



CITY OF DOVER

PLANNING TECHNICAL REVIEW COMMITTEE –AGENDA

REVISED

Meeting Type: Regular Meeting
Meeting Location: Council Conference Room – City Hall, Dover NH
Meeting Date: **Thursday, October 7, 2021**
Meeting Time: **10:30 AM**

1. 10:30 AM – 11:15 AM: Site Review for Dover Coast, LLC. (Owners: Dover Coast, LLC and Sandra Pontbriand), Assessor's Map 28, Lots 13 & 14, zoned G-Gateway & O-Office, located at 725 Central Ave & 4 Brick Road. (Proposal is to construct a new 4 story apartment building with 13 units (10 via TDR) and a basement level garage plus a surface parking lot. (P21-53) *[This item was previously heard on September 2, 2021]*

CIVIL CONSULTANTS MEMORANDUM

TO:	City of Dover Planning Department	FROM:	Geoffrey R. Aleva, P.E.	DATE:	09/15/2021
SUBJECT:	Technical Review Committee Minutes / Response Memorandum				
PROJECT:	725 Central Avenue (2117800)				

Following please find CIVIL CONSULTANTS's responses to the TRC meeting minutes letter dated 9-2-2021.

COMMENT	RESPONSE
<u>Planning:</u>	
Impact fees	To be determined
Water and Sewer investment fees	To be determined
TDR fees will be a condition of approval	To be determined
Provide: 1. TDR app for review 2. Landscape and operation maintenance plan 3. Lot Line Adjustment Plan that meets regulations/registry regulations 4. Streetscape along Brick 5. Narrative addressing parking being sufficient	1. TDR application provided 2. Landscape and Maintenance provided in submission. 3. To be provided. The developers are finalizing the ownership transfer for parcel 28-14. 4. Provided in revised submission, Sheet A4.2 5. See the attached information on parking
Revise Plan Set to add: 1. Missing Common Site Plan Notes #5, 24, 31 2. Revise note 35 on Page L2 to Chapter 81-30 3. Include File #P21-53 on each plan sheet 4. Streetscape 5. Landscape plan to meet regulations 6. Lighting plan to meet regulations 7. Owners signatures on final submission 8. Professional Stamp and signatures on each submission 9. Correct map to Map 28 10. Combine site plans and architectural plans and renderings into one plan set 11. Will review polymer shingles to hardy plank or at least provide material sample 12. Revise dumpster screening to stockade from vinyl 13. Revise dumpster to toters to gain parking space	1. Notes have been added. 2. Note has been revised 3. File number is included on all sheets 4. Streetscape is included in revised submission, See Sheet A4.2 5. Landscape plan is included on revised submission. 6. Lighting plan is provided in the revised submission 7. Owners signatures will be provided on final submission 8. Seals are provided on the plans. 9. Tax map has been corrected 10. The revised submission is one plan set. 11. Information on materials is included in the submission, see Attachment 3. 12. Dumpster/Tote area screening has been adjusted. 13. The Dumpster/Tote area has been revised



COMMENT	RESPONSE
<u>Engineering Comments:</u>	
Eliminate the parking on Brick St	Parking has been removed.
I have not reviewed the drainage yet. Pending.	Drainage Details will be provided, Consultant will be working with City Engineer.
The city will be installing a new water main on Central Ave in the near future. Can you come off that side of the building?	Water line has been relocated to Central Ave
Cut and cap existing water service	Notes have been added to the plans
Add street trees along Central Ave	Please refer to the attached Landscaping plans
<u>Police Department Comments:</u>	
Proposed Brick Road parking is too close to Central Avenue, and middle 18' parallel space is not viable. Reduce from 3 to 2 spaces and increase the distance from Central Ave.	Parking has been removed.
Proposed design - even with additional parallel parking added on Brick Road – still falls short of parking requirements. Consider eliminating the ground floor unit (reduce from 13 to 12) then reconfigure basement and unit storage area to accommodate a second row of interior parking. This would also allow you to eliminate the additional Brick Road parking.	We are seeking a waiver for the maximum parking counts. The design has 21 onsite parking stalls. The Applicant is pursuing several potential options to provide additional offsite parking. If that parking can be secured, the waiver request would be withdrawn.
<u>Fire/Inspections Comments:</u>	
Provide the location of the FDC on the site plan to the right of the front door in an readily accessible location which is free and clear from obstructions	The FDC is shown adjacent to the Central Ave entrance.
Provide a fire hydrant on the north side of Brick between Central Avenue and driveway entrance.	We are seeking additional information from Fire. We can address further at the meeting
Indicate the location of the sprinkler riser room	Sprinkler / Utility Room is shown on the plans. See attached Architectural and Site Plans
Submitted plans shall include design compliance with applicable accessibility regulations (i.e. IBC etc.)	All plans will be in compliance with the regulations.
The first floor shall be a type B unit for accessibility as classified by the IBC	Please refer to the Architectural plans for details



COMMENT	RESPONSE
The access aisle for the accessible parking space shall be a minimum of 8' wide if an 8' parking space is provided. Expand striping width	Site Plans have been revised.
Does the garage have access control- indicate means for first responder access/access control bypass.	The garage will not have a door to enclose the garage area.
Wall requires Building Permit	To be applied for after site plan review
<u>Economic Development:</u>	
Appreciate the material samples	Provided in this submission
Which polymer is the shingles? Would like to know weathering/durability	The Architect has provided information in this submission regarding this request. See Attachment 3
<u>Planning Board Comments:</u>	
Add screening of transformer, etc.	See Landscaping Plan for details

ATTACHED DOCUMENTS:

ATTACHMENT 1 : Parking Memorandum

ATTACHMENT 2: Project Lighting Cut Sheets

ATTACHMENT 3: Certainteed Siding Information

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ATTACHMENT 1:

PARKING REVIEW MEMO



**CIVIL
CONSULTANTS**

P.O. Box 100 South Berwick, Maine 03908 207-384-2550

CIVIL CONSULTANTS MEMORANDUM

TO: City of Dover Planning Department

FROM: Geoffrey R. Aleva, PE

SUBJECT: TRC Parking Requirements / Discussion

DATE: SEPTEMBER 15, 2021

PROJECT: 725 CENTRAL AVE – SITE REDEVELOPMENT

The proposed redevelopment project is to construct 13 – 2 bedroom units. Per the zoning ordinance the parking requirement is divided into spaces per unit and spaces per visitor. The parking review is based on non-CBD-G requirements. Based on the analysis the total parking required on site is 25 using the parking regulation table.

The redevelopment site layout has 21 spaces on site, providing 19 for residents and 2 for visitors. The site design is short 4 spaces based on the site conditions.

Central Ave and Brick Rd do not allow for adjacent on-site parking.

The project is adjacent to two public transit stops within Coast Bus Route 12.

The applicant has approached several adjacent landowners to potentially lease spaces for use by tenants to make up the required 4 deficient visitor parking spaces.

If those accommodations cannot be met, could a waiver from the maximum parking requirement be granted for this project?

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**CIVIL
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ATTACHMENT 2:

PROJECT LIGHTING CUT SHEETS



**CIVIL
CONSULTANTS**

P.O. Box 100 South Berwick, Maine 03908 207-384-2550

VIPER S

SMALL VIPER LUMINAIRE

FEATURES

- Small size companion to Viper Large
- Wide choice of different LED wattage configurations
- Nine optical distributions
- Designed to replace HID lighting up to 400W MH or HPS
- Suitable for wet locations



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Manufactured with die cast aluminum
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements
- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 2604 performance specification which includes passing a 3,000-hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds
- External hardware is corrosion resistant

OPTICS

- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one-piece optical system
- One-piece silicone gasket ensures a weatherproof seal around each individual optic
- One-piece optical cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel

INSTALLATION

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included

ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV)
- Ambient operating temperature -40°C to 25°C

ELECTRICAL (CONTINUED)

- Power factor is $\geq .90$ at full load
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only
- Fixture electrical compartment contains all LED driver components
- Optional 7-pin ANSI C136.41-2013 Twist-Lock® photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices
- Surge protection: 20kA
- Lifeshield™ Circuit ([see Electrical Data](#))

CONTROLS

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration
- Available with [Energeni](#) for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night

OPTICS STRIKE



RELATED PRODUCTS

[Viper Large](#)

CONTROLS (CONTINUED)

- In addition, Viper can be specified with [SiteSync™ wireless control system](#) for reduction in energy and maintenance costs while optimizing light quality 24/7
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application

CERTIFICATIONS

- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Certified to UL 1598 and UL 8750
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See [Buy American Solutions](#).

WARRANTY

- 5 year warranty
- See [HLI Commercial and Industrial Outdoor Lighting Warranty](#) for additional information

KEY DATA	
Lumen Range	4,045–16,216
Wattage Range	39–136
Efficacy Range (LPW)	100–124
Reported Life (Hours)	L70>60,000
Input Current Range (Amps)	0.1–1.1

VIPER S

SMALL VIPER LUMINAIRE

ORDERING GUIDE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Example: VPS-24L-55-4K7-4W-UNV-A-DBT-TL-GENI-04-BC

CATALOG #

VPS	LED Engine	CCT/CRI ⁷	Distribution	Rotation	Voltage
Series					
VPS Viper Small	24L-39 39W, LED array 24L-55 55W, LED array 36L-65 65W, LED array 36L-80 80W, LED array 48L-110 110W, LED array 60L-136 136W, LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	FR Type 1/Front Row 2 Type 2 3 Type 3 4F (formerly 4) Type 4 4W Type 4 Wide 5QM Type 5QM 5R Type 5R (rectangular) 5W Type 5W (round wide) TC Tennis Court CR Corner Right CL Corner Left	Blank No rotation L Optic rotation left ⁵ R Optic rotation right ⁵	UNV 120-277V 347 347V 480 480V

Mounting	Color	Network Control Options	Options
A Rectangular Arm (formerly RA) for square or round pole MAF Mast Arm Fitter (formerly SF2) for 2 3/8" OD horizontal arm K Knuckle (formerly PK2) limit to 30° tilt or 2 3/8" OD horizontal arm or vertical tenon WB Wall Bracket AD Universal Arm for square pole AD3 Adapter for 2.4"-4.1" round pole AD4 Adapter for 4.2"-5.3" round pole AD5 Adapter for 5.5"-5.9" round pole AD6 Adapter for 6.0"-6.5" round pole	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VG Verde Green Textured Color Option CC Custom Color	NXWE NX Wireless Enabled (module + radio) NXSPW_F Nx Wireless, PIR Occ. Sensor, Daylight Harvesting ⁷ WIR Wireless Controls, wiSCAPE SWP SiteSync Pre-Commission ^{1,4} SWPM_F SiteSync Pre-Commission w/ Sensor ^{1,2,4} Control Options GENI-XX ENERGENI ³ 7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others) 7PR-SC 7-Pin Receptacle w/Shorting Cap 7PR-TL 7-Pin Receptacle w/Twist-Lock® photo control Sensors BTS_F Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens ⁷ BTSO_F Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens, up to 12' mounting height ⁸ NXSP_F NX, PIR Occ. Sensor, Daylight Harvesting ⁷ SCP_F Programmable Occupancy Sensor w/ daylight control ^{1,2,6}	BC Backshield (available for FR, 2, 3, 4, 4W Optics) CD Continuous Dimming F Fusing TB Terminal Block

House Side Shield Accessories

- ☐ **HSS/VP-S/90-FB/XXX** 90° shield front or back
- ☐ **HSS/VP-S/90-LR/XXX** 90° shield left or right
- ☐ **HSS/VP-S/270-FB/XXX** 270° shield front or back
- ☐ **HSS/VP-S/270-LR/XXX** 270° shield left or right
- ☐ **HSS/VP-S/360/XXX** Full shield

Replace XXX with notation for desired finish color. Refer to page 8 for shield images.

Mounting Accessories

- ☐ **VPL-AD-RPA3** 2.4"-4.1" Round Pole Adapter for AD arm
- ☐ **VPL-AD-RPA4** 4.2"-5.3" Round Pole Adapter for AD arm
- ☐ **VPL-AD-RPA5** 5.5"-5.9" Round Pole Adapter for AD arm
- ☐ **VPL-AD-RPA6** 6.0"-6.5" Round Pole Adapter for AD arm

Notes:

- Not available with other wireless control or sensor options
- Specify mounting height; 8 = 8' or less, 40 = 14' to 30'
- Specify routine setting code (example GENI-04). See [ENERGENI brochure](#) and [instructions](#) for setting table and options. Not available with sensor or SiteSync options
- Specify group and zone at time of order. See [www.hubbelllighting.com/sitesync](#) for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
- Only available with FR, 2, 3, 4, 4W and 5R distributions
- Specify mounting height; 8=8'; 30=30'
- Replace "_" with "14" for up to 14' mounting height, "40F" for 15-40' mounting height
- Replace "_" with "12" for up to 12' mounting height

Accessories and Services (Ordered Separately)

- ☐ **SCP-REMOTE** Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
- ☐ **SWUSB*** SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
- ☐ **SWTAB*** Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node
- ☐ **SWBRG** SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested
- ☐ **SW7PR+** SiteSync 7-Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC
- ☐ **BIRD-SPIKE-3** Bird Spikes

* When ordering SiteSync at least one of these two interface options must be ordered per project.
+ Available as a SiteSync retrofit solution for fixtures with an existing 7-pin receptacle.

Hubbell Control Solutions — Accessories (Sold Separately)

NX Distributed Intelligence™

- ☐ **NXOFM-1R1D-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC

wiSCAPE® Lighting Control

- ☐ **WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC

For additional information related to these accessories please visit [www.hubbellcontrolsolutions.com](#). Options provided for use with integrated sensor; please view specification sheet ordering information table for details.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

VIPER S

SMALL VIPER LUMINAIRE

CONTROLS

SiteSync — Precommissioned Ordering Information:

When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [the SiteSync family page on our website](#) or contact Hubbell Lighting tech support at 864-678-1000.



SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DB/SWP/
VP-L/80L-235/4K7/3/UNV/A/DB/SWPM-40F/

SiteSync only
SiteSync with Motion Control

SiteSync 7-Pin Module:

- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Does not interface with occupancy sensors



SW7PR

NX Distributed Intelligence™ Lighting Controls:

Supports both indoor and outdoor applications in a variety of deployment options: wired, wireless and hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync Color Tuning Technology.



NX Integrated Controls Reference								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wireless								
NXOFM-1R1D-UNV	SCLNX	Yes	Yes	Yes	Yes	Yes	Yes	Yes, Bluetooth App

wiSCAPE™:

Supports remote management, monitoring and metering of outdoor wireless lighting applications such as smart campuses, smart cities, parking lots, parking lots and roadways.



wiSCAPE Reference								
wiSCAPE Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
Networked – Wireless								
WIR-RME-L	WIR-RME-L	Yes	Yes	No	Yes	Yes	Yes	wiSCAPE Gateway

VIPER S

SMALL VIPER LUMINAIRE

DELIVERED LUMENS

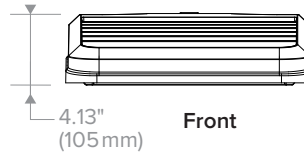
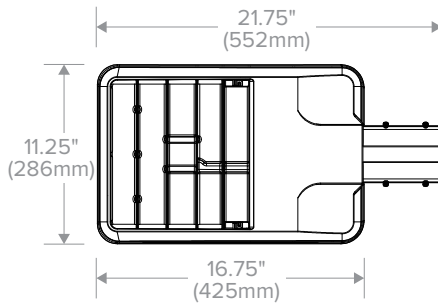
# of LEDs	DRIVE CURRENT (mA)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
24	500mA	39W	FR	4689	120	1	0	0	4665	120	1	0	0	4432	114	1	0	0
			2	4523	116	1	0	1	4500	115	1	0	1	4275	110	1	0	1
			3	4436	114	1	0	1	4414	113	1	0	1	4194	108	1	0	1
			4F	4362	112	1	0	2	4340	111	1	0	2	4123	106	0	0	2
			4W	4280	110	1	0	2	4258	109	1	0	2	4045	104	1	0	2
			5QM	4442	114	2	0	1	4420	113	2	0	1	4199	108	2	0	0
			5R	4472	115	2	0	2	4450	114	2	0	2	4227	108	2	0	2
			5W	4335	112	3	0	1	4336	111	3	0	1	4114	105	3	0	1
			TC	4561	117	1	0	1	4538	116	1	0	1	4311	111	1	0	1
			CL	4758	122	1	0	2	4758	122	1	0	2	4329	111	1	0	1
24	700 mA	55W	CR	4773	122	1	0	2	4773	122	1	0	2	4361	112	1	0	1
			FR	6357	118	1	0	1	6486	120	1	0	1	5804	107	1	0	1
			2	6132	114	1	0	1	6257	116	1	0	2	5599	104	1	0	1
			3	6015	111	1	0	2	6137	114	1	0	2	5492	102	1	0	2
			4F	5921	110	1	0	2	6034	112	1	0	2	5400	100	1	0	2
			4W	5793	108	1	0	2	5909	110	1	0	2	5272	98	1	0	2
			5QM	6022	112	2	0	1	6145	114	2	0	1	5499	102	2	0	1
			5R	6063	112	3	0	3	6187	115	3	0	3	5536	103	3	0	3
			5W	5908	109	3	0	1	6028	112	3	0	1	5908	102	3	0	1
			TC	6183	113	1	0	1	6309	118	1	0	1	5645	105	1	0	1
36	560 mA	65W	CL	6707	122	1	0	2	6707	122	1	0	2	6117	111	1	0	2
			CR	6729	122	1	0	2	6729	122	1	0	2	6143	112	1	0	2
			FR	7864	121	1	0	1	8041	124	1	0	1	7189	111	1	0	1
			2	7586	117	1	0	2	7757	119	1	0	2	6934	107	1	0	2
			3	7441	114	1	0	2	7609	117	1	0	2	6802	105	1	0	2
			4F	7317	110	1	0	2	7482	112	1	0	2	6688	100	1	0	2
			4W	8690	108	1	0	2	8864	110	1	0	2	7908	98	1	0	2
			5QM	7450	115	3	0	1	7618	117	3	0	1	6810	105	3	0	1
			5R	7501	115	3	0	3	7670	118	3	0	3	6857	105	3	0	3
			5W	7309	112	3	0	2	7473	115	3	0	2	6681	103	3	0	1
36	700 mA	80W	TC	7540	116	1	0	1	7694	118	1	0	1	7694	122	1	0	2
			CL	8179	126	2	0	2	8179	126	2	0	2	7467	115	1	0	2
			CR	8205	126	2	0	2	8205	126	2	0	2	7492	115	1	0	2
			FR	9535	118	1	0	1	9730	120	1	0	1	8706	107	1	0	1
			2	9197	114	1	0	2	9385	116	1	0	2	8398	104	1	0	2
			3	9022	111	1	0	2	9206	114	1	0	2	8238	102	1	0	2
			4F	8871	110	1	0	2	9052	112	1	0	2	8100	100	1	0	2
			4W	11587	108	1	0	3	11819	110	1	0	3	10544	98	1	0	3
			5QM	9033	112	3	0	1	9217	114	3	0	1	8248	102	3	0	1
			5R	9095	112	3	0	3	9280	115	3	0	3	8304	103	3	0	3
48	700 mA	110W	5W	8861	109	3	0	2	9043	112	3	0	2	8092	100	3	0	2
			TC	9275	115	1	0	1	9464	118	1	0	1	8468	105	1	0	1
			CL	10060	126	2	0	2	10060	126	2	0	2	9184	115	2	0	2
			CR	10093	126	2	0	2	10093	126	2	0	2	9215	115	2	0	2
			FR	12713	118	1	0	1	12973	120	2	0	1	11608	107	1	0	1
			2	12263	114	2	0	2	12513	116	2	0	2	11197	104	2	0	2
			3	12029	111	2	0	2	12275	114	2	0	2	10984	102	1	0	2
			4F	11828	110	1	0	3	12069	112	1	0	3	10800	100	1	0	2
			4W	11609	108	1	0	3	11841	110	1	0	3	10564	98	1	0	3
			5QM	12044	112	3	0	2	12290	114	3	0	2	10997	102	3	0	1
60	700 mA	136W	5R	12126	112	3	0	3	12374	115	3	0	3	11072	103	3	0	3
			5W	12126	109	4	0	2	12057	112	4	0	2	10789	100	4	0	2
			RC	12366	115	1	0	2	12619	118	1	0	1	11290	105	1	0	2
			CL	13414	122	2	0	3	13414	122	2	0	3	12246	111	2	0	2
			CR	13458	122	2	0	3	13458	122	2	0	3	12287	112	2	0	2
			FR	15891	117	2	0	2	16216	120	2	0	2	14511	107	2	0	1
			2	15329	113	2	0	2	15642	116	2	0	2	13997	103	2	0	2
			3	15037	111	2	0	3	15344	113	2	0	3	13730	101	2	0	3
			4F	14784	109	1	0	3	15086	111	1	0	3	13500	100	1	0	3
			4W	14802	109	2	0	3	15104	112	2	0	3	13515	100	2	0	3
60	700 mA	136W	5QM	15055	111	3	0	2	15362	114	3	0	2	13747	102	3	0	2
			5R	15158	112	4	0	4	15469	114	4	0	4	13841	102	4	0	4
			5W	14781	109	4	0	2	15083	111	4	0	2	13495	100	4	0	2
			TC	15458	115	1	0	2	15834	118	1	0	2	14113	105	1	0	2
			CL	16768	123	3	0	3	16768	123	3	0	3	15309	113	2	0	3
			CR	16823	124	3	0	3	16823	124	3	0	3	15359	113	2	0	3

VIPER S

SMALL VIPER LUMINAIRE

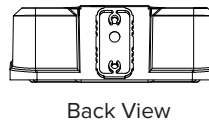
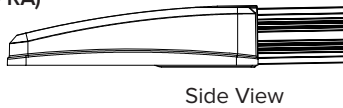
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DIMENSIONS

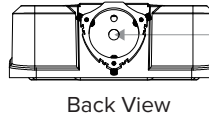
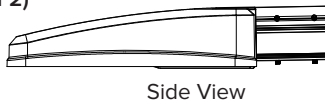


Weight	15.0 lbs (6.8 kg)
EPA	.67 ft ²

A Arm (formerly RA)

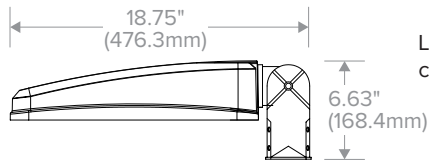


MAF (formerly SF2)



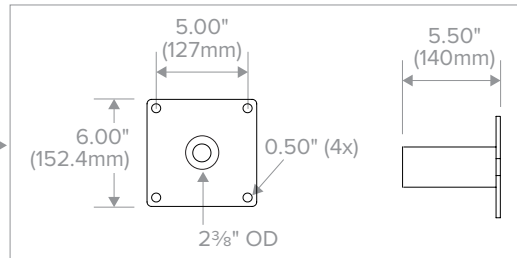
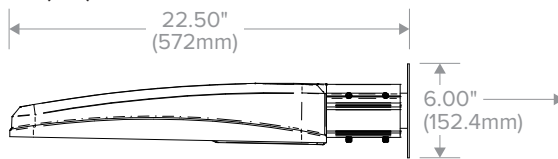
Accepts 2 3/8" OD tenon, min 5" long.

2 3/8" Adjustable Knuckle (K) (formerly PK2)

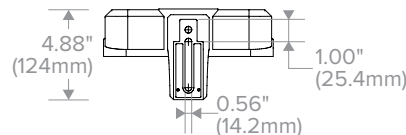
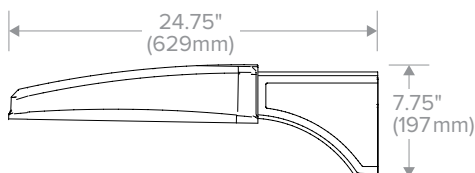


Limit to 30° tilt. Sensor, photocell and wireless controls should not be tilted above horizontal.

Wall Bracket (WB)



AD Decorative Arm



See [page 9](#) for mounting details.

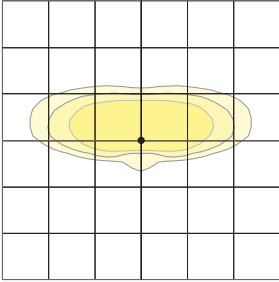
VIPER S

SMALL VIPER LUMINAIRE

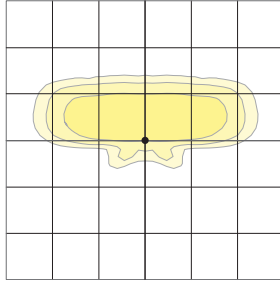
PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).

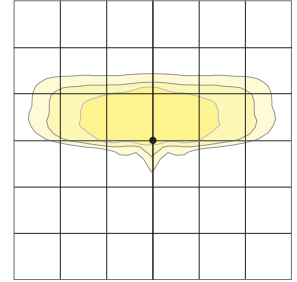
Type FR – Front Row/Auto Optic



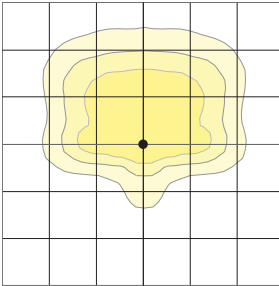
Type 2



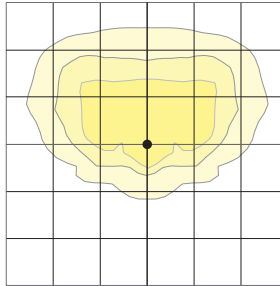
Type 3



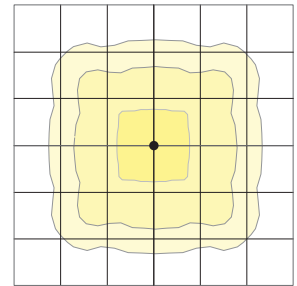
Type 4



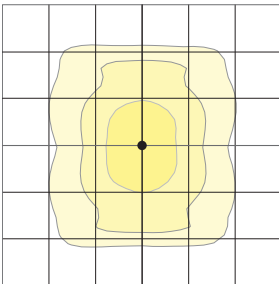
Type 4 Wide



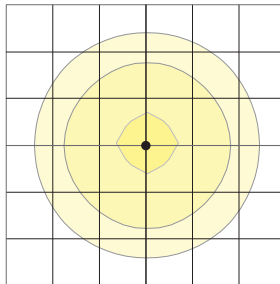
Type 5QM



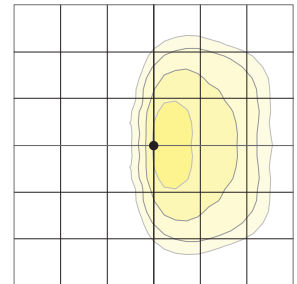
Type 5R (rectangular)



Type 5W (round wide)



Type TC



VIPER S

SMALL VIPER LUMINAIRE

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
24	1	500 mA	120	39	0.33
			277		0.14
			347		0.11
			480		0.08
24	1	700 mA	120	55	0.5
			277		0.2
			347		0.2
			480		0.1
36	1	525 mA	120	65	0.65
			277		0.28
			347		0.22
			480		0.16
		700 mA	120	80	0.7
			277		0.3
			347		0.2
			480		0.2
48	1	700 mA	120	110	0.9
			277		0.4
			347		0.3
			480		0.2
60	1	700 mA	120	136	1.1
			277		0.5
			347		0.4
			480		0.3

PROJECTED LUMEN MAINTENANCE						
Ambient Temp.	0	25,000	50,000	TM-21-11 60,000 ¹	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.97	0.95	0.95	0.92	>377,000

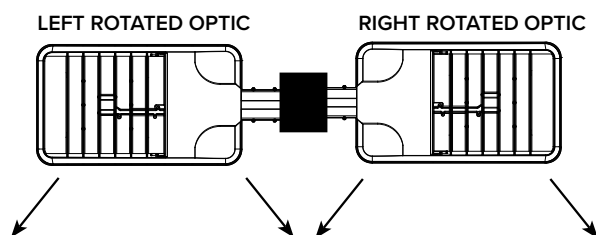
¹ Projected per IESNA TM-21-11.
Data references the extrapolated performance projections for the 60 LED base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

LIFESHIELD™ CIRCUIT

Protects luminaire from excessive temperature. The device activates at a specific, factory-preset temperature and progressively reduces power over a finite temperature range. Operation is smooth and undetectable to the eye. Thermal circuit is designed to “fail on”, allowing the luminaire to revert to full power in the event of an interruption of its power supply or faulty wiring connection to the drivers. The device can co-exist with other 0–10V control devices (occupancy sensors, external dimmers, etc.)

ADDITIONAL INFORMATION

ROTATION OPTIONS



VIPER S

SMALL VIPER LUMINAIRE

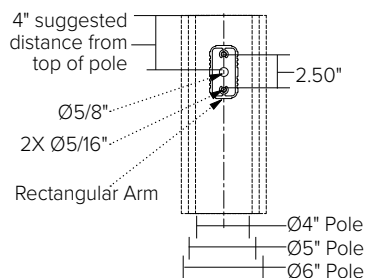
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ADDITIONAL INFORMATION (CONTINUED)

DRILL PATTERN

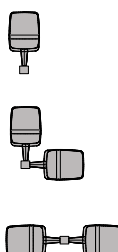
RECTANGULAR ARM (A)

Compatible with Pole drill pattern B3

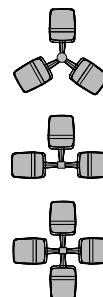


EPA

Config.	EPA
1	.67
2 @ 90°	1.06
2 @ 180°	1.34



Config.	EPA
3 @ 120°	1.68
3 @ 90°	1.73
4 @ 90°	2.12



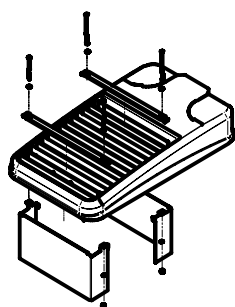
TENON TOP POLE BRACKET ACCESSORIES (ORDER SEPARATELY)

(2 3/8" OD tenon)

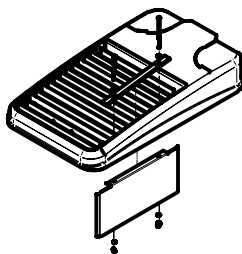
TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

- ☐ **SETAVP-XX** Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
- ☐ **RETAVP-XX** Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
- ☐ **SETA2XX** Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
- ☐ **RETA2XX** Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only

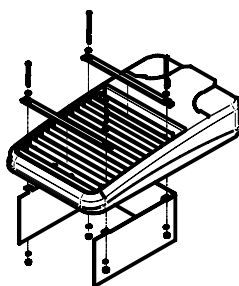
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



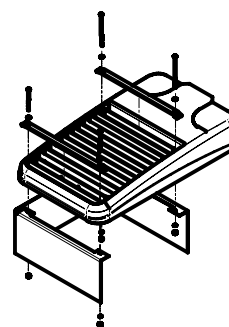
HSS/VP-S/90-FB/XXX
90° shield front or back
(2 shields shown)



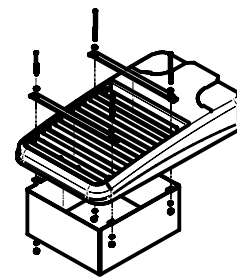
HSS/VP-S/90-LR/XXX
90° shield left or right
(1 shield shown in left orientation)



HSS/VP-S/270-FB/XXX
270° shield front or back
(1 shield shown in back orientation)



HSS/VP-S/270-LR/XXX
270° shield left or right
(1 shield shown in right orientation)



HSS/VP-S/360/XXX
Full shield
(1 shield shown)

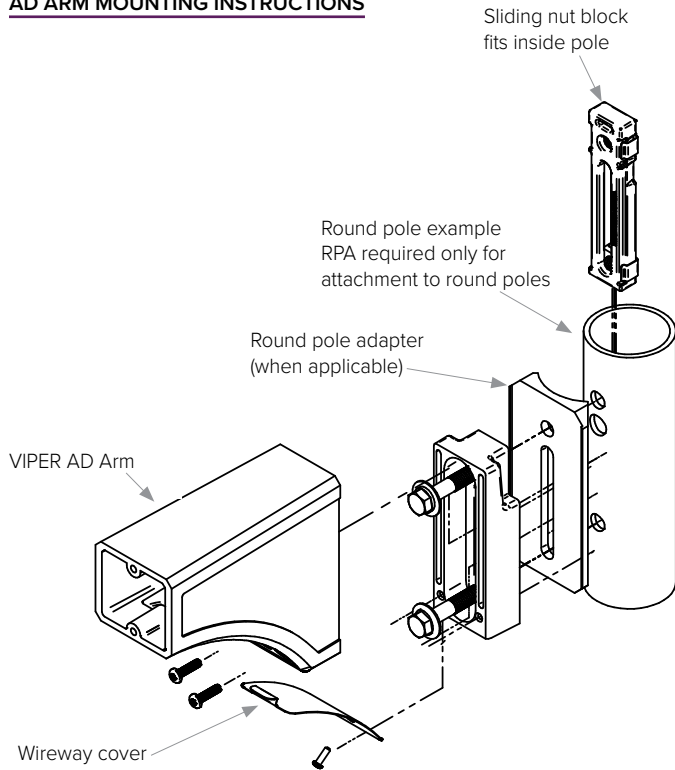
VIPER S

SMALL VIPER LUMINAIRE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

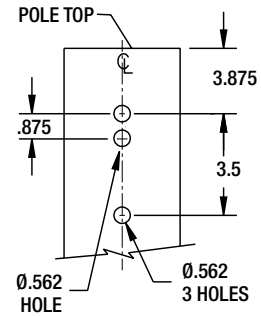
ADDITIONAL INFORMATION (CONTINUED)

AD ARM MOUNTING INSTRUCTIONS



DECORATIVE ARM (AD)

Compatible with pole drill pattern S2



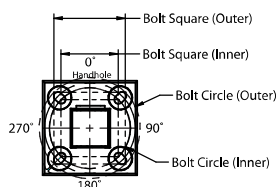
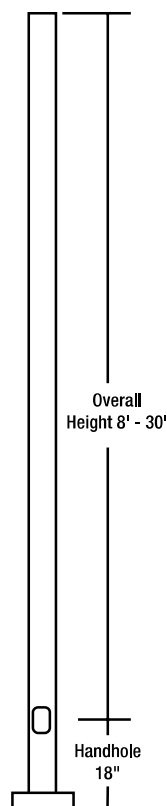
SSA-B SERIES POLES

SQUARE STRAIGHT ALUMINUM

Cat.#	
Job	Type A - POLE



Approvals



APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

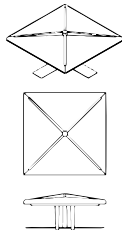
- SHAFT:** One-piece straight aluminum with square cross section, flat sides and minimum radius on all corners; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum.
- BASE COVER:** Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP:** Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HAND HOLE:** Rectangular 3x5 aluminum hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
1 x 36 x 4 — TAB-36-M38

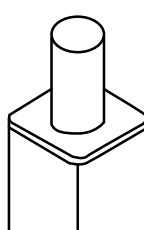
FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in 12 standard colors; Custom colors available; RAL number preferable.

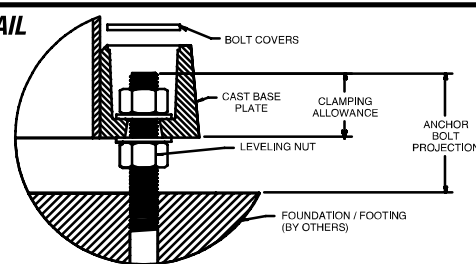
POLE CAP



TENON



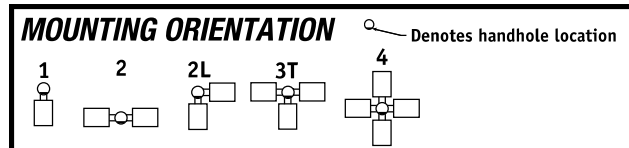
BASE DETAIL



ORDERING EXAMPLE:

SSA-B - **20** - **40** - **A/B/C** - **2L** - **B3** - **DBT** - **VM2**

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	FINISH	OPTIONS
SSA-B Square Straight Aluminum Pole Beacon	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 4 Four fixtures at 90° TA Tenon (2.375" OD) TB Tenon (2.875" OD) OT Open top (includes pole cap)	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Color	GFI 20 Amp GFCI Receptacle and Cover EH Extra Handhole C05 .5" Coupling C07 .75" Coupling C20 2" Coupling VM1 1st mode vibration damper VM2 2nd mode vibration damper LAB Less Anchor Bolts



1 Specify option location using logic found on page 2 (Option Orientation)
2 VM1 recommended on poles 20' and taller with EPA of less than 1.

ACCESSORIES- Order Separately

Catalog Number	Description
VM1	1st mode vibration damper
VM2SXX	2nd mode vibration damper

DRILL PATTERN

- B1** Cruiser, "AM" arm
- B3** 2 bolt (2-1/2" spacing), Viper "A" arm
- S2** 2 bolt (3-1/2" spacing), Viper "AD" arm

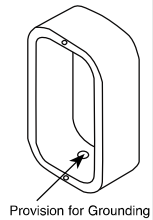


ORDERING INFORMATION Cont.

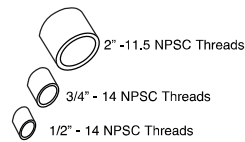
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Circle (range)	Bolt Square (range)	Base Plate Square	Anchor bolt size	Bolt Projection	Pole weight (lbs)
	Feet	Meters									
SSA-B-08-40-A	8	2.4	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	32
SSA-B-10-40-A	10	3.0	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	37
SSA-B-12-40-A	12	3.7	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	42
SSA-B-14-40-A	14	4.3	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	47
SSA-B-16-40-A	16	4.9	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	52
SSA-B-18-40-A	18	5.5	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	57
SSA-B-20-40-A	20	6.1	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	62
SSA-B-16-40-B	16	4.9	4" Square	.188"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	74
SSA-B-18-40-B	18	5.5	4" Square	.188"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	80
SSA-B-20-40-B	20	6.1	4" Square	.188"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	85
SSA-B-18-50-B	18	5.5	5" Square	.188"	10.5"	10.5" - 11.5"	7.42" - 8.13"	10.44 x 2.5"	3/4 x 30 x 3"	3.5"	91
SSA-B-20-50-B	20	6.1	5" Square	.188"	10.5"	10.5" - 11.5"	7.42" - 8.13"	10.44 x 2.5"	3/4 x 30 x 3"	3.5"	107
SSA-B-25-50-B	25	7.6	5" Square	.188"	10.5"	10.5" - 11.5"	7.42" - 8.13"	10.44 x 2.5"	3/4 x 30 x 3"	3.5"	130
SSA-B-16-60-B	16	4.9	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	105
SSA-B-18-60-B	18	5.5	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	130
SSA-B-20-60-B	20	6.1	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	155
SSA-B-25-60-B	25	7.6	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	180
SSA-B-30-60-B	30	9.1	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	210
SSA-B-16-60-C	16	4.9	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	121
SSA-B-18-60-C	18	5.5	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	144
SSA-B-20-60-C	20	6.1	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	166
SSA-B-25-60-C	25	7.6	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	224
SSA-B-30-60-C	30	9.1	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.75"	258

NOTE Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

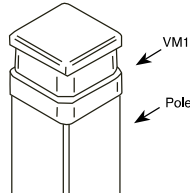
EHH - EXTRA HANDHOLE



C05 - C07 - C20 - COUPLING



VM1 - VIBRATION DAMPER 1ST MODE



Field Installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is required for pole systems 20' and taller with a total EPA of 1.0 or less.

VM2 - VIBRATION DAMPER 2ND MODE



Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

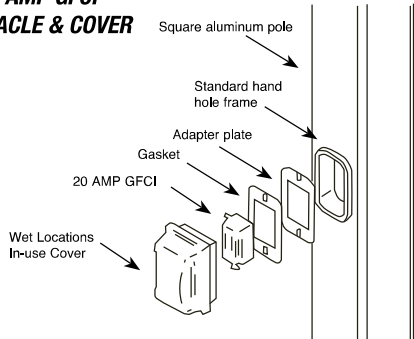
VM2SXX - VIBRATION DAMPER 2ND MODE



VM2S08 - 8'
VM2S12 - 12'
VM2S16 - 16'
VM2S20 - 20'
VM2S24 - 24'

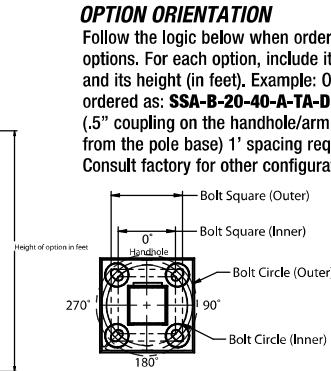
Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI - 20 AMP GFCI RECEPTACLE & COVER



OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: **SSA-B-20-40-A-TA-DB-C05-0-15** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.



For more information about pole vibration and vibration dampers, please consult:

https://hubbellcdn.com/ohwassets/HLI/outdoor/resources/literature/files/Pole_Wind_Induced_Flyer_HL010022.pdf

Due to our continued efforts to improve our products, product specifications are subject to change without notice.



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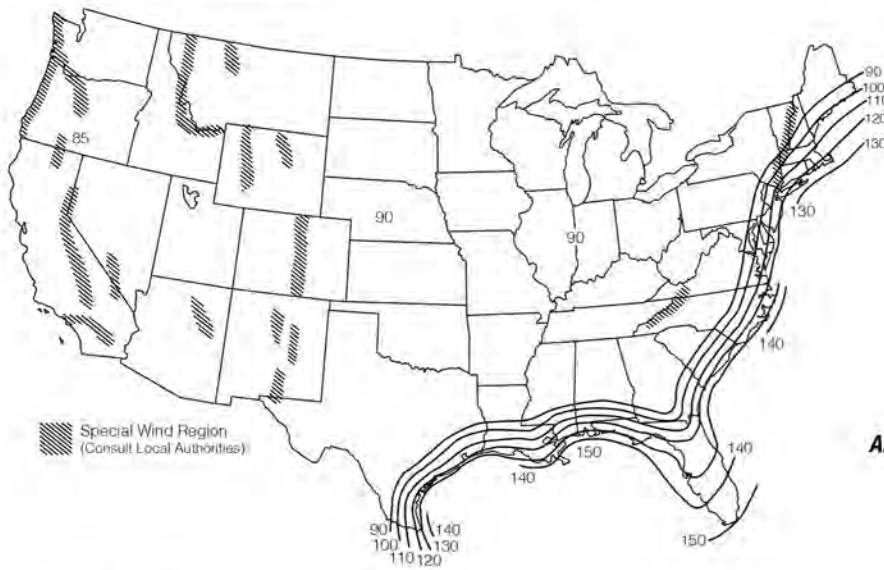
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SSA-B POLES-SPEC

FEBRUARY 24, 2020 3:58 PM

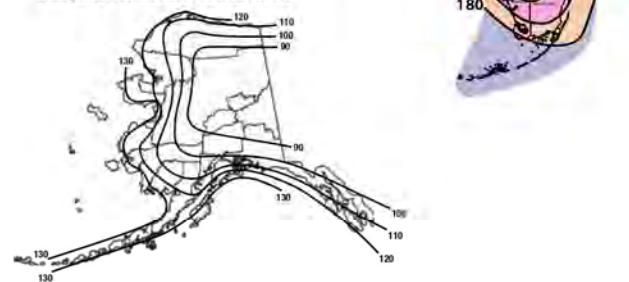


HAWAII – 105 mph
PUERTO RICO – 145 mph

*PRINTED WITH PERMISSION FROM ASCE

- Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds										
Catalog Number	85	90	100	105	110	120	130	140	145	150
SSA-B-08-40-A	17.3	15.2	12.0	10.7	9.6	7.7	6.2	5.0	4.5	4.0
SSA-B-10-40-A	12.6	11.0	8.4	7.4	6.5	4.9	3.7	2.8	2.4	2.0
SSA-B-12-40-A	9.3	7.9	5.8	4.9	4.2	2.9	1.9	1.1	0.8	0.5
SSA-B-14-40-A	6.7	5.6	3.8	3.0	2.4	1.3	NR	NR	NR	NR
SSA-B-16-40-A	4.7	3.7	2.1	1.4	0.9	NR	NR	NR	NR	NR
SSA-B-18-40-A	2.9	2.1	0.6	NR	NR	NR	NR	NR	NR	NR
SSA-B-20-40-A	1.4	0.6	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-40-B	9.2	7.7	5.4	4.5	3.7	2.3	1.2	NR	NR	NR
SSA-B-18-40-B	6.8	5.6	3.6	2.7	2.0	0.8	NR	NR	NR	NR
SSA-B-20-40-B	4.8	3.7	1.9	1.2	0.6	NR	NR	NR	NR	NR
SSA-B-18-50-B	12.9	10.9	7.6	6.3	5.1	3.2	1.7	0.5	NR	NR
SSA-B-20-50-B	9.8	8.1	5.2	4.0	3.0	1.3	NR	NR	NR	NR
SSA-B-25-50-B	4.0	2.7	0.5	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-B	25.0	22.3	16.9	14.7	12.7	9.6	7.0	5.0	4.2	3.4
SSA-B-18-60-B	20.7	17.7	13.0	11.0	9.3	6.5	4.3	2.6	1.8	1.1
SSA-B-20-60-B	16.4	13.8	9.6	7.9	6.4	3.9	2.0	NR	NR	NR
SSA-B-25-60-B	8.3	6.3	3.1	1.8	0.7	NR	NR	NR	NR	NR
SSA-B-30-60-B	2.5	0.8	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-C	25.0	25.0	24.5	21.5	19.0	14.9	11.6	9.0	7.9	6.8
SSA-B-18-60-C	25.0	25.0	19.5	17.1	14.9	11.2	8.3	6.0	5.1	4.2
SSA-B-20-60-C	24.2	20.9	15.4	13.2	11.2	8.0	5.5	3.5	2.6	1.8
SSA-B-25-60-C	14.2	11.6	7.5	5.8	4.3	1.9	NR	NR	NR	NR
SSA-B-30-60-C	7.1	5.0	1.7	NR	NR	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds									
Catalog Number	115	120	130	140	150	160	170	180	
SSA-B-08-40-A	14.8	13.4	11	9.1	7.6	6.3	5.3	4.4	
SSA-B-10-40-A	10.9	9.8	7.9	6.3	5.1	4.1	3.2	2.5	
SSA-B-12-40-A	7.9	7.0	5.4	4.1	3.0	2.2	1.5	0.9	
SSA-B-14-40-A	5.6	4.8	3.4	2.3	1.4	0.6	NR	NR	
SSA-B-16-40-A	3.6	2.9	1.7	0.7	NR	NR	NR	NR	
SSA-B-18-40-A	1.8	1.2	NR	NR	NR	NR	NR	NR	
SSA-B-20-40-A	NR	NR	NR	NR	NR	NR	NR	NR	
SSA-B-16-40-B	7.7	6.7	4.9	3.5	2.4	1.5	0.7	NR	
SSA-B-18-40-B	5.4	4.5	3	1.8	0.8	NR	NR	NR	
SSA-B-20-40-B	3.5	2.7	1.3	NR	NR	NR	NR	NR	
SSA-B-18-50-B	10.6	9.2	6.8	4.9	3.3	2	1	NR	
SSA-B-20-50-B	7.8	6.5	4.4	2.7	1.3	NR	NR	NR	
SSA-B-25-50-B	2.2	1.2	NR	NR	NR	NR	NR	NR	
SSA-B-16-60-B	22	19.6	15.5	12.4	9.8	7.7	5.9	4.4	
SSA-B-18-60-B	17.2	15.2	11.7	8.9	6.6	4.8	3.3	2	
SSA-B-20-60-B	13.4	11.5	8.4	6.4	4	2.4	1	NR	
SSA-B-25-60-B	5.7	4.4	2	NR	NR	NR	NR	NR	
SSA-B-30-60-B	NR	NR	NR	NR	NR	NR	NR	NR	
SSA-B-16-60-C	25	25	22.8	18.6	15.2	12.5	10.1	8.2	
SSA-B-18-60-C	25	22.5	18	14.3	11.3	9	7	5.3	
SSA-B-20-60-C	20.4	18	14	10.8	8.2	6	4.3	2.8	
SSA-B-25-60-C	11.2	9.3	6.2	3.8	1.8	NR	NR	NR	
SSA-B-30-60-C	4.3	2.9	NR	NR	NR	NR	NR	NR	

NOTES

Wind-speed Website disclaimer:

Hubbell Lighting has no connection to the linked website and makes no representations as to its accuracy. While the information presented on this third-party website provides a useful starting point for analyzing wind conditions, Hubbell Lighting has not verified any of the information on this third party website and assumes no responsibility or liability for its accuracy. The material presented in the windspeed website should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. Hubbell Lighting Inc. does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this third party website assume all liability arising from such use. Use of the output of these referenced websites do not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed report. <http://windspeed.atcouncil.org>

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. https://hubbellcdn.com/ohwassets/HLL/outdoor/resources/literature/files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

Type: **B**

Job:

Catalog number:



Approvals:

SL1	/	/	/
Fixture	Electrical Module	Finish	Options
	See page 2		See page 3

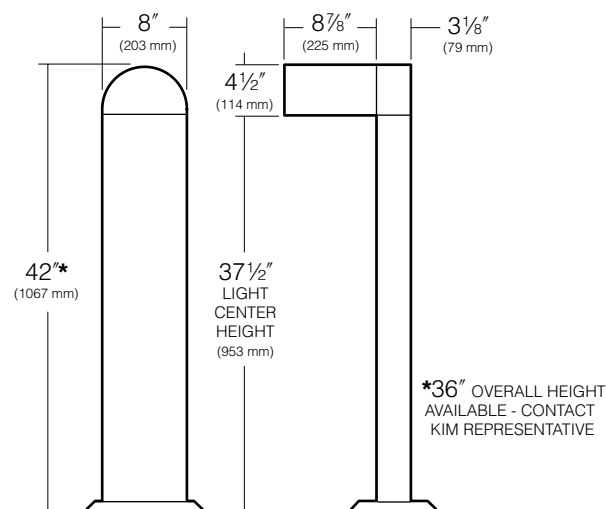
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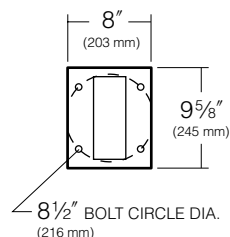
Specifications

SL1 LED

Maximum weight: 37 lb



BASE PLAN SL1



Head: One-piece cast, low-copper (<0.6% Cu) aluminum, 3/16" wall thickness with external reveal unifying head and shaft. Attachment to shaft is by four bolts concealed within the head.

Shaft: One-piece extruded aluminum with internal tracks for attaching head and base.

Base: One-piece cast, low-copper (<0.6% Cu) aluminum secured to shaft by four concealed stainless steel bolts.

Lens: Clear flat 1/8" thick tempered glass retained by two stainless steel brackets, and four stainless steel, hex socket cap screws, fully gasketed.

LED Optical System: A total of 27 mid power LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 version and four (4) modules for 36 version. Available in 580nm Amber, 3000K, 4200K and 5100K color temperatures.

LED Driver: Universal voltage from 120 to 277V with a $\pm 10\%$ tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

Anchor Bolts: Four 3/8" x 10" + 2" zinc plated L-hooks complete with leveling nuts, washers, couplings, rigid pressed board template and black stainless steel bolts.

Finish: Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

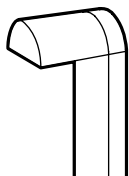
Warranty: For full warranty see <http://www.hubbelllighting.com/resources/warranty>.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Type:

Job:

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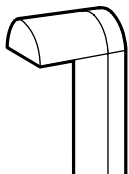
Standard Features

Fixture	Cat. No. SL1 Site Lightforms
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available: xL Source: ☐ 18L = 18 version ☐ 36L = 36 version xK Color Temperature: ☐ 2K = 580nm - Amber ☐ 3K = 3000K ☐ 4K = 4000K ☐ 5K = 5000K UV Voltage: ☐ UV Universal Voltage shall range from 120V-277V
Finish TGIC powder coat paint	Cat. No.: Color: ☐ BLS Black Gloss Smooth ☐ BLT Black Matte Textured ☐ DBS Dark Bronze Gloss Smooth ☐ DBT Dark Bronze Matte Textured ☐ GTT Graphic Matte Textured ☐ LGS Light Grey Gloss Smooth Cat. No.: Color: ☐ LGT Light Grey Matte Textured ☐ PSS Platinum Silver Gloss Smooth ☐ VGT Verde Green Matte Textured ☐ WHS White Gloss Smooth ☐ WHT White Matte Textured ☐ CC² Custom Color ²Custom colors subject to additional charges, minimum quantities and extended lead times.
0-10V Dimming Interface	Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.

Type:

Job:

Page: 3 of 4



Optional Features

Battery Back-up

Cat. No. ☐ **EM**
☐ **No Option**

Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.



battery back-up

Optional Duplex Receptacle

Cat. No. ☐ **DR**
☐ **DR-GFI**
☐ **No Option**

Mounted 18" from bottom of shaft with a gasketed While-In-Use cover with locking tab. Painted to match bollard.

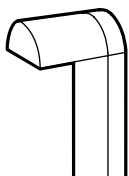
DR weather proof duplex receptacle rated 20A, 125V.

DR-GFI weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.

Type:

Job:

Page: 4 of 4



Lumen Data

Electrical Drive Current					
450mA					
18 Version			36 Version		
Volts - AC	Amps - AC	System Watts	Volts - AC	Amps - AC	System Watts
120	0.22	26	120	0.48	56
208	0.13	26	208	0.27	56
240	0.11	26	240	0.24	56
277	0.09	26	277	0.21	56

B.U.G. Rating for 450mA (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare		
Temperature	18 VERSION	36 VERSION
3000K	B1 U0 G1	B2 U0 G1
4000K	B1 U0 G1	B2 U0 G1
5000K	B1 U0 G1	B2 U0 G1

Absolute Lumens for 450mA		
Temperature	18 VERSION	36 VERSION
3000K	2448	5058
4000K	2511	5188
5000K	2540	5247

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

LTR-4SQD

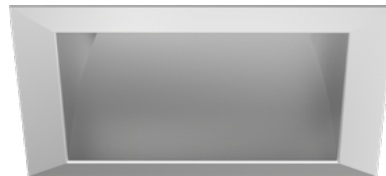
LITEISTRY 4" SQUARE DOWNLIGHT

DATE:	LOCATION:
TYPE: C	PROJECT:
CATALOG #:	

LITEISTRY™

FEATURES

- 4" architectural LED downlight delivering 600 – 4000 lm
- Five beam distributions from 0.4 to 1.2 Spacing Criteria
- Quiet reflector appearance with superior 50° optical cutoff
- 2700K – 5000K, 80+ and 90+ CRI options
- Available in New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, Lutron Forward Phase, and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available



RELATED PRODUCTS

- [LTR-4SQD SpectraSync](#)
- [LTR-4SQDPH PowerHUBB](#)
- [4" LITEISTRY Family](#)

SERVICE PROGRAMS



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC, Chicago Plenum and IC options
- New Construction: Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity four-panel aluminum reflector, self-flanged
- Flush Mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- Chip-on-board (COB) LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >55,000 hours (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0–10V dimming with 1% or < 1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options
- NX or Lutron Vive control options available
- Integral and remote emergency controller and battery pack options available
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm or PowerHUBB™ PoE enabled solutions

INSTALLATION

- Accommodates ceiling thicknesses up to 1.25"
- Universal adjustable mounting brackets also accept ½" EMT conduit or ½" or ¾" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling. EM/EMR: Suitable for damp locations.
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- ENERGY STAR® certified models available. (See list and additional information on [page 8](#).)
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See [Buy American Solutions](#).

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	600–4000
Wattage Range	8–52
Efficacy Range (LPW)	89–99*
Life (Hours)	L90 / >55,000
Input Current (mA)	67–433 (120V)

* Based on Specular, 35K, 80 CRI



LTR-4SQD

LITEISTRY 4" SQUARE DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: LTR-4SQD-H-SL10L-DM1-LTR-4SQD-T-SL35K8MD-SS

CATALOG #

HOUSING

LTR-4SQD-H											
Aperture/Shape/Function	Lumen Package		Lumen Output		Driver Options		Control Options		Voltage	Housing Options	
LTR-4SQD-H 4" Square Downlight New Construction Housing	SL	Standard Lumen	06L	600	DM1	0-10V Dimming to 1%	NXE	NX, Dual SmartPORTs ⁴	Standard 120-277V	CP	Chicago Plenum ^{1,9}
			10L	1000	DM01	0-10V Dimming to < 1%					
			15L	1500	DMX	DMX with RDM dimming to < 0.1% ³					
	ML	Medium Lumen	20L	2000	DALI	DALI Dimming to 1%	NXWE	NX Wireless Enabled ⁴	34 347V ⁸	EM	Emergency Battery Pack with integral test switch and indicator light ¹
			25L	2500	2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) ³					
			30L	3000	EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ³					
	HL	High Lumen	35L	3500			LV	Lutron Vive Enabled, 0-10V (requires 0-10V driver)		EMR	Emergency Battery Pack with remote test switch and indicator light ¹
			40L	4000							
							LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)			
									DTS	Device Transfer Switch with Dimming Bypass ^{1,11}	
								F	Fuse ¹		

TRIM

LTR-4SQD-T					
Aperture/Shape/Function	Lumen Package	CCT	CRI	Distribution	Reflector Finish
LTR-4SQD-T 4" Square Downlight Light Engine/Trim Assembly	SL Standard Lumen	27K 2700K	8 80+CRI	VNR Very Narrow (0.4 SC/23°) ¹²	Finish not applicable with painted reflectors (WC or BC)
	ML Medium Lumen	30K 3000K	9 90+CRI	NR Narrow (0.6 SC/37°)	
	HL High Lumen	35K 3500K		MD Medium (0.8 SC/46°)	
		40K 4000K		WD Wide (1.0 SC/60°)	
		50K 5000K ²		XW Extra Wide (1.2 SC/69°)	
					S Specular
					SS Semi-Specular
					VS Softglow®
					VSS SoftSheen™

TRIM CONTINUED

Reflector Color	Flange Color Options	Lower Trim Options	Reflector Options
Standard Clear	Standard matches reflector color	EM Pre-punched Reflector for Integral Switch	AM Antimicrobial Coating ⁶
CG Champagne Gold	WT White Flange ⁵	FM Flush Mount Mud-in Ring ⁷	
BL Black	BT Black Flange ⁵		
LW Light Wheat			
PW Pewter			
WC Painted White Cone and Flange			
BC Painted Black Cone and Flange			

Accessories

- | | |
|-------------------------------------|--|
| ☐ B24 | Set of two (2) 24" bar hangers for T-bar ceilings |
| ☐ B6 | Set of two bar hangers for ceiling joist up to 24" centers |
| ☐ FMR4-SQ | Flush Mount Flange Mud-In Ring, 4" Square |
| ☐ LiteGear | LiteGear® Inverter, 125VA-250VA |
| ☐ LPS Series | LightPower Micro-Inverter, 20VA-55VA |
| ☐ MOR4-SQ-WH | Metal Oversized Ring, 4" Square, White (8.25" outer dimension) |
| ☐ MOR4-SQ-BL | Metal Oversized Ring, 4" Square, Black (8.25" outer dimension) |

Notes:

- Housing options (except Fuse) not available in combination
- 5000K available in 80+ CRI only
- 2DM, EDM, DMX available in 10L-35L
- NX requires DM1 driver option
- WT not needed for WC; BT not needed for BC.
- AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- Flush Mount Flange (FM) requires FMR accessory (sold separately)
- 347V requires DM1 driver option; not available in 06L or with Controls, F, DTS, GTD, or EMR.
- CP available up to 20L; not available with DMX, Controls, or EMR options
- IC available up to 20L; not available with Control options
- DTS available with DM1, DM01, DALI, or EDM; not available with LVE.
- VNR available up to 30L.



LTR-4SQD

LITEISTRY 4" SQUARE DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ¹
NX Networked – Wireless								
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No ³
NX Networked – Wired/Wireless								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ^{1,3}

1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network

2 Programming via App requires factory assistance

3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Very Narrow	705	8.2	86
		Narrow	796	7.8	102
		Medium	764	7.8	98
		Wide	678	7.8	87
		Extra Wide	643	7.8	82
10L	1000	Very Narrow	1158	12.5	92
		Narrow	1273	12.0	106
		Medium	1222	12.0	102
		Wide	1085	12.0	90
		Extra Wide	1028	12.0	86
15L	1500	Very Narrow	1663	18.0	92
		Narrow	1821	18.6	98
		Medium	1748	18.6	94
		Wide	1552	18.6	83
		Extra Wide	1471	18.6	79
20L	2000	Very Narrow	2090	23.3	90
		Narrow	2237	22.7	99
		Medium	2209	22.7	97
		Wide	2081	22.7	92
		Extra Wide	2026	22.7	89
25L	2500	Very Narrow	2520	29.6	85
		Narrow	3029	27.8	109
		Medium	2907	27.8	105
		Wide	2580	27.8	93
		Extra Wide	2446	27.8	88
30L	3000	Very Narrow	2944	37.0	80
		Narrow	3636	34.6	105
		Medium	3490	34.6	101
		Wide	3097	34.6	90
		Extra Wide	2936	34.6	85

LTR-4SQD

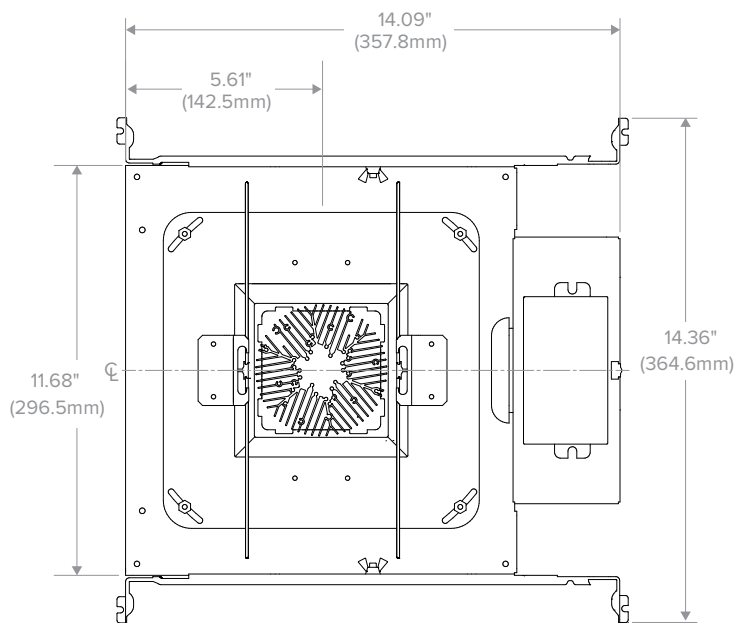
LITEISTRY 4" SQUARE DOWNLIGHT

PERFORMANCE DATA TABLE CONTINUED

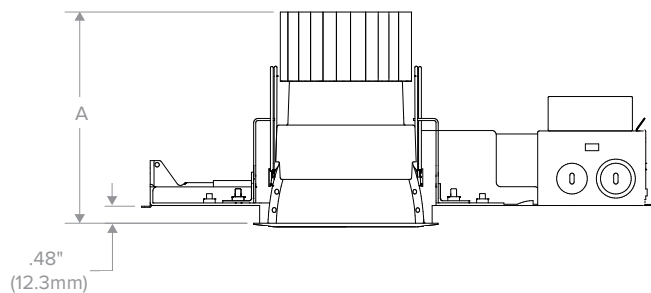
Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
35L	3500	Narrow	4343	42.9	101
		Medium	4169	42.9	97
		Wide	3700	42.9	86
		Extra Wide	3507	42.9	82
40L	4000	Narrow	4957	51.5	96
		Medium	4758	51.5	92
		Wide	4222	51.5	82
		Extra Wide	4003	51.5	78

DIMENSIONS



Top View



Dimensional Data		
Aperture		4.00" (101.6mm) SQ
Flange	Standard	5.25" (133.4mm) SQ
	Flush Mount	4.69" (119.1mm) SQ
Ceiling Cutout	Standard	5.00" (127.0mm) SQ
	Flush Mount	5.00" (127.0mm) SQ
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

Lumen Package	"A"
06L-15L	4.83" (122.7mm)
20L-30L	6.02" (152.9mm)
35L-40L	7.20" (182.9mm)

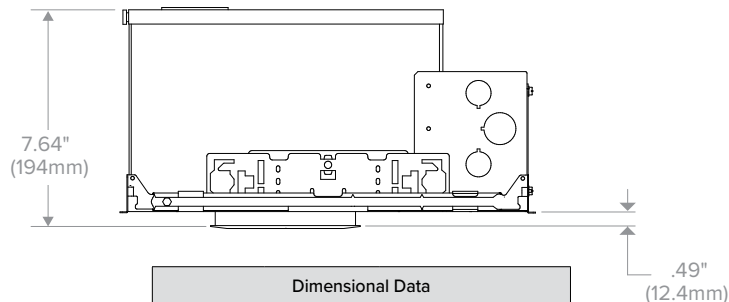
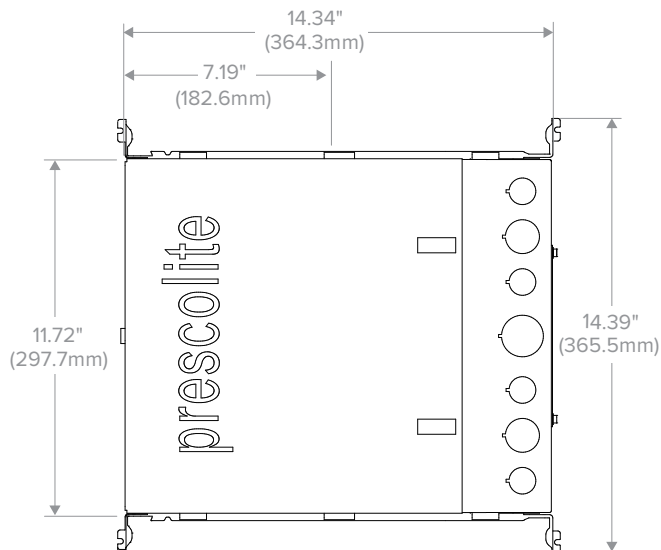
LTR-4SQD-H New Construction



LTR-4SQD

LITEISTRY 4" SQUARE DOWNLIGHT

DIMENSIONS CONTINUED



Dimensional Data		
Aperture		4.00" (101.6mm) SQ
Flange	Standard	5.25" (133.4mm) SQ
	Flush Mount	4.69" (119.1mm) SQ
Ceiling Cutout	Standard	4.75" (120.7mm) SQ
	Flush Mount	5.00" (127.0mm) SQ
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

LTR-4SQD-H IC/CP

PHOTOMETRY

LTR-4SQD-H-ML20L-DM1 / LTR-4SQD-T-ML35K8VNR-S

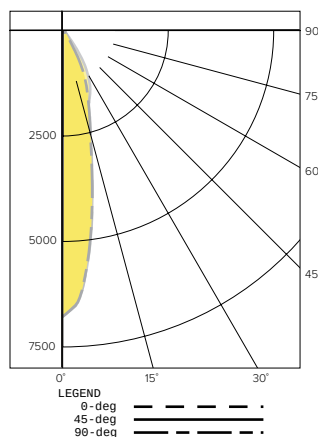
LUMINAIRE DATA

Test No.	20.01214
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	2090
Watts	23.3W
Efficacy	90
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	23

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1994	95.4
0-60	2083	99.6
0-90	2090	100.0
0-180	2090	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	6726	6726	6726
5	5842	5834	5819
15	2473	2412	2440
25	1158	1490	1150
35	199	626	199
45	110	133	110
55	17	21	17
65	5	5	4
75	2	2	2
85	0	0	0
90	0	0	0

PHOTOMETRY CONTINUED

LTR-4SQD-H-ML20L-DM1 / LTR-4SQD-T-ML35K8NRS

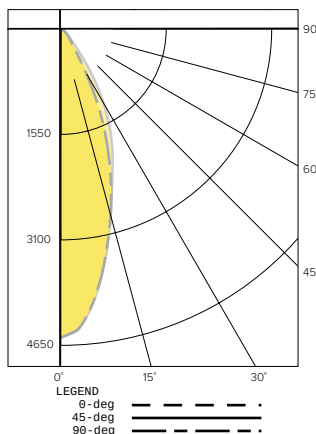
LUMINAIRE DATA

Test No.	P19.00949
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2237
Watts	22.7W
Efficacy	98.7
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	37

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2103	94.0
0-60	2227	99.6
0-90	2237	100.0
0-180	2237	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	4527	4527	4527
5	4233	4235	4231
15	2801	2791	2788
25	1321	1711	1318
35	282	655	283
45	110	133	110
55	23	30	24
65	5	6	5
75	2	2	2
85	1	1	1
90	0	0	0

LTR-4SQD-H-ML20L-DM1 / LTR-4SQD-T-ML35K8MDS

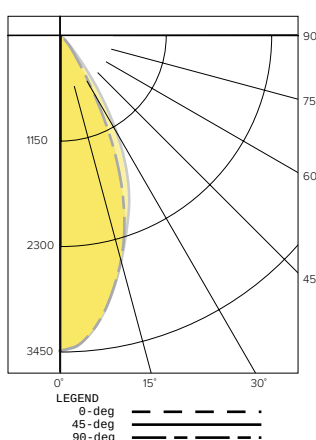
LUMINAIRE DATA

Test No.	P19.00950
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	2209
Watts	22.7W
Efficacy	97.4
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	46

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2056	93.1
0-60	2199	99.6
0-90	2209	100.0
0-180	2209	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	3435	3435	3435
5	3305	3309	3307
15	2550	2565	2556
25	1414	1761	1424
35	365	739	371
45	123	155	124
55	26	34	26
65	6	6	5
75	2	3	2
85	1	1	1
90	0	0	0

LTR-4SQD-H-ML20L-DM1 / LTR-4SQD-T-ML35K8WDS

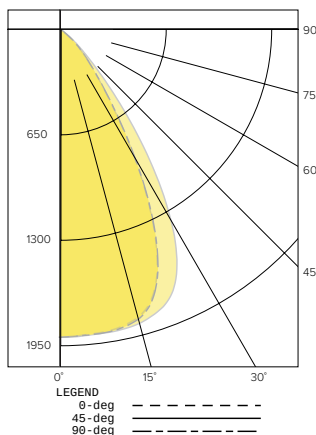
LUMINAIRE DATA

Test No.	P19.01045
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	2081
Watts	22.7W
Efficacy	91.8
Mounting	Recessed
Spacing Criterion	1.0
Beam Angle (FWHM)	60

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1846	96.3
0-60	2068	99.8
0-90	2081	100.0
0-180	2081	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1906	1906	1906
5	1897	1902	1900
15	1850	1887	1861
25	1392	1702	1403
35	549	939	558
45	190	257	192
55	38	52	39
65	7	8	7
75	3	3	3
85	1	1	1
90	0	0	0

PHOTOMETRY CONTINUED

LTR-4SQD-H-ML20L-DM1 / LTR-4SQD-T-ML35K8XWS

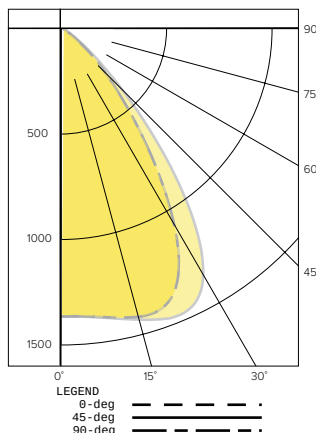
LUMINAIRE DATA

Test No.	P19.00952
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	2026
Watts	22.7W
Efficacy	89.2
Mounting	Recessed
Spacing Criterion	1.2
Beam Angle (FWHM)	69

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1699	83.9
0-60	2012	99.3
0-90	2026	100.0
0-180	2026	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1368	1368	1368
5	1373	1375	1373
15	1418	1432	1417
25	1304	1458	1301
35	741	1064	738
45	271	376	271
55	48	73	49
65	8	9	8
75	3	3	3
85	1	1	1
90	0	0	0

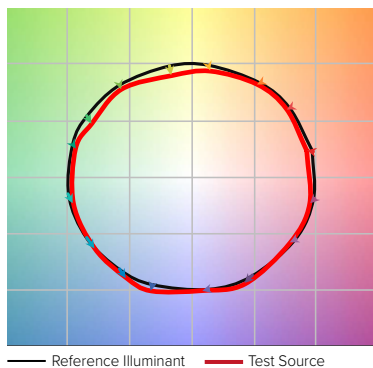
LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

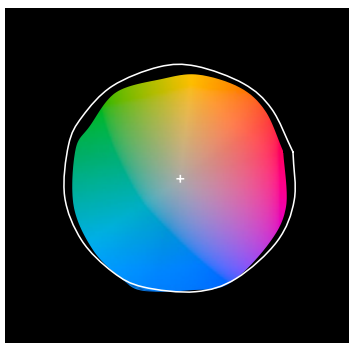
Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

TM-30 DATA

**COLOR VECTOR GRAPHIC
3500K, 90 CRI**

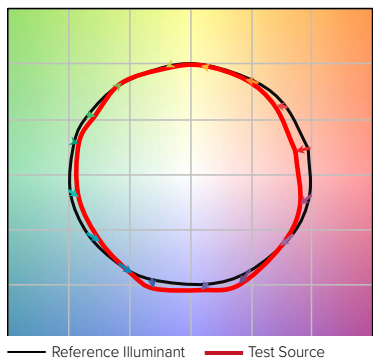


**COLOR DISTORTION GRAPHIC
3500K, 90 CRI**



TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R _f	84	88
R _g	95	95
CCT (K)	3411	3419
D _{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R _a	84	93
CIE R _g	11	62

**COLOR VECTOR GRAPHIC
3500K, 80 CRI**



**COLOR DISTORTION GRAPHIC
3500K, 80 CRI**





LTR-4SQD

LITEISTRY 4" SQUARE DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	347 V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A

* Values for DM1 option shown, values for other dimming options may vary.

WATTAGE DATA		
Lumen Output	Nominal Lumens	WATTAGE
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43
40L	4000	52

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1 /DM01	Lutron DVTV	http://bit.ly/11jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAI
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

See instruction sheet on www.prescolite.com for connection & installation information.

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

LPS Series: www.dual-lite.com/products/lps

ENERGY STAR® Certified Models

For a list of certified models, click on the ENERGY STAR® MODELS link or visit www.energystar.gov.

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

FEATURES

- For ceiling mount and parking garage applications from an 8–15 foot mounting height
- Edge-lit flat lens for optimal visual comfort and uniformity across the lens
- Two optical distributions specifically design for parking garage and canopy applications are available making the Beacon Edge-Lit luminaire both versatile and functional
- UL/cUL listed for wet locations, IP65 and 3G vibration rated
- Occupancy sensor available for complete on/off and dimming operation



See Certification Specifications

SPECIFICATIONS

HOUSING

- Die-cast aluminum housing ensures long electrical component life and luminaire performance
- Corrosion resistant powder coat finish both protects and provides architectural appearance
- One piece molded silicone gasket ensures weather proof seal
- Thermally isolated driver mounted to dedicated bracket reduces operating temperatures and increases driver life and reliability

OPTICS

- Edge-lit acrylic light guide provides blended non-pixelated light for unprecedented visual comfort
- Choice of multiple light outputs with lumen range of 2000–6000
- Two distribution types: Type 5 Square Wide, Type 5 Concentrated
- Wide variety of CCT's and CR's offered: 3000K (70CR), 3000K (80CR), 3500K (80CR), 4000K (70CR), 4000K (80CR) or 5000K (70 CR) CCT

ELECTRICAL

- 120V–277V 50/60Hz available
- 0–10V dimming drivers are RoHS compliant
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 24" standard

INSTALLATION

- Standard quick mount plate over standard 4" junction box or octagonal junction box and allows for simplified fixture installation
- Standard luminaire accepts a rigid or 3/4" NPT stem for pendant mounting via wet location J-box (by others)
- Optional bird deterrent shield available for field installation

OPTIONS/CONTROLS

- Standard occupancy sensor available for on/off or dimming operation
- Uplight option: provides approximately 800 lumens and consumes only 8 additional watts
- Vandal resistant wire guard available as an option for factory installation or as an accessory for field installation
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application



RELATED PRODUCTS

- [Drive Edge-Lit SRT2](#)
[Orbeon](#)
[Viper Small](#)

CERTIFICATIONS

- Listed to UL1598 for Use in wet location, listed for -40°C to 40°C applications
- DA approved with zero uplight for 3000K and warmer CCTs
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials Under Trade Agreements effective 04/23/2020. See Buy American Solutions
- P65

WARRANTY

- 5 year warranty
- See [Full Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	2000–6800
Wattage Range	15–55W
Efficacy Range (LPW)	99–118
Reported Life (Hours)	50K
Weight lbs. (kg)	8 (3.6)



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

ORDERING GUIDE

Example: SRT1-35-3K7-5QW-UNV-BLT-WG

CATALOG #

Series	Engine	CCT	Distribution	Voltage	Color/Finish	Options
SRT1 Edge-Lit Parking Garage Size 1	15 15W Nominal 2000 lm 20 20W Nominal 2500 lm 35 35W Nominal 4500 lm 55 55W Nominal 6500 lm	3K7 3000K, 70 CRI 3K8 3000K, 80 CRI 35K8 3500K, 80 CRI 4K7 4000K, 70 CRI 4K8 4000K, 80 CRI 5K7 5000K, 70 CRI	5QW Type 5 Square Wide 5C Type 5 Concentrated	UNV 120V-277V 120 120V 208 208V 240 240V 277 277V	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Colors	WG Wire Guard UD Uplight Module ³ F Single Fuse (120, 277) LD3 36" Lead Length ² LD6 72" Lead Length ² LD9 108" Lead Length ² SP10K 10kA Surge Protection ³ LMB Less Mounting Bracket

Control Options

NX Standalone

NXOS12F NX Distributed Intelligence™, PIR Occ. Sensor, Dimming Daylight Harvesting, up to 12' MH

Sensor Controls

SCP-8F Remote control programmable line voltage sensor (8-12' recommended mounting height)⁴

SCP-20F Remote control programmable line voltage sensor (12-20' recommended mounting height)⁴

Notes:

- 1 Must specify voltage
- 2 Standard wire lead length 24"
- 3 SP10K or NXOS12F not available with uplight (UD)
- 4 120V or 277V only

Accessories (Order Separately)

- | | | |
|-------------------------------------|--------------------|--|
| ☒ | SRT1-WG | Wire Guard |
| ☒ | SRT-MB | Mounting bracket for pre-installation |
| ☒ | SRT1-BS-XXX | Bird deterrent shroud for SRT1 version; not available with uplight |
| ☒ | SCP-REMOTE | Remote control for SCP option; order at least one per project to program and control |

PERFORMANCE DATA

Nominal Watts	Nominal Lumens	Distribution	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
15	2500	5C	2470	146.61	1	0	1	2459	145.91	1	0	1	2364	140.30	1	0	1
		5QW	2378	141.15	1	0	1	2367	140.48	1	0	1	2276	135.07	1	0	1
20	3000	5C	3093	136.86	1	0	1	3078	136.21	1	0	1	2960	130.97	1	0	1
		5QW	2974	131.60	1	0	1	2960	130.97	1	0	1	2846	125.93	1	0	1
35	4500	5C	4757	131.05	2	0	1	4734	130.42	2	0	1	4552	125.41	2	0	1
		5QW	4574	126.01	2	0	1	4552	125.41	2	0	1	4377	120.58	2	0	1
55	6500	5C	6814	127.13	2	0	1	6782	126.52	2	0	1	6521	121.66	2	0	1
		5QW	6552	122.24	3	0	1	6521	121.66	3	0	1	6270	116.98	3	0	1

ELECTRICAL DATA

Nominal Watts	System Watts	Line Voltage		AMPS AC				Dimming Range	Absolute Voltage Range on 0-10V (+)	
		VAC	HZ	120	208	240	277		VAC	HZ
15	16.9	120-277	50/60	0.14	0.08	0.07	0.06	10% to 100%	0V	10V
20	21.6	120-277	50/60	0.18	0.10	0.09	0.08	10% to 100%	0V	10V
35	34.6	120-277	50/60	0.29	0.17	0.14	0.12	10% to 100%	0V	10V
55	54.9	120-277	50/60	0.46	0.26	0.23	0.20	10% to 100%	0V	10V

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

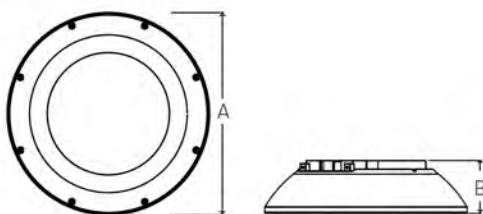
PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L ₇₀ (Hours)
25°C / 77°F	1.00	0.98	0.96	0.95	0.89	278,000
40°C / 104°F	0.99	0.98	0.96	0.94	0.88	264,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

DIMENSIONS



A	B	Weight
12" (304mm)	3.1" (78mm)	8 lbs (3.6kg)

ADDITIONAL INFORMATION

FINISH OPTIONS



DB Dark Bronze Textured



BL Black Textured



PS Platinum Silver Smooth



GYS Gray Smooth



WH White Textured



GT Graphite Textured



Wire Guard

An optional wire guard can be specified at the factory or as an accessory for field installation.



Bird Deterrent

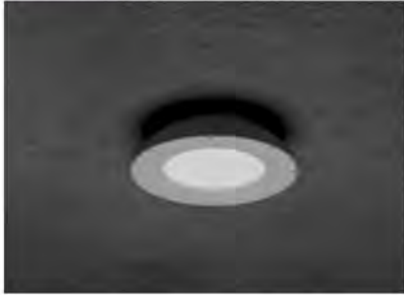
An optional bird shroud deterrent can be specified at the factory or as an accessory for field installation.

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

ADDITIONAL INFORMATION (CONT'D)

MOUNTING



Surface Mount

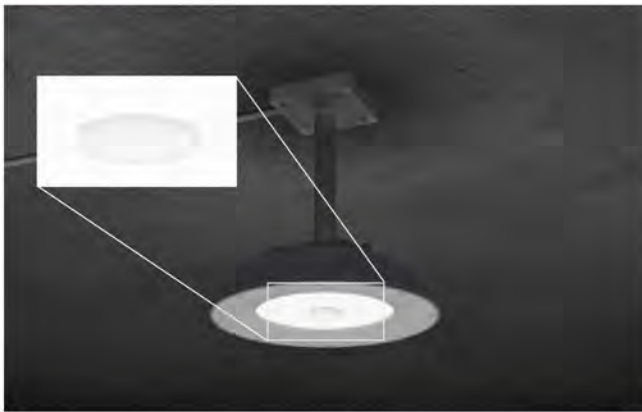
Mounting plate with "quick mount" hanger for one person simple installation.



Pendant Mount

Standard 3/4" threaded entry for pendant applications.

CONTROLS



Standalone Controls

Optional passive infrared sensors are available for basic occupancy and daylight sensing. Programmable via remote or Bluetooth® phone app.

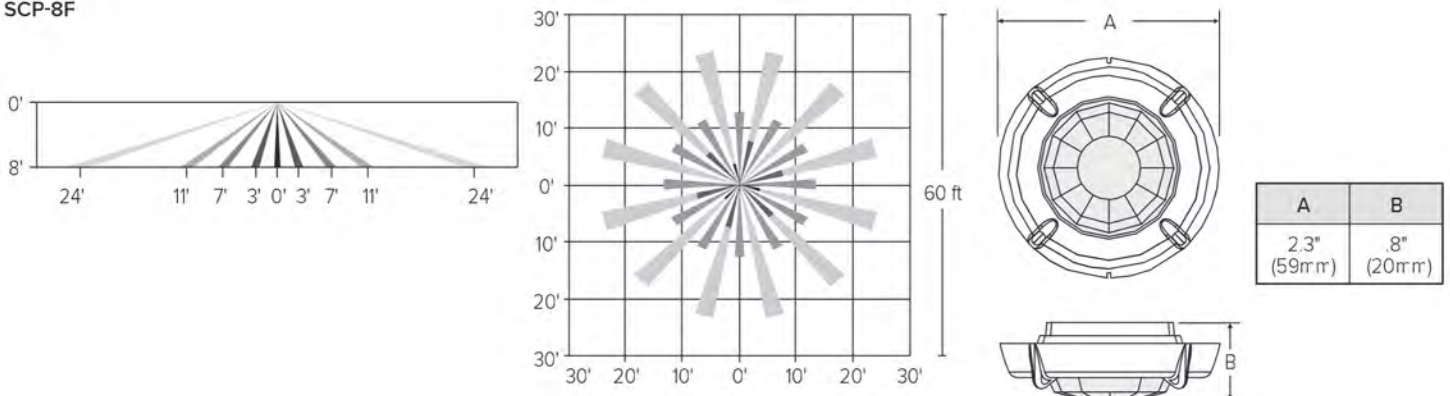


Uplight

Optional uplight module provides 800 lumens of indirect illumination for improved visual quality while eliminating cave effect.



SCP-8F



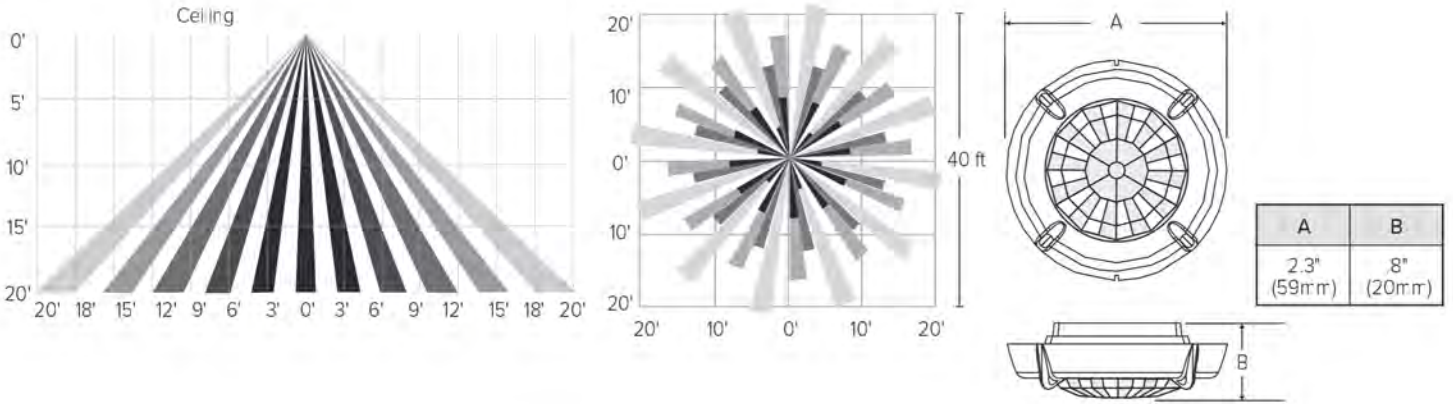
SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

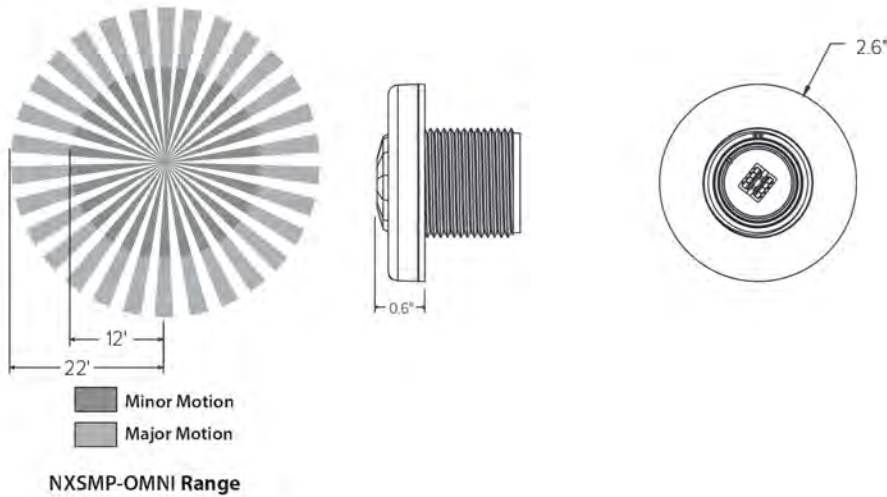
ADDITIONAL INFORMATION (CONT'D)

CONTROLS (CONT'D)

SCP-20F



NXOS12F



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SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

FEATURES

- For ceiling mount and parking garage applications from an 8–15 foot mounting height
- Edge-lit flat lens for optimal visual comfort and uniformity across the lens
- Two optical distributions specifically design for parking garage and canopy applications are available making the Beacon Edge-Lit luminaire both versatile and functional
- UL/cUL listed for wet locations, IP65 and 3G vibration rated
- Occupancy sensor available for complete on/off and dimming operation



See Certification Specifications



RELATED PRODUCTS

[Drive Edge-Lit SRT2](#)
[Orbeon](#)
[Viper Small](#)

SPECIFICATIONS

HOUSING

- Die-cast aluminum housing ensures long electrical component life and luminaire performance
- Corrosion resistant powder coat finish both protects and provides architectural appearance
- One piece molded silicone gasket ensures weather proof seal
- Thermally isolated driver mounted to dedicated bracket reduces operating temperatures and increases driver life and reliability

OPTICS

- Edge-lit acrylic light guide provides blended non-pixelated light for unprecedented visual comfort
- Choice of multiple light outputs with lumen range of 2000–6000
- Two distribution types: Type 5 Square Wide, Type 5 Concentrated
- Wide variety of CCT's and CR's offered: 3000K (70CR), 3000K (80CR), 3500K (80CR), 4000K (70CR), 4000K (80CR) or 5000K (70 CR) CCT

ELECTRICAL

- 120V–277V 50/60Hz available
- 0–10V dimming drivers are RoHS compliant
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 24" standard

INSTALLATION

- Standard quick mount plate over standard 4" junction box or octagonal junction box and allows for simplified fixture installation
- Standard luminaire accepts a rigid or 3/4" NPT stem for pendant mounting via wet location j-box (by others)
- Optional bird deterrent shield available for field installation

OPTIONS/CONTROLS

- Standard occupancy sensor available for on/off or dimming operation
- Uplight option: provides approximately 800 lumens and consumes only 8 additional watts
- Vandal resistant wire guard available as an option for factory installation or as an accessory for field installation
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application

CERTIFICATIONS

- Listed to UL1598 for Use in wet location, listed for -40°C to 40°C applications
- DA approved with zero uplight for 3000K and warmer CCTs
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials Under Trade Agreements effective 04/23/2020. See Buy American Solutions
- P65

WARRANTY

- 5 year warranty
- See [Full Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	2000–6800
Wattage Range	15–55W
Efficacy Range (LPW)	99–118
Reported Life (Hours)	50K
Weight lbs. (kg)	8 (3.6)



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

ORDERING GUIDE

Example: SRT1-35-3K7-5QW-UNV-BLT-WG

CATALOG #

Series	Engine	CCT	Distribution	Voltage	Color/Finish	Options
SRT1 Edge-Lit Parking Garage Size 1	15 15W Nominal 2000 lm 20 20W Nominal 2500 lm 35 35W Nominal 4500 lm 55 55W Nominal 6500 lm	3K7 3000K, 70 CRI 3K8 3000K, 80 CRI 35K8 3500K, 80 CRI 4K7 4000K, 70 CRI 4K8 4000K, 80 CRI 5K7 5000K, 70 CRI	5QW Type 5 Square Wide 5C Type 5 Concentrated	UNV 120V-277V 120 120V 208 208V 240 240V 277 277V	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Colors	WG Wire Guard UD Uplight Module ³ F Single Fuse (120, 277) LD3 36" Lead Length ² LD6 72" Lead Length ² LD9 108" Lead Length ² SP10K 10kA Surge Protection ³ LMB Less Mounting Bracket

Control Options	
NX Standalone	
NXOS12F	NX Distributed Intelligence™, PIR Occ. Sensor, Dimming Daylight Harvesting, up to 12' MH
Sensor Controls	
SCP-8F	Remote control programmable line voltage sensor (8-12' recommended mounting height) ⁴
SCP-20F	Remote control programmable line voltage sensor (12-20' recommended mounting height) ⁴

Accessories (Order Separately)	
☒	SRT1-WG Wire Guard
☒	SRT-MB Mounting bracket for pre-installation
☒	SRT1-BS-XXX Bird deterrent shroud for SRT1 version; not available with uplight
☒	SCP-REMOTE Remote control for SCP option; order at least one per project to program and control

Notes:

- 1 Must specify voltage
- 2 Standard wire lead length 24"
- 3 SP10K or NXOS12F not available with uplight (UD)
- 4 120V or 277V only

PERFORMANCE DATA

Nominal Watts	Nominal Lumens	Distribution	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
15	2500	5C	2470	146.61	1	0	1	2459	145.91	1	0	1	2364	140.30	1	0	1
		5QW	2378	141.15	1	0	1	2367	140.48	1	0	1	2276	135.07	1	0	1
20	3000	5C	3093	136.86	1	0	1	3078	136.21	1	0	1	2960	130.97	1	0	1
		5QW	2974	131.60	1	0	1	2960	130.97	1	0	1	2846	125.93	1	0	1
35	4500	5C	4757	131.05	2	0	1	4734	130.42	2	0	1	4552	125.41	2	0	1
		5QW	4574	126.01	2	0	1	4552	125.41	2	0	1	4377	120.58	2	0	1
55	6500	5C	6814	127.13	2	0	1	6782	126.52	2	0	1	6521	121.66	2	0	1
		5QW	6552	122.24	3	0	1	6521	121.66	3	0	1	6270	116.98	3	0	1

ELECTRICAL DATA

Nominal Watts	System Watts	Line Voltage		AMPS AC				Dimming Range	Absolute Voltage Range on 0-10V (+)	
		VAC	HZ	120	208	240	277		VAC	HZ
15	16.9	120-277	50/60	0.14	0.08	0.07	0.06	10% to 100%	0V	10V
20	21.6	120-277	50/60	0.18	0.10	0.09	0.08	10% to 100%	0V	10V
35	34.6	120-277	50/60	0.29	0.17	0.14	0.12	10% to 100%	0V	10V
55	54.9	120-277	50/60	0.46	0.26	0.23	0.20	10% to 100%	0V	10V

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

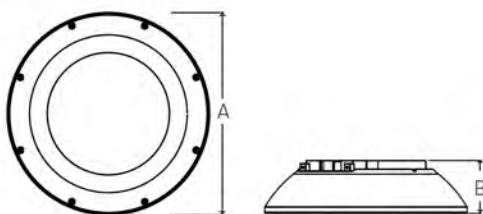
PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L ₇₀ (Hours)
25°C / 77°F	1.00	0.98	0.96	0.95	0.89	278,000
40°C / 104°F	0.99	0.98	0.96	0.94	0.88	264,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

DIMENSIONS



A	B	Weight
12" (304mm)	3.1" (78mm)	8 lbs (3.6kg)

ADDITIONAL INFORMATION

FINISH OPTIONS



DB Dark Bronze Textured



BL Black Textured



PS Platinum Silver Smooth



GYS Gray Smooth



WH White Textured



GT Graphite Textured



Wire Guard

An optional wire guard can be specified at the factory or as an accessory for field installation.



Bird Deterrent

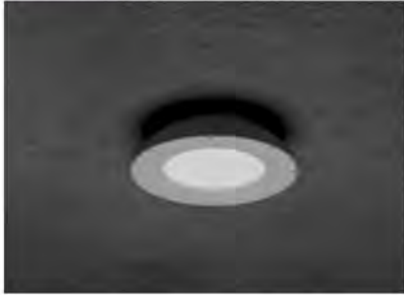
An optional bird shroud deterrent can be specified at the factory or as an accessory for field installation.

SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

ADDITIONAL INFORMATION (CONT'D)

MOUNTING



Surface Mount

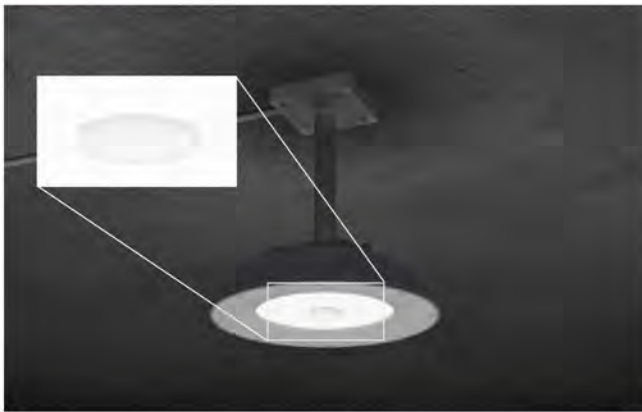
Mounting plate with "quick mount" hanger for one person simple installation.



Pendant Mount

Standard 3/4" threaded entry for pendant applications.

CONTROLS



Standalone Controls

Optional passive infrared sensors are available for basic occupancy and daylight sensing. Programmable via remote or Bluetooth® phone app.

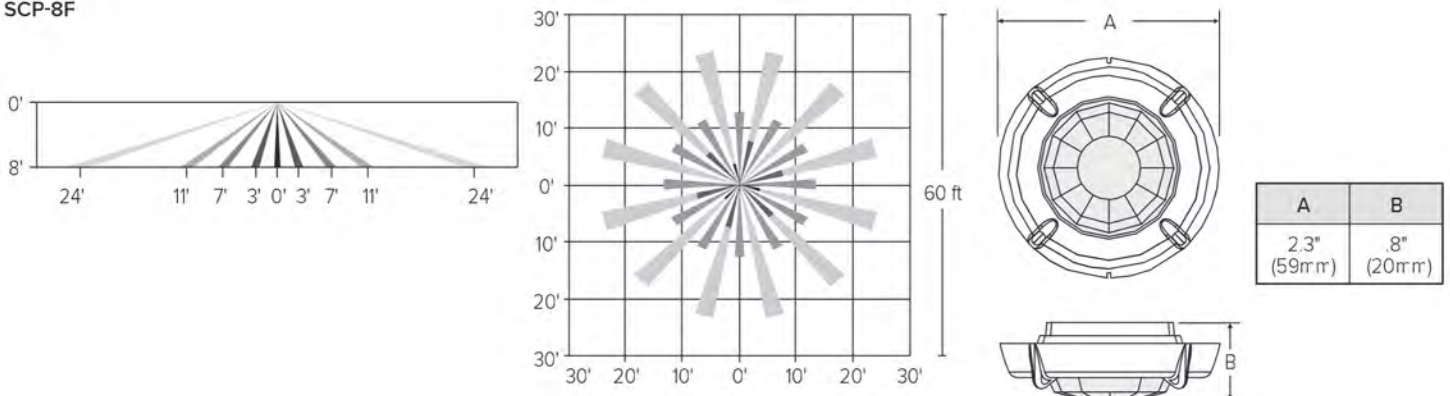


Uplight

Optional uplight module provides 800 lumens of indirect illumination for improved visual quality while eliminating cave effect.



SCP-8F



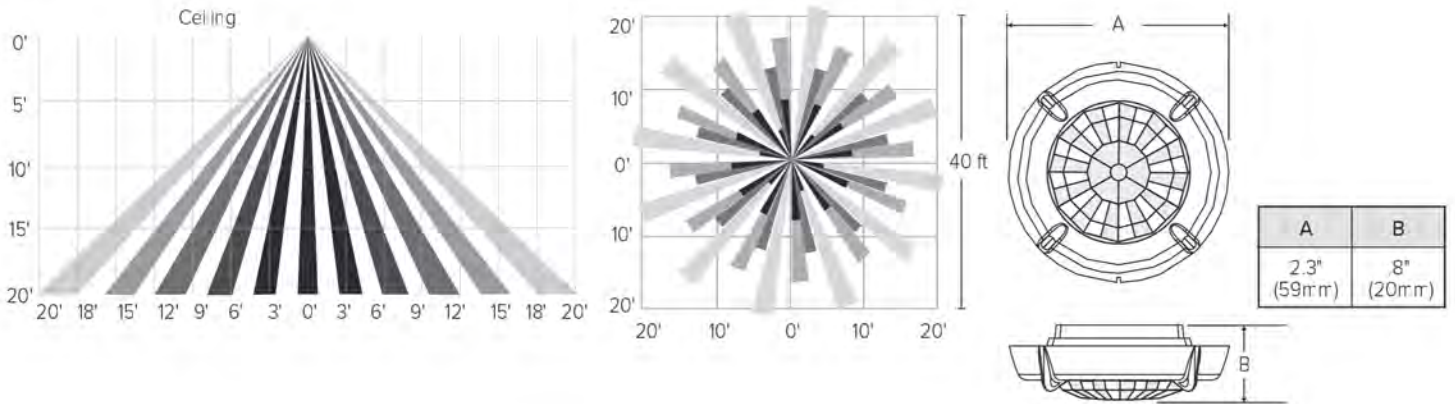
SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

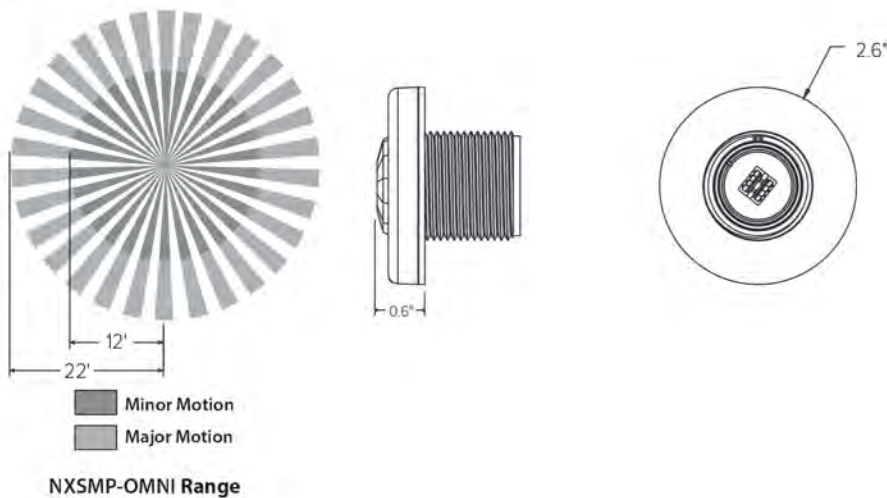
ADDITIONAL INFORMATION (CONT'D)

CONTROLS (CONT'D)

SCP-20F



NXOS12F



USE OF TRADEMARKS AND TRADE NAMES

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ATTACHMENT 3:

CERTAINTEED SIDING INFORMATION

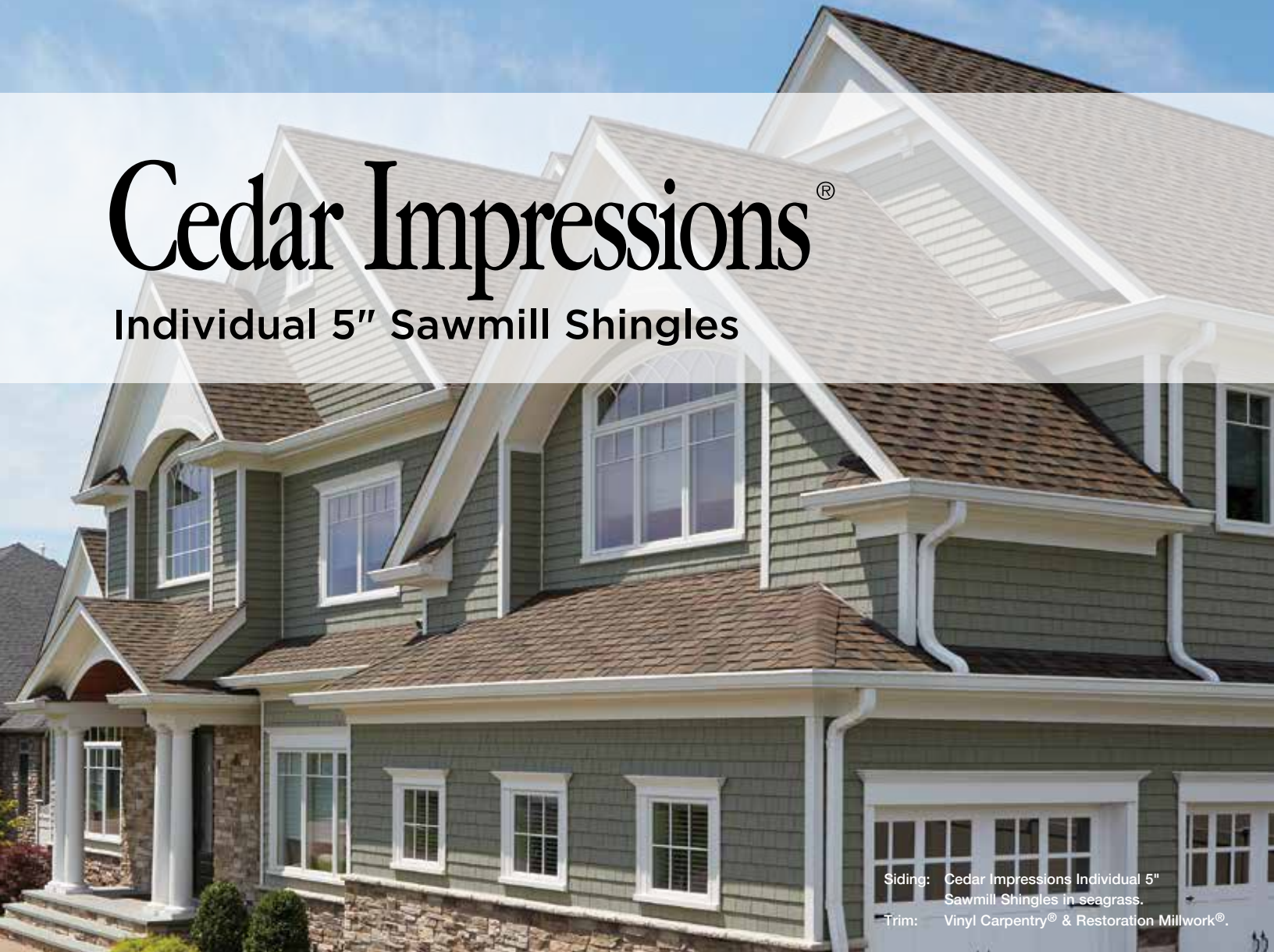


**CIVIL
CONSULTANTS**

P.O. Box 100 South Berwick, Maine 03908 207-384-2550

Cedar Impressions®

Individual 5" Sawmill Shingles



Siding: Cedar Impressions Individual 5"
Sawmill Shingles in seagrass.
Trim: Vinyl Carpentry® & Restoration Millwork®.

Sterling Gray

Seagrass

Natural Clay

Savannah Wicker

Colonial White

Capture the beauty of painted sawmill cedar.

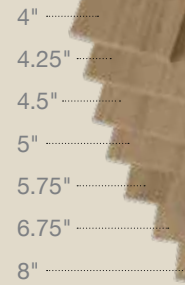
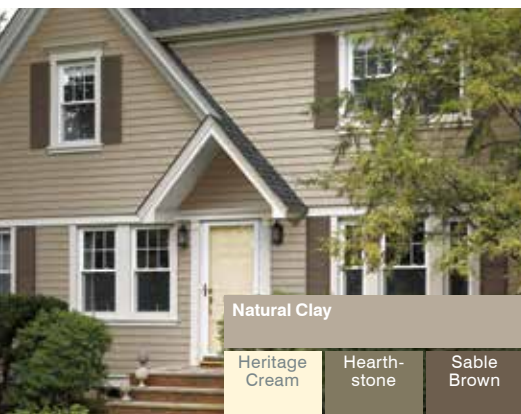
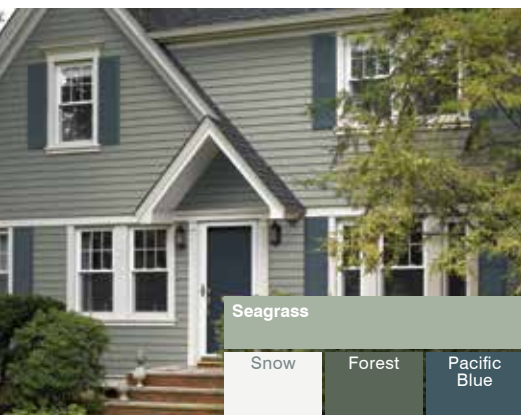
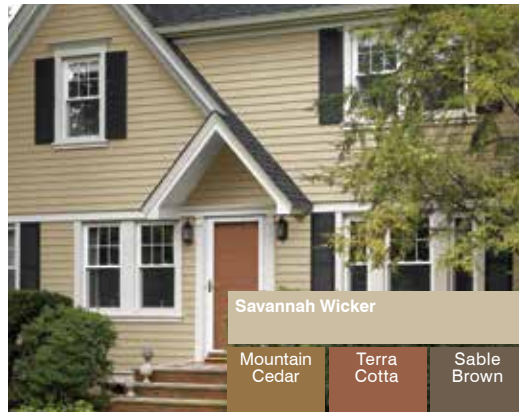
Cedar Impressions Individual 5" Sawmill Shingles are now available in five long-lasting solid colors that have the look of freshly painted cedar. Unlike real cedar, Cedar Impressions shingles will never require painting or maintenance due to chipping paint.

The industry's first polymer product manufactured as a single shingle, Cedar Impressions Individual 5" Sawmill Shingles come in 7 widths as well as 16 unique and authentic sawmill textures which are molded from actual cedar shingles. Freedom of design is provided through the ability to create one-of-a-kind designs with random textures and widths.

CertainTeed
SAINT-GOBAIN

Designing with Color

All solid colors coordinate well with CertainTeed's decorative trim colors to create high contrast or subtle trim accents. CertainTeed can help you reach your design goal. Below are a few examples of complementary accent colors.



7 Shingle widths

All Cedar Impressions 5" Individual Sawmill Shingles come in seven different widths which allow for random installation and one-of-a-kind designs.

Trimmable Corner

Cedar Impressions Individual 5" Sawmill trimmable corner pieces help corners blend naturally.



Color Blends

Cedar Impressions Individual 5" Sawmill Shingles are also available in Ageless Cedar™ Color Blends that honor the natural aging process of cedar by offering four color families – and a progression of shades within each – that replicate the authentic appearance of cedar at different life stages.



* Premium Color



CertainTeed Corporation

CEILINGS • DECKING • FENCE • GYPSUM • INSULATION • RAILING • ROOFING • SIDING • TRIM

20 Moores Road Malvern, PA 19355 Professional: 800-233-8990 Consumer: 800-782-8777 certainteed.com



WHAT IS POLYMER SIDING?



Polymer siding is made from polypropylene resin. The typical application for this kind of siding is shake and shingle cladding with a cedar pattern, which can be used as a whole-house application or in accent areas.

Polymer siding utilizes an injection molding process that enables the final product to have a highly defined three-dimensional pattern in a variety of styles, sizes and colors. The product mold is precisely shaped to give it the exact dimensions needed and incorporates any other necessary configurational details, such as ribbing on the back for extra stability. The molten compound is injected into the mold, which is heated to a high temperature. Upon completion of this step the piece is finished, and then it cools down. Injection molded siding began to enter the market in the mid 1990s and has grown steadily in popularity ever since as processes improved, styles enhanced and color options expanded.

CertainTeed offers seven types of polymer siding under our Cedar Impressions® product category. Cedar Impressions include perfections shingles, rough-split shakes, half-round shingles and our new individual 5" sawmill shingle to round out a complete offering. These distinctive polymer siding panels are available in up to 31 low-gloss colors with a wide variety of coordinating trim.

Related Products:



[CEDAR IMPRESSIONS® DOUBLE 7" STRAIGHT EDGE ROUGH-SPLIT SHAKES](#)



[CEDAR IMPRESSIONS® DOUBLE 9" STAGGERED ROUGH-SPLIT SHAKES](#)

Cedar Impressions®

Perfection, Shapes, Sawmill Shingles & Rough-Split Shakes Polymer Siding

General Description: Cedar Impressions® D7" Straight Edge and Staggered Edge, S7" Straight Edge, Individual and T5" Sawmill Shingles, D7" and D9" Rough-Split Shakes, and S6-1/3" Perfection Shapes siding provides the look of wood shingles, but does not require the upkeep common to wood.

Cedar Impressions are manufactured with a true-to-life cedar shingle texture molded directly from natural wood shingles. Cedar Impressions siding is appropriate for use in new construction for single family homes, multi-housing projects and light commercial developments. Cedar Impressions is also an ideal product for remodeling.

Styles:

Profile	Finish	Panel Dimensions	Panel Projection	Wall Thickness (Nominal)	Lock Design	Colors	Accessory Pocket
D7" Straight Edge Perfection Shingles 3G	Perfection	47" x 14" Double course	3/4"	.090"	Molded continuous perimeter lock for seamless appearance	24	¾"
D7" Staggered Perfection Shingles	Perfection	47" x 14" Double course	3/4"	.100"	Molded perimeter lock for seamless appearance	21	¾"
D7" Straight Edge Rough-Split Shakes	Rough-Split	57" x 14" Double course	1"	.125"	Molded perimeter lock for seamless appearance	17	1"
D9" Staggered Rough-Split Shakes	Rough-Split	57" x 18" Double course	1"	.125"	Molded perimeter lock for seamless appearance	17	1"
Individual 5" Sawmill Shingles	Sawmill	4" to 8" x 12" Individual shingles	½" - installs into 1" pocket	.085"	N/A	17	1"
S6-1/3" Perfection Shapes: Scallop	Perfection	42" x 6-1/3" Single course	¾"	.090"	Molded perimeter lock for seamless appearance	8	¾"
S6-1/3" Perfection Shapes: Octagon	Perfection	42" x 6-1/3" Single course	¾"	.090"	Molded perimeter lock for seamless appearance	6	¾"
S6-1/3" Perfection Shapes: Half-cove	Perfection	42" x 6-1/3" Single course	¾"	.090"	Molded perimeter lock for seamless appearance	4	¾"
S7" Straight Edge Perfection Shingle	Perfection	73-1/2" x 7" Single course	¾"	.080" to .090"	Molded continuous perimeter lock for seamless appearance	16	¾"
T5" Straight Edge Sawmill Shingles	Sawmill	60" x 15" Triple course	¾"	.100"	Molded continuous perimeter lock for seamless appearance	21	¾"

Colors: Cedar Impressions siding profiles are available in a wide selection of colors. All colors are Spectrophotometer controlled.

SOLID COLORS:			
Autumn Red	Cypress	Heritage Cream	Sable Brown
Autumn Yellow	Desert Tan	Herringbone	Savannah Wicker
Bermuda Blue	Flagstone	Light Maple	Seagrass
Buckskin	Forest	Mountain Cedar	Snow
Charcoal Gray	Granite Gray	Natural Clay	Spruce
Colonial White	Hearthstone	Pacific Blue	Sterling Gray

AGELESS CEDAR™ COLORS			
Cedar Blend Light	Cedar Blend Medium	Cedar Blend Dark	Cedar Blend (full panel)
Rustic Blend Light	Rustic Blend Medium	Rustic Blend Dark	Rustic Blend (full panel)
Natural Blend Light	Natural Blend Medium	Natural Blend Dark	Natural Blend (full panel)
Driftwood Blend Light	Driftwood Blend Medium	Driftwood Blend Dark	Driftwood Blend (full panel)

Lock: Molded perimeter locking system locks on all sides of panels to provide a seamless appearance and superior wind resistance.

Accessories: CertainTeed manufactures a wide range of siding accessories which are compatible with Cedar Impressions siding styles and colors. Accessory products include installation components, soffit, window and door trim, corner lineals, corner systems and decorative moldings.

Composition: Modified polypropylene copolymer.

Technical Data: Cedar Impressions siding is in compliance with ASTM specification for Polypropylene (PP) Siding D 7254 and the requirements of the 2015, 2018 and 2021 International Residential Code and International Building Code, the 2020 Florida Residential Code and Florida Building Code, the 2019 California Residential Code and California Building Code, and Part 9 of Division B of the National Building Code of Canada. Cedar Impressions siding meets or exceeds the properties noted in Table 1.

Table 1

ASTM E 84	Meets flame spread requirements of ASTM D7793 as tested according to ASTM E84.
NFPA 268	Radiant Heat Test – Ignition Resistance of Exterior Walls – Conclusion that CertainTeed met the conditions for allowable use as specified in section 1406 of the International Building Code.

Important Fire Safety Information: When rigid polypropylene is exposed to significant heat or flame, the polypropylene will soften, sag, melt or burn, and may thereby expose material underneath. Care must be exercised when selecting underlayment materials because many underlayment materials are made from organic materials that are combustible. You should ascertain the fire properties of underlayment materials prior to installation. All materials should be installed in accordance with local, state and federal building code and fire regulations.

Wind Load Testing: Cedar Impressions siding products have been tested per ASTM 5206 standard test method for wind load resistance to withstand negative wind load pressures and their mph equivalents as shown in the chart below. All products exceed industry standards for wind load performance. Check with your local building inspector for wind load requirements in your area for the type of structure you are building.

Wind Load Ratings:

Product	Fastener Spacing	2015/2018 IBC/IRC			2021 IBC/IRC		
		Standard Design Pressure Rating	Maximum Windspeed (mph)		Standard Design Pressure Rating	Maximum Windspeed (mph)	
			ASD	ULT		ASD	ULT
D7" Straight Edge Perfection Shingles 3G	Nails 12" o.c.	64.8	164	211	64.8	164	211
D7" Straight Edge Perfection Shingles Legacy	Nails 12" o.c.	83.3	186	240	74.1	175	227
D7" Staggered Perfection Shingles	Nails 12" o.c.	89.4	193	249	80.2	183	236
D7" Straight Edge Rough Split	Nails 10" o.c.	58.7	156	202	58.7	156	202
D9" Staggered Rough-Split Shakes	Nails 10" o.c.	37.0	124	160	37.0	124	160
D6-1/3" Scallop	Nails 8" o.c.	117.2	220	284	105.5	209	270
D6-1/3" Octagon	Nails 8" o.c.	101.9	205	265	91.7	195	251
D6-1/3" Half-Cove	Nails 8" o.c.	114.3	217	281	102.8	206	266
Individual 5" Sawmill Shingle	Staples Varies	231.5	310	100	222.2	304	392
S7" Perfection Shingle	Nails 10" o.c.	105.0	209	270	95.7	199	257
T5" Sawmill Shingle	Nails 10" o.c.	43.1	134	173	43.1	134	173

* Windload calculations based on ASTM D7254, ASCE 7-10, 30ft High, Exposure B

Documents: CertainTeed Cedar Impressions Siding meets the requirements of one or more of the following specifications.

Texas Department of Insurance Product Evaluation EC-11

Conforms to ASTM Specification D7254

Florida BCIS Approval FL 14270

ICC-ES Evaluation Report ESR-3085

CCMC #13508-R

For specific product evaluation/approval information, call 800-233-8990.

Installation: Complete instructions for installing Cedar Impressions siding are available in the “Installation Instructions” manual available from CertainTeed. Please review this manual prior to installation, it contains important installation requirements.

Warranty: CertainTeed supports Cedar Impressions siding products with a Lifetime Limited Warranty. The warranty is transferable if the home is sold.

Technical Services: CertainTeed maintains an Architectural Services staff to assist building professionals with questions regarding CertainTeed siding products. Call 800-233-8990 for samples and answers to technical or installation questions.

Sample Short Form Specification: Siding as shown on drawings or specified herein shall be Cedar Impressions® as manufactured by CertainTeed LLC, Malvern, PA. The siding shall be .080" to .125" nominal thickness (varies by profile). Installation shall be in accordance with manufacturer’s written instructions.

Three-part Format Specifications: Long form specifications in three-part format are available from CertainTeed by calling our Architectural Services Staff at 800-233-8990. These specifications are also available on our website at www.certainteed.com.



PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: CertainTeed LLC, Siding Products Group, 20 Moores Road, Malvern, Pennsylvania 19355. Tel: (800) 233-8990; Email: salesupportgroup@certainteed.com; Web: www.certainteed.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

- A. Polymer Shakes and Shingle Siding: Provide products made of molded polypropylene as specified in this section and manufactured to comply with requirement of ASTM D 7254
 - 1. Provide elongated nailing slots on nailing flanges to allow movement
 - 2. Provide products that meet weathering requirements of ASTM D 7254
 - 3. In accordance with ICC – ES Acceptance Criteria AC366
 - 4. Provide panel thermometer allowing for proper spacing in various temperatures
- B. Vinyl Siding, Soffit and Components: Provide products made of extruded polyvinyl chloride as specified in this section and manufactured to comply with requirements of ASTM D 3679.
 - 1. Provide elongated nailing slots on nailing flanges to allow for movement.
 - 2. Factory-notch ends of horizontal panels to form overlapping joints.
 - 3. Provide products that meet weathering requirements of ASTM D 3679.

2.3 Polymer Shakes and Shingle Siding

- A. Cedar Impressions Individual 5" Sawmill Shingles:
 - 1. Design: Individual 5 inch (127 mm) shingle; sawmill finish.
 - 2. Lock: N/A – hard nailed/stapled
 - 3. Height: 12 inch (304.8 mm).
 - 4. Width: Ranges from 4 inch (101.6 mm) to 8 inch (203.2 mm).
 - 5. Average Thickness: 0.090 inch (2.29 mm).
 - 6. Panel Projection: 1 inch (25.4 mm).
 - 7. Panel Exposure: 5 inches (127 mm)
 - 8. Maximum Warp: 0.250 inch (6 mm).
 - 9. Ageless Cedar™ Color Technology: color solid throughout the panel (including blended colors)
 - 10. Color: As selected by Architect from manufacturer's standards.
 - 11. Color shall be as follows:
 - a. Cedar Blend Light.
 - b. Cedar Blend Medium.
 - c. Cedar Blend Dark.
 - d. Driftwood Blend Light.
 - e. Driftwood Blend Medium.
 - f. Driftwood Blend Dark.
 - g. Natural Blend Light.
 - h. Natural Blend Medium.
 - i. Natural Blend Dark.
 - j. Rustic Blend Light.
 - k. Rustic Blend Medium.

ICC-ES Evaluation Report

ESR-3085

Reissued August 2019

Revised November 2020

This report is subject to renewal August 2021.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 33—Plastic Siding

REPORT HOLDER:

CERTAINTEED LLC

EVALUATION SUBJECT:

CERTAINTEED CEDAR IMPRESSIONS® POLYMER SHAKE AND SHINGLE SIDING

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2018, 2015 and 2012 *International Building Code*® (IBC)
- 2018, 2015 and 2012 *International Residential Code*® (IRC)

Properties evaluated:

- Exterior veneer
- Wind load resistance—transverse
- Ignition resistance (2018 IBC only)

1.2 Evaluation to the following green code(s) and/or standards:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 3.1

2.0 USES

CertainTeed Cedar Impressions® Polymer Shake and Shingle Siding are used as exterior wall coverings over approved sheathing or substrate capable of supporting the imposed loads on buildings of all types of construction under the 2018 IBC and on structures constructed in accordance with the IRC. Under the 2015 and 2012 IBC, the CertainTeed Cedar Impressions® Polymer Shake and Shingle Siding products are limited to Type VB construction (IBC), and on structures constructed in accordance with the IRC, over approved sheathings capable of supporting the imposed loads, including but not limited to positive and negative transverse wind loads.

3.0 DESCRIPTION

3.1 Siding:

The Cedar Impressions® Polymer Shake and Shingle sidings are molded into siding panels or individual shingles from polypropylene (PP) resins. The siding panels and individual shingles conform to, and are certified and labeled in accordance with, ASTM D7254. The accessory items, used to detail the application of the product as an exterior wall covering, are of the same material except for the starter strips, which are steel and aluminum.

All siding panels and individual shingles have an upper nailing flange with 1-inch-by-3/16-inch (25.4 mm by 4.8 mm) elongated nail slots spaced 1 1/2 inches (38.1 mm) on center and a lower locking leg that hooks into the upper edge of the lower course. The nailing flange has a 1/8-inch (3.2 mm) nail hole at the center of the panel. All panels also have side lock tabs.

The siding panels and individual shingles are available in different colors with varying shingle shapes and wood-grain textures. Siding panels and individual shingles range in nominal nail flange thickness from 0.090 inch to 0.125 inch (2.3 mm to 3.2 mm). The siding panels have lengths of 32 inches to 73 1/2 inches (813 mm to 1867 mm). The individual shingles have lengths of 4 inches to 8 inches (102 mm to 203 mm). The accessory shapes include inside/outside corners, cornice moldings, receivers and starter strips. Refer to Table 1 and Figure 1 for panel thicknesses, lengths and profiles within the scope of this report.

The attributes of the siding panels have been verified as conforming to the provisions of (i) CALGreen Sections A4.405.1.3 (prefinished materials) and A5.406.1.2 (reduced maintenance); (ii) ICC 700-2015 and ICC 700-2012 Sections 601.7, 11.601.7, and 12.1(A).601.7 (site-applied finishing materials); and (iii) ICC 700-2008 Section 601.7 (site-applied finishing materials). Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. The code may provide supplemental information as guidance.

3.2 Sheathing Substrate:

- Solid plywood structural sheathing complying with DOC PS-1.
- 7/16-inch or 1/2-inch (11.1 mm or 12.7 mm) Exposure 1 oriented strand board (OSB) sheathing complying with DOC PS-2.

3.3 Fasteners:

Siding panels and individual shingles must be attached to sheathing with galvanized, or stainless steel ring shank roofing nails with lengths of 1½ inches or 1⅝ inches (38 mm or 41 mm), a steel shank diameter of ⅛ inch (3.18 mm), and a ⅜-inch- or 7/16-inch-diameter (9.5 mm or 11.1 mm) head.

4.0 INSTALLATION

4.1 General:

Cedar Impressions® Polymer Shake and Shingle siding must be installed in accordance with the manufacturer's published installation instructions, the applicable code and this report. The manufacturer's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available on the jobsite at all times during installation.

The siding panel must be installed over the sheathing substrate in accordance with the applicable code. The siding panel and accessories must be fastened to framing having a minimum specific gravity of 0.42, or structural sheathing, with roofing nails with a minimum embedment into framing of ¾ inch (19.1 mm). When fastening to structural sheathing, nail penetration must be at least ¾ inch (19.1 mm) beyond the backside of the sheathing. Accessory materials such as corners, starter strips and trim must be fastened in accordance with the manufacturer's instructions, with the starter strip fastened similar to the siding panel.

4.2 Wind Resistance:

The allowable negative wind pressures for the products shown in Table 1 must exceed the design negative wind pressures determined in accordance with Chapter 16 of the IBC or Section R301.2.1 of the IRC.

The siding panel must be installed only on exterior walls covered by a solid sheathing capable of supporting the imposed loads, including but not limited to positive and negative transverse wind loads.

4.3 Use on Exterior Walls in Types I, II, III and IV Construction in accordance with 2018 IBC Section 1405.1 (Ignition Resistance):

When the exterior wall is sheathed with fire retardant treated wood sheathing, CertainTeed Cedar Impressions® Polymer Shake and Shingle Siding can be used on the exterior side of exterior walls on buildings of Types I, II, III or IV construction. The siding shows no sustained flaming at a maximum tolerable level of incident radiant heat flux of 12.5 kW/m², when tested in accordance with NFPA 268. The minimum fire separation distance required shall be determined from 2018 IBC Table 1405.1.1.1.2. The installation of the siding must comply with the applicable requirements in 2018 IBC Section 1405.1.

5.0 CONDITIONS OF USE

The CertainTeed Cedar Impressions® Polymer Shake & Shingle Siding described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this report, the manufacturer's published instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.

5.2 The siding is limited to the design pressures shown in Table 1. In jurisdictions adopting the IRC, the siding must be installed in accordance with 2018 and 2015 IRC Table R703.3(1) [2012 IRC Table R703.4] and limited to areas where the design wind pressure does not exceed the design values shown in Table 1.

5.3 The siding can be used on all types of construction under the 2018 IBC, and to structures constructed in accordance with the IRC. For Types I, II, III and IV construction, installation must comply with Section 4.3 of this report.

5.4 The siding is limited to use on construction Type VB under the 2015 and 2012 IBC and to structures constructed in accordance with the IRC.

5.5 Under Section 1403.12.2 of the 2018 IBC, the fire separation distance between the building with the siding and adjacent buildings must be no less than 10 feet (3048 mm). For Types I, II, III and IV construction, the fire separation distance must comply with 2018 IBC Section 1403.12.2 and Section 4.3 of this report.

5.6 Under Section 1404.12.2 of the 2015 and 2012 IBC, the fire separation distance between the building with the siding and adjacent buildings must be no less than 10 feet (3048 mm).

5.7 Under Section R703.14.2 of the 2018 and 2015 IRC, the siding must not be installed on walls with a fire separation distance of less than 5 feet (1524) and walls closer than 10 feet (3048 mm) to a building on another lot unless the walls are perpendicular to the line used to determine the fire separation distance.

5.8 The exterior walls must be braced or sheathed to resist racking loads with approved materials in accordance with the requirements of the applicable building code.

5.9 The sheathing must be covered with a water-resistive barrier, as required by the applicable code prior to installing the siding, and must comply with IBC Section 1403.2.

5.10 The CertainTeed Cedar Impressions® Polymer Shake and Shingle Siding is manufactured in McPherson, Kansas, under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Polypropylene Siding (AC366), dated October 2018.

6.2 Data in accordance with NFPA 268.

6.3 Data in accordance with ASTM E84.

7.0 IDENTIFICATION

7.1 The siding panels and shingles described in this report are identified by a stamp bearing the manufacturer's name (CertainTeed), the product name and code, the statement "Conforms to ASTM Specification D7254," and the evaluation report number (ESR-3085).

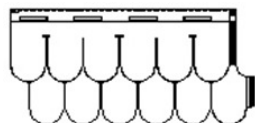
7.2 The report holder's contact information is the following:

CERTAINTEED LLC
20 MOORES ROAD
MALVERN, PENNSYLVANIA 19355
(800) 233-8990
www.certaiteed.com

TABLE 1—CEDAR IMPRESSIONS POLYMER SHAKE AND SHINGLE SIDING

PRODUCT NAME	PRODUCT CODE	STYLE	NAILING FLANGE THICKNESS (inch)	LENGTH (inches)	FASTENER SPACING (inches)	ALLOWABLE NEGATIVE WIND LOAD ¹ (psf)
Individual 5-inch Sawmill Shingles	30105	Individual 5-inch Shingles	0.090	Varies ²	Staples ³	231
Triple 5-inch Straight Edge Sawmill Shingles	30106	Triple 5-inch Shingles	0.100	60	10	43
Triple 5-inch Straight Edge Perfection Shingles	30130	Triple 5-inch Shingle	0.100	60	8	71
Single 7-inch Perfection Shingles	30137	Single 7-inch Shingles	0.090	73.5	10	105
Double 7-inch Straight Edge Perfection Shingles	30138	Double 7-inch Shingle	0.100	48	8	83
Double 7-inch Staggered Perfection Shingles	30143	Double 7-inch Shingle	0.100	48	8	89
Double 7-inch Straight Edge Rough-Split Shakes	30141	Double 7-inch Shingle	0.125	57	10	59
Double 9-inch Staggered Edge Rough-Split Shakes	30136	Double 9-inch Shake	0.125	57	10	37
Double 6 ¹ / ₄ -inch Half-Round Shingles	30128	Double 6 ¹ / ₄ -inch Shingle	0.100	32	8	40

For SI: 1 inch = 25.4 mm

NOTES:¹Allowable loads as determined per A1.2.1 of ASTM D7254.²Individual 5-inch Sawmill Shingles are available in 4-inch, 4¹/₄-inch, 5-inch, 5³/₄-inch, 6³/₄-inch and 8-inch lengths.³Individual 5-inch Sawmill Shingles fasteners are no. 16 gage staples with a minimum length of 1¹/₂ inch (38 mm) and a crown width of ⁷/₁₆ inch (11.1 mm), spaced ³/₄ inch from each shingle edge into the sheathing.Double 6¹/₄-inch Half-Round Shingle

Triple 5-inch Straight Edge Perfection Shingle



Double 7-inch Straight Edge Perfection Shingle



Double 7-inch Staggered Perfection



Double 7-inch Straight Edge Rough-Split Shakes



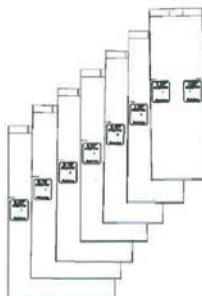
Double 9-inch Staggered Edge Rough-Split Shake



Triple 5-inch Straight Edge Sawmill Shingles



Single 7-inch Perfection Shingle



Individual 5-inch Sawmill Shingles

FIGURE 1—PRODUCT PROFILES

ICC-ES Evaluation Report

ESR-3085 CBC and CRC Supplement

Reissued August 2019

Revised November 2020

This report is subject to renewal August 2021.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 33—Plastic Siding

REPORT HOLDER:

CERTAINTEED LLC

EVALUATION SUBJECT:

CERTAINTEED CEDAR IMPRESSIONS® POLYMER SHAKE AND SHINGLE SIDING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that CertainTeed Cedar Impressions® Polymer Shake and Shingle Sidings, recognized in ICC-ES evaluation report ESR-3085, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

■ 2019 California Building Code® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2019 California Residential Code® (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The CertainTeed Cedar Impressions® Polymer Shake and Shingle Siding, recognized in Sections 2.0 through 7.0 of the evaluation report ESR-3085, comply with CBC Chapter 14, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the applicable provisions of the CBC.

2.1.1 OSHPD:

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The CertainTeed Cedar Impressions® Polymer Shake and Shingle Siding, recognized in Sections 2.0 through 7.0 of the evaluation report ESR-3085, comply with CRC Chapter 7, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of the CRC.

This supplement expires concurrently with the evaluation report, reissued August 2019 and revised November 2020.

ICC-ES Evaluation Report

ESR-3085 FBC Supplement

Reissued August 2019

Revised November 2020

This report is subject to renewal August 2021.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 33—Plastic Siding

REPORT HOLDER:

CERTAINTEED LLC

EVALUATION SUBJECT:

CERTAINTEED CEDAR IMPRESSIONS® POLYMER SHAKE AND SHINGLE SIDING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that CertainTeed Cedar Impressions® Polymer Shake and Shingle Sidings, described in ICC-ES evaluation report ESR-3085, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 and 2017 *Florida Building Code—Building*
- 2020 and 2017 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The CertainTeed Cedar Impressions® Polymer Shake and Shingle Sidings, described in Sections 2.0 through 7.0 of the evaluation report ESR-3085, comply with the 2020 and 2017 *Florida Building Code—Building* and *Florida Building Code—Residential*, provided the design requirements are determined in accordance with the *Florida Building Code—Building* and *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-3085 for the 2018 and 2015 *International Building Code*® (IBC) meet the requirements of the or the *Florida Building Code—Building*, as applicable, with the following conditions:

- Siding is limited to use in Construction Type VB and on structures in accordance with the *Florida Building Code—Residential*.
- Clearance between exterior wall coverings and final earth grade must meet the requirements of Section 1403.8 of the *Florida Building Code—Building* or Section R318.7 *Florida Building Code—Residential*, as applicable.

Use of the CertainTeed Cedar Impressions® Polymer Shake and Shingle Sidings for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued August 2019 and revised November 2020.

DOVER COAST, LLC 725 CENTRAL AVE. APARTMENTS

725 - 727 CENTRAL AVENUE & 4 BRICK ROAD
DOVER, NEW HAMPSHIRE

PREPARED FOR:
STEPHEN CHUNIAS
DOVER COAST, LLC
286 HIGH STREET
TOPSFIELD, MA 01983

SUBJECT PROPERTY'S

28-13	DOVER COAST, LLC 18 MORNINGSIDE DRIVE, TOPSFIELD, MA 01983
28-14	PONTBRIAND SANDRA & NORMAN J. 4 BRICK ROAD, DOVER, NH 03820
28-9-C	6 BRICK ROAD, LLC 42J DOVER POINT ROAD DOVER, NH 03820
28-12-A	WIRE BENDER REALTY TRUST, RICHARD W. MILLER II, TRUSTEE 6 OXBOW FARM, STRATHAM, NH 03885-2360
28-15-A	HERBERT, KAREN A. & HANSCOM, FRANK J., 10 BRICK ROAD DOVER, NH 03820
28-18-B	BRICK ROAD HOLDINGS, LLC, C/O UNIVERSAL PROPERTY MANAGEMENT 750 LAFAYETTE ROAD, SUITE 201 PORTSMOUTH, NH 03801
28-18-C	BRICK ROAD HOLDINGS, LLC, C/O UNIVERSAL PROPERTY MANAGEMENT 750 LAFAYETTE ROAD, SUITE 201 PORTSMOUTH, NH 03801
29-12	PETER MENOUNOS, TRUSTEE, PETER MENOUNOS TRUST 1997 720 CENTRAL AVE DOVER, NH 03820
29-16	HOLGATE LIMITED PARTNERSHIP 130 CENTRAL AVE DOVER, NH 03820
29-17	CENTRAL COMMONS 750 CENTRAL AVE DOVER, NH 03820
29-100	MARKER 21 HOLDINGS, LLC 130 CENTRAL AVE DOVER, NH 03820



NEIGHBORHOOD PLAN & TAX MAP SKETCH
APPROXIMATE SCALE: 1" = 40'

ARCHITECT
AG ARCHITECTS, PC
634 CENTRAL AVENUE
DOVER, NH 03820
(603) 743-3700

CIVIL ENGINEER/SURVEYOR
CIVIL CONSULTANTS
P.O. BOX 100
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(207) 384-2550

LANDSCAPE ARCHITECT
SCOTT STRYNER LANDSCAPE
ARCHITECT, LLC
98 MEEHAN LANE
NORTH BERWICK, ME 03906
(207) 957-4441

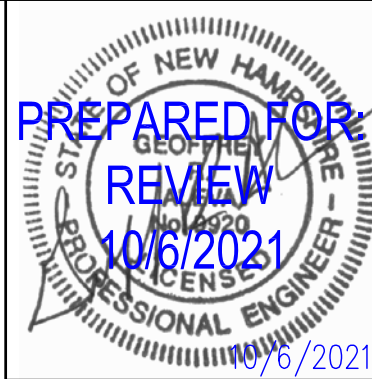
INDEX:

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L1	NEIGHBORHOOD TOPOGRAPHY PLAN
L2	PROPOSED SITE PLAN
L3	DEMOLITION PLAN
L4	UTILITY PLAN
L5	PROPOSED ENTRANCE WALK PLAN AND DETAIL
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A2.1	PROPOSED BASEMENT AND FIRST FLOOR PLANS
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ES2.3	SITE LIGHTING LAYOUT
ES2.4	GARAGE LIGHTING LAYOUT
LS2.1	LANDSCAPE PLAN
LS2.2	LANDSCAPE DETAILS

OWNER:

28-13	DOVER COAST, LLC 286 HIGH STREET TOPSFIELD, MA 01983
28-14	

OWNER SIGNATURE



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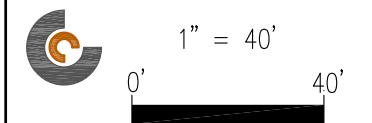
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10/06/21	DATE
JAA	INT.

2	REVISE PER PARKING REVISIONS	REVISIONS
1	REVISE PER TRC REVIEW	NO

RECORD OWNERS:	LOT 13 DOVER COAST, LLC 18 MORNINGSIDE DRIVE TOPSFIELD, MA 01983	LOT 14 SANDRA PONTBRIAND NORMAN PONTBRIAND 4 BRICK ROAD DOVER, NH 03820
----------------	---	---

PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC &
NORMAND & SANDRA PONTBRIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE
PREPARED FOR:
AG ARCHITECTS, PC
634 CENTRAL AVENUE, DOVER, NH 03820
CLIENT ADDRESS:



DATE: 8/11/2021
DRAWN BY: JAA
CHECKED BY: GRA
APPROVED BY: GRA

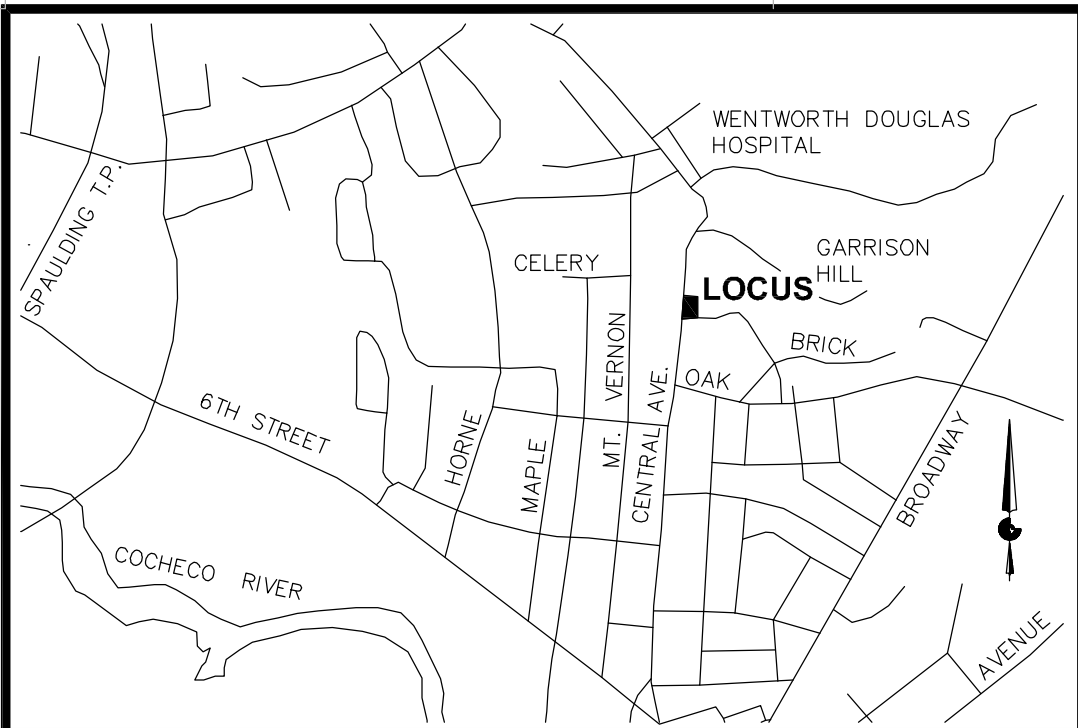
NEIGHBORHOOD
PLAN AND ABUTTER
INFORMATION

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

C1

SHEET: 1 OF 10

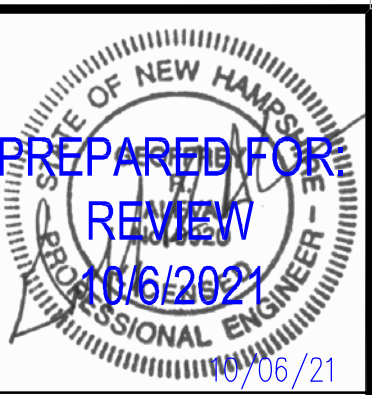
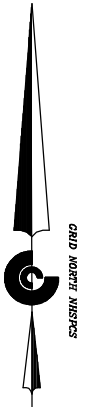
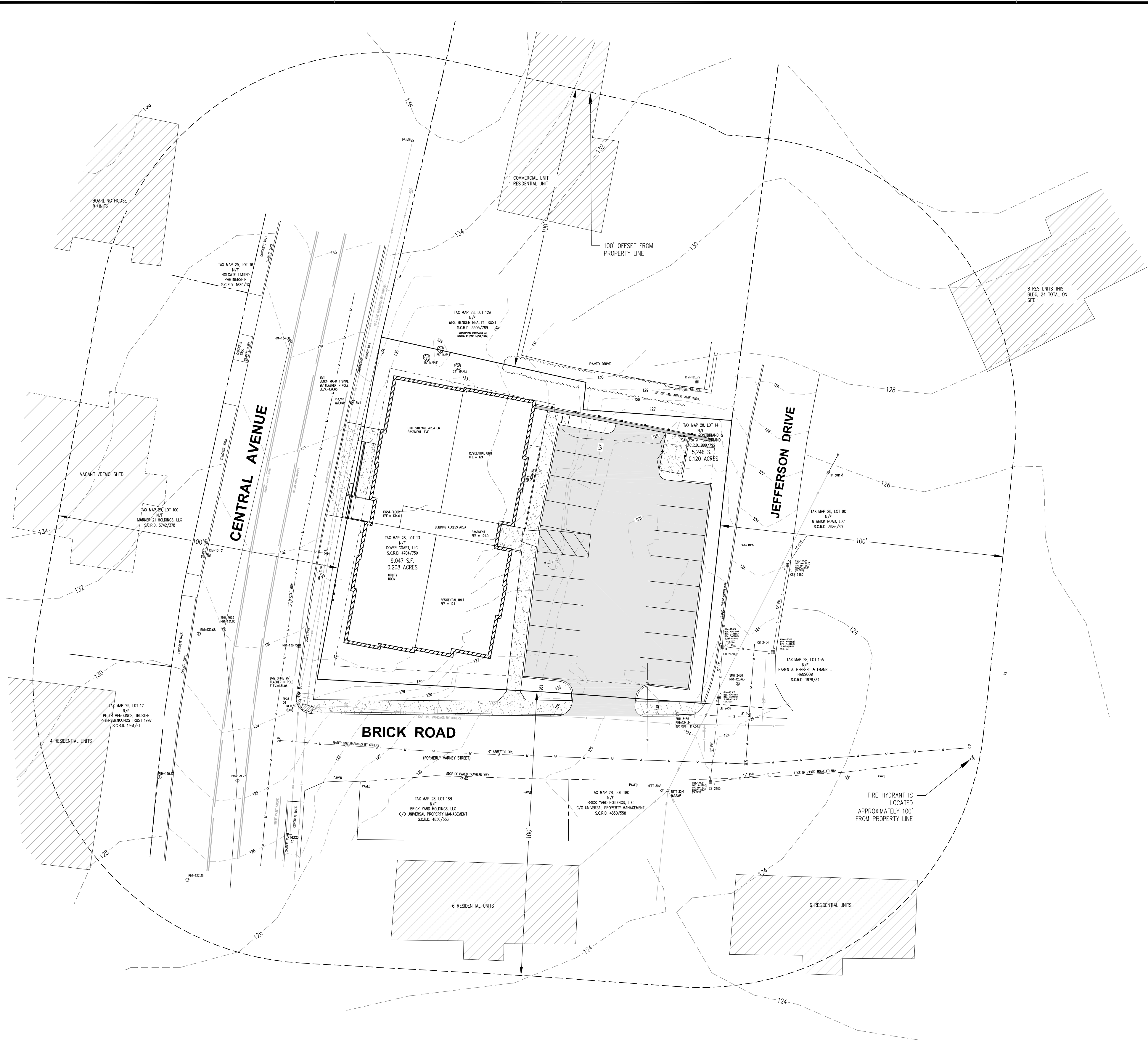
TAX MAP 28, LOTS 13 & 14



LOCATION PLAN
(NOT TO SCALE)

NOTES:

1. THIS PLAN HAS BEEN PROVIDED TO INDICATE THE TOPOGRAPHY OFF-SITE WITHIN A RADIUS OF 100FT.
2. TOPOGRAPHIC INFORMATION INDICATED HEREON WAS OBTAINED FROM THE GRANITVIEW GIS MAPPING SYSTEM. .
3. ALL EXISTING TOPOGRAPHY WITHIN THE LOT BOUNDARIES WAS OBTAINED VIA ON THE GROUND SURVEY.

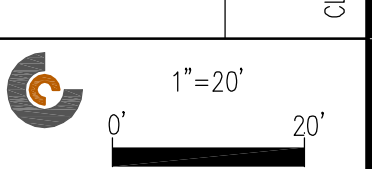


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NO.	REVISIONS	DATE
3	REVISE PER PARKING REVISIONS	10/06/21
2	REVISE PER TPC REVIEW	9/15/21
1	ADD RESIDENTIAL UNIT COUNTS	8/23/21

RECORDED OWNERS:
LOT 13
DOVER COAST, LLC
18 MORNINGSTAR DRIVE
TOPSFIELD, MA 01963
LOT 14
SANDRA PONTERIAND
NORMAN PONTERIAND
4 BRICK ROAD
DOVER, NH 03820

PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC & NORMAND & SANDRA PONTERIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE
PREPARED FOR:
AG ARCHITECTS, PC
634 CENTRAL AVENUE, DOVER, NH 03820
CLIENT ADDRESS:



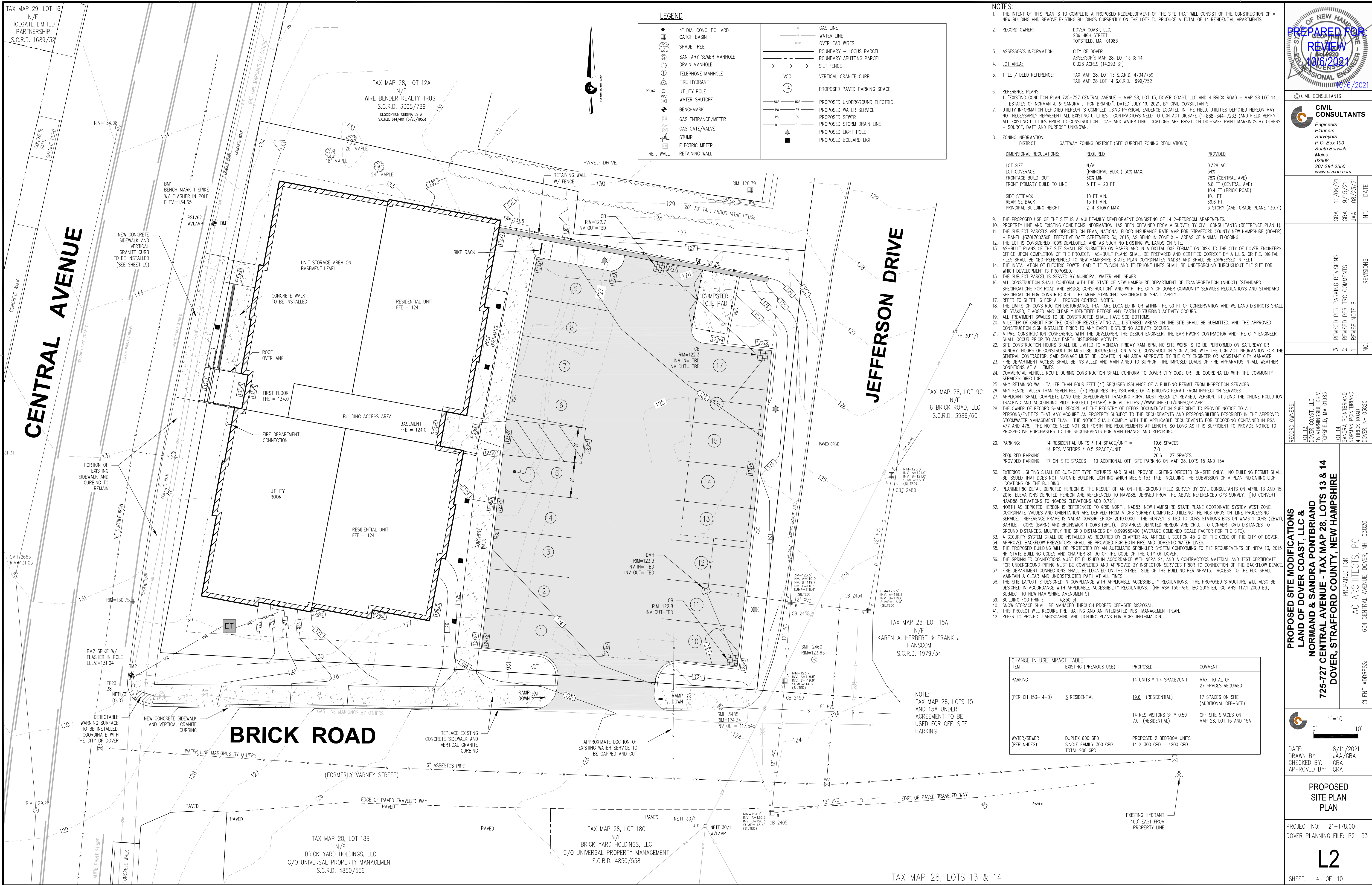
DATE: 8/11/2021
DRAWN BY: JAA/GRA
CHECKED BY: GRA
APPROVED BY: GRA

NEIGHBORHOOD
TOPOGRAPHY
PLAN

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

L1
SHEET: 3 OF 10

TAX MAP 28, LOTS 13 & 14



PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC & NORMAN & SANDRA PONTERBIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE

RECORD OWNERS:
LOT 13: DOVER COAST, LLC, 286 HIGH STREET, TOPSFIELD, MA 01963
LOT 14: SANDRA PONTERBIAND, 4 BRICK ROAD, DOVER, NH 03820

PREPARED FOR:
AG ARCHITECTS, PC
634 CENTRAL AVENUE, DOVER, NH 03820

CLIENT ADDRESS:

PROPOSED SITE PLAN PLAN

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

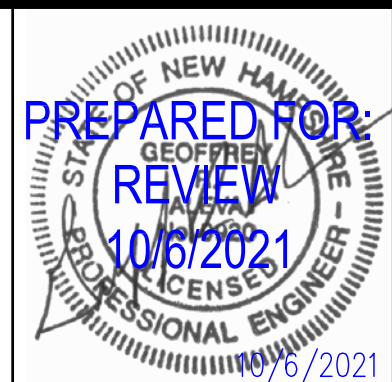
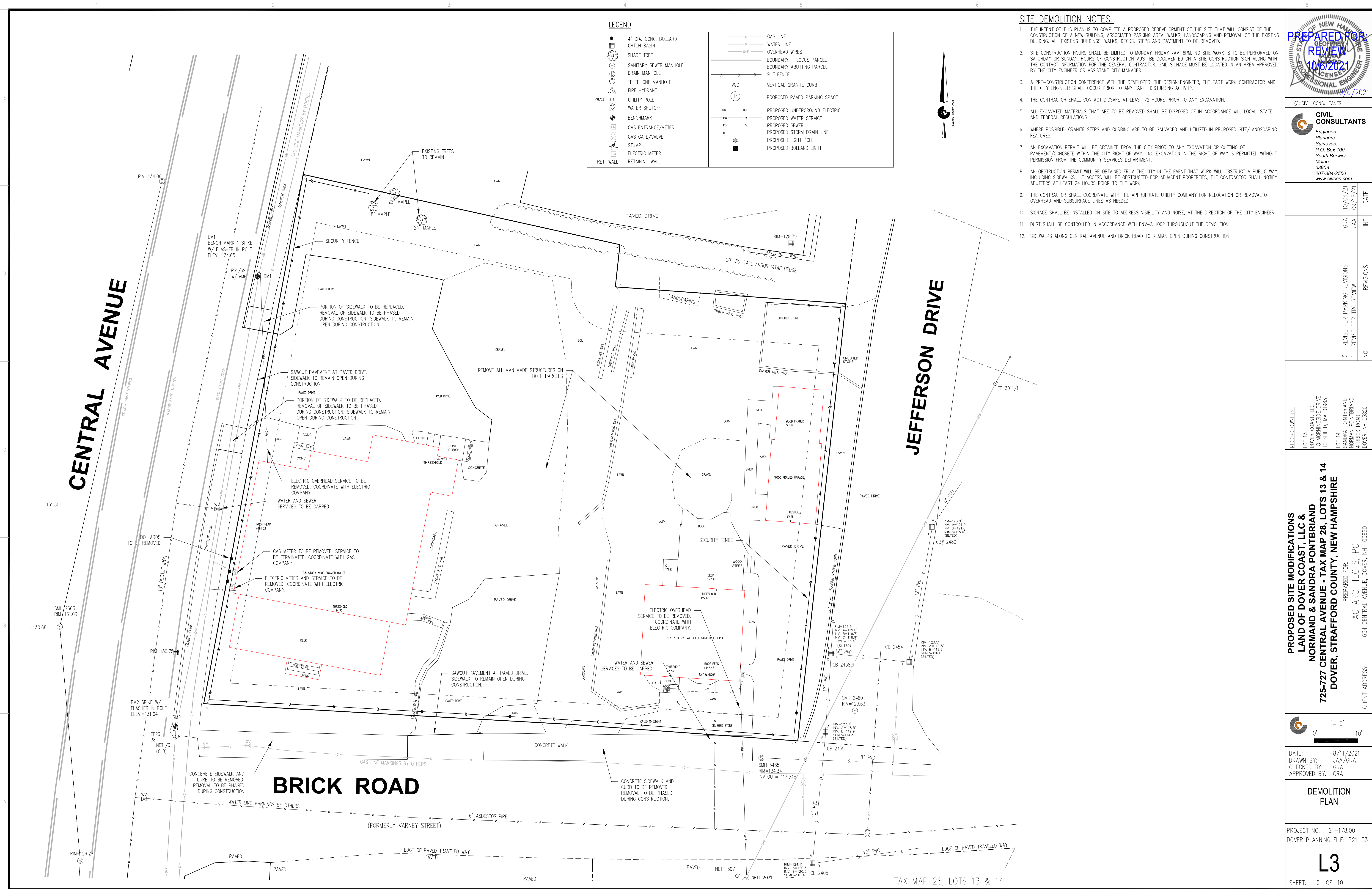
L2

SHEET: 4 OF 10

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DATE: 8/11/2021
DRAWN BY: JAA/GRA
CHECKED BY: GRA
APPROVED BY: GRA

1"=10'



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Maine
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207-384-2550
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NO.	REVISIONS	DATE
2	REVISE PER PARKING REVISIONS	10/06/21
1	REVISE PER TRC REVIEW	09/15/21

RECORD OWNERS:
LOT 13
DOVER COAST, LLC
18 MORNINGSIDES DRIVE
TOPSFIELD, MA 01963
LOT 14
SANDRA PONTERBIAND
NORMAN PONTERBIAND
4 BRICK ROAD
DOVER, NH 03820

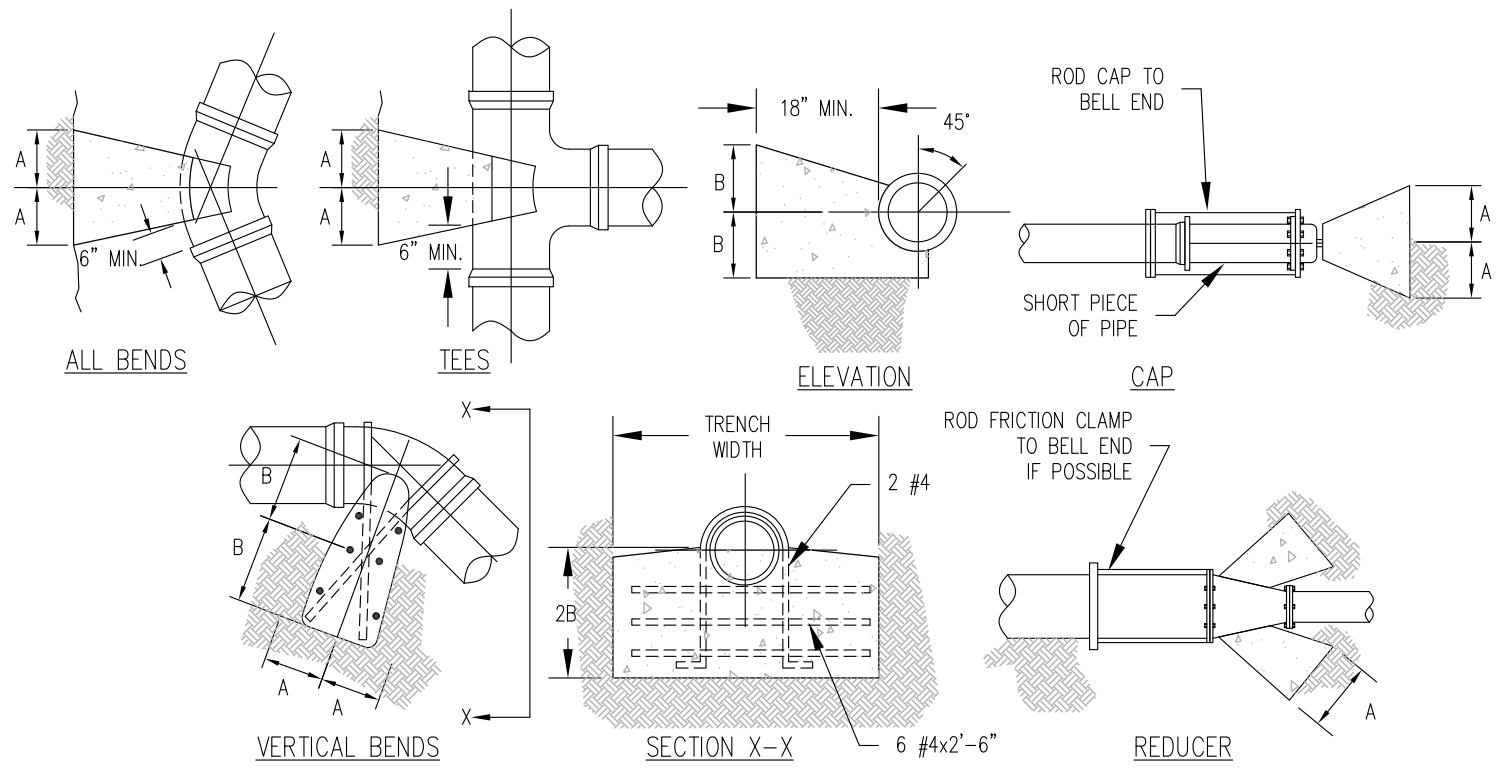
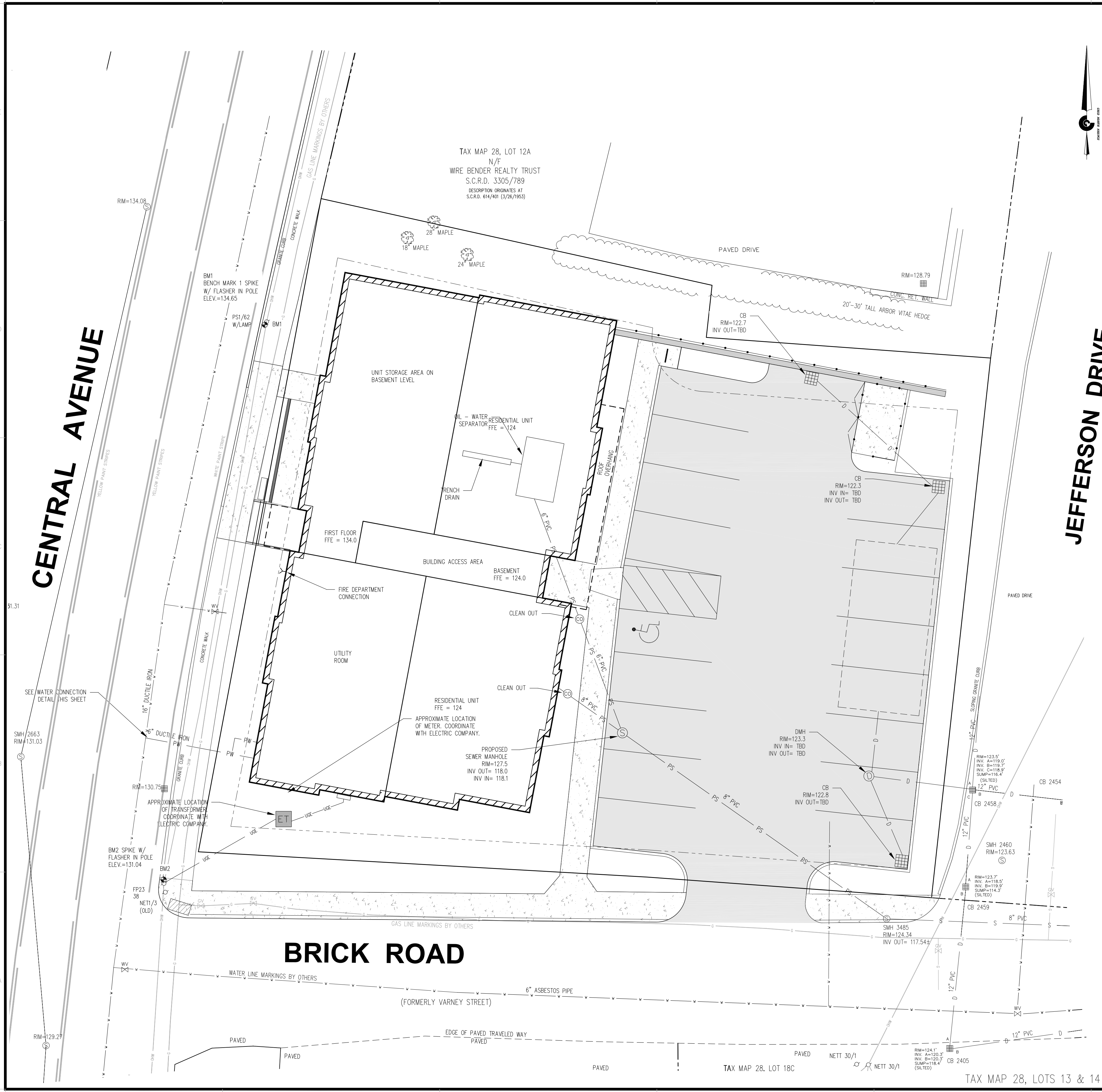
PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC & NORMAND & SANDRA PONTERBIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE
PREPARED FOR:
AG ARCHITECTS, PC
634 CENTRAL AVENUE, DOVER, NH 03820
CLIENT ADDRESS:

DATE: 8/11/2021
DRAWN BY: JAA/JAA
CHECKED BY: GRA
APPROVED BY: GRA

DEMOLITION PLAN

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

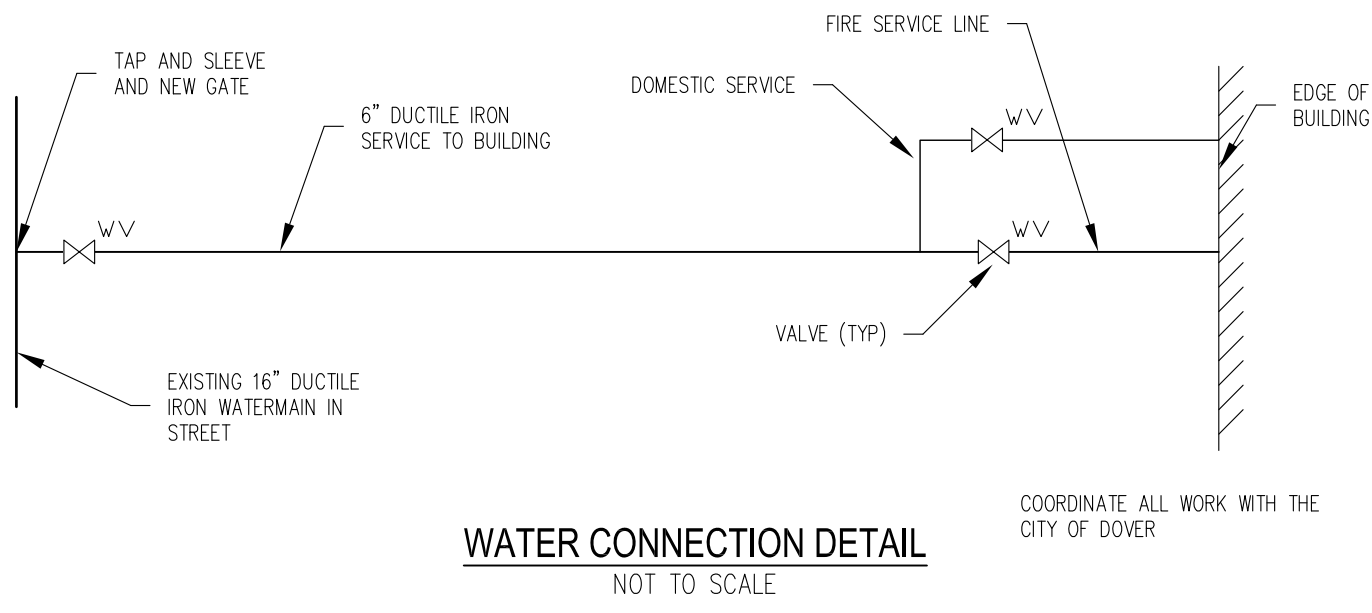
L3
SHEET: 5 OF 10



NOTES:

- THRUST BLOCK SIZES SHOWN ARE BASED ON A SOIL BEARING CAPACITY OF 2000 PSF AND TEST PRESSURES OF 180 PSI.
- ALL BENDS, TEES, WYES, HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
- RODDING MAY BE REQUIRED.

THRUST BLOCK DETAIL
NOT TO SCALE



WATER CONNECTION DETAIL
NOT TO SCALE

LEGEND

- 4" DIA. CONC. BOLLARD
- CATCH BASIN
- SHADE TREE
- SANITARY SEWER MANHOLE
- DRAIN MANHOLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- UTILITY POLE
- WATER SHUTOFF
- BENCHMARK
- GAS ENTRANCE/METER
- GAS GATE/VALVE
- STUMP
- ELECTRIC METER
- RET. WALL

- G — GAS LINE
- W — WATER LINE
- OHW — OVERHEAD WIRES
- B — BOUNDARY - LOCUS PARCEL
- A — BOUNDARY ABUTTING PARCEL
- S — SILT FENCE
- V — VERTICAL GRANITE CURB
- P — PROPOSED PAVED PARKING SPACE
- U — PROPOSED UNDERGROUND ELECTRIC
- PW — PROPOSED WATER SERVICE
- PS — PROPOSED SEWER
- D — PROPOSED STORM DRAIN LINE
- L — PROPOSED LIGHT POLE
- B — PROPOSED BOLLARD LIGHT

PREPARED FOR:
REVIEW
10/6/2021
10/6/2021

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10/06/21
09/15/21
DATE

2 REVISE PER PARKING REVISIONS
1 REVISE PER TRC REVIEW
NO

RECORD OWNERS:
LOT 13
DOVER COAST, LLC
18 MORNINGSIDE DRIVE
TOPSFIELD, MA 01963
LOT 14
SANDRA PONTERBIAND
NORMAN PONTERBIAND
4 BRICK ROAD
DOVER, NH 03820

PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC &
NORMAND & SANDRA PONTERBIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE

PREPARED FOR:
AG ARCHITECTS, PC
634 CENTRAL AVENUE, DOVER, NH 03820
CLIENT ADDRESS:

1"=10'
0' 10'

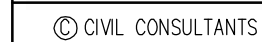
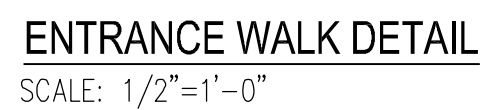
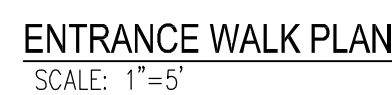
DATE: 8/11/2021
DRAWN BY: JAA/GRA
CHECKED BY: GRA
APPROVED BY: GRA

UTILITY PLAN

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

L4

SHEET: 6 OF 10



**CIVIL
CONSULTANTS**

*Engineers
Planners
Surveyors*

*P.O. Box 100
South Berwick
Maine
03908
207-384-2550
www.civcon.com*

NO	REVISIONS	DATE
2	REVISE PER PARKING REVISIONS	10/06/21
1	REVISE PER TRC REVIEW	09/15/21

RECORD OWNERS:

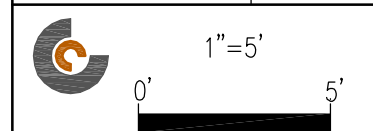
LOT 13
DOVER COAST, LLC
18 MORNINGSIDE DRIVE
TOPSFIELD, MA 01983

LOT 14
SANDRA POINBRIAND
NORMAN POINBRIAND
4 BRICK ROAD
DOVER, NH 03820

PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC &
NORMAND & SANDRA PONTBRIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE

CLIENT ADDRESS: 634 CENTRAL AVENUE, DOVER, NH 03820

PREPARED FOR: AC ARCHITECTS, PC



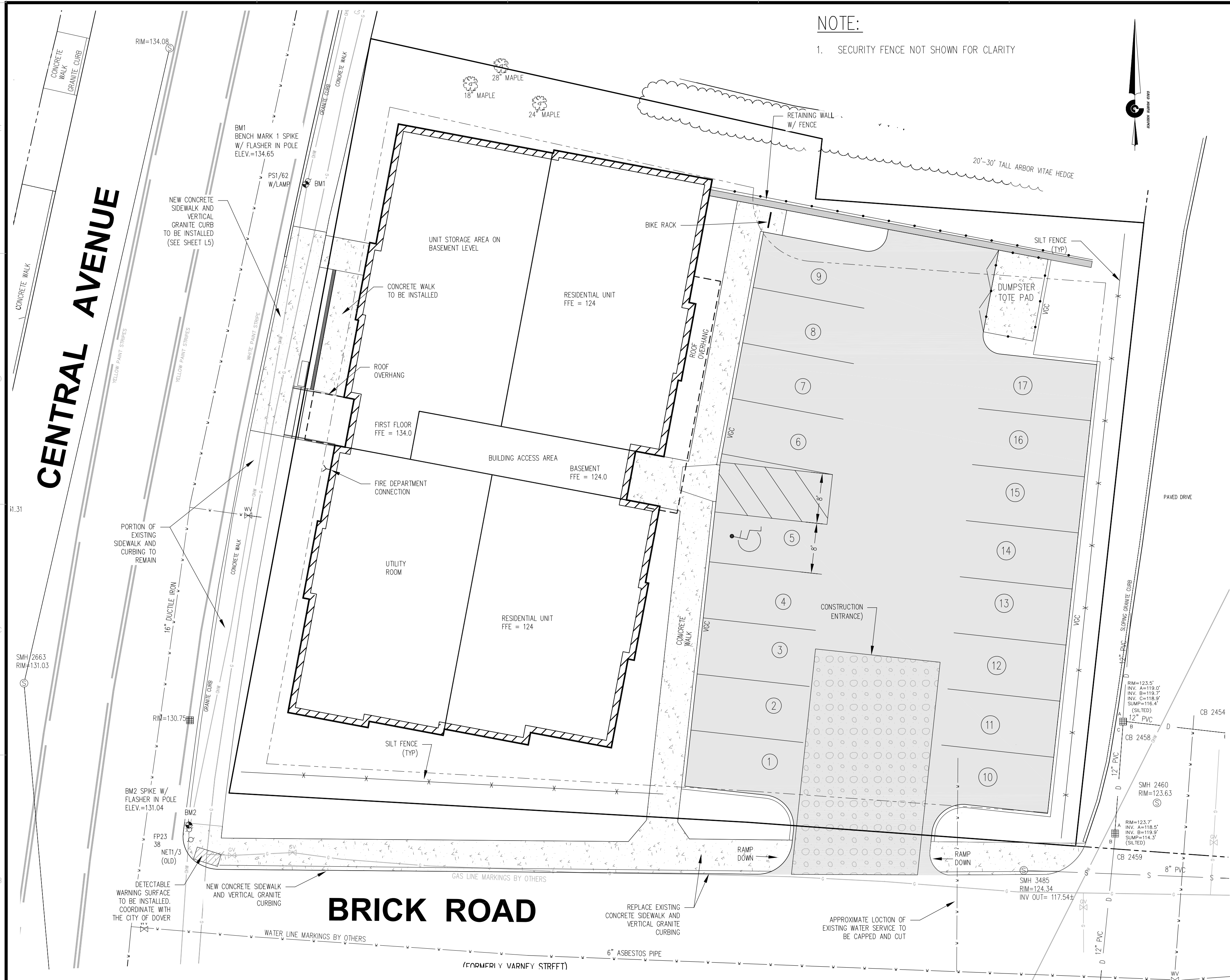
DATE: 8/11/2021
DRAWN BY: JAA/GRA
CHECKED BY: GRA
APPROVED BY: GRA

PROPOSED
ENTRANCE WALK
PLAN & DETAIL

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

L5

SHEET: 7 OF 10



EROSION AND SEDIMENT CONTROL PRACTICES

- NO SOIL SHALL BE DISTURBED DURING THE PERIOD OF MARCH 1 THROUGH APRIL 15, NOR DURING ANY OTHER PERIOD WHEN SOILS ARE SATURATED DUE TO RAIN OR SNOW MELT.
- DISTURBED SOILS SHALL BE STABILIZED WITHIN ONE (1) WEEK FROM THE TIME IT WAS LAST ACTIVELY WORKED USING TEMPORARY OR PERMANENT MEASURES SUCH AS PLACEMENT OF RIPRAP, MULCH OR EROSION CONTROL BLANKET, OR OTHER COMPARABLE MEASURES.
- HAY OR STRAW MULCH SHALL BE APPLIED AT A RATE OF AT LEAST ONE (1) BALE PER 500 SQUARE FEET (1-2 TONS PER ACRE).
- IF MULCH IS LIKELY TO BE REMOVED DUE TO STEEP SLOPES OR WIND, IT SHALL BE ANCHORED WITH NETTING, PEG OR TWINE, OR OTHER SUITABLE METHOD AND SHALL BE MAINTAINED UNTIL A CATCH OF VEGETATION IS ESTABLISHED OVER THE ENTIRE DISTURBED AREA.
- IN ADDITION TO PLACEMENT OF RIPRAP, MULCH OR EROSION CONTROL BLANKETS, ADDITIONAL STEPS SHALL BE TAKEN WHERE NECESSARY IN ORDER TO PREVENT SEDIMENTATION OF THE WATER. EVIDENCE OF SEDIMENTATION INCLUDES VISIBLE GULLY EROSION, DISCOLORATION OF WATER BY SUSPENDED PARTICLES AND SLUMPING OF BANKS. SILT FENCES, STAKED HAY BALES AND OTHER SEDIMENTATION CONTROL MEASURES, WHERE PLANNED FOR, SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF WORK, BUT SHALL ALSO BE INSTALLED WHEREVER NECESSARY DUE TO SEDIMENTATION.
- MULCH OR OTHER TEMPORARY MEASURES SHALL BE MAINTAINED UNTIL THE SITE IS PERMANENTLY STABILIZED WITH VEGETATION OR OTHER PERMANENT CONTROL MEASURES AFTER WHICH TEMPORARY MEASURES WILL BE REMOVED.
- PERMANENT RE-VEGETATION OF ALL DISTURBED AREAS, USING NATIVE PLANT MATERIAL WHEN POSSIBLE, SHALL OCCUR WITHIN 30 DAYS FROM THE TIME THE AREAS WERE LAST ACTIVELY WORKED, OR FOR FALL AND WINTER ACTIVITIES, BY JUNE 15, EXCEPT WHERE PRECLUDED BY THE TYPE OF ACTIVITY (E.G. RIPRAP, ROAD SURFACES, ETC.). THE VEGETATIVE COVER SHALL BE MAINTAINED.
- DISPOSAL OF COLLECTED DEBRIS MUST BE IN CONFORMANCE WITH LOCAL AND STATE REGULATIONS. REFER TO CHAPTER 145 OF THE CITY OF DOVER ORDINANCES FOR ADDITIONAL INFORMATION.
- LIME AND FERTILIZER APPLICATION RATES SHALL NOT EXCEED THE FOLLOWING:

GROUND LIMESTONE: 3 TONS/ACRE (130 LBS./1000 S.F.)
FERTILIZER, 10-10-10 OF EQUIVALENT: 600 LBS./ACRE
(14 LBS./1000 S.F.)

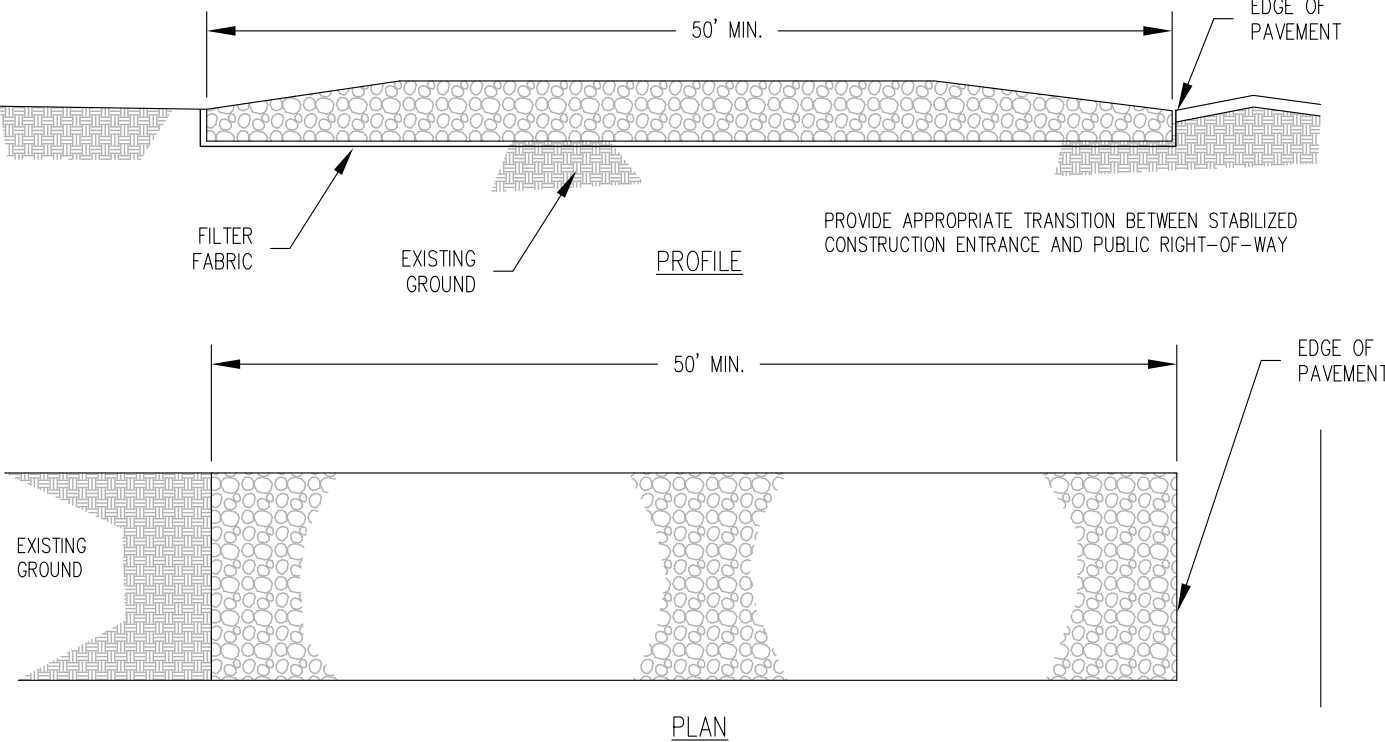
FERTILIZER SHALL NOT BE APPLIED BEFORE START OF THE GROWING SEASON NOR AFTER SEPTEMBER 30. FERTILIZED AREAS SHALL BE MULCHED TO REDUCE OFF-SITE TRANSPORT OF NUTRIENTS UNTIL USED BY VEGETATIVE GROWTH.

SEEDING MIXTURE AND SCHEDULE:

SPREAD TOPSOIL UNIFORMLY 6" DEEP OVER AREAS TO BE RECLAIMED. THE FOLLOWING SEED MIXTURE SHALL BE USED:

LAWNS:	
KENTUCKY BLUEGRASS	0.46 LBS./1000 S.F.
CREeping RED FESCUE	0.46 LBS./1000 S.F.
PERENNIAL RYE GRASS	0.11 LBS./1000 S.F.
TOTAL	1.03 LBS./1000 S.F.

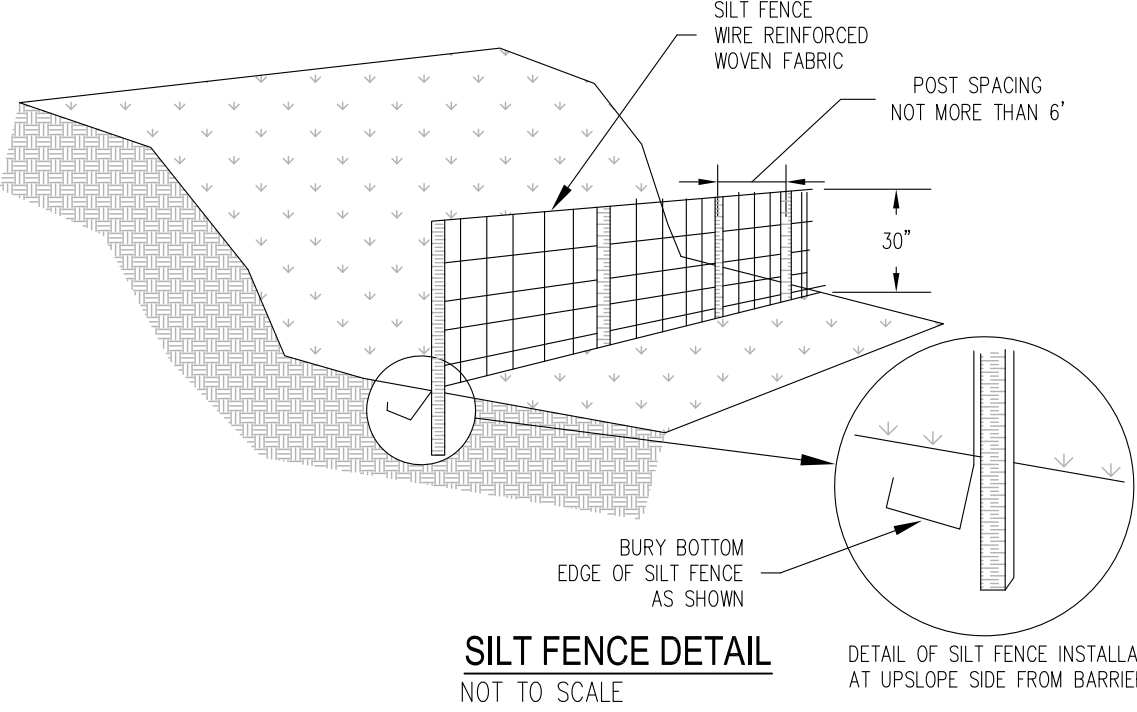
APPLY LIME AND FERTILIZER AS SPECIFIED UNDER THE EROSION AND SEDIMENTATION CONTROL NOTES. WORK INTO THE TOP (4) INCHES OF SOIL PRIOR TO SEEDING. AFTER SEEDING, APPLY MULCH HAY AS SPECIFIED. ON FLAT AREAS AND NOT EXPOSED TO WIND, THE MULCH WILL BE ANCHORED BY WETTING DOWN. IN OTHER AREAS, JUTE NETTING SHALL BE USED FOR ANCHORAGE. THE ABOVE SEEDING SCHEDULE IS APPLICABLE IF SEEDING DURING THE GROWING SEASON (APRIL 15 TO JUNE 15 AND AUGUST 30 TO SEPTEMBER 30). BETWEEN JUNE 15 AND AUGUST 30, SEEDING WILL BE DELAYED UNTIL AUGUST 30. IF SOIL IS DISTURBED BETWEEN OCTOBER 1 AND NOVEMBER 1, DELAY SEEDING UNTIL NOVEMBER 1. AFTER NOVEMBER 1 AND BEFORE A SNOW COVER FORMS, THE SAME PROCEDURE WILL BE FOLLOWED EXCEPT THE SEED RATE WILL BE DOUBLED. AFTER SNOW COVER AND BEFORE APRIL 15, SEEDING WILL BE DELAYED UNTIL APRIL 15. HAY MULCH WILL BE APPLIED AT A RATE OF 150 LBS./1000 SQUARE FEET. THIS WILL BE ANCHORED BY NON-ASPHALTIC TACKIFIER SPRAYED ON LAWNS AND JUTE NETTING IN DRAINAGE WAYS AND OTHER AREAS.



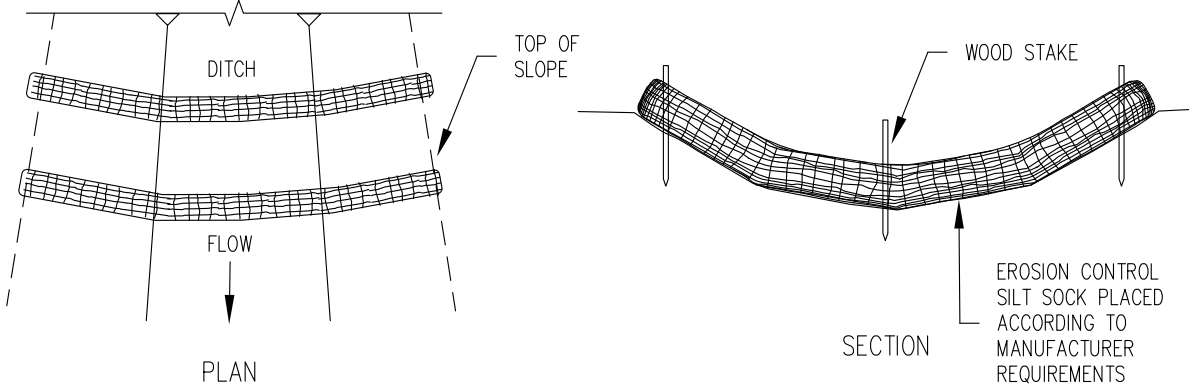
CONSTRUCTION SPECIFICATIONS

- STONE SIZE - AASHTO DESIGNATION M43, SIZE NO 2 (2-1/2" TO 1-1/2"). USE CRUSHED STONE.
- LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
- WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED, ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

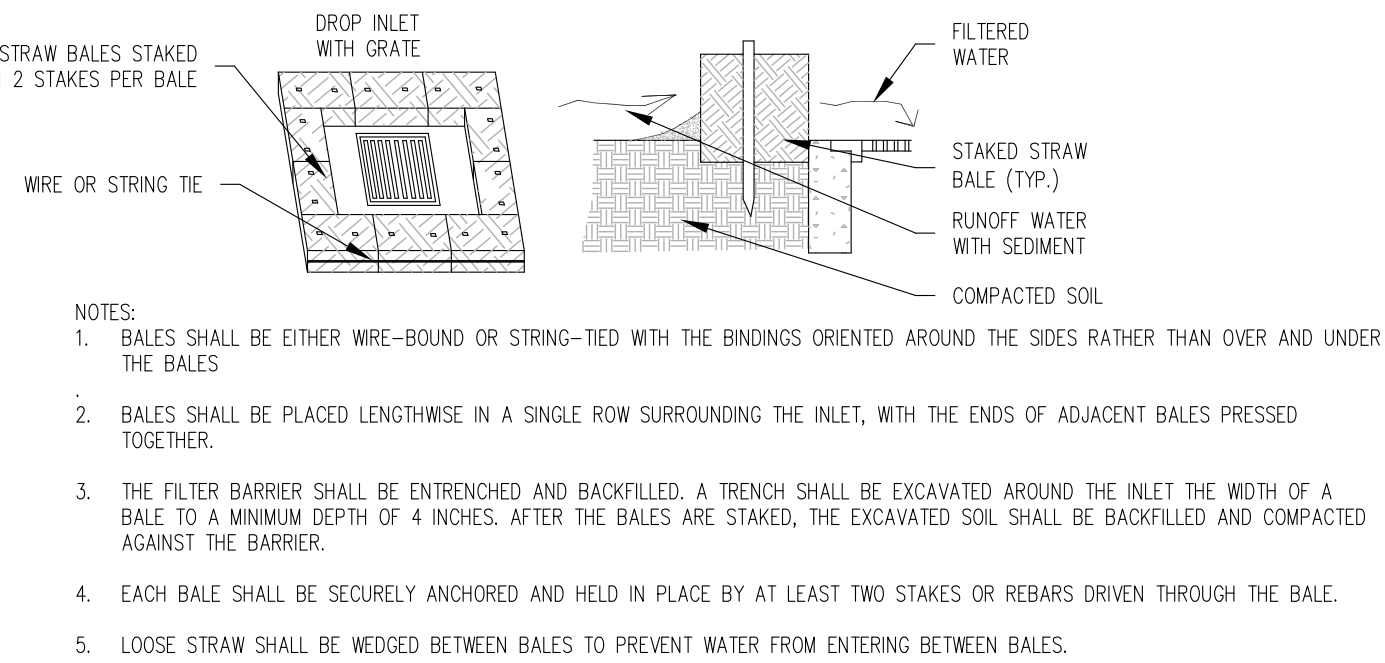
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE



SILT SOCK - DITCH LINE
NOT TO SCALE



CATCH BASIN HAY BALE BARRIER
NOT TO SCALE



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NO.	REVISIONS	DATE
1	REVISE PER PARKING REVISIONS	10/06/21
2	REVISE PER IRC REVIEW	09/15/21

RECORD OWNERS:
LOT 13
DOVER COAST, LLC
18 MORNINGSIDE DRIVE
TOPSFIELD, MA 01963
LOT 14
SANDRA PONTERBIAND
NORMAN PONTERBIAND
4 BRICK ROAD
DOVER, NH 03820

PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC &
NORMAN & SANDRA PONTERBIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE

1"=10'
0' 10'

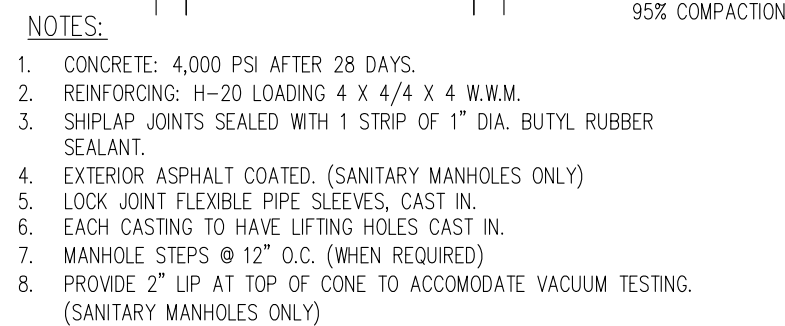
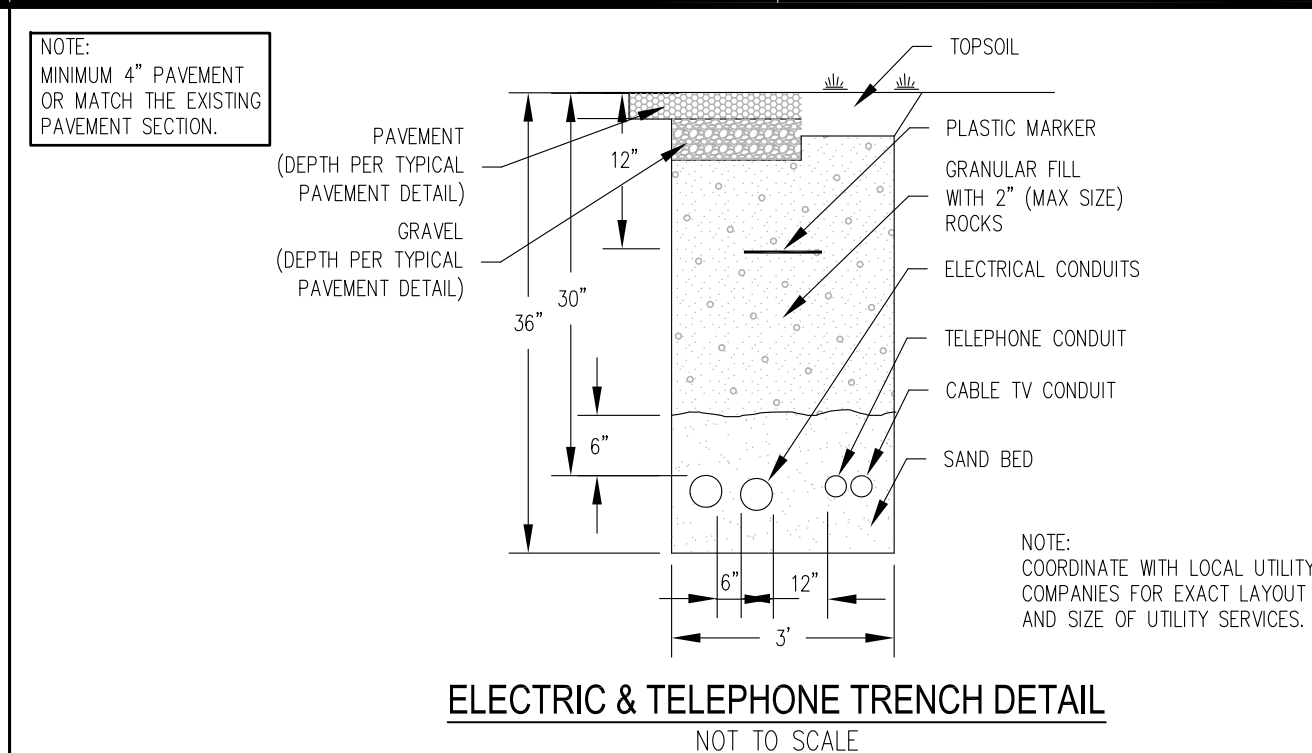
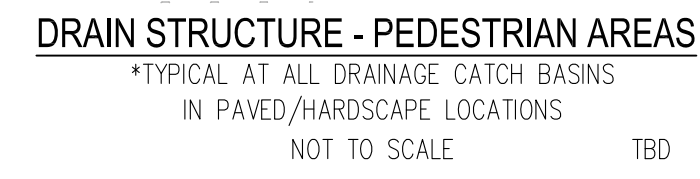
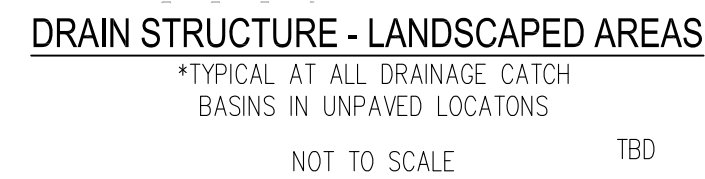
DATE: 8/11/2021
DRAWN BY: JAA/GRA
CHECKED BY: GRA
APPROVED BY: GRA

EROSION
CONTROL
PLAN

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

L6

SHEET: 8 OF 10



- NOTES:
1. REPLACE EXISTING SIDEWALK AT EAST WALKWAY WITH ADA COMPLIANT RAMP.
 2. MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF DOVER STANDARD SPECIFICATIONS.
 3. SIDEWALK WIDTHS SHALL BE EQUAL TO EXISTING WIDTH OR AS APPROVED AND SHALL SLOPE TO ACHIEVE ADA ACCESSIBLE REQUIREMENTS.
 4. DETECTABLE WARNING STRIPS SHALL BE CAST IRON.

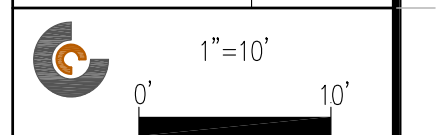


NO.	REVISIONS	INT.	DATE
2.	REVISE PER PARKING REVISIONS	GRA	10/06/21
1.	REVISE PER TRC REVIEW	JAA	09/15/21

RECORD OWNERS:
LOT 13
DOVER COAST, LLC
18 MORNINGSIDE DRIVE
TOPSFIELD, MA 01968
LOT 14
SANDRA POINTBRIAN
NORMAN POINTBRIAN
4 BRICK ROAD
DOVER, NH 03820

PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC &
NORMAND & SANDRA PONTBRIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STAFFORD COUNTY, NEW HAMPSHIRE

PREPARED FOR: AG ARCHITECTS, PC
CLIENT ADDRESS: 634 CENTRAL AVENUE, DOVER, NH 03820



DATE: 8/11/2021
DRAWN BY: JAA/GRA
CHECKED BY: GRA
APPROVED BY: GRA

CONSTRUCTION DETAILS

PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

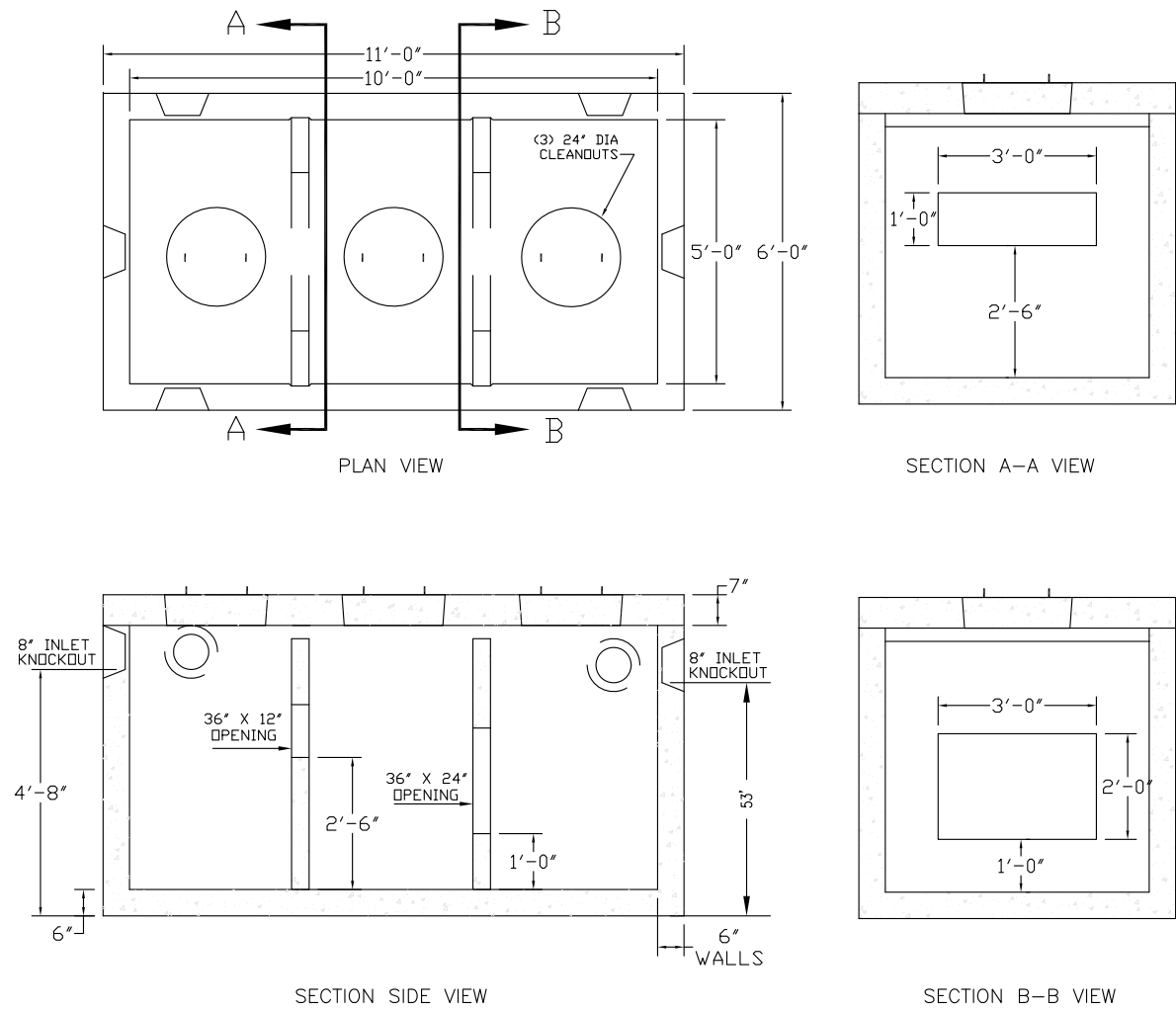
L7

SHEET: 9 OF 10



HANDICAP PARKING SIGN
NOT TO SCALE

HANDICAP PARKING LAYOUT
VAN ACCESSIBLE
NOT TO SCALE



NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGNED FOR AASHTO HS-20 LOADING, 1 TO 5 FT COVER ALSO AVAILABLE IN H-10 LOADING WITH 3" WALL.
3. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.

DETAIL INDICATED IS BASED ON SHEA CONCRETE PRODUCTS MODEL 1500 GALLON SEDIMENT AND OIL SEPARATOR.

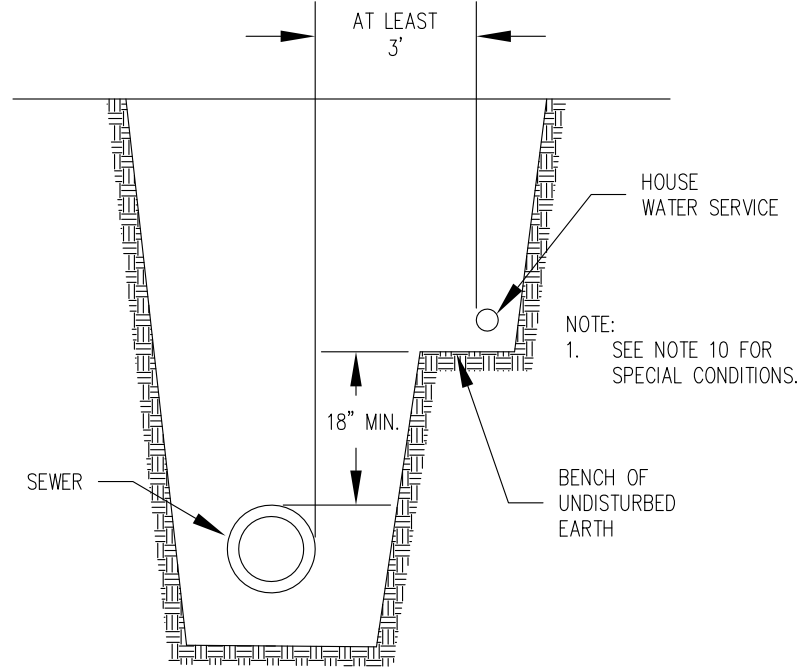
PRECAST OIL - WATER SEPARATOR
NOT TO SCALE

EXCAVATION NOTES:

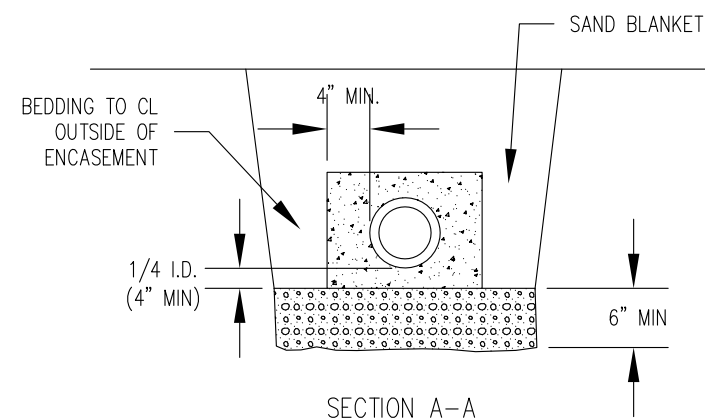
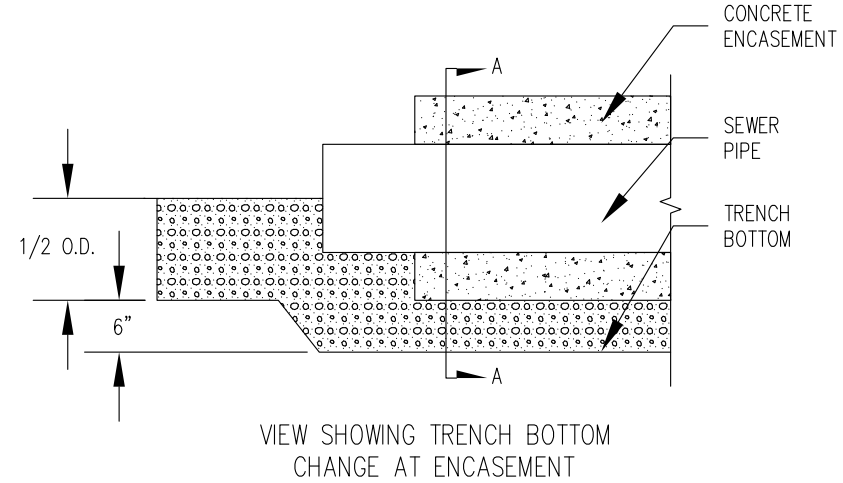
1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL: BELOW GRADE REFILL WITH BEDDING MATERIAL. SEE ALSO NOTE 7.
2. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO. 67
100% PASSING 1 INCH SCREEN
90-100% PASSING 3/4 INCH SCREEN
20-55% PASSING 3/8 INCH SCREEN
0-10% PASSING #4 SIEVE
0-5% PASSING #8 SIEVE
CRUSHED STONE 1/2 INCH - 1-1/2 INCH MAY BE USED INSTEAD OF SCREENED GRAVEL WHERE ALLOWED BY THE ENGINEER.
3. SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER SO GRADED THAT 90-100% PASSES A 1/2 INCH SIEVE AND NO MORE THAN 15% WILL PASS A #200 SIEVE.
4. SUITABLE MATERIAL IN ROADS, ROAD SHOULDERS, WALK-WAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OF SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIAMETER, OR ANY MATERIAL AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.

IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT AT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT, IF HE IS SATISFIED AT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE AND POSSIBLE RECONSTRUCTION, WHEN NECESSARY, WILL BE PRESERVED.
5. BASE COURSE: IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, (D.O.T.).
6. WOOD SHEETING IF REQUIRED, WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.
7. W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL IN DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D. W SHALL ALSO BE PAYMENT WIDTH FOR LEDGE EXCAVATION AND ORDERED EXCAVATION BELOW GRADE.
8. FOR CROSS COUNTRY CONSTRUCTION: BACKFILL OR FILL SHALL BE MOUND TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
9. CONCRETE FOR ENCASEMENT SHALL BE CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PS) CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS STANDARD SPECIFICATIONS AS FOLLOWS:
CEMENT - 6.0 BAGS/CY
AGGREGATE - 1" MAX.
WATER - 5.75 GALS./ BAG CEMENT
10. NEW HAMPSHIRE WATER SUPPLY AND POLLUTION COMMISSION (NHDES) DESIGN STANDARDS REQUIRE 10 FOOT SEPARATION. HOWEVER, SHOULD CONSTRUCTION OPERATIONS REVEAL OR EXPOSE A WATER LINE (MAIN OR SERVICE) RUNNING APPROXIMATELY PARALLEL AND LESS THAN 10 FEET HORIZONTAL FROM THE PROPOSED SEWER INSTALLATION AND WHERE IT IS NOT PRACTICABLE TO RELOCATE THE SEWER, THE FOLLOWING METHODS OF PROTECTION MUST BE EMPLOYED:

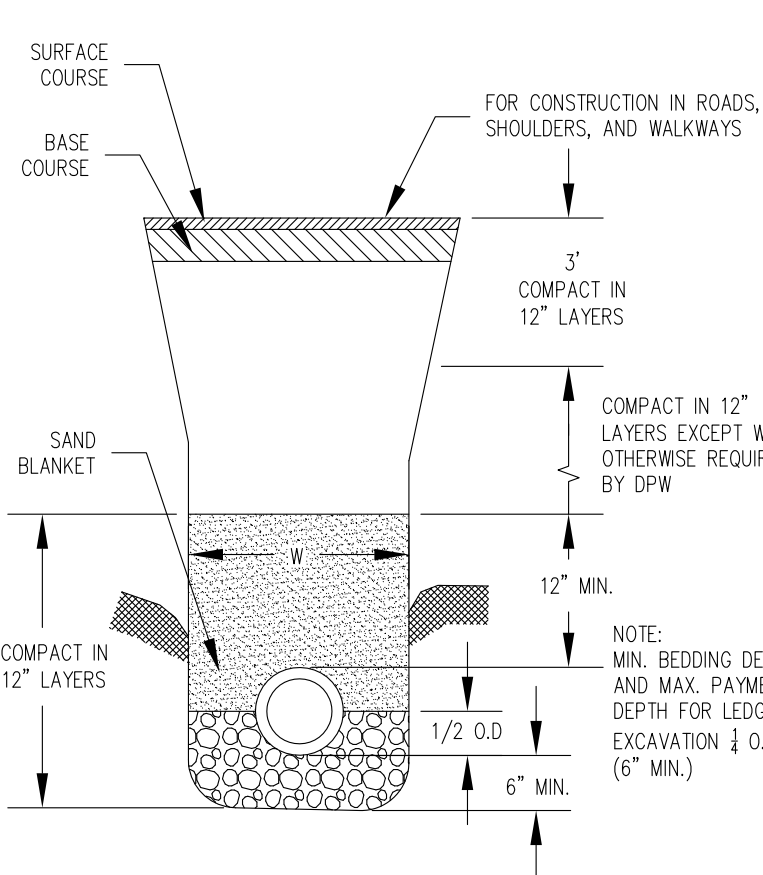
A. IF THE WATER LINE CAN BE KEPT 18 INCHES ABOVE AND 3 FEET TO ONE SIDE OF THE SEWER, AS SHOWN AND SUPPORTED ON A BENCH OF ORIGINAL SOIL, NO OTHER PROTECTION IS REQUIRED.
11. IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MIN.) BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.



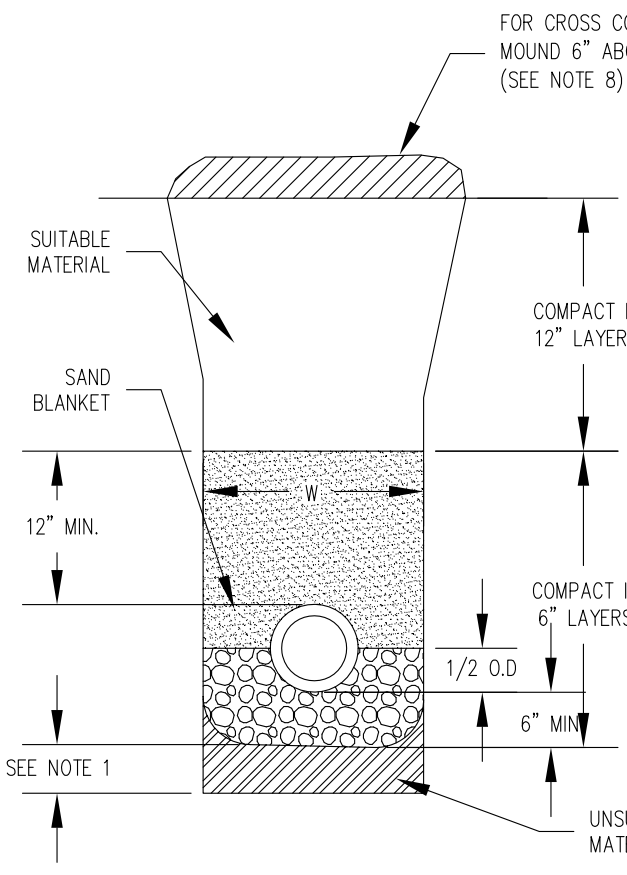
WATER AND SEWER IN SAME TRENCH
NOT TO SCALE



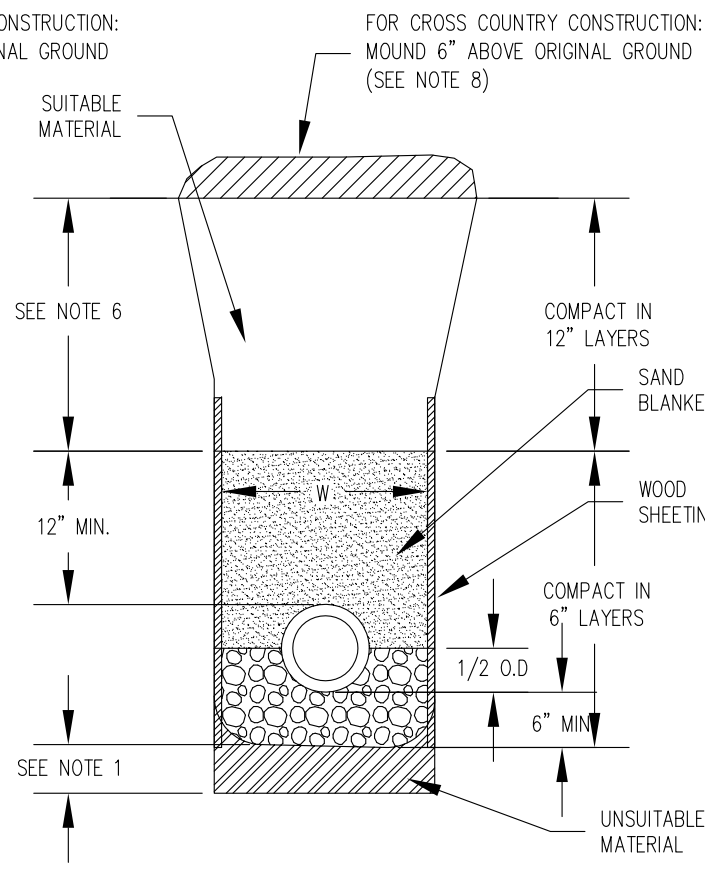
CONCRETE FULL ENCASEMENT
NOT TO SCALE



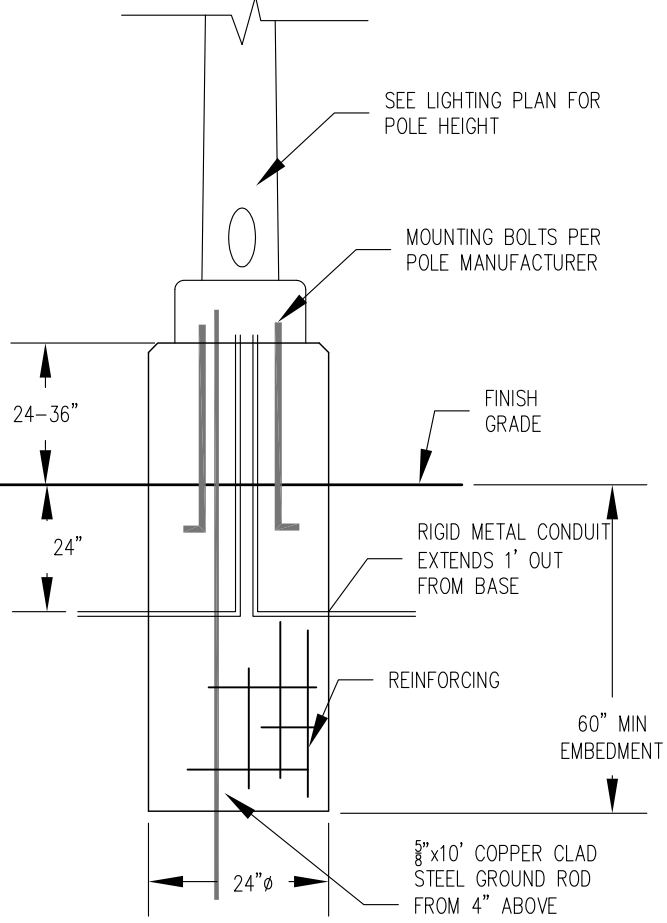
LEDGE CONSTRUCTION
NOT TO SCALE



EARTH CONSTRUCTION
NOT TO SCALE



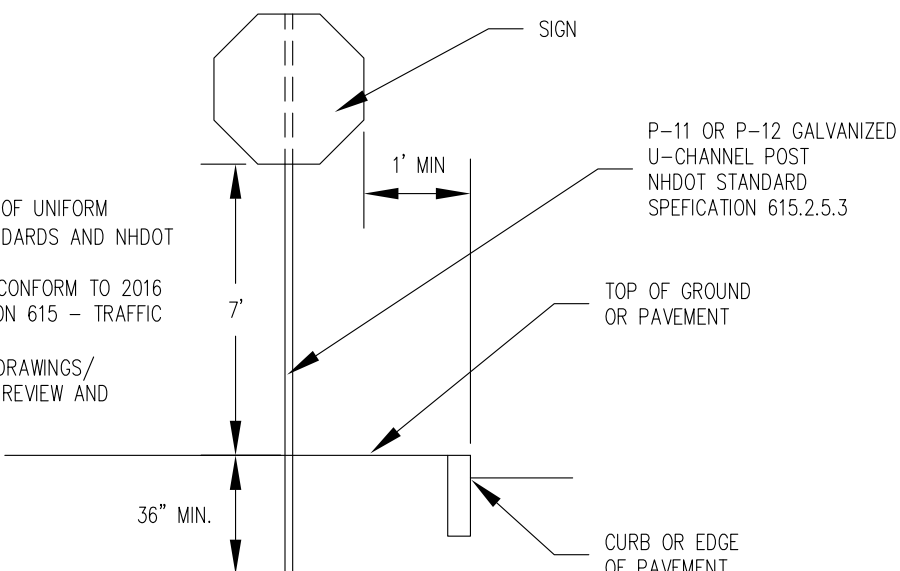
EARTH CONSTRUCTION WITH SHEETING
NOT TO SCALE



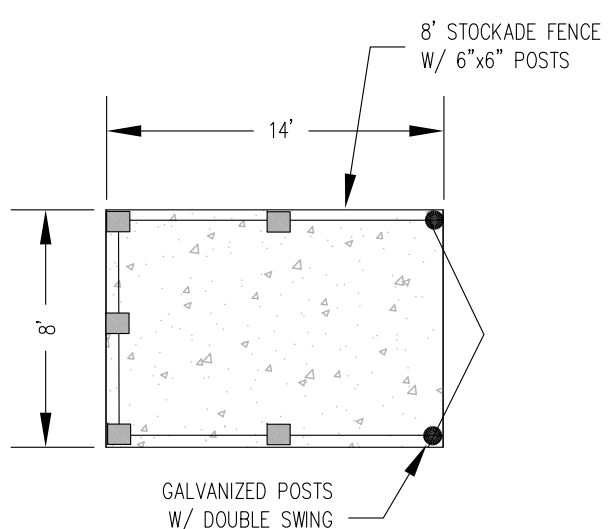
TYPICAL LIGHT POLE
NOT TO SCALE

NOTES:

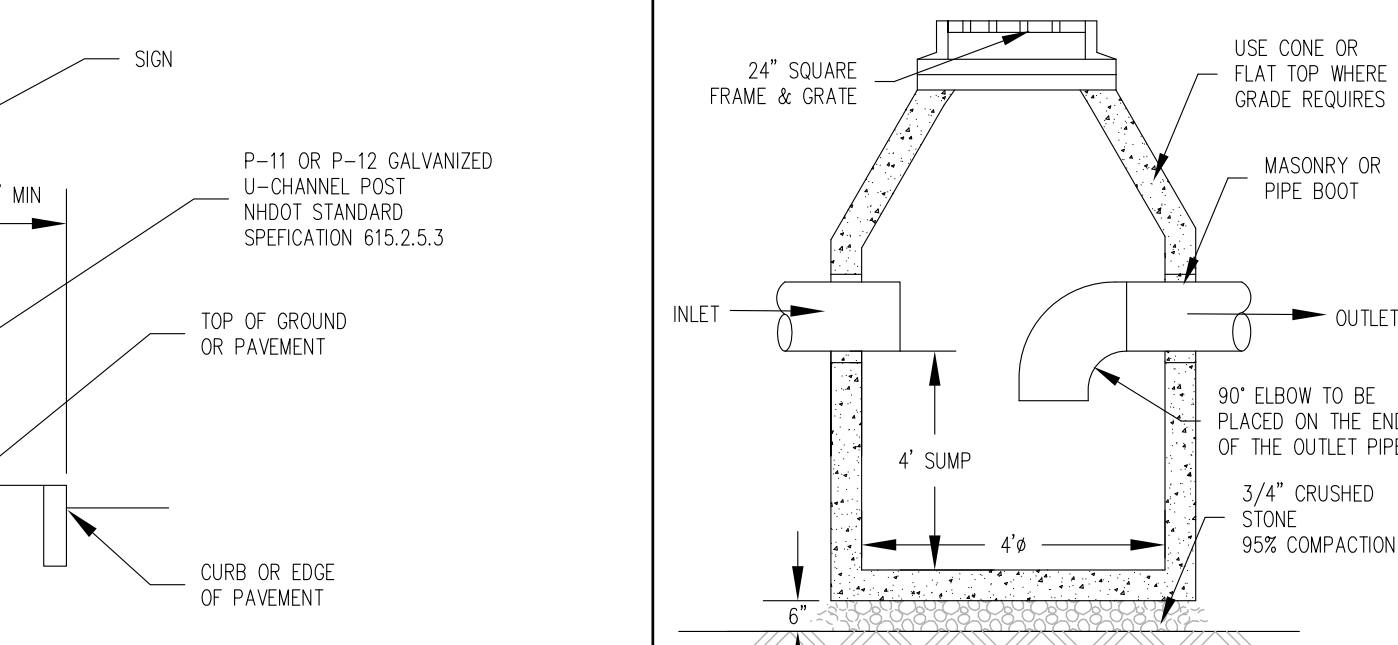
1. ALL SIGNAGE SHALL BE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND NHDOT STANDARDS.
2. SIGN, HARDWARE, AND INSTALLATION TO CONFORM TO 2016 NHDOT STANDARD SPECIFICATIONS, SECTION 615 - TRAFFIC SIGNS.
3. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS/CATALOGUE CUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ERECTING SIGNS.



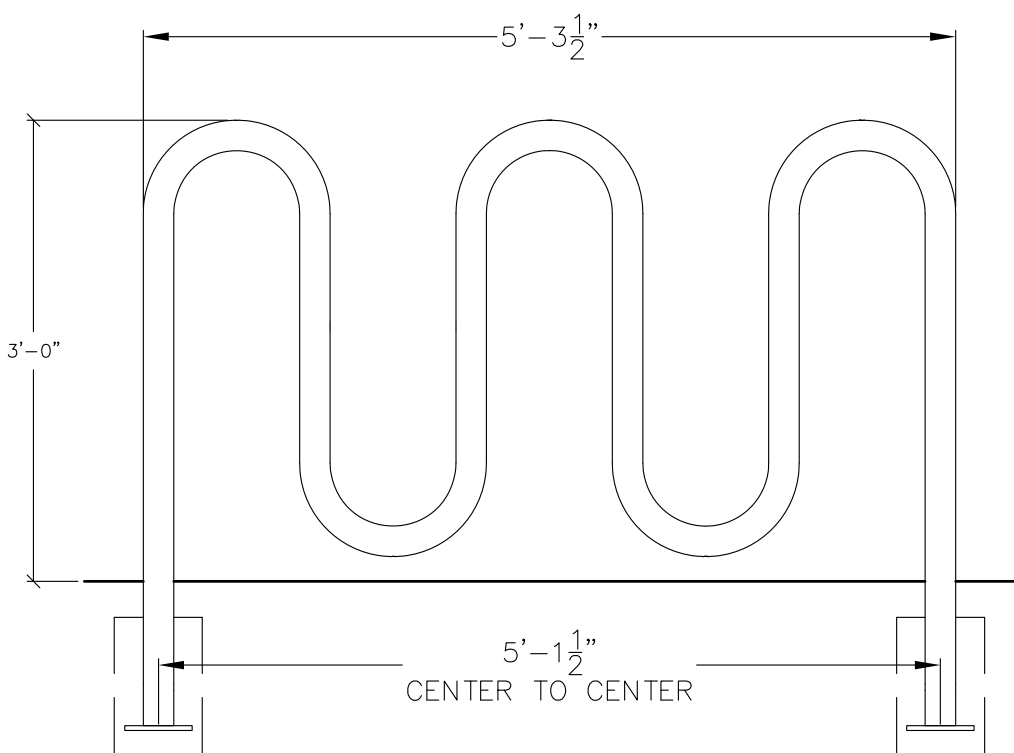
TYPICAL SIGN POST
NOT TO SCALE



DUMPSTER ENCLOSURE DETAIL
NOT TO SCALE

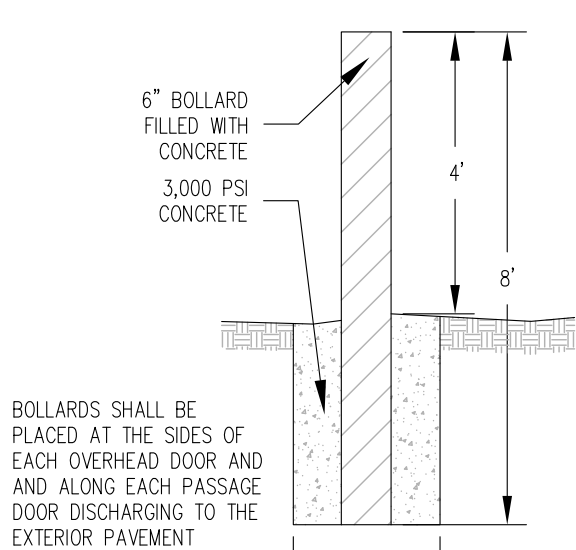


CATCH BASIN WITH ELBOW
NOT TO SCALE

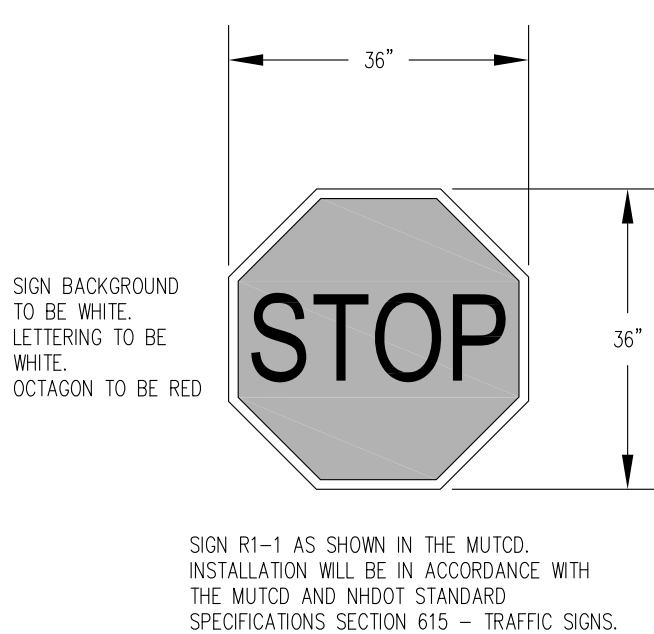


- NOTES:
1. VICTOR STANLEY BRCS-105 BIKE RACK OR EQUAL. INSTALL TO MANUFACTURERS REQUIREMENTS
 2. ALL METAL TO BE FINISHED WITH A POLYESTER POWDER COAT-BLACK

BIKE RACK DETAIL
SCALE: NTS



BOLLARD DETAIL
NOT TO SCALE



MUTCD R1-1
NOT TO SCALE



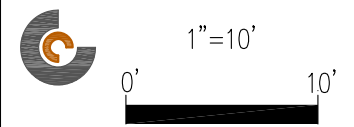
CIVIL CONSULTANTS
Engineers
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Surveyors
P.O. Box 100
South Berwick
Maine
03908
207-384-2550
www.civicon.com

DATE	INT.	GRA
10/06/21	JAA	09/15/21
2	REVISE PER PARKING REVISIONS	
1	REVISE PER TRC REVIEW	
	NO	

RECORD OWNERS:
LOT 13
DOVER COAST, LLC
18 MORNINGSTAR DRIVE
TOPSFIELD, MA 01963
LOT 14
SANDRA PONTERIAND
NORMAN PONTERIAND
4 BRICK ROAD
DOVER, NH 03820

PROPOSED SITE MODIFICATIONS
LAND OF DOVER COAST, LLC &
NORMAN & SANDRA PONTERIAND
725-727 CENTRAL AVENUE - TAX MAP 28, LOTS 13 & 14
DOVER, STRAFFORD COUNTY, NEW HAMPSHIRE

PREPARED FOR:
AG ARCHITECTS, PC
634 CENTRAL AVENUE, DOVER, NH 03820
CLIENT ADDRESS:



DATE: 8/11/2021
DRAWN BY: JAA/JAA
CHECKED BY: GRA
APPROVED BY: GRA

CONSTRUCTION DETAILS

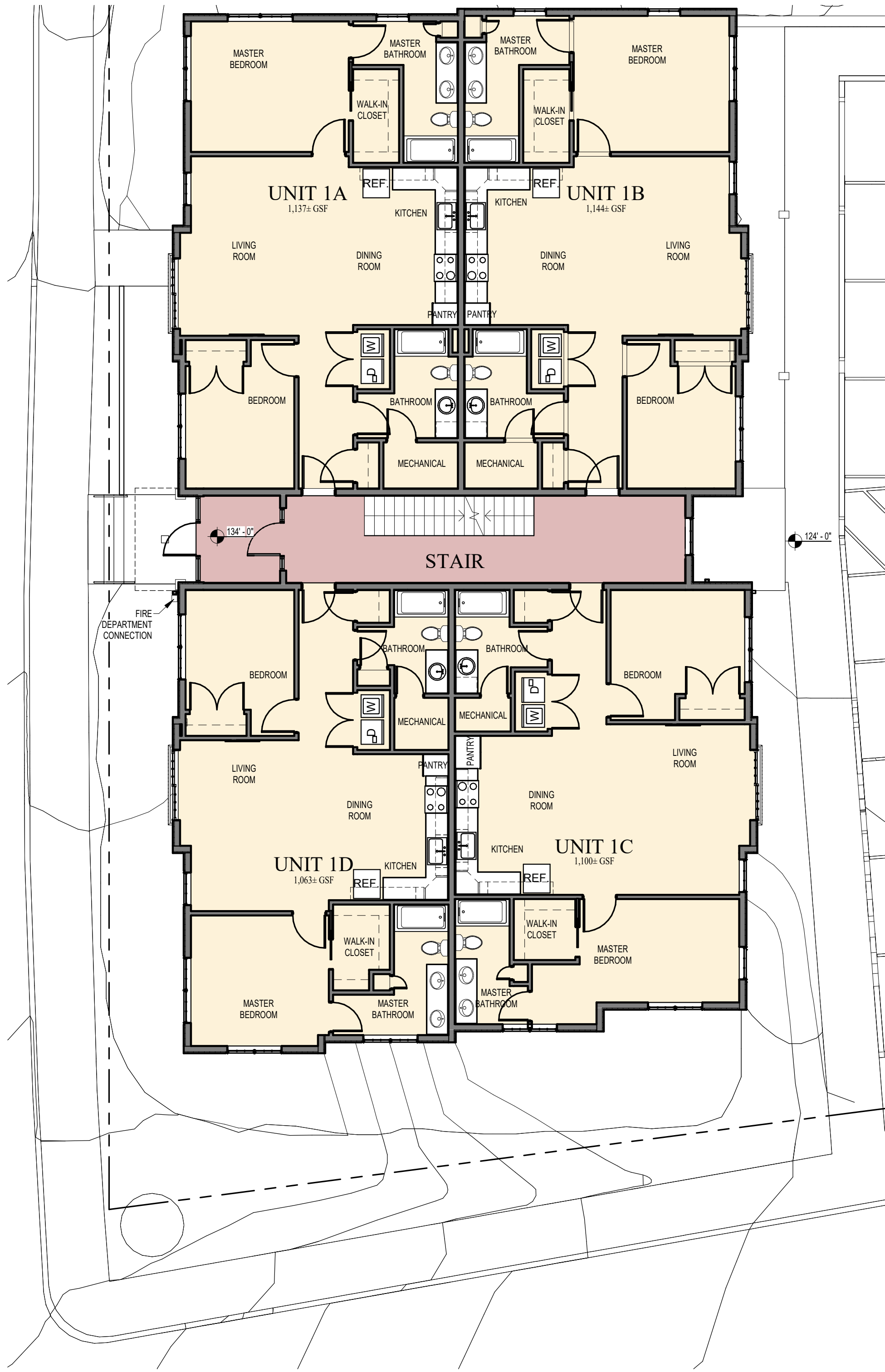
PROJECT NO: 21-178.00
DOVER PLANNING FILE: P21-53

L8

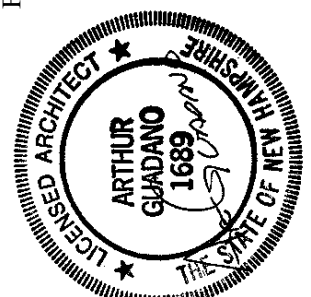
SHEET: 10 OF 10



1 Basement Floor Plan

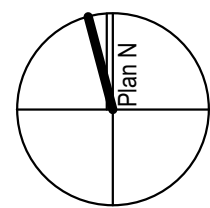


2 First Floor Plan



725 Central Ave. Apartments

Dover, New Hampshire



© AG Architects, PC
Consultant:

- Revisions:
- 9 September 2021, Update
 - 6 October 2021, Revise Per Parking Revision

Date:	31 August 2021
Scale:	1/8" = 1'-0"
Drawn By:	JG
Checked By:	AG
Sheet:	1 of 5
Project No.:	20-784.1

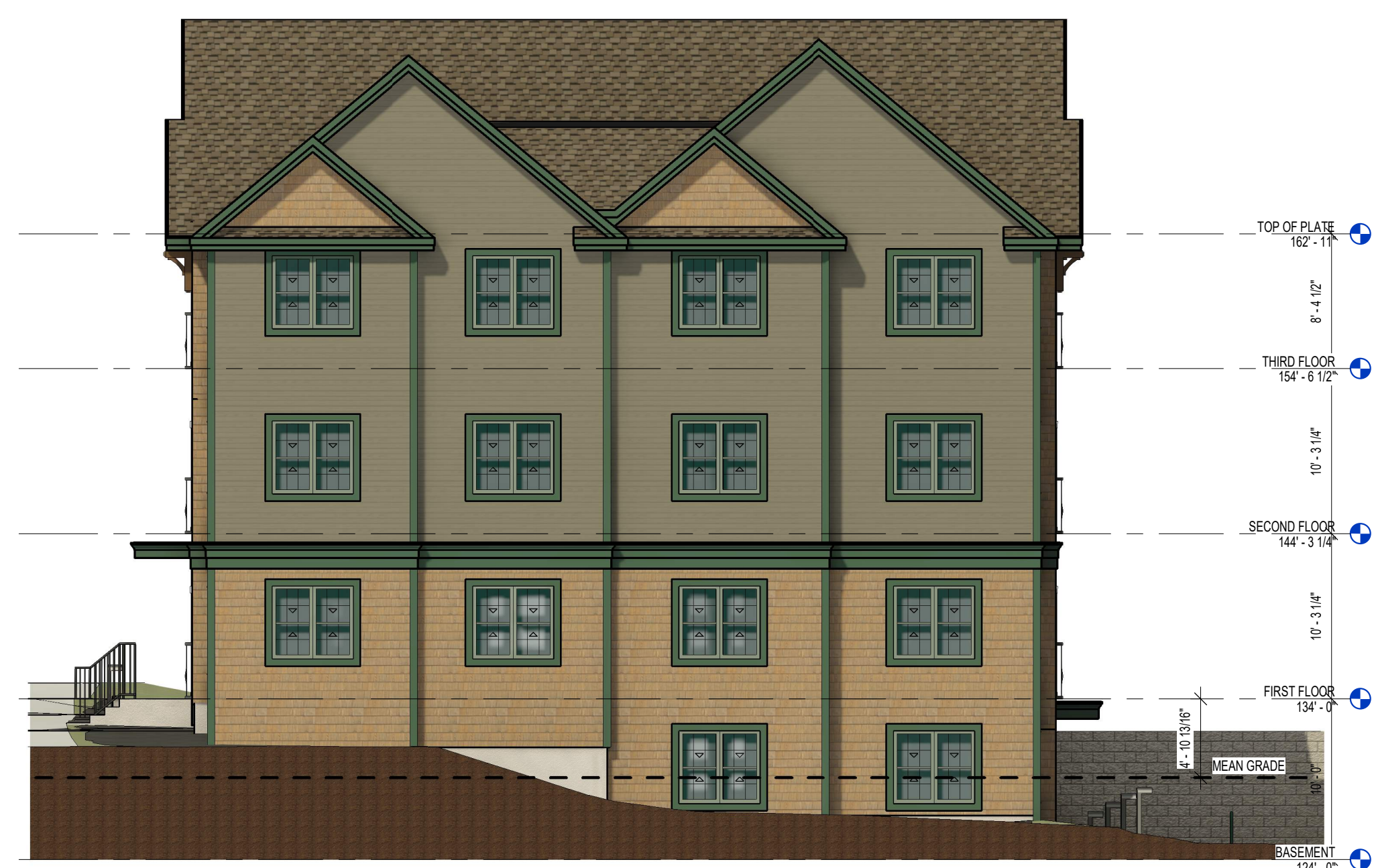
Sheet Title:
Proposed Basement and First
Floor Plans

Sheet Number: File #P21-53

A2.1



① West Elevation
1" = 4' 0"
1/8" = 1'-0"



② South Elevation
1" = 4' 0"
1/8" = 1'-0"



③ East Elevation
1" = 4' 0"
1/8" = 1'-0"



④ North Elevation
1" = 4' 0"
1/8" = 1'-0"

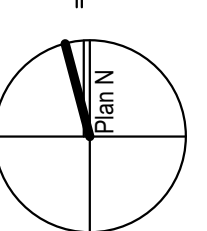


⑤ Central Avenue View



⑥ Parking Lot View

725 Central Ave. Apartments Dover, New Hampshire



AG Architects, PC Consultant:	
Revisions: 1. 9 September 2021, Update 2. 6 October 2021, Revise Per Parking Revision	
Date:	31 August 2021
Scale:	As indicated
Drawn By: JG	Checked By: AG
Sheet: 4 of 5	Project No.: 20-784.1
Sheet Title: Proposed Exterior Elevations and Renderings	
Sheet Number:	File #P21-53
A4.1	



① Brick Road North

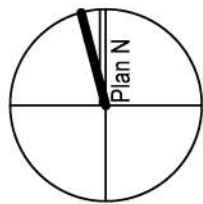


② Central Avenue East



③ Brick Road South

725 Central Ave. Apartments
Dover, New Hampshire



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Revisions: 1. 9 September 2021, Update 2. 6 October 2021, Update	
Date:	31 August 2021
Scale:	1/8" = 1'-0"
Drawn By:	JG
Checked By:	AG
Sheet:	5 of 5
Project No.:	20-784.1
Sheet Title: Streetscapes	
Sheet Number:	File #P21-53

