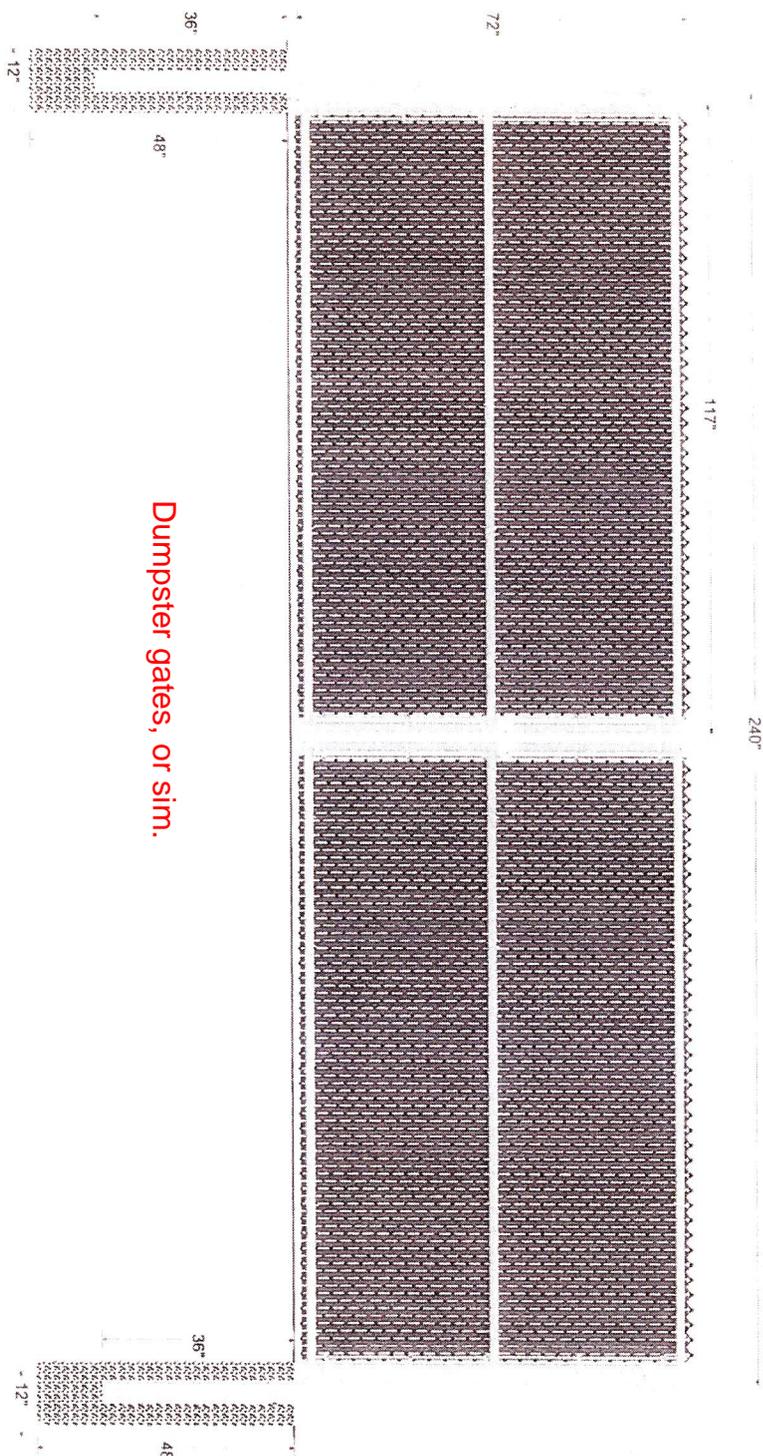


6 Fortress Privacy - Dumpster Enclosure

DUMPSTER ENCLUSRE- THREE SIDES



Dumpster gates, or sim.

- 72" tall Chainlink Fabric with Knuckle / Knuckle Selvage and 2" Mesh Size
- 108" tall, 4" diameter Gate Posts with 12" post footing diameter and 48" post footing depth
- The opening width of the Double Gate is 21'
- The gate frame is constructed with 1 5/8" pipe
- Gate is braced with 1 5/8" diameter Horizontal Brace
- Fence contains Vertical Slats - Color is GRAY
- Gate is hung with Bulldog Hinges. Gate is secured with a Strong Arm Latch
- The Wire Spacing is every 24" on Rails.

MIDDLEBURY FENCE COMPANY
"Call the Fence People"

MIDDLEBURY FENCE COMPANY
 1341 ETHAN ALLEN HIGHWAY
 NEW HAVEN, VERMONT 05472
 (802) 388-2225

72" X 21' Chainlink Double Drive Gate

Drawn:
 File:

HardiePlank Lap Siding Product Description

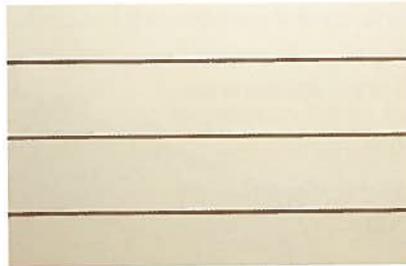
HardiePlank® lap siding is factory-primed fiber-cement lap siding available in a variety of styles and textures. Please see your local James Hardie® product dealer for product availability. HardiePlank boards come in 12-ft. lengths. Nominal widths from 5¼ in. to 12 in. create a range of exposures from 4 in. to 10¾ in.

HardiePlank lap siding is also available with ColorPlus Technology as one of James Hardie's prefinished products. ColorPlus Technology is a factory applied, oven-baked finish available on a variety of James Hardie siding and trim products. See your local dealer for details and availability of products, colors and accessories.

SIDING AT UPPER STORIES



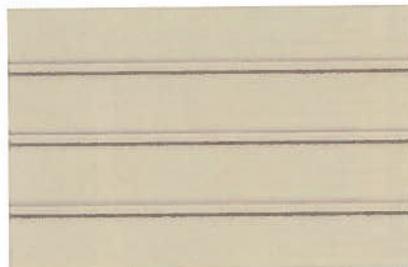
Cedarmill®



Smooth



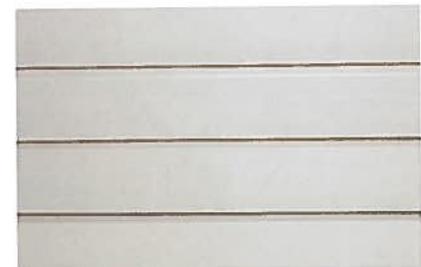
Beaded Cedarmill®



Beaded Smooth



Colonial Roughsawn



Colonial Smooth





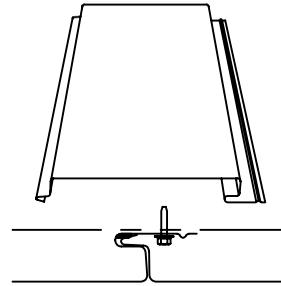
IW-10A, IW-11A, IW-12A, IW-13A, IW-14A, IW-15A

Concealed Fastener Panel • IW-Series Wall System

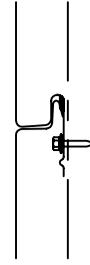
Description

IW Series offers six interesting configurations: IW-10A, IW-11A, IW-12A, IW-13A, IW-14A and IW-15. All IW panels share a common lock-joint design which makes them interchangeable on a project. The lock also permits the placement of concealed fasteners, and minimizes moisture intrusion.

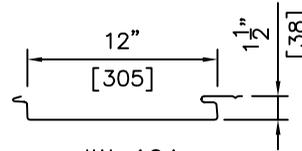
All IW Series wall panels can be installed in a variety of rainscreen applications to form a complete wall system. Systems may vary from an uninsulated screen wall to MetalWrap™ Series, an insulated composite backup panel system with Advanced Thermal and Moisture Protection (ATMP®). Contact your local CENTRIA sales person for more information regarding the performance of CENTRIA's rainscreens.



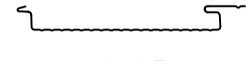
VERTICAL
JOINT DETAIL



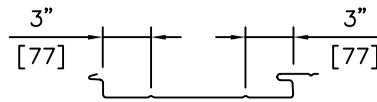
HORIZONTAL
JOINT DETAIL



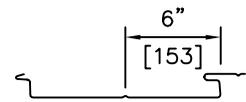
IW-10A



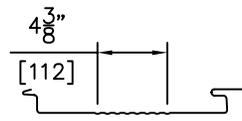
IW-13A



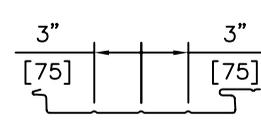
IW-11A



IW-14A



IW-12A



IW-15A

Notes

- A. For information on special applications, contact your local CENTRIA Sales Representative.
- B. All IW panels may be used on walls & soffits but not on roofs.
- C. Panel length tolerance is $\pm 1/4"$ [6mm].
- D. For protective coatings - see CENTRIA color chart.
- E. Oil canning within mill tolerances will not be cause for rejection.
- F. Panels must be ordered as "horizontal" when used in a horizontal application.
- G. Horizontal Panels must be erected from top to bottom.
- H. Maximum panel length for Zinc is 10' [3.048m].
- I. IW-10A, IW-11A, IW-12A, IW-13A, IW-14A and IW-15A must be installed in a vertical orientation if a zinc substrate is selected.

Panel Availability

METAL SIDING AT FIRST FLOOR

	GALVANIZED¹ (G90)	STAINLESS STEEL¹ (304)	ALUMINUM¹ (3003-H14)	ZINC¹ (PRE-WEATHERED)
PANEL THICKNESS	1 1/2" [38mm]	1 1/2" [38mm]	1 1/2" [38mm]	1 1/2" [38mm]
PANEL COVERAGE	12" [305mm]	12" [305mm]	12" [305mm]	12" [305mm]
SIDE LAP	Interlocking	Interlocking	Interlocking	Interlocking
END LAPS	(see standard detail) Shop notched and swaged 2" [51mm] for 22 [.76mm] and 20 [.91mm] gages only. ^{4,5,6} Flash or extrusion for all gages	Flash or extrusion for all thicknesses ^{5,6}	(see standard detail) Shop notched and swaged 2" [51mm] for 0.040" [1.02mm] only. ^{4,5,6} Flash or extrusion for all other thicknesses	Flash or extrusion for all thicknesses ^{5,6}
GAGES (STANDARD)	20 [.91mm], 22 [.76mm]	20 [.91mm], 22 [.76mm]	.040" [1.02mm], .050" [1.27mm]	1mm [.039"]
GAGES (OPTIONAL)	18 [1.19mm] ³	N/A	N/A	Contact CENTRIA
STANDARD LENGTH	5 [1.524m] - 30 ft. [9.144m]	5 [1.524m] - 30 ft. [9.144m]	5 [1.524m] - 20 ft. [6.096m]	5 [1.524m] - 10 ft. [3.048m]
STANDARD TEXTURE	Smooth	Smooth	Smooth	Smooth - Directional
OPTIONAL TEXTURE	Embossed ² (20 [.91mm] - 22 [.76mm] gage only)	Embossed ²	N/A	N/A
FINISHES	See CENTRIA Color Chart	#4 Brushed	See CENTRIA Color Chart	Jarden Zinc Color Chart

- 1. Alternate base material, panel lengths and gages may also be available. Contact CENTRIA.
- 2. Embossing is non-directional.
- 3. IW-12A and IW-13A are not available in 18 gage or stainless steel of any gage.
- 4. Shop swaged ends are not available for IW-12A, IW-14A, IW-15A.

- 5. Shop swaged ends are not available for 18 gage steel, .050 aluminum, any thickness Stainless Steel or Zinc panels.
- 6. MicroLine Extrusions can be used with horizontally installed panels only.



QUALITY FENCE & RAILING PRODUCTS
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OUR PRODUCTS

GALLERY

CADS AND SPECS

BROCHURES

ALUMI-NATION

ABOUT US

Ornamental Aluminum Estate Gates Enhancements Security Chain Link Cantilevers Railing Privacy Post and Rail Louvers Product Overview

Our Products

ELEGANCE VERSATILITY DURABILITY SECURITY PEACE OF MIND

COLORS



Seven Standard Colors

Black

Florida Bronze

FORTRESS

ADVANTAGES:

- Reminiscent of the Old Wooden Privacy Fence
- Clear Boundary Definition

BOARD ON BOARD · SHADOW BOX



STYLES



FORTRESS

BOARD ON BOARD

VBOX
E

3

LS

OST
NS



Privacy-Fortress



Screening around HVAC units on roof. (or sim.)
Screening around trash enclosure in parking lot. (or sim.)

SNYDER HOMES

New Project 1

Quote #: W68PYCA

A Proposal for Window and Door Products prepared for:

Job Site:
05401

Shipping Address:

R K MILES INC-MIDDLEBURY
88 Exchange St
Middlebury, VT 05753

Featuring products from:



WINDOWS



MANCHESTER, VT
618 depot st • po box 1125
manchester, vermont 05255
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MIDDLEBURY, VT
88 exchange st • po box 746
middlebury, vermont 05753
802 388 2721 • toll free 800 564 2721

WEST HATFIELD, MA
21 west st
west hatfield, massachusetts 01088
413 247 8300 • toll free 866 446 5820

WILLIAMSTOWN, MA
385 cole avenue
williamstown, massachusetts 01267
413 458 8121 • toll free 800 670 7433

rkiles.com

NICKI LANZA
R K MILES INC-MIDDLEBURY
PO BOX 746
MIDDLEBURY, VT 05753-0746
Phone: (802) 385-1147
Fax: (802) 382-8600
Email: lanzan@rkiles.com

This report was generated on 6/27/2016 1:55:24 PM using the Marvin Order Management System, version 0002.09.00 (Current). Price in USD. Unit availability and price are subject to change. Dealer terms and conditions may apply.

Global Specs

The following product and option choices were designated as part of this project's Global Spec. Global Specs can be over-ridden on a line item basis. Exceptions to the specification are outlined in Line Item Quotes. Please proof all units thoroughly to ensure accuracy.

UNIT SUMMARY

The following is a schedule of the windows and doors for this project. For additional unit details, please see Line Item Quotes.

Additional charges, tax or Terms and Conditions may apply. Detail pricing is per unit.

NUMBER OF LINES: 1

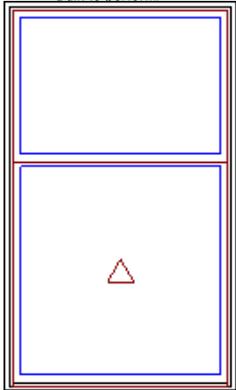
TOTAL UNIT QTY: 1

LINE	MARK UNIT	BRAND	ITEM	QTY
1		Integrity	All Ultrex Single Hung CN 3050 RO 36" X 60" Entered as CN 3050	1

LINE ITEM QUOTES

The following is a schedule of the windows and doors for this project. For additional unit details, please see Line Item Quotes. Additional charges, tax or Terms and Conditions may apply. Detail pricing is per unit.

Line #1	Mark Unit:			
Qty: 1				



As Viewed From The Exterior

Stone White Exterior
 Stone White Interior
 Integrity Single Hung
 All Ultrex
 CN 3050
 Rough Opening 36" X 60"
 Cottage 2.0:5.0
 Top Sash
 G.S. 31 11/16" X 21 61/64"
 IG - 1 Lite
 Low E2 w/Argon
 Bottom Sash
 G.S. 31 11/16" X 32 59/64"
 IG - 1 Lite
 Low E2 w/Argon
 2 White Sash Lock
 White Sash Lift
 Exterior Half Screen
 Stone White Surround
 Charcoal Fiberglass Mesh
 2" Jamb
 Nailing Fin

Entered As: CN

CN 3050

FS 35 1/2" X 59 1/2"

RO 36" X 60"

Egress Information

No Egress Information available.

Performance Information

U-Factor: 0.3

Solar Heat Gain Coefficient: 0.33

Visible Light Transmittance: 0.57

Condensation Resistance: 57

CPD Number: MAR-N-361-00150-00001

ENERGY STAR: NC

Performance Grade

Licensee #871

AAMA/WDMA/CSA/101/ I.S.2/A440-08

LC-PG30 901X1816 mm (35.5X71.5 in)

LC-PG30 DP +30/-30

FL 12374

Terms and Conditions

ESTIMATE VALID FOR 30 DAYS.

VERIFICATION OF ALL QUANTITIES, SPECIFICATIONS AND SIZING AS THE RESPONSIBILITY OF THE OWNER, BUILDER OR ARCHITECT.

SPECIAL ORDERS ARE NON RETURNABLE AND CAN NOT BE CHANGED ONCE THE ORDER HAS BEEN PLACED.

ORDERS WILL NOT BE PLACED UNTIL A SIGNED COPY OF THE ESTIMATE IS RETURNED TO r. k. MILES INC.

ALL SALES ARE FINAL AND CHANGES OR CANCELLATIONS ARE NOT ABLE TO BE MADE AFTER THE ORDER IS PLACED.

THANK YOU FOR THE OPPORTUNITY AND WE APPRECIATE YOUR BUISNESS.

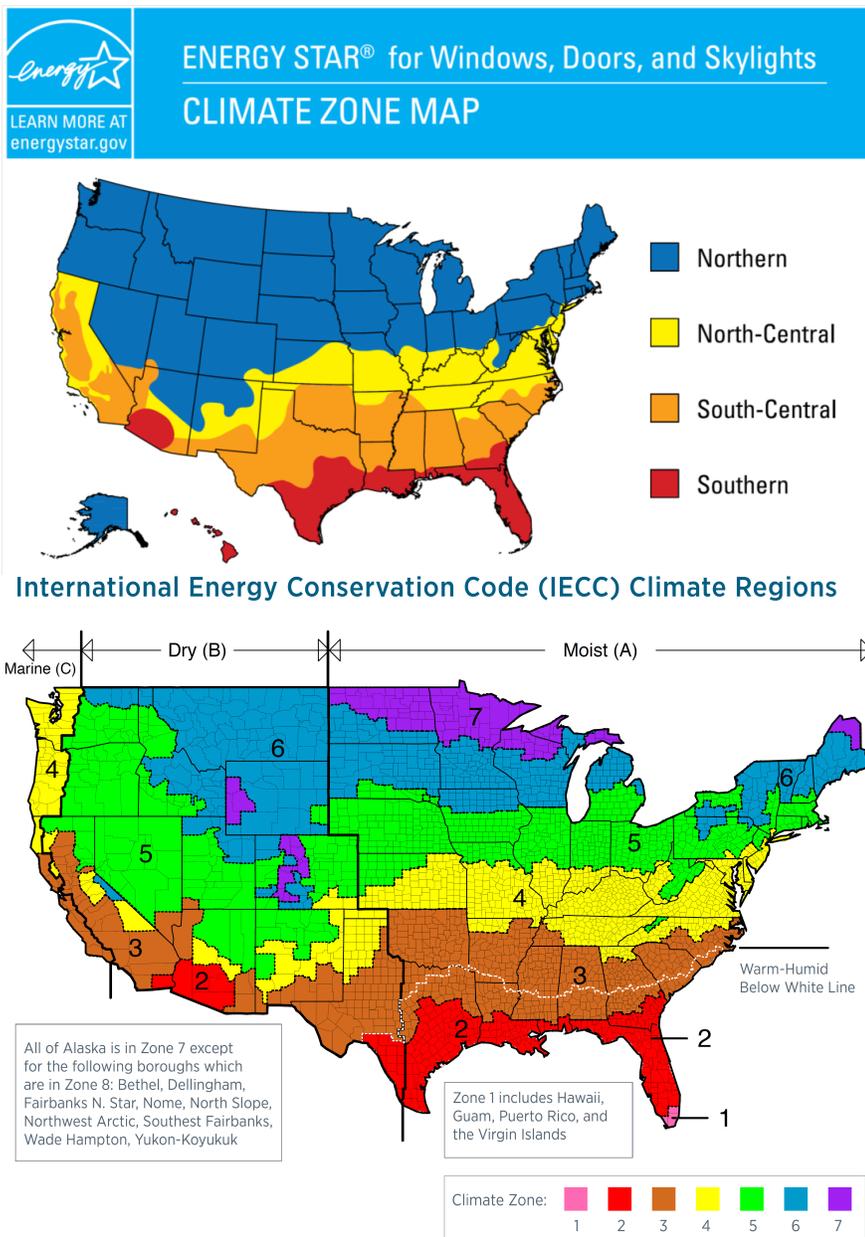
Product and Performance Information

NFRC energy ratings and values may vary depending on the exact configuration of glass thickness used on the unit. This data may change over time due to ongoing product changes or updated test results or requirements.

The National Fenestration Rating Council (NFRC) has developed and operates a uniform national rating system for the energy performance of fenestration products, including windows and doors. For additional information regarding this rating system, see www.nfrc.org/WindowRatings.

NFRC energy values and ratings may change over time due to ongoing product changes, updated test results or requirements.

Review the map below to determine if your units meet ENERGY STAR for your location.

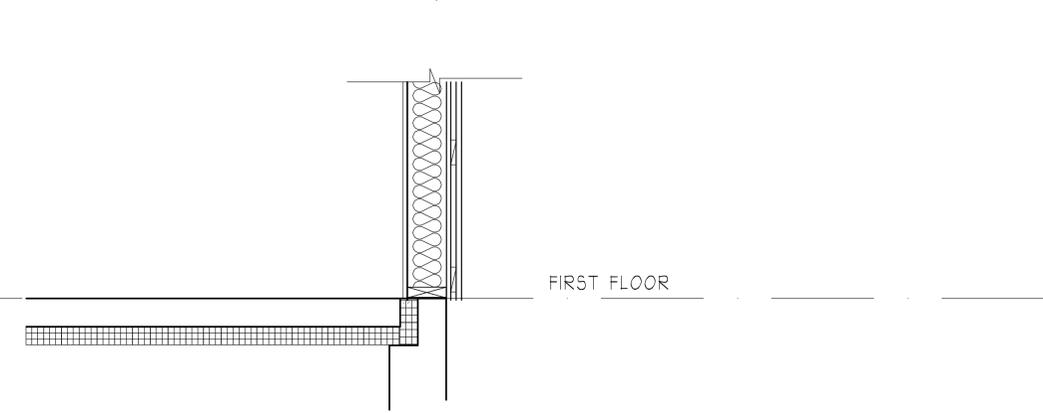
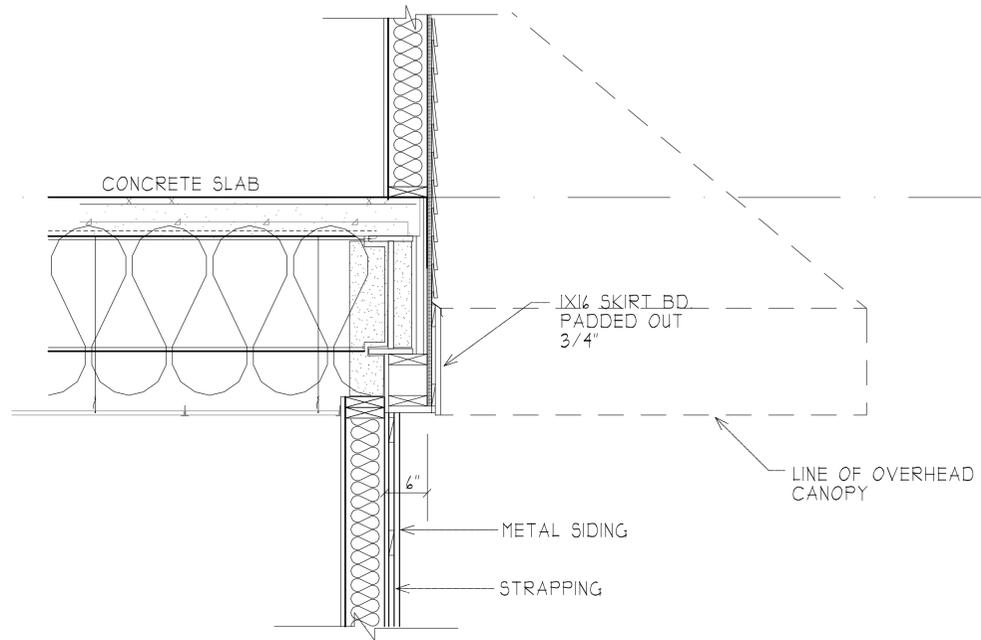
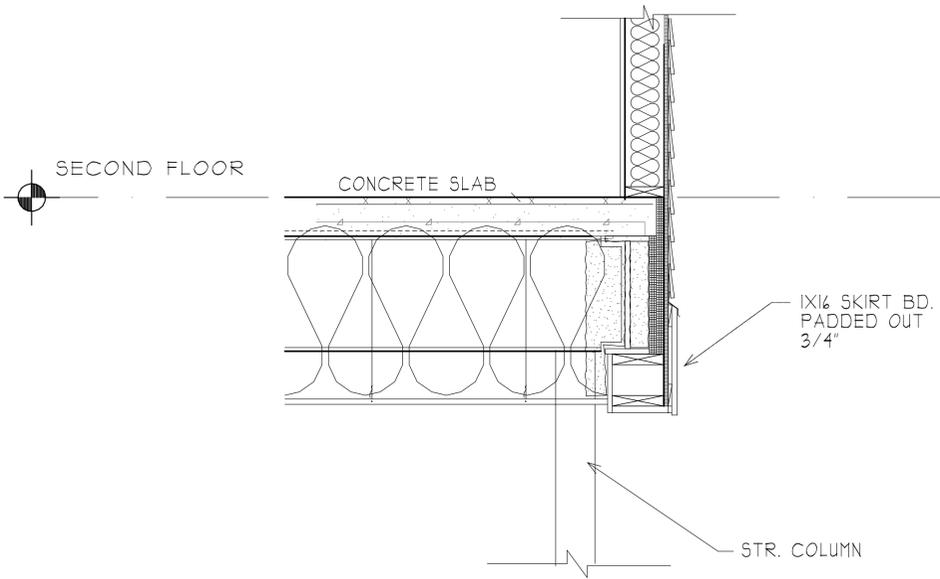
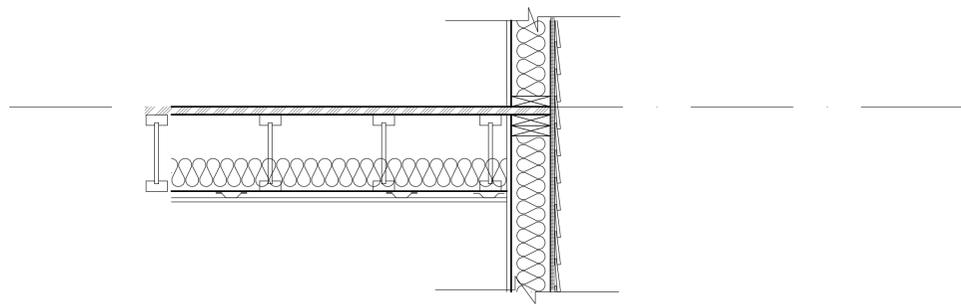
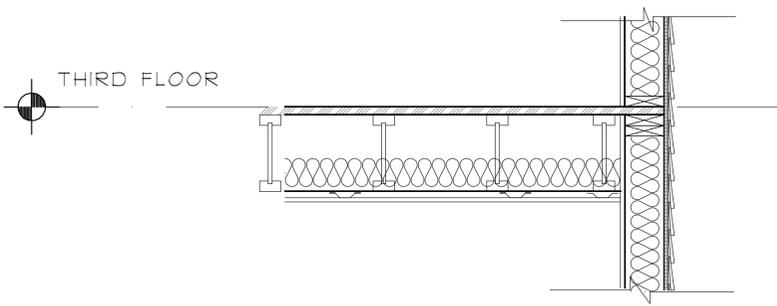
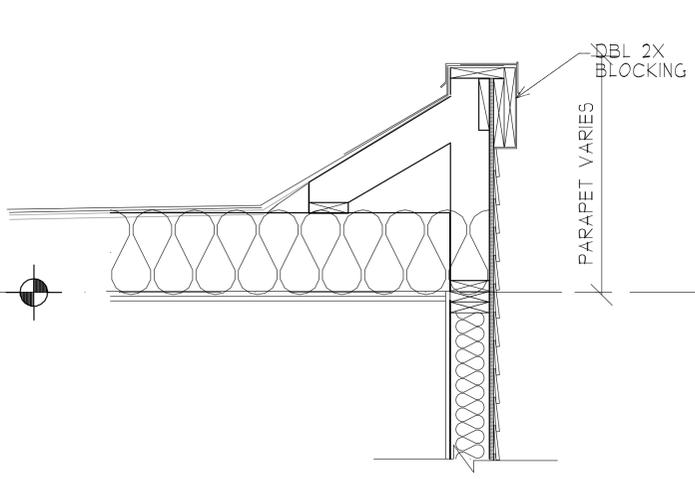
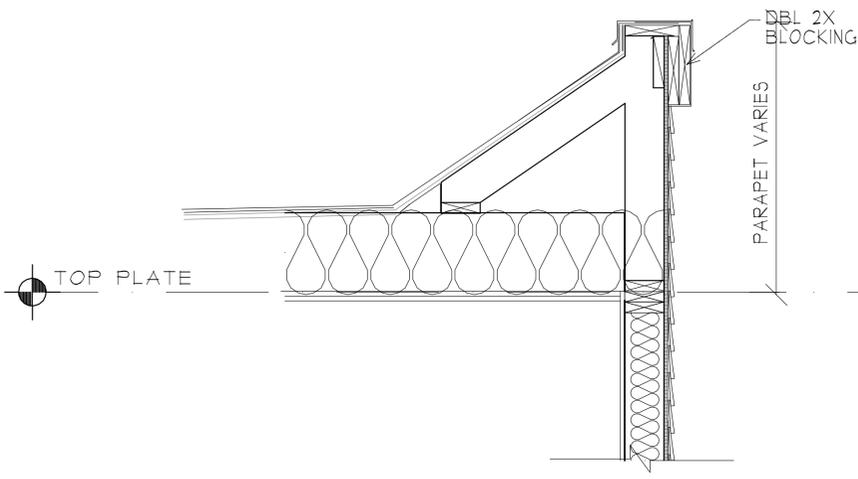


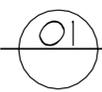
PURCHASE APPROVAL/SIGN OFF

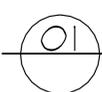
I have reviewed all line item quotes in detail and agree that the product specifications and pricing are accurate, and I approve the project for order. I acknowledge that additional charges, tax or Terms and Conditions may apply.

Seller: _____

Buyer: _____




 PINE & FLYNN
 SECTION @ PRK'G AREA
 1" = 1'-0"

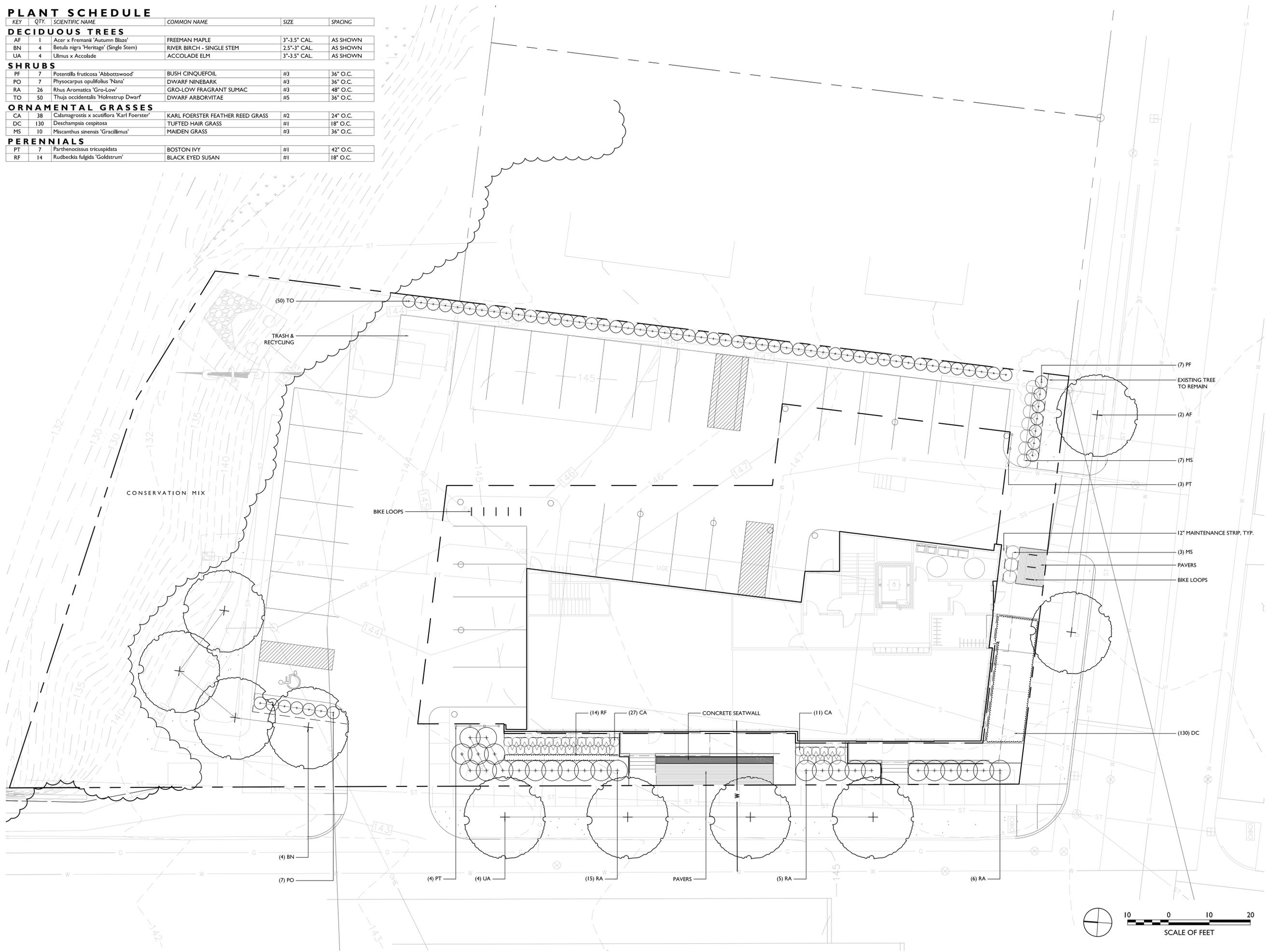

 PINE & FLYNN
 SECTION @ COMMERCIAL AREA
 1" = 1'-0"



LINCOLN BROWN ILLUSTRATION

PLANT SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING
DECIDUOUS TREES					
AF	1	Acer x Freemanii 'Autumn Blaze'	FREEMAN MAPLE	3"-3.5" CAL.	AS SHOWN
BN	4	Betula nigra 'Heritage' (Single Stem)	RIVER BIRCH - SINGLE STEM	2.5"-3" CAL.	AS SHOWN
UA	4	Ulmus x Accolade	ACCOLADE ELM	3"-3.5" CAL.	AS SHOWN
SHRUBS					
PF	7	Potentilla fruticosa 'Abbottswood'	BUSH CINQUEFOIL	#3	36" O.C.
PO	7	Physocarpus opulifolius 'Nana'	DWARF NINEBARK	#3	36" O.C.
RA	26	Rhus Aromatica 'Gro-Low'	GRO-LOW FRAGRANT SUMAC	#3	48" O.C.
TO	50	Thuja occidentalis 'Holmstrup Dwarf'	DWARF ARBORVITAE	#5	36" O.C.
ORNAMENTAL GRASSES					
CA	38	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER FEATHER REED GRASS	#2	24" O.C.
DC	130	Deschampsia cespitosa	TUFTED HAIR GRASS	#1	18" O.C.
MS	10	Miscanthus sinensis 'Gracillimus'	MAIDEN GRASS	#3	36" O.C.
PERENNIALS					
PT	7	Parthenocissus tricuspidata	BOSTON IVY	#1	42" O.C.
RF	14	Rudbeckia fulgida 'Goldstrum'	BLACK EYED SUSAN	#1	18" O.C.



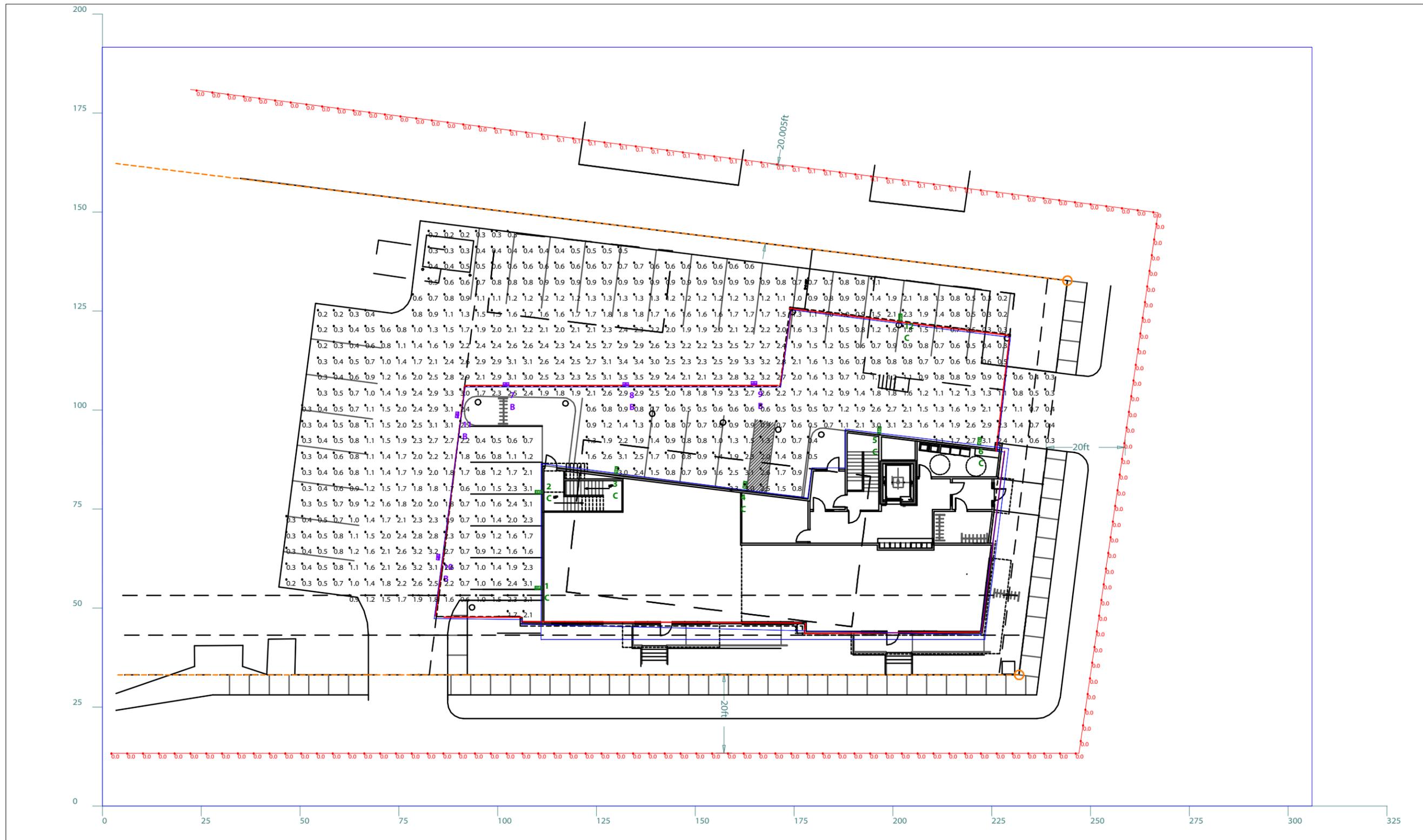
DRAFT
NOT FOR CONSTRUCTION

PINE AND FLYNN

PLANTING PLAN

REVISIONS





Scale: 1 inch= 25 Ft.



Prepared For:
Holbrook Associated Warehouse
PO Box 401
Rockland, MA 02370

Job Name:
Pine and Flynn
Burlington, VT
Lighting Layout
Version A

Scale: as noted

Date: 6/28/2016

CASE #: 00048313

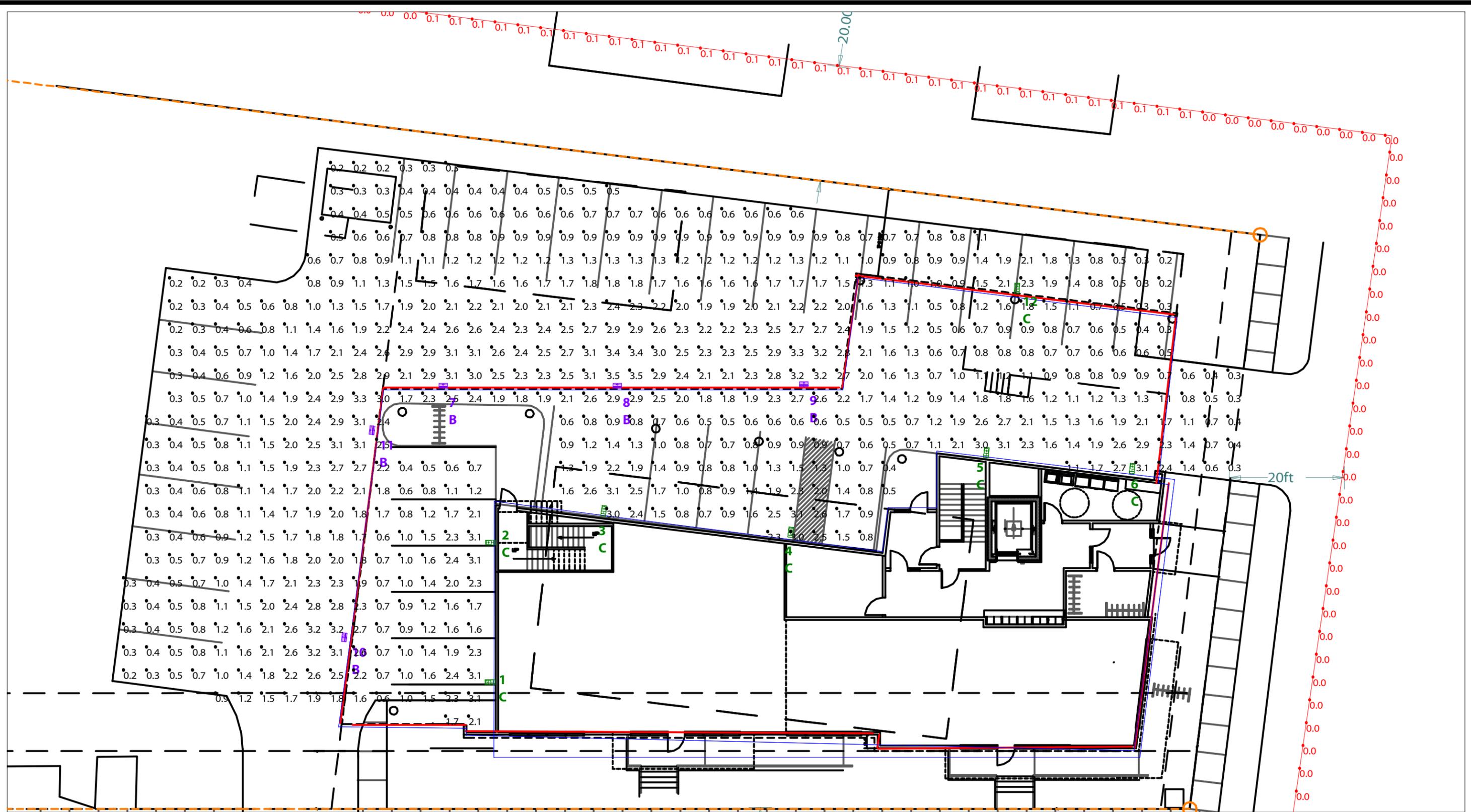
Filename: Pine and Flynn Layout 00048313 A.AGI

Drawn By: A. Murphy

Filename: Z:\Job Files\Holbrook Associated\Green Mountain Electric\Colchester 110256\Pine & Flynn\Working Files\ REVISION\Pine and Flynn Layout 00048313 A.AGI

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Scale: 1 inch= 16 Ft.



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 Holbrook Associated Warehouse
 PO Box 401
 Rockland, MA 02370

Job Name:
 Pine and Flynn
 Burlington, VT
 Lighting Layout
 Version A

Scale: as noted
 Date: 6/28/2016 CASE # : 00048313
 Filename: Pine and Flynn Layout 00048313 A.AGI
 Drawn By: A. Murphy

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Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description	PtSpcLr	PtSpcTb	Meter Type
CalcPts - 20' From Prop Line	Illuminance	Fc	0.02	0.1	0.0	N.A.	N.A.	Readings taken at 0'-0" AFG	4	N.A.	Horizontal
CalcPts - Parking Lot	Illuminance	Fc	1.42	3.5	0.2	7.10	17.50	Readings taken at 0'-0" AFG	4	4	Horizontal

Luminaire Schedule

Symbol	Qty	Tag	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Description	Lum. Watts	Arr. Watts	Total Watts	Filename
	5	B	SLIM37N	SINGLE	2587	2587	1.000	SLIM37N	37.6	37.6	188	SLIM37N - Neutral - ITL76691.IES
	7	C	WPLED13N	SINGLE	1063	1063	1.000	WPLED13N	14.8	14.8	103.6	WPLED13N - Neutral - ITL82639.IE

Expanded Luminaire Location Summary

LumNo	Label	Tag	X	Y	MTG HT	Orient	Tilt
1	WPLED13N	C	109.946	55.098	12.5	180	0
2	WPLED13N	C	110.017	79.315	12.5	180	0
3	WPLED13N	C	130.032	85.123	12.5	82.08	0
4	WPLED13N	C	162.522	81.396	12.5	82.971	0
5	WPLED13N	C	196.521	95.193	12.5	84.808	0
6	WPLED13N	C	221.877	92.459	12.5	84.601	0
7	SLIM37N	B	102.064	106.441	20	90	0
8	SLIM37N	B	132.314	106.441	20	90	0
9	SLIM37N	B	164.778	106.719	20	90	0
10	SLIM37N	B	84.937	62.885	20	175.007	0
11	SLIM37N	B	89.753	98.792	20	173.106	0
12	WPLED13N	C	201.837	123.693	15	86.576	0

Total Quantity: 12



WPLED13N



SLIM37N

NOTES:

* The light loss factor (LLF) is a product of many variables, only lamp lumen depreciation (LLD) has been applied to the calculated results unless otherwise noted. The LLD is the result (quotient) of mean lumens / initial lumens per lamp manufacturers' specifications.

* Illumination values shown (in footcandles) are the predicted results for planes of calculation either horizontal, vertical or inclined as designated in the calculation summary. Meter orientation is normal to the plane of calculation.

* The calculated results of this lighting simulation represent an anticipated prediction of system performance. Actual measured results may vary from the anticipated performance and are subject to means and methods which are beyond the control of RAB Lighting Inc.

* Mounting height determination is job site specific, our lighting simulations assume a mounting height (insertion point of the luminaire symbol) to be taken at the top of the symbol for ceiling mounted luminaires and at the bottom of the symbol for all other luminaire mounting configurations.

* RAB Lighting Inc. luminaire and product designs are protected under U.S. and International intellectual property laws. Patents issued or pending apply.



Grayscale Rendering : Back of Lot



Prepared For:
Holbrook Associated Warehouse
PO Box 401
Rockland, MA 02370

Job Name:
Pine and Flynn
Burlington, VT
Lighting Layout
Version A

Scale: as noted

Date: 6/28/2016

CASE # : 00048313

Filename: Pine and Flynn Layout 00048313 A.AGI

Drawn By: A. Murphy

Filename: Z:\Job Files\Holbrook Associated\Green Mountain Electric\Colchester 110256\Pine & Flynn\Working Files\ REVISION\Pine and Flynn Layout 00048313 A.AGI

The Lighting Analysis, ezLayout, Energy Analysis and/or Visual Simulation ("Lighting Design") provided by the RAB Lighting Inc. ("RAB") represent an anticipated prediction of lighting system performance based upon design parameters and information supplied by others. These design parameters and information provided by others have not been field verified by RAB and therefore actual measured results may vary from the actual field conditions. RAB recommends that design parameters and other information be field verified to reduce variation.

RAB neither warranties, either implied or stated with regard to actual measured light levels or energy consumption levels as compared to those illustrated by the Lighting Design. RAB neither warranties, either implied or stated, nor represents the appropriateness, completeness or suitability of the Lighting Design intent as compliant with any applicable regulatory code requirements with the exception of those specifically stated on drawings created and submitted by RAB. The Lighting design is issued, in whole or in part, as advisory documents for informational purposes and is not intended for construction nor as being part of a project's construction documentation package.



37, 57 and 62 Watt SLIM Wallpacks are designed to cover the footprint of most traditional wallpacks. They are suitable for mounting heights from 20' to 30', and replace HID Wattages from 200W MH to 320W MH. These ultra-high efficiency fixtures are available in cutoff or full cutoff models.

Color: Bronze

Weight: 7.5 lbs

Project:
Pine and Flynn

Type:
B

Prepared By:
A. Murphy

Date:
06/28/16

Driver Info

Type:	Constant Current
120V:	0.31A
208V:	0.19A
240V:	0.16A
277V:	0.14A
Input Watts:	38W
Efficiency:	98%

LED Info

Watts:	37W
Color Temp:	4000K
Color Accuracy:	82 CRI
L70 Lifespan:	100000
Lumens:	2,587
Efficacy:	69 LPW

Technical Specifications

Listings

UL Listing:

Suitable for wet locations. Wall Mount only.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P00001722

Construction

Footprint:

Designed to replace RAB HID WP1 wallpacks, both in size and footprint template, so upgrading to LED is easy and seamless.

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures

Thermal Management:

Superior thermal management with internal Air-Flow fins.

Housing:

Precision die-cast aluminum housing and door frame.

Mounting:

Die-cast back box with four (4) conduit entry points and knockout pattern for junction box or direct wall mounting. Hinged housing and bubble level for easy installation.

Cutoff:

Cutoff (7.5°)

Recommended Mounting Height:

Up to 20 ft.

Lens:

Microprismatic diffusion glass lens reduces glare and has smooth and even light distribution.

Reflector:

Specular thermoplastic.

Gaskets:

The unique design of the tight-lock gasket ensures no water or environmental elements will ever get inside the SLIM.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free, and RoHS compliant.

LED Characteristics

LED:

Long-life, high-efficiency, micro-power, surface mount LEDs; binned and mixed for uniform light output and color.

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Correlated Color Temp. (Nominal CCT):

4000K

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Electrical

Driver:

Constant Current, 100-277V. 50/60Hz, 100-277VAC 0.6A, 4kV Surge Protection, 700mA, Power Factor 99.4%.

THD:

7.5% at 120V, 7.6% at 277V

Other

HID Replacement Range:

The SLIM37 can be used to replace 200W MH based on delivered lumens.

Accessories:

Available accessories include polycarbonate and wire guard. Click to see all accessories.

Technical Specifications (continued)

Other

California Title 24:

See SLIM37/BL for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Patents:

The design of the SLIM™ is protected by patents pending in US, Canada, China, Taiwan and Mexico.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

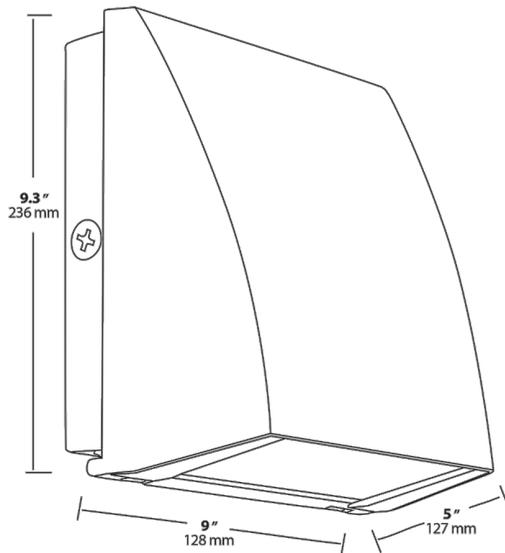
Suitable in accordance with FAR Subpart 25.4.

Optical

BUG Rating:

B1 U1 G1

Dimensions



Features

- Covers footprint of most traditional wallpacks
- Easy installation with hinged access, bubble level and multiple conduit entries
- Tight-lock gasket keeps elements out
- 100,000-hour LED lifespan
- 5-Year warranty

Ordering Matrix

Family	Cutoff	Watts	Color Temp	Finish	Photocell	Bi-Level
SLIM	= Standard C = Cutoff FC = Full Cutoff	62 = 62W 57 = 57W 37 = 37W	= 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	= Bronze W = White	= No Photocell /PC = 120V Button /PC2 = 277V Button /PCS = 120V Swivel /PCS2 = 277V Swivel	= No Bi-Level /BL = Bi-Level



LED 10W & 13 Wallpacks. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 3.3 lbs

Project:
Pine and Flynn

Type:
C

Prepared By:
A. Murphy

Date:
06/28/16

Driver Info

Type: Constant Current
120V: 0.13A
208V: 0.08A
240V: 0.07A
277V: 0.06A
Input Watts: 15W
Efficiency: 87%

LED Info

Watts: 13W
Color Temp: 4000K
Color Accuracy: 83 CRI
L70 Lifespan: 100000
Lumens: 673
Efficacy: 45 LPW

Technical Specifications

Listings

UL Listing:

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

Optical

Lumen Maintenance:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Fixture Efficacy:

44.6 Lumens per Watt

Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

BUG Rating:

B1 U0 G0

Construction

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Ambient Temperature:

Suitable for use in 50°C (122°F) ambient temperatures.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

RAB LEDs are Mercury and UV free.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Gaskets:

High Temperature Silicone.

Electrical

Driver:

Multi-chip 13W high output long life LED Driver Constant Current, Class 2 100V - 277V, 50/60 Hz.

Surge Protection:

4KV

LED Characteristics

Color Temperature (Nominal CCT):

4000K

Color Accuracy:

86 CRI

Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Other

Patents:

The design of the LPACK is protected by U.S. Pat. D604,004 and patents pending in Canada, China and Taiwan.

California Title 24:

See WPLED13/PC for a 2013 California Title 24 compliant model.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Equivalency:

The WPLED13 is Equivalent in delivered lumens to a 100W Metal Halide Wallpack.

HID Replacement Range:

The WPLED13 can be used to replace 70-150W Metal Halide Wallpacks based on delivered lumens.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Technical Specifications (continued)

Other

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

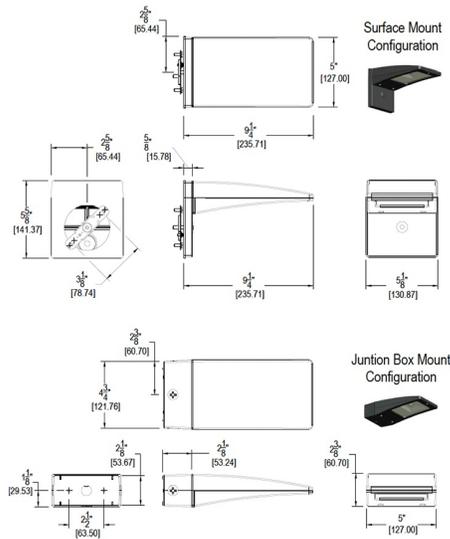
Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Dimensions

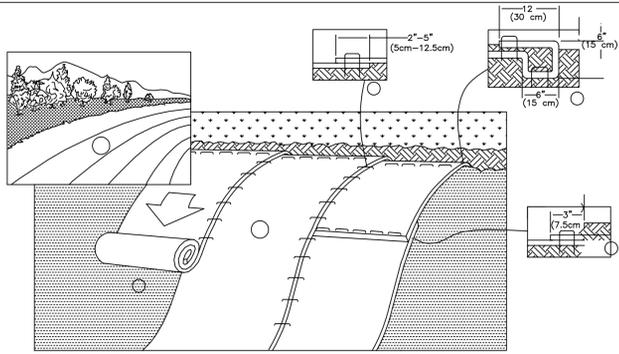


Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 5-year warranty

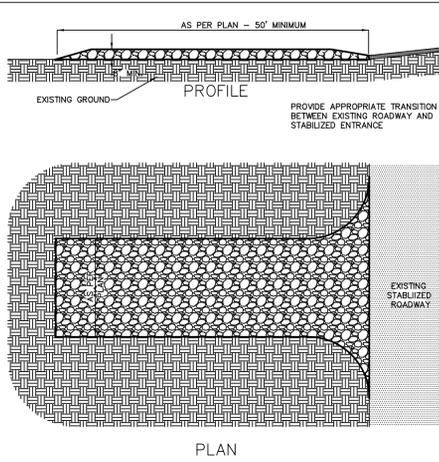
Ordering Matrix

Family	Watts	Color Temp	Sensor	Surface Plate	Surface Place	Finish	Photocell
WPLED	10 = 10W 13 = 13W	= 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	= No Sensor MS = Mini Sensor	= No Surface Plate	S = Surface Plate	= Bronze W = White	= No Photocell /PC = 120V Button /PCS = 120V Swivel /PC2 = 277V Button



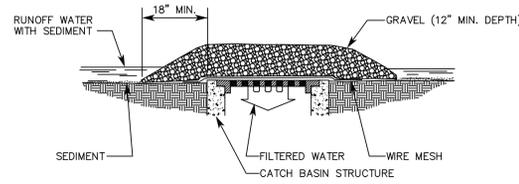
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCT (RECIP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF SLOPE BY ANCHORING THE RECIP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECIP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR RECIP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) OF RECIP'S APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECIP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECIP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF RECIP'S.
 - ROLL THE RECIP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECIP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECIP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECIP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECIP'S TYPE.
 - CONSECUTIVE RECIP'S DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ENTIRE RECIP'S EDITH.
- NOTE:
IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECIP'S.

EROSION CONTROL MATTING - SLOPE INSTALLATION
N.T.S.



- NOTES:
- STONE SHALL BE 1.5 TO 4 INCHES WITH A MINIMUM THICKNESS OF 8 INCHES.
 - LENGTH, WIDTH AND RETURN RADII SHALL BE AS SHOWN ON THE APPLICABLE CONSTRUCTION STABILIZATION PLAN.
 - MAINTENANCE OF ENTRANCE WILL BE NECESSARY TO PREVENT TRACKING OF SEDIMENT OFF SITE. THIS MAY INCLUDE ADDING STONE, AND/OR REMOVING AND REPLACING STONE.
 - THE EMPLOYMENT OF APPROVED ALTERNATIVE METHODS OF REMOVING SEDIMENT FROM VEHICLE PRIOR TO EXITING SITE IS ENCOURAGED TO MINIMIZE REQUIRED MAINTENANCE OF STABILIZED ENTRANCE.
 - CONSTRUCT STABILIZED APROX AROUND BUILDING AS SHOWN ON THE PLAN, AND WITH THE PROFILE SHOWN ABOVE.

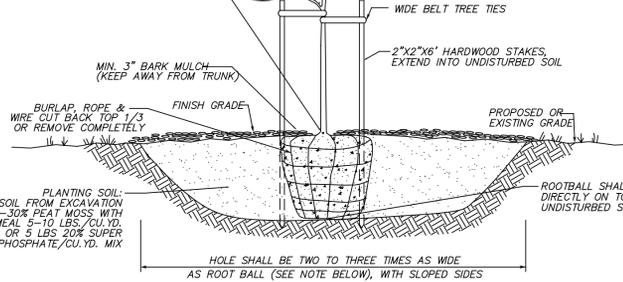
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



- A WIRE MESH SHALL BE PLACED OVER THE DROP INLET OR CURB OPENING SO THAT THE ENTIRE OPENING AND A MINIMUM OF 12 INCHES AROUND THE OPENING ARE COVERED BY THE MESH. THE MESH MAY BE ORDINARY HARDWARE CLOTH OR WIRE MESH WITH OPENINGS UP TO 1/4 INCH.
- THE WIRE MESH SHALL BE COVERED WITH CLEAN COARSE AGGREGATE SUCH AS CRUSHED STONE FOR SEWERS (ASTM STONE SIZE NO. 67). SEE SPECIFICATIONS.
- THE COARSE AGGREGATE SHALL EXTEND AT LEAST 18 INCHES BEYOND ALL SIDES OF THE CATCH BASIN/DRAIN OPENING.
- THIS SEDIMENTATION CONTROL SHALL BE UTILIZED AT ALL CATCH BASINS THAT WILL RECEIVE RUNOFF FROM DISTURBED AREAS.
- GEOTEXTILE BAG PRODUCTS DESIGNED FOR EROSION CONTROL AT CATCHBASINS ARE ACCEPTABLE ALTERNATIVES PROVIDED THEY ARE INSTALLED AND MAINTAINED PER MANUFACTURERS RECOMMENDATIONS.
- SILT FENCING PROPERLY INSTALLED AND MAINTAIN AROUND CATCH BASINS IN GRASS AREAS IS AN ACCEPTABLE ALTERNATIVE.

SEDIMENTATION CONTROL
AT CATCH BASIN
N.T.S.

TRUNK FLARE JUNCTION: PLANT AT EXISTING GRADE IN WELL DRAINED SOILS; UP TO 4" ABOVE EXISTING GRADE IN POORLY DRAINED SOILS



DECIDUOUS TREE PLANTING DETAIL
N.T.S.

- NOTES:
- PLANTING HOLE SHALL BE 3 TIMES ROOT BALL DIAMETER IN HIGHLY COMPACTED SOIL; 2 TIMES ROOT BALL DIAMETER MINIMUM IN ALL OTHERS.
 - STAKES AND GUY WIRE PLACEMENT SHALL NOT INTERFERE WITH PEDESTRIAN TRAFFIC.

Landscaping Notes:

- Landscaper/architect shall be notified to inspect proposed locations of plant material and condition of plant materials when delivered to site prior to installation.
- All plant material is to conform to the requirements of ANSI Z60.1 "American Standard for Nursery Stock" for quality, size, genus, species and variety shown on the planting plan.
- Landscaper/contractor shall be responsible for identifying locations of underground utilities prior to excavation for planting.

EROSION PREVENTION AND SEDIMENT CONTROL
STABILIZATION NOTES:

- MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS AT 2 TONS PER ACRE. MULCH SHALL CONSIST OF AIR-DRIED HAY OR STRAW FREE OF SEEDS AND COARSE MATERIALS.
 - TOPSOIL PILES SHALL BE MULCHED AND RINGED WITH SILT FENCE.
 - DISTURBED SOILS TO BE STABILIZED AS FOLLOWS:
- | | | | |
|---------------|----------|--------|-------------------------------------|
| CHANNEL SLOPE | 1% TO 5% | LINING | NORTH AMERICAN GREEN S150 |
| | > 5% | | STONE RIP RAP |
| SIDE SLOPES | < 3:1 | LINING | MULCH |
| | >= 3:1 | | NORTH AMERICAN GREEN S150 OR EQUAL |
| | > 2:1 | | NORTH AMERICAN GREEN SC250 OR EQUAL |
- LIME MAY BE APPLIED TO ACHIEVE SOIL PH OF 6.5 FOR AREAS TO BE SEEDED.
 - APPLY COMMERCIAL FERTILIZER AT 1.0 LBS/1,000SQ. FT OF N20, P5 AND K20, IF REQUIRED.
 - LIME AND FERTILIZER SHALL BE MIXED THOROUGHLY INTO THE SEEDBED DURING SOIL PREPARATION.
 - GRASSED CHANNELS SHALL HAVE A MIN. OF 4" OF TOPSOIL PRIOR TO SEEDING.
 - DISTURBED SOILS SHALL BE SEEDED ACCORDING TO THE FOLLOWING TABLE:

SEEDING RATES FOR TEMPORARY STABILIZATION:			
APRIL - SEPT.: 15: RYEGRASS (ANNUAL OR PERENNIAL: 20 LBS/ACRE)			
SEPT. - 15 - APRIL: 15: WINTER RYE (120 LBS/ACRE)			
SEEDING RATES FOR FINAL STABILIZATION:			
CHOOSE FROM:	VARIETY	LBS./ACRE	LBS./1000 SQ. FT.
BIRDSFOOT TREFOIL	EMPIRE/PARDEE	5	0.1
OR			
COMMON WHITE CLOVER	COMMON	8	0.2
PLUS			
TALL FESCUE	KY-31/REBEL	10	0.25
PLUS			
REDTOP	COMMON	2	0.05
OR			
RYEGRASS (PERENNIAL)	PENNFINE/LINN	5	0.1
* - MIX 2.5 LBS. EACH OF EMPIRE AND PARDEE OR 2.5 LBS. OR BIRDSFOOT AND 2.5 LBS. WHITE CLOVER PER ACRE.			

LIMIT-OF-DISTURBANCE CORDON
CONSTRUCTION SPECIFICATIONS

- LIMIT OF DISTURBANCE CORDON SHALL BE 3-FOOT HIGH ORANGE "CONSTRUCTION" SAFETY FENCE OR APPROVED EQUIVALENT, AND SHALL BE LOCATED AS SHOWN ON THE APPLICABLE PHASE PLAN. INSTALLATION OF PERMANENT SECURITY FENCING IS ALSO ACCEPTABLE.
- SAD FENCE SHALL BE SUPPORTED BY STEEL "V" OR "T" TYPE POSTS PLACED AT MAXIMUM 16-FOOT INTERVALS.
- FENCE SHALL BE WIRE OR "ZIP" TIED TO THE SUPPORT POSTS.
- THE FENCE SHALL BE MAINTAINED IN A WORKMAN LIKE MANNER, AND SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS ACHIEVED.

EROSION PREVENTION AND SEDIMENT CONTROL
CONSTRUCTION NOTES:

- NEW LOT OWNERS/CONTRACTORS MUST COMPLY WITH THE EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS OF THE CITY OF BURLINGTON.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED.
- ALL AREAS MUST HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS TIME ANY DISTURBANCE IN THE AREAS MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY:
 - STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST WITHIN THE NEXT 24 HOURS.
 - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. HOUSE FOUNDATION EXCAVATION, UTILITY TRENCHES)
- ALL EROSION CONTROL MEASURES MUST BE INSPECTED AT A FREQUENCY OF EVERY 7 DAYS OR WITHIN 24 HOURS OF A PRECIPITATION EVENT CAUSING RUNOFF TO LEAVE CONSTRUCTION SITE, AND REPLACED OR REPAIRED AS NECESSARY.

EROSION CONTROL SEQUENCING

- DELINEATE THE AREA TO BE DISTURBED WITH LIMIT OF DISTURBANCE CORDON, SILT FENCE OR CONSTRUCTION FENCING AS APPROPRIATE.
- INSTALL STABILIZED CONSTRUCTION ENTRANCES.
- INSTALL TEMPORARY AND PERMANENT EROSION CONTROL FEATURES AS APPROPRIATE AND AS DESCRIBED IN THESE DETAILS.

WINTER CONSTRUCTION EROSION CONTROL MEASURES

ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED DURING THE WINTER CONSTRUCTION SEASON IF EARTH DISTURBANCE IS PLANNED DURING THIS TIME (OCTOBER 15TH TO APRIL 15TH). CONTRACTOR/LANDOWNER SHALL READ AND UNDERSTAND THE FOLLOWING ITEMS:

- NON-VEGETATIVE PROTECTION MUST BE INSTALLED AFTER SEPTEMBER 15TH TO BARE SOILS INCLUDING EROSION CONTROL BLANKETS AND/OR HEAVY MULCH LAYER.
- APPLY A MINIMUM OF 3 INCHES OF MULCH WITH AN 80-90% DUST COVER. MULCH SHALL BE TRACKED OR STABILIZED WITH NETTING IN OPEN AREAS VULNERABLE TO WIND.
- PROVIDE ENLARGED ACCESS POINTS TO THE SITE, STAPLED TO PROVIDE FOR SNOW STOCKPILING.
- LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- CLEARED SNOW SHALL BE STOCKPILED DOWNSLOPE OF ALL AREAS OF DISTURBANCE AND OUT OF STORMWATER TREATMENT STRUCTURES.
- A MINIMUM 25 FOOT BUFFER SHALL BE MAINTAINED ON PERIMETER CONTROLS SUCH AS SILT FENCE.
- IN AREAS OF DISTURBANCE THAT DRAIN TO A WATERBODY WITHIN 100 FEET, TWO ROWS OF SILT FENCE MUST BE INSTALLED ALONG THE CONTOUR.
- DRAINAGE STRUCTURES MUST BE KEPT FREE AND CLEAR OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES MUST BE INSTALLED AHEAD OF FROZEN GROUND.
- DISTURBED SOILS MUST BE STABILIZED AT THE END OF EACH WORK DAY, UNLESS NO PRECIPITATION IS FORECAST WITHIN 24 HOURS AND WORK WILL RESUME WITHIN 24 HOURS IN THE SAME DISTURBED AREA, IN AREAS THAT COLLECT AND RETAIN RUNOFF SUCH AS GREASE FOUNDATIONS AND UTILITY TRENCHES DAILY STABILIZATION IS NOT REQUIRED.
- PRIOR TO STABILIZATION SNOW AND ICE SHALL BE REMOVED TO LESS THAN 1 INCH THICKNESS.
- USE STONE TO STABILIZE AREAS SUCH AS THE PERIMETER OF BUILDINGS UNDER CONSTRUCTION OR WHERE CONSTRUCTION VEHICULAR TRAFFIC IS ANTICIPATED.

Redstone

Snyder Homes
Great neighborhoods
to come home to

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Shelburne, Vermont 05482
p 802.985.5722 - f 802.497.0701
www.SnyderHomesVT.com

CLIENT

PINE & FLYNN
DEVELOPMENT

LOCATION

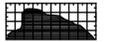
316 FLYNN AVE (CORNER OF PINE & FLYNN
BURLINGTON, VERMONT

OWNER

G & C PROPERTIES
BURLINGTON, VERMONT
TEL: 802 343 6789

CONTRACTOR

CIVIL ENGINEER



STAMP



Issue Date Issue Date

Project

EROSION CONTROL AND LANDSCAPING DETAILS

Drawing Title

Project No. 8163 Drawn By: BEG Date: 6/29/15 Scale: N.T.S.

Floor(s)

Drawing No.

D2



Burlington Department of Public Works
Stormwater Program

234 Penny Lane (Water Plant)
Burlington, VT 05401

PH: 802-863-4501 Email: stormwater@burlingtonvt.gov



Standard Erosion Prevention & Sediment Control (EPSC) Plan

This questionnaire and associated EPSC plan sheets are required for projects

- on properties other than single family (R1) or duplexes (R2) that require a level II or III Certificate of Appropriateness or Major Impact zoning applications and involve 5000 sq. ft. or more of earth disturbance; or
any activity where a zoning permit is not required but where the project involves 10,000 sq. ft. or more of earth disturbance; or
if requested by the Stormwater Program due to project characteristics such as slope, soils or proximity to drainage structures or waterbodies.

Please note that you must submit EPSC plan and detail sheets as outlined in section A below.

All projects involving redevelopment or addition of impervious surface must submit the stormwater management screening project (attached) for evaluation or meet with the Stormwater Program to determine the stormwater management requirements for your project.

1. Project Location _____

2. Zoning Permit Address (if different from above): _____

3. Brief Project Description (i.e. building construction, subdivision, site work)

4. Owner Name: _____

5. Owner Mailing Address: _____

6. Owner Phone: _____ 6. Owner email: _____

7. Contractor Name: _____ Contractor not known at this time

8. Contractor Phone: _____ 9. Contractor Email: _____

10. Estimated Project Start Date _____ Estimated End Date _____

11. Area of Land Disturbance _____ sq. ft.

12. Total proposed (existing + new) amount of impervious: _____ sq. ft.

14. Does your project require a State Construction Stormwater Permit (9020 or INDC) ? Yes No
(You will be required to submit proof of your authorization to discharge prior to initiation of earth disturbance).

A. REQUIRED PLAN SHEETS:

15. Plan sheet(s) MUST BE ATTACHED showing the following:

- Limits of disturbance
Location of stockpiles (if any)
Location of stabilized construction entrances
Phasing plan (if appropriate)
Direction of stormwater flow on site
Location of sediment control BMP's (silt fence etc.)
Stabilization measures

*impervious = any surface off of which water runs off rather than infiltrates, including, but not limited to rooftops and paved/unpaved (gravel/packed dirt) driveways, walkways and patios

16. Detail sheet MUST BE ATTACHED and include details for all EPSC measures listed on the EPSC Plan Sheet.

Additionally, notes must be included related to:

- Daily inspection of roadways and sweeping as necessary
- Dewatering measures (if applicable)
- Temporary site stabilization requirements
- Final site stabilization requirements
- Winter site stabilization (for disturbance after November 1)
- Inspection requirements

B. EPSC QUESTIONNAIRE (See last page for typical solutions to these questions)

A) Do you anticipate the need for any dewatering of excavations during the construction? Yes No

- If yes, please indicate which plan sheet has details for how dewatering operations will be managed to prevent the discharge of sediment laden water. Sheet(s): _____

B) Will excavated soil be stockpiled on the site? Yes No If yes, show locations and EPSC measures for the stockpile on plan sheet(s)

- If no, where is the ultimate disposal of excess soil? _____

C) Do you plan to park construction vehicles on or disturb City owned property like the greenbelt area? Yes No

- If yes, tell us how you agree to repair all disturbances or damage to City owned property and provide a written approval from the City allowing construction vehicles to park on City owned property.

- If no, then please monitor all construction and visitor vehicles and advise all not to park on City owned property.

D) Will stockpiles or disturbed soils be present and/or exposed after Nov. 1st of any construction year? Yes No

- If yes, tell us how you plan to stabilize any stockpile and/or disturbed soils.

Do you agree to abide by the following conditions?

Y N Applicant will call 863-4501 or email gjohnson@burlingtonvt.gov at least 24 hours prior to initiating earth disturbance and submit the **name and contact (cell phone and email) of the erosion control coordinator for the project**

Y N Applicant will post the attached notice in a visible location

Y N I acknowledge that it is the responsibility of the owner and his/her representatives to ensure that:

- o sediment does not enter surface water bodies (streams, ditches, ponds, lakes, wetlands etc.)
- o sediment does not enter City conveyance infrastructure (catch basins, sewers etc.) and
- o All sediment must be removed from the city ROW (sidewalks and roadways) by the end of each work day.

Y N Sediment control measures will be installed prior to the initiation of earth disturbance.

- Y N During the non-winter construction season (April 15 – November 1): After an initial **14 day** period of initial disturbance, temporary or permanent stabilization (mulching, erosion control matting or tarps for stockpiles, or other approved method) of exposed areas and stockpiles will occur at the end of each work day unless:
 - Earthwork is to continue in the area within the next 24 hours **and** there is NO liquid precipitation forecast for the next 24 hours; or
 - If work is occurring in a self contained excavation (no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation or utility trenches).
- Y N During the winter construction period from November 1 to April 15, any **new disturbance** must be temporarily or permanently stabilized (mulching, erosion control matting or tarps for stockpiles, or other approved method) will occur at the end of each work day unless:
 - Earthwork is to continue in the area within the next 24 hours **and** there is NO liquid precipitation forecast for the next 24 hours; or
 - If work is occurring in a self-contained excavation (no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation or utility trenches)
- Y N The perimeter of the site and all BMPs will be inspected at the **end of each workday** to ensure that sediment will not leave the site. If sediment has travelled beyond the site boundary, it shall be swept up or otherwise removed and deposited on-site in an upgradient area at the **end of each work day**.
- Y N The owner and his/her representatives shall abide by the best management practices (BMPs) indicated in this plan and conditions and in the Vermont DEC Low Risk Site Handbook for Erosion Prevention and Sediment Control (2006). Contact 802-863-4501 for a hard copy or go to the web:
http://vtwaterquality.org/stormwater/docs/construction/sw_low_risk_site_handbook.pdf
- Y N **If soils will be exposed after November 1st and winter construction has not been permitted the project will notify DPW prior to October 15th and ensure that sediment control is installed PRIOR to soil freezing.** If the project is completed during the winter months, an additional inspection will be required to ensure that the site is buttoned up for the winter.
- Y N Within 48 hours of reaching final grading, the exposed soil will be seeded and mulched or covered with erosion control matting (for slopes steeper than 3:1 or high wind prone areas). Erosion control matting is preferred.
- Y N The owner will contact DPW to schedule a stabilization inspection when site work is finished and stabilization measures (seeding and mulching or matting) have been installed.

AGREEMENT

By filling out and signing this plan, I agree to abide by the terms and conditions outlined above. Failure to follow this plan can result in a stop work order by the City of Burlington, fines, or both.

By: Owner Contractor

Name

Signature

Date

Additional Conditions of Approval:

AN EROSION PREVENTION AND SEDIMENT CONTROL PLAN

FOR THE PROJECT AT:

HAS BEEN FILED WITH THE CITY OF BURLINGTON
STORMWATER MANAGEMENT PROGRAM IN ACCORDANCE
WITH CHAPTER 26 OF THE BURLINGTON CODE OF ORDINANCES

THIS REQUIRES THAT MEASURES BE INSTALLED OR TAKEN TO
PREVENT SEDIMENT FROM LEAVING THE SITE AND ENTERING
WATERWAYS AND IMPACTING CITY INFRASTRUCTURE
(RIGHT OF WAY AND STORMDRAINS)

FOR QUESTIONS OR TO REPORT SEDIMENT LEAVING THE SITE
CALL 802-863-4501

This notice to be posted in full view at all times during earth
disturbance. Additional conditions on attached.

Plan Approved by: _____ Date: _____
Burlington Stormwater Program

TYPICAL SOLUTIONS TO PREVENT OR CONTROL SEDIMENT AND EROSION

STOCKPILES

- Cover small stockpiles with a tarp when not being used.
- Install silt fencing or other appropriate devices around the stockpiles to filter sediment.
- Cover stockpiles with straw or other approved mulching material.
- Plan to remove any unusable material as soon as possible from the site to an approved location.
- Plant grass and mulch stockpiles that will be on site for more than 14 days.
- Cover, vegetate or install erosion matting on stockpiles that will remain disturbed over the winter.

DISTURBED AREAS

- Maintain vegetated buffers around disturbed areas.
- Install silt fencing or other appropriate device to filter sediment washing off from disturbed areas. Remember that the bottom of the silt fence must be “keyed in” (dug into ground) to work correctly.
- To prevent sediment from running off your site via your driveway (or other paved areas where you can’t install silt fence) use a row of hay bales or tube sand.
- Cover disturbed areas as soon as possible with straw or other approved mulching material. Use erosion control matting in high wind, traffic or slopes steeper than 3:1 (horizontal to vertical), and follow the manufacturer’s guidelines staple the matting down.
- Plant grass and mulch or use erosion control matting all disturbed areas that will remain exposed for more than 14 days.
- Cover, vegetate or install erosion matting on areas that will remain disturbed over the winter.
- Protect ditches, catch basins or water bodies off-site by using silt fencing, gravel check dams or other approved sediment control methods.

CONSTRUCTION VEHICLES

- Do not park construction vehicles on City owned green space. Vehicles disturb vegetation and compact the soil, thereby reducing its ability to infiltrate stormwater. Any green belt disturbance will need to be permanently stabilized with grass seed and erosion control matting.
- Prevent sediment from leaving the project by cleaning the tires of vehicles, or use clean gravel at project access points to clean tires.
- Sweep city streets, sidewalks and bikepaths daily or as needed to remove sediment transported from the project.

RESOURCES

The Vermont Handbook for Erosion Prevention and Sediment Control at:

http://vtwaterquality.org/stormwater/docs/construction/sw_low_risk_site_handbook.pdf

The City of Burlington Stormwater Program Page at

<http://www.burlingtonvt.gov/DPW/Stormwater-Management>



Stormwater Management Plan Pre-Screening

Please provide the following information to the Stormwater Program (stormwater@burlingtonvt.gov, ph: 863-4501) in order to determine what the requirements will be for your project.

- General Information
 - Project Address:
 - Owner:
 - Engineer:
 - Brief project description:

- Stormwater Management Plan
 - Impervious¹ change summary

Condition	Type	Total Impervious (s.f.)
Existing Conditions	Existing Impervious	
Proposed	Total Proposed (1+2+3)	
	1) New ²	
	2) Existing to Remain	
	3) Redeveloped	
Net New	Total Proposed – Existing	

If available at this time:

- Existing conditions: *description of existing conditions, description of existing stormwater system, existing drainage issues, current connectivity to City system*

- Proposed Conditions: *description of proposed conditions, brief description of proposed stormwater system, proposed method of discharge to receiving water or City system (overland flow, direct connection via pipe, existing or new manhole or CB)*

¹ Impervious = any surface off of which water runs off rather than infiltrates, including, but not limited to rooftops and paved/unpaved (gravel/packed dirt) driveways, walkways and patios

² Impervious where there is not currently impervious



SUMMIT ENGINEERING, INC

Engineers + Surveyors + Planners + Landscape Architects

Stormwater Management Plan

Pine and Flynn

316-322 Flynn Avenue, Burlington, Vermont

June 28, 2016

Owner: G&C Properties LLC
316 Flynn Avenue, Burlington, VT 05401
(802) 343-6789

Engineer: Summit Engineering, Inc.
1233 Shelburne Road, C2
So. Burlington, VT 05403
(802) 658-5588

Architect: Innovative Design Inc.
8 Carmichael Street, Suite 104
Essex Jct., Vt. 05452
Phone: 802.872.8430

Contractor: Snyder Homes Inc.
4076 Shelburne Road, Suite 6
Shelburne, VT 05482
Phone: 802.985-5722

Project Description

The project consists of the construction of a Multi-Use Building at 316 Flynn Avenue on the lot of the currently operating Pine Street Deli and the associated utilities, parking and landscaping. The improvements will include reconstruction of the adjacent city sidewalks and the installation of a stormwater attenuation and treatment tank.

Using the state of Vermont stormwater guidelines, the risk category has been defined as “Low”. The site improvements include items that will be phased (building excavation and construction, sidewalk replacement, site regarding, utility installation and replacement, etc.) to minimize the time of exposed soils.

Existing Conditions

The site runoff from the existing site runs to Englesby Brook via sheet flow, gutter flow, a catch basin in Flynn Avenue and the Outlet drainage pipe in Pine Street. The site has no collection system with all the runoff exiting the site via sheet flow and overland flow. The majority of the site is covered by paved parking and rooftops.

Soils –

The soils along the brook are mapped by the NRCS as Munson and Belgrade Silt Loams with C & D Hydrologic Soils Groups.

Stormwater Treatment and Drainage Considerations –

The proposed stormwater treatment methods are the result of space limitations and the poor infiltration properties of the underlying soils. Roof drain systems create a concentration of runoff to a new culvert to Englesby Brook. The installation of a Flow Attenuator/Sedimentation Tank with level spreader prior to the final discharge is the most efficient method of improving the runoff characteristics of the roof-top runoff from the site. Paved surfaces are directed via sheet and gutter flow to a bioretention structure that is connected to the Attenuator/Sedimentation tank. Fringe impervious areas of the site will continue to drain to the adjacent street systems and runoff directly to Englesby Brook.

Site Runoff will continue to enter the City of Burlington Municipal Stormwater system and the adjacent brook (Englesby) via overland flow, gutter flow, attenuatin/sedimentation tank, bioretention structure and level spreader. The overall impervious area of the site will be reduced by approximately 500 sf with 9,300 sf of the new roof directed to the attenuation tank and 12000 sf of paved surfaces being directed to the bioretention structure and routed through the treatment tank.

Runoff Attenuation –

The resulting stormwater design, including the Flow Reducer Tank, based on a TR-55 runoff model, will result in a reduction of the peak design flows for the 1, 2, 10, 25 and 100-year, 24-hour design storms as specified in the table included on the design plans and stormwater management details.

Erosion Prevention and Sediment Control Practices and Features

Referenced Specifications –

Reference is made to The Vermont Standards and Specifications for Erosion Prevention & Sediment Control, 2006 - Vermont Department of Environmental Conservation. A copy of this document is to be kept on-site as a guide and reference during construction.

Minimization of Disturbance -

Work areas to be disturbed are to be defined with construction control fencing to eliminate the expansion to and protect undisturbed vegetated areas.

Temporary/Permanent Stabilization-

All disturbed areas are to be stabilized promptly, within 7 days of initial disturbance and after the end of each workday if further disturbance occurs. Both temporary and permanent

measures are to rely heavily on mulching and the reestablishment of healthy vegetative growth. Guidelines and specifications outlined on the plans. Permanently stabilized areas will not be considered completed until a healthy vegetative ground cover is in place.

Construction Control Fencing –

The fencing is to be 3-foot high minimum orange safety fence located along the perimeters where shown on the plan or determined as necessary by the on-site plan coordinator.

Silt Fencing –

Silt fence is to be installed down gradient of all disturbed embankment areas and around temporary soil stockpiles. In preparation of winter construction, the fencing is to be installed before ground freezes. In areas where receiving waters are less than 100 feet down slope, a double row of silt fence must be installed. Silt fence is to be installed in accordance with the plan details.

Erosion Control Matting –

Erosion Control matting is to be installed in all new permanent and temporary diversion channels and cut/fill slopes steeper than 1 vertical:4 horizontal.

Site Inspections –

Site inspections shall be performed at least once every seven days and with 24 hours of a precipitation event that causes runoff to leave the construction site. Upon completion of all construction and installation of the permanent erosion controls, the disturbed areas are to be evaluated once a month until a healthy vegetative cover is in place. Features or practices that are in place shall be evaluated and repaired as necessary in accordance with the plan details.

Construction Schedule -

The following sequencing of activities associated with erosion and sediment control is expected:

1. Install construction control fencing and stabilized construction entrance. The fencing is to be installed, maintained and removed as necessary to facilitate the construction of the various site features.
2. Install catch basin sedimentation traps and grading of stormwater treatment areas and basins that are to receive runoff from disturbed areas.
3. Proceed with construction, installing the Flow Reducing Tank for use during the construction process.
4. Stabilize all disturbed areas as defined in the construction plans with temporary or permanent measures as required by the plan and referenced specifications pertaining to the completion of the construction and the conditions of winter construction.

Winter Construction –

1. Winter construction season is defined as October 15 through May 1 of each year. During this period, the following extra precautions shall be observed:
2. Non-Vegetative protection must be installed after September 15th to bare soils including erosion control blankets and /or heavy mulch layer.
3. Apply a minimum of 3 inches uncompacted mulch to bare areas. Mulch shall be tracked or stabilized with netting in open areas exposed to wind.
4. Areas not to be subject to winter construction are to be defined and protected until they become active again or permanently stabilized.
5. Areas for snow storage are to be defined and snow removed from the site and disposed of properly if on-site areas cannot be provided.
6. Snow storage shall occur down slope of all areas of disturbance.
7. Areas of disturbance closer to 100 feet uphill of receiving waters shall receive two rows of silt fence installed in accordance with plan details.
8. Silt fence and other erosion control features shall be installed prior to ground freeze.
9. Disturbed soils must be stabilized at the end of each work day unless no precipitation is forecast within 24 hours and work will resume within 24 hours in the same disturbed area. In areas that collect and retain runoff such as foundations and utility trenches daily stabilization is not required.
10. Prior to permanent and/or temporary stabilization, snow and ice shall be removed to less than 1 inch thickness.
11. Stone is to be applied to drip areas of buildings under construction and where vehicular traffic is expected.

Impervious Change Summary

Condition	Type	Impervious (s.f.)
Existing Conditions	Existing Impervious	17,548
Proposed	New Building	9,296
	New Parking, Patio, Walkways and Misc.	7,824
	Total Proposed	17,120

Stormwater Management Summary:

Pine and Flynn Stormwater Management Plan

Standard	Amount of impervious managed	
	New Impervious	Redeveloped Impervious
Water Quality	10,100	10,100

*Redeveloped impervious is used to describe the rehabilitation of asphalt pavement and the replacement of concrete sidewalks.

Improved Stormwater Management Methods

Included in the site design to provide management of stormwater runoff from the site is a stormwater sedimentation and attenuation tank to detain the design flows and trap sediment. The design of the site will control the peak runoff from the site to a rate less than the existing conditions. .

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