

Burlington Development Review Board

Department of Permitting & Inspections
645 Pine Street
Burlington, VT 05401
www.burlingtonvt.gov/DPI/DRB
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AJ LaRosa
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Sean McKenzie
Brad Rabinowitz
Leo Sprinzen
Miles Waite
Marina Campbell, (Alternate)
Evan Gould, (Alternate)



Development Review Board

Tuesday, August 20, 2024, 5:00 PM

645 Pine Street, Front Conference Room or Remote on Zoom:

Please click the link below to join the webinar:

Zoom: <https://us02web.zoom.us/j/83225696227?pwd=SGQ0bTdnS000Wkc3c2J4WWw1dzMxUT09>

Webinar ID: 832 2569 6227

Passcode: 969186

**Telephone: US +1 929 205 6099 or +1 301 715 8592 or +1 312 626 6799 or +1 669 900 6833 or +1 253 215 8782
or +1 346 248 7799**

1. Agenda

2. Communications

3. Minutes

4. Consent

4.1.

ZP-21-800; 501 Pine Street (E-LM, Ward 5) Vermont Gas Systems, Inc. / Kurt Schueler

Proposed time extension request to develop a container kitchen/food truck café on existing vacant property. (Project Manager, Scott Gustin)

5. Public Hearing

5.1.

ZP-24-148; 49-55 Chase Street (RL, Ward 1) Chase Street 49, LLC / Missa Aloisi

Proposed subdivision of existing lot into four separate parcels. Development plan includes residential unit expansions to existing structures and construction of one new four-unit apartment building. (Project Manager, Garret King)

6. Certificate of Appropriateness

6.1.

ZP-24-262; 228 North Winooski Avenue (NMU, Ward 2) Champlain Housing Trust / Eli Maroscher

Proposed construction of addition to Feeding Champlain Valley facility. (Project Manager, Mary O'Neil)

7. Adjournment

8. Informational and Non-Discrimination Statements

8.1.

Plans may be viewed upon request by contacting the Department of Permitting & Inspections between the hours of 8:00 a.m. and 4:30 p.m. Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Zoning office is considered public and cannot be kept confidential. This may not be the final order in which items will be heard. Please view final Agenda, at www.burlingtonvt.gov/dpi/drb/agendas or the office notice board, one week before the hearing for the order in which items will be heard.

The City of Burlington will not tolerate unlawful harassment or discrimination on the basis of political or religious affiliation, race, color, national origin, place of birth, ancestry, age, sex, sexual orientation, gender identity, marital status, veteran status, disability, HIV positive status, crime victim status or genetic information. The City is also committed to providing proper access to services, facilities, and employment opportunities. For accessibility information or alternative formats, please contact Human Resources Department at (802) 540-2505.

Department of Permitting & Inspections

Zoning Division
645 Pine Street
Burlington, VT 05401
Telephone:(802) 865-7188

*William Ward, Director
Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Garret King, Associate Planner
Joseph Cava, Permit Technician
Steve Cormier, Code Compliance Officer
Ted Boylan, DPI Administrator*



TO: Development Review Board
FROM: Garret King
DATE: August 20th, 2024
RE: ZP-24-148; 49-55 Chase Street

Dear Members of the DRB

The application for 49-55 Chase Street remains incomplete and still requires review by Conservation Board at this time, and therefore will need to be deferred to a later date. This application should be deferred to a date uncertain.

-Staff, Garret King

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TO: Development Review Board
FROM: Scott Gustin
DATE: August 20, 2024
RE: ZP-21-800; 501 Pine Street

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Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.

Zone: ELM Ward: 5

Owner/Applicant: Vermont Gas Systems / Kurt Schueler

Request: Time extension for permit to develop a container kitchen / food truck café on existing vacant property.

Applicable Regulations:

Article 3 (Applications, Permits, & Project Reviews)

Background Information:

The applicant is requesting a time extension for zoning permit ZP-21-800, which was granted to develop a container kitchen café on the vacant property. The containers proposed for use are steel shipping containers (20' X 40'). A covered seating area will locate centrally on the property, and a one-way pick-up/drop-off driveway is also proposed at the front. The property is within the boundaries of the Pine Street Canal superfund site. This application has required coordination with EPA and VT DEC. A corrective action plan for the project was approved by VT DEC on June 21, 2023.

Previous zoning actions for this property are as follows:

- 6/29/22, Approval to develop a container kitchen / food truck café
- 7/8/21, Approval to develop a seasonal outdoor café (superseded)

Recommendation: Denial as per, and subject to, the following findings:

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I. Findings

Article 3: Applications, Permits, and Project Reviews

Sec. 3.2.9, Zoning Permits

(d) Time Limits on Zoning Permits:

This section allows applicants 1 year to initiate work on their approved project and an additional 2 years (for a total of 3) to complete their project. Provision is made for up to two 1-year time extensions. Approval of a time extension is predicated on making the request prior to expiration of the zoning permit and continuing compliance with applicable zoning standards.

In this case, the zoning permit was approved June 29, 2022; however, the corrective action plan was not approved by VT DEC until June 21, 2023. Per subsection (f), *Exceptions to Permit Time Limits*, the 1-year to start the zoning permit project did not commence until the date of corrective action plan approval. The applicant submitted a zoning permit time extension request within 1 year as required.

Since approval of this project, the South End Innovation District Overlay was adopted and affects the subject property. Time extension approval is predicated on compliance with applicable zoning standards. In this case, the use remains permissible; however, the site is not compliant with the current standards. For example, current standards per Table 4.5.6-1, *SEID Dimensional Standards & Density*, require that at least 25% of the site's pervious area utilize green stormwater infrastructure such as constructed wetlands, suspended pavement planted with shade trees, or pervious pavement (no more than 50% of the required GSI area may utilize pervious pavement). The project does include pervious pavement, but that is the only GSI technique proposed. In addition, Sec. 4.5.6 (c) 3, *Parking, A*, prohibits parking between the buildings and the street. The project includes 3 parking spaces between the buildings and the street. It seems that with some site modifications, this project could be approved with a new zoning permit; however, the previously permitted design lacks compliance with current standards. **(Adverse finding)**

II. Reasons for Denial

1. Per Sec. 3.2.9 above.

Burlington Development Review Board

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Brad Rabinowitz
AJ LaRosa
Geoffrey Hand
Brooks McArthur
Caitlin Halpert
Chase Taylor
Leo Sprinzen
Sean McKenzie (Alt.)



Burlington Development Review Board Findings of Fact Deliberative Hearing Tuesday, June 21, 2022

In RE: ZP-21-800; 501 Pine Street (Ward 5S, ELM) (Tax Lot No. 053-1-001-000)

Owner/Applicant: Vermont Gas Systems, Inc. / Kurt Schueler

Request: Develop a container kitchen/food truck café on the vacant property (café use).

Members Present:

Brad Rabinowitz
AJ LaRosa
Caitlin Halpert
Brooks McArthur
Leo Sprinzen
Sean McKenzie

Evidence Presented:

The Board examined the materials submitted in support of this request.

I. FINDINGS

Background Information:

The applicant is requesting approval to develop a container kitchen café on the vacant property. The containers proposed for use are steel shipping containers (20 & 40 ft long). A covered seating area will locate centrally on the property, and a one-way pick-up/drop-off driveway is also proposed at the front.

The property is located within the identified Pine Street Canal Superfund Site, and is also classified as a brownfield site. The applicant has been working with the interested parties to ensure compliance with EPA and State requirements.

A similar project was approved for a food trucks/carts, with no permanent structures, in July 2021. This new project will replace the previously approved development. The DAB reviewed this project on January 11, 2022 and on May 10, 2022. A recommendation of approval was made, with the following conditions:

1. Overhangs/awnings should be provided at each ordering window;
2. Provide sufficient lighting at the restroom entries;
3. Add curbing along the driveway to prevent vehicles from driving onto the sidewalk and planting areas;
4. Consider installing solar panels; and

5. Include staff recommendations and conditions.

The applicant updated the plans to include each recommended condition, with the exception of no solar panels at this time. Documentation/plans pertaining to the brownfield and Pine Street Canal Superfund Site are still pending as the applicant continues to work with the involved agencies.

Article 3: Applications, Permits, and Project Reviews

Part 3: Impact Fees

Section 3.3.2 Applicability

Any new development or additions to existing buildings which result in new dwelling units or in any new non-residential buildings square footage are subject to impact fees.

Impact fees shall be calculated based on the total gross square footage of the principal use. Per the submitted plans, an estimate of the fees is:

SF of Project 1,280

Department	<u>Retail</u>	
	Rate	Fee
Traffic	0.839	1,073.92
Fire	0.227	290.56
Police	0.400	512.00
Parks	0.478	611.84
Library	0.000	0.00
Schools	0.000	0.00
Total	1.944	\$ 2,488.32

(Affirmative finding as conditioned)

Part 5, Conditional Use & Major Impact Review:

Section 3.5.6 Review Criteria

(a) Conditional Use Review Standards

Approval shall be granted only if the DRB, after public notice and public hearing, determines that the proposed conditional use and associated development shall not result in an undue adverse effect on each of the following general standards:

1. *Existing or planned public utilities, facilities or services are capable of supporting the proposed use in addition to the existing uses in the area;*

The project will see new electric and water utilities connected to the site. The proposal should have no appreciable impacts on existing or planned public utilities, services, or facilities. The applicant is advised to check with VT DEC as to whether a state wastewater permit is needed.

(Affirmative finding as conditioned)

2. *The character of the area affected as defined by the purpose or purposes of the zoning district within which the project is located, and specifically stated policies and standards of the municipal development plan;*

The Enterprise-Light Manufacturing zoning district is the primary commercial/industrial center of Burlington, and is intended to accommodate enterprises engaged in the manufacturing, processing, distribution, renovating, or assembling of goods, merchandise, or equipment without potential conflicts from interspersed residential uses. Other commercial uses are allowed as primary or accessory uses to support a wide range of services and employment opportunities. The proposed café use is allowed in the zone as a conditional use. **(Affirmative finding)**

3. *The proposed use will not have nuisance impacts from noise, odor, dust, heat, and vibrations greater than typically generated by other permitted uses in the same zoning district;*

Contrary to other uses within the district that may be manufacturing or utilizing machinery and equipment that emit greater volumes of noise and dust, the proposed development will not induce similar nuisance impacts. **(Affirmative finding)**

4. *The transportation system is capable of supporting the proposed use in addition to the existing uses in the area. Evaluation factors include street designations and capacity; level of service and other performance measures; access to arterial roadways; connectivity; transit availability; parking and access; impacts on pedestrian, bicycle and transit circulation; safety for all modes; and adequate transportation demand management strategies;*

Pine Street is a major arterial with sidewalks on both sides. There are transit stops within walking distance from the subject property. Pine Street has an articulated bicycle lane as well. There is a robust transportation system in place to support the proposed use. **(Affirmative finding)**

5. *The utilization of renewable energy resources;*

No part of this application would prevent the use of wind, water, solar, or other renewable energy resources. **(Affirmative finding)**

6. *Any standards set forth in existing City bylaws and city and state ordinances;*

Required building and/or life safety codes will be under the review of the building inspector. **(Affirmative finding as conditioned)**

(b) Major Impact Review Standards

Not applicable.

(c) Conditions of Approval:

In addition to imposing conditions of approval necessary to satisfy the General Standards specified in (a) or (b) above, the DRB may also impose additional conditions of approval relative to any of the following:

1. *Mitigation measures, including but not limited to screening, landscaping, where necessary to reduce noise and glare and to maintain the property in a character in keeping with the surrounding area.*

The café use is not expected to produce adverse effects that would exceed those of other uses allowed in the ELM zoning district. **(Affirmative finding)**

2. Time limits for construction.

The zoning permit will have the standard timelines to complete construction: 1 year from the approval date to commence construction, and 2 more years to complete the project.

(Affirmative finding)

3. Hours of operation and/or construction to reduce the impacts on surrounding properties.

Typical construction hours are Monday-Friday 7:30 am to 5:30 pm, Saturdays limited to interior work unless specific allowances are granted by the DRB, and no construction permitted on Sundays. The café use will operate between the hours of 11:00 am and 10:00 pm.

(Affirmative finding as conditioned)

4. That any future enlargement or alteration of the use return for review to the DRB to permit the specifying of new conditions; and,

Any future enlargement or alteration will be reviewed under the zoning regulations in effect at that time. **(Affirmative finding as conditioned)**

5. Such additional reasonable performance standards, conditions and safeguards, as it may deem necessary to implement the purposes of this chapter and the zoning regulations.

Not applicable.

Article 4: Maps & Districts

Section 4.4.3 Enterprise Districts

(a) Purpose

1. The Light manufacturing district is the primary commercial/industrial center of Burlington, and is intended primarily to accommodate enterprises engaged in the manufacturing, processing, distribution, creating, repairing, renovating, painting, cleaning, or assembling of goods, merchandise, or equipment without potential conflicts from interspersed residential uses. ...This district is primarily intended to provide for industrial uses suitable for location in areas of proximity to residential development. Development is intended to respect interspersed in historic industrial buildings, and reflect the industrial aesthetic of the district's past. Parking is intended to be hidden within, behind, or to the side of structures.

‘Café’ is a conditional use in the ELM zoning district, which will be the primary use of the property. Parking is not required since the property is within the Multimodal Mixed Use Parking District. The site plan, however, includes three short-term pick-up parking spaces along the entrance drive in the front. **(Affirmative finding)**

(b) Dimensional Standards and Density

Table 4.4.3 -1 Dimensional Standards and Density

Districts	Max. Intensity (floor area)	Max. Lot Coverage¹	Minimum Building Setbacks¹ (feet)			Max. Height¹ (feet)
			Front	Side	Rear³	

	<i>ratio¹⁾</i>					
Light Manufacturing	2.0 FAR	80%	5 min	0 ²	10% ²	45'
501 Pine Street	n/a	78.4%	Approx. 17 ft to the closest container.	5' to the food truck pads.	A 60' deep lot requires a 6 ft rear yard setback. The site plan shows a 6 ft rear yard setback to the containers.	< 45'

1 – Floor area ratio is further described in Art 5. Measurement of and exceptions to coverage, setback, and height standards are found in Art 5. Actual maximum build out potential may be reduced by site plan and architectural design considerations of Art 6.

2 – Structures shall be setback a minimum of 25-feet along any zoning district boundary line that abuts a residential zoning district. Lots of record existing as of September 9, 2015 that are split by enterprise and residential zones are exempt from this district boundary setback.

3 – Percentage of the lot depth.

The property does not abut a residential zoning district. **(Affirmative finding)**

(c) Permitted and Conditional Uses

Cafés are Conditional Uses in the E-LM. See Section 3.5.6 (a), above. **(Affirmative finding)**

(d) District Specific Regulations

1. *Convenience Stores* Not applicable.
2. *Drive Thrus* Not applicable.

Article 5: Citywide General Regulations

Part 5, Performance Standards

Sec. 5.5.2 Outdoor Lighting

The application notes bollard and wall pack lighting. The spec sheets provided for these light fixtures indicate compliance with the lighting standards of this section. **(Affirmative finding)**

Sec. 5.5.3 Stormwater and Erosion Control

The applicant submitted Erosion Prevention / Sediment Control and stormwater plans. These plans will be reviewed by the Stormwater Program Manager to ensure compliance with the wastewater, stormwater and pollution control regulations of Chapter 26, Burlington Code of Ordinances. Approval of these plans will be required prior to release of the zoning permit.

(Affirmative finding as conditioned)

Sec. 5.5.4, Tree Removal

(a) Review criteria for zoning permit requests for tree removal

(1) Grounds for approval

Tree removal involving six (6) or more trees, each of ten (10) inches or greater in caliper or the removal of ten (10) or more trees, each of which is three (3) inches or greater in caliper during any consecutive twelve (12) month period may be permitted for any of the following reasons:

D. As part of a development with an approved zoning permit.

The project site will be cleared of trees as part of the proposed development. **(Affirmative finding)**

Article 6: Development Review Standards

Part 1: Land Division Design Standards

Not applicable.

Part 2: Site Plan Design Standards

(a) Protection of Important Natural Features:

There are no natural features as identified in the Natural Resources Overlay map within the property. The site is currently undeveloped and will be cleared to make way for the proposed development. Tree removal will occur to make way for the proposed development.

(Affirmative finding)

(b) Topographical Alterations:

The applicant expects there to be 2-4 feet of site grading/excavation to make way for the development. The end result of the project, however, will see insignificant topographic alterations. **(Affirmative finding)**

(c) Protection of Important Public Views:

There are no protected public views from the parcel. Not applicable.

(d) Protection of Important Cultural Resources:

There are no cultural resources on the subject property. Not applicable.

(e) Supporting the Use of Renewable Energy Resources:

Clearing the lot will allow for natural sunlight. No other renewable resources are proposed nor required, but always encouraged. **(Affirmative finding)**

(f) Brownfield Sites:

The property is an identified brownfield site and is also located within the Pine Street Canal Superfund Site. The applicant has stated that he has been working with VT DEC to meet compliance with their requirements in order to develop the property. No information has been submitted regarding this, but ensuring compliance with DEC and EPA requirements will be a condition of this permit. **(Affirmative finding as conditioned)**

(g) Provide for nature's events:

An approved Erosion Prevention and Sediment Control plan, as well as a stormwater plan, will be required prior to the release of the zoning permit. Since the café use will operate between May and November, snow storage should not be a concern. The development will see a covered

seating area, and awnings over the customer ordering windows. **(Affirmative finding as conditioned)**

(h) Building Location and Orientation:

The container structures will locate along the periphery of the lot, with a two-story covered seating area. Also a second story container kitchen is also proposed at the property's rear. The general layout provides for an open central area, well seen from Pine Street. **(Affirmative finding)**

(i) Vehicular Access:

The development proposes direct access off Pine Street with two curb cuts to allow for an easy, one-way circulation pattern. See site plan. **(Affirmative finding)**

(j) Pedestrian Access:

Pedestrians will have direct access from the Pine Street sidewalk. Internal walkways and stairs will be provided for access to the café use. **(Affirmative finding)**

(k) Accessibility for the Handicapped:

The building inspector has jurisdiction over ADA requirements, and the proposal must comply with the Burlington Code of Ordinances. **(Affirmative finding as conditioned)**

(l) Parking and Circulation:

The development will have a one-way driveway (with two curb cuts on Pine Street), and three parking spaces for food pick-ups/deliveries. The width is adequate to allow for both the parking spaces and the thru lane. **(Affirmative finding)**

(m) Landscaping and Fences:

The site plan shows two planter boxes that will act as a barrier to the area behind the flanking trailers. Also included is ornamental grass in the Pine Street right-of-way greenspace. A retaining wall will be installed along the rear and south side property lines, and along a small portion of the north side property line. **(Affirmative finding)**

(n) Public Plazas and Open Space:

Not applicable.

(o) Outdoor Lighting:

The applicant has submitted lighting spec sheets, and the plans show where the fixtures will locate. Pendant lighting is shown above the seating area and restroom entrances, and bollard light posts will locate at the front of the covered seating area. **(Affirmative finding)**

(p) Integrate infrastructure into the design:

Electric and water utilities will be provided underground. No other utilities are proposed. The site plan identifies trash/recycling areas. Standard waste/recycling bins will locate in front of the side-flanking containers where customers will pass on their way off the site. These bins will need to be visually screened from the Pine Street right-of-way. Larger trash/recycling bins will

be placed in a nook, out of sight from the Pine Street right-of-way. **(Affirmative finding as conditioned)**

Part 3: Architectural Design Standards

Sec. 6.3.2 Review Standards

(a) Relate development to its environment:

1. Massing, Height and Scale:

The massing, height, and scale of the proposed development is less than that of nearby development. The use of shipping containers for the café is unique, but fitting for the ELM zoning district.

2. Roofs and Rooflines.

The container structures will have flat roofs, and the covered seating area will have a glazed roof.

3. Building Openings

The only openings on the containers appear to be for employee access, and customer ordering windows. **(Affirmative finding)**

(b) Protection of Important Architectural Resources:

Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Where the proposed development involves buildings listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8. The introduction of new buildings to a historic district listed on a state or national register of historic places shall make every effort to be compatible with nearby historic buildings.

Not applicable.

(c) Protection of Important Public Views:

Not applicable.

(d) Provide an active and inviting street edge:

In arrangement, design and appearance, the design provides an active and inviting street edge. The site layout is clearly discernable from the street front. **(Affirmative finding)**

(e) Quality of materials:

All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major streets, sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.

The shipping containers are made of steel, so they will be durable throughout all seasons. The glazed roofing and steel beam support structure (covered seating area) will also be durable for all seasons. **(Affirmative finding)**

(f) Reduce energy utilization:

All new construction is required to meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances. The proposal is for an outdoor café, where heating shouldn't be much of a concern. However, it is likely that portable propane heaters will be used on chillier days. The applicant notes that solar panels may be installed on the seating area's roof. While not a requirement, use of solar energy is always encouraged. **(Affirmative finding)**

(g) Make advertising features complementary to the site:

The plans show wall signs for each container café which appear to be compliant with the size and placement requirements/limitations for wall signs. Prior to the release of the zoning permit, the applicant will have to provide details for each sign, highlighting dimensions and the materials to be used. **(Affirmative finding as conditioned)**

(h) Integrate infrastructure into the building design:

Underground electric/water utilities (and assuming gas) will be used. No other infrastructure is noted. Venting will locate on the rear of the container kitchens. **(Affirmative finding as conditioned)**

(i) Make spaces secure and safe:

The proposed development must comply with all building and life safety code as defined by the building inspector and fire marshal. **(Affirmative finding as conditioned)**

Article 7: Signs

Sec.7.2.13: Wall Sign

Specifications

Height (max)	No higher than the floor level of the second story.
Area (max)	• 2 sf per linear foot of street frontage, or elevation where no street frontage is available, associated with a first floor tenant. • 10 sf for a second floor tenant with only a ground floor entryway. • In no case may the total area of all Wall Signs exceed the lesser of two hundred (200) square feet or fifteen (15%) per cent of the area of the façade or elevation to which they are attached. • A Wall Sign in any residential district shall not exceed 6-sf in area. • A Wall Sign in a RCO-R/G district shall not exceed 20-sf in area.
Depth/Projection (max)	12-in max. from the facade

Dimensions have not yet been provided, but the wall signs shown on each container kitchen above the ordering windows will easily comply with the size limitations set forth above. The applicant will have to provide specific dimensions for each sign proposed, and note their material. **(Affirmative finding as conditioned)**

Article 8: Parking

Sec. 8.1.8, Minimum Off-Street Parking Requirements

The property is located within the Multimodal Mixed Use Parking District, where parking requirements have been eliminated. The applicant proposes three short term parking spaces along the driveway for to-go food pick-ups. **(Affirmative finding)**

Sec. 8.2.4, Bicycle Parking Requirements

Bicycle parking for retail sales and service is required at the rate of 1 space per 12,000 sf of gross building area (long term) and 1 space per 2,000 sf of gross building area (short term). Based on a total building area of 1,280 sf, the development will require 1 long term space and 1 short term space. The plans indicate two bike racks with 10 short term bike spaces. The plans do not indicate 1 long term bike space, and will need to. **(Affirmative finding as conditioned)**

II. MINUTES

The meeting minutes will be distributed separately upon review and approval by the Development Review Board.

III. MOTION

Motion: Caitlin Halpert

I move that the Board approve the application, based on the findings in Section I above and subject to the following conditions:

1. **At least 7 days prior to the issuance of a certificate of occupancy**, the applicant shall pay to the City Treasurer's Office or Planning and Zoning office impact fees as calculated by staff based on the net new square footage of the proposed development. As submitted, impact fees are:

SF of Project **1,280**

Department	Retail	
	Rate	Fee
Traffic	0.839	1,073.92
Fire	0.227	290.56
Police	0.400	512.00
Parks	0.478	611.84
Library	0.000	0.00
Schools	0.000	0.00
Total	1.944	\$ 2,488.32

2. **Prior to the release of the zoning permit**, the associate Erosion Prevention and Sediment Control plan, as well as the stormwater plan, shall be approved by the Stormwater Program Manager.
3. **Prior to the release of the zoning permit**, the applicant shall submit specs on each proposed sign, including dimensions and materials.

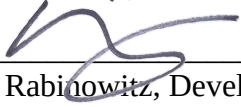
4. **Prior to the release of the zoning permit**, the plans shall be revised to include the following:
 - screening of the trash/recycling bins located in front of the container kitchens; and
 - one long-term bicycle parking space.
5. **Prior to the start of construction**, the applicant shall obtain all necessary approvals/permits from VT DEC and the EPA with regard to the brownfield site and the Pine Street Canal Superfund Site.
6. **Prior to the start of construction**, the applicant shall obtain curb cut approval from the Dept. of Public Works for the proposed curb cuts on Pine Street.
7. All utilities serving the site shall be underground.
8. Construction hours shall be limited to Monday-Friday 7:30 am to 5:30 pm, Saturdays limited to interior work unless specific allowances are granted by the DRB, and no construction permitted on Sundays
9. A state wastewater permit may be required. It is the applicant's responsibility to inquire with VT DEC as to whether such permit is necessary.
10. Any future enlargement or alteration shall be reviewed under the zoning regulations in effect at that time.
11. The Applicant/Property Owner is responsible for obtaining all necessary Zoning Permits and Building Permits through the Department of Public Works as well as other permit(s) as may be required, and shall meet all energy efficiency codes of the city and state as required.
12. Standard permit conditions 1-15.

Seconded: Brooks McArthur

Vote: 4-2-0, motion carried

Dated at Burlington, Vermont, this 29th day of June 2022

Respectfully Submitted,

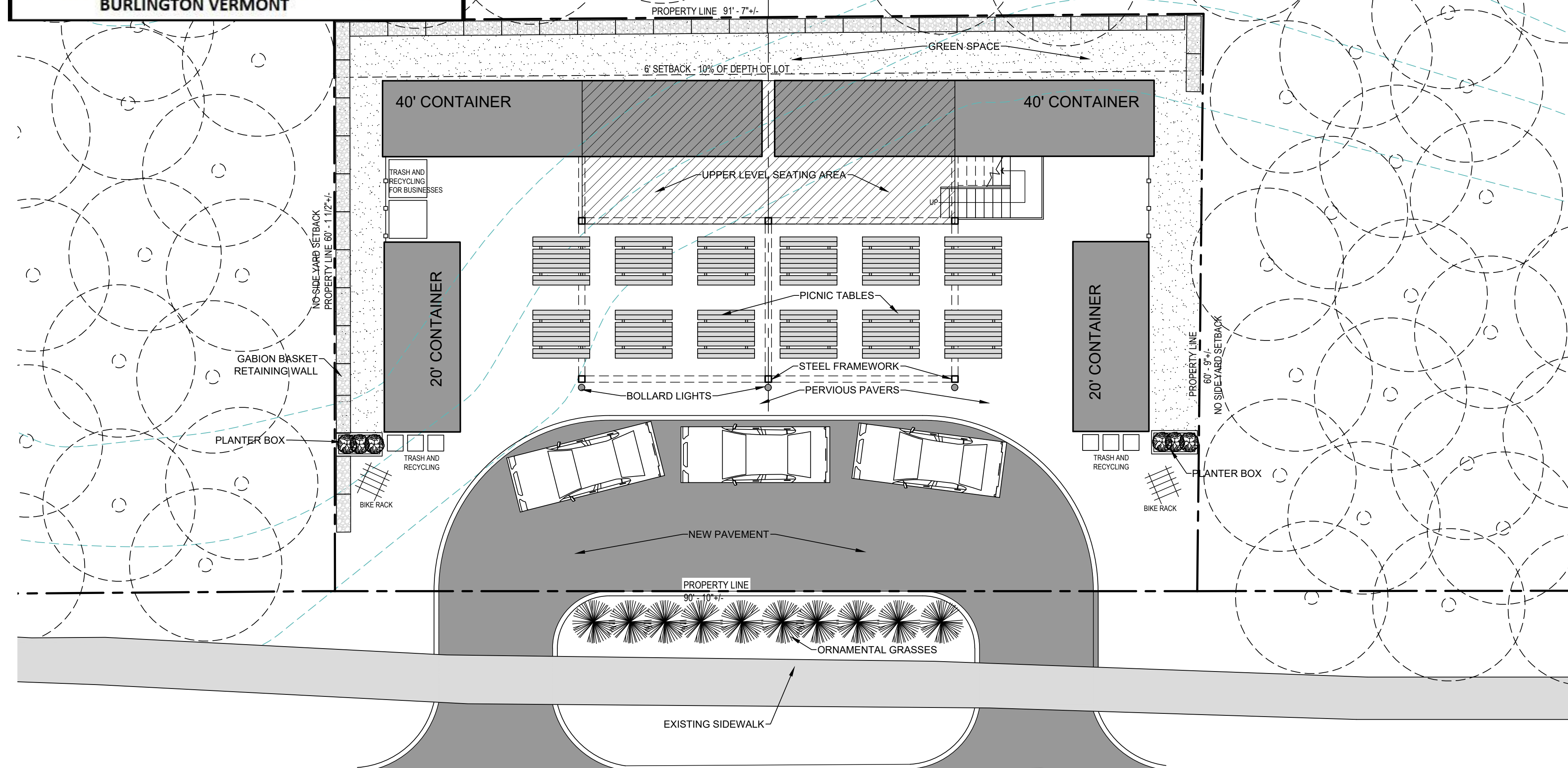


Brad Rabinowitz, Development Review Board Chair

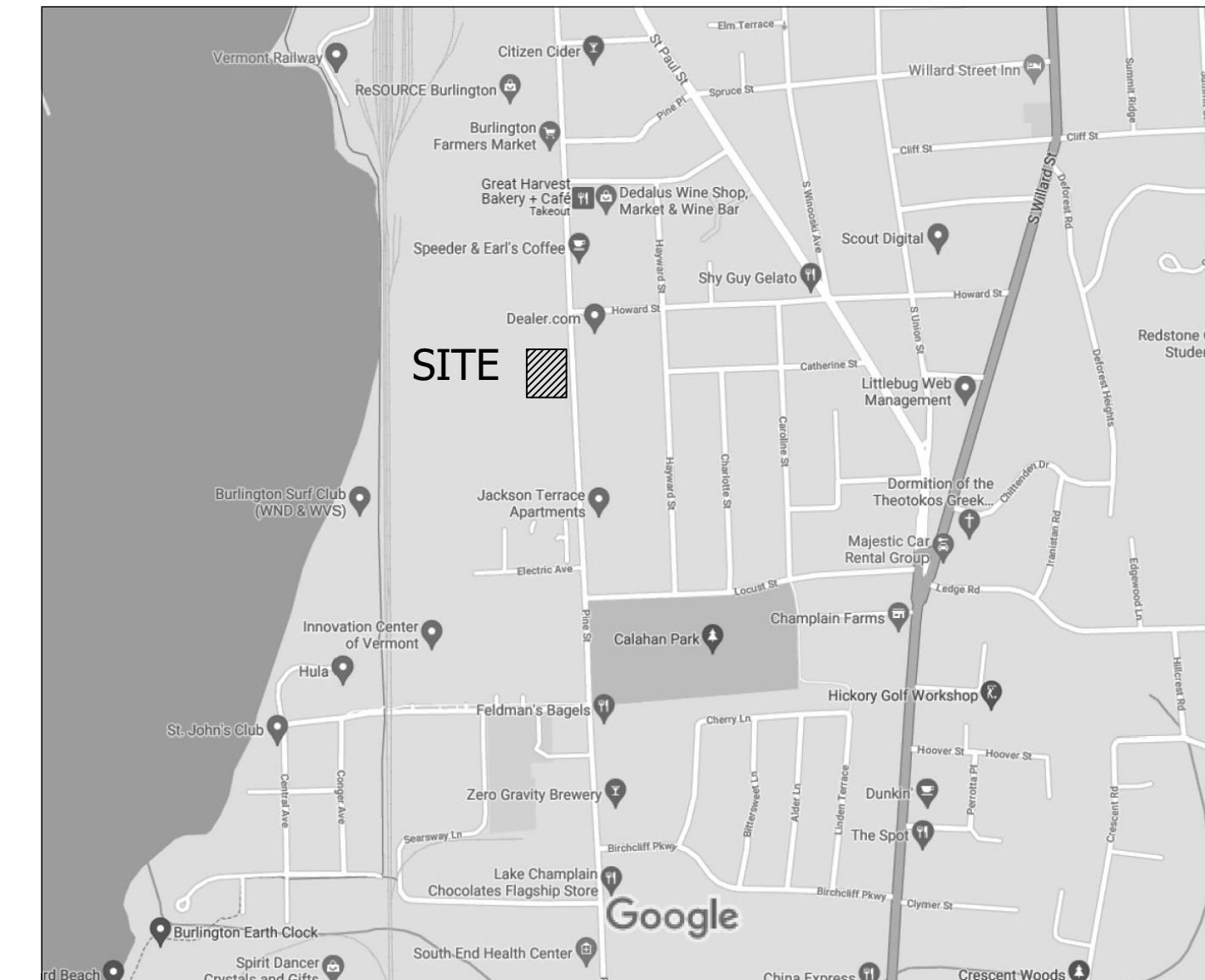
Please note that an interested person may appeal a decision of the Development Review Board to the Vermont Superior Court Environmental Division. (Zoning Ordinance Article 17, Section 17.1.7, Appeals of Development Review Board Decisions: An interested person may appeal a decision of the Development Review Board to the Vermont Superior Court Environmental Division. The appeal shall be taken in such a manner as the supreme court may by rule provide for appeals from state agencies governed by Sections 801 through 816 of Title 3). The Court rules may require that such an appeal be commenced within Thirty (30) days of the Board's decision.

Approved
June 29, 2022
ZP-21-800
R Morrison

SIGNED William Paul DATE _____
ZONING PERMIT # _____
REVIEWED BY _____
DEPARTMENT OF PERMITTING & INSPECTIONS
BURLINGTON VERMONT

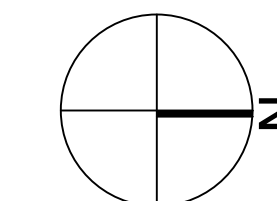


PINE STREET



ZONING INFORMATION		
SPACE	EXISTING AREAS	PROPOSED AREAS
PROPERTY	5,519 SQ. FT.	5,519 SQ. FT.
STRUCTURES	0 SQ. FT.	960 SQ. FT.
PERVIOUS PAVING DRIVEWAY	0 SQ. FT. 0 SQ. FT.	2,272 SQ. FT. 1,095 SQ. FT.
GREEN SPACE	5,519 SQ. FT.	1164 SQ. FT.
TOTAL LOT COVERAGE WITH PERVIOUS PAVERS	0%	78.4%
TOTAL LOT COVERAGE WITHOUT PERVIOUS PAVERS	0%	37.2%

SCHEMATIC SITE PLAN



Project No:	2021-207
Date:	11/09/2021
Scale :	AS-NOTED
Drawn by :	WJR

L-1

501 PINE STREET

BURLINGTON, VERMONT

JRMA DESIGN STUDIO

www,jrmadesignstudio.com

SCHEMATIC DESIGN STUDY

REVISED 02 16 2022



Approved
June 29, 2022
ZP-21-800
R Morrison

-NOTE-
ANY MODIFICATION OR DEVIATIONS FROM THESE PLANS
REQUIRE ZONING APPROVAL PRIOR TO CONSTRUCTION.
ALL ERRORS IN DIMENSIONS, PLANS, OR DETAILING ARE
FULLY THE RESPONSIBILITY OF THE APPLICANT/OWNER.
FINAL APPROVAL
SIGNED *Walter A. [Signature]* DATE _____
ZONING PERMIT # _____
REVIEWED BY _____
DEPARTMENT OF PERMITTING & INSPECTIONS
BURLINGTON VERMONT

OVERVIEW

501 PINE STREET FOOD COURT
SCHEMATIC STUDY | 02 16 2022

JRMA DESIGN STUDIO | ARCHITECTS – PLANNERS - INTERIORS



LOOKING NORTHWEST

Approved
June 29, 2022
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FINAL APPROVAL

SIGNED William R. [Signature] DATE _____

ZONING PERMIT # _____

REVIEWED BY _____

DEPARTMENT OF PERMITTING & INSPECTIONS

BURLINGTON VERMONT



LOOKING SOUTHWEST



LOOKING NORTHWEST

Approved
June 29, 2022
ZP-21-800
R Morrison

-NOTE-
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FINAL APPROVAL
SIGNED William 2nd DATE _____
ZONING PERMIT # _____
REVIEWED BY _____
DEPARTMENT OF PERMITTING & INSPECTIONS
BURLINGTON VERMONT



LOOKING WEST

Department of Permitting and Inspections

Zoning Division

645 Pine Street

Burlington, VT 05401

<https://www.burlingtonvt.gov/DPI/Zoning-Permits>

Telephone: (802) 865-7188

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William Ward, Director
Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Garret King, Associate Planner
Steven Cormier, Zoning Compliance Officer
Joseph Cava, Planning Technician
Ted Boylan, Permit Administrator



MEMORANDUM

To: Development Review Board

From: Mary O'Neil, AICP, Principal Planner

Date: August 20, 2024

RE: 228 North Winooski Avenue; ZP-24-262

Note: These are staff comments only. Decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.

File: ZP-24-262

Location: 228 North Winooski Avenue

Zone: NMU **Ward:** 2

Parking District: MMMU

Date application accepted: June 20, 2024

Applicant/ Owner: Eli Maroscher (Duncan Wisniewski Architects)/ Champlain Housing Trust

Request: Proposed construction of two storey addition to *Feeding Champlain Valley*.



Background:

- **Zoning Permit 23-50;** fit-up for Community Resource Center, including new exterior door and compressors. March 2023.
- **Zoning Permit ZP20-0817CA / 20-186 OG;** install replacement siding. April 2020.

The programs and services of the City of Burlington are accessible to people with disabilities. For accessibility information call 865-7188 (for TTY users 865-7142).

- **Non-Applicability of Zoning Permit Requirements 20-0060NA**; repair of walkway, add accessible ramps (temporary up to 90 days.) July 2019.
- **Zoning Permit 18-0541CA / 17-823OG**; two story addition to the Chittenden Emergency Food Shelf. February 2018. (Application has expired.)
- **Zoning Permit 16-0489FC**; 8' fence in rear corner of parking lot totaling 66 linear feet with double gate opening in front for dumpster access. October 2015.
- **Non-Applicability of Zoning Permit Requirements 12-0012NA**; directional signs marking entrances. July 2011.
- **Non-applicability of Zoning Permit Requirements 13-0624NA**; interior renovation. December 2012.
- **Zoning Permit 11-0099SN**; install new freestanding sign. No illumination. August 2010.
- **Zoning Permit 00-238**; installation of wall mounted air conditioning unit with anti-theft metal guard in the west side of the food shelf. November 1999.
- **Zoning Permit 98-077**; installation of two handrails in front of the two entries to the food shelf. August 1997.
- **Zoning Permit 98-061**; installation/construction of a CCTA bus shelter on the existing food shelf property. August 1997.
- **Zoning Permit 95-306**; installation of two nonilluminated parallel signs. February 1995.
- **Zoning Permit 93-336**; demolish portion of existing structure, formerly Gove Florist. Rebuilding a single story 5300 sq. ft. structure for the Food shelf. Parking waiver. March 1993.
- **Zoning Permit (n.n.)**; erect a 24' x 50' addition to the rear of the existing garage and remodel the front of the building. August 1972.
- **Zoning Permit 81-001**; erect two 4' x 8' signs flush against building. June 1980.
- **Zoning Permit 78-258**; occupy as automotive repair serve. No exterior changes, no additional coverage. December 1978.
- **Zoning Permit (n.n.)**; convert the front of the former Mayo Sales area at 228 North Winooski Avenue into discount beverage store and pizza and sub shoppe. Erect a chimney for venting oven. May 1978.

Overview: Champlain Housing Trust is re-applying for a two story addition to the building formerly known as the Chittenden Emergency Food Shelf (now *Feeding Chittenden*). A 2018 zoning permit for a similar project has expired without exercise.

The **Design Advisory Board** reviewed the application at their August 13, 2024 meeting and voted unanimously to recommend approval of the application, with the following comments:

- This board supports partially obscured first floor windows to protect identity of those receiving services, and
- A recommendation to add visual interest to the north face.

Recommended motion: Certificate of Appropriateness approval, per the following Findings and Conditions:

I. Findings

Article 3: Applications, Permits and Project Reviews

Part 3: Impact Fees

Section 3.3.2 Applicability

Any new development or additions to existing buildings which result in new dwelling units or in new nonresidential buildings square footage are subject to impact fees.

Based on the gross new area as provided by the architect, the following Impact Fees are assessed:

SF of Project 2113

	<u>Offices & Other</u>	
Department	Rate	Fee
Traffic	0.795	1,679.63
Fire	0.234	494.52
Police	0.412	871.40
Parks	0.493	1,041.32
Library	0.000	0.00
Schools	0.000	0.00
Total	1.934	\$ 4,086.87

Section 3.3.8 Time and Place of Payment

(b) Existing Buildings: Impact fees must be paid prior to issuance of a zoning permit, or if a building permit is required, within thirty (30) days of issuance of the building permit.

Affirmative finding as conditioned.

Article 4: Zoning Maps and Districts

Sec. 4.4.2 Neighborhood Mixed Use Districts

(a) Purpose:

The Neighborhood Mixed Use districts promote development that combines non-residential and residential uses on a single site. These zones allow an increased intensity of development than would typically be found in the surrounding residential areas, and provides neighborhood oriented goods and services and employment opportunities within walking and biking distance. This development type will support transit use, provide a buffer between busy streets and residential neighborhoods, and provide new commercial and residential opportunities in the City. The emphasis of nonresidential uses should primarily be oriented to serving the needs of the surrounding residential neighborhoods and other neighborhood commercial uses.

Development is intended to be pedestrian-oriented with buildings oriented to the sidewalk, especially at corners. Parking is intended to be hidden from the street, since its appearance is out of character with the surrounding residential development and the desired orientation of the buildings.

2. *The **Neighborhood Mixed Use (NMU)** district is intended to preserve and enhance historically commercial areas while reinforcing the compact scale and development patterns within the city's older neighborhoods. Uses are intended to provide neighborhood oriented goods and services and employment opportunities within walking or biking distance of residential neighborhoods*

Feeding Chittenden has existed and been serving the local community since 1993. It is well established within the neighborhood, providing a food pantry and distribution, a meal center, and associated office uses. No new uses are proposed within this application; but an expansion of existing activities. **Affirmative finding.**

(b) Dimensional Standards and Density:

The density and intensity of development, dimensions of building lots, the heights of buildings and their setbacks from property boundary lines, and the limits on lot coverage shall be governed by the following standards:

Table 4.4.2 -1 Dimensional Standards and Density

Districts	Max. Intensity (floor area ratio ¹)	Max. Lot Coverage	Minimum Building Setbacks (feet)			Building Height (feet)
			Front ³	Side	Rear	
NMU	2.0 FAR	80%	0 ⁵	0 ²	0 ²	Min: 22', 2 stories Max: 35
228 North Winooski Avenue	.4106	79.6%	1.6' from property line;	13.07 southwest; 2.95' at northeast	No change	21' to top of roof deck.

			13.5' from reconstructed curb. See Footnote 3.	(at addition)		
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1. Floor area ratio is described in Sec. 5.2.7. Measurement of and exceptions to height limits are found in Sec 5.2.6. Bonuses for additional FAR and height where available are described in section (d)3 below, and additional height, FAR and lot coverage is afforded by-right for inclusionary housing projects under Sec. 9.1.12. Actual maximum build out potential may be reduced by site plan and architectural design considerations of Art 6.
2. Structures shall be setback a minimum of 15-feet along any zoning district boundary line that abuts a residential zoning district. Lots of record existing as of September 9, 2015 that are split by neighborhood mixed use and residential zones are exempt from this district boundary setback.
3. Structures shall be setback a minimum of 12-feet from the curb on a public street.
4. Exceptions to maximum lot coverage are provided in (d)2.
5. Notwithstanding footnote 4, the NMU district at the intersection of Pine St. and Flynn Avenue shall have a minimum front yard setback of 10 feet.
6. Side and rear yard setbacks are applicable only to the periphery of the NAC-CR district and not to individual parcels within the district.
7. Front yard setbacks for buildings fronting on North Avenue shall be 20' min and 30' max.

Affirmative finding.

(c) Permitted and Conditional Uses:

The two primary uses recognized in previous permitting are Grocery Store – Small ≤10,000 sq. ft and Community Center, both of which are permitted uses in the NMU zoning district.

Affirmative finding.

(d) District Specific Regulations:

1. Ground Floor Residential Uses Restricted

This pertains to NAC, not NMU. Not applicable.

2. Exception to Maximum Lot Coverage in NAC District

Not applicable.

3. Development Bonuses/Additional Allowances

No bonuses are requested. Not applicable.

Article 5: Citywide General Regulations

Part 2: Dimensional Requirements

Section 5.2.2 Required Frontage or Access

Access is reorganized from existing conditions; vehicles will now enter from North Union Street. Pedestrian access is on both North Union and North Winooski Avenue. **Affirmative finding.**

Section 5.2.3 Lot Coverage Requirements

See Table 4.2.1-1, above.

Section 5.2.4 Buildable Area Calculation & Steep Slopes Overlay

Buildable area is not applicable in NMU. The site is not within the Steep Slopes Overlay.

Affirmative finding.

Section 5.2.5 Setbacks

See Table 4.2.1-1, above.

Section 5.2.6 Building Height Limits

See Table 4.2.1-1, above.

Section 5.2.7 Density and Intensity of Development Calculations

See Table 4.2.1-1, above.

Part 3: Non Conformities

Not applicable.

Sec. 5.4.8 Historic Buildings and Sites

Not applicable.

Article 6: Development Review Standards

Part 1: Land Division Design Standards

Not applicable.

Part 2: Site Plan Design Standards

Sec. 6.2.2 Review Standards

(a)Protection of important natural features:

A small tree is proposed to be removed at the North Winooski Avenue frontage; an ash along North Union Street and a spruce near the south property line. The application is accompanied with a landscaping plan. **Affirmative finding.**

(b) Topographical Alterations:

The removal of pavement at the rear/east end of the lot will result in the addition of new topsoil, seed and mulch. Otherwise, grades will be maintained. **Affirmative finding.**

(c)Protection of Important Public Views:

There are no important public views from or through this site. Not applicable.

(d) Protection of Important Cultural Resources:

Not applicable.

(e) Supporting the Use of Renewable Energy Resources:

Where feasible, the site plan should be so designed as to take advantage of the site's inherent potential to utilize sources of renewable energy including direct sunlight, wind, or running water. The site plan should also incorporate site planning and landscaping decisions intended to minimize energy demand such as siting buildings to maximize solar access or the use of deciduous and coniferous trees to create shade and windbreak.

Buildings should, where appropriate within the context of the neighborhood development pattern, maximize their solar exposure by being oriented to maximize natural light and heat gain during winter months, and to minimize casting shadows into ground floor living space of a building on an adjacent property.

No part of this application will preclude the use of wind, solar, geothermal or other renewable energy resource. Building additions are not required to meet Burlington's new Thermal Energy Heating Ordinance.

There are generous windows on the west and upper floor of the new south elevation to employ direct sunlight. **Affirmative finding.**

(f) Brownfield Sites:

Where a proposed development involves a known or suspected brownfield, the site plan shall indicate areas of known or suspected contamination, and the applicant shall identify completed or planned remediation necessary to support the intended use(s).

228 North Winooski Avenue is not listed on Vermont Agency of Natural Resources Atlas under the Brownfield Navigator, nor is it in the BRELLE program; however further investigation with DEC confirms there are known contaminants at the site (e.g., tetrachloroethylene (PCE), PAHs, and lead. Site #91-1054) which may be from historical site uses, historical uses of adjacent/off-site properties, or both. Civil Plan C-1 defines three existing groundwater monitoring wells on the north/east property line; one within the footprint area of the new addition. The existing monitoring wells were installed many years ago, and sampled several times as part of the Phase I Environmental Site Assessment in 2023. Clare Santos, PE from KAS Environmental shared that groundwater monitoring will continue at the site and is planned for after the proposed site improvements.

An underground storage tank was discovered and removed in 1994. There is low level PCE in groundwater which may not be connected to this property, the source of this PCE is undetermined as it is found in many locations in the North End.

Richard Spiese of DEC shared in an email (8.5.2024) that soil sample results show soils to be a solid waste and needing disposal. A Soils Management Plan (SMP) was prepared in 2018 to ensure that risks related to contaminants in soils and soil gas are mitigated as part of site improvements. Although details of the proposed building addition have been modified, the approach to soil management and vapor building protection remain the same. Excess soils requiring off-site disposal will be managed as regulated waste. For the building protection, there is an existing active depressurization system. The proposed addition will also be protected and

will tie into the existing system. (SSDS plan was provided.) **Affirmative finding as conditioned.**

(g) Provide for nature's events:

Special attention shall be accorded to stormwater runoff so that neighboring properties and/or the public stormwater drainage system are not adversely affected. All development and site disturbance shall follow applicable city and state erosion and stormwater management guidelines in accordance with the requirements of Art 5, Sec 5.5.3.

Plan C.-2 defines the Erosion Prevention and Sediment Control Plan. Civil plans further articulate the installation of a new 2,000 gallon precast concrete stormwater flow attenuation structure at the south end of the parking lot. Both EPSC and Stormwater Plans require review and approval of the Stormwater engineer.

Design features which address the effects of rain, snow, and ice at building entrances, and to provisions for snow and ice removal or storage from circulation areas shall also be incorporated.

Building entries are sheltered. Snow storage has been stored in a parking space until it is trucked off-site. **Affirmative finding as conditioned.**

(h) Building Location and Orientation:

The introduction of new buildings and additions shall be consistent with the intent of the district. New buildings and additions should be aligned with the front façade of neighboring buildings to reinforce the existing “street-edge,” or where necessary, located in such a way that complements existing natural features and landscapes. Buildings placed in mixed-use areas where high volumes of pedestrian traffic are desired should seek to provide sufficient space (optimally 12-15 feet) between the curblin and the building face to facilitate the flow of pedestrian traffic. In such areas, architectural recesses and articulations at the street-level are particularly important, and can be used as an alternative to a complete building setback in order to maintain the existing street wall.

As the addition is on the North Winooski Avenue streetfront, its presence in relation to the public right-of-way is critical. The building is aligned with building facades on that streetfront, reinforcing the street edge. There are public sidewalks on both the North Winooski and North Union Streets. Although the addition is proposed only about 1’ inside the North Winooski Street property line, it is a little less than 14’ from that street edge with ample space for pedestrian foot traffic.

The North Union elevation is further from the property line, however a reorganized traffic circulation path and parking are offered there.

Principal buildings shall have their main entrance facing and clearly identifiable from the public street. The development of corner lots shall be subject to review by the city

engineer regarding the adequacy of sight distances along the approaches to the intersection. To the extent practicable, development of corner lots in non-residential areas should try to place the building mass near the intersection and parallel to the street to help anchor the corner and take advantage of the high visibility location.

This project was reviewed by the Technical Review Committee April 11, 2024. The Department of Public Works noted that moving the vehicular entrance to North Union Street might tempt vehicles to enter the wrong way (onto North Union) where the current layout at the street intersection allowed traffic to enter from either street. DPW suggested that vehicular access be limited to North Union Street only, with discouragement for folks driving the wrong way on North Union to access the driveway. The applicants plan a robust effort to deter any wrong-way vehicular traffic. **Affirmative finding as conditioned.**

(i) Vehicular Access:

Curb cuts shall be arranged and limited in number to reduce congestion and improve traffic safety. A secondary access point from side roads is encouraged where possible to improve traffic flow and safety along major streets. The width and radius of curb cuts should be kept to the minimum width necessary, and sight triangles and sufficient turnarounds for vehicles shall be provided to reduce the potential for accidents at points of egress.

Driveways for commercial properties may require a traffic study to identify the impacts of the movement of traffic to and from the property, and design for safe access. Access for service and loading areas should be located behind buildings or otherwise screened from streets or public ways with landscaping or other barriers. Whether commercial or residential, shared driveways are encouraged, where possible and appropriate.

An existing curb cut at the immediate corner of North Winooski and North Union Street will be removed and curbed. (See Plan X-1) The general entrance has been relocated to the North Union Street access, to centralize vehicular traffic, parking and the delivery area. DPW recommends limiting vehicular access from North Union Street only, and discourage any vehicles from going the wrong way from the intersection. **Affirmative finding as conditioned.**

(j) Pedestrian Access:

Pedestrians shall be provided one or more direct and unobstructed paths between a public sidewalk and the primary building entrance. Well defined pedestrian routes shall be provided through parking areas to primary building access points and be designed to provide a physical separation between vehicles and pedestrians in a manner that minimizes conflicts and improves safety. Where sidewalks and driveways meet, the sidewalk shall be clearly marked by differentiated ground materials and/or pavement markings.

A new concrete walk is proposed on both North Winooski Avenue and North Union Street, including detectable warning plat at the crosswalk and new sidewalk through the driveway area. A concrete walkway will also connect from the parking area to the existing concrete sidewalk

along the building face. Bicycle parking is immediately available to the walkway and entrance. (Plan C-1.) **Affirmative finding.**

(k) Accessibility for the Handicapped:

Special attention shall be given to the location and integration of accessible routes, parking spaces, and ramps for the disabled. Special attention shall also be given to identifying accessible access points between buildings and parking areas, public streets and sidewalks. The federal Americans with Disabilities Act Accessibility Guidelines (ADAAG) shall be used as a guide in determining the adequacy of the proposed development in addressing the needs of the disabled.

Two accessible Van parking spaces are identified within the newly arranged parking area. The Building official has the jurisdiction for any other ADA requirements. **Affirmative finding.**

(l) Parking and Circulation:

To the extent possible, parking should be placed at the side or rear of the lot and screened from view from surrounding properties and adjacent public rights of ways. Any off-street parking occupying street level frontage in a Downtown Mixed Use District shall be setback from the edge of the front property line in order to provide space for active pedestrian-oriented uses. Where street-level parking is provided within an existing structure, the cars shall be screened from the sidewalk and the area shall be activated with landscaping, public art, or other design amenities. Parking areas of more than 20 spaces should be broken into smaller areas separated by landscaping.

Parking shall be laid out to provide ease in maneuvering of vehicles and so that vehicles do not have to back out onto city streets. Dimensions of spaces shall at a minimum meet the requirements as provided in Article 8. The perimeter of all parking areas shall be designed with anchored curb stops, landscaping, or other such physical barriers to prevent vehicles from encroaching into adjacent green spaces.

Parking spaces are 9 x 18, compliant with Article 8. Parking areas are lined with curb stops.

Surface parking and maneuvering areas should be shaded in an effort to reduce their effect on the local microclimate, air quality, and stormwater runoff with an objective of shading at least 30% of the parking lot. Shading should be distributed throughout the parking area to the greatest extent practical, including within the interior depending on the configuration. New or substantially improved parking areas with 15 or more parking spaces shall include a minimum of 1 shade tree per 5 parking spaces with a minimum caliper size of 2.5"-3" at planting. Up to a 30% waiver of the tree planting requirement may be granted by the development review board if it is found that the standard requirement would prove impractical given physical site constraints and required compliance with minimum parking requirements. All new shade trees shall be: of a species appropriate for such planting environments, expected to provide a mature canopy of no less than 25-feet in diameter, and selected from an approved list maintained by the city arborist. Existing trees retained within 25-feet of the perimeter of the parking area (including public street trees), and with a minimum caliper size greater than 3-inches, may be counted towards the new tree planting requirement.

Two crab apple trees are proposed north of the parking area. Fourteen (14) parking spaces are proposed; short of the requirement for additional tree planting. The parking area is tightly constrained, and must double as access for regular deliveries while assuring segregation from pedestrian traffic. See Landscaping Plan L1.1, and Civil Plan C-1.

All parking areas shall provide a physical separation between moving and parked vehicles and pedestrians in a manner that minimizes conflicts and gives pedestrians a safe and unobstructed route to building entrance(s) or a public sidewalk.

See Pedestrian Access, above.

Where bicycle parking is provided, access shall be provided along vehicular driveways or separate paths, with clearly marked signs indicating the location of parking areas. Where bicycle parking is located proximate to a building entrance, all shared walkways shall be of sufficient width to separate bicycles and pedestrians, and be clearly marked to avoid conflicts. All bicycle parking areas shall link directly to a pedestrian route to a building entrance. All bicycle parking shall be in conformance with applicable design & construction details as provided by the dept. of public works.

Bicycle parking is immediate to building entrances and a pedestrian path. Required Short term spaces are 1/5,000 sf. The net new habitable sq. ft. is only 1968, not large enough to trigger more bike parking. A bike rack is proposed, however, along the pedestrian route to the entries. The bike rack shall be consistent with Association of Pedestrian and Bicycle Professionals' "Bicycle Parking Guidelines." **Affirmative finding as conditioned.**

(m) Landscaping, Fences and Retaining Walls:

Landscaping shall be used to beautify the development site and to provide specific functions and benefits to the uses and buildings on the site. These include but are not limited to stormwater retention and erosion control, winter windbreaks and summer shade, recreational and habitat corridors, buffers and screening of parking areas, and creating privacy for and from adjacent property.

Existing trees shall be retained and incorporated into a landscape plan to the extent possible, and existing trees to be retained shall be protected during construction in accordance with specifications provided by the city arborist. Contiguous green space, both within the site and with adjacent properties, should be provided on a site whenever possible and be designed to provide wildlife travel corridors and habitat preservation, as well as enabling recreational access. If open space is intended to be publicly accessible, it shall be designed to maximize accessibility for all individuals including the disabled, encourage social interaction, and facilitate ease of maintenance. Along the street edge, landscaping shall be used to provide a visual buffer into parking areas from the public street and reinforce the streetscape.

The selection of plant materials and planting sites should create a sustainable landscape, and consideration shall be given to factors such as hardiness, salt tolerance, disease resistance, invasiveness, root and canopy spread, underground and overhead utilities, soil conditions, and microclimates. The use of native plant materials is encouraged, and

the use of plants considered invasive by VT Agency of Agriculture shall be prohibited. For more information on sustainable landscapes, applicants are encouraged to consult Planting Sustainable Landscapes: A Guide for Plan Reviewers prepared for the Vermont Department of Forests Parks and Recreation by the Vermont Chapter of the American Society of Landscape Architects.

A robust landscaping plan has been provided (L1.1) to provide a mix of shrubs and perennials (as well as new planters) to enhance the site.

Fences may be placed within the required setback along a property line, but shall be setback sufficiently to provide for the maintenance of both sides of the fence without entering onto the adjacent property and shall present a finished side to the adjoining property and public street. Fences placed within a clear sight triangle shall adhere to the standards of Sec. 5.2.6 (c). Styles, materials, and dimensions of the proposed fence shall be compatible with the context of the neighborhood and the use of the property.

An existing fence, screening the trash and recycling facilities as well as the walk-in coolers, will be relocated. See Plan C-1. **Affirmative finding.**

(n) Public Plazas and Open Space:

Where public open space is provided as an amenity to the site plan, it should be sited on the parcel to maximize solar exposure, with landscaping and hardscape (including fountains, sitting walls, public art, and street furniture) to encourage its use by the public in all seasons. Public plazas should be visually and physically accessible from public rights-of-ways and building entrances where appropriate and shall be designed to maximize accessibility for all individuals, including the disabled and encourage social interaction.

The reorganized site separates pedestrians and vehicular traffic, while enhancing the entranceways and paths to the building. While no formal plaza is provided, the covered walkway and landscaped entry paths provide an enhanced experience for those visiting the facility.

Public space should be coordinated with the surrounding buildings without compromising safety and visibility. Public spaces should be surrounded by active uses that generate pedestrian traffic, and connect the space to major activity centers, streets, or corridors.

Public access is provided via North Winooski Avenue and North Union Street.

New structures and additions to existing structures shall be shaped to reduce shadows on public plazas and other publicly accessible spaces. In determining the impact of shadows, the following factors shall be taken into account: the mass of area shaded, the duration of shading, and the importance of sunlight to the utility of the type of open space being shadowed. Proposed development shall be considered for solar impact based the sun angle during the Vernal and Autumnal equinox.

The proposed 2 storey addition is a modest change to existing conditions, and is not anticipated to create any shadow effects on the available public open space. **Affirmative finding.**

(o) Outdoor Lighting:

Where exterior lighting is proposed the applicant shall meet the lighting performance standards as per Sec 5.5.2.

The lighting plan includes a combination of bollards, recessed downlights, step lights, wall sconces and full cut-off LED lights. Pole height is limited to a maximum of 25'.

Parking lot illumination is compliant to 5.5.2 (max illumination 4 fc.). Walkway lighting is limited to 2 fc, but there are elevated readings under the covered entry (up to 7 fc.) Section 5.5.2 (f) 9. B states:

If a first floor façade is illuminated by lights mounted under a canopy sheltering a walkway, the maximum horizontal illumination of the walkways shall not exceed 3.0 footcandles at grade level. Light levels will require adjustment there. **Affirmative finding as conditioned.**

(p) Integrate infrastructure into the design:

Exterior storage areas, machinery and equipment installations, service and loading areas, utility meters and structures, mailboxes, and similar accessory structures shall utilize setbacks, plantings, enclosures and other mitigation or screening methods to minimize their auditory and visual impact on the public street and neighboring properties to the extent practicable.

The existing walk-in coolers and trash and recycling enclosures will remain as existing, with a relocated fence screening their visibility. The current HVAC will remain as existing: The larger units are hidden from view south of the warehouse. Wall units are existing on the east and north elevations. Additional units are proposed to be hung on the back of the new addition, east elevation. See Plan P5. for location.

Utility and service enclosures and screening shall be coordinated with the design of the principal building, and should be grouped in a service court away from public view. On-site utilities shall be place underground whenever practicable. Trash and recycling bins and dumpsters shall be located, within preferably, or behind buildings, enclosed on all four (4) sides to prevent blowing trash, and screened from public view.

Existing trash and recycling will be screened behind a relocated wood fence.

Any development involving the installation of machinery or equipment which emits heat, vapor, fumes, vibration, or noise shall minimize, insofar as practicable, any adverse impact on neighboring properties and the environment pursuant to the requirements of Article 5, Part 5 Performance Standards.

HVAC equipment is existing and located behind the warehouse and on the north elevation. **Affirmative finding.**

PART 3: ARCHITECTURAL DESIGN STANDARDS

Sec. 6.3.2 Review Standards

(a) Relate development to its environment:

Proposed buildings and additions shall be appropriately scaled and proportioned for their function and with respect to the purpose of the zoning district. They should integrate harmoniously into the topography, and to the use, scale, and architectural details of existing buildings in the vicinity; however, such consideration shall not require building height to be more limited than otherwise allowed within an applicable zoning district or overlay zone per Article 4.

The following shall be considered:

1. Massing, Height and Scale:

While architectural styles or materials may vary within a streetscape, proposed development should maintain an overall scale similar to that of surrounding buildings, or provide a sensitive transition, where appropriate, to development of a dissimilar scale.

Where the zoning encourages greater intensity and larger scale buildings in high density residential and non-residential zoning districts, buildings that are over 3-stories should provide a transition by employing design elements that reduce the apparent building mass from the street level. Taller buildings and elements are most appropriate where they provide a focal point of a terminal view, anchor a street corner, frame view corridors, or relate to larger scaled structures.



The proposed addition is not over 3 stories in height. While there is an existing elevated first floor clerestory roof extending to a “lantern”, the proposed 2nd story addition attractively introduces an anchor on the intersection of North Winooski, North Union, and Decatur Street. There are several multi-story buildings in the immediate area: 237 North Winooski (3 stories); and multiple residential buildings of 2-2 ½ stories.



Buildings should maintain consistent massing and perceived building height at the street level, regardless of the overall bulk or height of the building. Buildings should maintain a relationship to the human scale through the use of architectural elements, variations of proportions and materials, and surface articulations. Large expanses of undifferentiated building wall along the public street or sidewalk shall be avoided. The apparent mass and scale of buildings shall be broken into smaller parts by articulating separate volumes reflecting existing patterns in the streetscape, and should be proportioned to appear more vertical than horizontal in order to avoid monotonous repetition. (See also (d) Provide an active and inviting street edge below.)

The new addition is artfully arranged to ease into the new building massing, yet continue the comfortable first floor familiar entries and welcoming pedestrian paths. **Affirmative finding.**

2. Roofs and Rooflines.

New buildings should incorporate predominant roof forms and pitches within the existing neighborhood and appropriate to the context. Large expanses of undifferentiated roof forms shall be avoided. This can be achieved by incorporating dormers or some variation in the roof form to lessen the impact of the massing against the sky. While flat roofs can be a reasonable architectural solution, pitched roof forms and architectural elements that enhance the city's skyline are strongly encouraged. Roof eaves, parapets, and cornices should be articulated as an architectural detail. Roof-top mechanicals shall be screened from view from the public street, and should be incorporated into and hidden within the roof structure whenever possible.

A flat roof is proposed; common within the streetscape and effective as a building addition. Rooftop mechanicals are not defined within submission materials, and should be identified if included.

Solar panels, light colored ballast or roof membranes, split roof clerestories, planted or "green" roof technologies (with a clearly articulated maintenance plan) and "gray water" collection are encouraged. Active rooftop uses are also encouraged to add to the visual complexity and activity of the city's skyline, and afford public access to otherwise unseen views of the city and surrounding landscape.

The addition will have 4" roof drains with overflow scuppers to avoid any water infiltration within the structure. No skylights or green roof are proposed; however a circular window will be installed on the 2nd floor west elevation to allow for unique views of the city. **Affirmative finding.**

3. Building Openings

Principal entrances shall be clearly defined and readily identifiable from a public street whether by a door, a canopy, porch, or other prominent architectural or landscape features. People with physical challenges should be able to use the same entrance as everyone-else and shall be provided an “accessible route” to the building. Attention shall also be accorded to design features which provide protection from the affects of rain, snow, and ice at building entrances, and to provisions for snow and ice removal or storage.

Primary entries are easily identifiable, and sheltered under a covered walkway along the North Union Street elevation, and a building recess at the North Winooski Avenue entry. An accessible route is available from the public sidewalk directly to the entries.

Window openings shall maintain consistent patterns and proportions appropriate to the use. The window pattern should add variety and interest to the architecture, and be proportioned to appear more vertical than horizontal.

Window arrangement is predominantly vertical, with pleasing arrangement on all three sides. The introduction of both a larger rectangular fixed window and a circular opening break up the tempo of the arrangement, providing an unexpected element of interest and delight. First floor windows are fixed (“A”) while 2nd floor rectangular windows (“B”) are operable awnings.

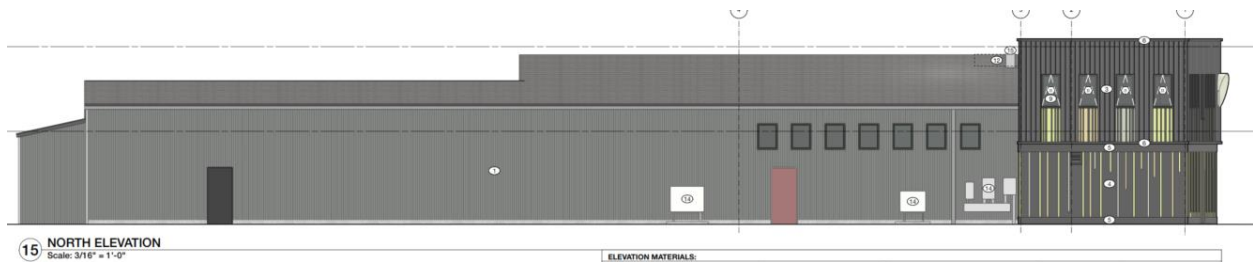


Buildings placed on a side or rear property line where no setback is required shall contain neither doors nor windows along such façade so as not to restrict future development or re-development options of the adjacent property due to fire safety code restrictions. Otherwise they should be setback a minimum of 5-feet.

The north elevation features windows at the 2nd floor only. Side yard setbacks for NMU are 0’; 2’ are proposed. Additions to existing buildings placed on a side or rear property line, or within 10’ of another building where no setback is required are subject to construction material and

building opening restrictions as established in the effective Building Code. (Sec. 5.2.5 (b) 1.)
Affirmative finding as conditioned.

(b) Protection of Important Architectural Resources:



Not applicable.

(c) Protection of Important Public Views:

There are no protected important public views from or across this parcel. Not applicable.

(d) Provide an active and inviting street edge:

Building facades shall be varied along the street edge by the integration of architectural features, building materials, or physical step-backs of the façade along its length. Large expanses of undifferentiated building wall shall be avoided. This may be accomplished by incorporating fenestration patterns, bays, horizontal and vertical façade articulations, the rhythm of openings and prominent architectural features such as porches, patios, bays, articulated bases, stepping back an elevation relative to surrounding structures, and other street level details. The use of traditional facade components such as parapet caps, cornices, storefronts, awnings, canopies, transoms, kick plates, and recessed entries are highly encouraged. In areas where high volumes of pedestrian traffic are desired, the use of architectural recesses and articulations at the street-level are particularly important in order to facilitate the flow of pedestrian traffic.

The plan successfully marries the existing facility to a structural expansion that is highly functional and attractive to the passers-by. Wall treatment is both creative and durable; effectively providing visual interest and breaking up both the primary and North Union Street frontages. The covered walkway is an operational feature that both protects visitors and welcomes them to the building entries.

Non-residential buildings should provide visual access into the interior of building at the street level through the use of large transparent windows and/or window displays in order to create a dynamic and engaging public streetscape. The use of mirrored, frosted, or tinted glass shall not be permitted along an active pedestrian street-level façade.

The proposed window arrangement draws the eye around the perimeter, leading the pedestrian to visually identify building entries and provide visual access to the interior.

The applicants have requested using a partial film on first floor windows facing North Winooski Avenue, to protect the identity of those utilizing services and to provide dignity to that population. This standards includes the phase *should provide visual access into the interior of the building through the use of large transparent windows...* The DAB has supported, and the DRB is asked to consider the particular sensitivity of public exposure of service recipients, and permitting a partial film on first floor streetfront windows.

Urban “open” space shall maximize accessibility for all individuals including the disabled, and encourage social interaction.

The entry courtyard is fully accessible. **Affirmative finding; window film discretionary by the DRB.**

(e) Quality of materials:

All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major streets, sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.

Exterior sheathing is proposed to be engineered wood siding, with composite trim. Reference is made to the specification materials provided within the submission. **Affirmative finding.**

(f) Reduce energy utilization:

New structures should incorporate the best available technologies and materials in order to maximize energy efficient design. All new construction shall meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.

New structures should take advantage of solar access where available, and shall undertake efforts to reduce the impacts of shadows cast on adjacent buildings where practicable, in order to provide opportunities for the use of active and passive solar utilization.

The project is subject to compliance with [Vermont’s Commercial Building Energy Standards](#), and the [Guidelines for Energy Efficient Construction](#).

Significant window openings across all four building elevations will provide increased daylighting to the interior. **Affirmative finding as conditioned.**

(g) Make advertising features complementary to the site:

Where signs and other advertising features are proposed, the applicant shall meet the requirements as per Article 7 - Signs. The size, location, design, texture, lighting, and materials of all exterior signs and advertising features shall not detract from the use and enjoyment of proposed buildings or surrounding properties. National branding through signage and architecture shall be discouraged.

Building elevations define the intent for wall signage, which will require a discrete zoning permit. **Affirmative finding as conditioned.**

(h) Integrate infrastructure into the building design:

See 6.2.2 (p). above.

(i) Make spaces secure and safe:

Spaces shall be designed to facilitate building evacuation, accessibility by fire, police or other emergency personnel and equipment, and, to the extent feasible, provide for adequate and secure visibility for persons using and observing such spaces. Building entrances/entry points shall be visible and adequately lit, and intercom systems for multi-family housing should be incorporated where possible, to maximize personal safety.

The proposed development shall be compliant with all applicable building and fire safety code as defined by the fire marshal and building official. **Affirmative finding as conditioned.**

Article 8: Parking

The original 1993 zoning permit required 21 parking spaces, and 8 were waived.

Permit review under ZP-18-0541CA acknowledged 10 parking spaces onsite. Since that 2018 review, the Multi Modal Mixed Use parking district was created, and the parking regulations amended to eliminate minimum parking requirements.

The addition is not large enough to spur a Transportation Demand Management (TDM) plan (footprint 946; threshold is 8,000 sf.) The proposed site plan illustrates 14 parking spaces; two of them van-accessible.

Section 8.1.9 Maximum Off-Street Parking Requirements

Use	Sq. Ft.	Maximum	Exempt ADA parking	Proposed
Grocery Store @2/1,000	2614	5	-2	
Community Center @ 3/1000	4218	13		
Total		18		14-2 = 12

The proposed parking spaces do not exceed the Maximum Off-Street parking allowance.

Affirmative finding.

Taable 8.1.11 – Parking Dimensional Requirements

Parking spaces are compliant for minimum parking dimensions.

Affirmative finding.

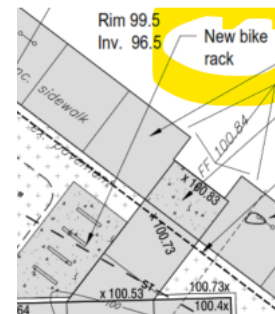
Section 8.2.5 Bicycle Parking

The addition of 2113 sf. will spur the requirement for one more short term bicycle parking space.

(Community Services, 1 / 1,500 sf.)

Bike racks are proposed at the building entry.

Affirmative finding as conditioned.



II. Conditions of Approval

1. Based on the gross new area, the following Impact Fees are assessed:

SF of Project 2113

	Offices & Other	
Department	Rate	Fee
Traffic	0.795	1,679.63
Fire	0.234	494.52
Police	0.412	871.40
Parks	0.493	1,041.32
Library	0.000	0.00
Schools	0.000	0.00
Total	1.934	\$ 4,086.87

2. Impact fees must be paid prior to issuance of a zoning permit, or if a building permit is required, **within thirty (30) days of issuance of the building permit.**
3. Both EPSC and Stormwater Plans require review and approval of the Stormwater engineer.
4. Light levels under the covered walkway will need to be adjusted to comply with Section 5.5.2 (f) 9. B.
 - a. *If a first floor façade is illuminated by lights mounted under a canopy sheltering a walkway, the maximum horizontal illumination of the walkways shall not exceed 3.0 footcandles at grade level.*
5. Additions to existing buildings placed on a side or rear property line, or within 10' of another building where no setback is required are subject to construction material and building opening restrictions as established in the effective Building Code. (Sec. 5.2.5 (b) 1.)
6. The use of mirrored, frosted, or tinted glass shall not be permitted along an active pedestrian street-level façade.
7. The bike rack shall be consistent with Association of Pedestrian and Bicycle Professionals' "Bicycle Parking Guidelines."

8. The applicant shall follow the guidance and conditions of the Vermont Agency of Natural Resources; Department of Environmental Conservation relative to a Soils Management Plan for disposal of any materials.
9. Any signage will require a separate zoning permit.
10. The project is subject to compliance with Commercial Energy Standards, and the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.
11. Standard Conditions 1-15.

NOTE: These are staff comments only. The Development Review Board, who may approve, table, modify, or deny projects, makes decisions.

228 North Winooski Avenue
Burlington, Vermont



**KREBS &
LANSING**
CONSULTING ENGINEERS

1 Main Street, Suite 201
Richester, Vermont 05446

P: (802) 878-0375
www.krebsandlansing.com

OWNER/APPLICANT:

Champlain Housing Trust
88 King Street
Burlington, Vermont 05401

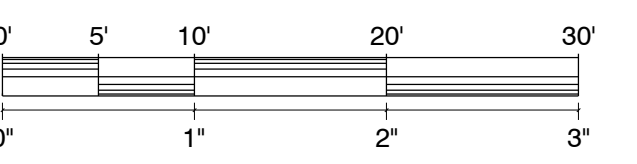
PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
Zoning: Neighborhood Mixed Use/
Design Overlay District

Allowed Setbacks: 0' Min. all sides

Existing Lot Coverage: 79.6%
Proposed Lot Coverate: 79.6%

STAMP:



STANDARD GRAPHIC SCALE (1" = 10')
VALID WHEN PLOTTED ON 24" BY 36" MEDIA

[illegible]

DRAWING TITLE

SITE PLAN

DATE ISSUED: 06/17/24

DRAWN BY: SW

CHECKED BY: DMR

PROJECT NO.: 24156

SCALE: 1" = 10'

DRAWING NO.:

REV. NO.:

C-1

DWG NAME: CRC Board.dwg

Notes:

- Krebs and Lansing has completed limited field survey work as part of this plan in November 2017. Existing conditions taken from autocad drawing by Champlain Consulting Engineers, dated 8/15/1994. Limited information taken from recent photos and an Orthographic photo of the site.
- Underground utilities are approximate and not warranted to be exact or complete. Dig Safe shall be contacted prior to any excavation.
- Elevations are based on Champlain Consulting Engineers vertical datum.
- Project Horizontal Coordinates assumed.
- This plan is not a boundary survey. Property lines shown are approximate.

LEGEND

- Survey Control Point
- Existing Sign
- Existing Light Pole
- Existing Utility Pole
- Existing Tree
- Existing Spot Grade Elevation
- Existing Contour
- Existing Gas Line/Valve
- Existing Sewer Line/Manhole
- Existing Storm Line/Manhole/Basin
- Existing Overhead Electric Line/Power Pole
- Existing Overhead Utility
- Existing Underground Electric & Telephone Line
- Existing Underground Power
- Existing Underground Telephone
- Existing Water Line/Hydrant/Valve/Shutoff
- Existing Fence
- Approximate Property Line

FEEDING
CHAMPLAIN
VALLEY

228 North Winooski Avenue
Burlington, Vermont



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Colchester, Vermont 05446
P: (802) 878-0375
www.krebsandlansing.com

CITY SUBMITTAL

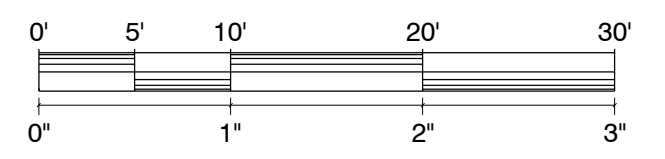
OWNER/APPLICANT:

Champlain Housing Trust
88 King Street
Burlington, Vermont 05401

PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
Zoning: Neighborhood Mixed Use/
Design Overlay District

STAMP:



STANDARD GRAPHIC SCALE (1" = 10')
VALID WHEN PLOTTED ON 24" BY 36" MEDIA

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

EXISTING
CONDITIONS &
DEMOLITION PLAN

DATE ISSUED: 06/17/24

DRAWN BY: SWH

CHECKED BY: DMR

PROJECT NO.: 24156

SCALE: 1" = 10'

DRAWING NO.:

REV. NO.:

X-1

DWG NAME: CRC Base.dwg

228 North Winooski Avenue
Burlington, Vermont



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CITY SUBMITTAL

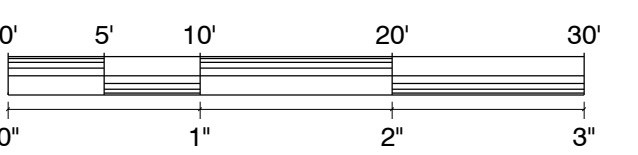
OWNER/APPLICANT:

Champlain Housing Trust
88 King Street
Burlington, Vermont 05401

PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
Zoning: Neighborhood Mixed Use/
Design Overlay District

STAMP:



STANDARD GRAPHIC SCALE (1" = 10')
VALID WHEN PLOTTED ON 24" BY 36" MEDIA

REV. O.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

EROSION PREVENTION & SEDIMENT CONTROL PLAN

DATE ISSUED: 06/17/24

RAWN BY: SW

HECKED BY: DMR

PROJECT NO.: 24156

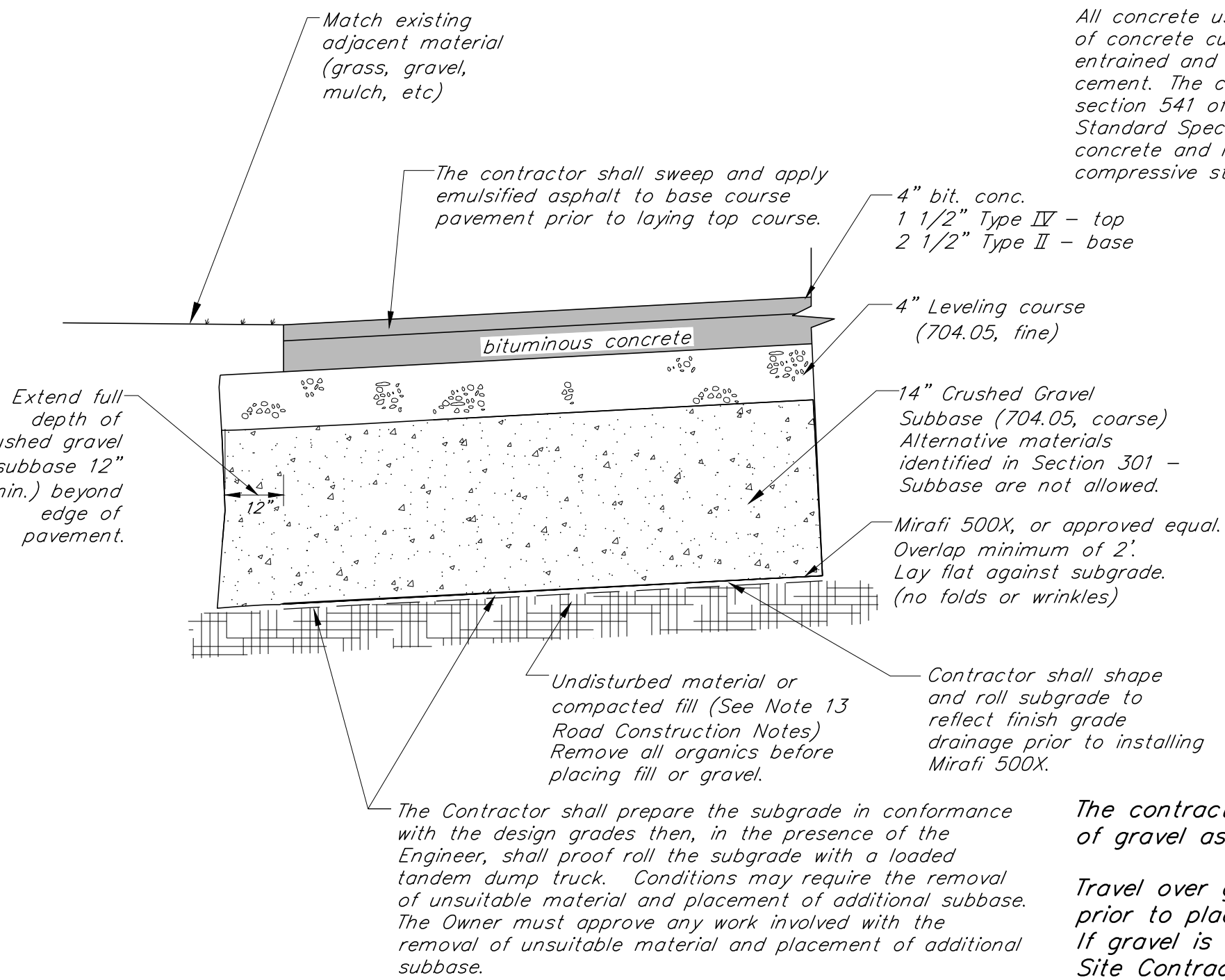
SCALE: 1" = 10'

RAWING NO.:

REV. NO.:

C-2

WG NAME: CRC Based



Without Concrete Curb

N.T.S.

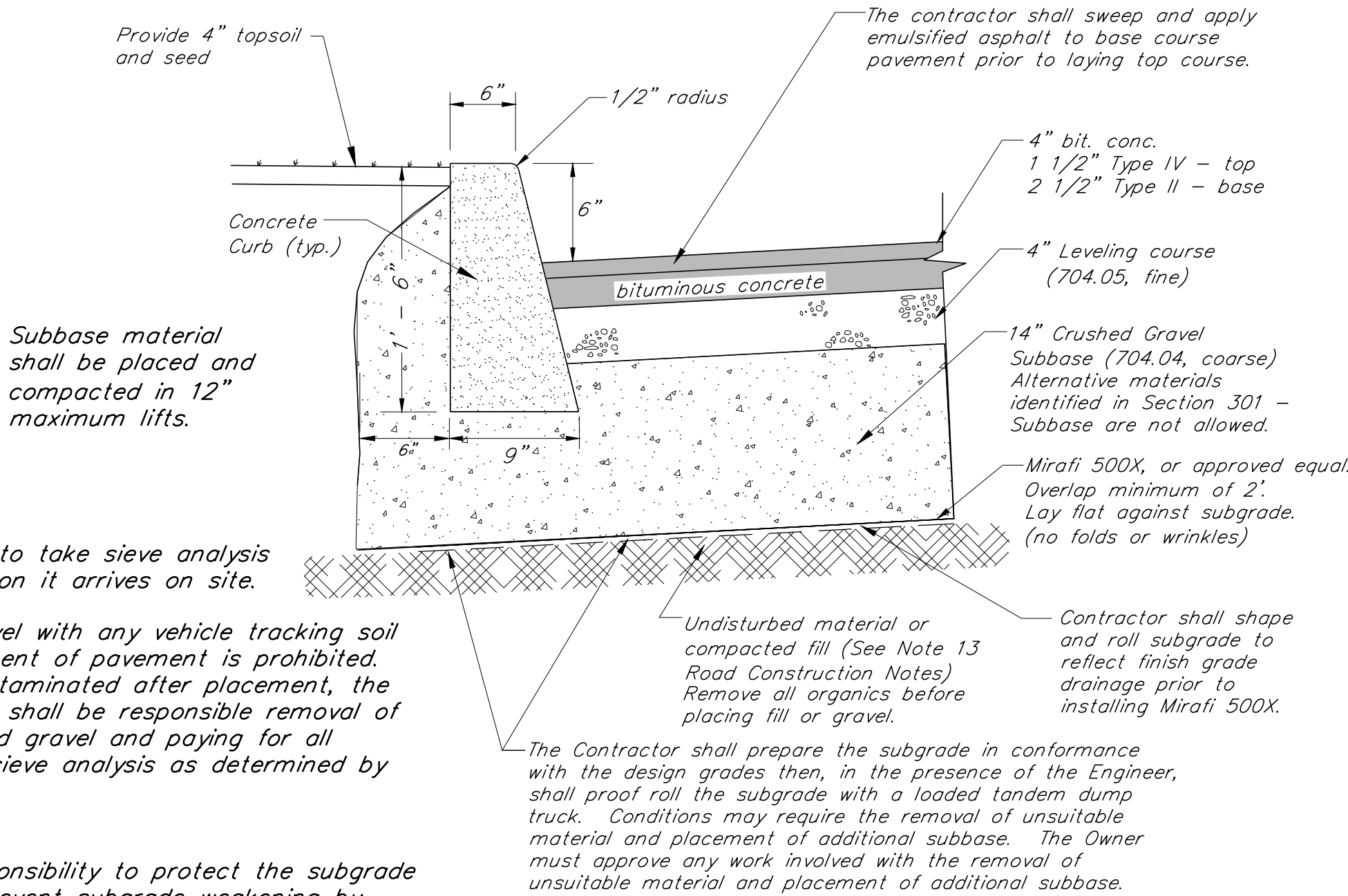
All concrete used in the construction of concrete curb shall be air entrained and made with Portland cement. The concrete shall meet section 541 of the State of Vermont Standard Specification for Class A concrete and have 28 day compressive strength of 4,000 psi.

Concrete Curb

- Broom finish concrete
- All joints to be tool finished
- Expansion/contraction joints every 20' with 1/2" joint filler.
- Score 1/3 total depth at 10' intervals
- Apply 2 coats of Harris Emulsion Kurseal 309 cure/seal compound to all concrete surfaces, per the manufacturer's specifications.

Joint filler shall be resilient non-extruding cellular fiber joint, uniformly saturated with asphalt, offering a minimum of 70% recovery after compression.

The Engineer shall be contacted at least 24 hours prior to forming concrete curb to review layout.



With Concrete Curb

It is the Contractor's responsibility to protect the subgrade during construction and prevent subgrade weakening by precipitation or construction vehicle travel. Any repair of compromised subgrade soil caused by improper protection or construction methods shall be at the no cost to the Owner.

Typical Road & Parking Cross Section Detail

N.T.S.

Construction Material Specifications

- Unless otherwise indicated all civil site materials shall comply with the Vermont Agency of Transportation "Standard Specifications for Construction" 2018.
- The Contractor shall follow Vermont Highway Specifications (2018) Section 203.11 for placing and spreading embankments.
- Fill material for Embankment shall be clean, shall contain no stones greater than 3" in diameter, no frozen lumps, clay, organics, roots or contaminated material, shall meet the sieve indicated below, and shall be approved by the Engineer. Fill shall be placed in 12" lifts, wetted and compacted with satisfactory compaction equipment to 90% of maximum density (Standard Proctor).

Sieve	% Finer
2"	100
4"	85-100
#4	60-100
#200	30 maximum

- Crushed Gravel for Subbase shall conform to Vermont Highway Specifications (2018) 704.05 and shall meet the following gradation requirements:

COARSE GRADED		FINE GRADED	
Sieve	% Finer	Sieve	% Finer
4"	95-100	2"	100
#4	30-60	1 1/2"	90-100
No. 100	0-12	#4	30-60
No. 200	0-6	No. 100	0-12
		No. 200	0-6

- Dense Graded Crushed Stone for Subbase shall conform to Vermont Highway Specifications (2018) 704.06 and shall meet the following gradation requirements:

Sieve	% Finer
3-1/2"	100
3"	90-100
2"	75-100
1"	50-80
1/2"	30-60
No. 4	15-40
No. 200	0-6

- Drainage Aggregate, Drainage Rock, and Clean Crushed Stone for Drainage shall conform to Vermont Highway Specifications (2018) 704.16 and shall meet the following gradation requirements:

Sieve	% Finer
1"	100
3/4"	90-100
3/8"	20-55
No. 4	0-10
No. 8	0-5

- Sand Borrow and Cushion shall conform to Vermont Highway Specifications (2018) 703.03 and shall meet the following gradation requirements:

Sieve	% Finer
2"	100
1-1/2"	90-100
1/2"	70-100
No. 4	60-100
No. 100	0-20
No. 200	0-8

- Portland Cement Concrete shall conform to the current edition of the Vermont AOT Standard Specifications for Construction Section 541 and shall meet the properties of the Concrete Class identified on the plans. Concrete specified with a 5,000 psi, 28-Day Compressive Strength shall meet the following mix design:

Max. water-cement ratio (lb./lb.)	0.44
Min. cement factor (lb./C.Y.)	705
Entrained air content (%)	5 - 7
Slump (inches, before adding HRWR)	2 - 4

Use air entrained agent conforming to ASTM C260 with 5-7% total air. Use high range water reducing agent conforming to ASTM C494 in all concrete.

- The Owner will pay for on site soils testing (compaction, sieve, and proctor). The Contractor shall pay for failing tests.

Construction Notes

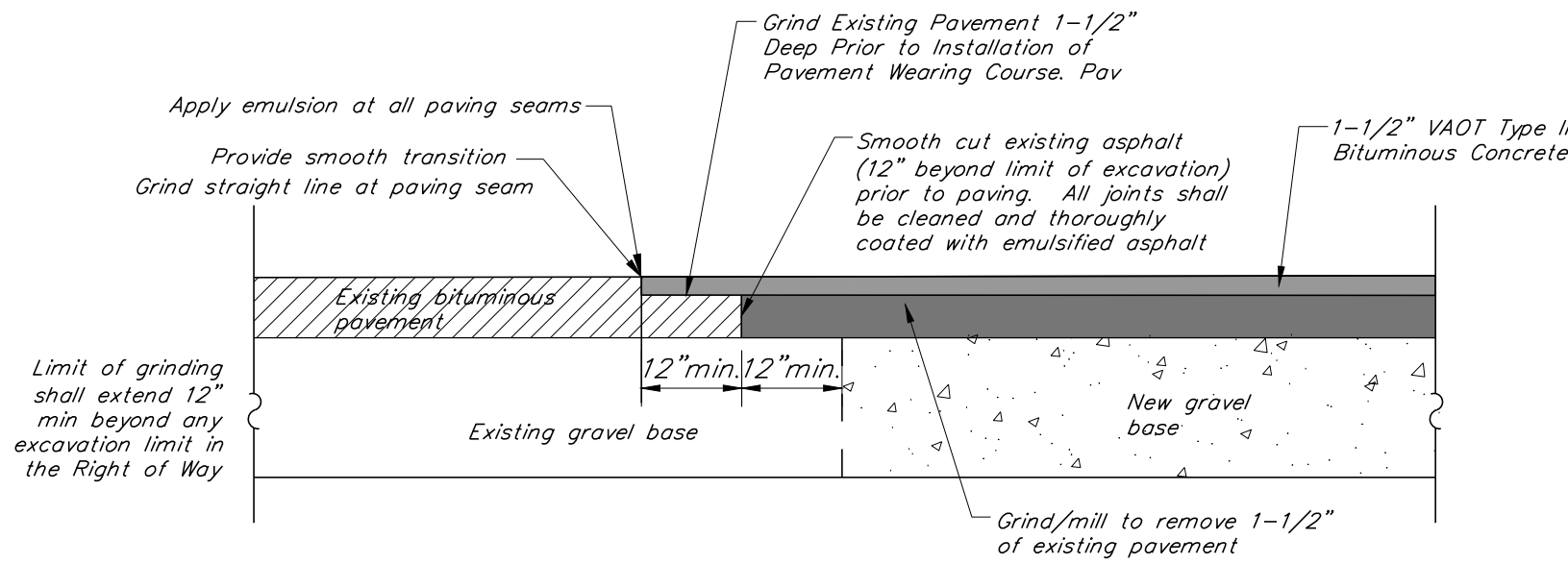
- The methods and materials of construction shall conform to the latest standards of the City of Burlington and the State of Vermont. All work shall be in conformance with all permits and approvals issued for the project. In case of conflict, the more stringent specification shall apply as determined by the Engineer. All work shall be done in a workmanlike manner and completed in the time specified by Owner.
- The Contractor shall be responsible for all work and materials shown and required to make the job complete. These drawings do not show every lifting or appearance. Materials shall be as specified on the drawings. Manufacturer's product specifications shall be submitted for all materials to the Engineer for approval prior to installation.
- The location and size of existing underground utilities is not warranted to be exact or complete. The Contractor shall field locate all utilities and shall contact the affected utility company, the Engineer and the City of South Burlington prior to making any hook ups. The Contractor shall be solely responsible for all existing utilities and their uninterrupted services. All off-site backfill, sheeting and shoring, dewatering, clearing and grubbing, erosion control, dust control, traffic control, grading, and all incidentals shall be included as part of the required work.
- Repair of all disturbed areas, grading, seeding, mulching, repair of roads and curbs, paving, and other incidentals are included as part of the required work. All disturbed areas shall be loamed and mulched until permanent ground cover is established.
- The Contractor shall verify all horizontal control and temporary bench marks before use.
- The workmen and public shall be protected by the Contractor from any and all hazards connected with the construction work. Open trenches, materials, or equipment within the working limits are to be guarded by the use of adequate barricades or flag men. All barricades left in position overnight are to be properly lighted. Kerosene pots are not acceptable. When work narrows the usable pavement, flag men shall be employed to aid the flow of traffic so that there will be no undue delays. The Contractor shall be held responsible for the safety of all workmen and the general public and all damages to property occurring from or upon the work occasioned by negligence or shall be held responsible for the safety of all workmen and the general public and all damages to property occurring from or upon the work occasioned by negligence or day or night within the working area. All work shall be in conformance to OSHA regulations, Title 19, Parts 1926.651 and 1926.652, and applicable to VOSHA regulations.
- Preconstruction Excavation areas shown on the plan shall be completed prior to beginning site utility work and prior to ordering structures. The Contractor shall allow the Engineer one week to provide design decisions based on information obtained from the Preconstruction Excavation. The Contractor shall contact the Engineer at least 24 hours in advance of performing the excavation. In addition to the designated Preconstruction Excavations, the Contractor shall verify all utility intersections and contact Engineer and Owner with conflicts.
- Contractor shall contact Dig Safe prior to any excavation.
- Temporary silt fence shall be erected prior to any clearing or construction. Fencing may be erected in phases, but in no case shall be constructed of materials, or equipment within the working limits are to be guarded by the use of adequate barricades or flag men. These areas shall be the Contractor's responsibility to insure no damage is done to designated trees.
- Existing plantings are located in general areas as shown on the plans. Contractor shall protect plantings scheduled to remain so as not to damage these or their root systems.
- Contractor shall verify all utility intersections by excavation at least 300 ft. in advance of all pipe laying activities. The Engineer and Owner must be contacted with conflict. Failure to comply with project requirements shall severely limit the Contractor from pursuing any claim to compensation resulting from conflicts with the existing utilities.
- Contractor shall comply with all permits and approvals issued for this project.
- Slope stability upon unsaturated soil conditions. If during construction saturated soils are encountered, contact the Engineer immediately.

Road Construction Notes

(All references to road shall apply to parking areas and sidewalks as well.)

- New road shall be constructed to the line and grade shown on the drawings. The road and utility locations shall be as typically detailed unless otherwise shown.
- All road and parking construction shall be completed in accordance with the Vermont Agency of Transportation "Standard Specifications for Construction" 2018, hereafter called Vermont Highway Specifications, specifications found on these plans, and project specifications. In case of conflict, the more stringent specification shall apply as determined by the Engineer.
- The Contractor shall follow Vermont Highway Specifications (2024) Section 203.11 for placing and spreading embankments.
- Fill material for road embankment shall meet Note #13 below and be approved by the Engineer. Fill shall be placed in 12" lifts, wetted and compacted with satisfactory compaction equipment to 95% of maximum density (Standard Proctor).
- Road in fill sections shall be placed and compacted a minimum of 3 feet above top of any utility to be installed before trench is excavated for pipe placement. In trenches and cut sections, the Contractor shall provide all necessary sheeting, shoring and bracing to maintain compliance with all OSHA/VOSHA regulations.
- Methods for construction of subgrade shall conform to Vermont Highway Specifications (2024) 203.12 or as determined by the Engineer.
- Any subgrade or subbase disturbed by Contractor, or rendered unsuitable by construction machinery, shall be removed and replaced with approved granular backfill at the Contractor's expense. The subgrade shall be compacted to attain at least 95% of the maximum density (Standard Proctor) before placing road or embankment materials.
- The Owner will pay for on site soils testing (compaction, sieve, and proctor). The Contractor shall pay for failing tests.
- Sand borrow and cushion shall conform to Vermont Highway Specifications (2024) 703.03. Granular borrow shall conform to the Vermont Highway Specifications 703.04.
- Gravel subbase for pavement shall conform to Vermont Highway Specifications (2024) 704.06, Dense Graded Crushed Stone. Substitute materials identified in VAOT Specifications Section 301 - Subbase are not allowed.
- Leveling course shall conform to Vermont Highway Specifications (2024) 704.05, fine grading. Shoulders shall conform to Section 704.12, Aggregate for Shoulders. Substitute materials identified in VAOT Specifications Section 301 - Subbase are not allowed.
- Bituminous concrete pavement shall conform to Vermont Highway Specifications (2024) Section 404 and 406. Binder course shall be Type I + II, and finish wearing course shall be Type III, IV, or as detailed.
- Embankment fill for all impervious areas, EXCLUDING BUILDINGS, shall be a sieve specification as follows:

Sieve	% Finer
4"	100
2"	85-100
#4	60-100
#200	30 maximum
- Dense graded crushed stone, crushed gravel and sand borrow shall not be contaminated by work. Construction traffic shall not travel over exposed areas of this material.
- Contractor is responsible for all pavement markings (ie, parking striping, hand/cap markings, stop bars, etc.) shown or implied on the Plans. This includes both new and replacement of existing.
 - Paint for pavement markings shall be Hydrophast Waterborne Traffic Paint by Franklin Paint Company. It shall be reflective, VOC compliant, fast drying, 100% acrylic waterborne traffic paint. Paint for parking line striping shall be yellow. Confirm color of all other pavement markings with Owner prior to application.
 - Traffic point shall be applied with a uniform thickness and at a rate such that no pavement is visible after drying. Additional point application will be required if underlying pavement is visible.



- Set up and maintain signs and other safety control devices.
- Grind and remove existing pavement to required depth. Provide straight line joint between existing and new pavement.
- All joints and adjacent surfaces shall be thoroughly cleaned of all loose/unsuitable material and coated with Emulsified Asphalt (VAOT Type RS-1) immediately prior to paving. Do not puddle emulsion on bottom of hole.
- Clean up area. Do not leave excess asphalt or other debris on the pavement. Remove traffic control measures.

Pavement Matching Detail

N.T.S.

FEEDING CHAMPLAIN VALLEY

228 North Winooski Avenue
Burlington, Vermont



CITY SUBMITTAL

OWNER/APPLICANT:

Champlain Housing Trust
88 King Street
Burlington, Vermont 05401

PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
Zoning: Neighborhood Mixed Use/
Design Overlay District

STAMP:

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

CIVIL DETAILS

DATE ISSUED: 06/17/24

DRAWN BY: SWH

CHECKED BY: DMR

PROJECT NO.: 24156

SCALE: N.T.S.

DRAWING NO.:

REV. NO.:

CD-1

DWG. NAME: CRC Base.dwg

AS-BUILT (RECORD) DRAWINGS

The Contractor shall be responsible for providing the Owner with a clearly marked "red-lined" as-built (record) utility site drawing that meets the City of South Burlington's requirements and the specifications below:

Utility

Sanitary

- All rims, inverts, pipe sizes, and types shall be provided.
- Cleanouts shall be horizontally located with three (3) swing ties and the pipe invert elevation shall be provided accurate to 0.1 ft.
- Service pipe inverts shall be provided at the building with a horizontal measurement from a building corner.

Storm

- All manhole/CB - rims, inverts, pipe sizes, and types shall be provided.
- Inverts of all yard drains shall be provided.
- Cleanouts and fittings (wye, reducers, etc.) shall be horizontally located with three (3) swing ties and the pipe invert elevation shall be provided accurate to 0.1 ft.
- Service pipe inverts shall be provided at the building with a horizontal measurement from a building corner.

Electric

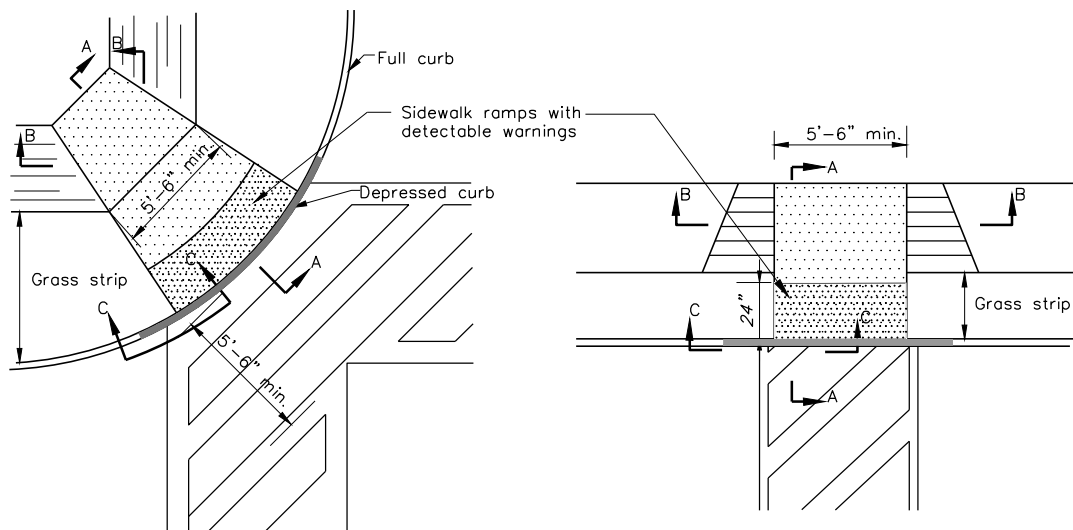
- Horizontal alignment shall be accurately sketched on a Site Plan. The Site Plan shall be specific to electric and communication utilities only.
- Trench x-section (number and type conduit, encasement detail, conduit length, run direction) shall be provided for each run of conduit. If the cross-section changes mid run the location of the change must be indicated with a new cross section detail.

Site Lighting

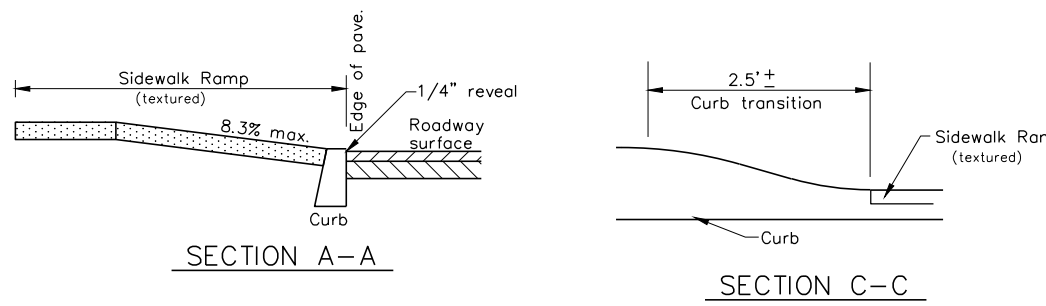
- Contractor shall be responsible for providing to the Owner a complete "mark-up" plan showing the layout of the site lighting conduit from light pole to light pole.

Other -

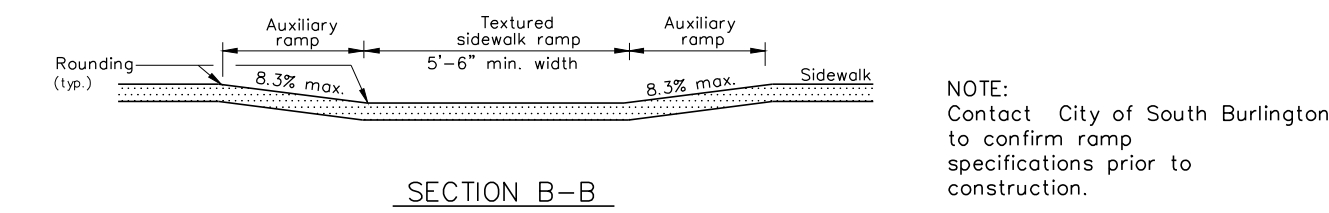
- Contractor shall be responsible for locating and identifying all existing utilities that are exposed in the process of installing new utilities.



Single Ramp On Corner Radius,
Narrow Grass Strip Between
Sidewalk and Curb.



Single Ramp on Tangent,
Narrow Grass Strip

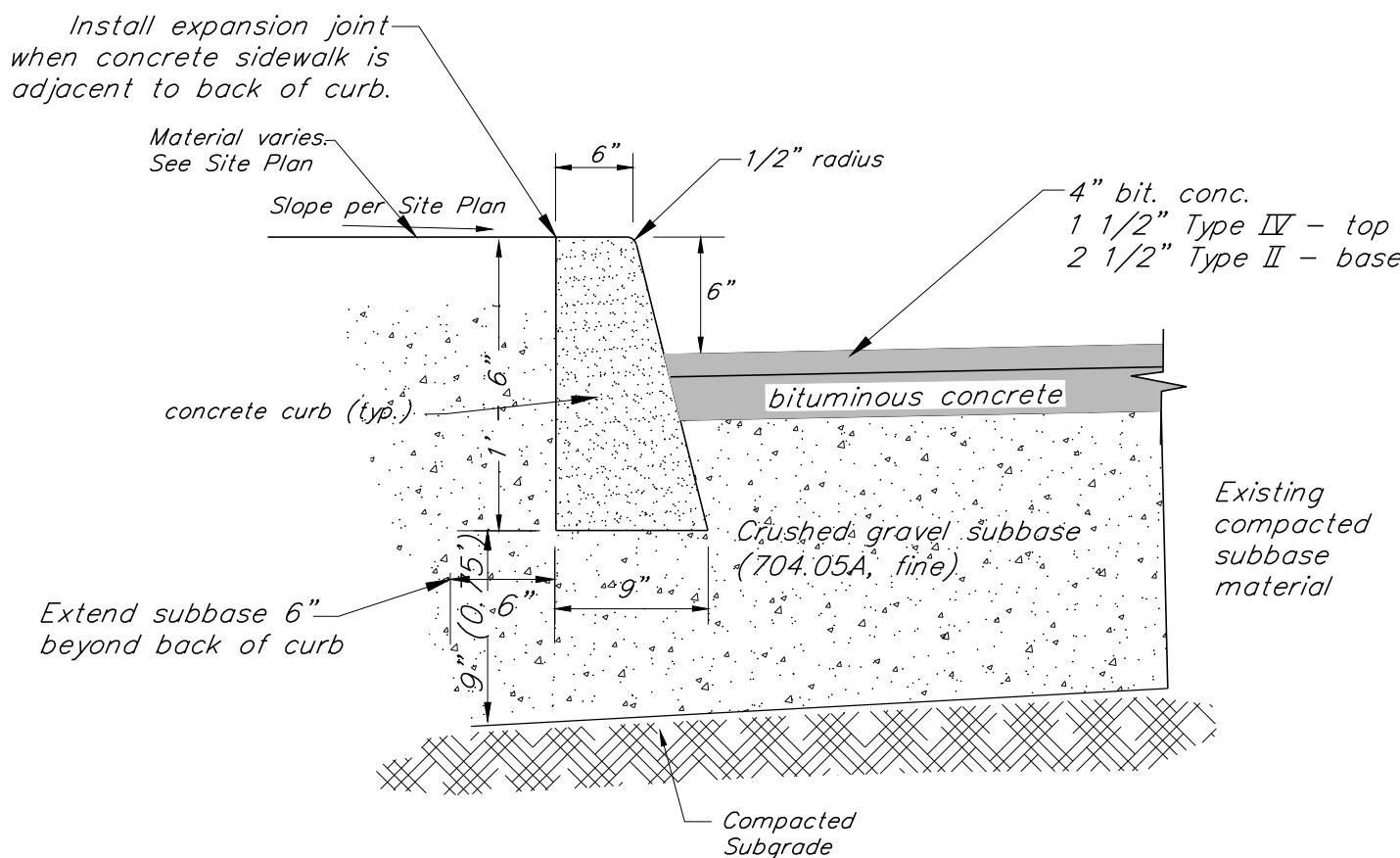


Sidewalk Ramp Detail
N.T.S.

Concrete Curb

- Broom finish concrete
- All joints to be tool finished
- Expansion/contraction joints every 20' with 1/2" joint filler. Joint filler shall be resilient non-extruding cellular fiber joint, uniformly saturated with asphalt, offering a minimum of 70% recovery after compression.
- Score 1/3 total depth at 10' intervals
- Apply 2 coats of Harris Emulsion Kurseal 309 cure/seal compound to all concrete surfaces per the manufacturer's specifications.
- Concrete may not be poured if frost is present or thawing in the subgrade, if the temperature is 40° F or less, or during unseasonable weather conditions.
- Concrete curb radii less than 200 ft shall be formed with flexible forms

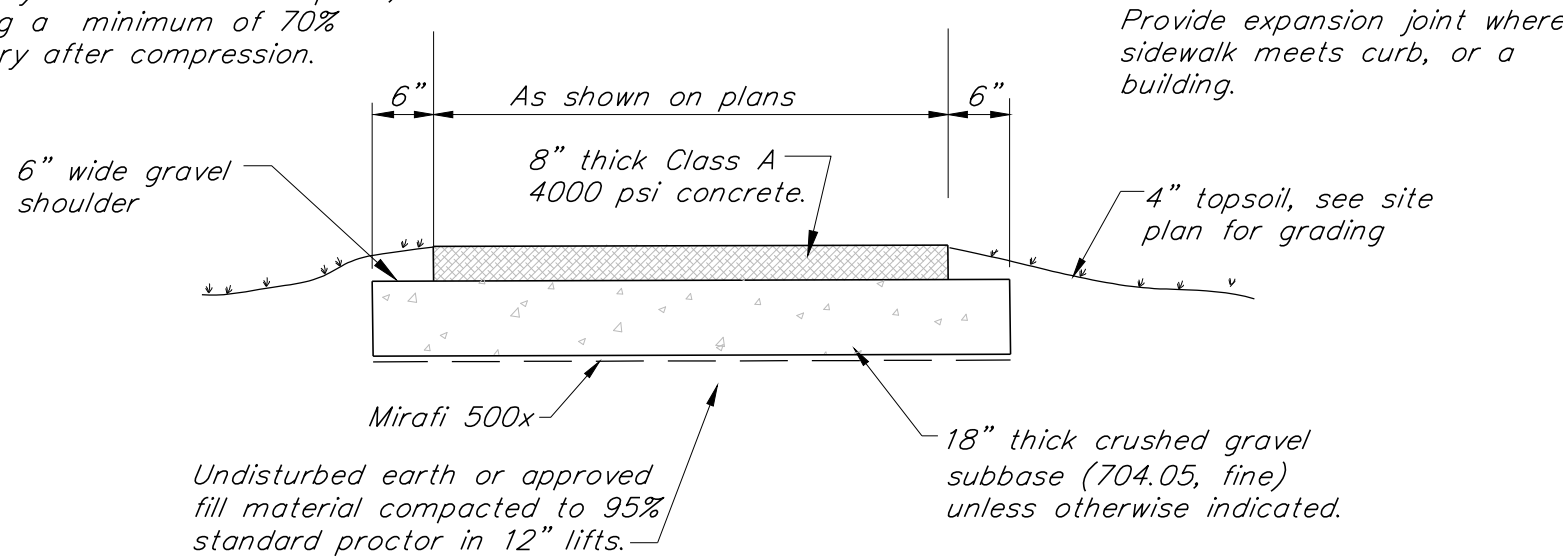
All concrete used in the construction of concrete curb shall be air entrained (5% ±1%) and made with Portland cement. The concrete shall meet section 541 of the State of Vermont Standard Specification for Class A concrete and have min. 28 day compressive strength of 4,000 psi.



Typical New Concrete Curb Detail
N.T.S.

All concrete used in the construction of concrete sidewalk shall be air entrained and made with Portland cement. The concrete shall meet section 501 of the State of Vermont Standard Specification for Class A concrete and have 28 day compressive strength of 4,000 psi.

Joint filler shall be resilient non-extruding cellular fiber joint, uniformly saturated with asphalt, offering a minimum of 70% recovery after compression.

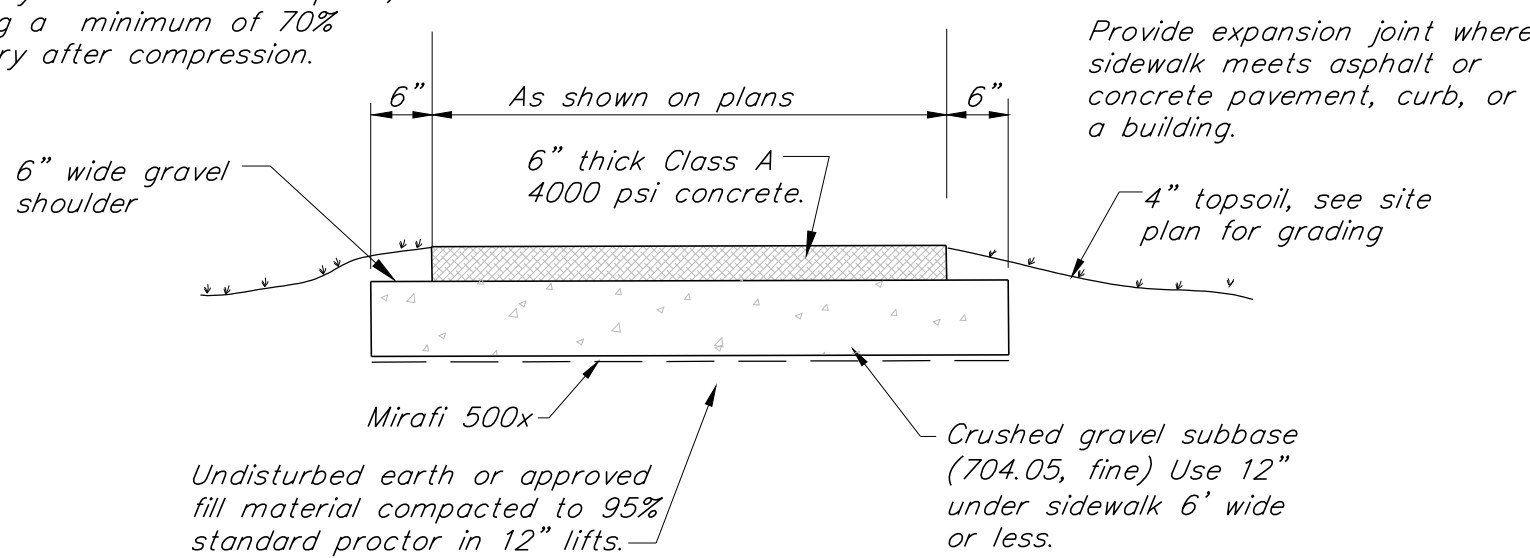


Cross Section
New Thickened Concrete Walk Detail
N.T.S.

USE THICKENED CONCRETE WALK DETAIL AT ALL DRIVEWAY CROSSINGS AND

All concrete used in the construction of concrete sidewalk shall be air entrained and made with Portland cement. The concrete shall meet section 501 of the State of Vermont Standard Specification for Class A concrete and have 28 day compressive strength of 4,000 psi.

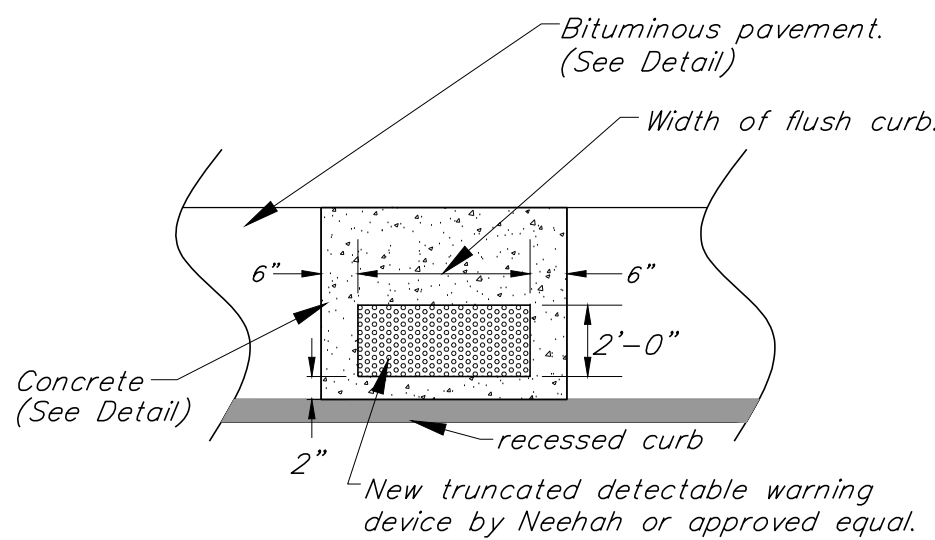
Joint filler shall be resilient non-extruding cellular fiber joint, uniformly saturated with asphalt, offering a minimum of 70% recovery after compression.



Cross Section
New Concrete Walk Detail
(For Concrete Walks not to be driven on)
N.T.S.

Concrete Slab

- Broom finish concrete with tooled edges.
- Expansion joints shall be spaced 20 ft. on center unless otherwise indicated on Site Plan.
- Score control joints 1-1/4" depth at intervals equal to width of sidewalk.
- Apply 2 coats of Euclid Everclear VOX cure/seal compound to all concrete surfaces, per the manufacturer's specifications.
- Concrete construction shall conform to section 618.03 of the current VAOT Standard Specifications for Construction



Detectable Warning
Placement Detail
N.T.S.

Concrete Slab

- Broom finish concrete with tooled edges.
- Expansion joints shall be spaced 20 ft. on center unless otherwise indicated on Site Plan.
- Score control joints 1-1/4" depth at intervals equal to width of sidewalk.
- Apply 2 coats of Euclid Everclear VOX cure/seal compound to all concrete surfaces, per the manufacturer's specifications.
- Concrete construction shall conform to section 618.03 of the current VAOT Standard Specifications for Construction

FEEDING
CHAMPLAIN
VALLEY

228 North Winooski Avenue
Burlington, Vermont



CITY SUBMITTAL

OWNER/APPLICANT:

Champlain Housing Trust
88 King Street
Burlington, Vermont 05401

PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
Zoning: Neighborhood Mixed Use/
Design Overlay District

STAMP:

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

CIVIL DETAILS

DATE ISSUED: 06/17/24

DRAWN BY: SWH

CHECKED BY: DMR

PROJECT NO.: 24156

SCALE: N.T.S.

DRAWING NO.:

REV. NO.:

CD-2

DWG NAME: CRC Boss.dwg

FEEDING
CHAMPLAIN
VALLEY

228 North Winooski Avenue
Burlington, Vermont

**KREBS &
LANSING**
CONSULTING ENGINEERS
164 Main Street, Suite 201 P: (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

CITY SUBMITTAL

OWNER/APPLICANT:
Champlain Housing Trust
88 King Street
Burlington, Vermont 05401

PROPERTY INFORMATION:
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STAMP:

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

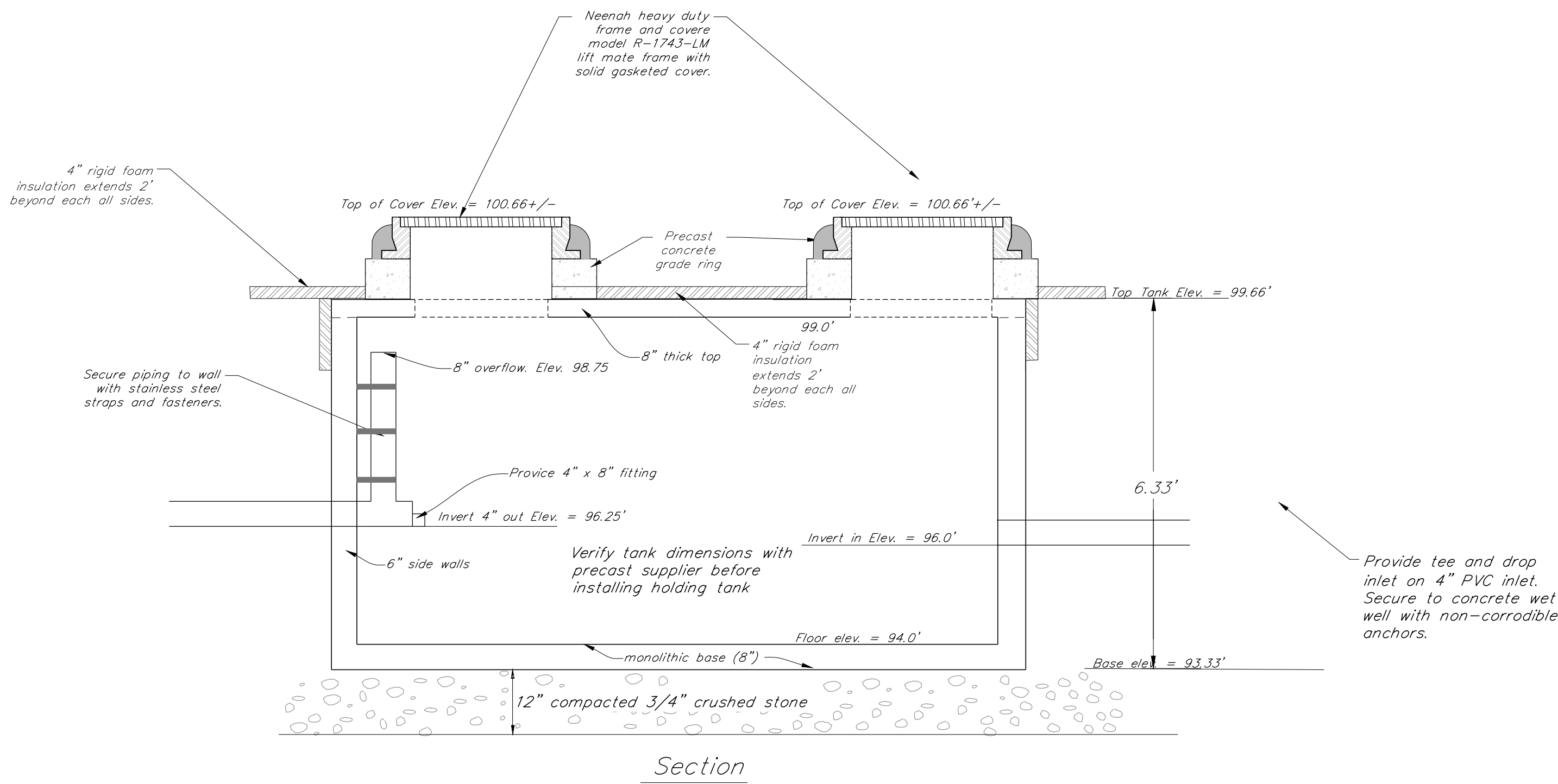
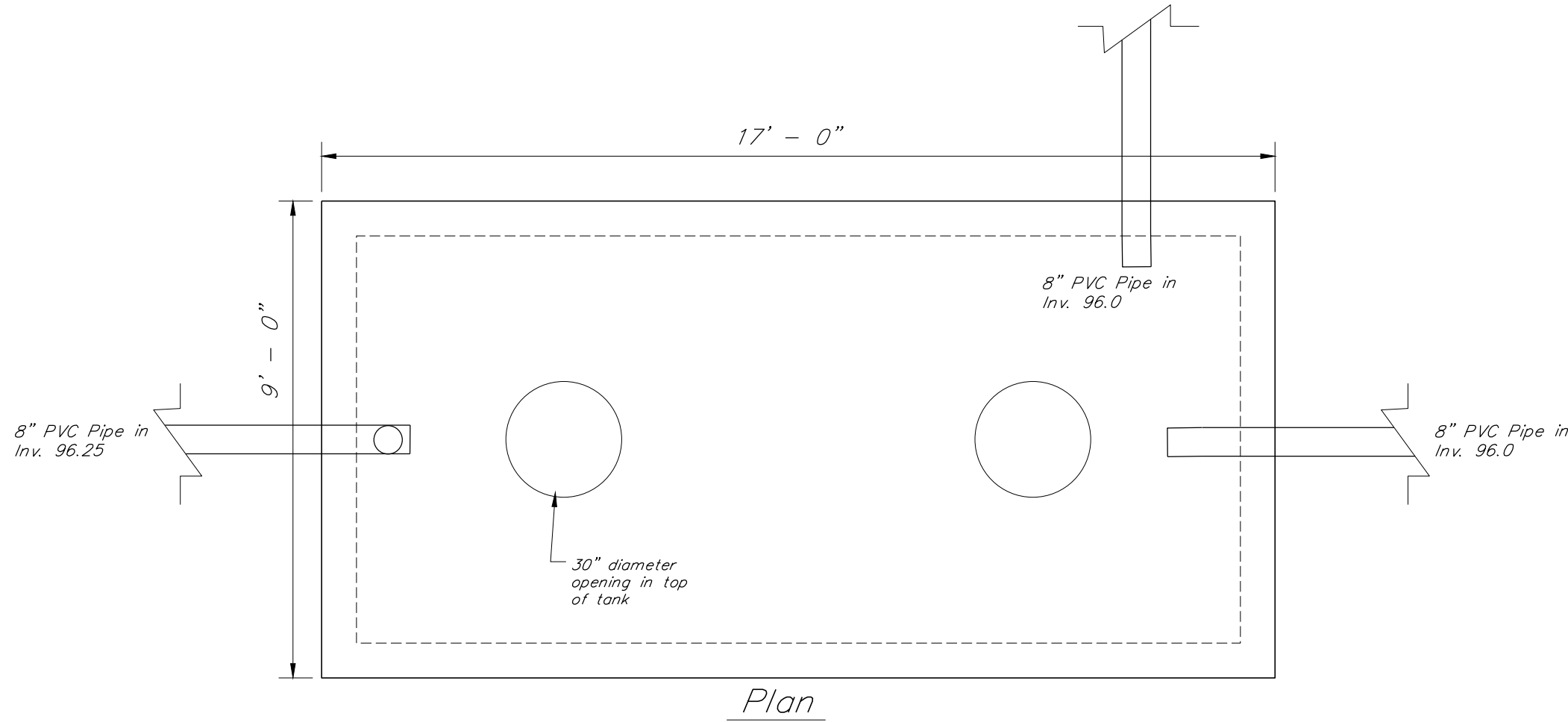
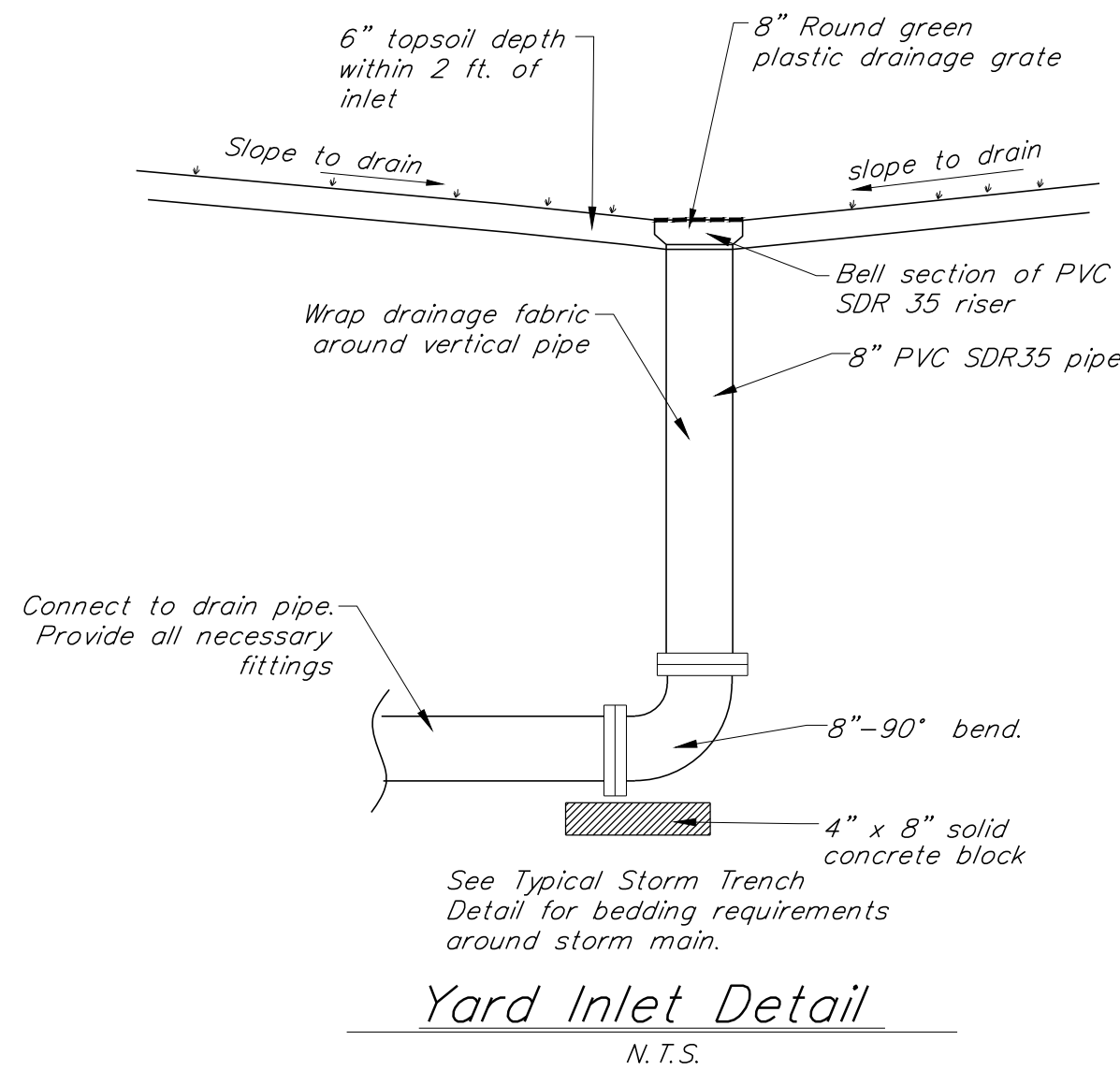
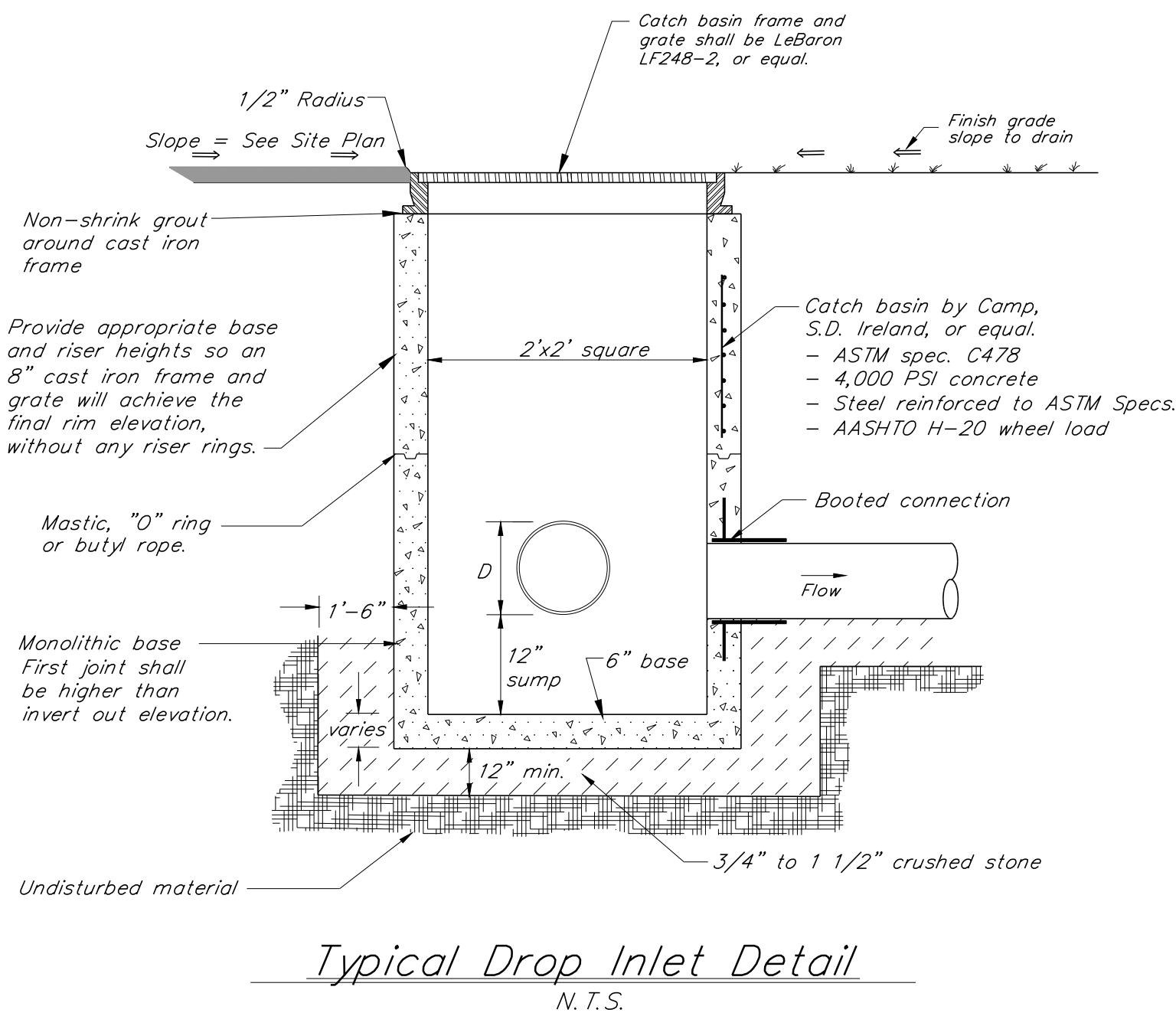
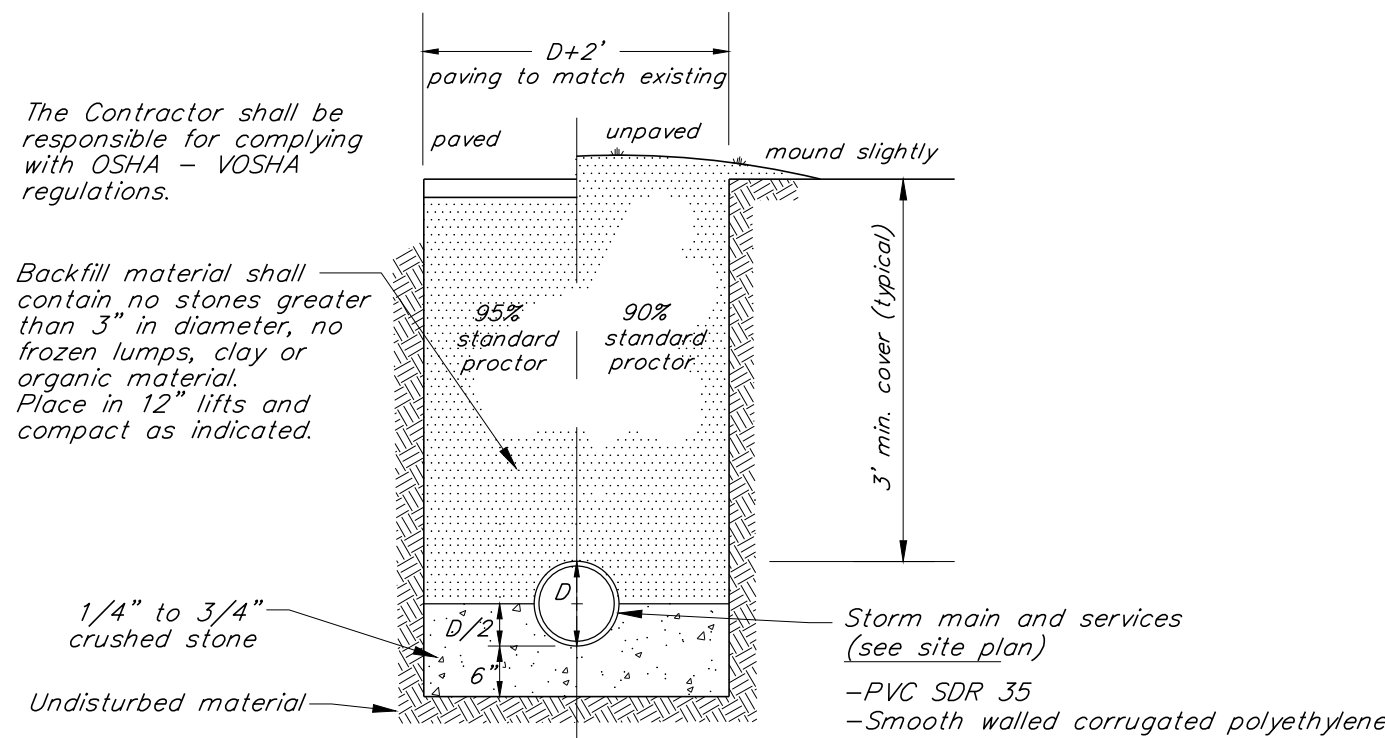
CIVIL DETAILS

DATE ISSUED: 06/17/24
DRAWN BY: SWH CHECKED BY: DMR
PROJECT NO.: 24156 SCALE: N.T.S.
DRAWING NO.: REV. NO.:

CD-3

DWG NAME: CRC Base.dwg

Backfill material under roads or paved areas must pass subgrade proof roll. Any trench area that does not successfully proof roll shall, at the Contractor's expense, have sufficient material removed and replaced with acceptable embankment material and compacted to provide acceptable proof roll conditions.



3,000 Gallon Stormwater Tank

not to scale

Heavy Duty Tank H-20 Loading

TEMPORARY & FINAL STABILIZATION NOTES

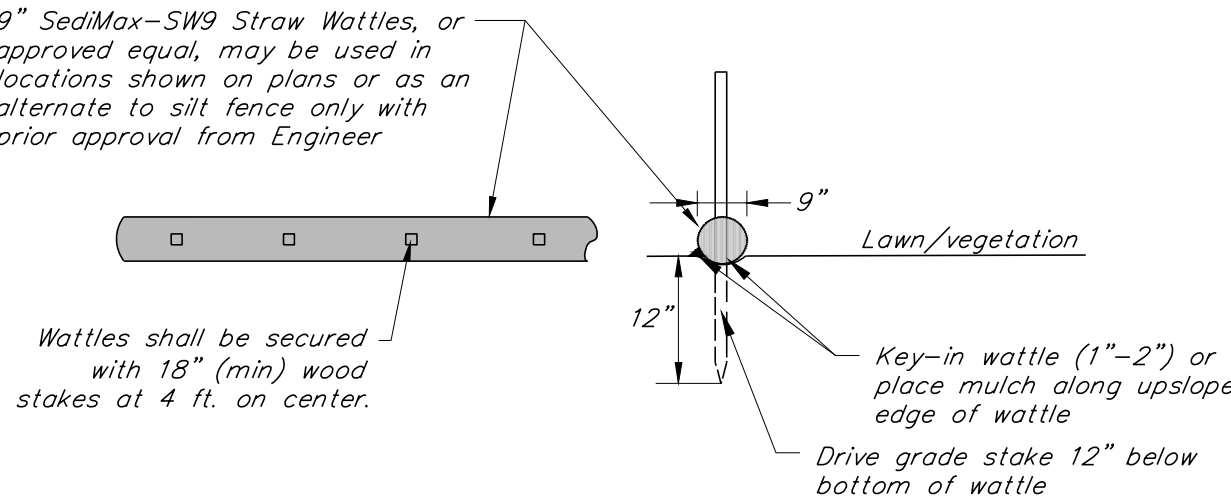
1. All areas of earth disturbance associated with this project must be stabilized within 14 days of initial disturbance. After this initial 14-day period, all earth disturbance areas associated must be stabilized on a daily basis, with the following exceptions:
- i. Stabilization is not required if work is to continue within the area within the next 24 hours and there is no precipitation forecast for the next 24 hours.
- ii. Stabilization is not required if the work is occurring in a self-contained excavation (i.e., no outlet for stormwater) with a depth of 2 feet or greater (e.g., underground line installation).
2. Soil stabilization shall be achieved by seed and mulch (see details), hydroseeding with mulch tackifier, sod, stone, and/or rolled erosion control products (e.g., erosion control blanket; see detail). Mulch shall be comprised of straw, hay, compost, woodchips, wood stump grindings, and/or erosion control mix (see detail).
3. Appropriate seed mix shall be applied to designated areas per this EPSC Plan and seed specifications (see details). For an area to be stabilized for winter by vegetated cover, seeding must be completed by September 15.
4. Areas to be stabilized for winter that do not have established vegetation by October 15 shall be stabilized by anchored mulch at the winter application rate, or other approved stabilization measures (e.g., rolled erosion control product; see detail). Dormant seeding with Winter Rye is recommended (see detail).
5. All temporary EPSC measures shall be removed within 30 days after final site stabilization or after the temporary EPSC measures are no longer needed, unless otherwise authorized and approved in writing by the Owner.
6. Following temporary or permanent stabilization, maintenance shall be performed as necessary to ensure continued stabilization.
7. Except as noted below, all areas of disturbance shall be seeded and stabilized with EPSC measures (e.g., mulch, erosion control mix, rock rip rap, or rolled erosion control product), including areas where construction has been suspended or sections completed. The following shall also apply:
- a. For active construction areas such as borrow or stockpile areas, roadway improvements, and areas within 50 feet of a building under construction, a perimeter sediment control system (e.g., silt fence) shall be installed and maintained to contain soil. Exposed disturbed areas adjacent to a conveyance that provides rapid offsite discharge of sediment (e.g., a cut slope at an entrance) shall be covered with plastic or geotextile to prevent soil loss until the area can be stabilized. Stabilized construction entrances shall be maintained to control equipment and vehicles from tracking material off site.
- b. Permanent seeding shall only be undertaken in the spring season from April through May and in late summer and early fall until September 15; summer planting may be conducted if adequate watering is provided. During the peak summer months and in the fall after September 15, an appropriate temporary stabilization shall be implemented. Temporary summer planting may suffice for permanent seeding if adequate natural rainfall allows for vigorous growth during the mid summer period. The Contractor's scope of work shall include return to the site the spring following construction to perform any further seeding that may be required and to remove any remaining erosion control measures that are no longer needed.
- d. Temporary sediment trapping devices (e.g., silt fence) shall not be removed until permanent stabilization is established in all contributory drainage areas. Similarly, stabilization shall be established prior to converting sediment traps and/or sediment basins into permanent (post-construction) stormwater management practices.
- e. Stabilization measures shall be applied to bare earth surfaces with seed and anchored straw mulch, or other approved stabilization measures (e.g., rolled erosion control product) as soon as possible after disturbance.

"EPSC" – Erosion Prevent & Sediment Control

NOTES:

1. Contractor shall be responsible for the installation, maintenance, and removal of straw wattles in all locations shown on the plans.
2. Maintenance shall be performed as needed and material removed when sediment reaches half of product height. Remove wattle after successful establishment of vegetation.

Wattle spacing chart	
Slope Gradient (H:V)	Wattle spacing
< 6:1	50 ft. or less
4:1 – 6:1	35 ft. or less
> 4:1 – 2:1	20 ft. or less
> 2:1 – 1:1	10 ft. or less
> 1:1	5 ft. or less



Typical Straw Wattle Sediment Control

N.T.S.

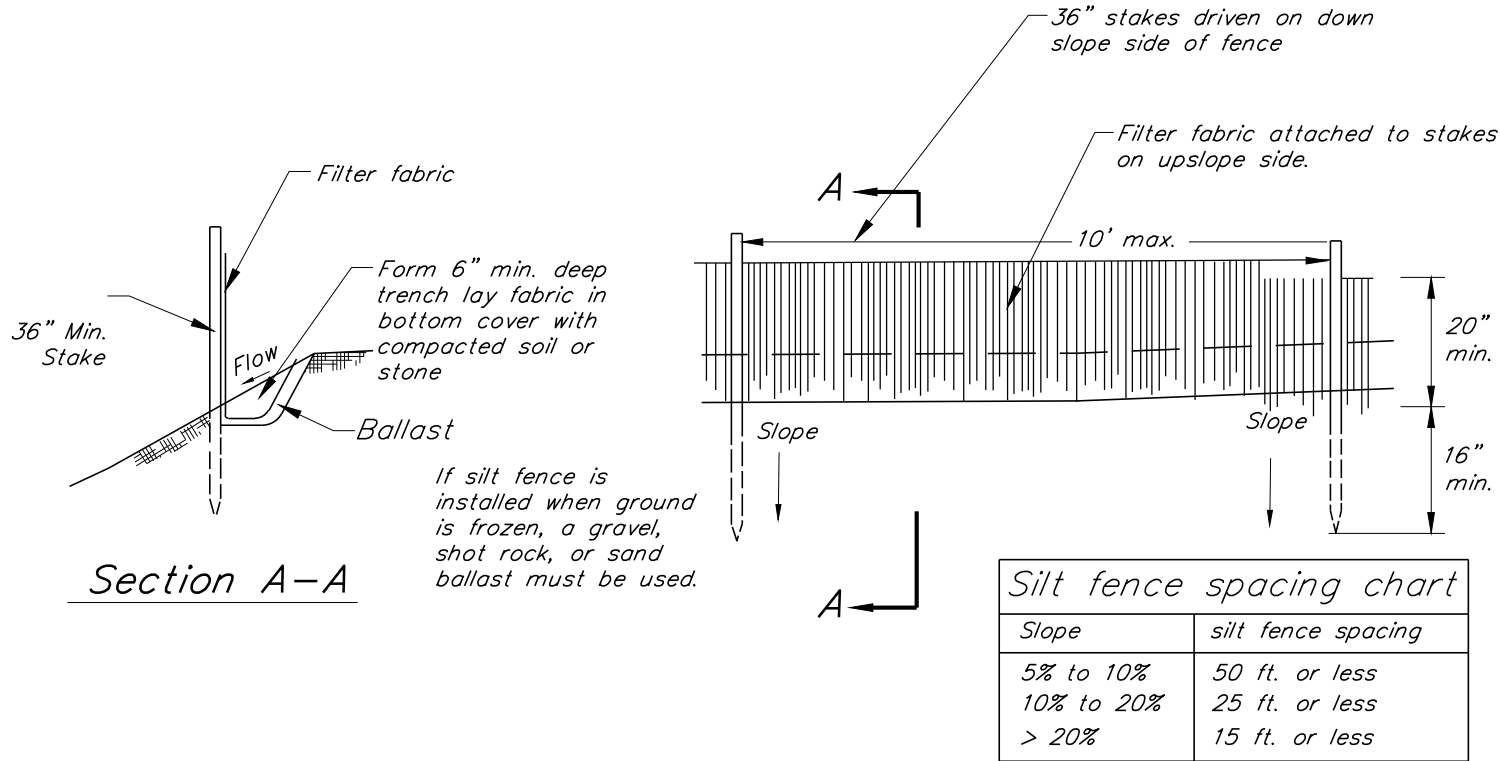
Permanent Seed Mix shall be used as early as practicable between 5/15 and 9/15 and shall meet the following criteria:

Seed	% Weight
Red Fescue	50%
Sheep Fescue	25%
Red Top	5%
White Clover	10%
Annual Rye	10%

Temporary Seed Mix shall be used between 9/16 and 5/14 and shall meet the following criteria:

Seed	% Weight	% Germination
Winter Rye	80% Minimum	85 Min.
Red Fescue (Creeping)	4 Min.	80 Min.
Perennial Rye Grass	3 Min.	90 Min.
Red Clover	3 Min.	90 Min.
Other Crop Grass	0.5 Max.	
Noxious Weed Seed	1.0 Max.	
Inert Matter	1.0 Max.	

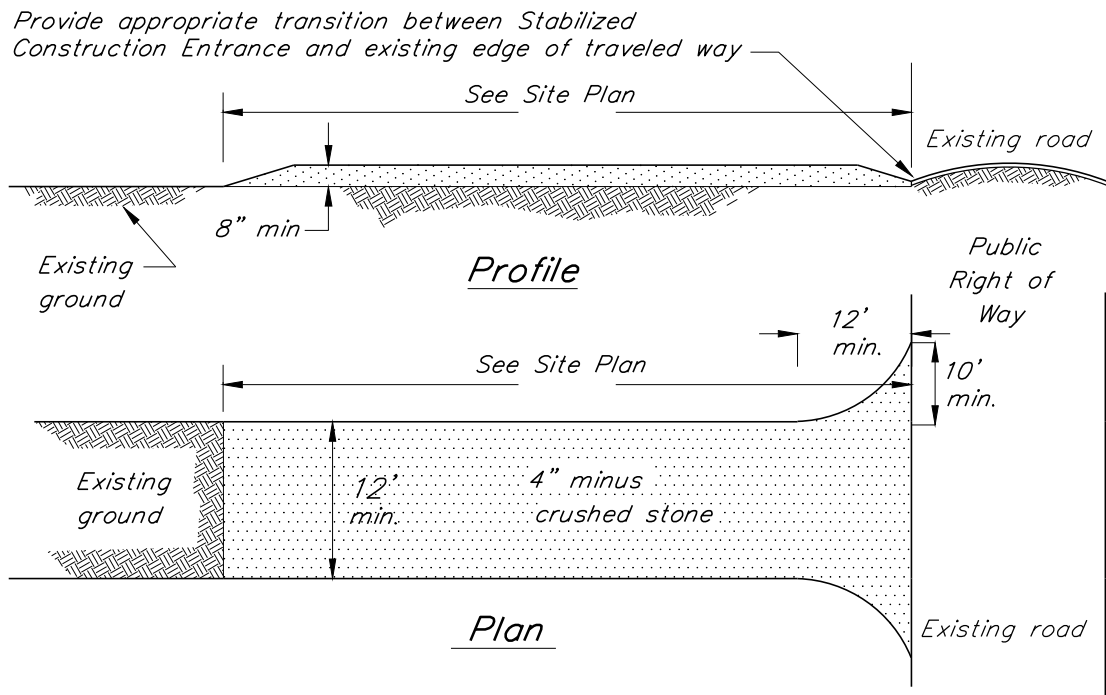
Seeding Specifications



Silt fence spacing chart	
Slope	silt fence spacing
5% to 10%	50 ft. or less
10% to 20%	25 ft. or less
> 20%	15 ft. or less

Typical Temporary Silt Fence

N.T.S.



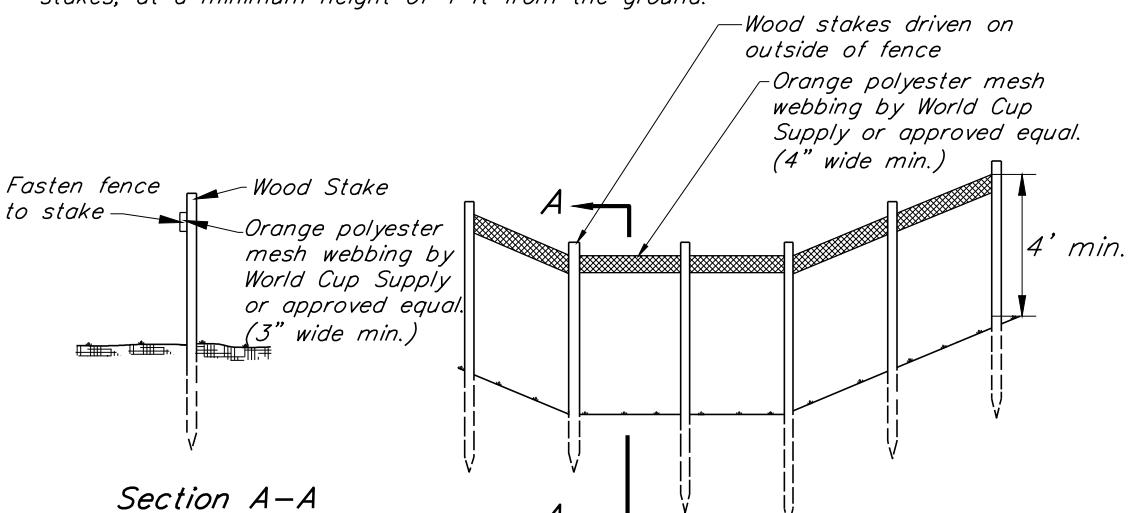
Stabilized Construction Entrance

Notes:

1. Contractor shall stabilized construction entrance as required to prevent tracking of sediment off-site.
2. Contractor to use Mirafi 500x under stone for temporary construction roads.
3. Crushed stone shall be added or replaced when 80% of the voids are filled with sediment.
4. Stone size shall be 1-4".
5. All surface water flowing or diverted toward construction entrance shall be piped beneath entrance if piping is impractical, a mountable berm with 5:1 slopes is allowed.

NOTES:

1. Acceptable EPSC Measure details are provided below.
2. At a minimum, EPSC measures meet VT DEC Standards and Specifications for Erosion Prevention and Sediment Control or previously approved interchangeable practices.
3. Limits of disturbance (or "construction demarcation") shall be installed prior to any earth disturbing activities.
4. Barrier Tape/Rope: for use where proposed disturbance borders non-wooded, vegetated areas more than 100 ft from the nearest water resource (stream, brook, lake, pond, wetland, etc.). Barrier tape is high visibility fiber-glass tape, minimum 3" in width commonly used in ski areas for demarcating closed areas. Barrier tape and rope should be attached to stakes, at a minimum height of 4 ft from the ground.

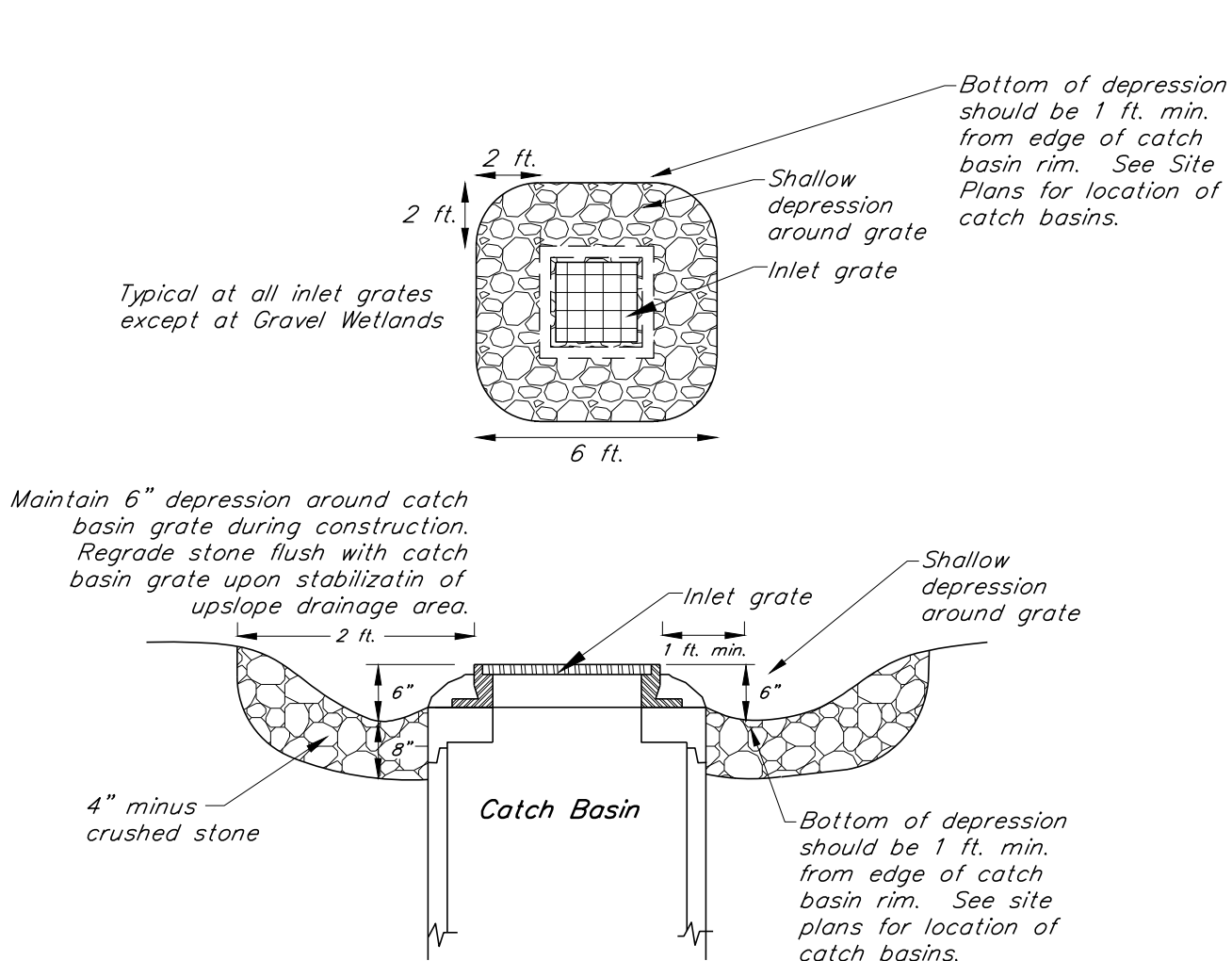


Typical Construction Limit Barrier

N.T.S.

NOTES:

1. Minimum 1 to 2 rows of mesh barrier tape to be installed along construction perimeter.
2. Each row of barrier tape to be 4" wide minimum.
3. Barrier tape to be orange.
4. Secure barrier tape to stakes or existing tree trunks with bottom row at 4' distance from ground surface (minimum).
5. Maintain and replace as needed. Remove at completion of project per OSPC.
6. In event the OSPC determines barrier tape is not sufficient, replace with orange construction fence or snow fence.



Catch Basin Inlet Protection

N.T.S.

FEEDING CHAMPLAIN VALLEY

228 North Winooski Avenue
Burlington, Vermont



CITY SUBMITTAL

OWNER/APPLICANT:

Champlain Housing Trust
88 King Street
Burlington, Vermont 05401

PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
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STAMP:

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

EPSC DETAILS

DATE ISSUED: 06/17/24

DRAWN BY: SWH

CHECKED BY: DMR

PROJECT NO.: 24156

SCALE: N.T.S.

DRAWING NO.:

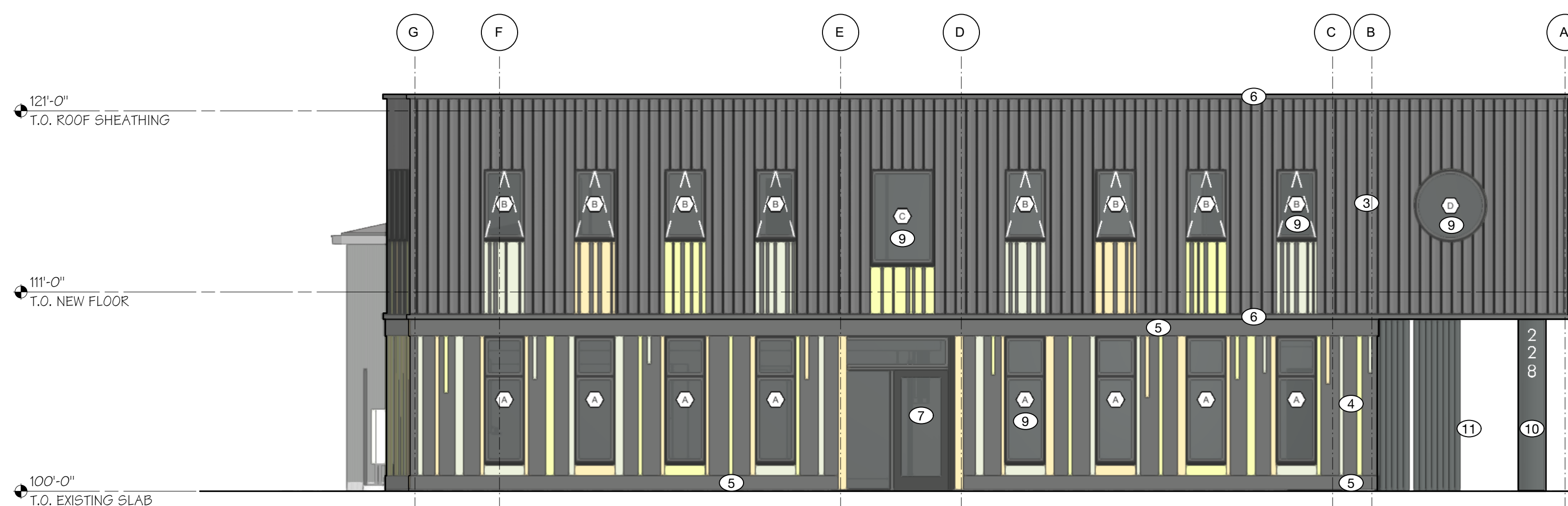
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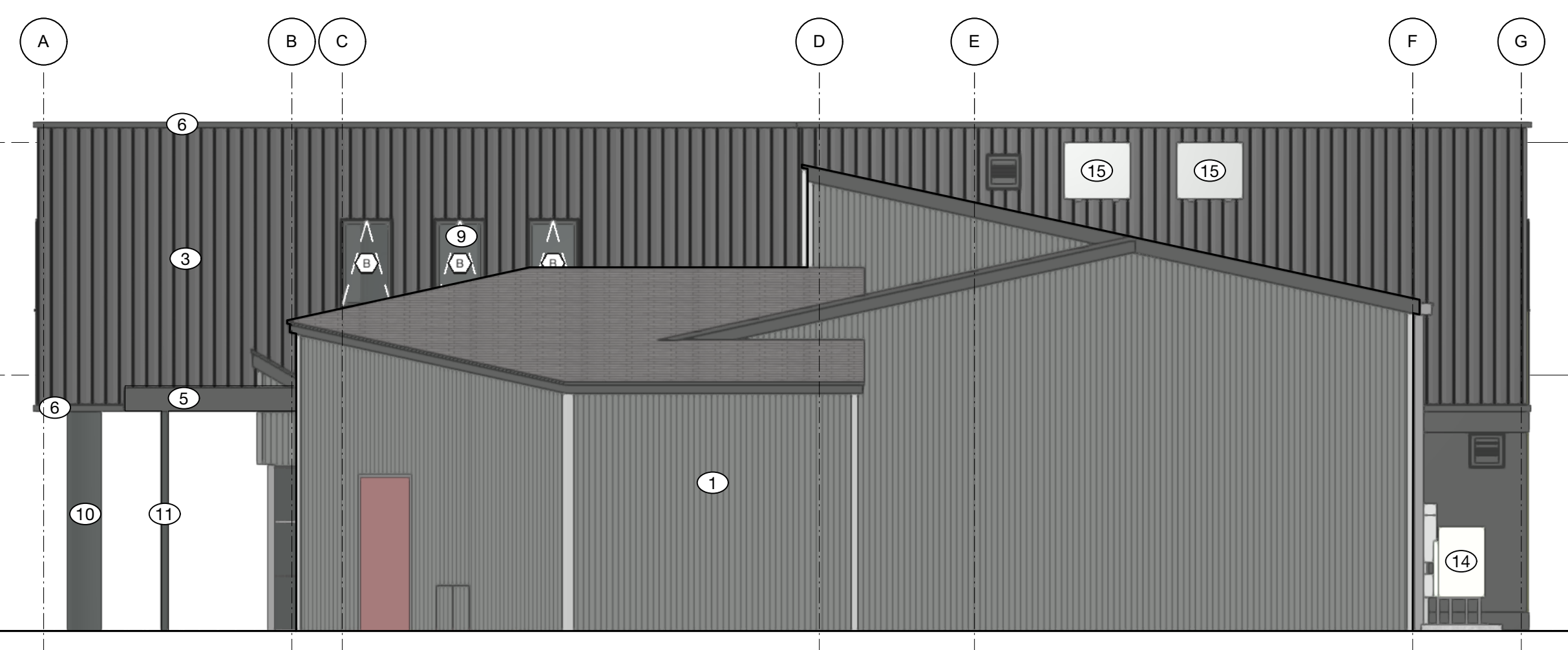
DWG NAME: CRC Basin.dwg



29 SOUTH ELEVATION
Scale: 3/16" = 1'-0"



27 WEST ELEVATION
Scale: 3/16" = 1'-0"



28 EAST ELEVATION
Scale: 3/16" = 1'-0"



15 NORTH ELEVATION
Scale: 3/16" = 1'-0"

ELEVATION MATERIALS:				
1 EXISTING CORRUGATED METAL	4 ENGINEERED WOOD, BOARD & BATTEN	7 ALUMINUM CLAD WOOD DOOR, SIDELITES, TRANSOM	10 CONCRETE PIER	13 SALVAGED EXISTING METAL SIDING
2 EXISTING FIBER CEMENT PANEL	5 SYNTHETIC TRIM	8 FIBERGLASS DOOR IN COMPOSITE FRAME	11 TUBE STEEL COLUMNS	14 EXISTING MEP EQUIPMENT
3 ENGINEERED WOOD, REVERSE BOARD & BATTEN	6 METAL TRIM	9 FIBERGLASS WINDOWS	12 NEW ASPHALT SHINGLE	15 NEW MEP EQUIPMENT

FEEDING CHAMPLAIN VALLEY
BURLINGTON, VERMONT

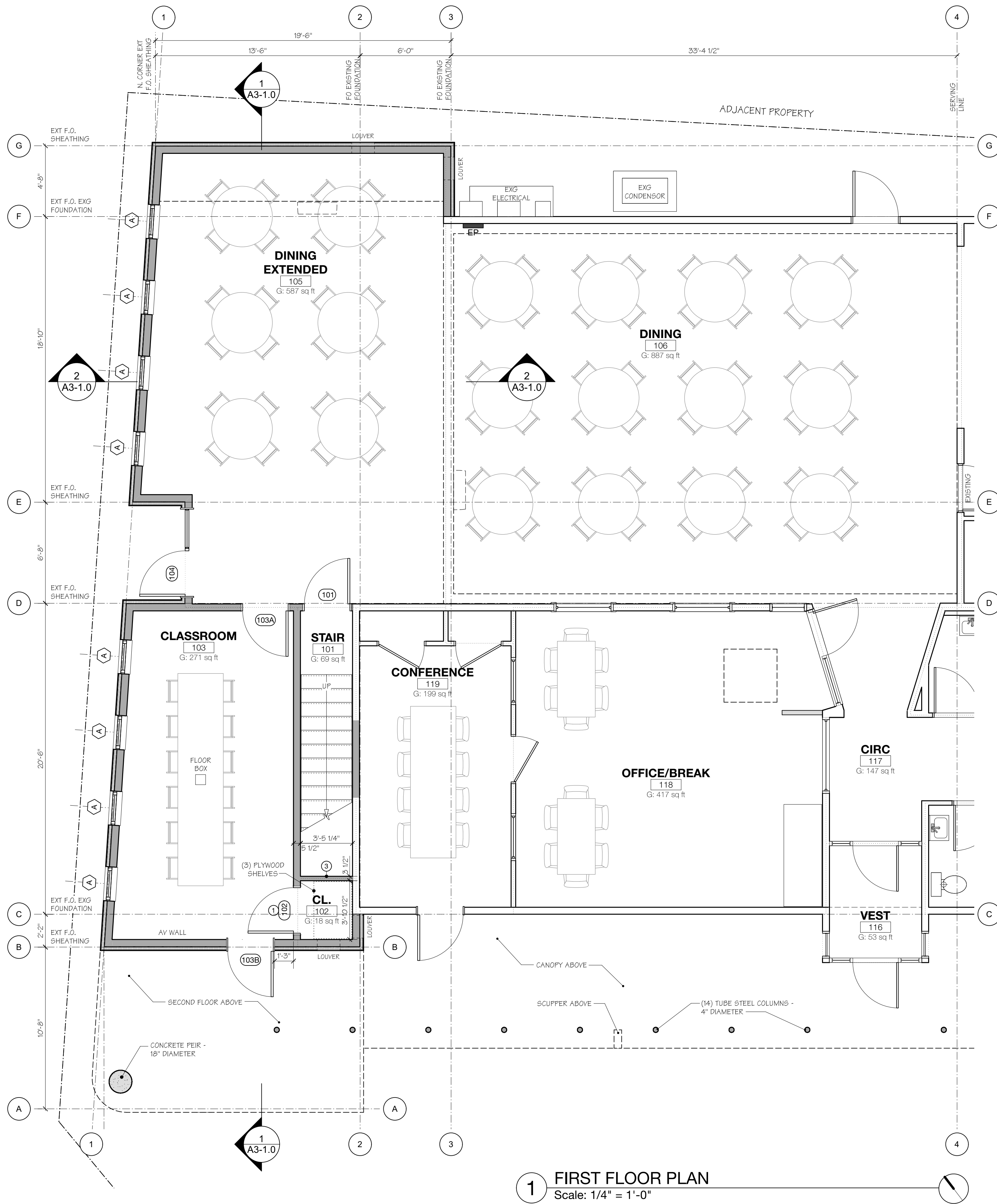
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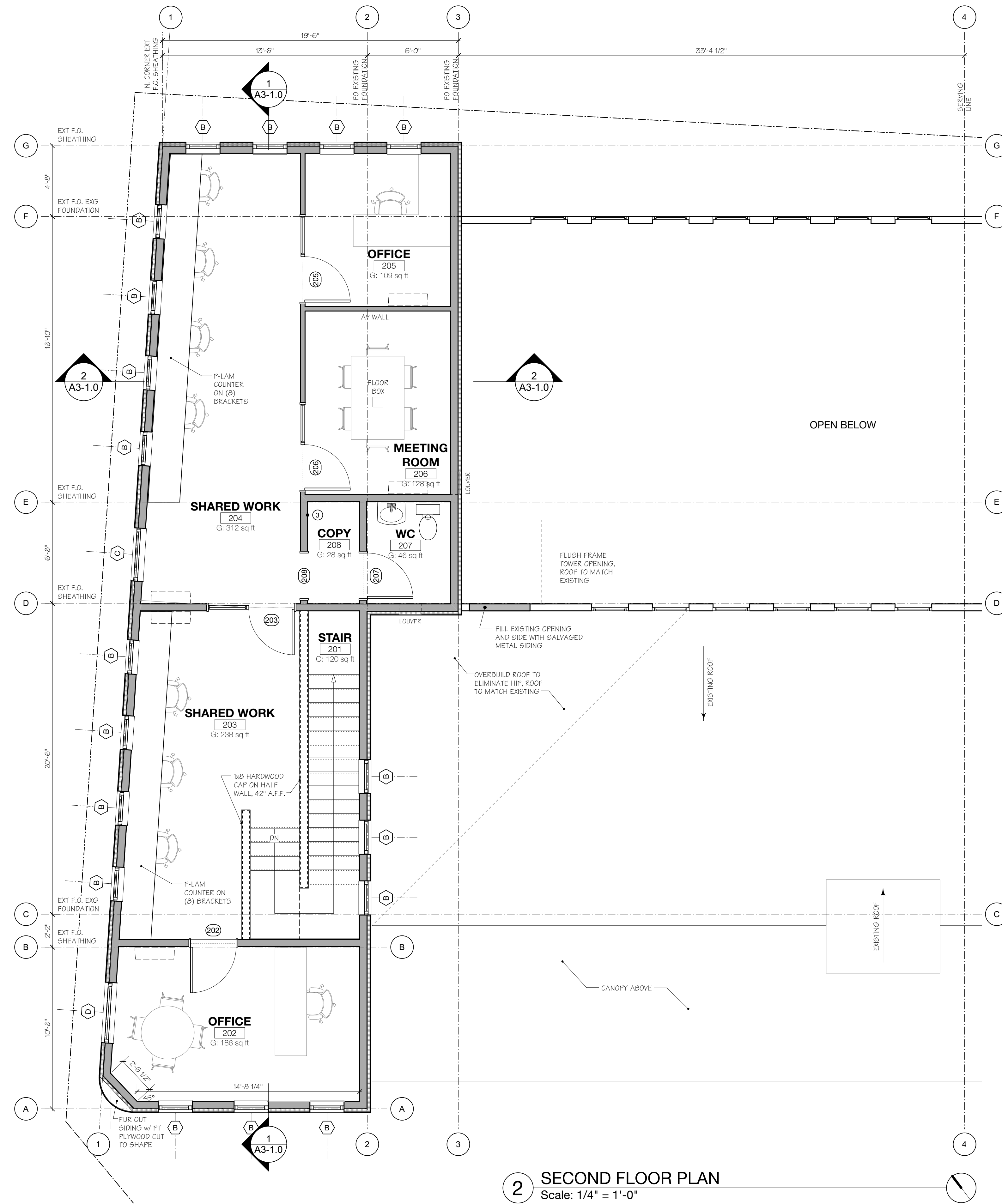
Duncan
Wisniewski
ARCHITECTURE
255 SOUTH CHAMPLAIN STREET
BURLINGTON, VERMONT 05401
T: 802.864.6693

DATE: 06.17.2024
DRAWN: EAM

P5



1 FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"



2 SECOND FLOOR PLAN
Scale: 1/4" = 1'-0"

FEEDING CHAMPLAIN VALLEY

BURLINGTON, VERMONT

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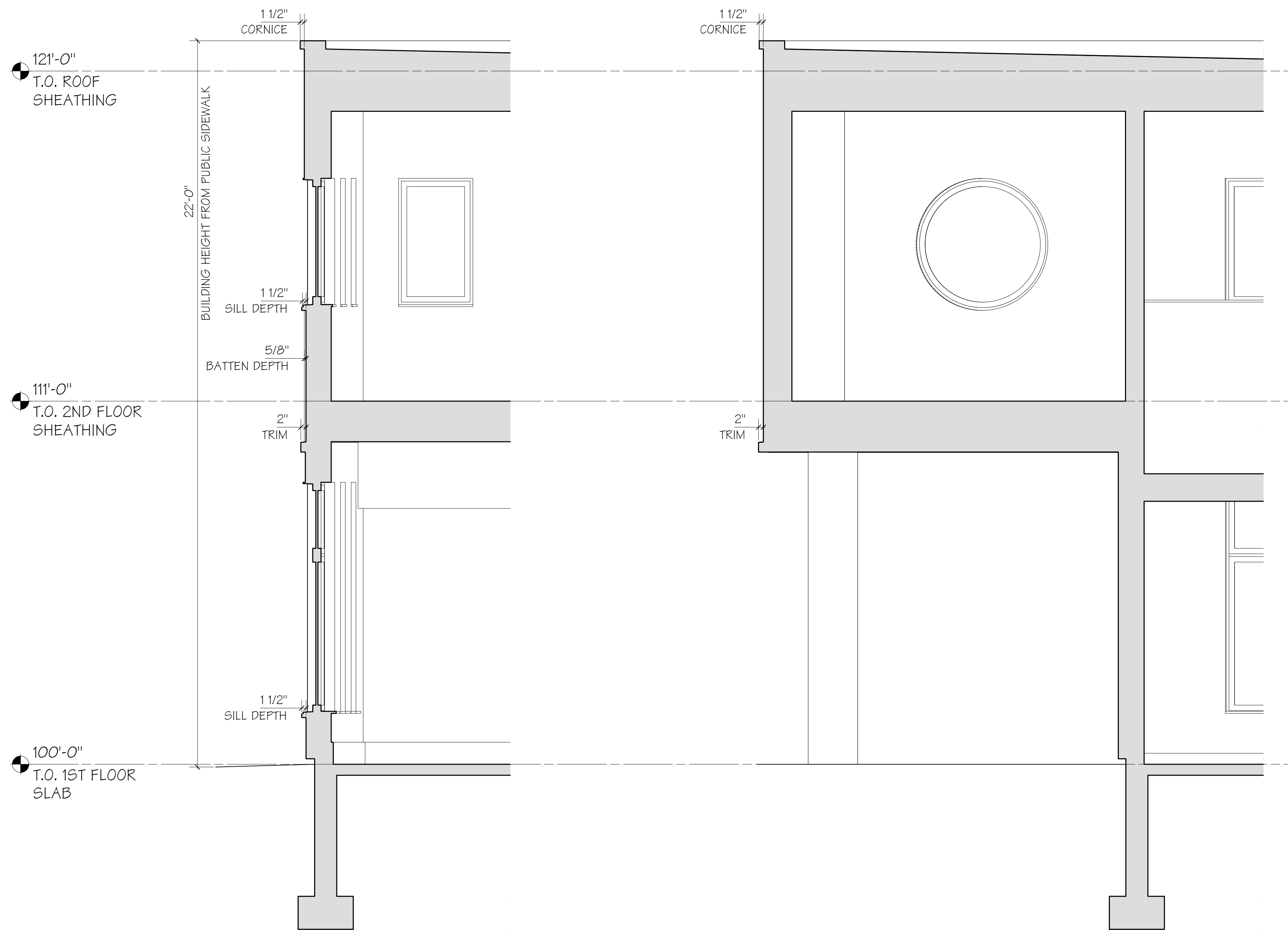
PROGRESS SET

Duncan
Wisniewski
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255 SOUTH CHAMPLAIN STREET
BURLINGTON, VERMONT 05401
T: 802.864.6693

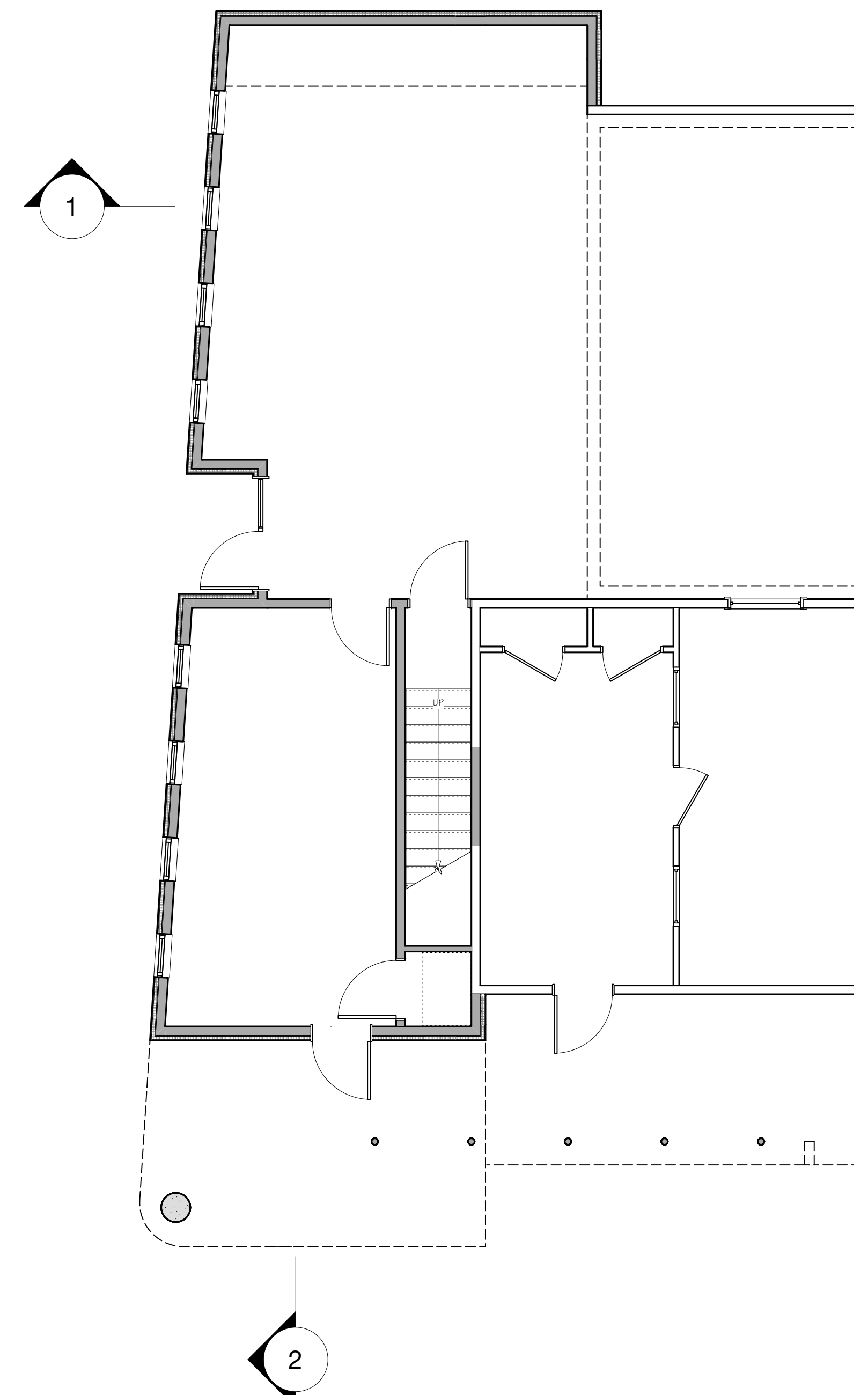
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A1-1.0



1 TRANSVERSE WALL SECTION
Scale: 1/2" = 1'-0"

2 LONGITUDINAL WALL SECTION
Scale: 1/2" = 1'-0"



3 WALL SECTION KEY
Scale: 3/16" = 1'-0"

FEEDING CHAMPLAIN VALLEY

BURLINGTON, VERMONT

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255 SOUTH CHAMPLAIN STREET
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T: 802.864.6693

DATE: 06.17.2024
DRAWN: EAM

P6

228 North Winooski Avenue
Burlington, Vermont



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CONSULTING ENGINEERS

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Colchester, Vermont 05446

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www.krebsandlansing.com

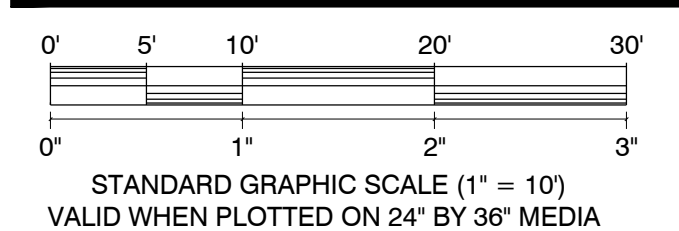
OWNER/APPLICANT:

Feeding Chittenden
228 North Winooski Avenue
Burlington, Vermont 05401

PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
Zoning: Neighborhood Mixed Use

STAMP

[illegible]

DRAWING TITLE

OVERALL
SITE PLAN

DATE ISSUED: 03/26/24

DRAWN BY: CME

CHECKED BY: DMD

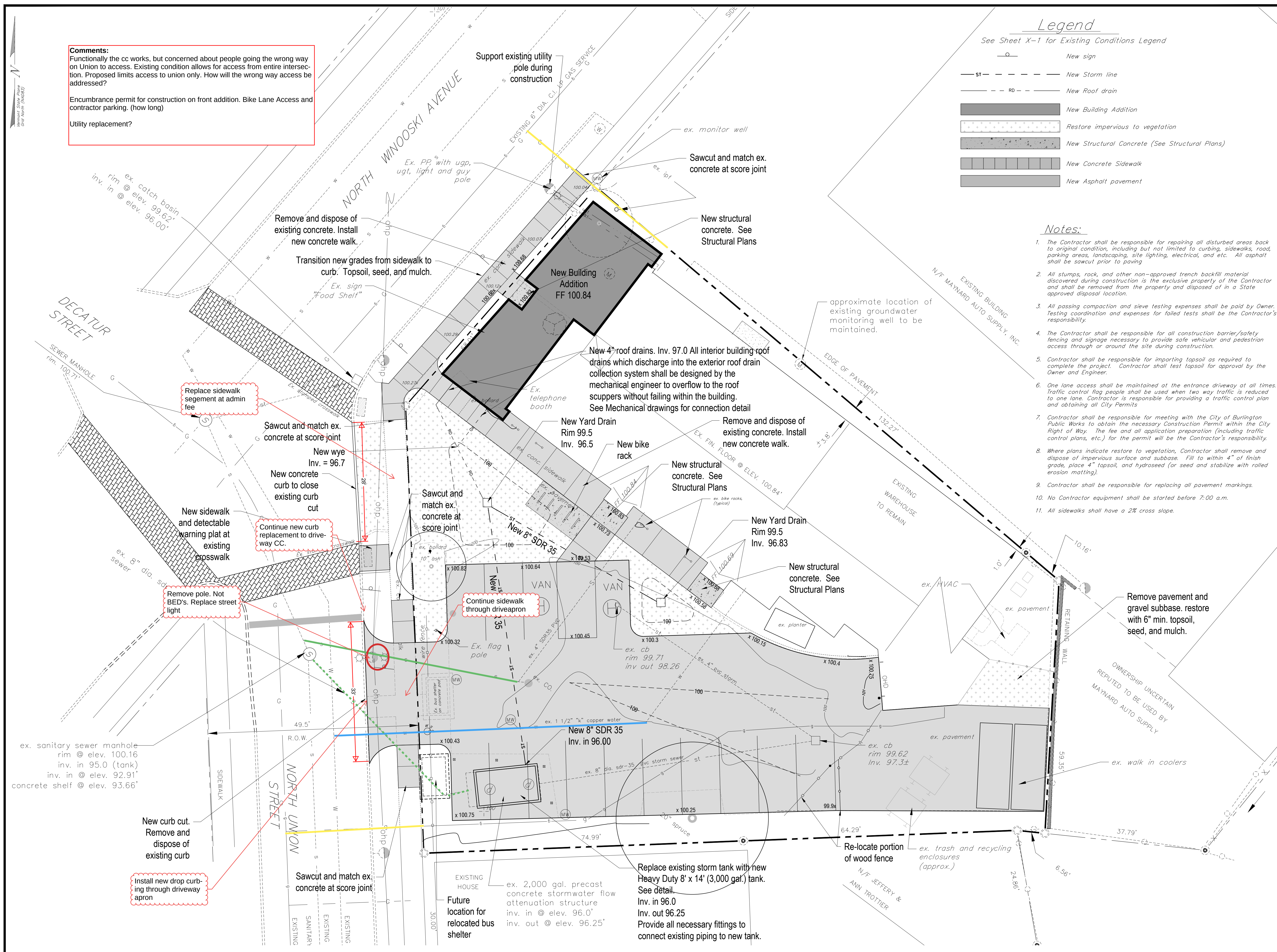
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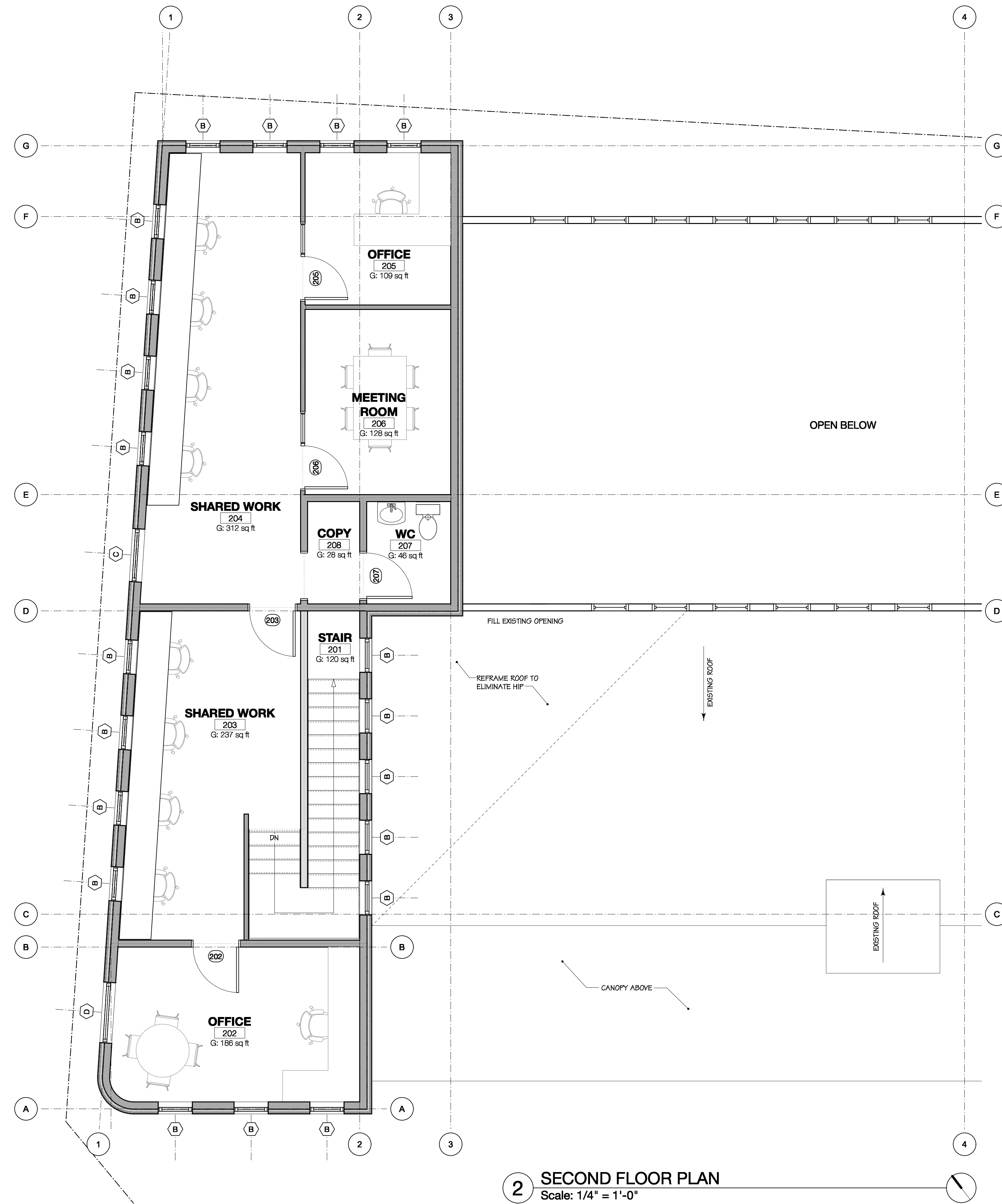
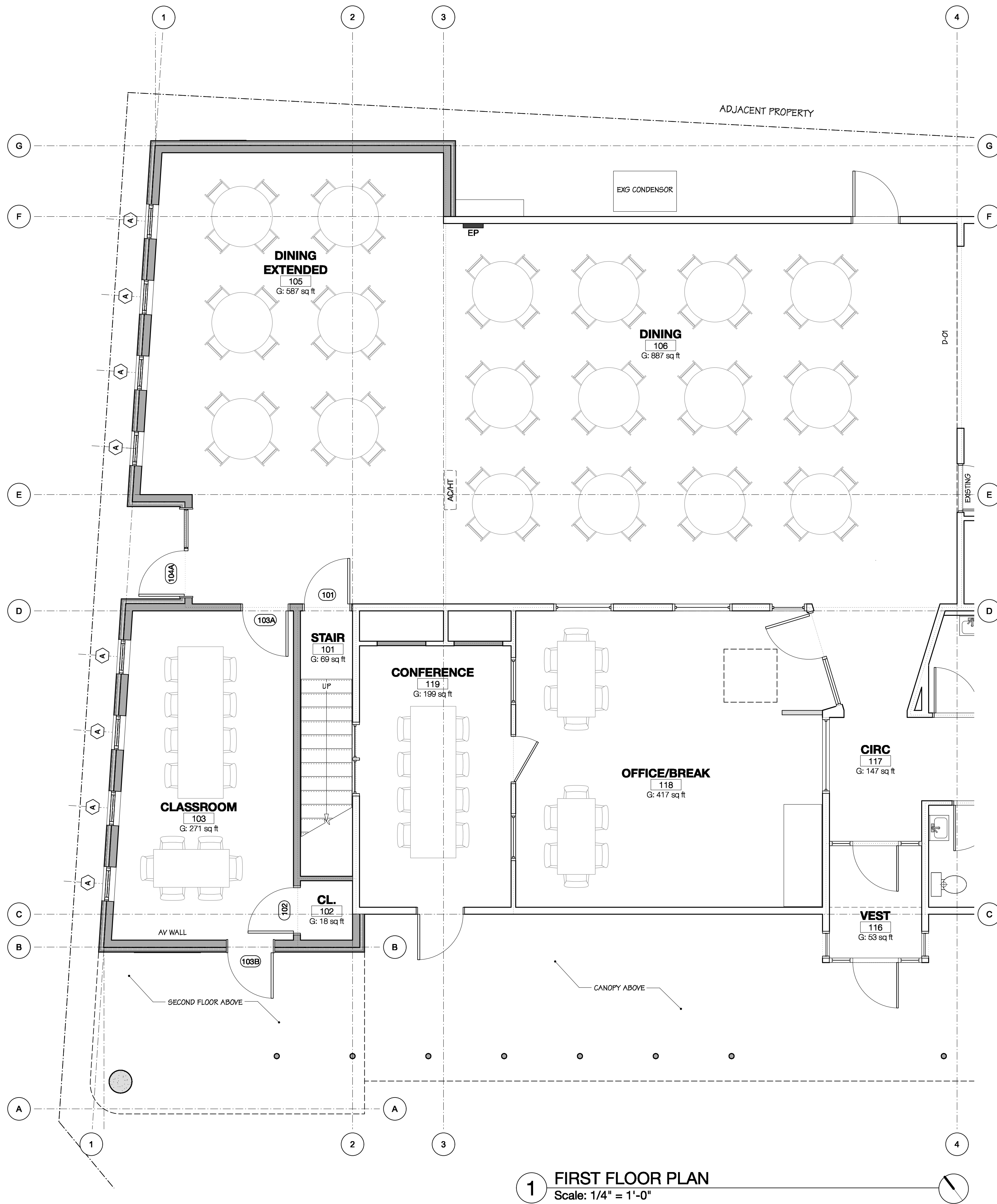
PROJECT NO.:

SCALE: 1 = 10

C-1

DWG NAME: CRC Board.dwg





FEEDING CHAMPLAIN VALLEY

BURLINGTON, VERMONT

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PROGRESS DRAWINGS

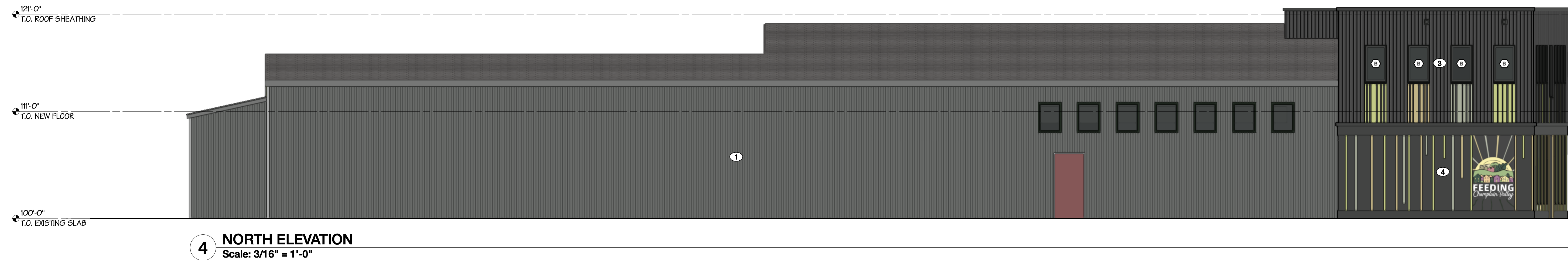
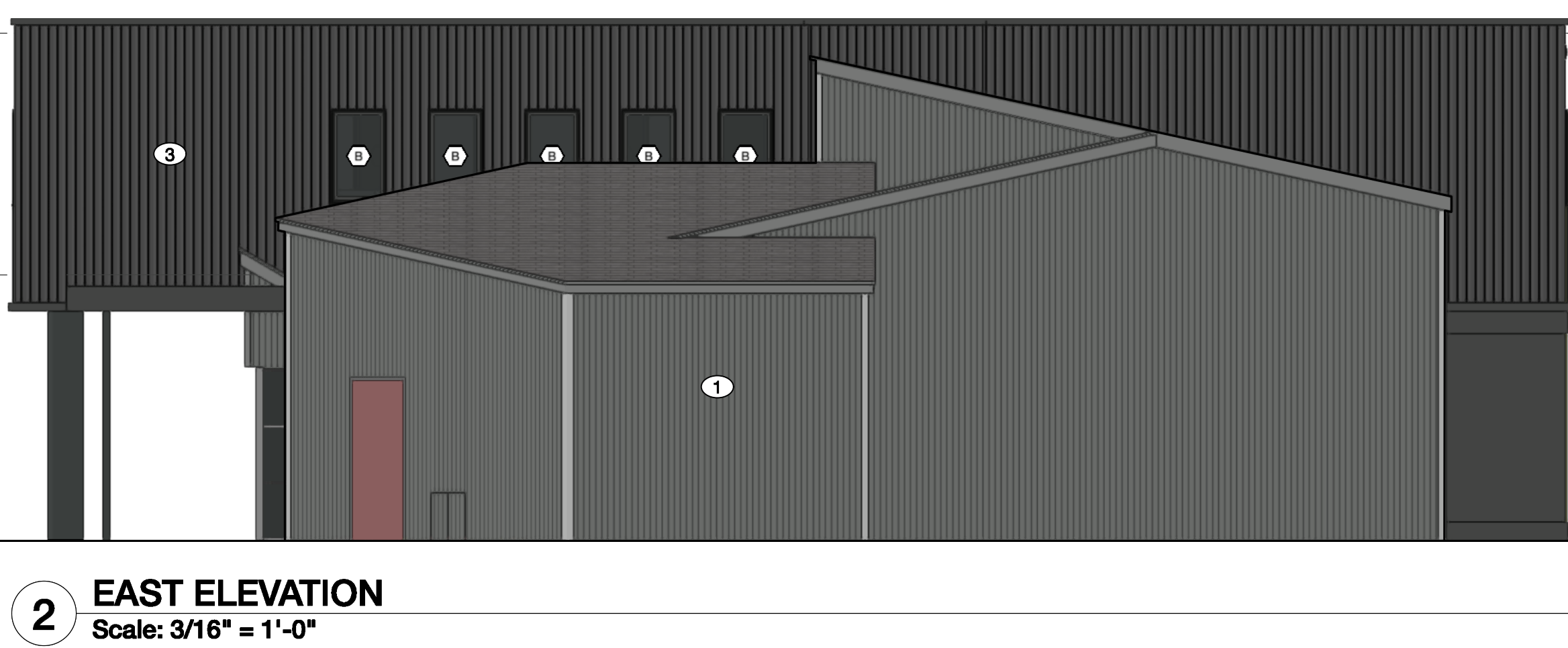
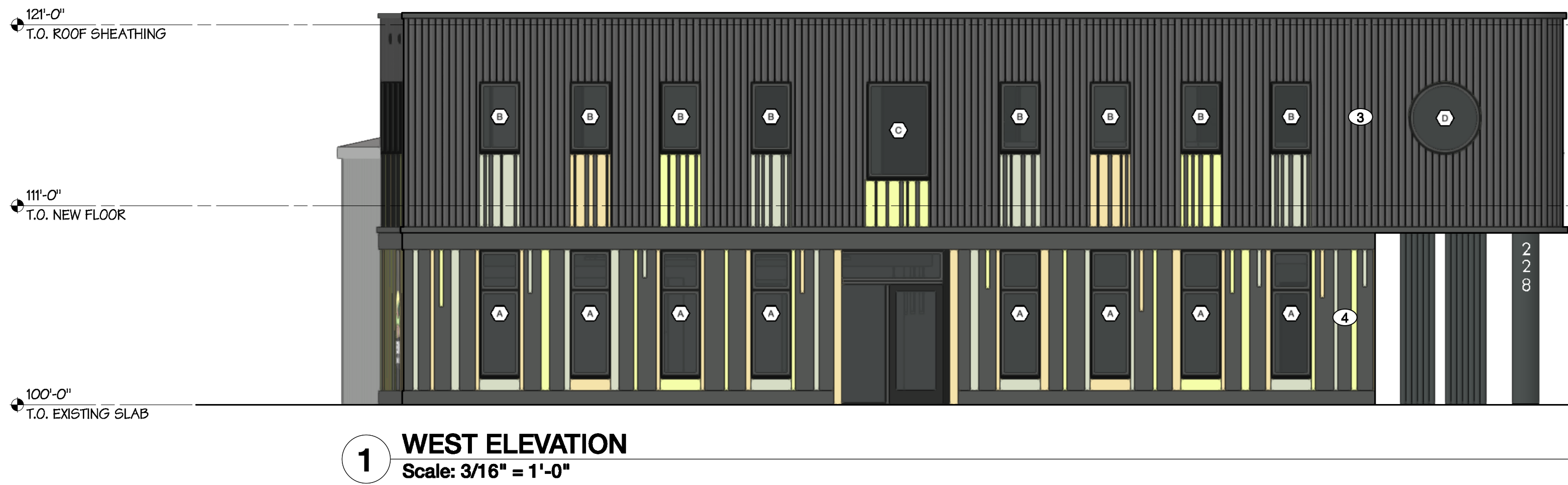
Duncan
Wisniewski
ARCHITECTURE

255 SOUTH CHAMPLAIN STREET
BURLINGTON, VERMONT 05401
T: 802.864.8693

DATE: 04.03.2024
DRAWN: EAM

A1-1.0

- ELEVATION MATERIALS:**
- ① EXISTING CORRUGATED METAL
 - ② EXISTING FIBER CEMENT PANEL
 - ③ ENGINEERED WOOD, VERTICAL LAP
 - ④ ENGINEERED WOOD, BOARD & BATTEN



FEEDING CHAMPLAIN VALLEY

BURLINGTON, VERMONT

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PROGRESS DRAWINGS

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255 SOUTH CHAMPLAIN STREET
BURLINGTON, VERMONT 05401
T: 802.864.6693

DATE: 04.03.2024
DRAWN: EAM

A2-1.0



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.0 fc	7.0 fc	0.0 fc	N/A	N/A

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage
D1		7	THE KIRLIN COMPANY	LRC-05SDN-1000L-FLR-WFL	FABRICATED METAL HOUSING, EXTRUDED BLACK FINISHED FINNED METAL HEAT SINK, 1 CIRCUIT BOARD WITH ONE LED, MOLDED WHITE PLASTIC LED SURROUND, FABRICATED SEMI-SPECULAR METAL OPTIC MOUNTING RING, MOLDED TIERED MULTI-FACETED WHITE PLASTIC UPPER REFLECTOR, SPUN WHITE PAINTED METAL REFLECTOR/TRIM WITH CLEAR MICRO-PRISMATIC FLAT GLASS LENS OVER UPPER APERTURE, LENS PRISMS UP.	ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP POSITION.	1	LRC-05SDN-3000L-FLR-WFL.ies	1000	1	0.8	9.9
W1		2	Lithonia Lighting	WDGE2 LED P2 40K 80CRI TFTM	WDGE2 LED WITH P2 - PERFORMANCE PACKAGE, 4000K, 80CRI, TYPE FORWARD THROW MEDIUM OPTIC		1	WDGE2_LED_P2_40K_80CRI_TFTM.ies	2030	1	0.9	18.9815
SL1		2	Lithonia Lighting	DSX0 LED P1 40K 80CRI BLC4	D-Series Size 0 Area Luminaire P1 Performance Package 4000K CCT 80 CRI Type 4 Extreme Backlight Control		1	DSX0_LED_P1_40K_80CRI_BLC4.ies	3303	1	0.9	33.21
BL		0	Lithonia Lighting	DSXB LED 16C 350 40K SYM	D-SERIES BOLLARD WITH 16 4000K LEDS OPERATED AT 350mA AND SYMMETRIC DISTRIBUTION		1	DSXB_LED_16C_350_40K_SYM.ies	1674	1	0.9	20
PL		4	Hydrel	HSL13 6LONG L LED WHT30K MVOLT	Suface mount step light		1	HSL13_6LONG_L_LED_WHT30K_MVOLT.ies	190	1	1	5.34
SL2		1	Lithonia Lighting	DSX0 LED P1 40K 80CRI TSW	D-Series Size 0 Area Luminaire P1 Performance Package 4000K CCT 80 CRI Type 5 Wide		1	DSX0_LED_P1_40K_80CRI_TSW.ies	4665	1	0.9	33.21

	New Building Addition
	Restore impervious to vegetation
	New Structural Concrete (See Structural Plans)
	New Concrete Sidewalk
	New Asphalt pavement

Notes:

- The Contractor shall be responsible for repairing all disturbed areas back to original condition, including but not limited to curbing, sidewalks, road, parking areas, landscaping, site lighting, electrical, and etc. All asphalt shall be sawcut prior to paving.
- All slumps, rock, and other non-approved trench backfill material discovered during construction is the exclusive property of the Contractor and shall be removed from the property and disposed of in a State approved disposal location.
- All passing compaction and sieve testing expenses shall be paid by Owner. Testing coordination and expenses for failed tests shall be the Contractor's responsibility.
- The Contractor shall be responsible for all construction barrier/safety fencing and signage necessary to provide safe vehicular and pedestrian access through or around the site during construction.
- Contractor shall be responsible for importing topsoil as required to complete the project. Contractor shall test topsoil for approval by the Owner and Engineer.
- One lane access shall be maintained at the entrance driveway at all times. Traffic control flag people shall be used when two way traffic is reduced to one lane. Contractor is responsible for providing a traffic control plan and obtaining all City Permits.
- Contractor shall be responsible for meeting with the City of Burlington Public Works to obtain the necessary Construction Permit within the City Right of Way. The fee and all application preparation (including traffic control plans, etc.) for the permit will be the Contractor's responsibility.
- Where plans indicate restore to vegetation, Contractor shall remove and dispose of impervious surface and subbase. Fill to within 4" of finish grade, place 4" topsoil, and hydroseed (or seed and stabilize with rolled erosion matting).
- Contractor shall be responsible for replacing all pavement markings.
- No Contractor equipment shall be started before 7:00 a.m.
- All sidewalks shall have a 2% cross slope.

228 North Winooski Avenue
Burlington, Vermont**KREBS & LANSING**
CONSULTING ENGINEERS
164 Main Street, Suite 201
Colchester, Vermont 05446
P: (802) 878-0375
www.krebsdandlansing.com

Concept Development

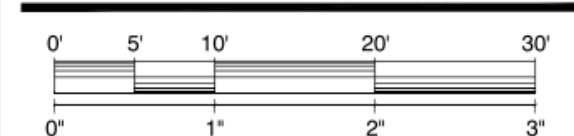
OWNER/APPLICANT:

Feeding Chittenden
228 North Winooski Avenue
Burlington, Vermont 05401

PROPERTY INFORMATION:

Address: 228 North Winooski Avenue
Parcel ID: 044-3-162-000
SPAN: 114-035-15139
Area: 0.39 Acres
Zoning: Neighborhood Mixed Use

STAMP:

STANDARD GRAPHIC SCALE (1" = 10')
VALID WHEN PLOTTED ON 24" BY 36" MEDIA

REV. NO.	REVISIONS/COMMENTS	DATE

DRAWING TITLE:

OVERALL
SITE PLAN

DATE ISSUED: 03/26/24

DRAWN BY: SWH

CHECKED BY: DMR

PROJECT NO.: 24156

SCALE: 1" = 10'

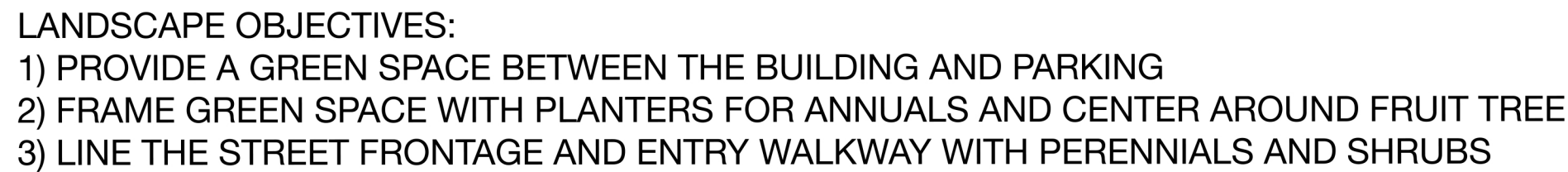
DRAWING NO.:

REV. NO.:

C-1

DWG. NAME: CFC_Basis.dwg

Plan View
Scale: 1" = 12ft



PRELIMINARY - NOT FOR CONSTRUCTION



D-Series LED Bollard



d^{series}

Specifications

Diameter: 8" Round
(20.3 cm)

Height: 42"
(106.7 cm)

Weight (max): 27 lbs
(12.25 kg)



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The D-Series LED Bollard is a stylish, energy-saving, long-life solution designed to perform the way a bollard should—with zero uplight. An optical leap forward, this full cut-off luminaire will meet the most stringent of lighting codes. The D-Series LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

Ordering Information

EXAMPLE: DSXB LED 16C 700 40K SYM MVOLT DDBXD

DSXB LED										
Series	LEDs	Drive current		Color temperature		Distribution	Voltage	Control options	Other options	Finish <i>(required)</i>
DSXB LED	Asymmetric 12C 12 LEDs ¹	350	350 mA	30K	3000 K	ASY Asymmetric ¹	MVOLT ⁵	Shipped installed	Shipped installed	DWHXD White
		450	450 mA ^{3,4}	40K	4000 K	SYM Symmetric ²	120 ⁵	PE Photoelectric cell, button type	SF Single fuse (120, 277, 347V) ^{4,7}	DNAXD Natural aluminum
		530	530 mA	50K	5000 K		208 ⁵		DF Double fuse (208, 240V) ^{4,7}	DDBXD Dark bronze
	Symmetric 16C 16 LEDs ²	700	700 mA	AMBPC Amber phosphor converted			240 ⁵	DMG 00-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)	H24 24" overall height	DBLXD Black
				AMBLW Amber limited wavelength ^{3,4}			277 ⁵		H30 30" overall height	DDBTXD Textured dark bronze
					347 ⁴		H36 36" overall height		DBLBXD Textured black	
							FG Ground-fault festoon outlet		DNATXD Textured natural aluminum	
							L/AB Without anchor bolts			
							L/AB4 4-bolt retrofit base without anchor bolts ⁸	DWHGXD Textured white		

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for DSXB⁸

NOTES

- 1 Only available in the 12C, ASY version.
- 2 Only available in the 16C, SYM version.
- 3 Only available with 450 AMBLW version.
- 4 Not available with ELCW.
- 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- 6 Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- 7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- 8 MRAB U not available with L/AB4 option.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com
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Performance Data

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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Asymmetric (12 LEDs)	350	16	1,194	75	1	0	1	1,283	80	1	0	1	1,291	81	1	0	1					
	530	22	1,719	78	1	0	1	1,847	84	1	0	1	1,859	85	1	0	1					
	700	31	2,173	70	1	0	1	2,335	75	1	0	1	2,349	76	1	0	1					
	Amber 450	16																348	22	1	0	1
Symmetric (16 LEDs)	350	20	1,558	78	1	0	0	1,674	84	1	0	0	1,685	84	1	0	0					
	530	28	2,232	80	2	0	1	2,397	86	2	0	1	2,412	86	2	0	1					
	700	39	2,802	72	2	0	1	3,009	77	2	0	1	3,028	78	2	0	1					
	Amber 450	20																419	21	1	0	1

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

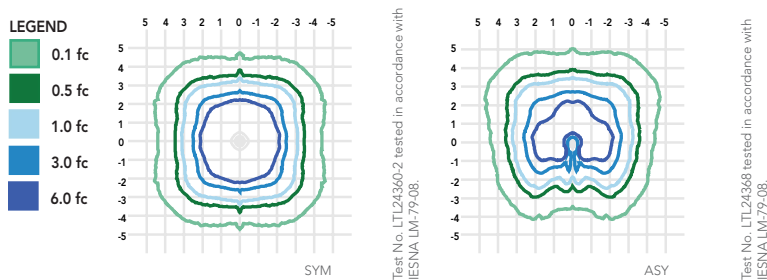
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Bollard homepage](#).

Isofootcandle plots for the DSXB LED 700 40K. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE

The rugged construction and maintenance-free performance of the D-Series LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

CONSTRUCTION

One-piece 8-inch-round extruded aluminum shaft with thick side walls for extreme durability, and die-cast aluminum reflector and top cap. Die-cast aluminum mounting ring allows for easy leveling even in uneven areas and full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3-5/8" max. bolt circle template ensure stability. Overall height is 42" standard.

FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Two 0% uplight optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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.



CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Choice Series

Super Shallow 5-6" Downlight • COB LED

50,000+ Hours • Type IC • 1.0% Dimming, 0-10V

2 or 3 Step Binning • Wet Listed • LM-80 and LM-79 Certified

Specifications

Delivered System Performance

- Lumen Series: **Must Specify**

Type IC	Non-IC
-3000L	-4000L
-2500L	
-2000L	
-1500L	
-1000L	

- Select trim & beam distribution: see chart
- Select color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- 60,000 hour life, 50,000 in insulation

Thermal Management System

- Aluminum heat sink and components for cool operation, long life, and low maintenance

LED Driver - INTERNAL

- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR 1.0% dimming standard
- Voltage Options: **Must Specify**
- UNV: -120-277/50-60Hz; load insensitive
- 120: -120V input (50-60Hz); for -D6 only

Trim Assembly

- White self-flanged regressed trim with microprismatic lens (-FLR)
- Alternate white self-flanged flat trim with frosted microprismatic lens (-FLT)
- Alternate white self-flanged regressed trim with frosted microprismatic lens (-RDL)
- Optional colors and finishes available

Acrylic Enameled Aluminum Housing

- Rustproof: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- Only 2.75" deep for restricted or shallow plenums; Dynamic White options increase depth to 4³/₈"
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture

Outlet Box (Galvanized)

- UL Listed, 14GA, insulated, removable cover
- 1/2" and 3/4" knockouts
- Up to 4 #12 AWG through-branch conductors

Installation & Hardware

- Indoor/outdoor in ceilings up to 1 1/8" thick
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

UL, C-UL (Canada) & FCC Compliance

- UL Listed: wet, damp or dry locations, covered ceilings
- Type IC up to -3000L; Non-IC for -4000L
- FCC Part 15 certified for EMI/RFI emissions

LRC-05SDN

Trim Options



FIVE YEAR Limited Warranty

- Complete standard fixture

Declare.



Made in the USA
BAA Compliant



Natatorium
See Option -NAT



BioGard™
See Option -BG

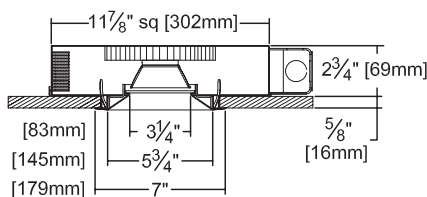


FCC Part 15
Certified



UL Listed
Wet, Damp, Dry

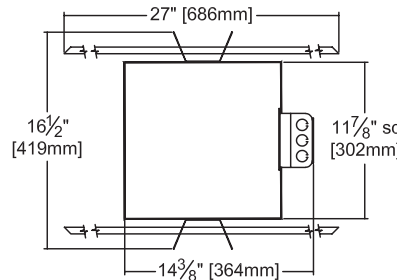
Dimensions



Ceiling Cut-Out

6 1/2" Dia.

Dynamic White options increase housing depth to 4³/₈"



Available Source Options

See page 2 for ordering configurations

SW

Static White
5 CCTs Available

TW

Tunable White

WD

Warm Dimming

Static White Options and Ordering Configuration

(Example: LRC-05SDN-3000L-UNV-FLR-NFL-30K-62T-FS)

Must Specify						Optional			
Model	Lumens	Volts	Trim	Beam	CCT [†] & CRI	Driver Options	Emergency Options	Trim Options	Other Options
LRC-05SDN									
	Non-IC	-UNV	-FLR	-FLR Only	80+ CRI*	(Blank): Standard 0-10V CCR 1.0% dim	(Blank): None	(Blank): Standard white enamel	(Blank): None
	-4000L	-120	-FLT	-NFL	-27K: 2700°K				
	Type IC		-RDL	-MFL	-30K: 3000°K	Consult Factory:	-EI: Remote emergency inverter for 100% rated lumens up to -3000L; 90+ minutes; N/A for options -FS	Trim Finishes	Mounting
	-3000L			-WFL	-35K: 3500°K	-D2: 0-10V 0.1% dim		-35T: Silver enamel trim	-79: Extension collar; ceilings up to 2" thick
	-2500L			-FLT & -RDL	-40K: 4000°K	-D3: DALI 1.0% dim		-37T: Dark bronze enamel trim	
	-2000L			-WFL	-50K: 5000°K	-D4: DALI 100-0.1% dim	-EI4: Remote emergency inverter for 100% rated lumens up to -4000L; CEC Compliant; 90+ minutes; N/A for options -FS	-38T: Black enamel trim	Other Options
	-1500L				*Note: Lumen Factor = 0.93 for -27K	-D5: DMX512A 0.1% dim		-62T: Clear specular trim instead (-FLR & -RDL only)	-99: Special modification; consult factory
	-1000L				90+ CRI**	-D6: Triac/ELV dim - 120 volt only	-ERH: Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; 90+ minutes	-94: Custom color; consult factory	-FS: Fused primary; One per fixture; N/A for Options -EI, -EI4
					-27K-HC: 2700°K	-ECO: Lutron EcoSys; Dim-to-black		-BG: BioGard™ anti-microbial white	
					-30K-HC: 3000°K			Other Trim Features	
					-35K-HC: 3500°K			-13: .125" clear poly. lens overlay	
					-40K-HC: 4000°K			-23: Frosted microprismatic lens (standard for -FLT & -RDL trims)	
					-50K-HC: 5000°K (-2500L or below)			-32: White trim extender; specify OD	
					**Note: Lumen Factor = 0.79 for -27K-HC; All Others = 0.85			-33: Decorative Glow Ring; see last page for details	
					† For 2 SDCM, consult factory			-45: Gasket between trim & ceiling	
								-46: Gasket between lens & trim	
								-DA: Diffuse acrylic lens	
								-DF: Electrically isolated trim	
								-WA: White acrylic lens	

Dynamic White Options and Ordering Configuration

(Example: LRC-05SDN-3000L-UNV-FLR-NFL-6527-TW8-62T-FS)

Dynamic White options increase housing depth to 4¾"

Must Specify						Optional			
Model	Lumens	Volts	Trim	Beam	CCT & CRI	Driver Options	Emergency Options	Trim Options	Other Options
LRC-05SDN									
	Type IC	-UNV	-FLR	-FLR Only	-6527: 6500°K - 2700°K range, 90+ CRI	-TW: Dual 0-10V Tunable White control with 0.1% dimming	(Blank): None	(Blank): Standard white enamel	(Blank): None
	-2000L		-FLT	-NFL	-4018: 4000°K - 1800°K range, 90+ CRI	-TW7: DALI dual drive 0.1% tunable white dimming driver instead	-EI: Remote emergency inverter for 100% rated lumen output; 90+ minutes; N/A for options -FS	Trim Finishes	Mounting
	-1500L		-RDL	-MFL	-3518: 3500°K - 1800°K range, 90+ CRI	-TW8: DALI DT8 dual drive 0.1% tunable white dimming driver instead	-ERH: Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; 90+ minutes	-35T: Silver enamel trim	-79: Extension collar; ceilings up to 2" thick
	-1000L			-WFL	-3018: 3000°K - 1800°K range, 90+ CRI	-WD: Warm Dimming 0-10V control with 0.1% dimming; N/A for Option -6527		-37T: Dark bronze enamel trim	Other Options
				-FLT & -RDL	-2718: 2700°K - 1800°K range, 90+ CRI	-WD7: DALI 0.1% warm dimming driver instead; N/A for Option -6527		-38T: Black enamel trim	-99: Special modification; consult factory
				-WFL				-62T: Clear specular trim instead (-FLR & -RDL only)	-FS: Fused primary; One per fixture; N/A for Option -EI
								-94: Custom color; consult factory	-NAT: Modified for natatorium use
								-BG: BioGard™ anti-microbial white	
								Other Trim Features	
								-13: .125" clear poly. lens overlay	
								-23: Frosted microprismatic lens (standard for -FLT & -RDL trims)	
								-32: White trim extender; specify OD	
								-33: Decorative Glow Ring; see last page for details	
								-45: Gasket between trim & ceiling	
								-46: Gasket between lens & trim	
								-DA: Diffuse acrylic lens	
								-DF: Electrically isolated trim	
								-WA: White acrylic lens	

CHOICE SERIES
APRIL 2024

Performance Factors - Static White

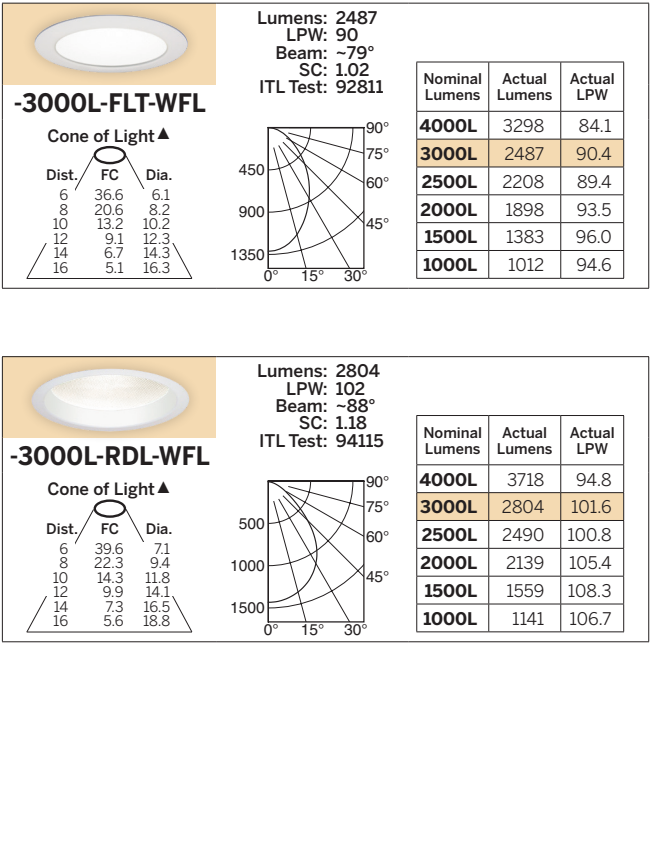
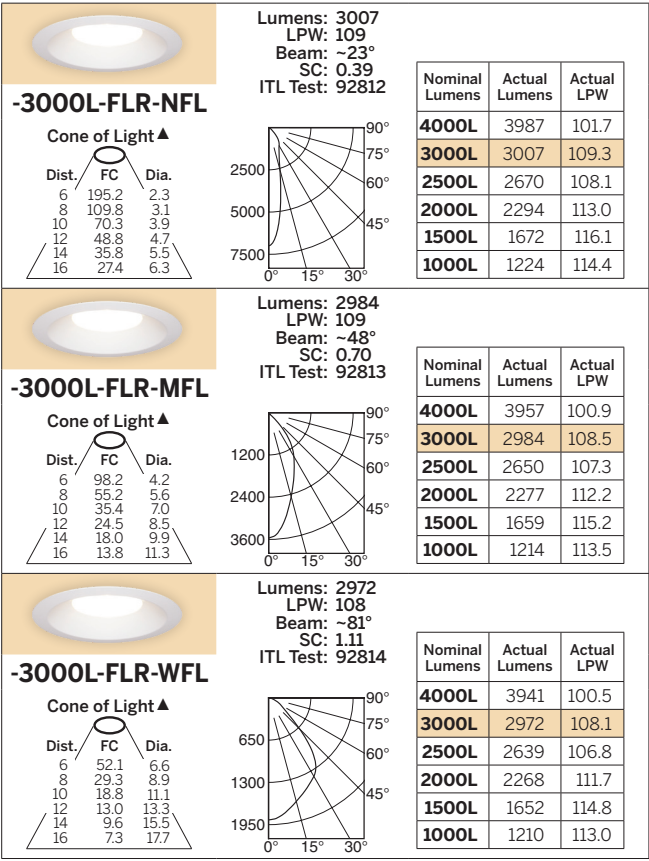
NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-4000L	1.33	39.2	0.93
-3000L	1.00	27.5	1.00
-2500L	0.89	24.7	0.99
-2000L	0.76	20.3	1.03
-1500L	0.56	14.4	1.06
-1000L	0.41	10.7	1.04

* See notes on page 2 for additional info on Lumen Factors

Photometry - Static White - Installed Complete Fixture

Photometry from I.T.L., Boulder, CO

LM-79 IESNA Certified Photometry from Independent Lab



LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

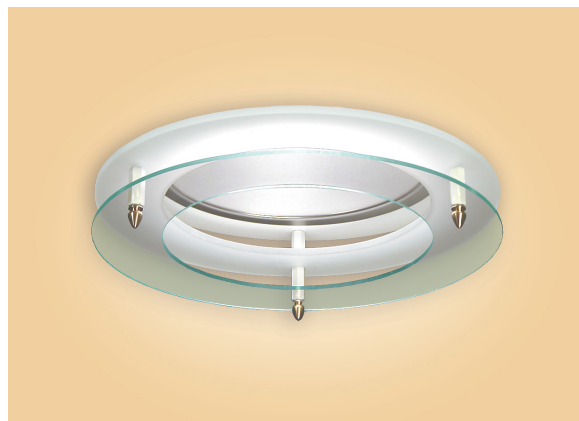
▲ Cone of Light Key
Dist. Distance (Ft.) from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION TO E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within five years of original shipment. Liability of manufacturer is limited to the foregoing and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

Classic Glow Rings: Option -33 for Choice Series

To order a Kirlin Glow Ring, begin by adding -33 to the product number. Then, configure your Glow Ring by selecting each of the 7 design elements listed below:

(**Example:** LRC-05SDN-3000L-UNV-FLR-NFL-30K-**33-GLM-1L-FRR-ROF-SIF-ROS-SIS**)



1. Ring Material
(choose one)



Glass (-GLM)



Acrylic (-ACM)

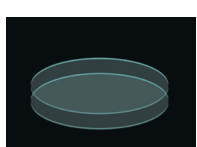


Custom (-CUM)

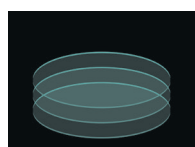
2. # of Rings
(choose one)



1 Ring (1L)

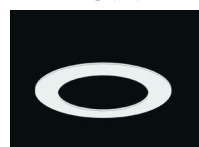


2 Rings (-2L)



3 Rings (-3L)

3. Ring Design
(choose one)



Frosted Ring (-FRR)



Clear Ring (-CRR)



Solid Disk (-SDR)

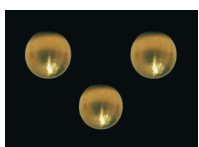


Frosted Center (-FCR)



Frosted Disk (-FDR)

4. Finial Design
(choose one)



Round (-ROF)



Knurled (-KNF)



Cone (-COF)

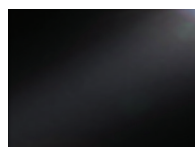
5. Finial Color
(choose one)



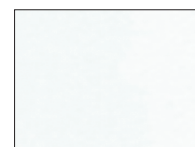
Brass (-BRF)



Silver (-SIF)



Black (-BLF)

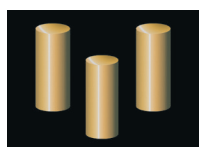


White (-WHF)

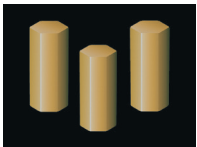


Custom (-CUF)

6. Standoff Design
(choose one)



Round (-ROS)



Hexagonal (-HOS)

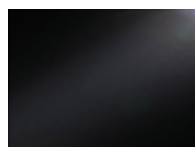
7. Standoff Color
(choose one)



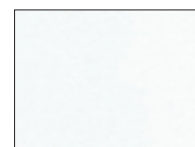
Brass (-BRS)



Silver (-SIS)



Black (-BLS)



White (-WHS)



Custom (-CFS)

ADVANCED DURABILITY FOR LONGER LASTING BEAUTY®





Featured: LP SmartSide Cedar Texture Lap, Panel & Trim, Board & Batten style



Featured: LP SmartSide ExpertFinish Cedar Texture Shakes, Trim, Fascia, Soffit & Accessories in Abyss Black



Featured: LP SmartSide Cedar Texture Lap, Soffit, Cedar Shake, Trim & Fascia

LP SmartSide®
ExpertFinish® TRIM & SIDING

LP SmartSide®
TRIM & SIDING

Product Guide & Specifications



Featured: LP SmartSide ExpertFinish Cedar Texture Trim & Lap Siding

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YOUR HOME BUILD ADVANTAGE

With over 20 years of successful performance, it's easy to see why the LP® SmartSide® brand is one of the fastest-growing brands for trim & siding products in the United States.

A PIONEER OF CHANGE

LP has redefined traditional building materials with treated engineered wood products that are designed to offer game-changing durability, beauty and workability. LP is a building industry leader in a category that's shaping the way homes, outdoor building structures and light commercial properties are being built.

See the innovation that goes into making LP SmartSide products at [YouTube.com/LPSmartSide](https://www.youtube.com/LPSmartSide).

Featured: LP SmartSide Lap, Panel & Trim, Board & Batten style, Trim & Fascia

BECAUSE STRENGTH IS MAKE OR BREAK



A NATURAL DEFENSE AGAINST NATURE

All LP® SmartSide® products are treated to the core through our proprietary LP® SmartGuard® manufacturing process. With a carefully formulated mix of resins, waxes and zinc borate, the SmartGuard process adds strength and helps LP SmartSide products offer protection against hail damage and moisture intrusion as well as resistance to termites and fungal decay.

See more about how LP SmartSide products are made at [YouTube.com/LPSmartSide](https://www.youtube.com/LPSmartSide)



FOUR COMPONENTS OF PROTECTION

LP's proprietary SmartGuard manufacturing process helps ensure that every LP SmartSide Trim & Siding product is treated with an advanced formula of adhesive resins, water-resistant waxes and zinc borate, after which a water-resistant, resin-saturated overlay is bonded to the product. The result: four components of protection against water damage, termites and fungal decay.



RESINS



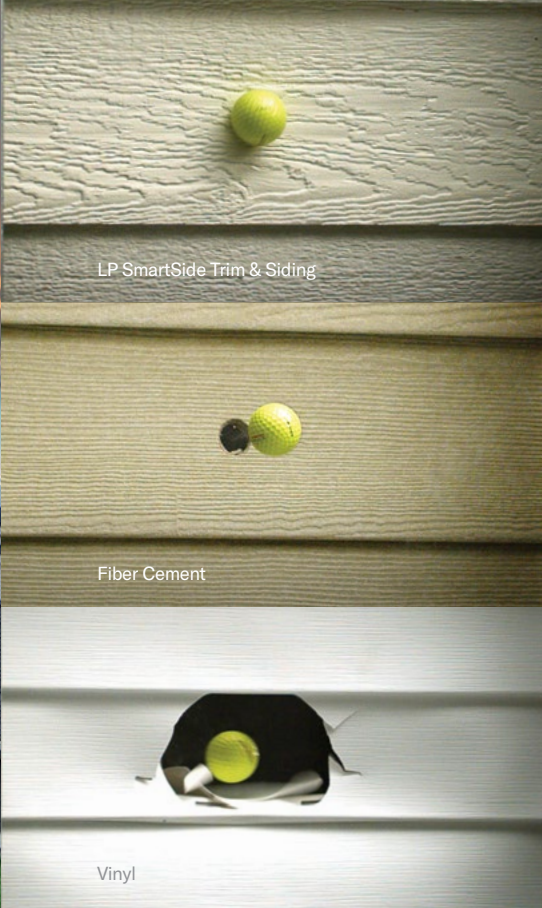
WAXES



ZINC BORATE



OVERLAY



OUTSTANDING IMPACT RESISTANCE

Testing shows that LP SmartSide products resist impact better than vinyl and fiber cement siding, which means they can stand up better against everything from everyday bumps to storm debris. And because it doesn't break as easily as fiber cement siding, LP SmartSide siding is also easier to handle and install—resulting in less waste.



HAIL AND WIND RESISTANCE

Third-party test results demonstrate that LP SmartSide lap siding resisted hail damage better than fiber cement and vinyl. In fact, the LP SmartSide warranty covers impacts from hail up to 1.75 inches in diameter. LP SmartSide lap siding is also designed to withstand tough storms with wind gusts of up to 200 miles per hour. Refer to ESR-1301 or PR-N124.



RESISTANCE TO FUNGAL DECAY AND TERMITES

Since 1996, LP SmartSide siding has undergone brutal testing in Hilo, Hawaii. An average temperature of more than 70 degrees, high levels of humidity, and almost 170 inches of annual rainfall make Hilo's climate the perfect breeding ground for termites, moisture and fungal decay. Yet our Exterior Exposure Program continues to validate that LP SmartSide siding performs over time.

BACKED BY STRONG WARRANTIES

LP has your back with an industry-leading transferable prorated limited warranty for LP SmartSide products: a 5-year 100% labor and material replacement warranty with a 50-year prorated limited warranty. LP® SmartSide® ExpertFinish® Trim & Siding products include an additional 15-year finish warranty.

For complete warranty details visit [LPCorp.com/Literature](https://www.LPCorp.com/Literature)



ENGINEERED FOR FASTER & EASIER INSTALLATIONS

LP® SmartSide® products help you build with greater efficiency on the jobsite. From longer lengths and advanced durability to reduced waste, the math is simple—using LP SmartSide products can help boost your bottom line so you can install siding on more homes in less time.



PUTTING LP SMARTSIDE PRODUCTS TO THE TEST

With RSMeans, a trusted third-party construction data company, we tested the productivity of LP SmartSide products and LP SmartSide ExpertFinish® products against comparable fiber cement products to find out which helps you install faster, cut waste, and reduce build cycles.

THE RESULTS

Primed LP SmartSide vs. Fiber Cement

- LP SmartSide lap installs faster
- LP SmartSide trim installs faster



LP SmartSide ExpertFinish vs. Prefinished Fiber Cement

- LP SmartSide ExpertFinish lap installs faster
- LP SmartSide ExpertFinish trim installs faster

THE BOTTOM LINE

With lighter weights, longer lengths and advanced durability, LP SmartSide Trim & Lap Siding installs faster than fiber cement trim & lap siding.

THE LP SMARTSIDE DIFFERENCE



Lighter Weights:
LP SmartSide lap siding weighs 45% less per foot than fiber cement lap siding.



Longer Lengths:
LP SmartSide siding's 16-foot lengths may lead to fewer seams and cuts, compared to fiber cement's 12-foot lengths.



Advanced Durability:
LP SmartSide siding is less prone to breakage than fiber cement, helping to reduce waste.

See more about how LP SmartSide products stack up to the competition at [LPCorp.com/Proven-Productivity](https://www.lpcorp.com/Proven-Productivity)

SMARTER SIDING FOR A MORE SUSTAINABLE WORLD

LP® SmartSide® Trim & Siding products are must-have materials to help builders qualify for green building programs. In fact, LP SmartSide products represent one of the only carbon-negative siding options on the market, making it a great solution for clients who desire sustainable products with minimal impact on our environment.



We're not just building for the future; we're helping to protect it by using Sustainable Forestry Initiative® (SFI) certified forest management and fiber sourcing systems to help ensure that our wood comes from well-managed forests.

NATURALLY SUSTAINABLE

The LP SmartSide manufacturing process begins with wood, a renewable resource, grown and gathered responsibly under strict SFI standards. We target fast-growing trees and use 99% of the log for either the product or the fuel to make it. Plus, all binding agents and resins are low-emitting.

A DURABLE CARBON-NEGATIVE SIDING OPTION

The amount of carbon dioxide emitted during production of LP SmartSide products is less than the amount the product stores over its lifetime, qualifying them as carbon negative. In fact, LP SmartSide products emit 54% less greenhouse gases and store 10 times more carbon than fiber cement-based products.



Learn more about LP's environmental programs at [LPCorp.com/Sustainability](https://www.lpcorp.com/sustainability)



A BEAUTIFUL SOLUTION FROM THE INSIDE OUT

BOOST CURB APPEAL WITH TIMELESS DESIGNS

Siding plays a big role in a home's curb appeal and overall aesthetic. That's why LP® SmartSide® Trim & Siding is designed to make almost any home's design vision come to life—and longer lasting. With its variety of textures, styles and ExpertFinish® colors, LP SmartSide products elevate almost any structure—from traditional homes to modern masterpieces. Its versatility also offers endless options for designs that stand out, making it the siding of choice for over 20 years for homeowners who want distinctive beauty and uncompromising quality.

GIVE YOUR VISION THE FINISHING TOUCH

Choose your style. Choose your color. Get the look you want—that's the beauty of working with LP® SmartSide® engineered wood siding products. Available in prefinished and primed options, LP SmartSide Trim & Siding offers the versatility you need to achieve stunning results with ease.

WHICH PRODUCT COLLECTION FITS YOUR NEEDS?

LP SmartSide products are available in prefinished ExpertFinish® colors and primed. A variety of prefinished colors helps you see almost instant color—only a few touch-ups are required after installation. With primed products, you can paint siding any color you choose. Explore each option in the following pages.

See how LP SmartSide products can look on your home with the Home Visualizer tool, available at [LPCorp.com/Home-Visualizer](https://www.lpcorp.com/Home-Visualizer)



COLORFUL SIDING. BEAUTIFUL FINISH.

LP® SMARTSIDE® EXPERTFINISH® TRIM & SIDING

The advanced durability you expect from LP® SmartSide® Trim & Siding comes in color. With a variety of versatile prefinished colors, there's a color that'll complement your project—no matter your style. Start visualizing how you could bring color to your design today!

Featured: LP SmartSide ExpertFinish Cedar Texture Lap in Summit Blue



TAKE ADVANTAGE OF STRONGER PREFINISHED OPTIONS

LP® SmartSide® ExpertFinish® Trim & Siding offers more design options than ever. This factory-finished siding with uniform color provides durability without sacrificing beauty.

- Installs easier with the ExpertFinish proprietary lap joint, which helps limit the need for most seam caulking, joint molds, or pan flashing
- Backed by an industry-leading 5/15/50-year prorated limited warranty: 5-year labor and materials, 15-year finish, and 50-year substrate
- May allow for time and labor savings for the installer and builder
- Uniform color application in a controlled environment helps ensure a more attractive look



Which color is best for your build? Explore our collection of 16 versatile prefinished colors available in brushed smooth and cedar texture.



All colors shown are representative and may not be an exact match.

See the complete list of colors and product availability on pages 37-70.

Please contact your local LP SmartSide sales representative for product availability.



Featured: LP SmartSide ExpertFinish Cedar Texture Lap in Summit Blue, Trim & Fascia in Snowscape White

DISCOVER COUNTLESS DESIGN OPPORTUNITIES

LP® SmartSide® ExpertFinish® Trim & Siding can take your design vision to the next level with several exclusive products designed to add style and a clean finish to your home. Siding and trim in colors that pop can make your home stand out, while additional details create a polished look that is longer lasting.

- Pair multiple colors of trim, siding and more for a cohesive look
- Match your home's style to traditional colors for it—or try something new
- Achieve a modern look that still stands the test of time
- Choose from a variety of options for black or brown roofs

Visualize your next project and discover color at LPCorp.com/ExpertFinish



Featured: LP SmartSide ExpertFinish Lap in Snowscape White

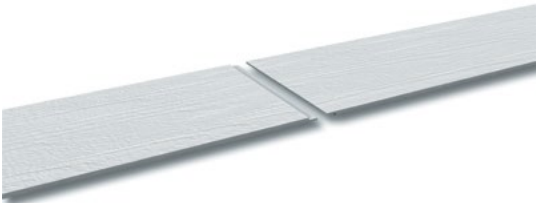


Featured: LP Smartside ExpertFinish in Harvest Honey and Trim in Abyss Black

HOLDS UP. STANDS OUT.

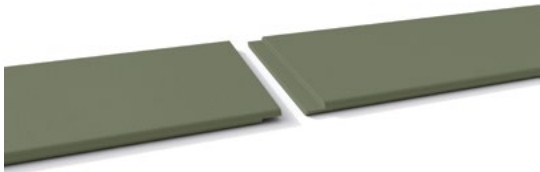
LAP SIDING

Create the look you want with a versatile selection of LP® SmartSide® ExpertFinish® products. Engineered to stand up to extreme weather, LP SmartSide Lap Siding is a natural, durable choice for structures in most regions. Plus, it’s a great companion cladding for structures partially finished in stucco, stone or brick.



LP SMARTSIDE EXPERTFINISH
CEDAR TEXTURE LAP

Shown in ExpertFinish color Snowscape White



LP SMARTSIDE EXPERTFINISH
BRUSHED SMOOTH LAP

Shown in ExpertFinish color Garden Sage

A MODERN PROFILE WITH DESIGN FLEXIBILITY

NEW NICKEL GAP SIDING

LP® SmartSide® Nickel Gap Siding offers a modern profile using SmartGuard technology. Nickel Gap features locking flanges with a fastener groove that hides nails. This also allows for the siding to be stacked and tapped into place, creating a gap between the boards about the size of a nickel.



LP SMARTSIDE EXPERTFINISH
CEDAR TEXTURE NICKEL GAP SIDING

Shown in ExpertFinish color Snowscape White



LP SMARTSIDE EXPERTFINISH
BRUSHED SMOOTH NICKEL GAP SIDING

Shown in ExpertFinish color Garden Sage



Featured: LP SmartSide ExpertFinish Cedar Texture Shakes (straight) in Abyss Black, Trim & Fascia in Snowscape White

A BEAUTIFUL ACCENT FOR ANY DESIGN

SHAKES

When you use LP® SmartSide® ExpertFinish® Cedar Texture Shakes on your projects, people will notice your attention to detail. The beautiful aesthetic can be used for accents, gables or siding walls and will take curb appeal to the next level. It's a must-have product for when you want your craftsmanship to stand out on most any home or shed.



LP SMARTSIDE EXPERTFINISH CEDAR TEXTURE SHAKES

Shown in ExpertFinish color Snowscape White



Featured: LP SmartSide ExpertFinish Cedar Texture Shakes, Soffit and Fascia in Abyss Black

THE BEAUTY IS IN THE DETAILS

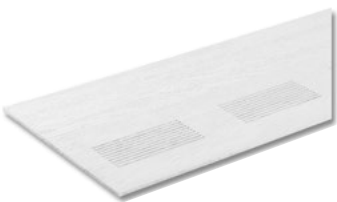
SOFFIT

When you use LP® SmartSide® ExpertFinish® Soffit on your projects, people will notice your attention to detail. You'll get the same woodgrain or brushed smooth look that matches other LP SmartSide ExpertFinish products in a soffit that's pre-cut to the width you need. Vented soffits are also available with precisely cut, bug-resistant vents.



LP SMARTSIDE EXPERTFINISH CEDAR TEXTURE SOFFIT

Shown in ExpertFinish color Snowscape White



LP SMARTSIDE EXPERTFINISH CEDAR TEXTURE VENTED SOFFIT

Shown in ExpertFinish color Snowscape White



LP SMARTSIDE EXPERTFINISH BRUSHED SMOOTH SOFFIT

Shown in ExpertFinish color Garden Sage



Featured: LP SmartSide ExpertFinish Panel & Vertical Siding, Trim & Fascia in Abyss Black



Featured: LP SmartSide Cedar Shakes, Vertical Siding, Trim & Fascia

DURABLE FROM TOP TO BOTTOM

PANEL & VERTICAL SIDING

Tough to the core, LP® SmartSide® ExpertFinish® Panel & Vertical Siding are treated engineered wood products that boast better durability, stability and consistency than traditional wood panels. They’re easy to recommend for multifamily, shed and residential applications that require a premium look and the toughness to help combat extreme weather. Plus, they can help you re-create the charming appearance of board and batten while providing the added protection of the LP® SmartGuard® process.



**LP SMARTSIDE
EXPERTFINISH
CEDAR TEXTURE
PANEL**

Shown in ExpertFinish color Snowscape White



**LP SMARTSIDE
EXPERTFINISH
CEDAR TEXTURE
VERTICAL SIDING**

Shown in ExpertFinish color Snowscape White



**LP SMARTSIDE
EXPERTFINISH
BRUSHED SMOOTH
PANEL**

Shown in ExpertFinish color Garden Sage



**LP SMARTSIDE
EXPERTFINISH
BRUSHED SMOOTH
VERTICAL SIDING**

Shown in ExpertFinish color Garden Sage



**LP SMARTSIDE EXPERTFINISH
CEDAR TEXTURE TRIM**

Shown in ExpertFinish color Snowscape White



**LP SMARTSIDE EXPERTFINISH
BRUSHED SMOOTH TRIM**

Shown in ExpertFinish color Garden Sage

THE FINISHING TOUCH TO MAKE THE NEIGHBORS JEALOUS

TRIM & FASCIA

LP® SmartSide® ExpertFinish® Trim & Fascia are the finishing touch that’s the first to get noticed. With deep cedar-grain texture and brushed smooth options as well as a variety of widths and thicknesses, you can add custom design accents that take curb appeal to the next level. LP SmartSide ExpertFinish Trim is a must-have product for when you want your craftsmanship to stand out on any home or shed.

Featured: LP SmartSide ExpertFinish Cedar Texture Shakes (straight) and J-Block in Abyss Black

INSTALL WITH EASE WITHOUT CUTTING CORNERS

OUTSIDE CORNERS, J-BLOCKS & MINI-SPLITS

Finish any structure's exterior with style and the same durability you trust with these efficient accessories, available in brushed smooth and cedar texture. Outside Corners allow you to skip creating corners on the jobsite while J-Blocks and Mini-Splits help you easily mount light fixtures, faucets and other outdoor fixtures.



**OUTSIDE CORNER
CEDAR TEXTURE**

Shown in ExpertFinish color Snowscape White



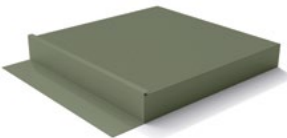
**J-BLOCK
CEDAR TEXTURE**

Shown in ExpertFinish color Snowscape White



**MINI-SPLIT
CEDAR TEXTURE**

Shown in ExpertFinish color Snowscape White



**J-BLOCK
BRUSHED SMOOTH**

Shown in ExpertFinish color Garden Sage



**MINI-SPLIT
BRUSHED SMOOTH**

Shown in ExpertFinish color Garden Sage



PRIMED AND READY TO MATCH YOUR **STYLE**

The complete LP® SmartSide® Trim & Siding product collection is available primed and ready to paint any color so you can enjoy the flexibility you need to create almost any home style. Explore the collection and options on the following pages.



Featured: LP SmartSide ExpertFinish Cedar Texture Shakes in Timberland Suede, Lap Siding in Terra Brown, Trim in Sand Dunes

SHOW YOUR TRUE COLORS

For even more aesthetic options, primed LP SmartSide products serve as a great option. These products arrive ready to be painted any color so you and your clients can create the look you want. They're also backed by the durability you expect from engineered wood technology. All LP SmartSide products are available in the primed option.



LAP SIDING

Easier-to-maintain traditional siding, available in cedar texture



NEW NICKEL GAP SIDING

Offers a modern profile with locking flanges and a fastener groove that hides nails



SHAKES

Accent piece with staggered or straight edges and shiplap ends for a detailed finish



PANEL & VERTICAL SIDING

Siding that can be used to create the classic board and batten style, among other looks



TRIM & FASCIA

Details to add interest and curb appeal to any home's look, available in brushed smooth and cedar texture



SOFFIT

Ventilation that completes a clean exterior look and serves as a finishing touch



J-BLOCK

Offers a way to easily and attractively mount light fixtures, water faucets and more



MINI-SPLIT

Install exterior features with ease; can be separated for specific mount styles

MAKE THE FIRST IMPRESSION COUNT

LP® SmartSide® Trim & Siding products add style and durability to new homes and other applications, such as remodels and multifamily structures. They come in a variety of ExpertFinish® colors designed to enhance any project. Use LP SmartSide products on their own or to complement other claddings, such as brick or stone. With products and colors this versatile, the possibilities are virtually endless, no matter the project.



Featured: LP SmartSide ExpertFinish Lap, Panel & Trim, Board & Batten style in Cavern Steel and Trim & Fascia in Quarry Gray



Featured: LP SmartSide ExpertFinish Cedar Texture Lap Siding and Trim in Snowscape White

A FRESH START DESIGNED TO LAST

NEW HOME

Every homeowner wants a custom look that they can take pride in. They want a style that helps differentiate their new home from the one next door. LP® SmartSide® products give builders and architects the ability to design a signature look with a wow-factor that leaves a lasting impression.

[LPCorp.com/NewHome](https://www.lpcorp.com/NewHome)

POPULAR CHOICES FOR NEW HOMES:

- LP® SmartSide® Lap Siding
- LP® SmartSide® Nickel Gap Siding
- LP® SmartSide® Cedar Texture Shakes
- LP® SmartSide® Trim & Fascia
- LP® SmartSide® Soffit
- LP® SmartSide® Vertical Siding
- LP® SmartSide® Panel Siding (for Board & Batten Style)
- LP® SmartSide® ExpertFinish® Trim & Siding

OUT WITH THE OLD, IN WITH THE NEW

REMODEL

LP® SmartSide® products can help give any home new life with their beautiful selection of styles and profiles. They easily transform homes from boring to bold with brushed smooth and cedar texture options. When you start using LP SmartSide products, it's easy to see why homeowners love them and professional remodelers love to work with them.

[LPCorp.com/Remodel](https://www.lpcorp.com/Remodel)

POPULAR CHOICES FOR REMODELING:

- LP® SmartSide® Lap Siding
- LP® SmartSide® Cedar Texture Shakes
- LP® SmartSide® Trim & Fascia
- LP® SmartSide® Soffit
- LP® SmartSide® Vertical Siding
- LP® SmartSide® Panel Siding (for Board & Batten Style)
- LP® SmartSide® ExpertFinish® Trim & Siding



Featured: LP SmartSide Panel, Trim & Fascia



Featured: LP SmartSide Trim, Panel, Trim & Fascia

DURABILITY FOR THE GREAT OUTDOORS

OUTDOOR BUILDING SOLUTIONS®

LP® Outdoor Building Solutions® engineered wood products feature innovations that help offer more value to customers. With innovations like SilverTech® panel for a brighter and cooler interior and SmartFinish® overlay for a tough, attractive appearance, LP Outdoor Building Solutions products give you quality you can see inside and out.

POPULAR CHOICES FOR OUTDOOR BUILDINGS:

- LP® SmartSide® Panel Siding
- LP® SmartSide® Panel Siding with SilverTech
- LP® SmartSide® Panel Siding with SmartFinish
- LP® SmartSide® Lap Siding
- LP® ProStruct® Flooring with SmartFinish
- LP® ProStruct® Roof with SilverTech
- LP® SmartSide® Trim & Fascia
- LP® SmartSide® ExpertFinish® Trim & Siding

[LPCorp.com/Shed](https://www.lpcorp.com/Shed)

MORE OPTIONS FOR MORE FAMILIES

MULTIFAMILY

Designed to combine style and durability, LP® SmartSide® Trim & Siding products are a great fit for multifamily developments. They are compatible with a wide range of styles, claddings and colors, offering flexibility and versatility in both function and design. Because engineered wood is built to be longer lasting, multifamily structures using LP SmartSide products stand the test of time.

POPULAR CHOICES FOR MULTIFAMILY:

- LP® SmartSide® Panel Siding
- LP® SmartSide® Lap Siding
- LP® SmartSide® Vertical Siding
- LP® SmartSide® Trim & Fascia
- LP® SmartSide® Soffit
- LP® SmartSide® ExpertFinish® Trim & Siding

[LPCorp.com/Multifamily](https://www.lpcorp.com/Multifamily)

TAKE A LOOK **INSIDE**

LP® SmartSide® products come in different lengths, widths, textures, ExpertFinish® colors and profiles, so there's an ideal product for virtually any set of needs. Each option has its own unique combination of advantages. Find all those details and product specifications here, including ExpertFinish color availability for each product.

EXPERTFINISH®

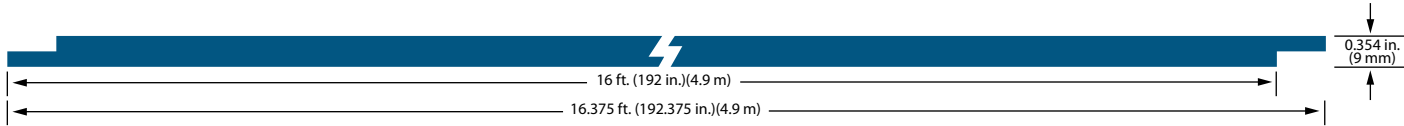
COLOR	38 Series 6" or 8" Lap	Nickel Gap Siding 8"	190 Series 3" Trim	440 Series 4", 6", 8", 10" or 12" Trim	540 Series 4", 6", 8", 10" or 12" Trim	38 Series 12" or 16" Closed Soffit	38 Series 12" or 16" Vented Soffit	38 Series Soffit 24' Closed Soffit	38 Series Soffit 24' Vented Soffit	38 Series 12" x 48" Shakes	38 Series 16" x 16" Vertical Siding	38 Series 4' x 8' Panel	38 Series 4' x 10' Panel	540 Series 4" or 6" x 10' Outside Corner	540 Series 7.25" x 7.25" J-Block	540 Series 7.25" x 6.75" Mini Split
Snowscape White	●*	●*	●*	●*	●*	●*	●	●*	●	●	●*	●*	●	●	●*	●*
Sand Dunes	●*	●*	●*	●*	●*			●*	●	●	●*	●*	●	●	●*	●*
Desert Stone	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Quarry Gray	●*	●*	●*	●*	●*			●*	●	●	●*	●*	●	●	●*	●*
Prairie Clay	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Terra Brown	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Harvest Honey	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Timberland Suede	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Garden Sage	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Redwood Red	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Tundra Gray	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Summit Blue	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Rapids Blue	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Cavern Steel	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Midnight Shadow	●*	●*	●*	●*	●*					●	●*	●*	●	●	●*	●*
Abyss Black	●*	●*	●*	●*	●*			●*	●	●	●*	●*	●	●	●*	●*

All colors shown are representative and may not be an exact match. ● Available in Cedar Texture * Available in Brushed Smooth

SNOWSCAPE WHITE CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41715	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42271	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46558	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46468	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.675 in. (17.1 mm)	42324	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	42328	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46396	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46412	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46428	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	42312	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	42316	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46316	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46332	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46348	3 PSF
38 Series 12" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	11.94 in. (303 mm)	0.354 in. (9 mm)	46434	-
38 Series 12" x 16" Vented Soffit	16 ft. (192 in.)(4.9 m)	11.94 in. (303 mm)	0.354 in. (9 mm)	43433	-
38 Series 16" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	46436	-
38 Series 16" x 16" Vented Soffit	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	46435	-
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46536	-
38 Series 24" x 16" Vented Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46540	-
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.315 in. (8 mm)	46524	2 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	41730	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41741	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	41714	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92.3 mm)	0.970 in. (24.6 mm)	46460	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (142.8 mm)	0.970 in. (24.6 mm)	46492	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43399	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43416	-
Touch-Up Kits	-	-	-	42043	-

38 SERIES EXPERTFINISH LAP



* Same specs for all 16 colors on pages 37-68.

**Lap joint profile is exclusive to LP® SmartSide® ExpertFinish® Lap Siding. Third party prefinished siding will not include this feature.

SNOWSCAPE WHITE BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45683	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45667	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46574	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45779	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.675 in. (17.1 mm)	45795	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45811	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45827	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45843	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45859	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45699	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45715	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45731	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45747	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45763	3 PSF
38 Series 12" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	11.94 in. (303 mm)	0.354 in. (9 mm)	46541	-
38 Series 16" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	46542	-
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46574	-
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45877	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45893	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45925	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45953	-
Touch-Up Kits	-	-	-	42043	-

SAND DUNES CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41841	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42272	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46557	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46267	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46363	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46379	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46395	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46411	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46427	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46283	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46299	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46315	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46331	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46347	3 PSF
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46535	-
38 Series 24" x 16" Vented Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46539	-
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.315 in. (8 mm)	46522	2 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41824	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41827	2 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	41820	1.5 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46458	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46490	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43401	-
7.25" x 6.75"Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43417	-
Touch Up Kits	-	-	-	42055	-

SAND DUNES BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45682	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45666	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46573	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45778	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45794	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45810	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45826	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45842	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45858	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45698	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45714	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45730	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45746	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45762	3 PSF
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46545	-
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45892	2 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45876	1.5 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45923	-
7.25" x 6.75"Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45951	-
Touch Up Kits	-	-	-	42055	-

DESERT STONE CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41842	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42274	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46549	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46248	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46355	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46371	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46387	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46403	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46419	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46275	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46291	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46307	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46323	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46339	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43152	1.5 PSF
38 Series 4´ x 8´ No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43351	2 PSF
38 Series 4´ x 10´ No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43151	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.315 in. (8 mm)	43355	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46442	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46474	-
7.25” x 7.25” J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43402	-
7.25” x 6.75” Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43418	-
Touch-Up Kits	-	-	-	42049	-

DESERT STONE BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45674	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45658	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46565	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45770	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45786	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45802	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45818	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45834	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45850	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45690	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45706	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45722	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45738	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45754	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45868	1.5 PSF
38 Series 4´ x 8´ No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45884	2 PSF
7.25” x 7.25” J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45907	-
7.25” x 6.75” Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45938	-
Touch-Up Kits	-	-	-	42049	-

QUARRY GRAY CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41837	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42288	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46554	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46264	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46360	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46376	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46392	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46408	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46424	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46280	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46296	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46312	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46328	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46344	3 PSF
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46534	
38 Series 24" x 16" Vented Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46538	
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	41819	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41822	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	41825	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.315 in. (8 mm)	46516	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46452	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46484	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43412	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43428	-
Touch-Up Kits	-	-	-	42052	-

QUARRY GRAY BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45679	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45663	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46570	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45775	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45791	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45807	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45823	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45839	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45855	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45695	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45711	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45727	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45743	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45759	3 PSF
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46544	
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45961	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45889	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45917	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45974	-
Touch-Up Kits	-	-	-	42052	-

PRAIRIE CLAY CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41834	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42278	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46553	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46263	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46359	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46375	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46391	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46407	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46423	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46279	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46295	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46311	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46327	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46343	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43194	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43361	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43193	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.315 in. (8 mm)	46514	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46450	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46482	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43404	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43420	-
Touch-Up Kits	-	-	-	42051	-

PRAIRIE CLAY BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45678	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45662	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46569	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45774	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45790	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45806	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45822	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45838	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45854	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45694	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45710	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45726	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45742	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45758	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45872	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45888	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45915	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45945	-
Touch-Up Kits	-	-	-	42051	-

TERRA BROWN CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41845	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42277	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46560	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46270	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46366	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46382	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46398	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46414	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46430	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46286	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46302	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46318	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46334	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46350	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	46528	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41823	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	41826	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (8 mm)	46528	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46464	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46496	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43403	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43432	-
Touch-Up Kits	-	-	-	42046	-

TERRA BROWN BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45685	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45669	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46576	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45781	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45797	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45813	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45829	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45845	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45861	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45701	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45717	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45733	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45749	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45765	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45964	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45968	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45929	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45980	-
Touch-Up Kits	-	-	-	42046	-

HARVEST HONEY CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45327	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45284	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46551	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46261	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46357	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46373	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46389	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46405	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46421	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46277	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46293	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46309	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46325	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46341	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45381	1.5 PSF
38 Series 4´ x 8´ No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45384	2 PSF
38 Series 4´ x 10´ No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	45387	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	46510	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46446	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46478	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45436	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45438	-
Touch-Up Kits	-	-	-	45405	-

HARVEST HONEY BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45676	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45660	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46567	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45772	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45788	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45804	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45820	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45836	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45852	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45692	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45708	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45724	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45740	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45756	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45870	1.5 PSF
38 Series 4´ x 8´ No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45886	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45911	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45942	-
Touch-Up Kits	-	-	-	45405	-

TIMBERLAND SUEDE CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41843	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42269	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46561	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46271	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46367	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46383	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46399	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46415	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46431	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46287	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46303	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46319	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46335	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46351	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43291	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43382	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43290	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	46530	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46466	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46498	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43405	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43421	-
Touch-Up Kits	-	-	-	42058	-

TIMBERLAND SUEDE BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45686	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45670	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46577	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45782	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45798	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45814	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45830	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45846	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45862	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45702	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45718	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45734	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45750	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45766	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45880	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45896	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45931	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45957	-
Touch-Up Kits	-	-	-	42058	-

GARDEN SAGE CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45328	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45325	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46550	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46249	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46356	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46372	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46388	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46404	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46420	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46276	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46292	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46308	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46324	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46340	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45382	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45385	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (8 mm)	46388	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (8 mm)	46508	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46444	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46476	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45437	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45402	-
Touch-Up Kits	-	-	-	45441	-

GARDEN SAGE BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45675	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45659	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46566	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45771	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45787	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45803	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45819	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45835	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45851	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45691	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45707	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45723	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45739	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45755	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45869	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45885	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45909	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45940	-
Touch-Up Kits	-	-	-	45441	-

REDWOOD RED CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41840	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42293	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46556	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46266	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46362	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46378	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46394	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46410	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46426	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46282	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46288	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46314	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46330	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46346	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43232	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43369	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43231	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	46520	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46456	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46488	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43408	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43424	-
Touch-Up Kits	-	-	-	42054	-

REDWOOD RED BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45681	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45665	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46572	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45777	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45793	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45809	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45825	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45841	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45857	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45697	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45713	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45729	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45745	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45761	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45875	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45891	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45921	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45949	-
Touch-Up Kits	-	-	-	42054	-

TUNDRA GRAY CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41846	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42300	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46562	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46272	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46368	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46384	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46400	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46416	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46432	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46288	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46304	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46320	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46336	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46352	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43312	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43387	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43311	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	46532	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46468	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46500	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43413	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43429	-
Touch-Up Kits	-	-	-	42059	-

TUNDRA GRAY BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45687	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45671	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46578	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45783	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45799	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45815	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45831	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45847	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45863	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45703	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45719	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45735	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45751	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45767	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45965	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45897	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45933	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45982	-
Touch-Up Kits	-	-	-	42059	-

SUMMIT BLUE CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41844	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42273	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46559	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46269	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46365	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46381	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46397	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46413	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46429	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46285	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46301	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46317	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46333	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46349	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43341	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43379	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43340	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	46526	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46462	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46494	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43410	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43426	-
Touch-Up Kits	-	-	-	42057	-

SUMMIT BLUE BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45684	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45668	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46575	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45780	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45796	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45812	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45828	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45844	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45860	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45700	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45716	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45732	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45748	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45764	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45963	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45967	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45927	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45978	-
Touch-Up Kits	-	-	-	42057	-

RAPIDS BLUE CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41839	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42287	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46555	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46265	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46461	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46377	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46397	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46409	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46425	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46281	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46297	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46313	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46329	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46345	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43337	1.5 PSF
38 Series 4’ x 8’ No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43366	2 PSF
38 Series 4’ x 10’ No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43336	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	46518	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46454	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46486	-
7.25” x 7.25” J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43411	-
7.25” x 6.75” Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43427	-
Touch-Up Kits	-	-	-	42053	-

RAPIDS BLUE BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45680	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45664	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46571	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45776	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45792	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45808	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45824	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45840	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45856	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45696	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45712	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45728	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45744	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45760	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45962	1.5 PSF
38 Series 4’ x 8’ No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45966	2 PSF
7.25” x 7.25” J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45919	-
7.25” x 6.75” Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45976	-
Touch-Up Kits	-	-	-	42053	-

CAVERN STEEL CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41835	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42301	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46548	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46247	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46354	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46370	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46387	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46402	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46418	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46274	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46290	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46306	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46322	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46338	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	43133	1.5 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	43348	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	43132	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	46504	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46440	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46472	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43414	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43430	-
Touch-Up Kits	-	-	-	42048	-

CAVERN STEEL BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45673	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45657	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46564	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45769	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45785	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45801	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45817	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45833	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45849	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45689	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45705	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45721	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45737	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45753	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45959	1.5 PSF
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45883	2 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45905	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45970	-
Touch-Up Kits	-	-	-	42048	-

MIDNIGHT SHADOW CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45329	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45326	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46552	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46262	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46358	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46374	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46390	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46406	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46422	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46478	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46294	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46310	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46326	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46342	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45383	1.5 PSF
38 Series 4´ x 8´ No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45386	2 PSF
38 Series 4´ x 10´ No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	45389	2 PSF
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	46512	2 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46448	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46480	-
7.25´ x 7.25´ J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45399	-
7.25´ x 6.75´ Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45440	-
Touch-Up Kits	-	-	-	45442	-

MIDNIGHT SHADOW BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45677	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45661	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46568	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45773	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45789	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45805	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45821	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45837	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45853	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45693	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45709	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45725	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45741	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45757	3 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45960	1.5 PSF
38 Series 4´ x 8´ No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45887	2 PSF
7.25´ x 7.25´ J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45913	-
7.25´ x 6.75´ Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45972	-
Touch-Up Kits	-	-	-	45442	-

ABYSS BLACK CEDAR TEXTURE

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	41774	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	42279	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46547	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	46246	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	42327	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46369	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46385	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46401	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46417	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	46273	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	46273	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	46305	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	46321	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	46337	3 PSF
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46533	-
38 Series 24" x 16" Vented Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	46537	-
38 Series Shakes	4 ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.315 in. (8 mm)	46502	2 PSF
38 Series 4' x 8' No Groove Shiplap Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41833	2 PSF
38 Series 4' x 10' No Groove Shiplap Edge Panel	10 ft. (119.81 in.)(3043 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	41771	2 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	41775	1.5 PSF
540 Series Outside Corner	10 ft. (119.81 in.)(3043 mm)	3.625 in. (92 mm)	0.970 in. (24.6 mm)	46438	-
	10 ft. (119.81 in.)(3043 mm)	5.625 in. (143 mm)	0.970 in. (24.6 mm)	46470	-
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	43435	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43431	-
Touch-Up Kits	-	-	-	42045	-

ABYSS BLACK BRUSHED SMOOTH

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	45672	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	45656	1.5 PSF
Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (12.7 mm)	46563	1.5 PSF
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	45768	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	45784	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	45800	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	45816	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	45832	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	45848	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45688	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45704	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45720	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45736	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45752	3 PSF
38 Series 24" x 16" Closed Soffit	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	45643	-
38 Series 4' x 8' No Groove Square Edge Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	45882	2 PSF
38 Series Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45866	1.5 PSF
7.25" x 7.25" J-Block	7.25 in. (184 mm)	7.25 in. (184 mm)	0.970 in. (24.6 mm)	45903	-
7.25" x 6.75" Mini Split	7.25 in. (184 mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	45935	-
Touch-Up Kits	-	-	-	42045	-

Specifications: LP® SmartSide® Lap Siding

CEDAR TEXTURE LAP SIDING

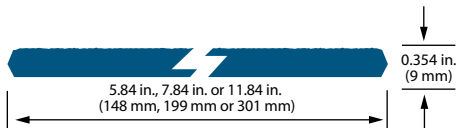
THE BOLD LOOK OF CEDAR WITHOUT MANY OF THE WORRIES

- One of the most durable lap siding options on the market today
- Available in lengths up to 16’ to help speed installation
- May create fewer seams than traditional 12’ siding
- Primed for exceptional paint adhesion
- APA-certified lap siding
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay

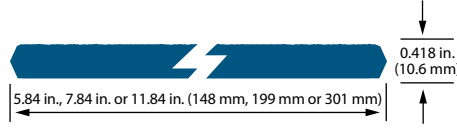


Cedar Texture

38 SERIES CEDAR TEXTURE LAP



76 SERIES CEDAR TEXTURE LAP



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Lap	16 ft. (192 in.)(4.9 m)	5.84 in. (148 mm)	0.354 in. (9 mm)	25796	1.5 PSF
	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.354 in. (9 mm)	25797	1.5 PSF
	16 ft. (192 in.)(4.9 m)	11.84 in. (301 mm)	0.354 in. (9 mm)	25799	1.5 PSF
76 Series Lap	16 ft. (192 in.)(4.9 m)	7.84 in. (199 mm)	0.418 in. (10.6 mm)	25786	1.5 PSF
	16 ft. (192 in.)(4.9 m)	11.84 in. (301 mm)	0.418 in. (10.6 mm)	25787	1.5 PSF

Specifications: LP® SmartSide® Lap Siding Coverage

Lap Siding 16' Length	Reveal (size)			
Area (sq. ft.)	4-7/8" (6")	5-7/8" (7")	6-7/8" (8")	10-7/8" (12")
100	16 pcs.	13 pcs.	11 pcs.	7 pcs.
200	31 pcs.	26 pcs.	22 pcs.	14 pcs.
300	47 pcs.	39 pcs.	33 pcs.	21 pcs.
400	62 pcs.	52 pcs.	44 pcs.	28 pcs.
500	77 pcs.	64 pcs.	55 pcs.	35 pcs.
600	93 pcs.	77 pcs.	66 pcs.	42 pcs.
700	108 pcs.	90 pcs.	77 pcs.	49 pcs.
800	124 pcs.	103 pcs.	88 pcs.	56 pcs.
900	139 pcs.	115 pcs.	99 pcs.	63 pcs.
1000	154 pcs.	128 pcs.	110 pcs.	69 pcs.
1500	231 pcs.	192 pcs.	164 pcs.	104 pcs.
2000	308 pcs.	256 pcs.	219 pcs.	138 pcs.
2500	385 pcs.	320 pcs.	273 pcs.	173 pcs.
3000	462 pcs.	383 pcs.	328 pcs.	207 pcs.
3500	539 pcs.	447 pcs.	382 pcs.	242 pcs.
4000	616 pcs.	511 pcs.	437 pcs.	276 pcs.
4500	693 pcs.	575 pcs.	491 pcs.	311 pcs.
5000	770 pcs.	639 pcs.	546 pcs.	345 pcs.

Specifications: LP® SmartSide® Nickel Gap Siding

NEW NICKEL GAP SIDING

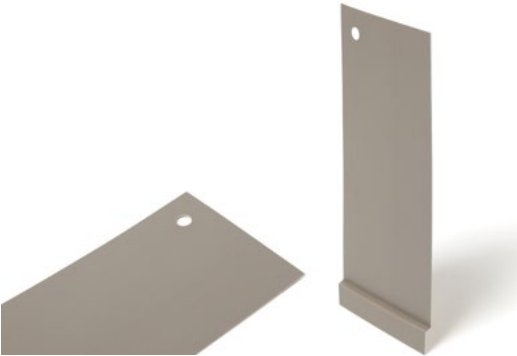
A MODERN PROFILE WITH DESIGN FLEXIBILITY

- Features include a nominal 1/2” thickness and 7” reveal
- Can be installed vertically or horizontally
- Local/regional building codes should be followed
- Install with LP SmartFlash™ Metal Pan Flashing accessory (100 pieces/box; only available in primed) or comparable alternative to support a complete system
- Backed by an industry-leading 5/50-year limited warranty

CEDAR TEXTURE NICKEL GAP



Cedar Texture



SmartFlash Metal Flashing

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
LP SmartSide Nickel Gap Siding	16 ft. (192 in.)(4.9 m)	8 in. (203 mm)	0.5 in. (13 mm)	45545	1.5 PSF
LP SmartFlash Metal Flashing	10 in. (254 mm)	4 in. (101.6 mm)	0.024 in. (0.61 mm)	46180	9.4LBS/100PC BOX

Specifications: LP® SmartSide® Nickel Gap Siding Coverage

Nickel Gap 16" Length	Reveal (size)
Area (sq. ft.)	6-7/8" (8")
100	11 pcs.
200	22 pcs.
300	33 pcs.
400	44 pcs.
500	55 pcs.
600	66 pcs.
700	77 pcs.
800	88 pcs.
900	99 pcs.
1000	110 pcs.
1500	164 pcs.
2000	219 pcs.
2500	273 pcs.
3000	328 pcs.
3500	382 pcs.
4000	437 pcs.
4500	491 pcs.
5000	546 pcs.

Specifications: LP® SmartSide® Pebbled Stucco

NEW PEBBLED STUCCO



DESIGNED FOR EASIER USE IN CHANNEL APPLICATIONS

- Square Edge or Shiplap design for easier use in trim channel applications
- Available in 9’ and 10’ panels, Square Edge or Shiplap
- Leverages SmartGuard® technology that helps:
 - Protect against many weather conditions, including impacts from hail and damage from freeze/thaw cycles
 - Provide resistance to termites and fungal decay
- Primed for exceptional paint adhesion
- Backed by an industry-leading 5/50-year limited warranty

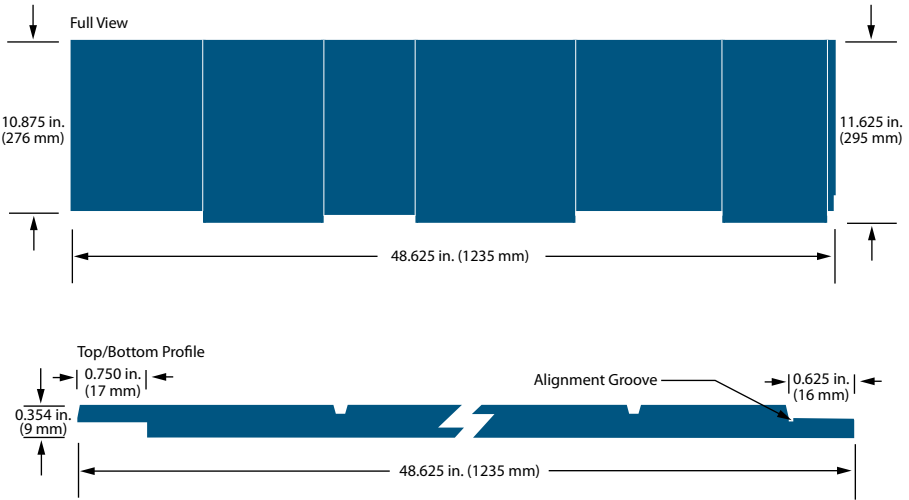
DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
Square Edge Pebbled Stucco	120 in. (3 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	46050	1.5 PSF
	108 in. (2.7 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	46051	1.5 PSF
Shiplap Pebbled Stucco	120 in. (3 m)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	46052	1.5 PSF
	108 in. (2.7 m)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	46053	1.5 PSF

CEDAR TEXTURE SHAKES

THE LUXURIOUS APPEAL OF CEDAR

- The look of traditional cedar with easier maintenance over time
- Staggered edges offer a lively, textured effect
- Can be used as a decorative accent or on the entire structure
- Shiplap ends for a clean appearance
- Reversible staggered or straight edge offers exceptional design versatility
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay

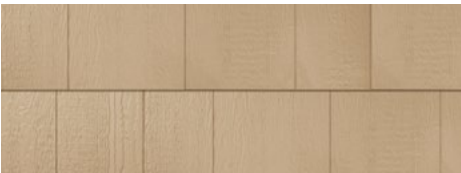
38 SERIES CEDAR TEXTURE SHAKES



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Cedar Texture Shakes	4ft. (48.63 in.)(1.2 m)	11.625 in. (295 mm)	0.354 in. (9 mm)	42092	2 PSF



Staggered



Straight

Cedar Texture Shakes 4' Length	Reveal (size)	
	Area (sq. ft.)	
	6-7/8" (12")	9-7/8" (12")
100	44 pcs.	31 pcs.
200	88 pcs.	61 pcs.
300	131 pcs.	92 pcs.
400	175 pcs.	122 pcs.
500	219 pcs.	152 pcs.
600	262 pcs.	183 pcs.
700	306 pcs.	213 pcs.
800	350 pcs.	244 pcs.
900	393 pcs.	274 pcs.
1000	437 pcs.	304 pcs.
1500	655 pcs.	456 pcs.
2000	873 pcs.	608 pcs.
2500	1091 pcs.	760 pcs.
3000	1310 pcs.	912 pcs.
3500	1528 pcs.	1064 pcs.
4000	1746 pcs.	1216 pcs.
4500	1964 pcs.	1368 pcs.
5000	2182 pcs.	1519 pcs.

Disclaimer: The above chart does not account for waste factors. Remember to include your expected jobsite waste. It is up to the purchaser to determine the appropriate waste factor to add to the material estimate. LP takes no responsibility for estimates, including overages or shortages of material based on the above coverage chart.

PANEL SIDING

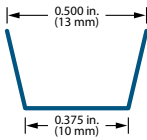
RATED FOR STRUCTURAL USE BY APA®

- Shiplap edges with alignment bead for easier installation
- Primed for exceptional paint adhesion
- Significantly lighter per square foot than comparable fiber cement panel
- Strong enough to be nailed directly to stud, making additional sheathing unnecessary in many applications
- Helps to eliminate need for additional bracing on load-bearing walls
- Ideal exterior for homes in areas of high winds or seismic activity
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay

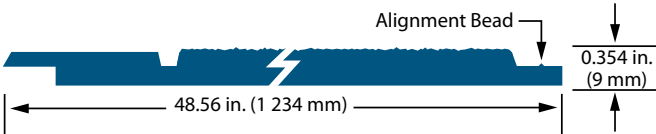


Cedar Texture

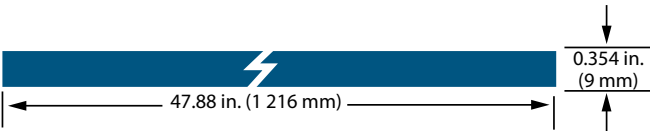
GROOVE DETAIL



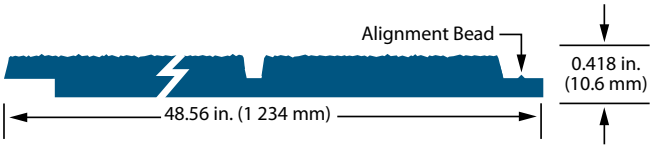
38 SERIES CEDAR TEXTURE PANEL 8" O.C.



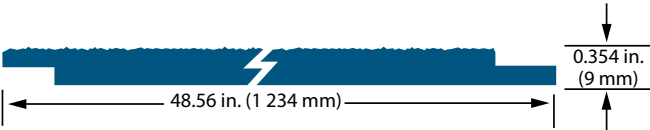
38 SERIES CEDAR TEXTURE – NO GROOVE DUAL USE SIDING AND SOFFIT PANEL



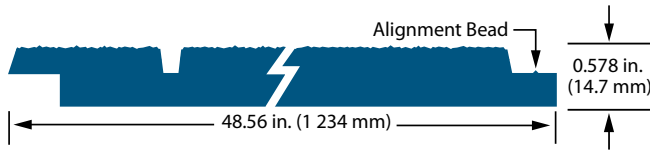
76 SERIES CEDAR TEXTURE PANEL 4" & 8" O.C.



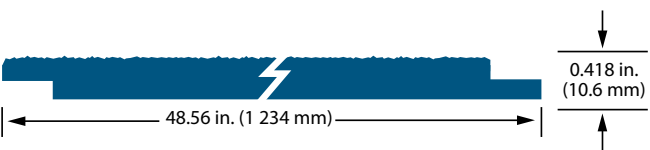
38 SERIES CEDAR TEXTURE PANEL – NO GROOVE



190 SERIES CEDAR TEXTURE PANEL 8" O.C.



76 SERIES CEDAR TEXTURE PANEL – NO GROOVE



DESCRIPTION	LENGTH	GROOVE	GROOVE WIDTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Cedar Texture Panel 8" o.c.	6 ft. (72 in.)(1.8 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	27805	1.5 PSF
	7 ft. (84 in.)(2.1 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	27806	1.5 PSF
	8 ft. (96 in.)(2.4 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	25840	1.5 PSF
	9 ft. (108 in.)(2.7 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	25843	1.5 PSF
	10 ft. (120 in.)(3.0 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.354 in. (9 mm)	25844	1.5 PSF
38 Series Cedar Texture Panel No Groove Shiplap Edge**	8 ft. (96 in.)(2.4 m)	No Groove	N/A	48.56 in. (1 234 mm)	0.354 in. (9 mm)	25855 *	1.5 PSF
	9 ft. (108 in.)(2.7 m)	No Groove	N/A	48.56 in. (1 234 mm)	0.354 in. (9 mm)	29189 *	1.5 PSF
	10 ft. (120 in.)(3.0 m)	No Groove	N/A	48.56 in. (1 234 mm)	0.354 in. (9 mm)	25825 *	1.5 PSF
38 Series Cedar Texture Siding and Soffit Panel No Groove Square Edge**	8 ft. (96 in.)(2.4 m)	No Groove	N/A	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41044	1.5 PSF
76 Series Cedar Texture Panel 4" and 8" o.c.	8 ft. (96 in.)(2.4 m)	4 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25831	1.5 PSF
	9 ft. (108 in.)(2.7 m)	4 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25832 *	1.5 PSF
	8 ft. (96 in.)(2.4 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25848	1.5 PSF
	9 ft. (108 in.)(2.7 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25850	1.5 PSF
	10 ft. (120 in.)(3.0 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25851	1.5 PSF
76 Series Cedar Texture Panel No Groove Shiplap Edge**	8 ft. (96 in.)(2.4 m)	No Groove	N/A	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25856	1.5 PSF
	9 ft. (108 in.)(2.7 m)	No Groove	N/A	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25857	1.5 PSF
	10 ft. (120 in.)(3.0 m)	No Groove	N/A	48.56 in. (1 234 mm)	0.418 in. (10.6 mm)	25858	1.5 PSF
190 Series Cedar Texture 8" o.c.	8 ft. (96 in.)(2.4 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.578 in. (14.7 mm)	25852	2 PSF
	9 ft. (108 in.)(2.7 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.578 in. (14.7 mm)	25853 *	2 PSF
	10 ft. (120 in.)(3.0 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1 234 mm)	0.578 in. (14.7 mm)	25854 *	2 PSF

*Special order item. Requires minimum quantity and extended lead times.
**Coordinates with LP SmartSide Trim for board and batten applications.

Specifications: LP® SmartSide® Panel Siding Coverage

Panel Siding	Reveal (size)			
Area (sq. ft.)	4' x 8'	4' x 9'	4' x 10'	4' x 12'
100	4 pcs.	3 pcs.	3 pcs.	3 pcs.
200	7 pcs.	6 pcs.	5 pcs.	5 pcs.
300	10 pcs.	9 pcs.	8 pcs.	7 pcs.
400	13 pcs.	12 pcs.	10 pcs.	9 pcs.
500	16 pcs.	14 pcs.	13 pcs.	11 pcs.
600	19 pcs.	17 pcs.	15 pcs.	13 pcs.
700	22 pcs.	20 pcs.	18 pcs.	15 pcs.
800	25 pcs.	23 pcs.	20 pcs.	17 pcs.
900	29 pcs.	25 pcs.	23 pcs.	19 pcs.
1000	32 pcs.	28 pcs.	25 pcs.	21 pcs.
1500	47 pcs.	42 pcs.	38 pcs.	32 pcs.
2000	63 pcs.	56 pcs.	50 pcs.	42 pcs.
2500	79 pcs.	70 pcs.	63 pcs.	53 pcs.
3000	94 pcs.	84 pcs.	75 pcs.	63 pcs.
3500	110 pcs.	98 pcs.	88 pcs.	73 pcs.
4000	125 pcs.	112 pcs.	100 pcs.	84 pcs.
4500	141 pcs.	125 pcs.	113 pcs.	94 pcs.
5000	157 pcs.	139 pcs.	125 pcs.	105 pcs.

CEDAR TEXTURE TRIM

THE CLASSIC APPEARANCE OF CEDAR

- Exterior use, including corner boards, windows and doors
- Narrow widths for more design flexibility
- Primed for exceptional paint adhesion
- 16’ length can result in faster installation and fewer seams
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay



Cedar Texture

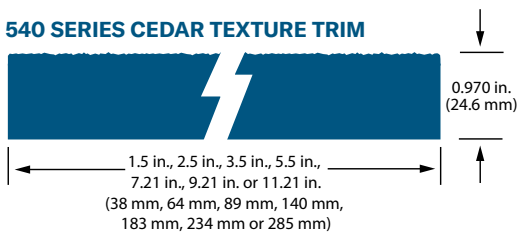
190 SERIES CEDAR TEXTURE TRIM



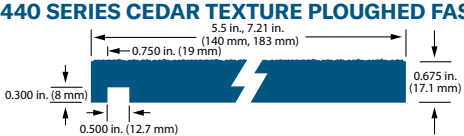
440 SERIES CEDAR TEXTURE TRIM



540 SERIES CEDAR TEXTURE TRIM



440 SERIES CEDAR TEXTURE PLOUGHED FASCIA



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	28448	2 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.578 in. (14.7 mm)	28450	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.578 in. (14.7 mm)	28452	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	1.50 in. (38 mm)	0.675 in. (17.1 mm)	25877	2 PSF
	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.675 in. (17.1 mm)	25878	2 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	25880	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	25882	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	25883	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	25884	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	25885	2 PSF
	16 ft. (192 in.)(4.9 m)	1.50 in. (38 mm)	0.970 in. (24.6 mm)	25886 *	3 PSF
	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.970 in. (24.6 mm)	25887 *	3 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	25888	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	25890	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	25891	3 PSF
440 Series Ploughed Fascia	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	25892	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	25893	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	27240 *	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	27819 *	2 PSF
	16 ft. (192 in.)(4.9 m)				
	16 ft. (192 in.)(4.9 m)				

*Special order item. Requires minimum quantity and extended lead times.

BRUSHED SMOOTH TRIM

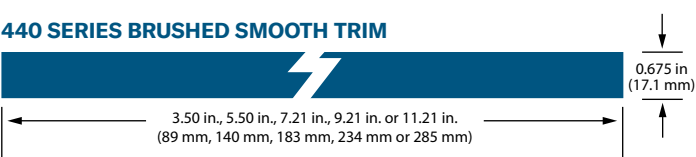
SMOOTH APPEARANCE, ADVANCED DURABILITY OF ENGINEERED WOOD

- Helps protect against moisture intrusion, impacts from hail, and damage from freeze/thaw cycles
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay
- 16’ length can result in faster installation and fewer seams
- Primed for exceptional paint adhesion
- Backed by an industry-leading 5/50-year limited warranty

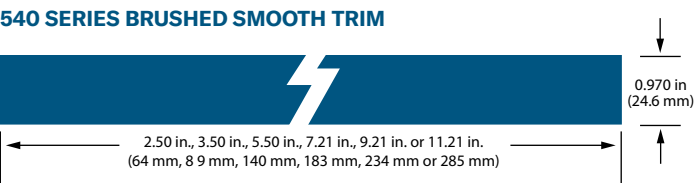


Brushed Smooth Trim

440 SERIES BRUSHED SMOOTH TRIM



540 SERIES BRUSHED SMOOTH TRIM



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46000	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46001	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46002	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46003	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46004	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.970 in. (24.6 mm)	46010	3 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45992	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45993	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45995	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45997	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45998	3 PSF

Specifications: LP® SmartSide® Soffit

CEDAR TEXTURE SOFFIT

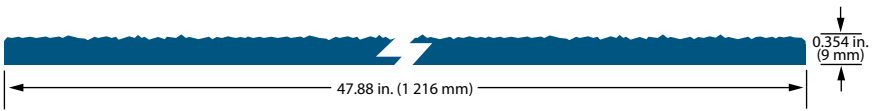
THE FINISHING TOUCH

- Cut-to-width can help to eliminate time spent cutting full sheets down to size
- 38 Series engineered for closed soffit applications
- 76 Series and 190 Series are ideal for use as the starter course for roofs with exposed eaves
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay

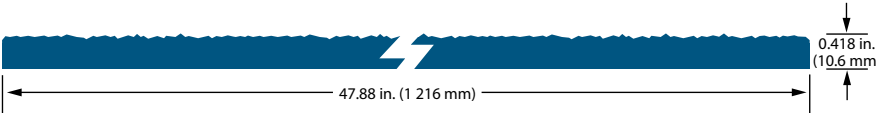


Cedar Texture

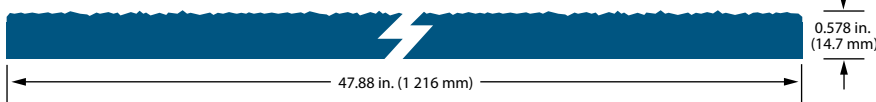
38 SERIES 4' x 8' CEDAR TEXTURE SOFFIT



76 SERIES 4' x 8' CEDAR TEXTURE SOFFIT



190 SERIES 4' x 8' CEDAR TEXTURE SOFFIT



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series 4' x 8' Cedar Texture Soffit	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	25813	-
38 Series Cedar Texture Siding and Soffit Panel	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.354 in. (9 mm)	41044	-
76 Series 4' x 8' Cedar Texture Soffit	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.418 in. (10.6 mm)	25814	-
190 Series 4' x 8' Cedar Texture Soffit	8 ft. (96 in.)(2.4 m)	47.88 in. (1 216 mm)	0.578 in. (14.7 mm)	25816 *	-
38 Series Cedar Texture Soffit – Cut-to-Width	16 ft. (192 in.)(4.9 m)	11.94 in. (303 mm)	0.354 in. (9 mm)	25805	-
	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	25806	-
	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	25807	-

*Special order item. Requires minimum quantity and extended lead times. | Metric units are rounded.

Specifications: LP® SmartSide® Soffit

VENTED SOFFIT

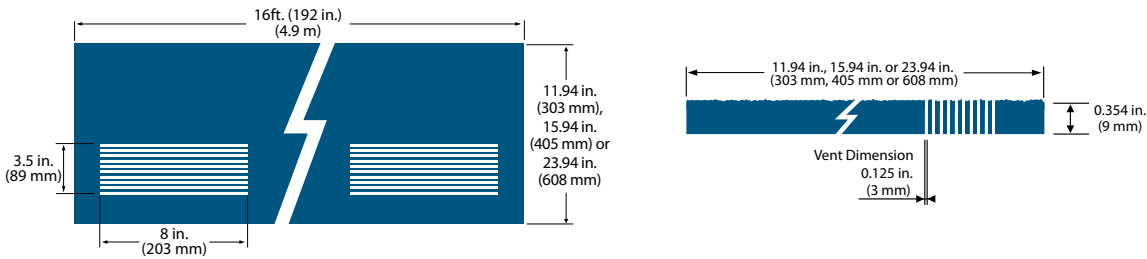
ENGINEERED TO CUT OUT PROBLEMS

- Precisely cut vents offer 5 and 10 square inches of ventilation per linear foot, providing more options to meet code requirements while adding architectural beauty
- Promotes continuous airflow
- 1/8" vents to help keep hornets and bees out
- Eliminates time spent ripping full sheets
- Treated with the SmartGuard® process for superior protection and resistance against the weather, fungal decay and termites



Cedar Texture

38 SERIES VENTED CEDAR TEXTURE SOFFIT – CUT-TO-WIDTH



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series 5" Vented Cedar Texture Soffit – Cut-to-Width	16 ft. (192 in.)(4.9 m)	11.94 in. (303 mm)	0.354 in. (9 mm)	45450	-
	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	45451	-
38 Series 10" Vented Cedar Texture Soffit – Cut-to-Width	16 ft. (192 in.)(4.9 m)	11.94 in. (303 mm)	0.354 in. (9 mm)	25822	-
	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	25823	-
	16 ft. (192 in.)(4.9 m)	23.94 in. (608 mm)	0.354 in. (9 mm)	25824	-

Specifications: LP® SmartSide® Vertical Siding

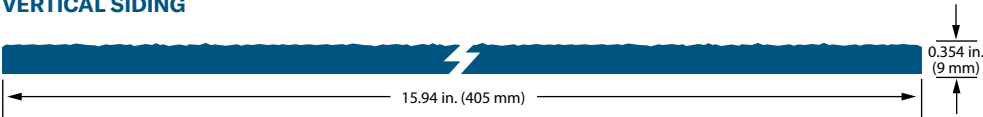
VERTICAL SIDING

CREATE THE STYLISH APPEARANCE OF BOARD AND BATTEN

- 16’ lengths can eliminate horizontal joints
 - Coordinates with LP SmartSide Trim
 - Primed for exceptional paint adhesion
 - Not rated for structural use
 - Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay
 - Sheathing-only attachment
- 

Cedar Texture

VERTICAL SIDING



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Cedar Texture Vertical Siding	16 ft. (192 in.)(4.9 m)	15.94 in. (405 mm)	0.354 in. (9 mm)	40503	1.5 PSF

Specifications: LP® SmartSide® Vertical Siding Coverage

Vertical Siding	Reveal (size)
Area (sq. ft.)	15-15/16" (16")
100	5 pcs.
200	10 pcs.
300	15 pcs.
400	19 pcs.
500	24 pcs.
600	29 pcs.
700	33 pcs.
800	38 pcs.
900	43 pcs.
1000	48 pcs.
1500	71 pcs.
2000	95 pcs.
2500	118 pcs.
3000	142 pcs.
3500	165 pcs.
4000	189 pcs.
4500	212 pcs.
5000	236 pcs.

Specifications: LP® SmartSide® Accessories

J-BLOCKS

A COHESIVE LOOK FOR HOME EXTERIORS

- Easier installation
 - Primed for exceptional paint adhesion
 - Available in cedar texture
 - Used to easily and attractively mount light fixtures, water faucets and more
 - Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay
 - Backed by a 5/10-year limited warranty
- 

Cedar Texture

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER
Cedar Texture 7.25" x 7.25" J-Block	7.21 in. (183 mm)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	43509

MINI-SPLITS

EASIER INSTALLATION FOR EXTERIOR FEATURES

- Easier installation (can be separated for specific mount sizes)
 - Primed for exceptional paint adhesion
 - Available in cedar texture
 - Used to easily and attractively mount light fixtures, water faucets and more
 - Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay
 - Backed by a 5/10-year limited warranty
- 

Cedar Texture

DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER
Cedar Texture 7.25" x 6.75" Mini Split	7.21 in. (183mm)	6.75 in. (171 mm)	0.970 in. (24.6 mm)	43510

BUILD BETTER WITH LP BUILDING SOLUTIONS

Building a Better World™

LP's mission is to provide an innovative and sustainable portfolio of high-quality products that help our customers build beautiful, durable homes and structures. With a united spirit of discovery, LP is forging ahead with innovative ideas to create new products that make a difference in the world.

LP WeatherLogic® Air & Water Barrier

LP WeatherLogic Air & Water Barrier provides moisture management technology for a better build. To protect against air and water during construction and for years to come, LP WeatherLogic Air & Water Barrier creates a tight building envelope, installs easily, and keeps the jobsite clean.

LP® TechShield® Radiant Barrier

The original, #1 brand of radiant barrier, LP TechShield Radiant Barrier may reduce monthly cooling costs by blocking up to 97% of the radiant heat in the panel from emitting into a home's attic, lowering attic temperatures by up to 30° F.

LP Legacy® Premium Sub-Flooring

LP Legacy Premium Sub-Flooring uses Gorilla Glue Technology® for one of the strongest, stiffest sub-floors. The resin in Gorilla Glue Technology binds wood fibers at the molecular level for premium performance.

LP® FlameBlock® Fire-Rated Sheathing

LP FlameBlock Fire-Rated Sheathing has structural design values equal to standard sheathing in the same performance category. ICC-certified (ESR-1365) per AC264 with a Class A and 30-minute Flame Spread Rating (ASTM E84), it combines fire resistance and impressive structural performance in a single panel.

LP® ArchForm™ Concrete Edge Form

LP ArchForm Concrete Edge Form is an engineered wood product designed for use in flatwork concrete forming applications, such as residential landscaping, patios, walkways, pool decks and more. It is flexible enough for curving to fit the contours of formed concrete projects and is backed by LP's industry-leading technology, service and support.



For more information, visit LPCorp.com/SmartSide

 **WARNING:** Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

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38, 76 AND 190 SERIES CEDAR TEXTURE, BRUSHED SMOOTH, OR PEBBLED STUCCO PRIMED PANEL SIDING (including SilverTech® & SmartFinish®)

LOUISIANA-PACIFIC CORPORATION PERIODICALLY UPDATES AND REVISES ITS PRODUCT INFORMATION AND APPLICATION, CARE, AND MAINTENANCE INSTRUCTIONS. WARRANTY REMEDIES ARE NOT AVAILABLE IF THESE INSTRUCTIONS ARE NOT FOLLOWED. THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

FIND ALL LP® SMARTSIDE® PRODUCT LITERATURE AT LPCORP.COM/SMARTSIDE

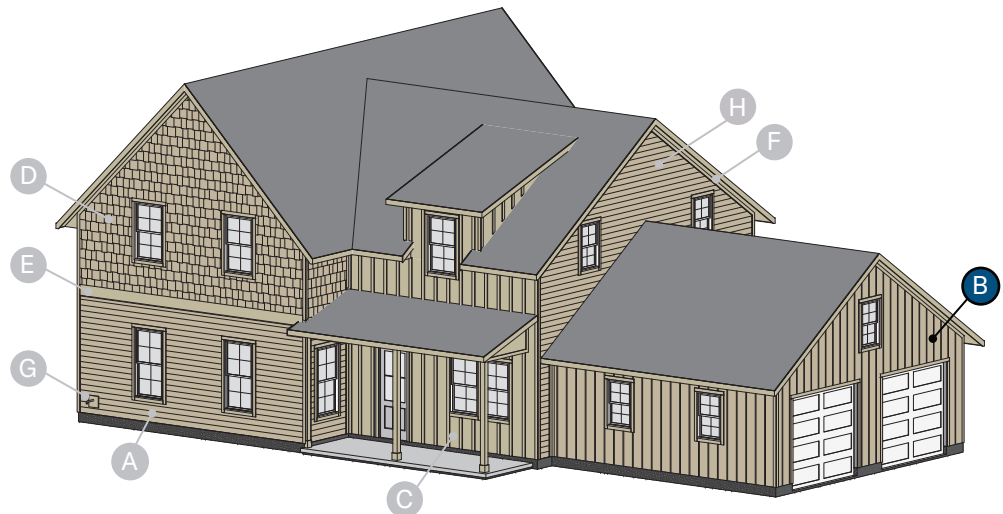
LP® SmartSide® Trim and Siding is covered under the LP® SmartSide® Prorated 50-Year Limited Warranty. Refer to the warranty, which is available online, for complete terms and conditions. Product must be transported, stored, handled, installed, finished, and maintained in accordance with all published application, finishing, care, and maintenance instructions and technical notes and bulletins (collectively, "Instructions") in effect at the time of installation.

Failure to follow such Instructions will make the Limited Warranty inapplicable as to the products affected by such failure. No modification or exception to these Instructions and no non-published recommendations are valid unless issued in writing on a project-specific basis by LP's Director of Technology prior to application. Always check and comply with local building codes. Even where these instructions approve installation over certain substrates or incorporate requirements of building codes, LP's liability for the performance of the product is limited as expressly provided in the Limited Warranty.

⚠ WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to P65Warnings.ca.gov/wood-dust.

PRODUCT LEGEND

- A** LP® SmartSide® Lap Siding
- B** LP® SmartSide® Panel Siding
- C** LP® SmartSide® Vertical Siding
- D** LP® SmartSide® Cedar Shake
- E** LP® SmartSide® Trim & Fascia
- F** LP® SmartSide® Soffit
- G** LP® SmartSide® Accessories
- H** LP® SmartSide® Nickel Gap Siding



GENERAL INFORMATION

HANDLING

- Handle siding with care during storage, temporary placement, and application.
 - Additional care is required to ensure shiplap edges are not damaged.

STORAGE

- Store siding:
 - Under a roof or waterproof covering (like unit cover/bonnet).
 - Off the ground, on a flat-drained surface using supports that provide a min. 1-1/2 inch (38 mm) clearance from surface.
 - This includes when staging siding around jobsite during installtion.
- LP is not responsible for damage due to improper handling and storage of the siding.



BEFORE YOU BEGIN

- At the time of manufacture, siding meets or exceeds the performance standards set forth in ICC-ES AC321 and has achieved recognition under PR-N124, ESR-1301, CCMC 11826-L, FL#9109 and HUD-MR-1318d. For copies of product approvals go online at <https://lpcorp.com/product-literature> or call LP Customer Support at 888-820-0325.

GENERAL INFORMATION (CONT'D.)

- Where siding butts window trim, door casings, butt joints, etc. leave a 3/16 inch (5 mm) gap and seal.
 - A larger gap is required when siding is adjacent to stucco, brick, cultured stone, mortar, etc. (Figure 6b, 6c, 6d)
- Panel siding with SilverTech® or SmartFinish® is developed specifically for sheds and other accessory structures where the interior wall cavities are without insulation or wall finishes.
 - For non-residential use only.
- No Groove square edge panel siding may be installed vertically or horizontally.
- Shiplap edge panel siding is limited to vertical applications. (Figure 2a, 2b)
 - Exception: Panel siding installed in metal trim systems as outlined in [Technical Note #015](#).
- Siding applied adjacent to surfaces such as porches, patios, balconies, or walking surfaces (including porch columns) must have a clearance of at least 1 inch (25 mm) above horizontal surface.
 - Clearance may be reduced to 3/8 inch (10 mm) for:
 - Porches, patios, balconies, or walking surfaces that slope away from the structure or the surface provides gaps that allow water to flow through so that it cannot accumulate, and is covered by a roof, not an eave or overhang; or
 - Porch columns with walking surfaces that slope away from the structure or the surface provides gaps that allow water to flow through so that it cannot accumulate.
- All wood substrate directly exposed to the weather must be sealed to prevent moisture intrusion and water build up.
 - Seal ALL exposed cuts of siding and trim. Field spray applied coatings on cuts are not recommended.
 - Sealing can be accomplished by applying a paint or sealant according to the manufacturer's requirements.
- See **Alternate Fastening Options** on page 8 for attaching siding to wood structural panel (WSP) sheathing or SIP assemblies.
- LP does not recommend panel siding for use over furring strips/strapping or in ICF assemblies. If used, LP will **NOT** warrant for Buckling.
 - [Exception: Panel siding may be applied to furring in Canada.]
 - [See **Alternate Fastening Options** starting on page 8 for attaching panel cladding over furring in Canada.]

TRIM

- Use LP® SmartSide® 540 Series or 440 Series trim so the panel siding does not extend beyond the face of the trim.
 - 190 Series trim may be used when applying trim on top of siding.
- See page 11 for PREFERRED and ALTERNATE details for Outside and Inside Corner Trim. (Figure 11d, 11e, 11f, 11g)

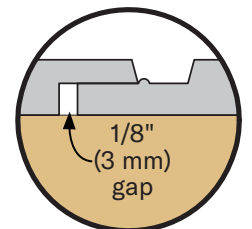
PANEL EDGE PROFILES

- Panel siding products are available in 3 edge profiles:

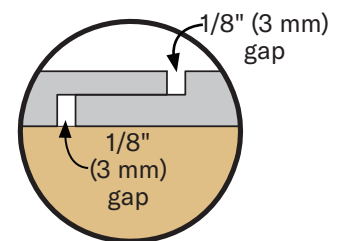
- Shiplap edge with alignment bead profile applies to the following siding products (Figure 2a):
 - 4 inch (102 mm) o.c. and 8 inch (203 mm) o.c. grooved panel

- Shiplap edge without alignment bead applies to the following siding product (Figure 2b):
 - No groove panel

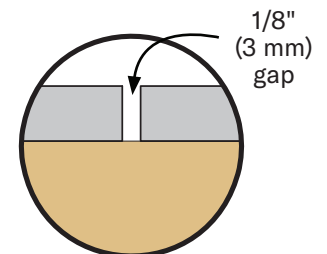
- Square edge profile applies to the following siding products (Figure 2c):
 - No groove panel
 - Dual-use panel siding/soffit:
 - PID# 41044** - 38 Series Cedar Texture 4' x 8' (1 219 mm x 2 438 mm)
 - PID# 46050** - Pebbled Stucco 3/8" x 4' x 10' (10 mm x 1 219 x 3 048 mm)
 - PID# 46051** - Pebbled Stucco 3/8" x 4' x 9' (10 mm x 1 219 mm x 2 743 mm)



Shiplap Edge
with Alignment Bead
Figure 2a



Shiplap Edge
without Alignment Bead
Figure 2b



Square Edge
Figure 2c

MOISTURE

- Moisture and vapor control are critical elements of proper housing design.
 - Check your local building code for requirements for handling moisture and water vapor in your area.
 - Do not apply engineered wood siding to a structure having excessive moisture conditions such as drying concrete, plaster, or wet blown cellulose insulation.
 - If such conditions exist, building should be well ventilated to allow to dry prior to siding application.
 - When using wet blown cellulose insulation it must not be in direct contact with the siding, and it must be allowed to dry a min. of 24 hours or longer if specified by the insulation manufacturer.
- Siding must not be installed on green or crooked studs.
 - If studs are crooked, shim to maintain siding flatness.
- Do not apply siding over rain-soaked or buckled sheathing.
- Siding must not be in direct contact with CMU, poured concrete, brick, cultured stone, stucco, mortar, etc.

WATER-RESISTIVE BARRIER (WRB)

- A properly installed WRB is required behind siding, unless exempt by building code.
- LP assumes no liability for moisture intrusion or any other issues associated with the WRB.
- Sheds and other accessory structures where the interior wall cavities will remain permanently exposed may use LP SmartSide panel siding with SilverTech® or SmartFinish® without a WRB, if allowed by local building code.

FLASHING

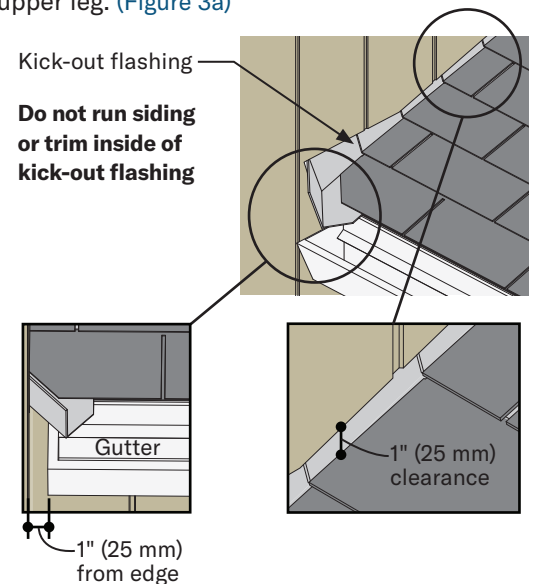
- All openings must be properly sealed or flashed in a manner that prevents moisture intrusion or buildup.
- Flashing shall be metal or another durable material that will last for not less than 50 years.
- Install step flashing at roof-to-wall intersections with a min. 4 inch (102 mm) upper leg. (Figure 3a)
- All other flashing must have a min. 4 inch (102 mm) upper leg.
 - Add 4 inch (102 mm) wide adhesive flashing when upper leg is less than 4 inches (102 mm).
- Properly integrate flashing with WRB, use flashing tape or WRB to maintain counterflashing principle.

KICK-OUT FLASHING

- Install kick-out flashing at roof eave-to-wall intersections to direct water into gutter.
- DO NOT extend siding or trim into kick-out flashing or gutter.**
- Maintain 1 inch (25 mm) clearance between the end of the gutter and the adjoining wall to allow for proper maintenance of siding. (Figure 3c)

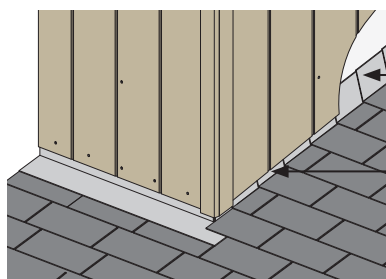
ROOF TO WALL INTERSECTION

- Maintain 1 inch (25 mm) clearance between siding and roofing, or trim and roofing. *[Min. 50 mm (2 inch) clearance at intersection with roof line must be maintained between roof surface and cladding when installing cladding in Canada in accordance with the NBC, Section 9.27.2.4.(2) or local building code requirements.]* (Figure 3a, 3b)



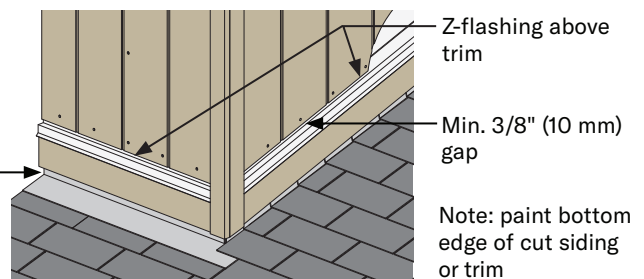
Kick-out Flashing

Figure 3c



Siding without Trim

Figure 3a



Siding with Trim

Figure 3b

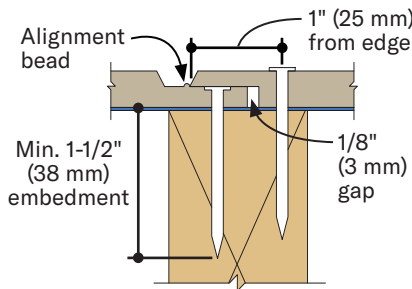
FASTENING INSTRUCTIONS

STUD SPACING OPTIONS

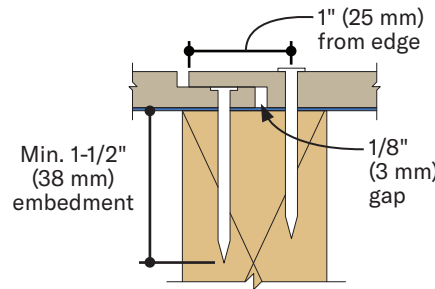
- 38 & 76 Series Panel Siding may be attached **direct to studs** spaced max. 16 inches (406 mm) o.c.
- 190 Series Panel Siding may be attached **direct to studs** spaced max. 24 inches (610 mm) o.c.
- Siding may be attached **directly to a min. 7/16 Category wood structural panel (WSP) sheathing**, with studs spaced a max. 24 inches (610 mm) o.c.

DIRECT TO STUDS APPLICATION

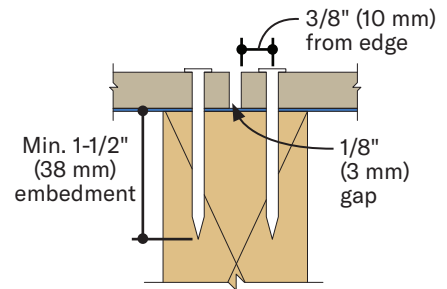
- Align the overlap edge of panel to outside edge of the alignment bead. (Figure 3a, 3d)
 - Doing so will maintain the 1/8 inch (3 mm) expansion gap on the back side of the panel seam.
- Penetrate studs or combination of WSP sheathing and studs a min. of 1-1/2 inches (38 mm).
 - Fasten siding using a min. 6 and 12 nailing pattern. This requires one fastener every 6 inches (152 mm) o.c. along the perimeter and 12 inches (305 mm) o.c. in the field.
 - A tighter nail pattern of 6 and 6, or a longer nail embedment of 2 inches (51 mm) may be required depending on the wind pressure, wind speed and wind exposure Category limitations in PR-N124.
- A reduction in allowable racking shear capacity is required in Table 1 of both [PR-N124](#) and [ESR-1301](#) when using panel siding with a shiplap edge.
- In braced wall assemblies:
 - Use a min. (0.113 inch shank diameter) hot-dip galvanized (ASTM A153) or equivalent nail for 38 and 76 Series panel siding.
 - Use a min. (0.131 inch shank diameter) hot-dip galvanized (ASTM A153) or equivalent nail for 190 Series panel siding.
 - When using panel siding as **both** wall bracing and siding consult Table 1 of PR-N124 or ESR-1301 for fastener spacing; or consult a design professional.
- In non-braced wall assemblies:
 - A min. 0.092 inch smooth shank diameter nail may be substituted depending on the wind pressure, wind speed and wind exposure category limitations in PR-N124 or ESR-1301.
- For **38 Series** shiplap edge panel, the **double nailing** procedure meets wall bracing requirements for 5/16 Category shear wall design value in Table 1 of PR-N124 or ESR-1301. (Figure 3a, 3b)
 - Exception: 38 Series square edge panel **single nailing** procedure meets wall bracing requirements for 3/8 Category shear wall design value in Table 1. (Figure 3c)



Double nailing option
Figure 3a

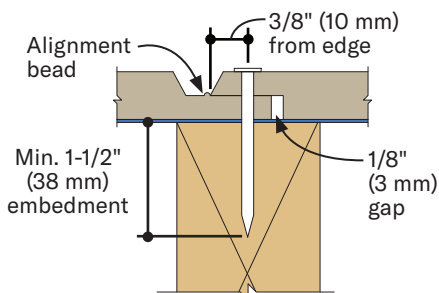


Double nailing option
Figure 3b

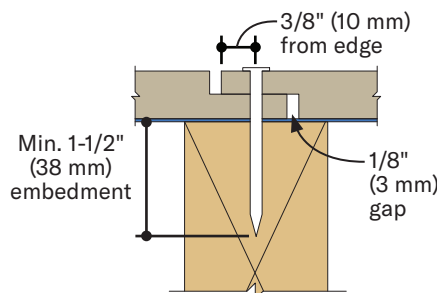


Single nailing option
Figure 3c

- For **76 and 190 Series** shiplap edge panel **single nailing** procedure meets wall bracing requirements for 5/16 Category shear wall design value in Table 1 of PR-N124 or ESR-1301. (Figure 3d, 3e)
 - To meet the equivalent 3/8 Category shear wall design value, **double nailing** must be used. (Figure 3a)



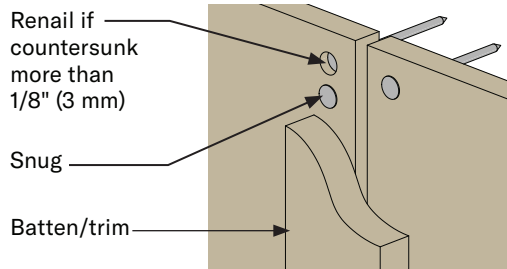
Single nailing option
Figure 3d



Single nailing option
Figure 3e

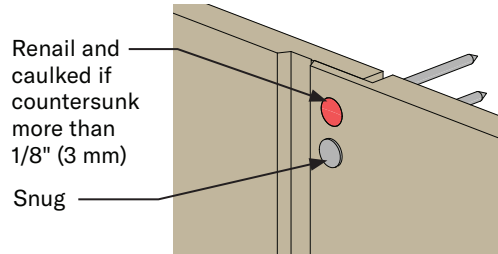
FASTENING INSTRUCTIONS (CONT'D.)

- Do not overdrive nails.
 - Nail head should seat snug to face of siding, but not flush to distort the siding surface.
 - Countersunk is considered overdriven.
 - **Blind nails:** re-nailing will be required when nailhead is countersunk more than 1/8 inch (3 mm). (Figure 5a)
 - **Face nails:** will occur immediately below window sills, soffit, frieze boards, and horizontal trim.
 - Renail and caulk if overdriven more than 1/8 inch (3 mm). (Figure 5b)
- Painting all exposed nail heads is recommended.



BLIND NAILED CONDITION

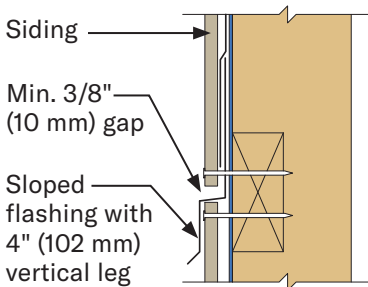
Figure 5a



FACE NAILED CONDITION

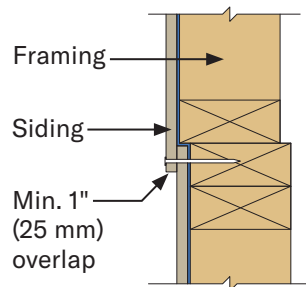
Figure 5b

HORIZONTAL PANEL SEAM DETAILS



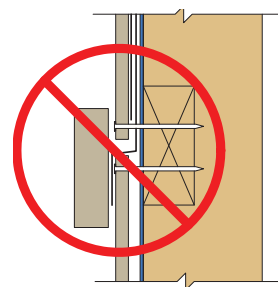
Flashing Detail at Horizontal Panel Seam

Figure 5c



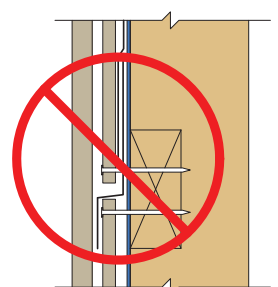
Overlap Detail at Horizontal Panel Seam

Figure 5d



Do Not Install Trim at Horizontal Panel Seam

Figure 5e

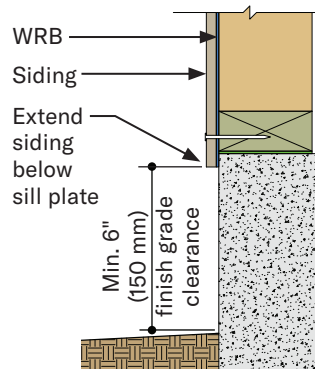


Do Not Span Batten over Horizontal Panel Seam

Figure 5f

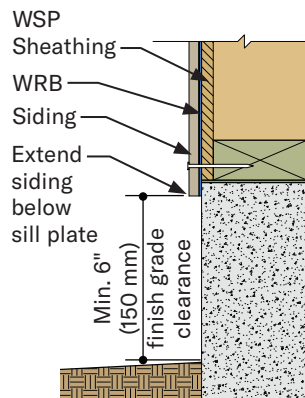
CLEARANCE & SEPARATION GUIDELINES

- Min. 6 inch (152 mm) clearance must be maintained between siding and finish grade (ground cover). *[Min. 200 mm (8 inch) clearance must be maintained between cladding and finish ground when installing cladding in Canada in accordance with NBC, Section 9.27.2.4.(1) or local building code requirements.]*
- Provide separation between back of siding and concrete or masonry foundation. Separation can be achieved using a WRB, flashing, or similar product. (Figures 5g, 5h)



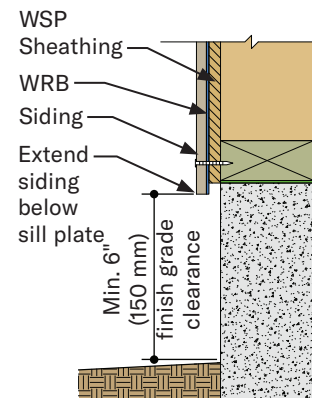
Direct to Stud Attachment

Figure 5g



Direct to Stud w/WSP Attachment

Figure 5h



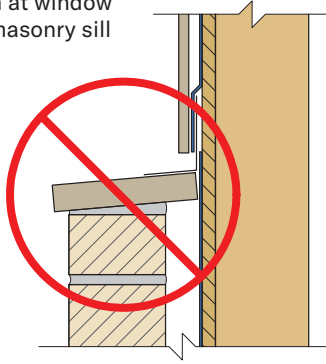
WSP Sheathing Attachment

Figure 5i

SIDING OR TRIM ADJACENT TO STUCCO/MASONRY

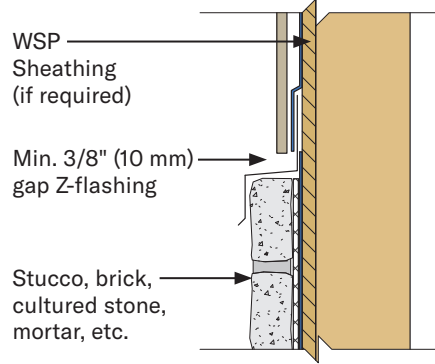
- Where siding is installed adjacent to stucco, brick, cultured stone, mortar, etc.
 - Leave a 3/8 inch (10 mm) gap and caulk.
 - Backer rod may be required by caulking manufacturer.

Do not install LP® SmartSide® trim at window or masonry sill



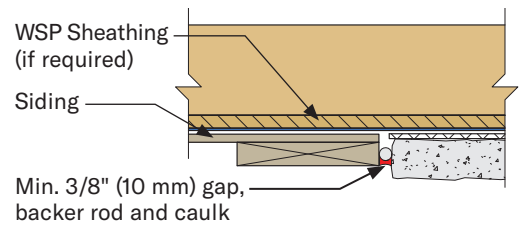
Section View

Figure 6a



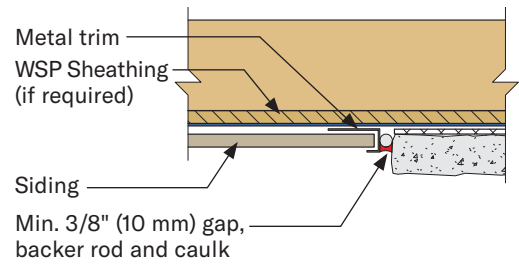
Section View

Figure 6b



Plan View

Figure 6c

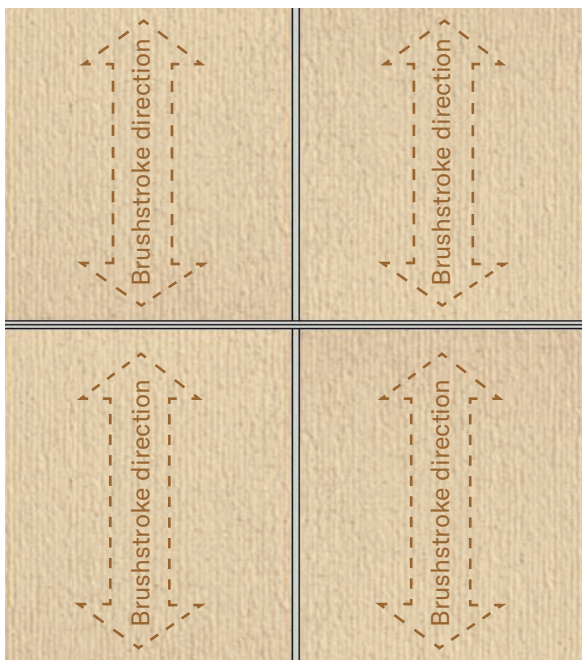


Plan View - Metal Trim

Figure 6d

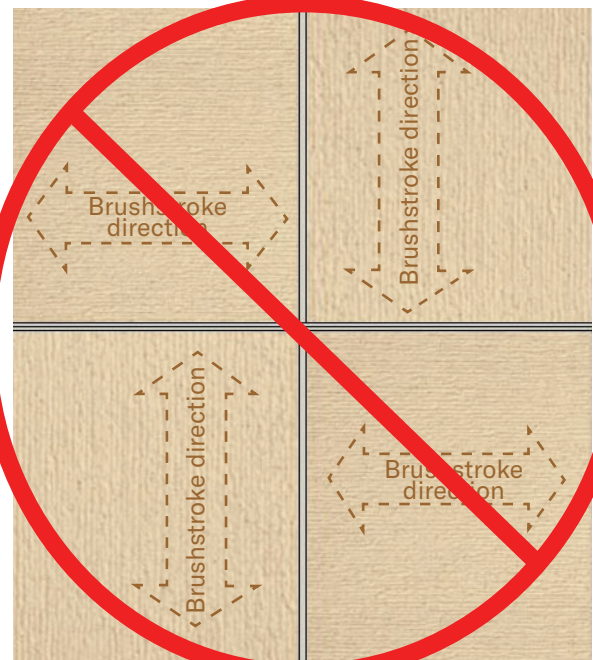
SIDING TEXTURE ORIENTATION

- Cedar Texture, Brushed Smooth or Pebbled Stucco with square edges may be installed in either the horizontal or vertical orientation when applied with metal trim systems. ([Technical Note #015](#))
- For a consistent finish appearance, ensure Cedar Texture or Brushed Smooth panel is installed in the same orientation.
 - Cedar Texture has a texture that runs parallel to the long panel direction. Ensure texture is applied in the same direction.
 - Brushed Smooth has a subtle brushstroke texture, this texture runs parallel to the long panel direction and can be used to identify the panel orientation even after the panels have been reduced in size.
 - See [Figures 6d, 6e](#) showing directional arrows to familiarize yourself with this feature before beginning installation.
 - This requirement does not apply to Pebbled Stucco Panel Siding.



BRUSHED SMOOTH or CEDAR TEXTURE
Brushstroke Texture - Parallel

Figure 6d



BRUSHED SMOOTH or CEDAR TEXTURE
Brushstroke Texture - NOT Parallel

Figure 6e

FINISHING INSTRUCTIONS

- When caulk is required, use a high-quality, non-hardening, paintable sealant meeting ASTM C920, minimum Class 25.
 - Follow sealant manufacturer's instructions for application.
- Paint all exposed surfaces, including all drip edges or where water will hang. For best results, use a high-quality 100% acrylic exterior paint specially formulated for use on wood and engineered wood substrates; oil paint is acceptable.
 - DO NOT USE stain or vinyl-based paint.
 - Apply paint as soon as possible and within 180 days.

- Follow paint manufacturer's instructions for application.
- Follow LP's Care & Maintenance Instructions.

CEDAR TEXTURE Nickel Gap Siding:

- For best results use semi-gloss finish.

BRUSHED SMOOTH Nickel Gap Siding:

- Either flat, satin or semi-gloss coatings can be applied to brushed smooth finish lap siding.
- Each offers different appearance & maintenance benefits.

FASTENING OPTIONS OVER FOAM PLASTIC SHEATHING (RIGID FOAM INSULATION)

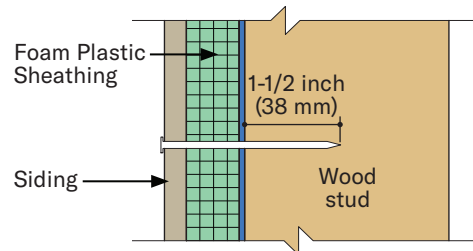
- Panel siding may be installed directly over foam plastic sheathing.

FOAM PLASTIC SHEATHING ≤ 1 INCH (25 MM)

- Increase nail length to ensure a min. 1-1/2 inch (38 mm) penetration into studs (Figure 7a), or combination of studs and WSP sheathing; or nail length long enough to fully penetrate sheathing a min. 1/4 inch (6 mm) for a sheathing only attachment. (Figure 7b)

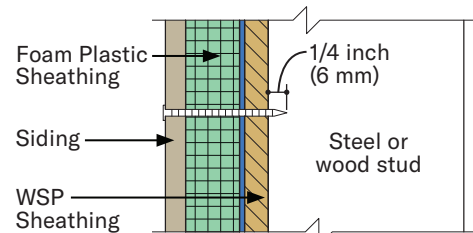
FOAM PLASTIC SHEATHING > 1 INCH (25 MM)

- Siding attachment: Refer to IRC Chapter 7, Wall Covering for prescriptive siding attachments over foam sheathing up to 4 inches (102 mm) thick, **direct to wood or steel studs** for support of siding weight only. **Does NOT include wind loads.**
 - Refer to Table 703.15.1 for min. fastening requirements over foam sheathing to wood studs.
 - Refer to Table 703.16.1 for min. fastening requirements over foam sheathing to steel studs.
- Fastener placement:
 - Nail spacing depends on siding attachment method;
 - Direct to Stud or WSP sheathing attachment, and
 - Wind load limitations in [PR-N124](#) or [ESR-1301](#).
- LP assumes no liability for loss or damage associated with fastening requirements of the applicable code.



Siding over Foam Plastic Sheathing to Wood Studs

Figure 7a



Siding over Foam Plastic Sheathing to WSP

Figure 7b

ADDITIONAL FASTENING OPTIONS

EXTERIOR GYPSUM SHEATHING

- Siding may be installed over a max. 1 inch (25 mm) exterior gypsum sheathing, according to the following:
 - Adequate bracing of the wall is provided in accordance with the local building code.
 - Nail length must be increased to ensure a min. penetration into wood studs, or combination of WSP sheathing and wood studs.

EXISTING WOOD SIDING OR WOOD COMPOSITE SIDING

- Siding may be installed over existing wood or wood composite siding, if the existing siding does not affect the ability to correctly install siding.
 - A properly installed WRB is required between the existing siding and the new siding.
 - A uniform surface behind siding is required to avoid contouring of siding.
 - Do not install over existing siding that is not flat or uniform.
 - Min. nail penetration and max. stud spacing must not be compromised.
 - Ensure wall assembly meets structural requirements specified in building code and by local code authority.
 - Repair any areas of the existing siding that are not structurally sound, not installed correctly, or exhibit signs of decay.

FIRE-RATING

CAL FIRE WUI

- California Building Code, Chapter 7A [SFM] Materials and Construction Methods for Exterior Wildfire Exposure compliance can be achieved using LP® SmartSide® panel siding installed as described in:
 - CAL FIRE BML# 8140-2027:0002 applies to 76 and 190 Series panel siding applied direct to studs.
 - This listing does not apply to 38 Series panel siding.

FIRE-RATED WALL ASSEMBLY

- LP SmartSide panel siding may be installed over the exterior portion of a 1-hour fire-resistive exterior wall assembly, including assemblies using gypsum wallboard listed in the Gypsum Association Fire Resistance Design Manual.
- For information on fire-rated wall assemblies: <https://lpcorp.com/products/panels-sheathing/fire-rated-osb-sheathing/assemblies>

ALTERNATIVE FASTENING OPTIONS

WOOD STRUCTURAL PANEL (WSP) SHEATHING OR SIP ASSEMBLIES

- WSP wall sheathing must be a min. 7/16 Category with APA Trademark Stamp that contains the consensus Standard DOC PS 1 or DOC PS 2. [In Canada in accordance with CSA O325 or CSA O437]
- Siding may be nailed to SIP assembly or WSP sheathing. (Figure 8a)
 - Min. 0.092 inch diameter **ring shank**, hot-dip galvanized nail (ASTM A153) or equivalent.
 - Nail length must be long enough to fully penetrate sheathing by at least 1/4 inch (6 mm).
 - Fasten in a grid pattern of a min. 8 inches (203 mm) o.c. up to a max. 16 inches (305 mm) o.c. depending on the wind pressure, wind speed and wind exposure category limitation in [PR-N124](#), Table 5a or 5b.
 - Ensure that the ring shanks of the nail fully engage the WSP sheathing.

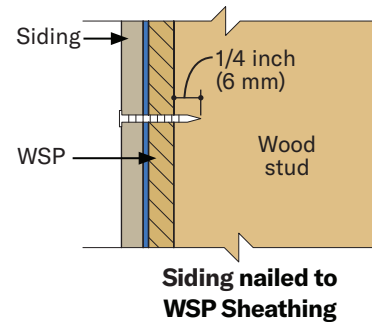


Figure 8a

STEEL STUD FRAMING - ONLY APPLIES TO FULLY SHEATHED WALLS

- WSP wall sheathing must be a min. 7/16 Category with APA Trademark Stamp that contains the consensus Standard DOC PS 1 or DOC PS 2. [In Canada in accordance with CSA O325 or CSA O437]
- Siding may be nailed to WSP sheathing. (Figure 8b)
 - Min. 0.092 inch diameter **ring shank**, hot-dip galvanized nail (ASTM A153) or equivalent.
 - Nail length must be long enough to fully penetrate sheathing by at least 1/4 inch (6 mm).
 - Ensure that the ring shanks of the nail fully engage the WSP sheathing.
 - Space fasteners according to the wind pressure, wind speed and wind exposure category limitations in [PR-N124](#), Table 4a or 4b.

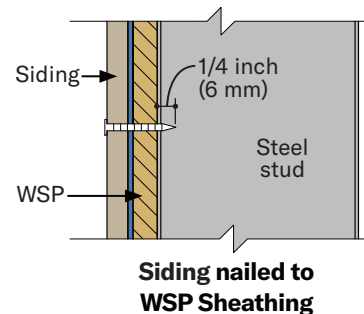


Figure 8b

PANEL CLADDING OVER FURRING IN CANADA

- Cladding must be installed over a min. 19 mm by 64 mm (3/4 inch x 2-1/2 inch) actual size furring members, when applied without sheathing, on supports spaced no more than 400 mm (16 inch o.c.). (Figures 9a, 9b, 9c, 9d)
- Current building science practices recommend ventilation at top & bottom of wall.
 - Openings at top and bottom of wall should be open to outside air and protected with insect screen. (Figures 10a, 10e)
 - Check with local building codes for additional requirements.
- Cladding shall be installed to safely resist all loads, including wind loads, of the locally adopted building codes. The installation of cladding shall result in a system that provides a load path that meets the requirements for the transfer of loads from the point of origin through the load-resisting elements to the structure. The mechanical connection of the furring to structure is the responsibility of a design professional. LP assumes no liability for any loss or damage caused by the design of the mechanical connection of the furring to the structure and is expressly released by the purchaser or owner from any such loss or liability.

PANEL CLADDING OVER FURRING IN CANADA (CONT'D.)

LIMITATIONS OF USE:

- For use in Canada only.
- Panel cladding cannot be used for lateral bracing with this attachment method.
- Attach LP® SmartSide® panel cladding to furring per Table 1:

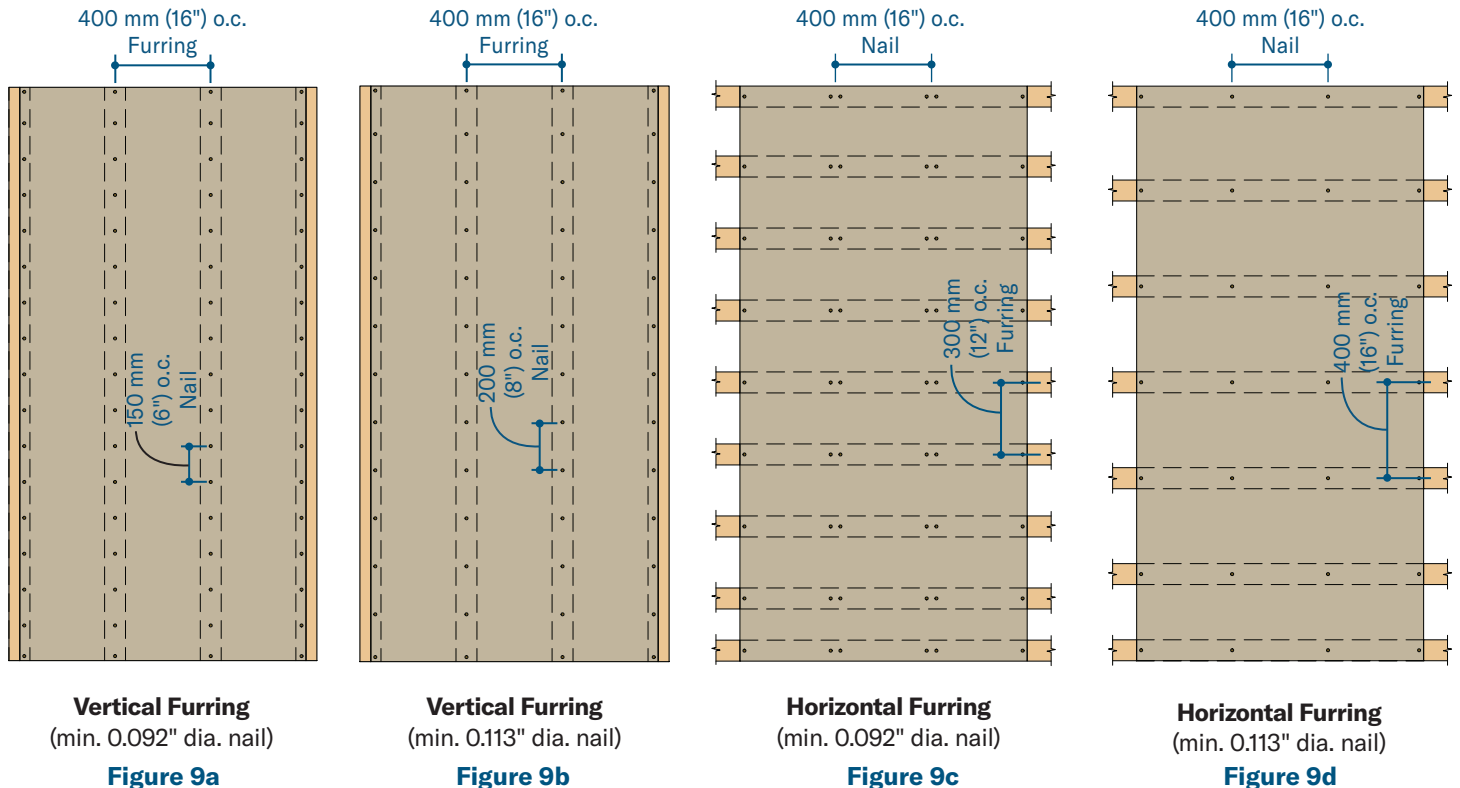
Table 1

Panel Cladding (Siding) Installed Vertically Meets Maximum Design Wind Speed of 32.4 m/s (72.5 mph) per 2015 National Building Code of Canada				
Panel Sizes	Furring ⁽¹⁾	Furring Spacing	Minimum Fastener Size	Fastener Spacing
1 234 mm x 2.4 m (4' x 8')	Vertical 19 mm x 64 mm (3/4" x 2-1/2") furring attached to framing ⁽²⁾	400 mm (16" o.c.)	0.092" x 51 mm (2") HDG ⁽³⁾ ring shank nail	One nail every 150 mm (6") o.c. into cladding and furring only (See Figure 9a)
1 234 mm x 2.7 m (4' x 9')			0.113" x 51 mm (2") HDG ⁽³⁾ ring shank nail	One nail every 200 mm (8") o.c. into cladding and furring only (See Figure 9b)
or	Horizontal 19 mm x 64 mm (3/4" x 2-1/2") furring attached to framing ⁽²⁾	300 mm (12" o.c.)	0.092" x 51 mm (2") HDG ⁽³⁾ ring shank nail	Two nails⁽⁴⁾ every 400 mm (16") o.c. into cladding and furring only (See Figure 9c)
1 234 mm x 3 m (4' x 10')		400 mm (16" o.c.)	0.113" x 51 mm (2") HDG ⁽³⁾ ring shank nail	One nail every 400 mm (16") o.c. into cladding and furring only (See Figure 9d)

Footnotes:

- (1) Furring shall be min. 19 mm by 64 mm (3/4"x 2-1/2") actual size with specific gravity of 0.42 or greater per AWC/NDS
- (2) The mechanical connection of the furring to structure is the responsibility of a design professional.
- (3) Fasteners shall meet or exceed the corrosion-resistance of hot-dip galvanized requirements of ASTM A153, Class D.
- (4) When double nailing, space fasteners a min. 6 mm (1/4") apart.

FURRING AND FASTENER SPACING



FASTENING TO VERICAL FURRING

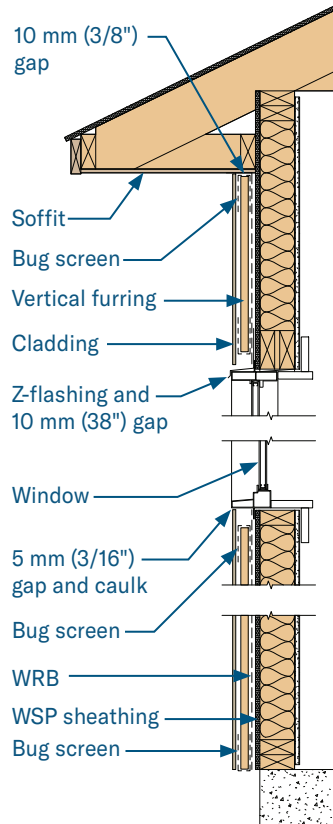


Figure 10a

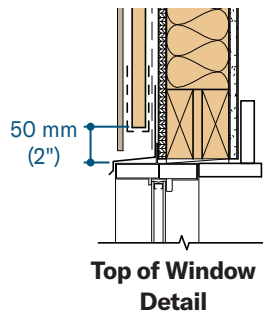


Figure 10b

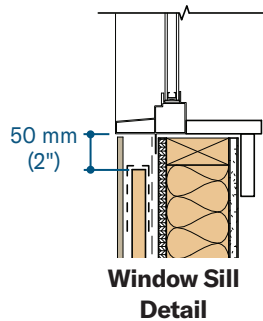


Figure 10c

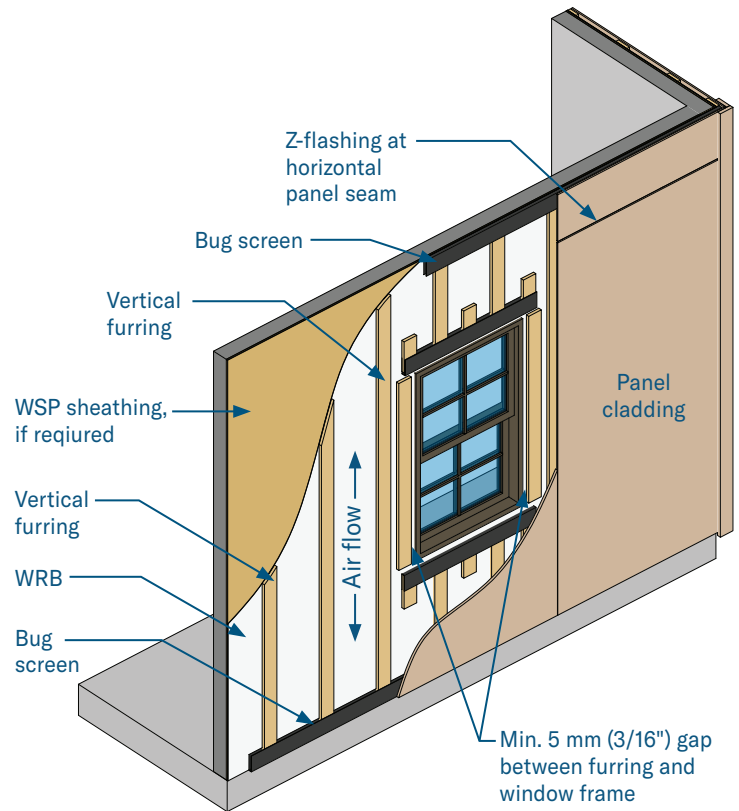


Figure 10d

FASTENING TO DOUBLE FURRING

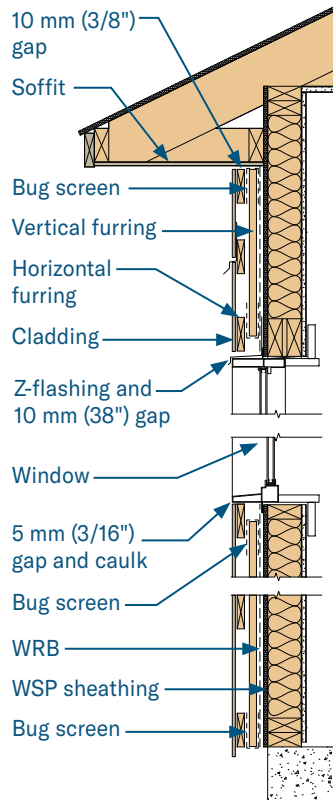


Figure 10e

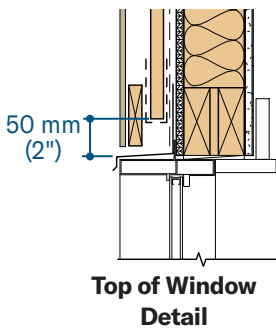


Figure 10f

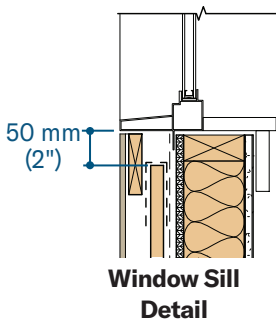


Figure 10g

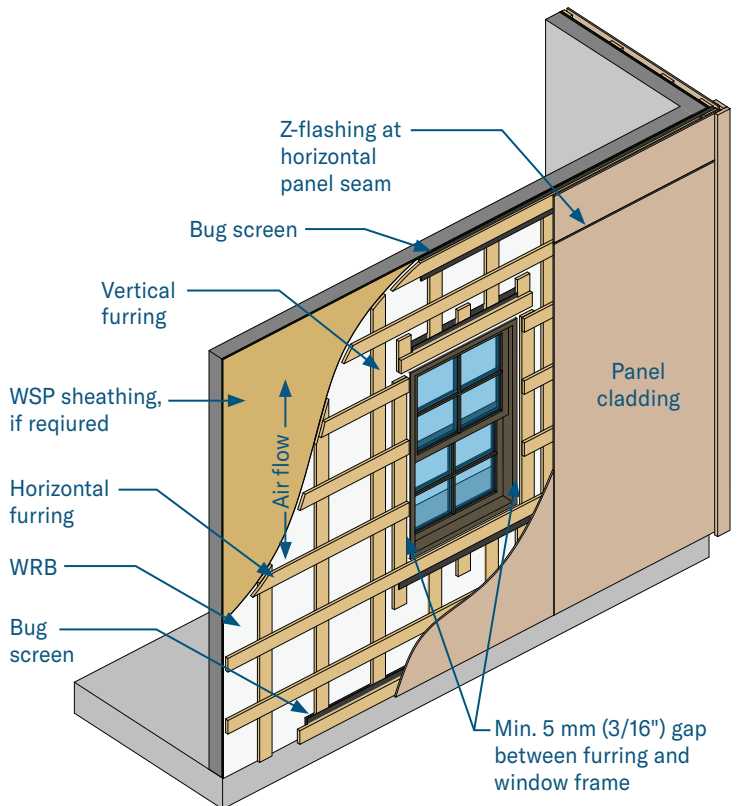
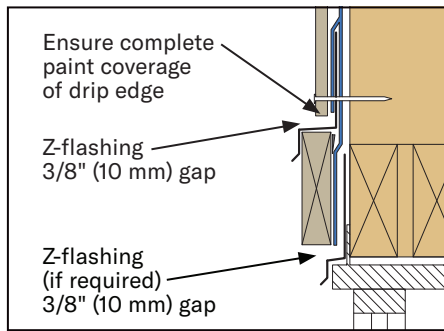
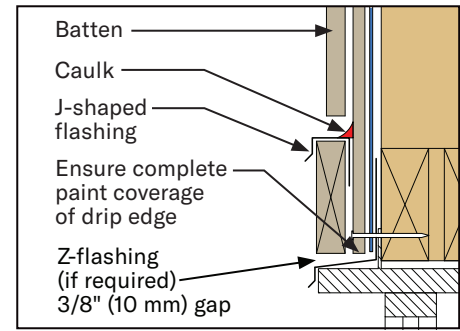


Figure 10h



**Z-FLASHING OVER
DOOR & WINDOW OPENINGS
PREFERRED**



**J-SHAPED FLASHING OVER
DOOR & WINDOW OPENINGS
ALTERNATE**

Figure 11a

Figure 11b

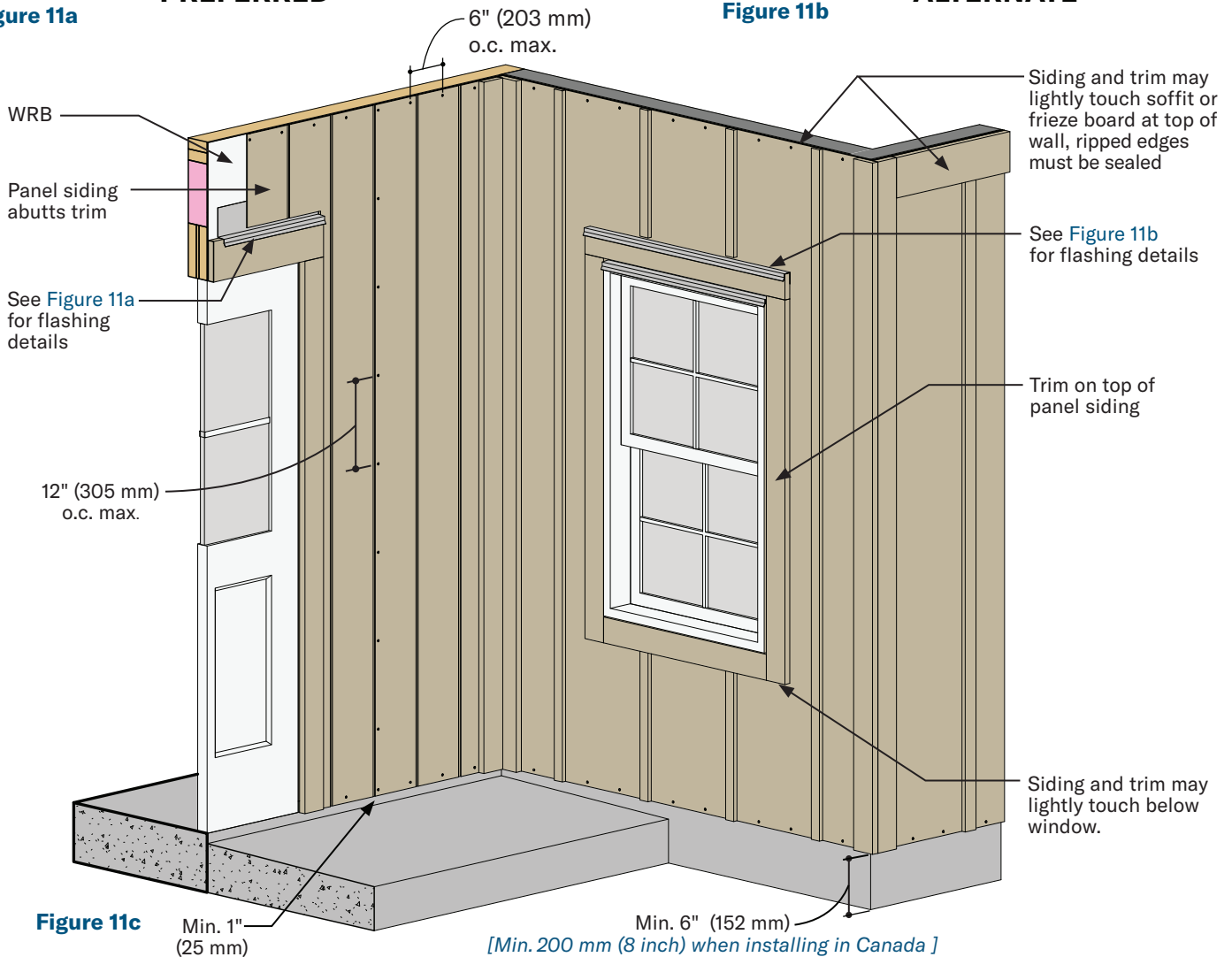
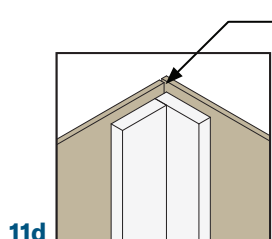
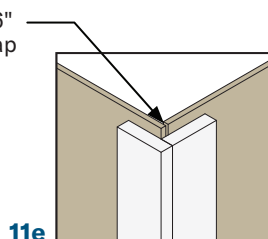


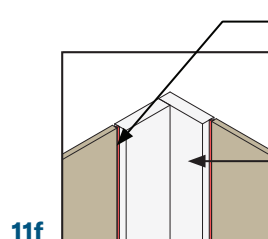
Figure 11c



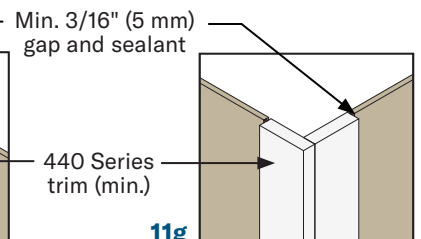
**INSIDE CORNER
PREFERRED**



**OUTSIDE CORNER
PREFERRED**



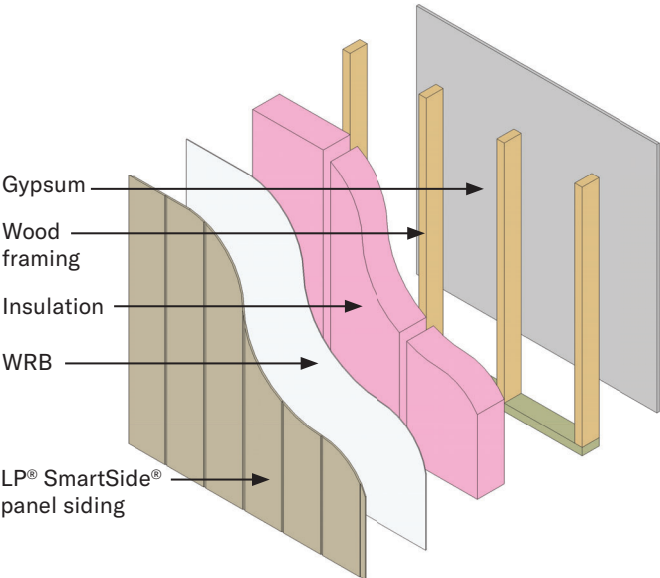
**INSIDE CORNER
ALTERNATE**



**OUTSIDE CORNER
ALTERNATE**

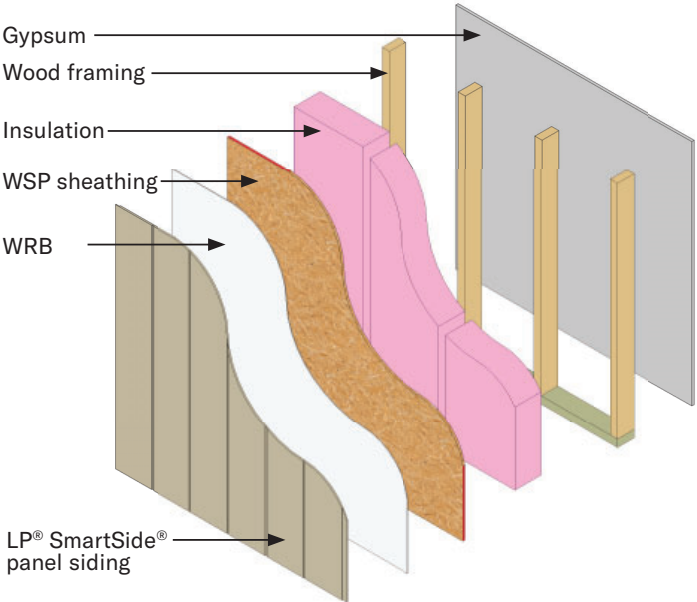
WOOD FRAMED WALL ASSEMBLIES - EXAMPLES

• WRB location in wall assembly may vary depending on climate zone or other factors.



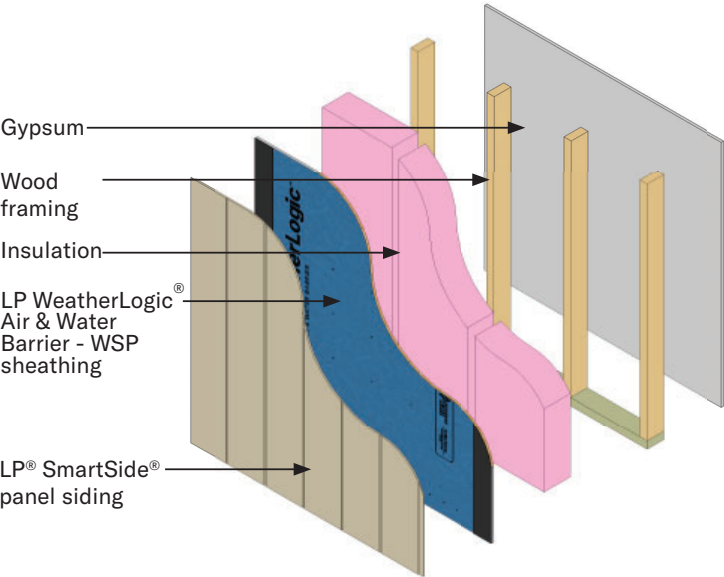
Siding without Sheathing

Figure 12a



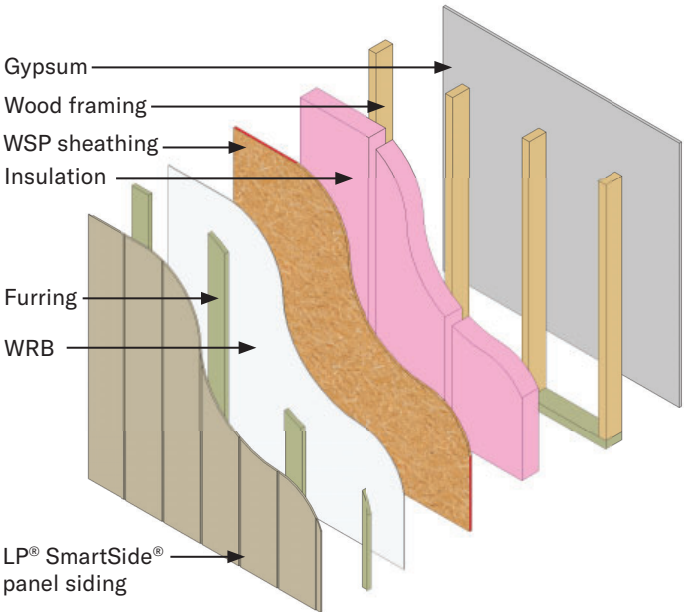
Siding with WSP Sheathing

Figure 12b



Siding with LP® WeatherLogic®

Figure 12c



Furring with WSP Sheathing (Canada Only)

Figure 12d

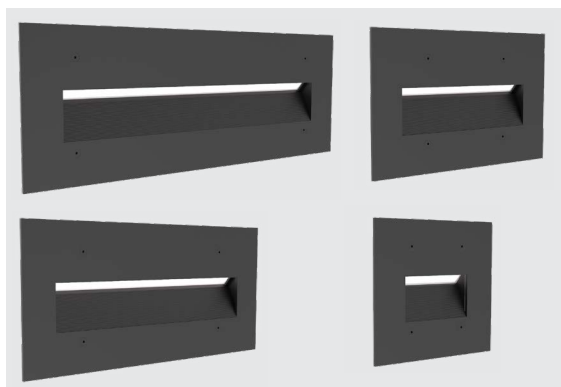
LP® SmartSide® Panel Siding

Application Tips

IMPORTANT Always refer to the complete application instructions for the product you are installing. The application tips provided below are not intended to replace such instructions. Application instructions can be found at LPCorp.com. Failure to follow the full application instructions could cause personal injury or property damage, affect system performance, void any applicable warranty and/or violate applicable building codes.

Exercise safe practices at all times while handling and using this product. Refer to the relevant Safety Data Sheet (SDS) for important information on the safe handling and use of this product. These can be found at LPCorp.com.

- ☐ Panel siding may be attached Direct to Studs or Direct to Wood Structural Panel (WSP) Sheathing:
 - **Direct to Stud** - nails must penetrate structural framing, or combination of WSP and structural framing min. 1-1/2" (38 mm), some installations may require 2" (51 mm) penetration, see [PR-N124](#) or [ESR-1301](#)
 - **Direct to WSP Sheathing** - nails must be long enough to penetrate beyond WSP by 1/4" (6 mm)
- ☐ Stud spacing – see application instructions for spacing from 16" (406 mm) o.c. to 24" (610 mm) o.c.
- ☐ Panel siding attached to ICF is NOT RECOMMENDED – LP will not warrant against buckling
- ☐ Nail size in **braced wall assemblies** (panel siding for structural use):
 - 38 & 76 Series – use a min. 0.113" shank dia. hot-dip galvanized (ASTM A153) nail
 - 190 Series – use a min. 0.131" shank dia. hot-dip galvanized (ASTM A153) nail
- ☐ Nail size in **non-braced wall assemblies** (panel siding for non-structural use):
 - Min. 0.092" shank diameter hot-dip galvanized (ASTM A153) nail may be substituted depending on wind pressure, wind speed and wind exposure limitations in PR-N124 or ESR-1301
- ☐ Nail size for **sheathing only** attachment (panel siding attached to WSP wall sheathing):
 - Min. 0.092" shank diameter hot-dip galvanized (ASTM A153) **ring shank** nail
- ☐ Nail placement – 3/8" (10 mm) from ends
- ☐ Nail spacing in braced and non-braced wall assemblies:
 - Edge nailing – 6" (152 mm) o.c.; or less if panel siding used in shear wall design, see PR-N124 or ESR-1301
 - Field nailing – 12" (200 mm) o.c.; or less in some shear wall or wind load designs, see PR-N124 or ESR-1301
- ☐ Nail spacing for **sheathing only** attachment (panel siding attached to WSP sheathing):
 - Nailing pattern varies from a **grid pattern** at 8" (200 mm) o.c. to 16" (406 mm) o.c. depending on wind pressure, wind speed and wind exposure limitations in PR-N124 or ESR-1301
- ☐ Horizontal joints – must be flashed with non-corrosive Z-flashing, spaced min. 3/8" (10 mm) above flashing
- ☐ For **single** and **double nailing** guidelines - See Application Instructions
- ☐ Do not overdrive nails – nail head should seat snug to the face of siding
- ☐ Caulk – use a high-quality, non-hardening, paintable exterior sealant meeting ASTM C920, min. Class 25
- ☐ Seal all exposed substrate – sealing can be accomplished by applying a paint or caulk
- ☐ Where panels butt up against a window, door, and corner trim space – min. 3/16" (5 mm)
- ☐ Siding clearance at finish grade (ground cover) – min. 6" (152 mm) [*Min. 200 mm (8 inch) when installing in Canada*]
- ☐ Siding clearance adjacent to surfaces such as porches, patios, or porch columns, etc. – min. 1" (25 mm) clearance:
 - May be reduced to 3/8" (10 mm) subject to certain conditions - see Application Instructions
- ☐ Siding must not be in direct contact with CMU, poured concrete, brick, cultured stone, stucco, mortar, etc.
- ☐ Flashing is required above all windows, doors and horizontal trim per manufacturer's instructions:
 - Flashing shall be metal or another durable material that will last for not less than 50 years
 - Provide 3/8" (10 mm) gap above any drip cap flashing, **do not caulk gap**
- ☐ Siding below a windowsill, soffit, horizontal trim or frieze board will require face-nailing - see Application Instructions
- ☐ Siding over foam plastic sheathing adds complexity to siding installation – see Application Instructions
- ☐ For Limitations of Use – see Application Instructions, Technical Notes, Technical Bulletins and NSA Bulletins



HSL13

Static White and Static Color Step Light 13

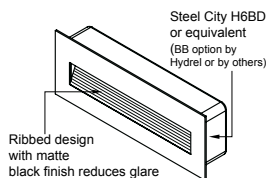
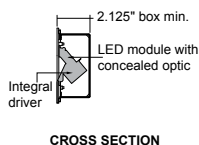
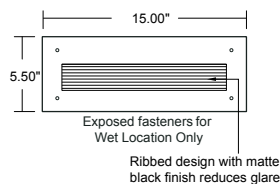
HIGHLIGHTS

- Integral Driver
- Long throw distribution
- Standard 0-10V dimming option
- Die-cast housing with solid aluminum, brass, or stainless steel faceplate
- Wet location listed
- Back Box provided by Hydrel or by others
- Suitable for concrete pour if BB option is chosen or Steel City back box is used

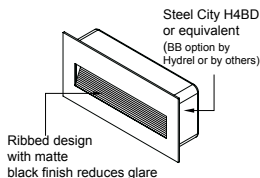
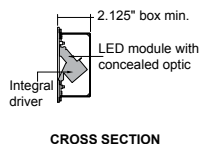
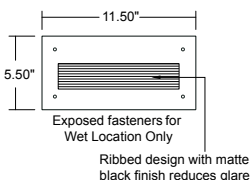
5
YEAR
warranty


DIMENSIONS

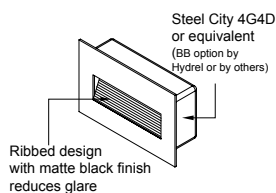
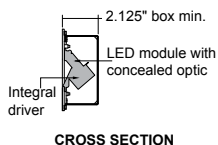
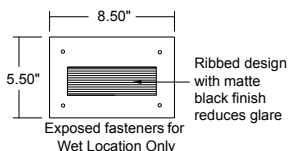
12INCH



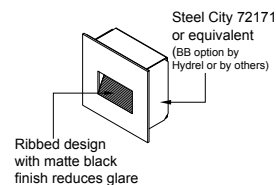
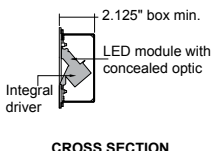
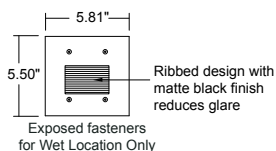
9INCH



6INCH



3INCH



LUMEN PACKAGES

Distribution	Delivered Lumens	Input Watts	Lumens/Watt
3INCH	87	3	29
6INCH	194	5	36
9INCH	299	8	37
12INCH	386	11	37

Performance data based upon 30K LED 80CRI

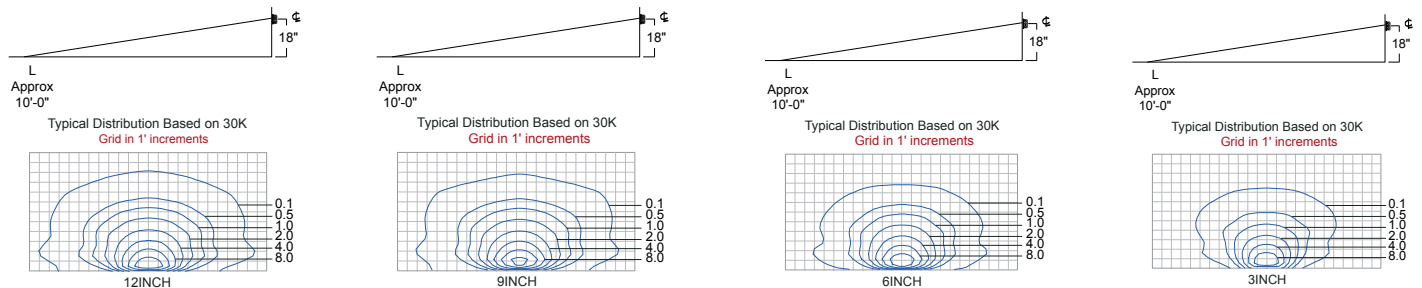
ORDERING INFORMATION

EXAMPLE: HSL13 3INCH LED 27K MVOLT L MIN5 BRB

Series*	Length*	Source*	Color Temperature*	Voltage*	Distribution*
HSL13 Step Light 13	3INCH 3" Nominal Length 6INCH 6" Nominal Length 9INCH 9" Nominal Length 12INCH 12" Nominal Length	LED	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	AMBLW Amber Limited Wavelength 590nm BLU Blue GRN Green RED Red CYN Cyan RDO Red-Orange	MVOLT Multi-Volt 120V thru 277V L Long Throw
Dimming Optional	OPTION	Finish*			
MIN5 Dimming Driver	BB Back Box <i>Note:</i> Include BB if you need a back box, otherwise back box is by others. <i>Note: Suitable for concrete pour if BB option is chosen or Steel City back box is used</i>	BRB Brushed Brass BBP Brushed Brass Paint BRSS Brushed Stainless Steel LBPS Light Bronze Paint Smooth PBR Polished Brass PSS Polished Stainless Steel SGB Semi Gloss Black SGW Semi Gloss White CF Custom Finish RALTB Ral Paint Finishes <i>Note:</i> RALTB for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.			

Note: * is a required field

PERFORMANCE DATA



Expected Life: Static White LED: L70 @ 60,000 hours
Static Color LED: L70 @ 60,000 hours

Lumen Multiplier Table for CCT

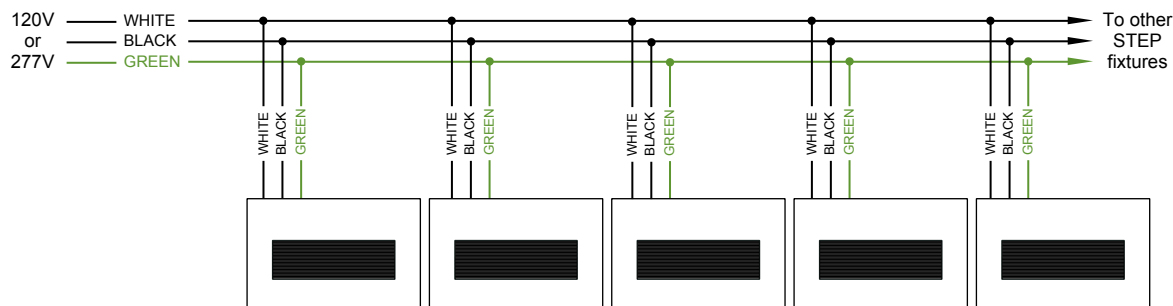
CCT	Multiplier
27K	0.963
30K	1.000
35K	1.218
40K	1.153
50K	1.208
AMBLW	0.338
RED	0.409
GREEN	0.702
BLUE	0.364

Read all instructions before installation. Do not make live connections!

Connect STEP WHITE wire to power NEUTRAL.

Connect STEP BLACK wire to power HOT.

Connect STEP GREEN wire to power GROUND.



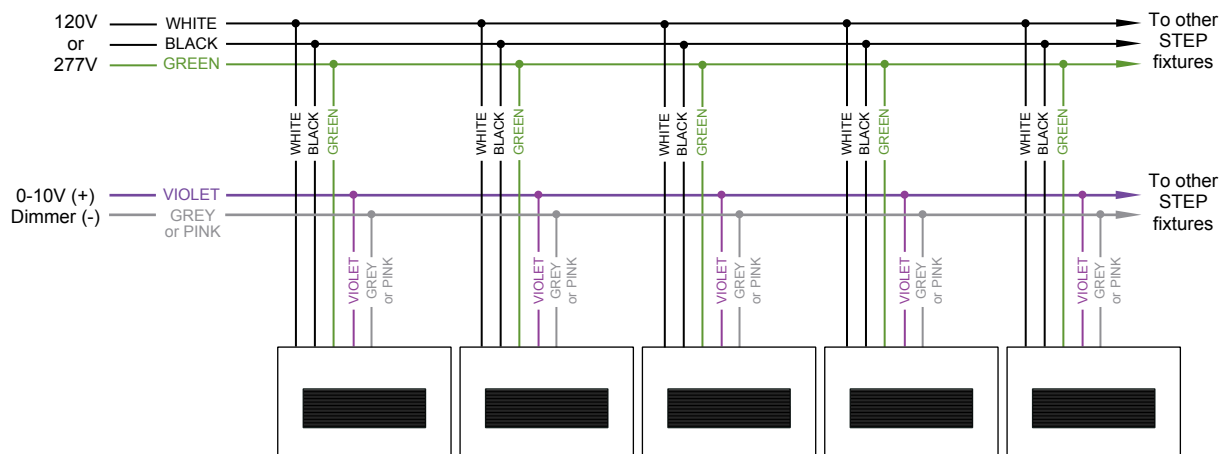
The integral dimming driver is designed to the 0-10V IEC dimming specification 60929 and is compatible with common 0-10V dimmers and dimming systems. Do NOT connect line voltage to dimming input wires.

Connect STEP WHITE wire to power NEUTRAL.

Connect STEP BLACK wire to power HOT.

Connect STEP VIOLET wire to POSITIVE INPUT of Dimming Control.

Connect STEP GREY or PINK wire to NEGATIVE INPUT of Dimming Control.



SPECIFICATIONS & FEATURES

Construction

Die-cast housing with solid aluminum, brass, or stainless steel faceplate.

Source

Light source consists of eight powerful LEDs available in five static white color temperatures/80CRI & six colored LED choices. All within a 3MacAdam ellipse

Optics

A concealed optic provides a long light distribution for illumination of large areas.

Electrical

Integral electronic driver for 120 through 277v/50-60Hz input. Standard 0-10V dimming to 5%. THD: <20%. PFC: > 0.90. Complies to FCC CFR Title 47 Part 15, Class B at 120v and Class A at 277v EMI noise rating.

Mounting

HSL13 3LONG: Designed to mount to a Steel City 72171 square junction box (BB option from Hydrel or by others) or equivalent.
HSL13 6LONG: Designed to mount to a Steel City 4G4D multi-gang junction box (BB option from Hydrel or by others) or equivalent.
HSL13 9LONG: Designed to mount to a Steel City H4BD multi-gang junction box (BB option from Hydrel or by others) or equivalent.
HSL13 12LONG: Designed to mount to a Steel City H6BD multi-gang junction box (BB option from Hydrel or by others) or equivalent.

Lens

Extruded clear acrylic optic lens concealed in reflector housing

Circuiting

Single circuit

Environment

Wet location.

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Listing

ETL / cETL

Finish

Recessed surfaces have a ribbed design with matte black finish to reduce glare. Faceplates are available in four metal finishes with protective clear coat or one of four polyester powder coat painted finishes.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: 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.



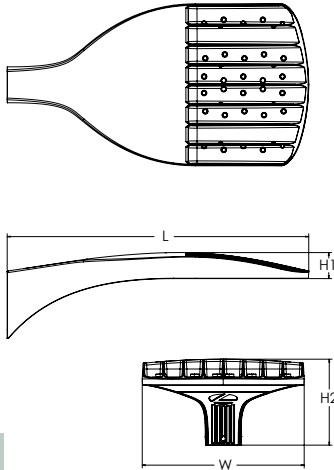
D-Series Size 0 LED Area Luminaire



d^{series}

Specifications

EPA:	0.44 ft ² (0.04 m ²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)



Design Select options indicated by this color background.

Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED						
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution		Mounting
DSX0 LED	Forward optics	(this section 70CRI only)		AFR Automotive front row	T5M Type V medium	Shipped included SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole) RPA Round pole mounting (#8 drilling, 3" min. RND pole) SPA5 Square pole mounting (#5 drilling, 3" min. SQ pole) ⁹ RPA5 Round pole mounting (#5 drilling, 3" min. RND pole) ⁹ SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole) WBA Wall bracket ¹⁰ MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
	P1 P5	30K 3000K	70CRI	T1S Type I short	T5LG Type V low glare	
	P2 P6	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide	
	P3 P7	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control ³	
	P4	(this section 80CRI only, extended lead times apply)		T3LG Type III low glare ³	BLC4 Type IV backlight control ³	
	Rotated optics			T4M Type IV medium	LCCO Left corner cutoff ³	
	P10 ¹ P12 ¹	27K 2700K	80CRI	T4LG Type IV low glare ³	RCCO Right corner cutoff ³	
	P11 ¹ P13 ¹	30K 3000K	80CRI	TFTM Forward throw medium		
		35K 3500K	80CRI			
		40K 4000K	80CRI			
		50K 5000K	80CRI			
Control options		Other options		Finish (required)		
Shipped installed		Shipped installed		Shipped installed		
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{11, 12, 18, 19}		PER7 Seven-pin receptacle only (controls ordered separate) ^{14, 19}		DDBXD Dark Bronze		
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{13, 18, 19}		FAO Field adjustable output ^{15, 19}		DBLXD Black		
PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁴		BL30 Bi-level switched dimming, 30% ^{16, 19}		DNAXD Natural Aluminum		
PERS Five-pin receptacle only (controls ordered separate) ^{14, 19}		BL50 Bi-level switched dimming, 50% ^{16, 19}		DWHXD White		
		DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷		DDBTXD Textured dark bronze		
				DBLBXD Textured black		
				DNATXD Textured natural aluminum		
				DWHGXD Textured white		
				Shipped separately		
				EGSR External Glare Shield (reversible, field install required, matches housing finish)		
				BSDB Bird Spikes (field install required)		



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DSX0-LED
Rev. 03/26/24
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Ordering Information

Accessories

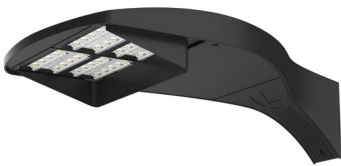
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²³
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²³
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²³
DSHORT SBK	Shorting cap ²³
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0SDB (FINISH)	Bird spike deterrent bracket (specify finish)

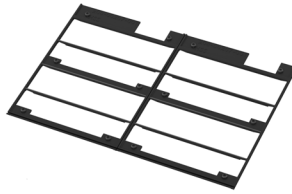
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- MVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1, P2 or P10. XVOLT not available with fusing (SF or DF).
- SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type 5 distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1, P2 and P10 using XVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
- PIR not available with NLTAIR2, PER, PER5, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P1 using MVOLT.
- PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P6, P7, P12 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



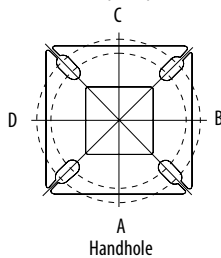
External Glare Shield (EGSR)



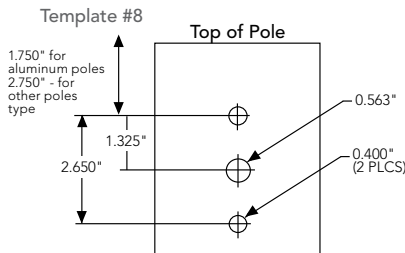
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION (from top of pole)



Handhole



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
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

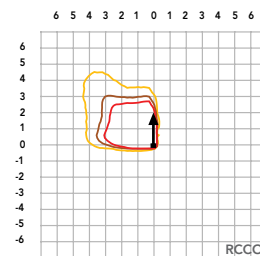
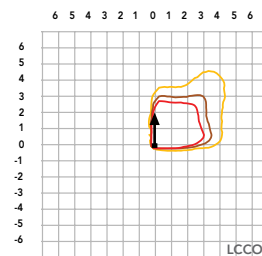
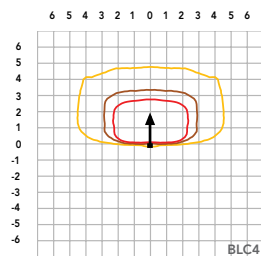
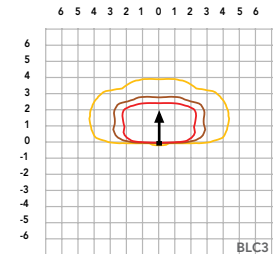
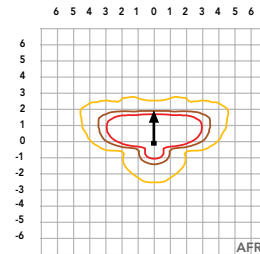
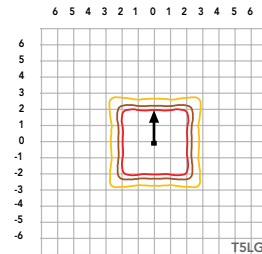
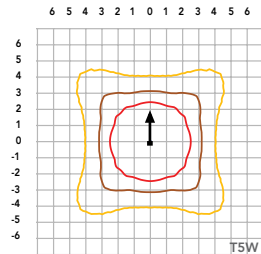
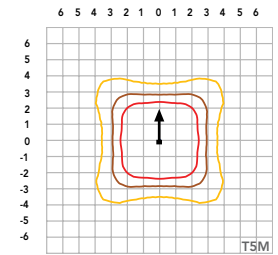
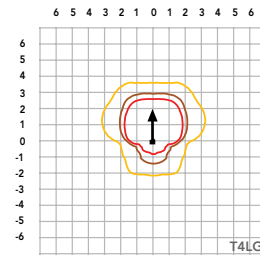
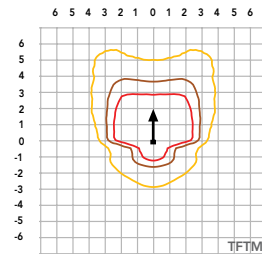
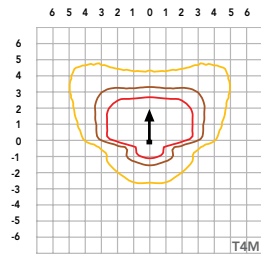
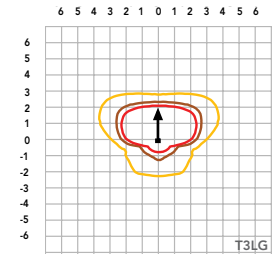
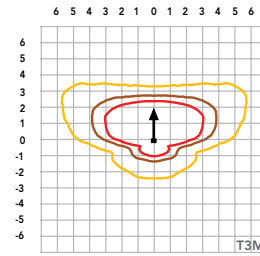
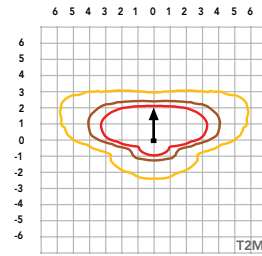
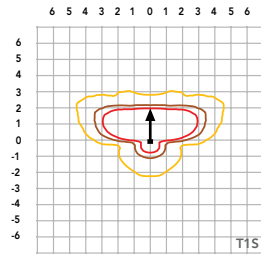
DSX0 Area Luminaire - EPA

*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						
DSX0 with SPA	0.44	0.88	0.96	1.18	---	1.16
DSX0 with SPA5, SPA8N	0.51	1.02	1.06	1.26	---	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').

LEGEND



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	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

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 (not available on DSX0)	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. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
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 override when wirelessly connected to the nLight Eclipse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,301	1	0	3	140
				T3LG	5,297	1	0	1	117	5,521	1	0	1	122	5,628	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,474	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				TFTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
				T5M	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5W	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5LG	6,210	2	0	1	138	6,472	3	0	1	143	6,598	3	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
P3	69W	20	1050	T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
				T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
				T3M	10,680	2	0	3	115	11,130	2	0	3	120	11,347	2	0	3	122
				T3LG	9,540	1	0	2	103	9,942	1	0	2	107	10,136	1	0	2	109
				T4M	10,839	2	0	3	117	11,296	2	0	3	121	11,516	2	0	4	124
				T4LG	9,858	1	0	2	106	10,274	1	0	2	110	10,474	1	0	2	113
				TFTM	10,914	2	0	3	117	11,374	2	0	3	122	11,596	2	0	3	125
				T5M	11,152	4	0	2	120	11,622	4	0	2	125	11,849	4	0	2	127
				T5W	11,332	4	0	3	122	11,811	4	0	3	127	12,041	4	0	3	129
				T5LG	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	92
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				T5W	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
				T2M	16,253	3	0	4	119	16,939	3	0	4	124	17,269	3	0	4	126
				T3M	16,442	2	0	4	120	17,135	3	0	4	125	17,469	3	0	4	128
				T3LG	14,687	2	0	2	107	15,306	2	0	2	112	15,605	2	0	2	114
				T4M	16,687	2	0	4	122	17,391	3	0	5	127	17,730	3	0	5	129
				T4LG	15,177	2	0	2	111	15,817	2	0	2	115	16,125	2	0	2	118
				TFTM	16,802	2	0	4	123	17,511	2	0	4	128	17,852	2	0	5	130
				T5M	17,168	4	0	2	125	17,893	5	0	3	131	18,241	5	0	3	133
				T5W	17,447	5	0	3	127	18,183	5	0	3	133	18,537	5	0	3	135
				T5LG	17,218	4	0	2	126	17,944	4	0	2	131	18,294	4	0	2	134
				BLC3	11,959	0	0	3	87	12,464	0	0	3	91	12,707	0	0	3	93
				BLC4	12,352	0	0	4	90	12,873	0	0	4	94	13,124	0	0	4	96
				RCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				LCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				AFR	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300	T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				T5W	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129

Performance Data

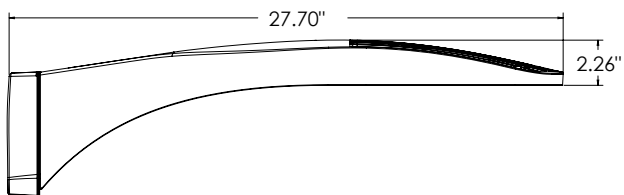
Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

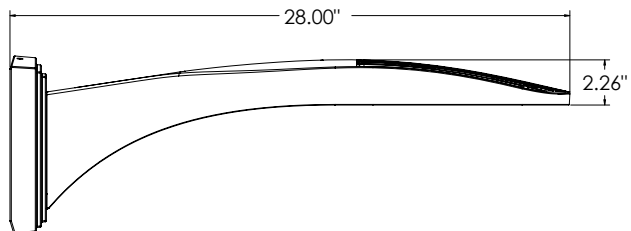
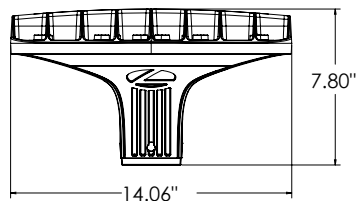
Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134
				TFTM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151
				T5W	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154
				T5LG	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109
				RCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				LCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
				T3M	8,768	3	0	3	129	9,138	3	0	3	134	9,316	3	0	3	137
				T3LG	7,833	3	0	3	115	8,164	3	0	3	120	8,323	3	0	3	122
				T4M	8,899	3	0	3	131	9,274	3	0	3	136	9,455	3	0	3	139
				T4LG	8,093	3	0	3	119	8,435	3	0	3	124	8,599	3	0	3	126
				TFTM	8,962	3	0	3	132	9,340	3	0	3	137	9,522	3	0	3	140
				T5M	9,156	4	0	2	135	9,542	4	0	2	140	9,728	4	0	2	143
				T5W	9,304	4	0	2	137	9,696	4	0	2	143	9,885	4	0	2	145
				T5LG	9,182	3	0	1	135	9,569	3	0	1	141	9,756	3	0	1	143
				BLC3	6,378	3	0	3	94	6,647	3	0	3	98	6,777	3	0	3	100
				BLC4	6,587	3	0	3	97	6,865	3	0	3	101	6,999	3	0	3	103
				RCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				LCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				AFR	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
P12	103W	30	1050	T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128
				T3LG	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129
				T4LG	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118
				TFTM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133
				T5W	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135
				T5LG	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				LCCO	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
				T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
				T3M	14,714	4	0	4	114	15,335	4	0	4	119	15,634	4	0	4	121
				T3LG	13,145	3	0	3	102	13,700	3	0	3	106	13,967	3	0	3	108
				T4M	14,933	4	0	4	116	15,563	4	0	4	121	15,867	4	0	4	123
				T4LG	13,582	3	0	3	105	14,155	3	0	3	110	14,431	3	0	3	112
				TFTM	15,039	4	0	4	117	15,673	4	0	4	122	15,979	4	0	4	124
				T5M	15,364	4	0	2	119	16,013	4	0	2	124	16,325	4	0	2	127
				T5W	15,613	5	0	3	121	16,272	5	0	3	126	16,589	5	0	3	129
				T5LG	15,409	3	0	2	120	16,059	3	0	2	125	16,372	4	0	2	127
				BLC3	10,703	4	0	4	83	11,155	4	0	4	87	11,372	4	0	4	88
				BLC4	11,054	4	0	4	86	11,520	4	0	4	89	11,745	4	0	4	91
				RCCO	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				LCCO	10,800	1	0	2	84	11,255	1	0	2	87	11,475	1	0	3	89
				AFR	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130

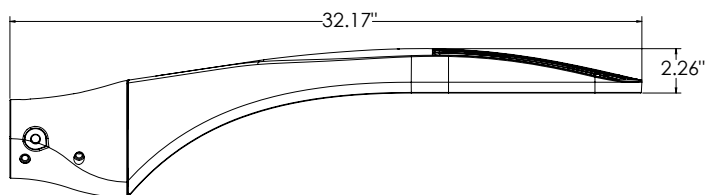
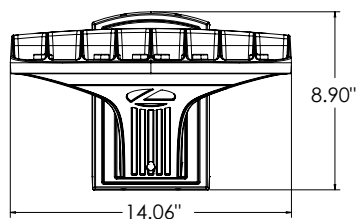
Dimensions



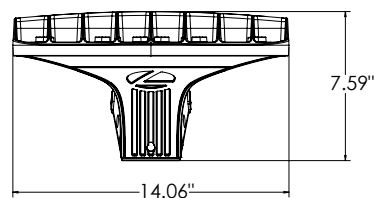
DSX0 with RPA, RPA5, SPA5, SPA8N mount
Weight: 25 lbs



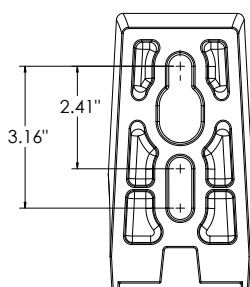
DSX0 with WBA mount
Weight: 27 lb



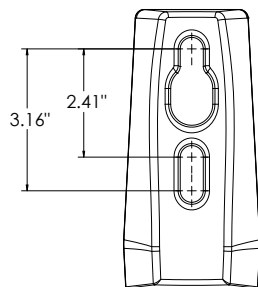
DSX0 with MA mount
Weight: 28 lbs



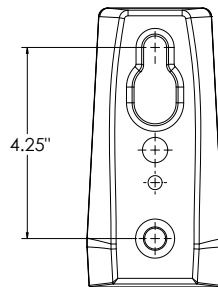
SPA (STANDARD ARM)



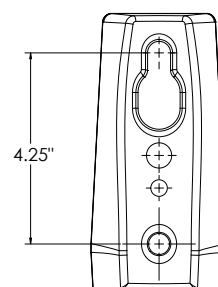
RPA



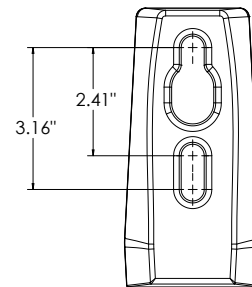
SPA5



RPA5

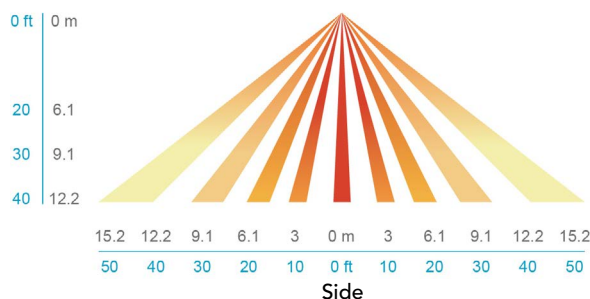
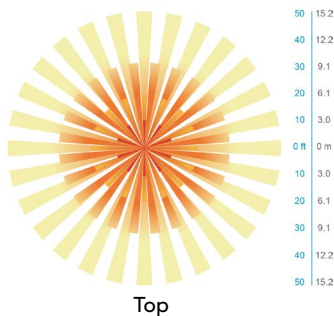


SPA8N



nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

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 driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G. Low EPA (0.44 ft²) 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.

COASTAL CONSTRUCTION (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 0 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(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 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 DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX0 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

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

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 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.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: 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.

TruExterior®

Siding & Trim





So Authentic. So Reliable. Nothing Compares.

TruExterior® Siding & Trim is in a class of its own, invented to address issues common with other exterior products on the market. It's a siding material that offers a high level of dimensional stability to help reduce expansion and contraction. Plus, TruExterior resists water, making it ideal for applications with ground or masonry contact. TruExterior gives builders the freedom to build beautiful homes with confidence.

Pictured: Shiplap, Channel Bevel
On the Cover: Nickel Gap, Channel







Phenomenal Performance. Remarkable Workability.

TruExterior® Siding & Trim offers both and a lasting look while eliminating the need for gluing, gapping and other cumbersome and costly installation techniques.

APPLICATION

- Designed for use in non-structural applications
- Suitable for ground contact
- Can be used in moisture-prone areas
- Installation is the same regardless of the season

TOOLS

- Installed using proven woodworking tools and methods
- Carbide-tipped blades and bits are recommended for a longer tool life

FASTENING

- Accepts a wide variety of high-quality exterior-grade fasteners that are suitable for the local environment
- Can be fastened close to the edge
- No need for pre-drilling
- No mushrooming

PAINTING

- TruExterior® products come pre-primed and do require paint
- No need to prime end cuts
- Can be painted with any high-grade exterior paint when following the paint manufacturer's instructions
- Can be painted any color without special precautions as it is not prone to movement caused by heat gain from dark colors*
- Paint lasts longer than on wood because TruExterior® products cycle virtually no moisture*
- Traditional exterior-grade caulks, auto-body or wood fillers are all acceptable for filling nail holes

*Please see TruExterior® Siding & Trim Limited Warranties and Product Data Sheets for proprietary test results, located at TruExterior.com. Always follow local building codes and construction best practices. See the complete Installation Guidelines for TruExterior® Siding & Trim at TruExterior.com.



Pictured: 4/4 Trim with Batten Strips

Siding that's in a class of its own.

DURABILITY

- Virtually no moisture cycling, excellent paint durability
- WUI listed
- No need to prime ends or field cuts
- Resists rot and termite attacks*
- No swelling*
- No cracking or splitting
- No cupping or checking*
- Suitable for ground contact

BEAUTY

- Tighter gaps, minimal movement—it will move less than fiber cement, wood, PVC and vinyl
- Truly historically accurate profiles—get the look of traditional, authentic wood profiles
- True look of cedar siding profiles, real architectural detail

WARRANTY

- 20 year limited warranty



Pictured: Cove/Dutch Lap

*Please see TruExterior® Siding & Trim Limited Warranties and Product Data Sheets for proprietary test results, located at TruExterior.com. Always follow local building codes and construction best practices. See the complete Installation Guidelines for TruExterior® Siding & Trim at TruExterior.com.



Pictured: Cove/Dutch Lap

Craftsman Collection™

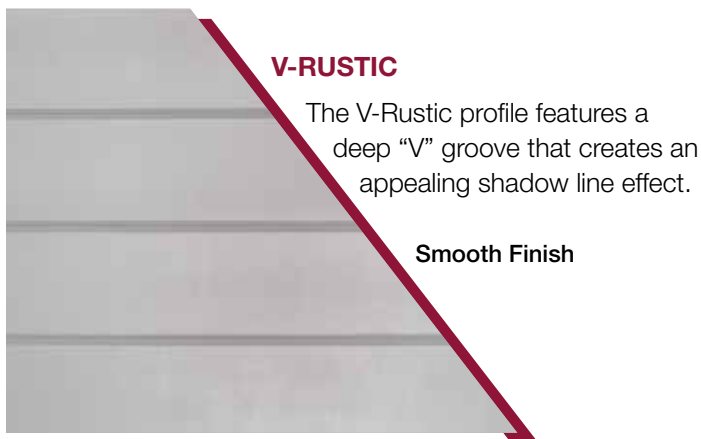
The TruExterior® Siding Craftsman Collection™ offers a variety of authentic, full-thickness profiles with bold, defined shapes and the natural aesthetic of traditional wood siding, all without the maintenance and upkeep associated with exterior wood products.

Six historically and architecturally accurate profiles—Channel, Channel Bevel, Cove/Dutch Lap, Nickel Gap, Shiplap and V-Rustic—are the ideal solution for homeowners who desire the look, feel and character of authentic wood siding while avoiding rotting, cracking, splitting and termite attacks.

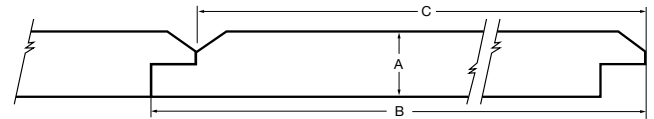


Pictured Top Left to Right: Channel Bevel, Nickel Gap

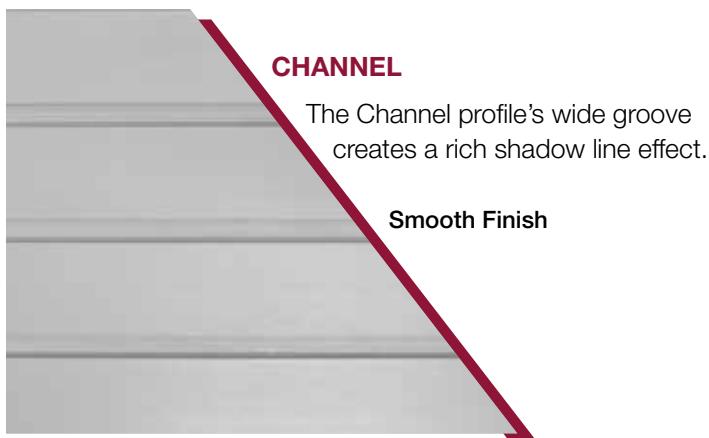
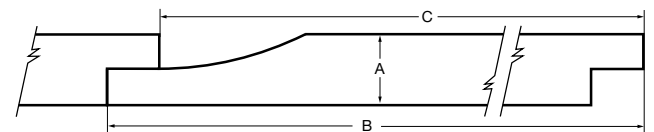
Pictured Bottom Left to Right: Nickel Gap, Channel Bevel



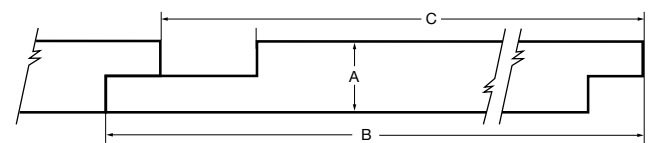
Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	5"
1 x 8	11/16"	7-1/2"	7"
1 x 10	11/16"	9-1/2"	9"



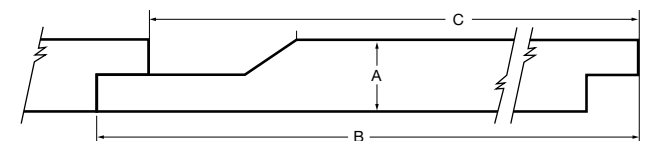
Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	4-31/32"
1 x 8	11/16"	7-1/4"	6-23/32"
1 x 10	11/16"	9-1/4"	8-15/32"



Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	4-31/32"
1 x 8	11/16"	7-1/4"	6-23/32"
1 x 10	11/16"	9-1/4"	8-23/32"



Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	4-31/32"
1 x 8	11/16"	7-1/2"	6-31/32"
1 x 10	11/16"	9-1/2"	8-31/32"



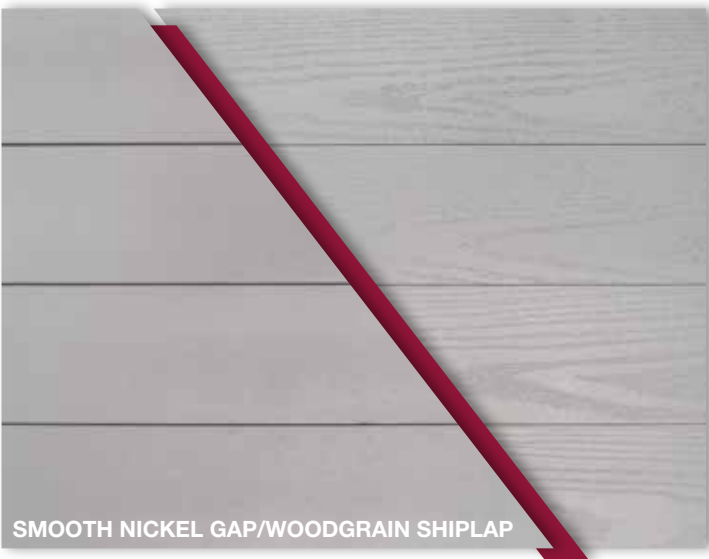
TruExterior Siding comes pre-primed and does require paint.

NEW! REVERSIBLE SHIPLAP-NICKEL GAP

TruExterior Siding & Trim’s Reversible Shiplap/Nickel Gap siding panels offer two authentic, on-trend looks in one for increased versatility and convenience. The profile comes in two formats: one features smooth Nickel Gap on one side and wood-grain Shiplap on the other; the second combines wood-grain Nickel Gap with smooth Shiplap on the flip side. A rabbeted edge ensures panels install with authentic spacing depending on which side is installed—the tight joint appearance of Shiplap or the nickel-sized space of Nickel Gap. Four widths are available for 16 total profile combinations.

Finish Options:

- Smooth Nickel Gap with Woodgrain Shiplap
- Woodgrain Nickel Gap with Smooth Shiplap

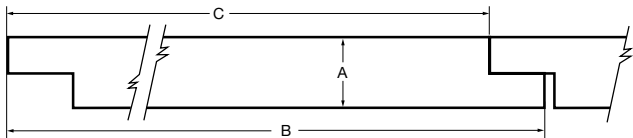
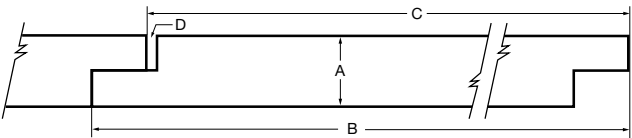


NICKEL GAP

Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)	Gap (D)
1 x 4	11/16"	3-1/2"	3-3/32"	5/64"
1 x 6	11/16"	5-1/2"	5-3/32"	5/64"
1 x 8	11/16"	7-1/4"	6-13/16"	5/64"
1 x 10	11/16"	9-1/4"	8-13/16"	5/64"

SHIPLAP

Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 4	11/16"	3-1/2"	3-3/32"
1 x 6	11/16"	5-1/2"	5-3/32"
1 x 8	11/16"	7-1/4"	6-13/16"
1 x 10	11/16"	9-1/4"	8-13/16"



TruExterior Siding comes pre-primed and does require paint.



Beadboard

Including single and double profiles, TruExterior® Beadboard is ideal for porch ceilings, soffits and decorative wall applications, and allows for a variety of installations, as it can be attached in either parallel or perpendicular directions.

Its “tongue-and-groove” design allows it to be fastened through the tongue, resulting in a clean look free from visible fasteners, or it can be reversed to offer a contemporary “V-groove” appearance.

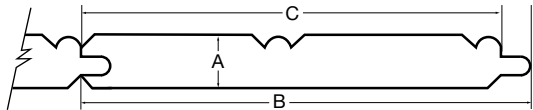


SINGLE BEADBOARD

Two distinct beaded patterns—4" and 6"—to suit the most popular design trends.

Smooth Finish

Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
5/8 x 4	5/8"	3-15/32"	3-5/32"
5/8 x 6	5/8"	5-5/16"	4-15/16"

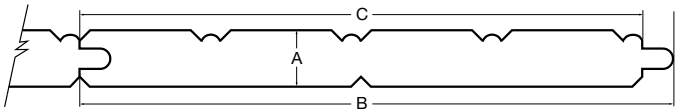


DOUBLE BEADBOARD

The same appearance as the single-profile products, but with twice the coverage.

Smooth Finish

Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
5/8 x 8	5/8"	6-9/16"	6-7/32"
5/8 x 12	5/8"	10-1/4"	9-29/32"



*Please see TruExterior® Siding & Trim Limited Warranties and Product Data Sheets for proprietary test results, located at TruExterior.com.



Trim

Designed to be used in non-load-bearing applications, TruExterior® Trim is suitable for ground contact and moisture-prone areas, which makes it ideal for exterior trim applications such as fascia, door trim, soffits, rake boards and a variety of other applications. There is no need to prime ends or field cuts. Plus, it can be painted any color. TruExterior® Trim accepts a wide variety of fasteners and can be installed using standard woodworking tools and methods.



1X Trim Sizes		5/4 Trim Sizes		2X Trim Sizes	
Nominal	Actual	Nominal	Actual	Nominal	Actual
—	—	—	—	2 x 2	1-1/2" x 1-1/2"
1 x 3	3/4" x 2-1/2"	5/4 x 3	1" x 2-1/2"	—	—
1 x 4	3/4" x 3-1/2"	5/4 x 4	1" x 3-1/2"	2 x 4	1-1/2" x 3-1/2"
1 x 5	3/4" x 4-1/2"	5/4 x 5	1" x 4-1/2"	—	—
1 x 6	3/4" x 5-1/2"	5/4 x 6	1" x 5-1/2"	2 x 6	1-1/2" x 5-1/2"
1 x 8	3/4" x 7-1/4"	5/4 x 8	1" x 7-1/4"	2 x 8	1-1/2" x 7-1/4"
1 x 10	3/4" x 9-1/4"	5/4 x 10	1" x 9-1/4"	2 x 10	1-1/2" x 9-1/4"
1 x 12	3/4" x 11-1/4"	5/4 x 12	1" x 11-1/4"	2 x 12	1-1/2" x 11-1/4"

TruExterior® Trim is reversible with woodgrain on one side and a smooth finish on the reverse. Available in 16' and 12' lengths.

Reversible Smooth/Woodgrain Finish

*Please see TruExterior® Siding & Trim Limited Warranties and Product Data Sheets for proprietary test results, located at TruExterior.com.

Accessories

TruExterior® Siding & Trim Accessories make it easy to create polished, professional-looking siding and trim installations. Decorative yet functional, the poly-ash accessories are designed to go where other materials can't, making them the perfect complement to cedar, fiber cement and other traditional siding products, as they are suitable for ground, roofline and masonry contact.



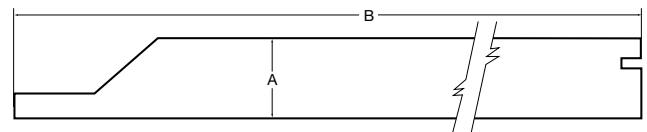
SKIRT BOARD

Provides a decorative yet functional way to create the required clearance between siding and grade.

Available Finishes:

- Smooth
- Woodgrain

Nominal Size	Actual Thickness (A)	Actual Width (B)
1 x 6	3/4"	5-1/2"
1 x 8	3/4"	7-1/4"
5/4 x 6	1"	5-1/2"
5/4 x 8	1"	7-1/4"



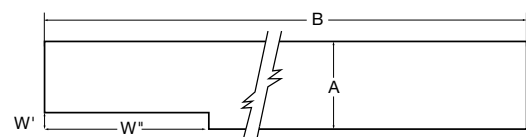
WINDOW POCKET RABBETED TRIM

The rabbeted groove helps trim to sit flush over the window's nailing flange, eliminating the need for cuts or shims.

Available Finishes:

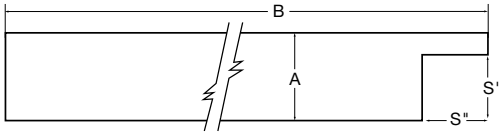
- Smooth
- Woodgrain

Nominal Size	Actual Thickness (A)	Actual Width (B)	Window Pocket (W' x W'')
5/4 x 4	1"	3-1/2"	3/16" x 1-7/8"
5/4 x 6	1"	5-1/2"	3/16" x 1-7/8"
5/4 x 8	1"	7-1/4"	3/16" x 1-7/8"





Nominal Size	Actual Thickness (A)	Actual Width (B)	Siding Pocket (S' x S'')
5/4 x 3	1"	2-1/2"	3/4" x 3/4"
5/4 x 4	1"	3-1/2"	3/4" x 3/4"
5/4 x 5	1"	4-1/2"	3/4" x 3/4"
5/4 x 6	1"	5-1/2"	3/4" x 3/4"
5/4 x 8	1"	7-1/4"	3/4" x 3/4"



SIDING POCKET RABBETED TRIM

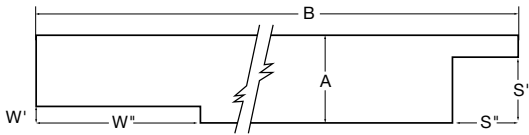
Perfect for end wall terminations, this trim with a 3/4" siding pocket accepts all TruExterior® Siding profiles.

Available Finishes:

- Smooth
- Woodgrain



Nominal Size	Actual Thickness (A)	Actual Width (B)	Window Pocket (W' x W'')	Siding Pocket (S' x S'')
5/4 x 4	1"	3-1/2"	3/16" x 1-7/8"	3/4" x 3/4"
5/4 x 6	1"	5-1/2"	3/16" x 1-7/8"	3/4" x 3/4"
5/4 x 8	1"	7-1/4"	3/16" x 1-7/8"	3/4" x 3/4"

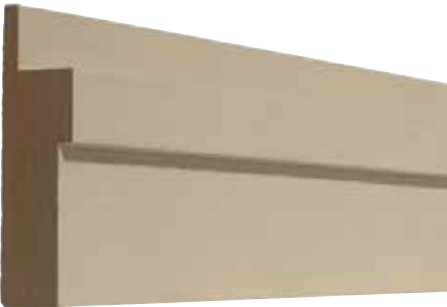


WINDOW AND SIDING POCKET RABBETED TRIM

The ultimate accessory to build a neat, professional-looking window surround.

Available Finishes:

- Smooth
- Woodgrain



TruExterior® Siding & Trim Reference Guide

SUSTAINABILITY

The sustainable properties of TruExterior® Siding & Trim are a result of a combination of proprietary polymer chemistry and highly refined, recovered coal combustion products (fly ash), which are endorsed by the U.S. Green Building Council (USGBC) for use in construction materials.

- Contains a minimum of 70% recycled content—verified by SCS Global Services

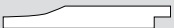


CODE LISTINGS

TruExterior® Siding & Trim have undergone rigorous internal and third-party testing to provide building officials, architects, contractors, specifiers, designers and others with reliable, high-performing products.

- PEI Evaluation Service Report ESR-14090—Trim and Beadboard
- PEI Evaluation Service Report ESR-13069—Siding
- ICC-ES Evaluation Report ESR-3597 verifies that TruExterior® Siding meets code requirements
- California's Wildland-Urban Interface (WUI) listed
- Florida Product Approval FL17285
- Texas Department of Insurance (TDI) ED-92

PROJECT ESTIMATOR

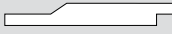
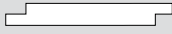
V-Rustic			Cove/Dutch Lap		
					
Nominal	Boards per square		Nominal	Boards per square	
	12' Length	16' Length		12' Length	16' Length
1 x 6	20	15	1 x 6	20	15
1 x 8	14	11	1 x 8	15	12
1 x 10	11	9	1 x 10	11	9

Channel			Channel Bevel		
					
Nominal	Boards per square		Nominal	Boards per square	
	12' Length	16' Length		12' Length	16' Length
1 x 6	20	15	1 x 6	20	15
1 x 8	15	12	1 x 8	14	11
1 x 10	11	9	1 x 10	11	9

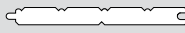
Reversible Shiplap-Nickel Gap		
		
Nominal	Boards per square	
	12' Length	16' Length
1 x 4	32	24
1 x 6	19	15
1 x 8	14	11
1 x 10	11	10

Craftsman Collection™ Siding

V-Rustic		Cove/Dutch Lap		Channel	
					
Nominal	Actual	Nominal	Actual	Nominal	Actual
1 x 6	11/16" x 5-1/2"	1 x 6	11/16" x 5-1/2"	1 x 6	11/16" x 5-1/2"
1 x 8	11/16" x 7-1/2"	1 x 8	11/16" x 7-1/4"	1 x 8	11/16" x 7-1/4"
1 x 10	11/16" x 9-1/2"	1 x 10	11/16" x 9-1/4"	1 x 10	11/16" x 9-1/4"

Channel Bevel		Reversible Shiplap-Nickel Gap	
			
Nominal	Actual	Nominal	Actual
1 x 6	11/16" x 5-1/2"	1 x 4	11/16" x 3-1/2"
1 x 8	11/16" x 7-1/2"	1 x 6	11/16" x 5-1/2"
1 x 10	11/16" x 9-1/2"	1 x 8	11/16" x 7-1/4"
		1 x 10	11/16" x 9-1/4"

Beadboard

Single		Double	
			
Nominal Size	Actual	Nominal	Actual
5/8 x 4	5/8" x 3-1/2"	5/8 x 8	5/8" x 6-11/16"
5/8 x 6	5/8" x 5-1/4"	5/8 x 12	5/8" x 10-1/4"

Trim

1X Trim Sizes		5/4 Trim Sizes		2X Trim Sizes	
Nominal	Actual	Nominal	Actual	Nominal	Actual
—	—	—	—	2 x 2	1-1/2" x 1-1/2"
1 x 3	3/4" x 2-1/2"	5/4 x 3	1" x 2-1/2"	—	—
1 x 4	3/4" x 3-1/2"	5/4 x 4	1" x 3-1/2"	2 x 4	1-1/2" x 3-1/2"
1 x 5	3/4" x 4-1/2"	5/4 x 5	1" x 4-1/2"	—	—
1 x 6	3/4" x 5-1/2"	5/4 x 6	1" x 5-1/2"	2 x 6	1-1/2" x 5-1/2"
1 x 8	3/4" x 7-1/4"	5/4 x 8	1" x 7-1/4"	2 x 8	1-1/2" x 7-1/4"
1 x 10	3/4" x 9-1/4"	5/4 x 10	1" x 9-1/4"	2 x 10	1-1/2" x 9-1/4"
1 x 12	3/4" x 11-1/4"	5/4 x 12	1" x 11-1/4"	2 x 12	1-1/2" x 11-1/4"

Accessories

Skirt Board		Window Pocket Rabbeted Trim		Siding Pocket Rabbeted Trim		Window and Siding Pocket Rabbeted Trim	
							
Nominal	Actual	Nominal	Actual	Nominal	Actual	Nominal	Actual
1 x 6	3/4" x 5-1/2"	5/4 x 4	1" x 3-1/2"	5/4 x 3	1" x 2-1/2"	5/4 x 4	1" x 3-1/2"
1 x 8	3/4" x 7-1/4"	5/4 x 6	1" x 5-1/2"	5/4 x 4	1" x 3-1/2"	5/4 x 6	1" x 5-1/2"
5/4 x 4	1" x 3-1/2"	5/4 x 8	1" x 7-1/4"	5/4 x 5	1" x 4-1/2"	5/4 x 8	1" x 7-1/4"
5/4 x 6	1" x 5-1/2"			5/4 x 6	1" x 5-1/2"		
5/4 x 8	1" x 7-1/4"			5/4 x 8	1" x 7-1/4"		

Note: All TruExterior® Siding, Trim and Beadboard products are available in standard 16' and 12' lengths. TruExterior® Accessories are available in 16' length.



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Kleer® | Mid-America Siding Components® | SturdiMount® | Tapco Tools® | TruExterior® Siding & Trim
Vantage® Shutters | Versetta Stone® | Wellcraft Egress Systems®



WDGE2 LED

Architectural Wall Sconce

Precision Refractive Optic



Catalog
Number

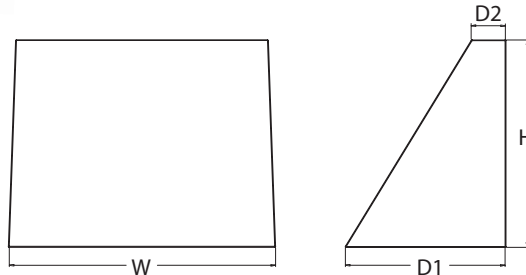
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1):	7"
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight: (without options)	13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI T3M MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	
WDGE2 LED	P0 ¹	27K 2700K	70CRI ⁴	T1S Type I Short	MVOLT	Shipped included	Shipped separately
	P1 ²	30K 3000K	80CRI	T2M Type II Medium	347 ⁵		
	P2 ²	40K 4000K	LW ³ Limited Wavelength	T3M Type III Medium	480 ⁵		
	P3 ²	50K 5000K		T4M Type IV Medium			
	P4 ²	AMB ³ Amber		TFTM Forward Throw Medium			
						SRM Surface mounting bracket	AWS 3/8inch Architectural wall spacer
						ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁶	PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available

Options			Finish
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	Standalone Sensors/Controls PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation. PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation. Networked Sensors/Controls NLTAIR2 PIR Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights. NLTAIR2 PIRH Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights. NLTAIREM2 Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights PIRH photocell for 15-30' mounting heights See page 4 for out of box functionality	DDBXD Dark bronze
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)		DBLXD Black
PE ⁷	Photocell, Button Type		DNAXD Natural aluminum
DMG ⁸	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)		DWHXD White
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.		DSSXD Sandstone
CCE	Coastal Construction	DBBTXD Textured dark bronze	
		DBLXD Textured black	
		DNATXD Textured natural aluminum	
		DWHGXD Textured white	
		DSSTXD Textured sandstone	



COMMERCIAL OUTDOOR

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WDGE2 LED

Rev. 05/30/24

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD U	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

NOTES

- 1 P0 option not available with sensors/controls.
- 2 P1-P4 not available with AMB and LW.
- 3 AMB and LW always go together.
- 4 70CRI only available with T3M and T4M.
- 5 347V and 480V not available with E10WH or E20WC.
- 6 Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
- 7 PE not available in 480V or with sensors/controls.
- 8 DMG option not available with sensors/controls.

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.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)					Amber (Limited Wavelength)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T1S	636	92	0	0	0	666	97	0	0	0	699	101	0	0	1	691	100	0	0	1	712	47	0	0	1
		T2M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T3M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T4M	648	94	0	0	0	679	98	0	0	0	712	103	0	0	0	704	102	0	0	0	726	47	0	0	0
		TFTM	652	95	0	0	0	683	99	0	0	0	717	104	0	0	0	708	103	0	0	0	730	48	0	0	1
P1	11W	T1S	1,105	99	0	0	1	1,157	104	0	0	1	1,215	109	0	0	1	1,200	107	0	0	1					
		T2M	1,150	103	0	0	1	1,204	108	0	0	1	1,264	113	0	0	1	1,249	112	0	0	1					
		T3M	1,150	103	0	0	1	1,205	108	0	0	1	1,265	113	0	0	1	1,250	112	0	0	1					
		T4M	1,126	101	0	0	1	1,179	106	0	0	1	1,238	111	0	0	1	1,223	110	0	0	1					
		TFTM	1,133	101	0	0	1	1,186	106	0	0	1	1,245	112	0	0	1	1,230	110	0	0	1					
P2	19W	T1S	1,801	95	1	0	1	1,886	99	1	0	1	1,981	104	1	0	1	1,957	103	1	0	1					
		T2M	1,875	99	1	0	1	1,963	103	1	0	1	2,061	109	1	0	1	2,037	107	1	0	1					
		T3M	1,876	99	1	0	1	1,964	103	1	0	1	2,062	109	1	0	1	2,038	107	1	0	1					
		T4M	1,836	97	1	0	1	1,922	101	1	0	1	2,018	106	1	0	1	1,994	105	1	0	1					
		TFTM	1,847	97	1	0	1	1,934	102	1	0	1	2,030	107	1	0	1	2,006	106	1	0	1					
P3	32W	T1S	2,809	87	1	0	1	2,942	92	1	0	1	3,089	96	1	0	1	3,052	95	1	0	1					
		T2M	2,924	91	1	0	1	3,062	95	1	0	1	3,215	100	1	0	1	3,176	99	1	0	1					
		T3M	2,925	91	1	0	1	3,063	95	1	0	1	3,216	100	1	0	1	3,177	99	1	0	1					
		T4M	2,862	89	1	0	1	2,997	93	1	0	1	3,147	98	1	0	1	3,110	97	1	0	1					
		TFTM	2,880	90	1	0	1	3,015	94	1	0	1	3,166	99	1	0	1	3,128	97	1	0	1					
P4	47W	T1S	3,729	80	1	0	1	3,904	84	1	0	1	4,099	88	1	0	1	4,051	87	1	0	1					
		T2M	3,881	83	1	0	1	4,063	87	1	0	1	4,267	91	1	0	1	4,216	90	1	0	1					
		T3M	3,882	83	1	0	1	4,065	87	1	0	1	4,268	91	1	0	1	4,217	90	1	0	1					
		T4M	3,799	81	1	0	1	3,978	85	1	0	1	4,177	90	1	0	1	4,127	88	1	0	1					
		TFTM	3,822	82	1	0	1	4,002	86	1	0	1	4,202	90	1	0	1	4,152	89	1	0	1					

Performance Package	System Watts	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T3M	737	107	0	0	0	763	111	0	0	0	822	119	0	0	0	832	121	0	0	1
		T4M	721	105	0	0	0	746	108	0	0	0	804	117	0	0	1	814	118	0	0	1
P1	11W	T3M	1,280	115	0	0	1	1,325	119	0	0	1	1,427	128	1	0	1	1,445	129	1	0	1
		T4M	1,253	112	0	0	1	1,297	116	0	0	1	1,397	125	0	0	1	1,415	127	0	0	1
P2	19W	T3M	2,087	110	1	0	1	2,160	114	1	0	1	2,327	123	1	0	1	2,357	124	1	0	1
		T4M	2,042	108	1	0	1	2,114	111	1	0	1	2,278	120	1	0	1	2,306	121	1	0	1
P3	32W	T3M	3,254	101	1	0	1	3,369	105	1	0	1	3,629	113	1	0	1	3,675	114	1	0	1
		T4M	3,185	99	1	0	1	3,297	103	1	0	1	3,552	111	1	0	1	3,597	112	1	0	1
P4	47W	T3M	4,319	93	1	0	1	4,471	96	1	0	1	4,817	103	1	0	2	4,878	105	1	0	2
		T4M	4,227	91	1	0	1	4,376	94	1	0	2	4,714	101	1	0	2	4,774	102	1	0	2

Electrical Load

Performance Package	System Watts	Current (A)					
		120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	--	--
	9.0	--	--	--	--	0.031	0.021
P1	11.0	0.100	0.064	0.059	0.054	--	--
	14.1	--	--	--	--	0.046	0.031
P2	19.0	0.168	0.106	0.095	0.083	--	--
	22.8	--	--	--	--	0.067	0.050
P3	32.0	0.284	0.163	0.144	0.131	--	--
	37.1	--	--	--	--	0.107	0.079
P4	47.0	0.412	0.234	0.207	0.185	--	--
	53.5	--	--	--	--	0.153	0.112

Lumen Output in Emergency Mode
(4000K, 80 CRI, T3M)

Option	Lumens
E10WH	1,358
E20WC	2,230

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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

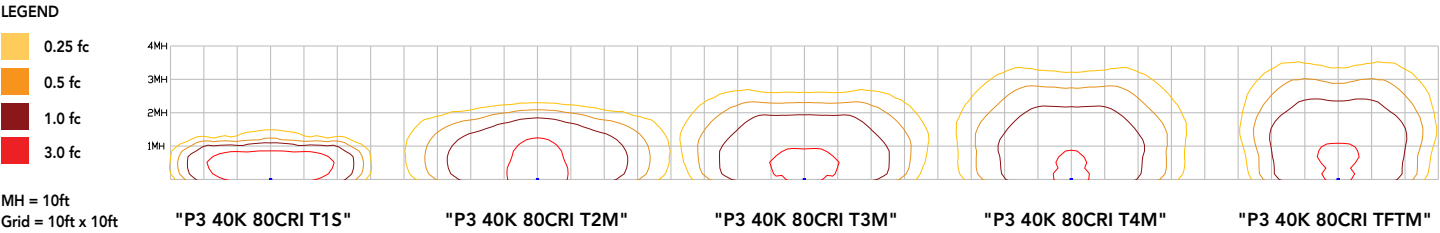
Projected LED Lumen Maintenance

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.93	>0.87

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

Motion/Ambient Sensor (PIR, PIRH)

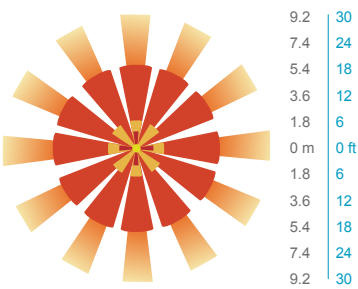
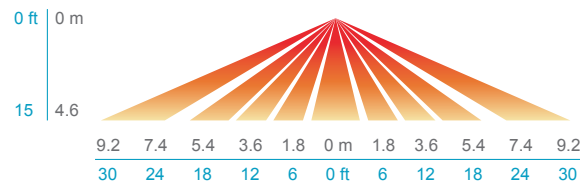
Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

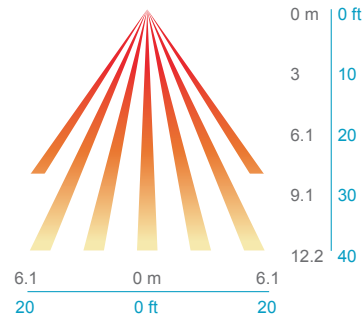
PIR

HIGH VIEW



PIRH

SIDE VIEW



TOP VIEW



Option	Dim Level	High Level (when triggered)	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec



Motion/Ambient Sensor

D = 7"

H = 9" (Standalone controls)

11" (nLight AIR controls, 2" antenna will be pointing down behind the sensor)

W = 11.5"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 9"

W = 11.5"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted 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 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. The WDGE LED 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 consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. 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 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 2700K and 3000K color temperature only and SRM mounting only.

GOVERNMENT PROCUREMENT

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.

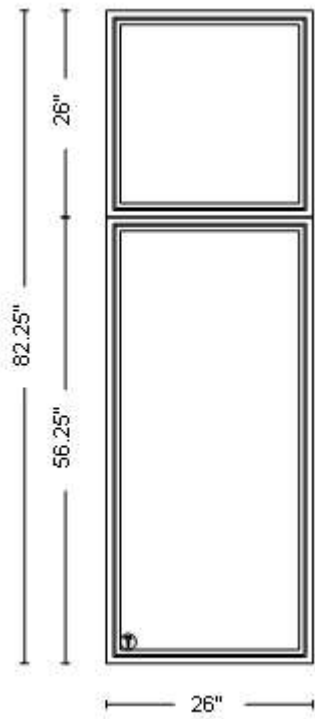
WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: 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.

Customer Approval Form:

Signature: _____ Date: _____



Viewed from the Exterior

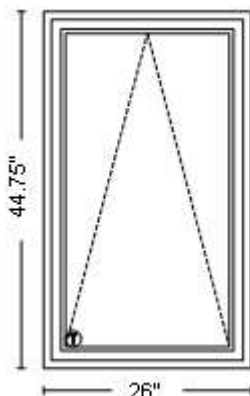
Quote Number: 18198045
Line Number: 10
Quote Qty: 8
Scaling: 1/2" = 1'
Description: Impervia, Direct Set Fixed Frame Rectangle, Impervia, Direct Set Fixed Frame Rectangle, 26 X 82.25,
Rough Opening: 26.5" X 82.75"
Performance Information: U-Factor 0.27, SHGC 0.32, VLT 0.61, CPD PEL-N-257-00206-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 55, Year Rated 08|11, STC 28, OITC 23
Performance Information: U-Factor 0.27, SHGC 0.32, VLT 0.61, CPD PEL-N-257-00206-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 55, Year Rated 08|11, STC 28, OITC 23

These drawings are based on our interpretation of the information provided to us. They are submitted for final approval of the individual** responsible for the project and are not intended to create any warranty or other liability. The user** is responsible for compliance with applicable building codes or other regulations and determining the suitability of the suggestions for the particular application, including the final design of reinforcement, flashing, and sealant systems for all window and door installations.
** building owner, architect, contractor, installer and/or consumer

	Quote Name: 184-	Project Name: Feeding Champlain Valley
	Jobsite Location: South Burlington, VT	
	Room Location: TYPE A	
	Sales Branch Location: 18400 PELLA PRODUCTS INC	

Customer Approval Form:

Signature: _____ Date: _____



Viewed from the Exterior

Quote Number: 18198045

Line Number: 15

Quote Qty: 18

Scaling: 1/2" = 1'

Description: Impervia, Awning, Vent, 26 X 44.75, Black

Rough Opening: 26.5" X 45.25"

Performance Information: U-Factor 0.28, SHGC 0.26, VLT 0.49, CPD PEL-N-278-00567-00001, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 60, Year Rated 11, STC 29, OITC 25, Egress Not Applicable

These drawings are based on our interpretation of the information provided to us. They are submitted for final approval of the individual** responsible for the project and are not intended to create any warranty or other liability. The user** is responsible for compliance with applicable building codes or other regulations and determining the suitability of the suggestions for the particular application, including the final design of reinforcement, flashing, and sealant systems for all window and door installations.
** building owner, architect, contractor, installer and/or consumer



Quote Name: 184-

Project Name: Feeding Champlain Valley

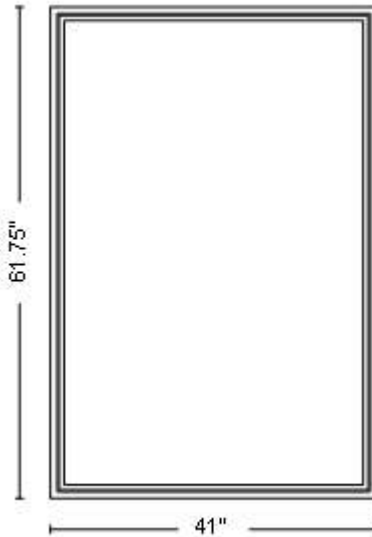
Jobsite Location: South Burlington, VT

Room Location: TYPE B

Sales Branch Location: 18400 PELLA PRODUCTS INC

Customer Approval Form:

Signature: _____ Date: _____



Viewed from the Exterior

Quote Number: 18198045

Line Number: 20

Quote Qty: 1

Scaling: 1/2" = 1'

Description: Impervia, Direct Set, Fixed Frame Rectangle, 41 X 61.75, Black

Rough Opening: 41.5" X 62.25"

Performance Information: U-Factor 0.27, SHGC 0.32, VLT 0.61, CPD PEL-N-257-00206-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 08|11, STC 28, OITC 23

These drawings are based on our interpretation of the information provided to us. They are submitted for final approval of the individual** responsible for the project and are not intended to create any warranty or other liability. The user** is responsible for compliance with applicable building codes or other regulations and determining the suitability of the suggestions for the particular application, including the final design of reinforcement, flashing, and sealant systems for all window and door installations.

** building owner, architect, contractor, installer and/or consumer



Quote Name: 184-

Project Name: Feeding Champlain Valley

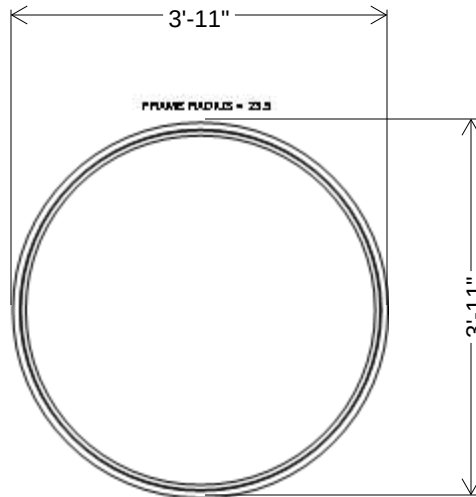
Jobsite Location: South Burlington, VT

Room Location: TYPE C

Sales Branch Location: 18400 PELLA PRODUCTS INC

Customer Approval Form:

Signature: _____ Date: _____



Viewed from the Exterior

Quote Number: 18198045

Line Number: 25

Quote Qty: 1

Scaling: 1/2" = 1'

Description: Special Impervia, Direct Set, Fixed Frame Circle, 47 X , Black

Rough Opening: 47.5" X 47.5"

Performance Information: U-Factor 0.27, SHGC 0.33, VLT 0.62, CPD PEL-N-127-03601-00005, Performance Class CW, PG 30, Year Rated 11, STC 27, OITC 21

These drawings are based on our interpretation of the information provided to us. They are submitted for final approval of the individual** responsible for the project and are not intended to create any warranty or other liability. The user** is responsible for compliance with applicable building codes or other regulations and determining the suitability of the suggestions for the particular application, including the final design of reinforcement, flashing, and sealant systems for all window and door installations.

** building owner, architect, contractor, installer and/or consumer



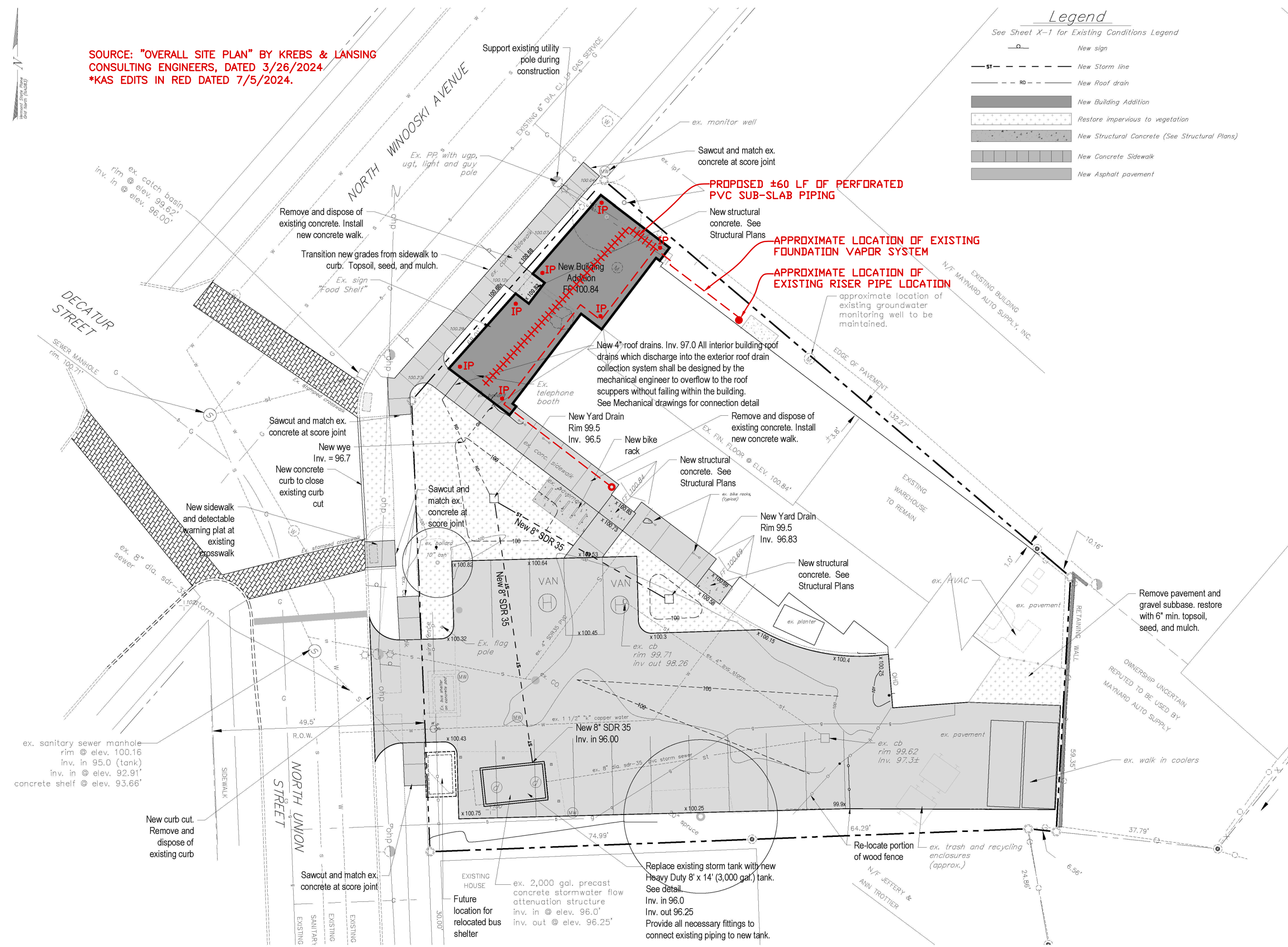
Quote Name: 184-

Project Name: Feeding Champlain Valley

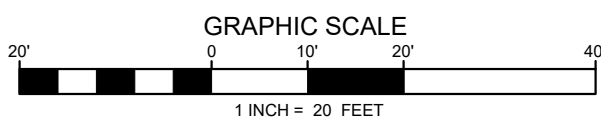
Jobsite Location: South Burlington, VT

Room Location: TYPE D

Sales Branch Location: 18400 PELLA PRODUCTS INC



PROPOSED SSD SYSTEM SUB-SLAB LAYOUT
SCALE: 1" = 20'



CONTACTS

PROPERTY OWNER:
CHAMPLAIN HOUSING TRUST
88 KING STREET
BURLINGTON, VT 05401
KRISTEN MERRIMAN SHAPIRO
kristen.merrimanshapiro@champlainhousingtrust.org
(802) 862-6244
DONAL DUGAN
ddugan@getahome.org
(802) 399-9335
ENVIRONMENTAL CONSULTANT:
KAS, INC.
589 AVENUE D, SUITE #10
WILLISTON, VT 05495
PROJECT MANAGER:
CLARE SANTOS
(802) 383-0486 x106
ClareS@kas-consulting.com
VTDEC PROJECT MANAGER:
RICHARD SPIESE
(802) 249-5063
richard.spiese@vermont.gov

BUILDING NOTES

- REFERENCES
1.1. "OVERALL SITE PLAN", C-1, KREBS & LANSING CONSULTING ENGINEERS, DATED 3/26/2024
1.2. "OCTOBER 2017 SUBSURFACE INVESTIGATION TESTING REPORT", KAS, INC., DATED 01/19/2018
- COMMERCIAL SPACE TO BE FINISHED PER OCCUPANCY REQUIREMENTS.
- ANY CHANGES TO THE BUILDING DESIGN LAYOUT THAT MAY INTERFERE WITH THE BUILDING PROTECTION DESIGN SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF KAS, INC.
- KAS, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE BUILDING PLANS AND ANY CHANGES FOLLOWING THE ISSUANCE OF THE ABOVE REFERENCED DRAWINGS.

KREBS & LANSING PLAN NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DISTURBED AREAS BACK TO ORIGINAL CONDITION, INCLUDING BUT NOT LIMITED TO CURBING, SIDEWALKS, ROAD, PARKING AREAS, LANDSCAPING, SITE LIGHTING, ELECTRICAL, AND ETC. ALL ASPHALT SHALL BE SAWCUT PRIOR TO PAVING.
- ALL STUMPS, ROCK, AND OTHER NON-APPROVED TRENCH BACKFILL MATERIAL DISCOVERED DURING CONSTRUCTION IS THE EXCLUSIVE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF IN A STATE APPROVED DISPOSAL LOCATION.
- ALL PASSING COMPACTION AND SIEVE TESTING EXPENSES SHALL BE PAID BY OWNER. TESTING COORDINATION AND EXPENSES FOR FAILED TESTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION BARRIER/SAFETY FENCING AND SIGNAGE NECESSARY TO PROVIDE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH OR AROUND THE SITE DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING TOPSOIL AS REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR SHALL TEST TOPSOIL FOR APPROVAL BY THE OWNER AND ENGINEER.
- ONE LANE ACCESS SHALL BE MAINTAINED AT THE ENTRANCE DRIVEWAY AT ALL TIMES. TRAFFIC CONTROL FLAG PEOPLE SHALL BE USED WHEN TWO WAY TRAFFIC IS REDUCED TO ONE LANE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN AND OBTAINING ALL CITY PERMITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING WITH THE CITY OF BURLINGTON PUBLIC WORKS TO OBTAIN THE NECESSARY CONSTRUCTION PERMIT WITHIN THE CITY RIGHT OF WAY. THE FEE AND ALL APPLICATION REPARATION (INCLUDING TRAFFIC CONTROL PLANS, ETC.) FOR THE PERMIT WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- WHERE PLANS INDICATE RESTORE TO VEGETATION, CONTRACTOR SHALL REMOVE AND DISPOSE OF IMPERVIOUS SURFACE AND SUBBASE. FILL TO WITHIN 4" OF FINISH GRADE, PLACE 4" TOPSOIL, AND HYDROSEED (OR SEED AND STABILIZE WITH ROLLED EROSION MATTING).
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL PAVEMENT MARKINGS.
- NO CONTRACTOR EQUIPMENT SHALL BE STARTED BEFORE 7:00 A.M.
- ALL SIDEWALKS SHALL HAVE A 2% CROSS SLOPE.

TRENCHING NOTES

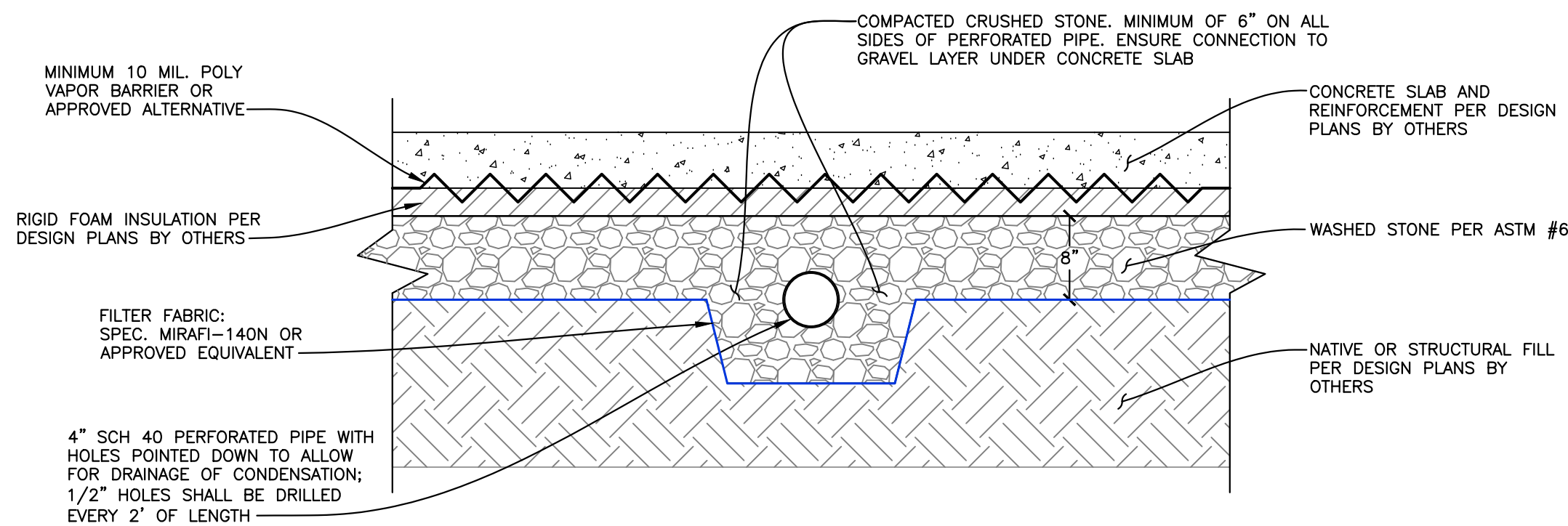
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE (MIN. 1/8" PER FOOT) WITHIN ANY SOLID VENT PIPE TOWARDS PERFORATED PIPE SECTIONS TO ALLOW FOR DRAINAGE OF CONDENSATION.
- ALL LOW POINTS IN THE SUB-SLAB DEPRESSURIZATION PIPE NETWORK SHALL BE PERFORATED PIPE WITH A MINIMUM 3' LENGTH TO ALLOW FOR DRAINAGE OF CONDENSATION INTO 3/4" CRUSHED STONE

LEGEND

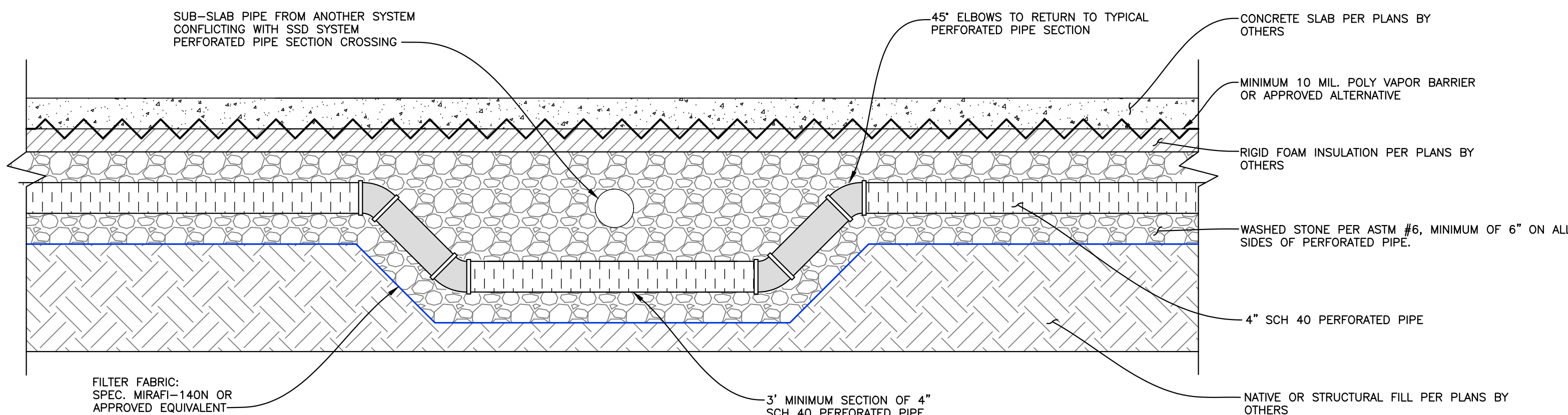
- EXISTING SUBSURFACE VENT SYSTEM
++++ PROPOSED HORIZONTAL PIPING FOR SUB-SLAB DEPRESSURIZATION SYSTEM
IP IP = INFLUENCE POINT, TEMPORARY DIAGNOSTIC TESTING POINT, SEE SSD SYSTEM NOTE #7

SUB-SLAB DEPRESSURIZATION SYSTEM NOTES

- PLAN SHEET ENV.1 FOR ENVIRONMENTAL COMPONENTS RELATED TO THE BUILDING PROTECTION PLAN ONLY. REFER TO CONTRACT DOCUMENTS BY OTHERS FOR DETAILS REGARDING ALL OTHER BUILDING COMPONENTS.
- DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS IN THE FIELD.
- SUB-SLAB PIPING AND ALL SUB-SLAB DESIGN ELEMENTS SHALL BE COORDINATED WITH DESIGN PLANS BY OTHERS SUCH AS FOUNDATION, STRUCTURAL, ARCHITECTURAL, AND PLUMBING PLANS.
- ALL PVC JOINTS SHALL BE SOLVENT WELDED.
- COORDINATE LOCATION OF SUB-SLAB PIPING WITH OTHER UTILITIES IN THE BUILDING. PIPING ALIGNMENTS SHALL USE ELBOWS 45 DEGREES OR LESS. THE FINAL RISER LOCATION SHALL REMAIN AS IS ON THE NORTHERN SIDE OF THE EXISTING BUILDING.
- THE SUB-SLAB PERFORATED PIPING WILL EXIT THE ADDITION AND TIE INTO THE EXISTING FOUNDATION PERFORATED PIPING THAT IS INSTALLED AROUND THE OUTSIDE OF THE SLAB. THE EXISTING PIPING WILL BE BUT AND A TEE FITTING WILL BE INSTALLED. THE EXITING RISER PIPE AND FAN ASSEMBLY LOCATED ON THE NORTHERN SIDE OF THE EXISTING BUILDING WILL REMAIN IN PLACE. SEE NOTES 8 AND 9 FOR ADDITIONAL INFORMATION REGARDING POTENTIAL FAN UPGRADE.
- APPROXIMATELY 7 VACUUM INFLUENCE POINTS FOR INFLUENCE TESTING WILL BE DRILLED THROUGH THE CONCRETE SLAB USING A HAMMER DRILL AT THE NOTED LOCATIONS ON SHEET ENV.1. FOLLOWING THE FINAL DIAGNOSTIC TESTING, THE POINTS WILL BE PERMANENTLY SEALED WITH CONCRETE OR POLYURETHANE CAULKING.
- COORDINATE WITH KAS, INC. 589 AVENUE D, SUITE 10, WILLISTON, VT 05495 (802-383-0486) FOR CONSTRUCTION INSPECTIONS OF THE HORIZONTAL SUB-SLAB PIPING NETWORK PRIOR TO BACKFILLING. CONTACT KAS, INC. FOR ALL DIAGNOSTIC TESTING DURING CONSTRUCTION PRIOR TO THE INSTALLATION OF FLOOR COVERINGS. DIAGNOSTIC TESTING REQUIRES ALL FLOOR PENETRATIONS TO BE PROPERLY SEALED AND FULL INSTALLATION OF THE SSD SYSTEM.
- IF THE EFFECTIVE DEPRESSURIZATION IS UNABLE TO BE ACHIEVED DURING THE DIAGNOSTIC TESTING A LARGER FAN SHALL BE INSTALLED AT THE RISER PIPE, SEE NOTE 10.
- IF A LARGER FAN IS REQUIRED, IT SHALL BE A RADONAWAY RP265 OR EQUIVALENT BLOWER(S) TO ACHIEVE >0.01" WC VACUUM BELOW ALL SLAB LOCATIONS IN AREAS TO BE PROTECTED.
- ALL OTHER SYSTEM COMPONENTS SHALL BE COMPATIBLE WITH THE FAN AND MAY BE LOCATED AT RADONAWAY.COM.
- WITH THE FAN INSTALLATIONS, USE A CHECKPOINT IIA RADON MITIGATION ALARM OR EQUIVALENT AND A MANOMETER WILL BE INSTALLED AT THE RISER PIPE. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER REGARDING THE LOCATION OF THE ALARM.
- CONTRACTOR SHALL ENSURE THAT THE POWER SOURCE IS WEATHERPROOF.
- LABEL ALL SYSTEM COMPONENTS "SOIL GAS MITIGATION" INCLUDING RISER PIPES AND FANS THROUGHOUT THE SYSTEM. IN PARTICULAR, THIS SHALL BE DONE AT ANY VISIBLE AND LOCATIONS NEAR BUILDING PLUMBING, RESTROOMS, SHOWERS, OR KITCHENS OR WHERE AN ACCIDENTAL SEWER CONNECTION MAY OCCUR, INCLUDING COMPONENTS WITHIN THE WALL STRUCTURES AND ATTIC SPACES.
- SEAL ALL SLAB OPENINGS WITH POLYURETHANE CAULK, INCLUDING BUT NOT LIMITED TO, CONTROL AND EXPANSION JOINTS, PLUMBING PENETRATIONS, SEWER PENETRATIONS, SUMPS, FLOOR DRAINS, ELECTRICAL PENETRATIONS, ETC. ADDITIONAL OPENINGS, CHANNEL DRAINS, JOINTS (INCLUDING FLOOR-WALL JOINTS) SHALL BE SEALED WITH POLYURETHANE CAULK OR EQUIVALENT MATERIAL FOR ALL ROOMS ON THE FIRST FLOOR.
- THE CONTRACTOR SHALL ENSURE THAT THE RISER PIPING IS SUPPORTED EVERY 8 FEET.
- THE RISER PIPE LOCATED ALONG THE NORTHERN SIDE OF THE EXISTING BUILDING SHALL REMAIN EXPOSED OR ACCESSIBLE FOR SAMPLING AND MAINTENANCE PURPOSES.
- ALL MATERIALS TO BE SUBMITTED TO KAS, INC. FOR FINAL APPROVAL.
- THE OWNER WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE SSD SYSTEM OVER TIME WITH REPLACEMENT IF NEEDED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CONSTRUCTION AND CONTINUED MAINTENANCE OF THE SYSTEM.



SUB-SLAB PERFORATED PIPE TRENCH WITHOUT FULL SUB-BASE COVERAGE
NTS

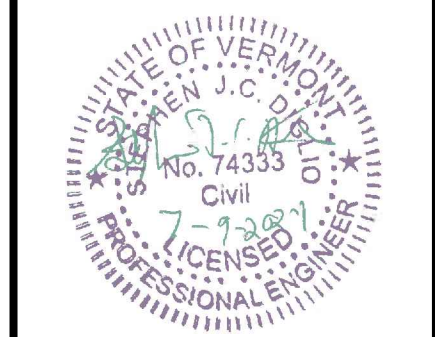


SUB-SLAB PERFORATED PIPE TRENCH AT UTILITY CROSSINGS
NTS

FINAL DESIGN FOR PERMITTING PURPOSES ONLY

REVISIONS	BY

Environmental Science and Engineering
589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495
www.kas-consulting.com
802 383 0486 P
802 383 0490 F



FEEDING CHITTENDEN
SUB-SLAB DEPRESSURIZATION SYSTEM DESIGN
228 NORTH WINOOSKI AVENUE
BURLINGTON, VERMONT
SMS #91-1054

DRAWN TB
CHECKED CS/JR/SJD
DATE 7/9/2024
SCALE AS NOTED
JOB NO. 502230698
SHEET

ENV.1

Chittenden Emergency Food Shelf 228 North Winooski Avenue Burlington, Vermont

SMS # 91-1054
KAS Job #510170466

SOIL MANAGEMENT PLAN

January 19, 2018

Prepared for:

City of Burlington Community & Economic
Development Office
City Hall, 149 Church Street
Burlington, Vermont 0540



589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495

www.kas-consulting.com

802 383.0486 p
802 383.0490 f



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Appendices

Appendix A 1) Vicinity Map
 2) Site Plan

Appendix B Architectural Plans

1.0 Introduction

KAS, Inc. (KAS) has prepared this Soil Management Plan (SMP) to be implemented during construction and redevelopment activities at the Chittenden Emergency Food Shelf located at 228 North Winooski Avenue in Burlington, Vermont (Site). A Vicinity Map and Site Plan are provided in Appendix A. Architectural design plans for the building expansion are provided in Appendix B. This SMP was completed in accordance with KAS' proposal, dated September 11, 2017, which was approved by Mr. William Clavelle of the City of Burlington Community & Economic Development Office (CEDO) and by Mr. Richard Spiese, of the Vermont Department of Environmental Conservation (VT DEC).

Based on past subsurface investigations, soils beneath the Site have been determined to be impacted with tetrachloroethene (PCE), polycyclic aromatic hydrocarbons (PAHs), and lead. Therefore, the management of soils during construction and redevelopment activities must comply with VT DEC Remediation of Contaminated Properties Rule (I-Rule). This SMP has been prepared as a site-specific guide, the purpose of which is to prevent worker exposure to impacted soils and ensure proper soil handling, transport, and disposal options in accordance with the I-Rule.

2.0 Site Background

The Site consists of a 0.391-acre parcel¹ developed with a single story building with a utility penthouse. The Site currently operates as a community food shelf and soup kitchen, and has office space and storage areas. Past uses of the property included an auto repair and body shop and a gas station.² The building is planned for redevelopment as described in Section 3.0.

2.1 Contaminants of Concern

2.1.1 PCE in Groundwater, Soil, and Sub-slab Soil Vapors

Historical site investigations conducted at the property between 1990 and 1994 identified the presence of gasoline underground storage tanks (USTs). Soil sampling conducted beneath the USTs during removal indicated the presence of the chlorinated solvent PCE. Subsequent investigations have indicated the presence of PCE impacted subsurface soils and groundwater beneath the Site, as well as sub-slab soil vapor gas. To date, the source of the PCE has not been determined and the potential for off-site historical commercial and industrial sites has not been ruled out.

Groundwater beneath the Site is impacted with PCE at levels above Vermont Groundwater Enforcement Standards (VGES).³ Groundwater has been observed at 54 to 60 feet below the ground surface. Based on this depth, risk of exposure to PCE impacted groundwater, during planned excavation activities, is considered negligible.

¹ Land Survey by Cross Consulting Engineers, 1992

² Phase I Environmental Site Assessment by ATC, June 2017

³ October 2017 Subsurface Investigation and Testing by KAS, November 2017



PCE has been reported in soils beneath the area of planned excavation but at levels below screening levels.

A vapor intrusion assessment conducted in 2016 (by ATC)⁴ and 2017 (by KAS) showed that vapor intrusion is likely occurring in the building; however, during both sampling events, PCE in the sub-slab soil vapors were reported at levels below the applicable industrial screening value. KAS recommended that the existing foundation ventilation system be completed with a passive exhaust system and confirmatory sampling to be conducted after the modification.⁵ Protection from vapor intrusion should also be considered for the planned building addition.

2.1.2 PAHs and Lead in Soil

Historic use of the Site within an urban setting, and the presence of historic fill material beneath the Site, has resulted in shallow soil impacts of PAHs and lead. In both soil samples, PAHs expressed as the total toxic equivalent quotient (TEQ) for benzo(a)pyrene (BaP) exceeded both the industrial screening level and background level for urban sites. Lead exceeded the background level for urban sites but was below the industrial screening level.

2.2 Other Contaminants

No other contaminants of concern are known to be present beneath the Site based on the property's historic use and previous subsurface analytical testing. Should other contaminants be encountered in subsurface soils or suspected to be present based on visual or olfactory observations, the site contractors shall follow the procedures outlined herein in order to comply with the Vermont Hazardous Waste Management Regulations and with the VT DEC I-Rule.

3.0 Redevelopment Plans

The Site has plans for redevelopment as summarized below:

- Project #1 – Accessibility Improvement: This project will improve the building accessibility for clients with mobility challenges. The scope of work includes interior renovations and curb cuts in existing sidewalk on North Union Street.
- Project #2 – Two Story Addition: This project involves the expansion of the building on the west side between the existing building and North Winooski Avenue. It will require a new slab on grade foundation with frost wall and spread footing. Maximum excavation depth for the foundation is estimated to be 5 feet below grade.

Based on the architectural plans (see Appendix B) and foundation design, the amount of soil to be excavated for the new foundation is estimated to be 72 cubic yards or 109 tons. Additional soil may be excavated for utilities and, if so, should also be managed in accordance with this SMP.

⁴ Fall 2016 Vapor Intrusion Assessment Report by ATC, February 2017

⁵ October 2017 Subsurface Investigation and Testing by KAS, November 2017

4.0 Soil Management Plan

4.1 Excavation

The potential exposure pathways to be addressed at this Site during soil excavation are: inhalation of dust; dermal contact with contaminated soil; and, ingestion of contaminated soil. During construction, intrusive Site work in the contaminated portion of the Site resulting in exposed soils will take place under the authority of the Health and Safety Plan (HASP) in accordance with Occupational Safety and Health Administration (OSHA) requirements 29 CFR 1910 as implemented and enforced by the designated Site Safety Officer. These measures are the accepted mechanism for compliance with federal regulations regarding worker safety and health, and will effectively address concerns related to inhalation, adsorption, and ingestion of constituents of concern during construction. Additionally, dust control, engineering and institutional controls will be implemented to reduce risk to minimal levels.

Generation of dust during excavation and handling should be limited to minimize the inhalation pathway during construction. All excavated surfaces will be wetted as needed to minimize dust. The soils loaded onto the transport vehicles must be covered. Visible emissions of dust from the Site or from transport vehicles will not be permitted.

All equipment used during excavation of contaminated soils should be properly decontaminated before using the equipment for other on site uses, or before removing the equipment from the property. Efforts to eliminate tracking contaminated soils onto area roadways via vehicle treads should be implemented. All site contractors, that may be in contact with the impacted soil, should be trained in OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER).

4.2 Management Options of Contaminated Soils

4.2.1 Soil Stockpiling

It is not anticipated that soils will need to be temporarily stockpiled for significant lengths of time. Should contaminated soils need to be temporarily stockpiled, they shall be covered with minimum 6 mil plastic sheeting which shall be weighted sufficiently to keep the plastic in place. Sufficient berms and other runoff control measures will be employed to control stormwater runoff and consequent sediment transport that can take place. Temporary fencing shall be installed to protect the site users from coming into contact with the stockpile. Since these structures will be temporary and configuration will be subject to very site specific circumstances, specific designs are not being advanced at this time but will be discussed with the contractor at the time of construction. Petroleum impacted soils, if encountered, shall be stockpiled separately to the extent possible. In this scenario, since petroleum contaminants would be considered a newly identified contaminant, additional sampling and analysis of the soils would be required for proper characterization. Per the I-Rule, temporary stockpiling may not occur between December 1st and April 1st unless approved through a Corrective Action Plan (CAP).

4.2.2 Backfilling

Contaminated soils, which are geotechnically suitable, shall be backfilled in a manner that mitigates potential exposures whenever possible. Such mitigation measures include placing

contaminated soil beneath capped areas by concrete (sidewalk or building slab) or asphalt (pavement) and at a minimum of 3 feet away from utility lines. If contaminated soils are to be re-used on site for fill, they should be placed back into the area at which they were removed.

4.2.3 Soil Disposal

In accordance with the I-Rule, contaminated soils may be brought to either a 1) receiving site, 2) categorical disposal facility, or 3) solid waste facility (e.g., landfill or at a thermal treatment facility). For the purpose of this SMP, it is presumed that all excess geotechnically unsuitable contaminated soils will be disposed via a solid waste facility. Generally, confirmatory soil sampling is required in order to obtain approval by the solid waste facility. Results of the soil sampling and analysis that was conducted by KAS in October 2017⁶ may be used for this purpose. Due to the high concentration of lead (e.g., 160 mg/kg), additional testing via toxicity characteristic leaching procedure (TCLP) for lead will likely be required to show that the soil does not meet the hazardous waste classification. Contaminated soil shipped off-site will be manifested in accordance with the Vermont Hazardous Waste Management Regulations. The following table provides a list of potential waste disposal facilities and laboratories:

Waste Disposal Facilities		
ESMI (Thermal Treatment Facility)	Contact: Mike Phelps Louden, NH	(800) 950-7645 mphelps@esmiofnh.com
New England Waste Services of Vermont	Contact: Scott Sampson Coventry, VT	(603) 235-3597 Scott.Sampson@casella.com
ENPRO Services of Vermont, Inc. ("EVI") TSDF	Contact: Brian Ouellette Williston, VT	(802) 488-3502 bouellette@nrcc.com
Laboratories		
Eastern Analytical, Inc	Contact: Jennifer Laramie Concord, NH	(603) 410-3881
Endyne, Inc	Contact: Eileen Toomey Williston, VT	(802) 879-4333
EMSL, Inc	Contact: Ellen Podell Cinnaminson, New Jersey	(800) 220-3675

5.0 Permitting, Approvals, and Reporting

Approvals and permits are required before excavation, transport and disposal can take place. Follow up reporting will be needed to document that the contaminated soils were managed appropriately.

5.1 Soil Management Plan

KAS has prepared this Soil Management Plan for review and approval by CEDO and the VT DEC. It is anticipated that the plan will be approved in sufficient time to allow for implementation during the 2018 construction season.

⁶ October 2017 Subsurface Investigation and Testing by KAS, November 2017

5.2 Health and Safety Plan (HASP)

Regarding matters of worker safety and OSHA requirements, contractors are responsible for establishing and following their own site specific health and safety plan.

Excavation activities must be conducted by personnel with hazardous sites training as prescribed by OSHA 1910.120. The excavation contractor must possess training certificates as well as required annual update certificates for all personnel involved with the excavation activities. A site-specific HASP must be prepared and implemented to govern the safety aspects of the subsurface investigation in accordance with the VOSHA requirements. A copy of the HASP must be kept on site and made available to other parties at any time requested.

5.3 Reporting

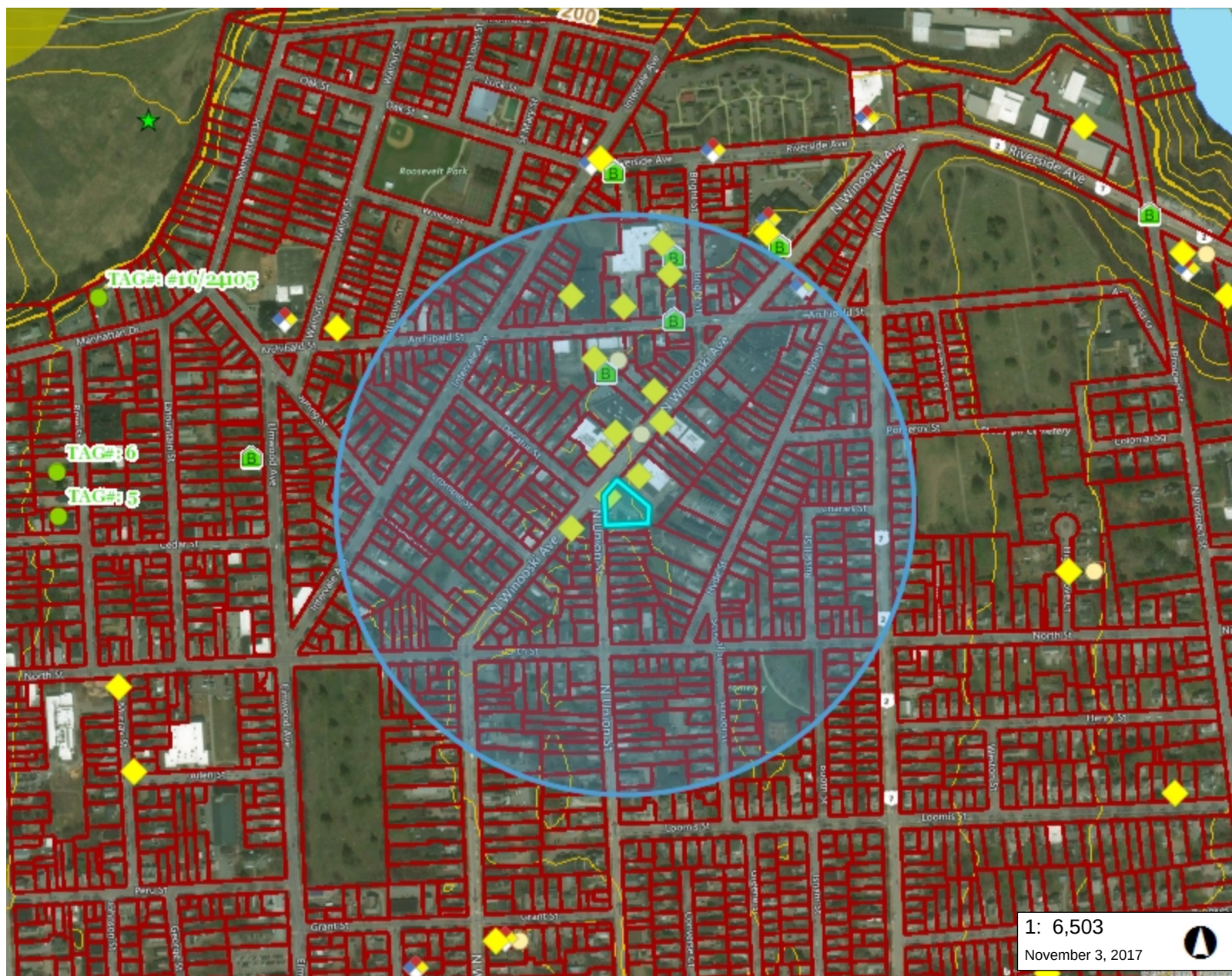
Final reporting of the management of contaminated soils must be completed upon completion of construction. The report should include the following points:

- Documentation of all required approvals;
- Dates of excavation of contaminated soils;
- Locations of contaminated soils reused on-site; and,
- Quantities of contaminated soils reused on-site and/or disposed of.



APPENDIX A

- 1) Vicinity Map**
- 2) Site Map**



LEGEND

- ★ Wetland Projects
- Wetland - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
 - Buffer
- ◆ Hazardous Site
- ◆ Hazardous Waste Generators
- ◆ Brownfields
- Aboveground Storage Tank
- Underground Storage Tank (w/ Private Wells)
- GPS Location
- screen digitized
- E911 Address
- Welldriller/Clarion
- Unknown
- Public Water Sources
 - Active
 - Proposed
 - Inactive
- Waterbody
- Stream
- Parcels (where available)
- Town Boundary

1: 6,503

November 3, 2017



NOTES

Map created using ANR's Natural Resources Atlas

330.0 0 165.00 330.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Vermont Agency of Natural Resources

1" = 542 Ft. 1cm = 65 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

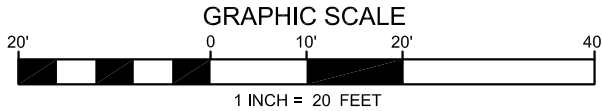
DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.



LEGEND

- MW-3  MONITORING WELL
- SB-1  SOIL BORING
- SSV-1  SUB-SLAB VAPOR POINT
- IN-1  INDOOR AMBIENT AIR SAMPLING LOCATION
- OUT-1  OUTDOOR AMBIENT AIR SAMPLING LOCATION
- PROPERTY LINE

NOTES:
1. BASE MAP DEVELOPED FROM VCGI ORTHOIMAGERY AND PARCEL MAPS, FIELD OBSERVATIONS BY KAS, INC. ON 10/30/17.
2. ALL UTILITES AND PROPERTY LINES ARE CONSIDERED APPROXIMATE.



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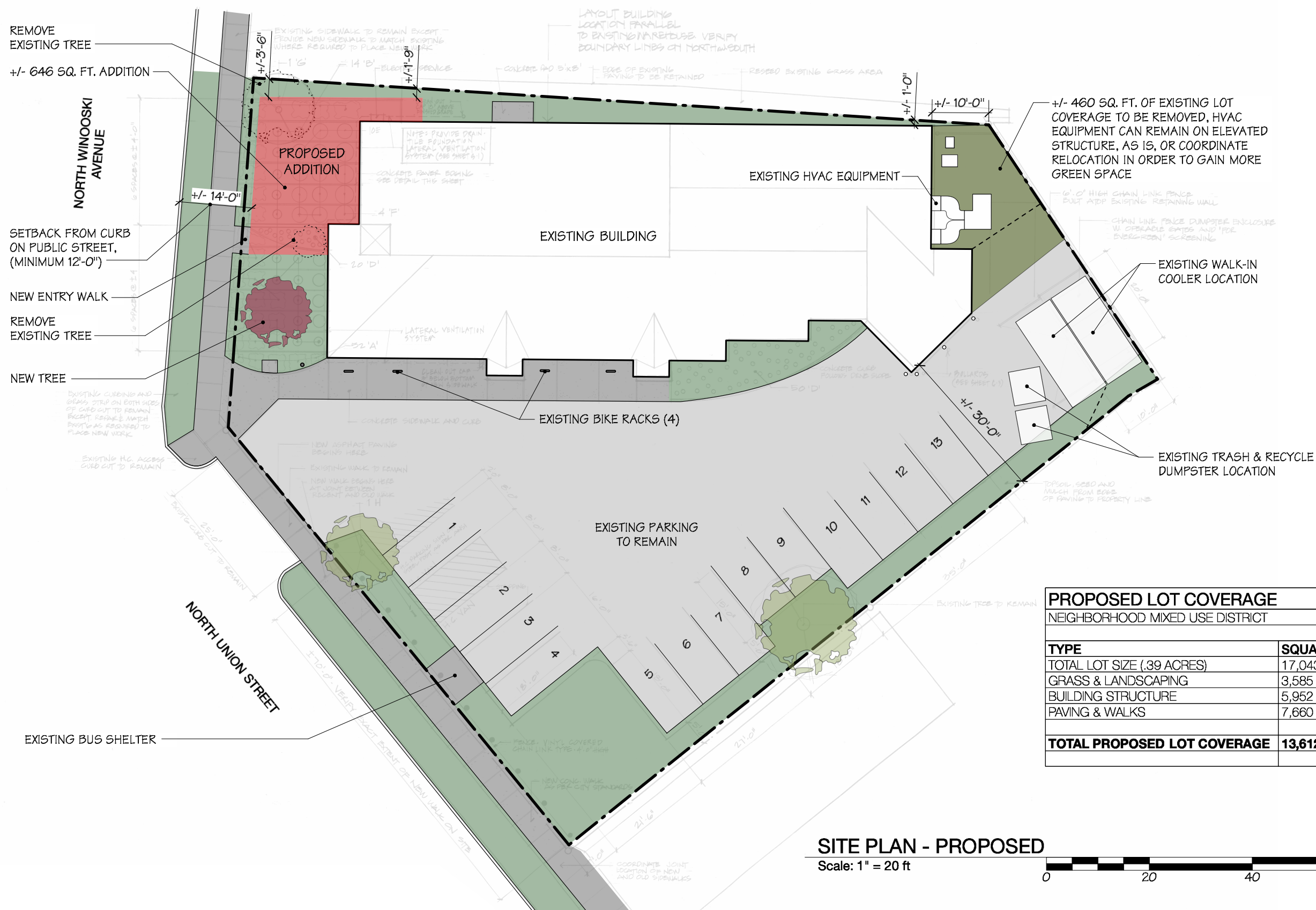
SITE PLAN

DATE: 11/8/17	DWG. #: 1	SCALE: 1"=20'	DRN: TB	APP: CS
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APPENDIX B

Architectural Plans



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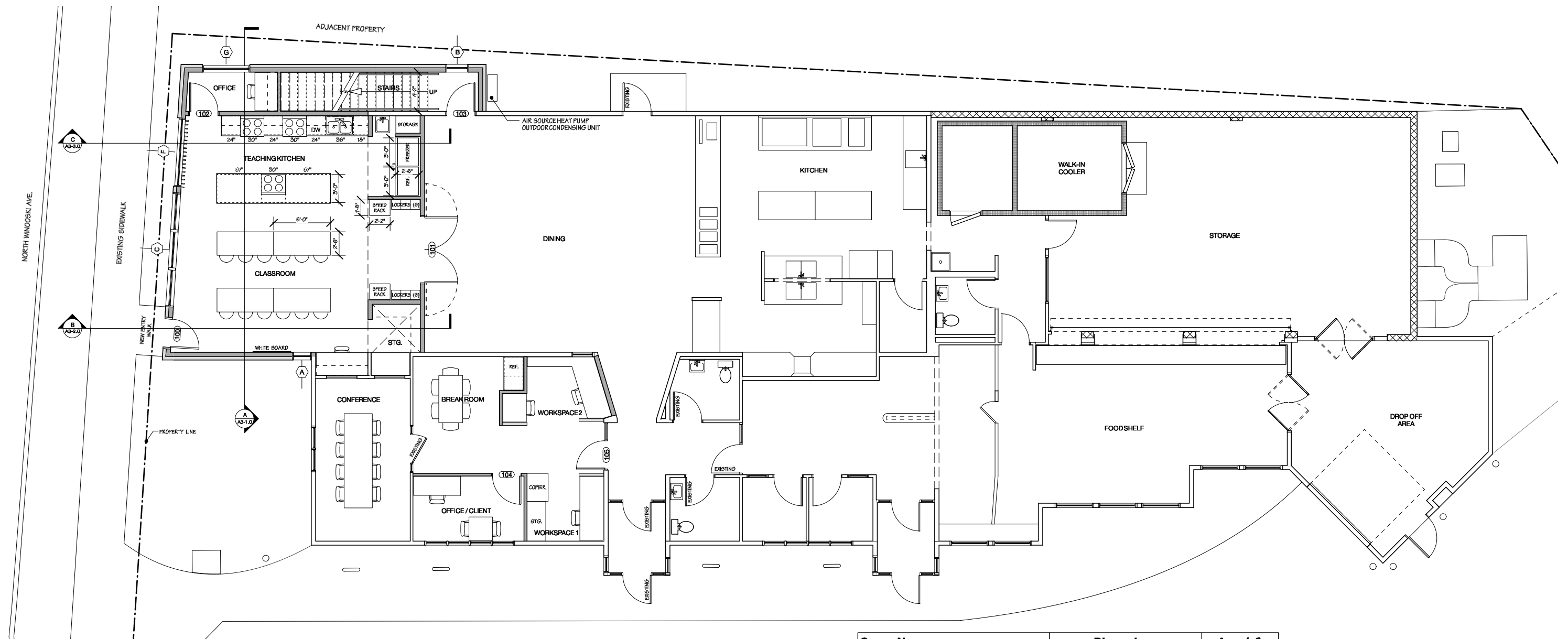
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DATE: 10.17.2017

A0-2.0



OVERALL FIRST FLOOR PLAN - PROPOSED
Scale: 3/32" = 1'-0"

Space Name	Dimensions	Area (sf)
FIRST FLOOR		
BREAK ROOM	12'6.0423" x 12'.9375"	128
CLASSROOM	27'2.471" x 18'11.5818"	429
CONFERENCE	17'2 7/8" x 10'1.8125"	175
OFFICE	10'3.9949" x 4'10 1/4"	49
OFFICE / CLIENT	12'.9375" x 7'.4577"	85
STAIRS	21'6.9824" x 4'10 1/4"	105
STG.	7'11.0625" x 5'7.4375"	41
TEACHING KITCHEN	26'1.4936" x 8'11 1/2"	231
WORKSPACE 1	8'3 3/4" x 7'.4577"	59
WORKSPACE 2	12'6.0423" x 11'9.3198"	126
Total Area:		1429
SECOND FLOOR		
OFFICE	11'3 1/4" x 9'9 3/4"	111
OFFICE / MEETING	11'3 1/4" x 11'3.1939"	123
OPEN WORKSPACES	20'4.2559" x 13'9 3/4"	208
STAIRS	14'2.9267" x 4'10 1/4"	69
Total Area:		511
Total Addition & Renovation Area:		1939

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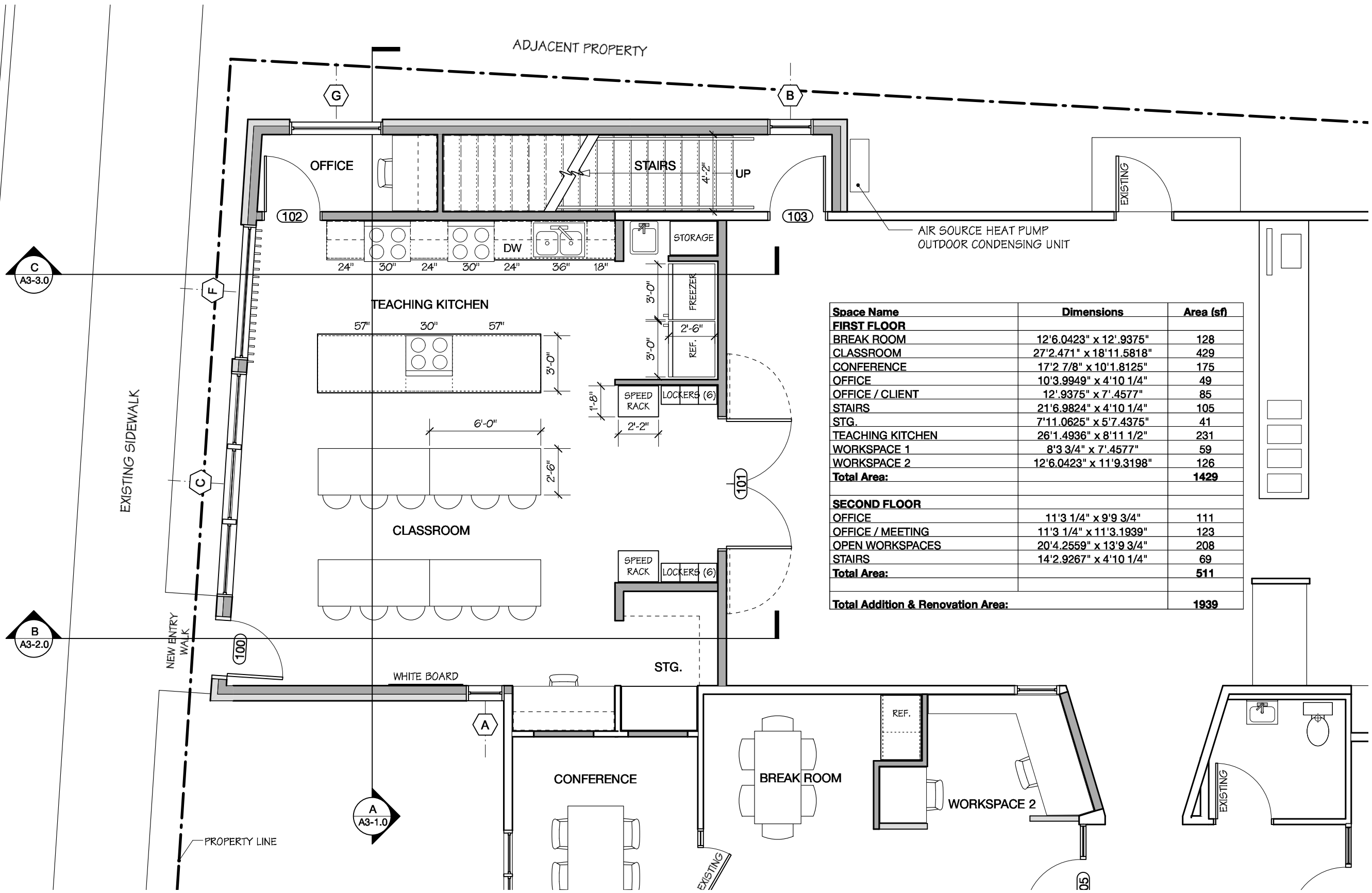
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NORTH WINOOSKI AVE.



FIRST FLOOR PLAN - PROPOSED

Scale: 3/16" = 1'-0"

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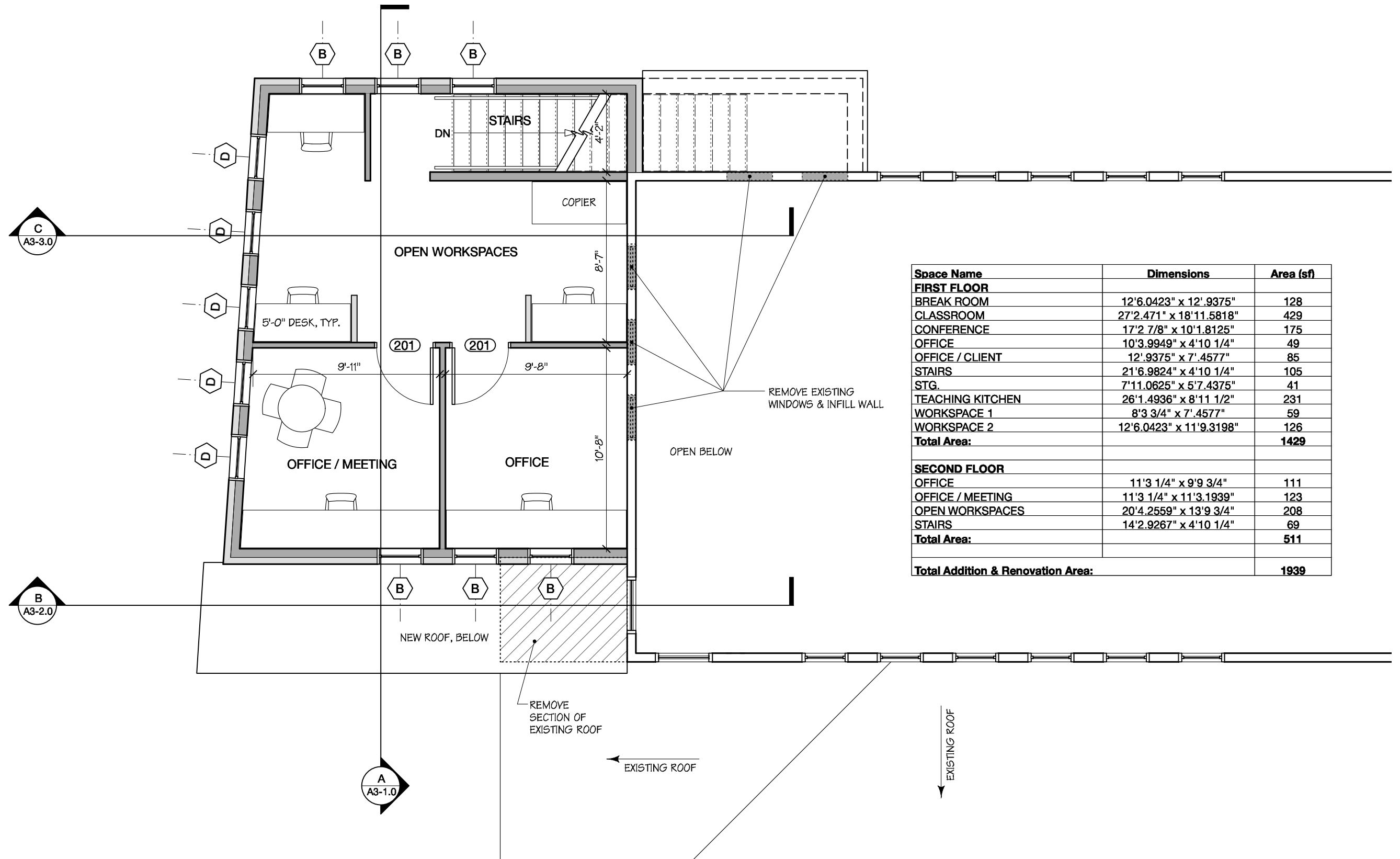
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SECOND FLOOR PLAN - PROPOSED

Scale: 3/16" = 1'-0"

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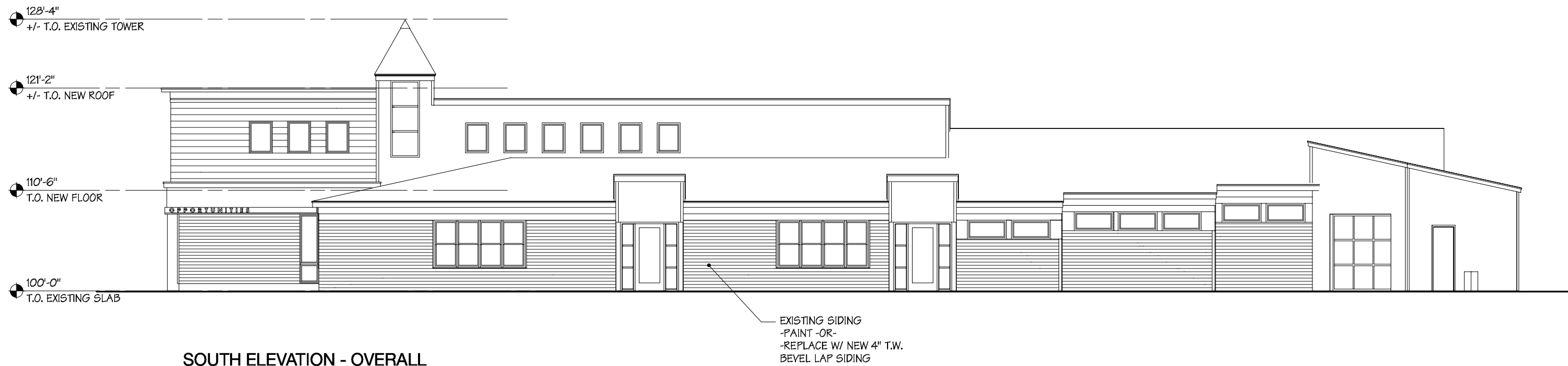
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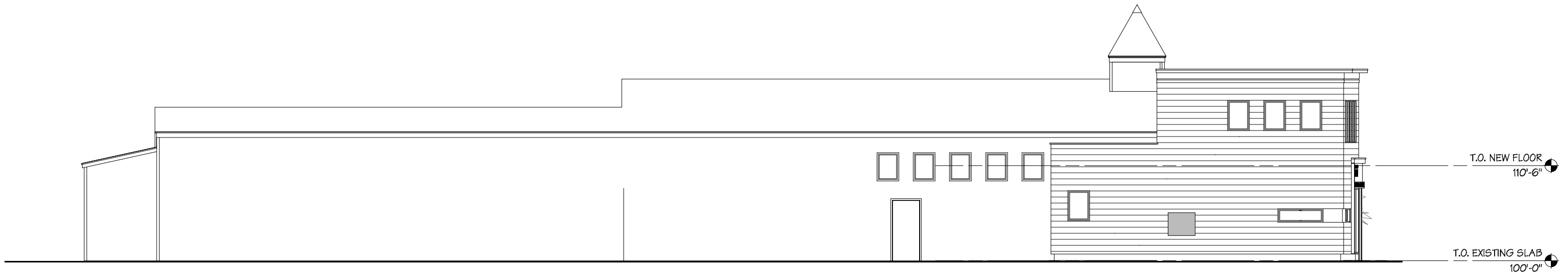
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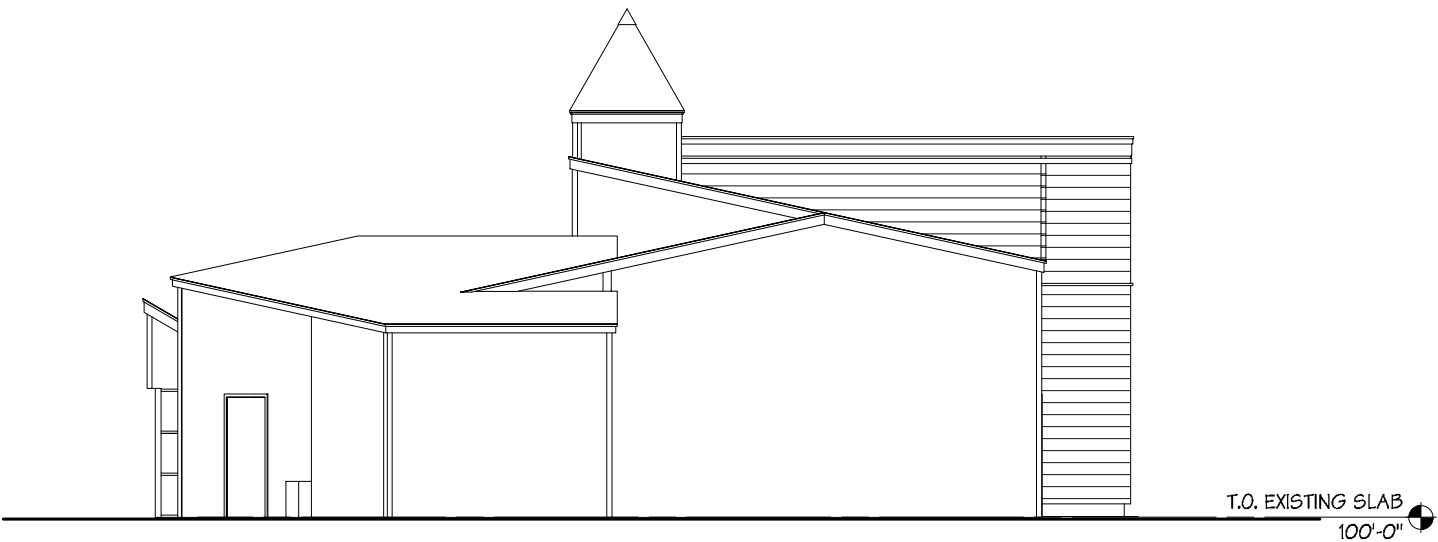
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NORTH ELEVATION - OVERALL

Scale: 3/32" = 1'-0"



EAST ELEVATION - OVERALL

Scale: 3/32" = 1'-0"

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P1