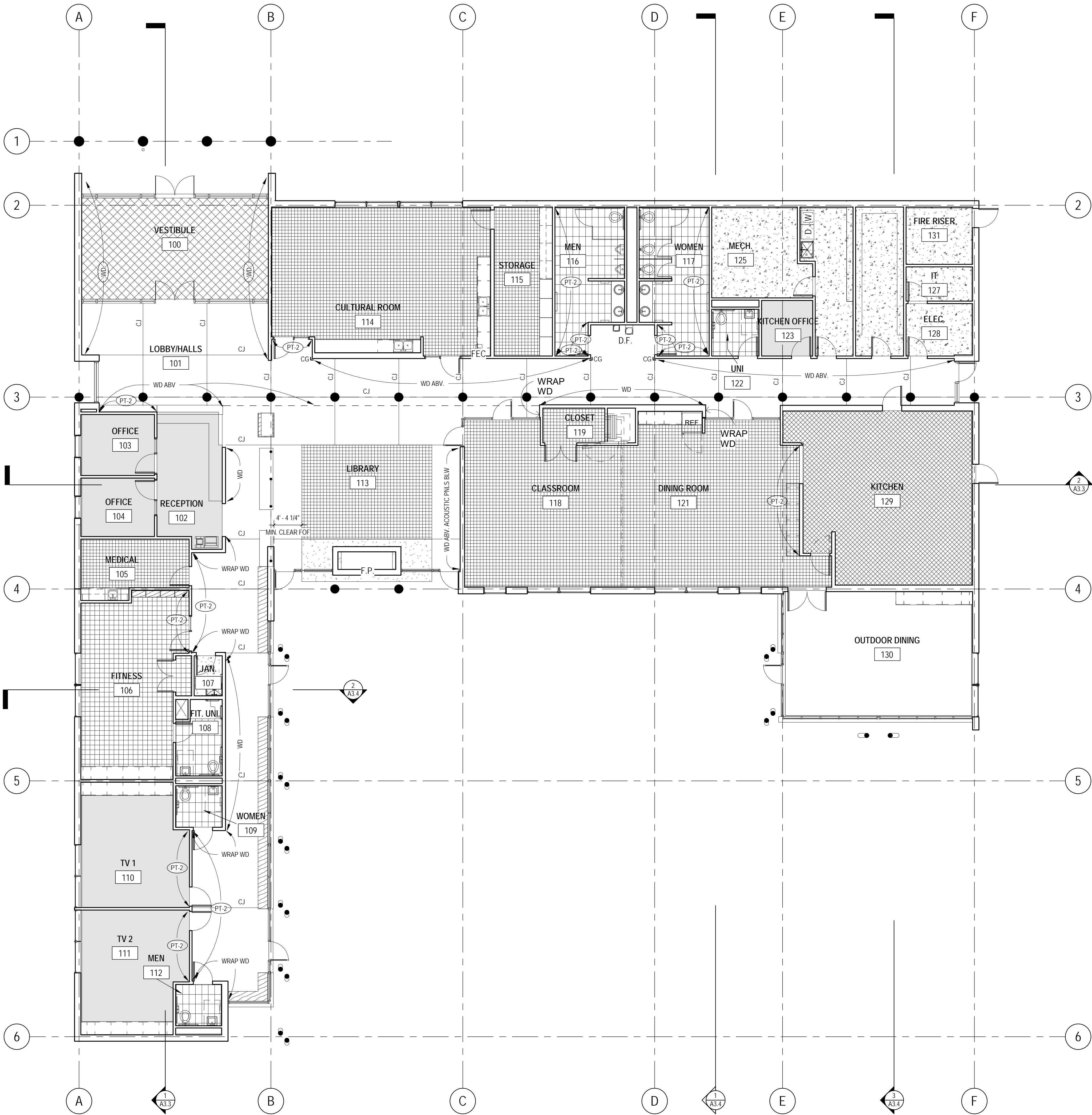
#### FINISH PLAN NOTES:

- PAIN AT GWB WALLS TO BE PT-1, SATIN FINISH, U.O.N.
- FINISH AT INTERIOR EXPOSED CARDECK CEILINGS TO BE CLEAR STAIN, U.O.N.
- ALL EXPOSED DUCTWORK, CONDUIT, GRILLES TO BE PAINTED
- ONLY EXPOSED CONTROL AND ISOLATION JOINTS SHOWN IN THESE PLANS; SEE STRUCTURAL FOR ADDITIONAL ISOLATION, CONSTRUCTION, AND CONTRACT JOINT INFORMATION.

COLOR SCHEDULE				
BUILDING COMPONENT	FINISH	COLOR	SHEEN	NOTES
CAR DECKING AND GLU-LAM BEAMS	SEAL	CLEAR	LOW GLOSS	
'BURNT' WOOD SIDING	FF	MFR'S CLEAR COAT, PER SPEC	PER SPEC	
STANDING SEAM METAL ROOF	FF	ZACTIQUE II	N/A	
SHEET METAL GUTTERS & DOWNSPOUTS	FF	MATCH ROOF PANELS	N/A	BY METAL PANEL MFR
STEEL GUTTER BRACKETS	HPC	PT-4 (GRAY)	LOW GLOSS	SELECTED TO MATCH ROOF PANEL COLOR
MISC STEEL CONNECTIONS	HPC	PT-3 (BRONZE)	LOW GLOSS	SELECTED FROM MFR STANDARD COLORS
HOLLOW METAL DOORS/FRAMES (EXT)	HPC	PT-3 (BRONZE)	SEMI GLOSS	SELECTED FROM MFR STANDARD COLORS
HOLLOW METAL DOORS/FRAMES (INT)	HPC	PT-X	SEMI GLOSS	TO MATCH SURROUNDING WALL
SHEET METAL FLASHING @ ROOF	FF	MATCH ROOF PANELS	N/A	BY METAL PANEL MFR
SHEET METAL FLASHING AT OPENINGS	FF	BRONZE	N/A	SELECTED FROM MFR STANDARD COLORS
FIBERGLASS WINDOWS	FF	BRONZE	N/A	SELECTED FROM MFR STANDARD COLORS
PEELER POLE COLUMNS	SEAL	CLEAR	LOW GLOSS	
CONCRETE MASONRY UNITS	SEAL	CLEAR	LOW GLOSS	
CURTAIN WALL SYSTEM	FF	PER SPEC (BRONZE)	N/A	SELECTED FROM MFR STANDARD COLORS
STOREFRONT SYSTEM	FF	PER SPEC (BRONZE)	N/A	SELECTED FROM MFR STANDARD COLORS
LIGHTED BOLLARDS	FF	PER SPEC (BRONZE)	N/A	SELECTED FROM MFR STANDARD COLORS
STEEL BOLLARDS	HPC	PT-3 (BRONZE)	LOW GLOSS	SELECTED FROM MFR STANDARD COLORS
MECHANICAL LOUVERS	FF	BRONZE	LOW GLOSS	SELECTED FROM MFR STANDARD COLORS
BROOMED CONCRETE FLOORS	SEAL	CLEAR	LOW GLOSS	
POLISHED CONCRETE FLOORS	SEAL	CLEAR	HIGH GLOSS	
SUSPENDED LINEAR WOOD CEILINGS	SEAL	CLEAR	LOW GLOSS	
MECHANICAL GRILLES (INTERIOR)	PT	PT-X	SEMI GLOSS	PAINT TO MATCH SURROUNDING WALL
GYPSUM WALL BOARDS WALLS, TYP U.N.O	PT	PT-1 (WHITE)	SEMI GLOSS	SELECTED FROM MFR STANDARD COLORS
GYPSUM WALL BOARD ACCENT WALLS	PT	PT-2 (ACCENT)	SEMI GLOSS	SELECTED FROM MFR STANDARD COLORS
GYPSUM WALL BOARD CEILINGS	PT	PT-1 (WHITE)	SEMI GLOSS	SELECTED FROM MFR STANDARD COLORS

GENERAL NOTE: UNLESS NOTED HERE, COLOR AND SHEEN ARE TYPICALLY DEFINED IN THE SPECIFICATIONS.

Color / Finish



#### 1 FINISH PLAN

1/8" = 1'-0"

#### FINISH GRAPHIC LEGEND

	CONCRETE 1		CARPET		SHEET VINYL FLOORING		WALK-OFF MAT
	CONCRETE 2		LUXURY VINYL TILE FLOORING		FITNESS RUBBER FLOORING		TILE

arc  
ARCHITECTS

119 S MAIN ST  
SUITE 200  
SEATTLE, WA  
98104-2579  
206 322 3322

The Chehalis Tribe  
Chehalis Elders Center

NIEDERMAN RD  
OAKVILLE, WA 98568



#### BID DOCUMENTS

ISSUE DATE: APRIL 16, 2021

REVISION	DATE	DESCRIPTION

CONTENTS:

#### 1st FLOOR FINISH PLAN

SCALE:	As indicated
DRAWN:	PRC
CHECKED:	SWL
PROJECT NO:	2020006.100

SHEET:

A10.1