Cape Cod Pilgrim Memorial Association
Bradford Access Project
Maintenance-Access-Security-Traffic Protocols

Maintenance:

A 5-year maintenance contract will be in force at the initiation of the funicular with Outdoor Engineers, Inc. with a minimum of a twice (2x) yearly comprehensive maintenance schedule to include but not limited to: the cabin, the motor & electronics/mechanics, doors, and associated mechanicals.

Daily operational checks of the funicular at 0700, 1200, 1500, 1700, 1900 will be conducted to include but not limited to: door operations, motor performance, track obstructions, cabin cleanliness, and general funicular operations.

Daily grounds maintenance of the pavilion, queuing area, pavement, rubbish containers, and etc. with specific checks at 0700, 1200, 1500, 1700, 1900 will be conducted.

Access:

The funicular will be operational 365 days a year. **NOTE:** It is necessary to operate the funicular daily to ensure track and operational safety.

Operational is defined as being in "top-peak" performance/working order. For example: February Valentine's Day Weekend or a Federal Holiday like President's Day Weekend-When the Monument and Museum will be open from 09:00-17:00 Friday-Saturday-Sunday, the funicular will be in operation. The PMPM Parking Lot will be plowed and the Monument and Museum will be open for visitors.

The funicular will be open during ALL operational hours of the Monument and Museum, including Grounds Rental Events. **NOTE:** Ground rental events generally end by 23:00 hours and are staffed by attendant(s). The CCPMA provides service to our guests by having access to our parking lot following a ground rental events. Once the event is concluded, the funicular will be returned to the top for the remainder of the evening.

The funicular will be staffed. The CCPMA reserves the right to determine staffing requirements after 12 months of regular operation.

An automated ticket (online-physical) process will be enabled-so that patrons may purchase tickets online via the PMPM Website and via a permanent ticket kiosk located at the pavilion. Tickets will enable patrons to travel the funicular and visit the Pilgrim Monument and Provincetown Museum.

Security:

The funicular (and associated areas of property owned by the CCPMA including the Monument, Parking Lot, and Grounds) will be fully secured by video surveillance, including the grounds, the funicular "park" and inside the funicular cabin.

The security system of the funicular will be tied into the main monitoring system of the Pilgrim Monument and Provincetown Museum.

Staff attendant(s) will act as on-site security and will have walkie-talkie communications to the Museum administrative staff.

Traffic Monitoring:

During the first 12 months of operation, PMPM Staff will be assigned to funicular operations to assist in monitoring vehicular and pedestrian traffic within the vicinity of the pavilion/park.

The monitoring program will focus on peak conditions during the summer, grounds rentals, events, and weekends with the funicular use is expected to be higher.

PMPM Staff will monitor vehicular traffic operations to ensure vehicles DO NOT stop at the site to drop-off patrons. PMPM Staff will be trained to manage vehicular traffic to the PMPM parking lot or other public parking facilities.

[illegible]

regards to safety.

If pedestrian demands for the funicular begin to exceed capacity within the pavilion/park, PMPM Staff will assist patrons to a safe waiting zone and will have the ability to cease funicular operations until pedestrian traffic has reduced.

BOLD

PILGRIM MONUMENT - BRADFORD ACCESS

PILGRIM MONUMENT & PROVINCETOWN MUSEUM

ISSUED FOR PLANNING BOARD MEETING

9/14/2018

REVISION: 0

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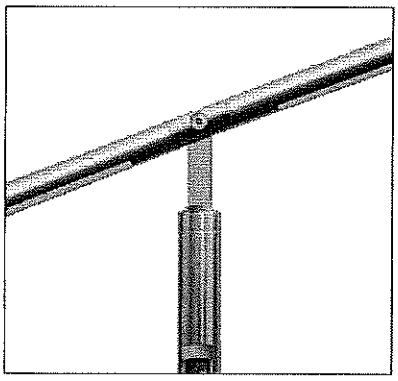
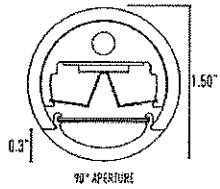
Description	Location	Type
POST MOUNTED, ASYMMETRIC ILLUMINATED CURVED HANDRAIL WITH INTEGRAL POWER SUPPLIES.	WALK PATH	LA-01

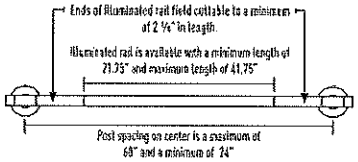
IVR15-SPI

1.6" Solid State Illuminated Rail
2" Post Integral Power Supply

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	







PHOTOMETRIC DATA

- LED: 4.6W High Output
- CCT: 3500K
- Illuminated Rail Length: 41"
- Rail Height: 36"
- Post Spacing: 48"

3'	.11	.11	.11	.11	.11
2'	.22	.22	.22	.22	.22
1'	.30	.31	.32	.31	.30
1'	.30	.31	.32	.31	.30
2'	.22	.22	.22	.22	.22
3'	.11	.11	.11	.11	.11

40° Flood

3'	.5	.5	.5	.5	.5
..	.19	.19	.19	.19	.19
1'	.53	.54	.55	.54	.53
1'	.53	.54	.55	.54	.53
2'	.17	.17	.18	.17	.17
3'	.5	.5	.5	.5	.5

35° Narrow

3'	.4	.4	.4	.4	.4
2'	.9	.9	.9	.9	.9
1'	.20	.20	.20	.20	.20
1'	.33	.33	.34	.33	.33
2'	.23	.23	.23	.23	.23
3'	.10	.10	.10	.10	.10

30° Asymmetrical

CONSTRUCTION

Internal Rail Construction: Heavy duty extruded 6061-T6 Aluminum Alloy.
External Rail Jacket: Available in 304 or 316 stainless steel. Consult factory for custom powder coat finishes (AAMA 2604).

LED LIGHT SOURCE

Closely packed array of small LEDs allow for smooth seamless illumination with immediate overlap to avoid pixelation and provide a continuous flow of light. Color temperatures options include 2700K, 3000K, 3500K or 4000K.

- 86 CRI
- 50,000 hours of average rated life at 70% output
- LED components are easily accessible to allow for easy maintenance

LED LIGHT ENGINE (PER FOOT)

- System Power Consumption: 4.6W
- Cool White 4000K: 219 lm
- Neutral White 3500K: 207 lm
- Warm White 3000K: 202 lm
- Warm White 2700K: 194 lm

OPTICAL SYSTEM

Innovative optical system includes integral reflector and light shaping diffuser. 92% Transmission efficiency provides precise shaping, control and distribution of light. High-impact acrylic lens is secured with (2) countersunk flush screws, (1) at each end. Distributions include flood, narrow and asymmetric.

MOUNTING / INSTALLATION

Each rail support is secured to the swivel mount on specified mounting system. Post or embedded mount is available. See mounting submittal sheets for detailed information.

EMERGENCY

Remote emergency inverter available. Can be remote up to 1000 ft. available. See IB-HS specification sheet.

WARRANTY / LISTINGS

- 5-Year Intense LED Limited Warranty (LED & Power Supply Only)
- ETL Wet Location Listed
- IDA Approved
- ADA Compliant
- 2013 Next Generation Luminaires - "Recognized Winner"

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PILGRIM MONUMENT - BRADFORD ACCESS
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BOLD

Fixture Information				
Manufacturer	Part Number			
INTENSE LIGHTING	#(IVR15-SPI-C-*36-HO-27-30AS-I)-(CURVED CUSTOM-SDA)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POST MOUNTED	3-WIRE	4.6 W/ft.	PER EE	INTEGRAL ELECT

Source Info				
Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	4.6 W	2700K

Notes

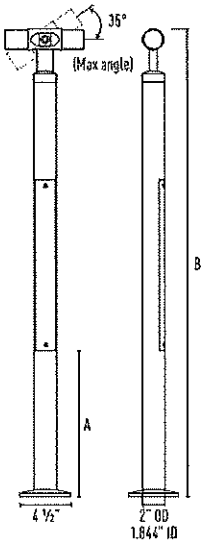
FIXTURE INTENDED TO BE SELF ILLUMINATED HANDRAIL SYSTEM WITH ASYMMETRIC LIGHT DISTRIBUTION FOR NO SPILL LIGHT OUTSIDE OF PROPERTY LINE. ARCHITECT TO CONFIRM IF POST MOUNTING OR EMBEDDED MOUNTING WILL BE REQUIRED. LANDSCAPE ARCHITECT TO CONFIRM IF INFILL IS REQUIRED. VERIFY FIXTURE FINISH PER ARCHITECT. MANUFACTURER MUST PROVIDE SHOP DRAWINGS INDICATING RUN OF LENGTH, LOCATION OF POST, ETC. PRIOR TO FINAL PROCUREMENT OF RAIL SYSTEM.

Description	Location	Type
POST MOUNTED, ASYMMETRIC ILLUMINATED CURVED HANDRAIL WITH INTEGRAL POWER SUPPLIES.	WALK PATH	LA-01

IVR15-SPI

2" Post Mount Assembly

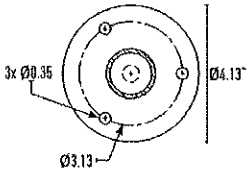
JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



DIMENSIONS

	Guardrail	Handrail
A	17"	14"
B	42"	36"

BASE SPECIFICATION



CONSTRUCTION
Post mount assembly is available in No.4 polished 304 stainless steel. Consult factory for custom powder coat finishes (AAMA 2604).

MAINTENANCE
Posts include a driver access door where power supply components are easily accessible. Tamper proof hardware and special tools are standard and included.

POWER SUPPLY
Lutron Hi-Lumo® A-Series Driver is a high-performance LED driver that provides smooth, continuous 1% dimming.
See driver specifications.

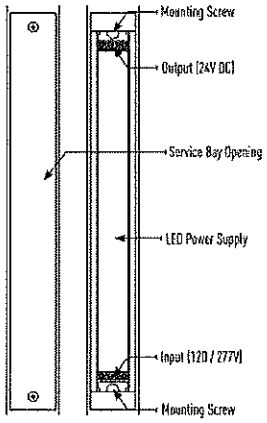
- Dimming Range: 100% to 1%
- Operating Voltage: 120-277V @ 50/60Hz
- Rated lifetime of 50,000 hrs. @ t_c = 65°C
- Power Factor: > 0.9 at 40W
- Standby Power Consumption: < 1.8W
- Total Harmonic Distortion: < 20% at 40W
- Inrush Current: < 2A

MOUNTING / INSTALLATION
Post are to be spaced at a maximum of 60" and minimum of 24" on centers. Post mount is to be surface mounted to concrete utilizing ⅜" anchor bolts (supplied by others). Anchoring means must be determined by local codes. Not to be supplied or engineered by Intense Lighting. See post mount installation chart for more information. Anchorage template available by request.

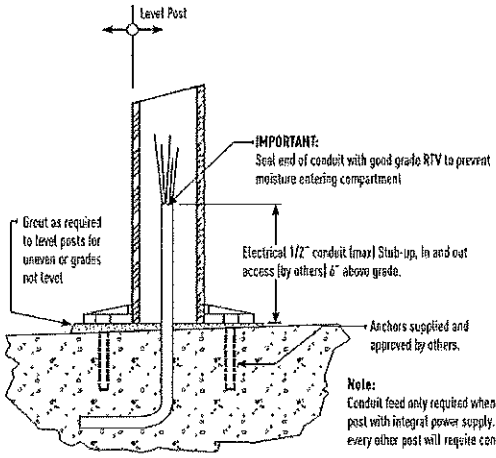
OPERATION
Post with integral power supply will power up to 63 ½" of illuminated rail.

FITTINGS
Consult factory for standard fittings and epoxy weld adhesive specification.

Post Specification



Post Mount Installation Detail



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PILGRIM MONUMENT - BRADFORD ACCESS
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Fixture Information

Manufacturer	Part Number			
INTENSE LIGHTING	#(IVR15-SPI-C-*36-HO-27-30AS-I)-(CURVED CUSTOM-SDA)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POST MOUNTED	3-WIRE	4.6 W/ft.	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	4.6 W	2700K

Notes

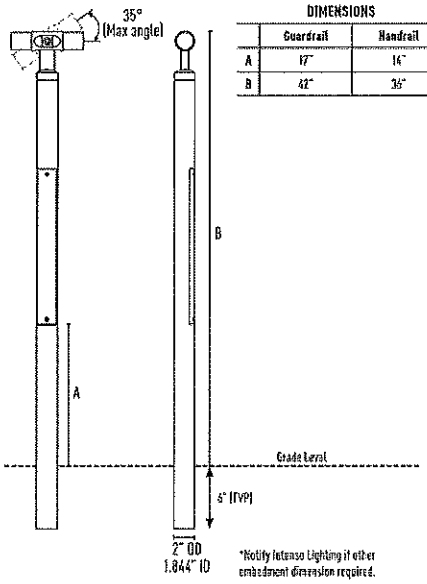
FIXTURE INTENDED TO BE SELF ILLUMINATED HANDRAIL SYSTEM WITH ASYMMETRIC LIGHT DISTRIBUTION FOR NO SPILL LIGHT OUTSIDE OF PROPERTY LINE. ARCHITECT TO CONFIRM IF POST MOUNTING OR EMBEDDED MOUNTING WILL BE REQUIRED. LANDSCAPE ARCHITECT TO CONFIRM IF INFILL IS REQUIRED. VERIFY FIXTURE FINISH PER ARCHITECT. MANUFACTURER MUST PROVIDE SHOP DRAWINGS INDICATING RUN OF LENGTH, LOCATION OF POST, ETC. PRIOR TO FINAL PROCUREMENT OF RAIL SYSTEM.

Description	Location	Type
POST MOUNTED, ASYMMETRIC ILLUMINATED CURVED HANDRAIL WITH INTEGRAL POWER SUPPLIES.	WALK PATH	LA-01

IVR15-SPI

2" Post Embedded Assembly

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



DIMENSIONS

	Guardrail	Handrail
A	17"	14"
B	42"	36"

CONSTRUCTION
Post mount assembly is available in No.4 polished 304 stainless steel. Consult factory for custom powder coat finishes (AAMA 2604).

MAINTENANCE
Posts include a driver access door where power supply components are easily accessible. Tamper proof hardware and special tools are standard and included.

POWER SUPPLY
Lutron Hi-Lume® A-Series Driver is a high-performance LED driver that provides smooth, continuous 1% dimming.
See driver specifications.

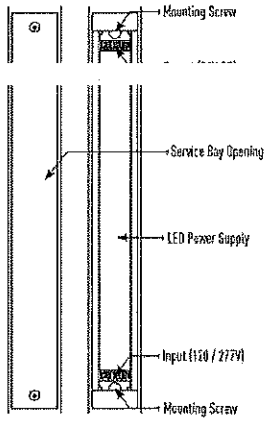
- Dimming Range: 100% to 1%
- Operating Voltage: 120-277V @ 50/60Hz
- Rated lifetime of 50,000 hrs. @ t_c = 65°C
- Power Factor: > 0.9 at 40W
- Standby Power Consumption: < 1.0W
- Total Harmonic Distortion: < 20% at 40W
- Inrush Current: < 2A

MOUNTING / INSTALLATION
Post are to be spaced at a maximum of 60" and minimum of 24" on centers. Embedded mount post are set into place using Rockite® or Kwikset® anchor cement. A minimum of 6" post must be embedded into concrete to structurally secure post. Anchoring means must be determined by local codes. Not to be supplied or engineered by Intense Lighting. See Embedded Mount Installation chart for more information.

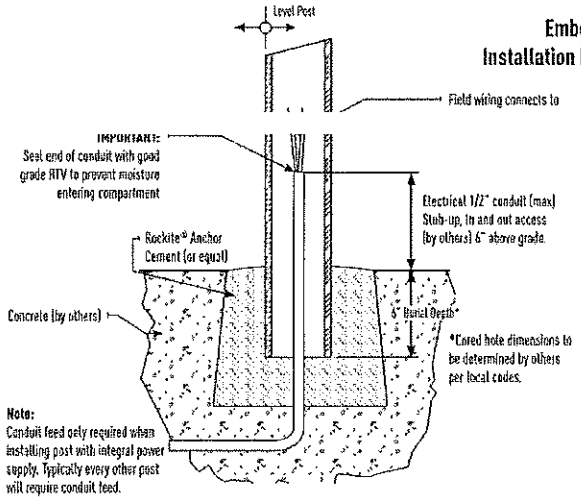
OPERATION
Post with integral power supply will power up-to 83 1/2" of illuminated rail.

FITTINGS
Consult factory for standard fittings and epoxy weld adhesive specification.

Post Specification



Embedded Installation Detail



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Fixture Information					
Manufacturer	Part Number				
INTENSE LIGHTING	#(IVR15-SPI-C-*36-HO-27-30AS-I)-(CURVED CUSTOM-SDA)				
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr	
POST MOUNTED	3-WIRE	4.6 W/ft.	PER EE	INTEGRAL ELECT	

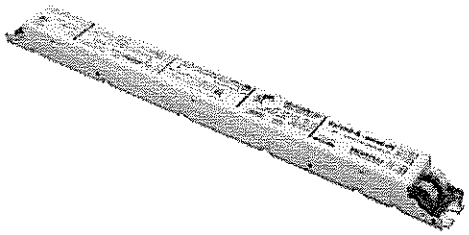
Source Info				
Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	4.6 W	2700K

Notes
FIXTURE INTENDED TO BE SELF ILLUMINATED HANDRAIL SYSTEM WITH ASYMMETRIC LIGHT DISTRIBUTION FOR NO SPILL LIGHT OUTSIDE OF PROPERTY LINE. ARCHITECT TO CONFIRM IF POST MOUNTING OR EMBEDDED MOUNTING WILL BE REQUIRED. LANDSCAPE ARCHITECT TO CONFIRM IF INFILL IS REQUIRED. VERIFY FIXTURE FINISH PER ARCHITECT. MANUFACTURER MUST PROVIDE SHOP DRAWINGS INDICATING RUN OF LENGTH, LOCATION OF POST, ETC. PRIOR TO FINAL PROCUREMENT OF RAIL SYSTEM.

Description	Location	Type
POST MOUNTED, ASYMMETRIC ILLUMINATED CURVED HANDRAIL WITH INTEGRAL POWER SUPPLIES.	WALK PATH	LA-01

Lutron Hi-lume® A-Series Driver

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



Width: 1.18" Height: 1.00" Length: 14.25"

Maximum Driver-to-LED Light Engine Wire Length	
Wire Gauge	Maximum Lead Length
18	15 ft (4.5 m)
16	25 ft (7.5 m)
14	40 ft (12 m)
12	60 ft (18 m)

DESCRIPTION

Hi-lume® A-Series Driver is a high-performance LED driver that provides smooth, continuous 1% dimming.

FEATURES

- Continuous, flicker free dimming from 100% to 1%
- Compactible with Energi Savr Node™ with EcoSystem® unit, QS control unit, PowPak® dimming allowing for integration into a planned or existing EcoSystem® lighting control solution.
- Standard 3-wire line-voltage phase-control technology for consistent dimming performance and compatibility with all Lutron® 3-wire fluorescent controls.
- Rated lifetime of 50,000 hours @ t_c = 65°C
- UL recognized for United States and Canada
- RoHS Compliant
- Constant Voltage Driver with Pulse Width Modulation (PWM) dimming

PERFORMANCE

- Dimming Range: 100% to 1%
- Operating Voltage: 120-277V ~ at 50/60Hz
- Rated lifetime of 50,000 hours @ t_c = 65°C
- Patented thermal foldback protection
- LEDs turn on to any dimmed level without going to full brightness
- Nonvolatile memory restores all driver settings after power failure
- Power Factor: > 0.9 at 40W
- Standby Power Consumption: < 1.0W
- Total Harmonic Distortion (THD): < 20% at 40W
- Inrush Current: < 2A
- Inrush Current Limiting Circuitry: eliminates circuit breaker tripping, switch arcing and relay failure
- Open circuit protected
- Short circuit protected
- Turn-on time: < 1 second
- PWM Dimming Frequency: 650Hz

ENVIRONMENTAL

- Sound Rating: Class A
- Relative Humidity: Maximum 90% non-condensing
- Minimum operating ambient temperature t_a = 32°F (0°C)

STANDARDS

- Meets ANSI C62.41 category A surge protection standards up to and including 4 kV
- FCC Part 15 compliant for commercial applications at 120V ~ or 277V ~
- UL 8750 recognized

DRIVER WIRING AND MOUNTING

- Terminal blocks on the driver accept one solid wire per terminal from 18 to 16 AWG (0.75 to 1.5 mm²)
- Fixture must be grounded in accordance with local and national electrical codes

LISTINGS

- UL Recognized for United States and Canada
- RoHS Compliant
- FCC Compliant

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Fixture Information

Manufacturer	Part Number			
INTENSE LIGHTING	#(IVR15-SPI-C-*36-HO-27-30AS-I)-(CURVED CUSTOM-SDA)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POST MOUNTED	3-WIRE	4.6 W/ft.	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	4.6 W	2700K

Notes

FIXTURE INTENDED TO BE SELF ILLUMINATED HANDRAIL SYSTEM WITH ASYMMETRIC LIGHT DISTRIBUTION FOR NO SPILL LIGHT OUTSIDE OF PROPERTY LINE. ARCHITECT TO CONFIRM IF POST MOUNTING OR EMBEDDED MOUNTING WILL BE REQUIRED. LANDSCAPE ARCHITECT TO CONFIRM IF INFILL IS REQUIRED. VERIFY FIXTURE FINISH PER ARCHITECT. MANUFACTURER MUST PROVIDE SHOP DRAWINGS INDICATING RUN OF LENGTH, LOCATION OF POST, ETC. PRIOR TO FINAL PROCUREMENT OF RAIL SYSTEM.

Description	Location	Type
POST MOUNTED, ASYMMETRIC ILLUMINATED CURVED HANDRAIL WITH INTEGRAL POWER SUPPLIES.	WALK PATH	LA-01

IVR15-SPI

1.5" Solid State Illuminated Rail

Specification Guide

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

V-Rail Part Number (Example: IVR15-SPI-ST-P36-H027-60S
(Specify Quantity By Feet)

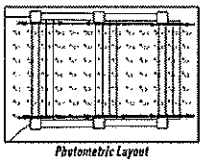
A: Family	B: Finish	C: Mounting/Height	D: LED Output	E: CCT	F: Light Distribution	G: Electrical	H: Options
IVR15-SPI	○ -ST (304 Stainless Steel)[1] ○ -C (Custom)[2]	○ -P36 (36" Post Mount) ○ -P42 (42" Post Mount) ○ -E36 (36" Embedded Mount) ○ -E42 (42"Embedded Mount)	○ -HO (High Output 4.6W)	○ 27 (2700K) ○ 30 (3000K) ○ 35 (3500K) ○ 40 (4000K)	○ -60S (60° Flood) ○ -35S (35° Narrow) ○ -30AS (30° Asymmetric)	○ 0/Dark (24V Input)	○ -L (Inst.RLL)[3]

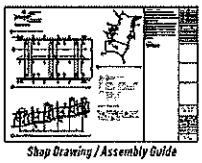
Notes:
1. 316 Stainless steel available by special order
2. Special order, consult factory
3. No LED (rail only), see IVR15-HPS

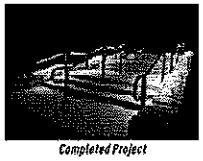
Specification and Delivery Process

Architectural drawings or detailed elevation drawings are required for a V-Rail quotation. A photometric layout will be provided if requested. Once an order is placed, Intense Lighting will provide detailed shop drawings for approval.

V-Rail will be delivered to the job site ready for installation. A detailed assembly drawing will be provided along with dimensions and locations for remote power supplies. All products included will be labeled clearly to match the assembly drawing. Certain tools and equipment will be required for the assembly of V-Rail. A detailed list of tools can be found in the V-Rail Installation Guide. Installation guide available upon request, consult factory.


Photometric Layout


Shop Drawing / Assembly Guide


Completed Project

Notes:

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Fixture Information					
Manufacturer	Part Number				
INTENSE LIGHTING	#(IVR15-SPI-C-*36-HO-27-30AS-I)-(CURVED CUSTOM-SDA)				
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr	
POST MOUNTED	3-WIRE	4.6 W/ft.	PER EE	INTEGRAL ELECT	

Source Info				
Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	4.6 W	2700K

Notes: FIXTURE INTENDED TO BE SELF ILLUMINATED HANDRAIL SYSTEM WITH ASYMMETRIC LIGHT DISTRIBUTION FOR NO SPILL LIGHT OUTSIDE OF PROPERTY LINE. ARCHITECT TO CONFIRM IF POST MOUNTING OR EMBEDDED MOUNTING WILL BE REQUIRED. LANDSCAPE ARCHITECT TO CONFIRM IF INFILL IS REQUIRED. VERIFY FIXTURE FINISH PER ARCHITECT. MANUFACTURER MUST PROVIDE SHOP DRAWINGS INDICATING RUN OF LENGTH, LOCATION OF POST, ETC. PRIOR TO FINAL PROCUREMENT OF RAIL SYSTEM.

Description	Location	Type
POWER PIPE STAKE MOUNTED, ADJUSTABLE TREE UPLIGHT WITH GLARE-FREE ANGLED SNOOT.	TREE, LANDSCAPE	LA-02

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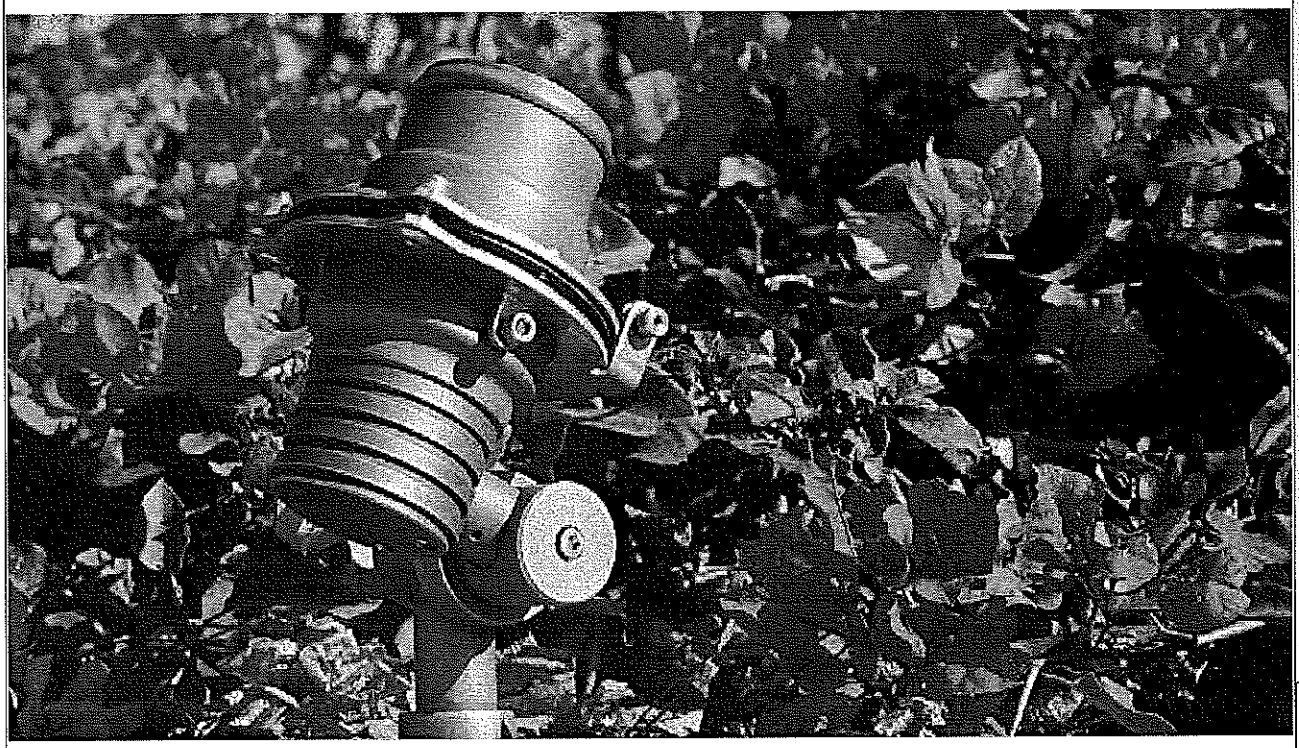


Fixture Information

Manufacturer	Part Number			
TEKA ILLUMINATION	#(PNF-3"-LED-E64-MFL-A9-FINISH-12-11-A)-(POWER PIPE)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POWER PIPE	MLV	8 W	PER EE	REMOTE MAG

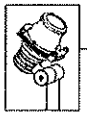
Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	8 W	2700K

Notes

VERIFY FIXTURE FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING. **FIXTURE REQUIRES REMOTE X-FORMERS EQUAL TO BKSSL MLV XFORMER**. TO BE LOCATED AT A NEARBY, DRY, VENTILATED, SOUND ATTENUATED, STAFF-ACCESSIBLE LOCATION AS NOTED ON THE ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT GAUGED WIRED TO CONFIRM NO VOLTAGE DROP TO FIXTURE.

Description	Location	Type
POWER PIPE STAKE MOUNTED, ADJUSTABLE TREE UPLIGHT WITH GLARE-FREE ANGLED SNOOT.	TREE, LANDSCAPE	LA-02



PINNACLE FLOODLIGHT (PNF)

PROJECT:	
TYPE:	
CATALOG NUMBER:	PNF LED
SOURCE:	LED - Power of 'e' Technology with Integral Dimming Driver
NOTES:	

CATALOG NUMBER LOGIC

	PNF		LED								
Example - PNF - 18" - LED - e64 - NSP - A9 - BZW - 12 - 11 - A											

Material
- Blank - Aluminum
- C - Copper

Series
- PNF - Pinnacle Floodlight

Stem Length
- 3", 6", 12", 18", 24", 30"

Source
- LED - 'e' Technology with Integral Dimming Driver *(See Specifications for Dimming)*
  Designed for use with remote 12VDC BKSSL® transformers. Requires magnetic Low Voltage Dimmer.

LED Type
- e64 - 8WLED/2700K
- e65 - 8WLED/3000K
- e66 - 8WLED/4000K
- e74 - 8WLED/Amber

Optics
- NSP - Narrow Spot
- SP - Spot
- MFL - Medium Flood
- WFL - Wide Flood

Adjust-e-Lume® Output Intensity *(Choose factory setting)*
- A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

Finish
- NAT - Natural*
- BP - Brown Patina*
- GP - Green Patina*
- NIC - Nickel Plate*
- BZW - Bronze Wrinkle
  See Powder Coat Finish Chart to the right for additional choices. Not available with Aluminum. For Aluminum Fixtures, specify Standard or Premium Powder Coat

Powder Coat Standard Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Powder Coat Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper		*Also available in RAL finishes. See alternate finish chart.*

Lens
- 12 - Soft Focus Lens
- 13 - Reticulated Lens

Shielding
- 11 - Honeycomb Baffle

Cap Style *(Material and finish to match fixture.)*
- A - 45°
- B - 90°
- C - Flush
- D - 45° Lass Wrap Hole *(Interior use only.)*
- E - 90° Lass Wrap Hole *(Interior use only.)*

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Fixture Information					
Manufacturer	Part Number				
TEKA ILLUMINATION	#(PNF-3"-LED-E64-MFL-A9-FINISH-12-11-A)-(POWER PIPE)				
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr	
POWER PIPE	MLV	8 W	PER EE	REMOTE MAG	

Source Info				
Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	8 W	2700K

Notes

VERIFY FIXTURE FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING. **FIXTURE REQUIRES REMOTE X-FORMERS EQUAL TO BKSSL MLV XFORMER**. TO BE LOCATED AT A NEARBY, DRY, VENTILATED, SOUND ATTENUATED, STAFF-ACCESSIBLE LOCATION AS NOTED ON THE ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT GAUGED WIRED TO CONFIRM NO VOLTAGE DROP TO FIXTURE.

Description	Location	Type
POWER PIPE STAKE MOUNTED, ADJUSTABLE TREE UPLIGHT WITH GLARE-FREE ANGLED SNOOT.	TREE, LANDSCAPE	LA-02

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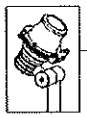
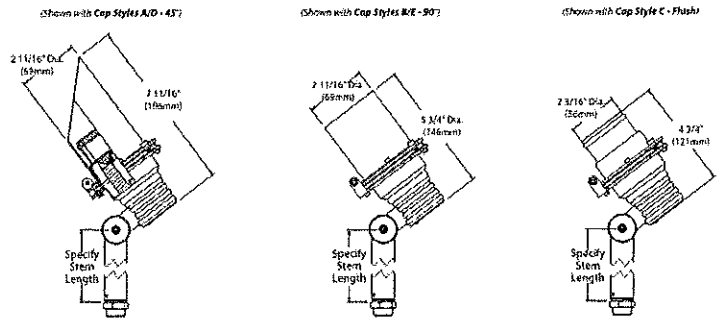


PINNACLE FLOODLIGHT (PNF)

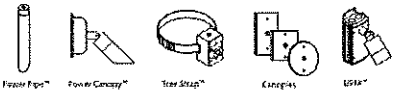
PROJECT:	
TYPE:	

SIDE VIEW

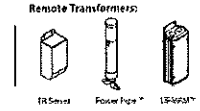


Accessories *(Configure separately)*

Mounting:



Remote Transformers:



All dimensions indicated on this material are nominal. Contact Teka at time of your order if more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.tekaillumination.com/greensource for program requirements.

Materials
Copper and Brass: Constructed from copper and brass. These enduring metals are inherently corrosion resistant.

Aluminum: Constructed from Copper-free aluminum (Type 6061-T6)

Body
Hand spun from high purity, 14GA (.0641") ASTM 3003-H14 Aluminum or 18GA (.0647") ASTM C101 Copper.

Cap
Hand spun from high purity, 14GA (.0641") ASTM 3003-H14 Aluminum or 18GA (.0647") ASTM C101 Copper. Lens alignment lock screws allow for precision adjustment without the redundant opening of the fixture. Available in 45°, 90°, 45° less weep hole and 90° less weep hole.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.

Stem
Machined from heavy wall 1" O.D. 6061-T6 extruded aluminum tube or 330 extruded brass tube.

BKSSL® Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <250mA (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Dimming
Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

Adjust-o-Lume® (Pat. Pending)
Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red, Spot (SP) = Green, Medium Flood (MFL) = Yellow, Wide Flood (WFL) = Blue.

Remote Transformer
For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Wiring
Black, 18/2 coated wire. 150V 60° C rated and certified to UL 1659 standard. Leads extend 6" from fixture to facilitate live splice in suitable enclosure.

Hardware
Tamper resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish
Copper and Brass: Natural (NAT). Copper and brass components are sand blasted to expose the porous metal surface. Over time, and with exposure to the elements, the metals will naturally weather resulting in a unique patina.

Also available with hand-crafted metal finishes including brown patina (BP), green patina (GP), polish (POL), and nickel plate (NIC).

Copper and brass components are also available in powder coat finishes.

Optional ceramic clear coat protection (copper and brass components only) seals and protects underlying metals and protects against discoloration, fading, and wear. Highly impervious to chemicals, solvents, and graffiti. For use with natural (NAT) finish.

Aluminum: StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating.

Warranty
5 year limited warranty.

Listings
UL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Additionally suitable for installation within 4" of the ground. IP66 Rated. Made in USA.

RoHS

*Energy Star® is a registered trademark of the United States Environmental Protection Agency.

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Fixture Information

Manufacturer	Part Number				
TEKA ILLUMINATION	#(PNF-3"-LED-E64-MFL-A9-FINISH-12-11-A)-(POWER PIPE)				
Mounting	Control Type		Input Watts	Voltage	Ballast/Trans/Drvr
POWER PIPE	MLV		8 W	PER EE	REMOTE MAG

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	8 W	2700K

Notes

VERIFY FIXTURE FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING. **FIXTURE REQUIRES REMOTE X-FORMERS EQUAL TO BKSSL MLV XFORMER**. TO BE LOCATED AT A NEARBY, DRY, VENTILATED, SOUND ATTENUATED, STAFF-ACCESSIBLE LOCATION AS NOTED ON THE ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT GAUGED WIRED TO CONFIRM NO VOLTAGE DROP TO FIXTURE.

Description	Location	Type
POWER PIPE STAKE MOUNTED, ADJUSTABLE TREE UPLIGHT WITH GLARE-FREE ANGLED SNOOT.	TREE, LANDSCAPE	LA-02

LAMP & DRIVER DATA

e64, e65, e66, e74

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

LM79 DATA				L70 DATA	OPTICAL DATA		
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of Initial lumens (L_{70})	Angle	CBCP	Delivered Lumens
e64	2700K	80	8	50,000	13°	4607	427
	2700K	80	8	50,000	15°	4251	404
	2700K	80	8	50,000	23°	2058	397
	2700K	80	8	50,000	31°	772	295
e65	3000K	80	8	50,000	13°	4632	429
	3000K	80	8	50,000	15°	4274	406
	3000K	80	8	50,000	23	2069	399
	3000K	80	8	50,000	31°	776	296
e66	4000K	80	8	50,000	13°	5174	479
	4000K	80	8	50,000	15°	4774	454
	4000K	80	8	50,000	23°	2311	446
	4000K	80	8	50,000	31°	867	331
e74	Amber (590nm)	~	8	50,000	~	~	~

OPTICS

Optic	Angle	Visual Indicator
NSP - Narrow Spot	13°	Red
SP - Spot	15°	Green
WFL - Wide Flood	31°	Blue

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Fixture Information					
Manufacturer	Part Number				
TEKA ILLUMINATION	#(PNF-3"-LED-E64-MFL-A9-FINISH-12-11-A)-(POWER PIPE)				
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr	
POWER PIPE	MLV	8 W	PER EE	REMOTE MAG	

Source Info				
Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	8 W	2700K

Notes

VERIFY FIXTURE FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING. FIXTURE REQUIRES REMOTE X-FORMERS EQUAL TO BKSSL MLV XFORMER. TO BE LOCATED AT A NEARBY, DRY, VENTILATED, SOUND ATTENUATED, STAFF-ACCESSIBLE LOCATION AS NOTED ON THE ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT GAUGED WIRED TO CONFIRM NO VOLTAGE DROP TO FIXTURE.

Description	Location	Type
POWER PIPE STAKE MOUNTED, ADJUSTABLE TREE UPLIGHT WITH GLARE-FREE ANGLED SNOOT.	TREE, LANDSCAPE	LA-02

THE POWER OF X TECHNOLOGY

FOOTCANDLE CHART

SPOT : 15°

Distance	Beam Dia.	Footcandles e64 2700K	e65 3000K	e66 4000K
4'	1'	1088	1147	1170
8'	2'	273	287	293
12'	3'	121	127	130
16'	4'	68	72	73
20'	5'	44	46	47

If using No. 11 Honeycomb Baffle, multiply footcandle values by .80

FLOOD : 35°

Distance	Beam Dia.	Footcandles e64 2700K	e65 3000K	e66 4000K
4'	3'	300	317	323
8'	6'	75	79	81
12'	8'	33	35	36
16'	11'	19	20	20
20'	14'	12	13	13

If using No. 11 Honeycomb Baffle, multiply footcandle values by .80.

WIDE FLOOD : 60°

Distance	Beam Dia.	Footcandles e64 2700K	e65 3000K	e66 4000K
4'	5'	109	115	117
8'	9'	27	29	29
12'	14'	12	13	13
16'	19'	7	7	7
20'	24'	4	5	5

If using No. 11 Honeycomb Baffle, multiply footcandle values by .80

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Fixture Information

Manufacturer	Part Number			
TEKA ILLUMINATION	#(PNF-3"-LED-E64-MFL-A9-FINISH-12-11-A)-(POWER PIPE)			
Mounting	**Control Type**	**Input Watts**	**Voltage**	**Ballast/Trans/Drvr**
POWER PIPE	MLV	8 W	PER EE	REMOTE MAG

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	8 W	2700K

Notes

VERIFY FIXTURE FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING. **FIXTURE REQUIRES REMOTE X-FORMERS EQUAL TO BKSSL MLV XFORMER**. TO BE LOCATED AT A NEARBY, DRY, VENTILATED, SOUND ATTENUATED, STAFF-ACCESSIBLE LOCATION AS NOTED ON THE ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT GAUGED WIRED TO CONFIRM NO VOLTAGE DROP TO FIXTURE.

Description	Location	Type
PATHWAY LIGHT	FUNICULAR SERVICE	LA-03

LED garden and pathway bollard

Post construction: One piece extruded aluminum. All aluminum in the construction is marine grade and copper free.

Lamp Enclosure: One piece die cast aluminum housing attached to post by two (2) stainless steel set screws. Safety glass lens with optical pattern. Fully gasketed using a one piece molded silicone gasket.

Electrical: 1.9W LED luminaire. 4 total system watts, -30°C start temperature. Integral 12V AC driver provided must be operated using remote magnetic transformer. Standard LED color temperature is 3000K with a >80 CRI.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Anchor base: Anchor post provided made of galvanized steel. Bollards are secured to post using two (2) stainless steel set screws.

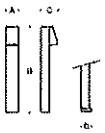
Finish: Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

Please note: BEGA's approach to product design is to innovate, not follow. With a steadfast commitment to quality, each product is conceived to satisfy a general or specific lighting task as defined by its architectural or exterior surroundings. The Home and Garden Collection is designed specifically for use in Residential and Light Commercial applications. Please reference our standard BEGA portfolio when mounting provisions for the rigorous demands of high-use commercial and/or vandal prone settings are required.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 6.0 lbs.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



		Lamp	A	B	C	D
77249	with hardscape base	1.9W LED	3	27¼	5	2½

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com
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Fixture Information					
Manufacturer	Part Number				
BEGA-US	#(77249-ANCHOR-FINISH PER ARCH-2700K MOD)				
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr	
BOLLARD/ANCHOR MOUNTED	TBD	2 W	PER EE	INTEGRAL ELECT	

Source Info				
Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	2 W	2700K

Notes: VERIFY FIXTURE FINISH PER ARCH. BOLLARD REQUIRES ANCHOR PLATE/KIT FOR INSTALLATION. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.

Description	Location	Type
SELF ILLUMINATED URBAN FURNITURE/BENCH (BUILT IN LED LIGHTING)	PATHWAY	LA-04

Light design element - symmetric

BEGA

Application
Urban furniture. An innovative luminaire concept to structure and divide surfaces and squares in private and public spaces with shielded light. BEGA light design elements are like luminous sculptures, ideal for sophisticated arrangements of open spaces, along pathways and on roof terraces.

Materials
Housing constructed of die-cast and extruded, welded aluminum
Matte safety glass
Reflector made of pure anodized aluminum
Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 75.0 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-20° C
LED module wattage	12.0W
System wattage	18.0W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	970 lumens (3000K)
Lifetime at Ta = 15° C	115,000 h (L70)
Lifetime at Ta = 45° C	70,000 h (L70)

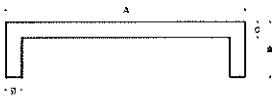
LED color temperature
O 4000K - Product number + **K4**
O 3500K - Product number + **K35**
O 3000K - Product number + **K3**
O 2700K - Product number + **K27**

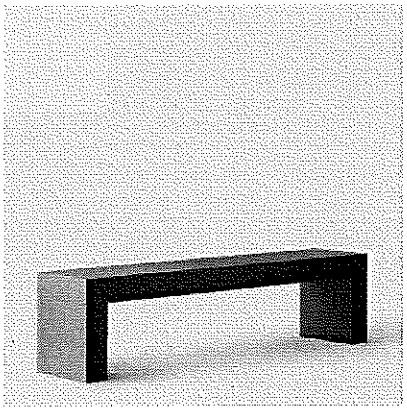
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors O Black (BLK) O White (WHT) O RAL:
O Bronze (BRZ) O Silver (SLV) O CUS:

Type:
BEGA Product:
Project:
Modified:





Light design element - symmetric

	LED	A	B	C	D	Accessoires
77730	12.0W	70¾ x 15¾	18½	4¾	4¾	**79809**

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Fixture Information

Manufacturer	Part Number			
BEGA-US	#(77730-FINISH-K27)-(79809)			
Mounting	**Control Type**	**Input Watts**	**Voltage**	**Ballast/Trans/Drvr**
SURFACE ANCHORED	0-10V	18 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	18 W	2700K

Notes
VERIFY FIXTURE FINISH PER ARCH. FIXTURE INTENDED TO BE BUILT IN TO PROPOSED URBAN FURNITURE/BENCH. FIXTURE IS INTEGRAL TO BENCH. ARCHITECT TO VERIFY FIXTURE ANCHOR DETAIL.

Description	Location	Type
SURFACE WALL MOUNTED, WET LISTED DOWNLIGHT/SCONCE.	INFORMATIONAL DISPLAY	LA-05

LED wall luminaire - directed light

BEGA

Application
This LED wall luminaire has a directed light distribution designed for general illumination of pathways and building entrances from various mounting heights.

Materials
Luminaire housing constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
Clear safety glass
Reflector made of pure anodized aluminum
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations
Protection class IP64
Weight: 1.0lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-20° C
LED module wattage	3.2W
System wattage	5W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	145 lumens (3000K)
Lifetime at Ta=25° C	50,000 h (L70)

LED color temperature

O 4000K - Product number + **K4**
O 3500K - Product number + **K35**
O 3000K - Product number + **K3 *(EXPRESS)***
O 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

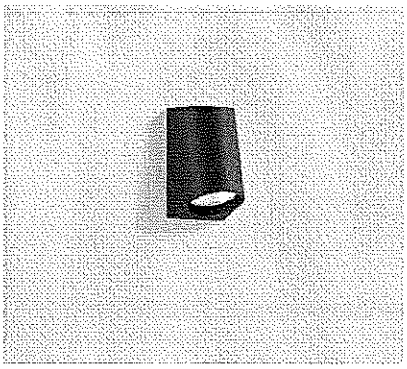
Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors O Black (BLK) O White (WHT) O RAL: O Bronze (BRZ) O Silver (SLV) O CUS:

Type:
BEGA Product:
Project:
Modified:

LED wall luminaire - directed light

		LED	A	B	C
33539	BLK	3.2W	3	5 7/8	3 1/4



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Fixture Information

Manufacturer	Part Number			
BEGA-US	#(33539-FINISH-K27)			
Mounting	**Control Type**	**Input Watts**	**Voltage**	**Ballast/Trans/Drvr**
SURFACE WALL MOUNTED	0-10V	5 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	5 W	2700K

Notes

VERIFY FIXTURE FINISH PER ARCHITECT. REFER TO ARCHITECTURAL ELEVATIONS FOR FIXTURE MOUNTING HEIGHT/DETAILS.

Description	Location	Type
SURFACE MOUNTED, SMALL PROFILE, LOW LEVEL AREA LIGHT.	FUNICULAR PATHWAY	LA-06

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Fixture Information

Manufacturer	Part Number			
TEKA ILLUMINATION	#(APL-L10-FINISH-A-CC1-MSH)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
SURFACE MOUNTED	LINE	10 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	10 W	2700K

Notes

FIXTURE INTENDED TO SIT ON ARCHITECTURAL PLATFORM. VERIFY FIXTURE FINISH PER ARCH. FIXTURE DIMMABLE VIA LINE VOLTAGE.

Description	Location	Type
SURFACE MOUNTED, SMALL PROFILE, LOW LEVEL AREA LIGHT.	FUNICULAR PATHWAY	LA-06

APOLLO PILLAR (APL)

PROJECT:	
TYPE:	
CATALOG NUMBER:	APL LED
SOURCE:	LED - Power of 'L' Technology - Line Voltage - 120V only
NOTES:	

CATALOG NUMBER LOGIC

		APL	LED						
Example	-	APL	LED	L10	BZP	A	CC1	HS	CLR

Material
- Blank - Aluminum
- B - Brass

Series
- APL - Apollo Pillar

Source
- LED - 'L' Technology (Line Voltage - 120V only)

LED Type
- L10 - 10W/LED/2700K
- L11 - 10W/LED/3000K
- L12 - 10W/LED/4000K
- L13 - 10W/LED/2200K-3500K Warm Dim

Finish
- NAT - Natural*
- BP - Brown Patina*
- GP - Green Patina*
- NIC - Nickel Plate*
- BZW - Bronze Wrinkle

See Powder Coat Finish Chart to the right for additional choices. *Not available with Aluminum. For Aluminum fixtures, specify Standard or Premium Powder Coat.

Powder Coat Standard Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Powder Coat Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MOS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper		Also available in RAL Finishes See submitted SUB-1439-00

Rings
- A - Aluminum (Finish to match Fixture)
- B - Brass (Finish to match Fixture)
- S - Stainless Steel (Stainless Steel Rings are provided in Natural (NAT) regardless of Finish)

Cap Style
- CC1 - Cone Cap (Material and Finish to match Fixture)
- CF1 - Flat Cap (Material and Finish to match Fixture)

Accessories (Select one)
- MSH - Mesh Screen (Aluminum Mesh Supplied with Aluminum Fixture. Copper Mesh Supplied with Brass Fixture. Finish to match Material)

Option
- CLR - Clear Coat Protection (For use with Natural (NAT) Finishes. For use with Brass Fixture only)

LM79 DATA

TEKA LED #	LUMENS (Delivered)	CCT	INPUT WATTS (Typ.)	CR (Typ.)	BUG Rating
L10	282	2700	10	90	B0-U3-G1
L11	282	3000	10	90	B0-U3-G1
L12	291	4000	10	90	B0-U3-G1
L13	285	2200-3500	10	90	B0-U3-G1

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

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Fixture Information

Manufacturer	Part Number
TEKA ILLUMINATION	#(APL-L10-FINISH-A-CC1-MSH)

Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
SURFACE MOUNTED	LINE	10 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	10 W	2700K

Notes

FIXTURE INTENDED TO SIT ON ARCHITECTURAL PLATFORM. VERIFY FIXTURE FINISH PER ARCH. FIXTURE DIMMABLE VIA LINE VOLTAGE.

Description	Location	Type
SURFACE MOUNTED, SMALL PROFILE, LOW LEVEL AREA LIGHT.	FUNICULAR PATHWAY	LA-06

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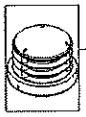
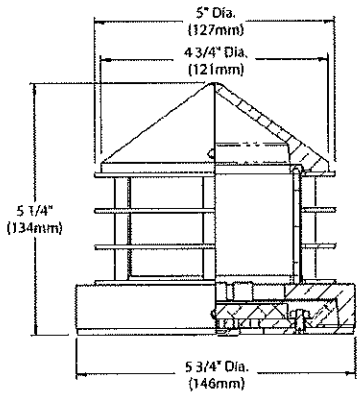


APOLLO PILLAR (APL)

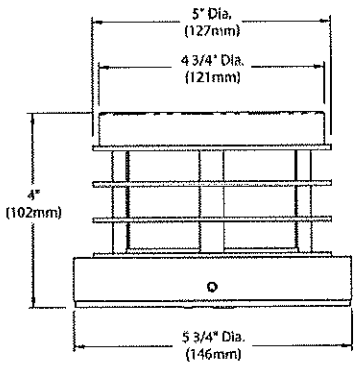
PROJECT:	
TYPE:	

SIDE VIEW

(Shown with Cone Cap Style CC1)



(Shown with Flat Cap Style CF1)



All dimensions indicated on this schematic are nominal. Contact Technical Sales if you require exact manufacturer specifications.

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.tekaillumination.com/greensource for program requirements.

Materials
Brass: Constructed from brass. This enduring metal is inherently corrosion resistant.
Aluminum: Constructed from Copper-Free aluminum (Type 6061-T6 and cast Aluminum 360).

Ring Stack
Solid aluminum with aluminum spacers; brass or stainless steel accent rings with solid brass spacers. Stainless steel rings available in natural (NAT) finish only.

Installation
5" diameter, machined aluminum or brass mounting plate with black finish. For use with 4" octagonal junction box (by others).

Mesh Screen
Diffuses light in window. Not available with half shield. Aluminum Mesh supplied with Aluminum Fixture. Copper Mesh supplied with Brass Fixture. Finish to match Material.

House Side Shield
Hand spun aluminum- 3003, copper- C101: eliminates light from half of the fixture. Material and Finish to match Fixture. Not available with Mesh Screen.

Lens
3.5" dia. frosted acrylic lens.

Cap
Top Cap available in cone or flat shape. Aluminum and bronze/brass.

Base
Cast aluminum-360, cast brass C836, high temperature silicone gasket provides water tight seal to lens assembly.

BK55L®
Integrated solid state system with L' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. LM-80 certified components.

Line voltage input, 120V only. For dimming, use with standard electronic low voltage dimmers.

Wiring
Teflon™ coated stranded wire, 18GA, 600V, 150° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware with black oxide finish.

Finish
Brass: Natural (NAT): Brass components are sand blasted to expose the porous metal surface. Over time, and with exposure to the elements, the metals will naturally 'weather' resulting in a unique patina.

Also available with hand-crafted metal finishes including brown patina (BP), green patina (GP), polish (POL), and nickel plate (NIC).

Brass components are also available in powder coat finishes.

Optional ceramic clear coat protection (brass components only) seals and protects underlying metals and protects against discoloration, fading, and wear. Highly impervious to chemicals, solvents, and graffiti. For use with natural (NAT) and polish (POL) finishes.

Aluminum: StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating.

Warranty
5 year limited warranty.

Listings
UL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Additionally suitable for installation within 4' of the ground. IP66 Rated. Made in USA

RoHS

* Teflon™ is trademark of The Chemours Company FC, LLC

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Fixture Information

Manufacturer	Part Number			
TEKA ILLUMINATION	#(APL-L10-FINISH-A-CC1-MSH)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
SURFACE MOUNTED	LINE	10 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	10 W	2700K

Notes

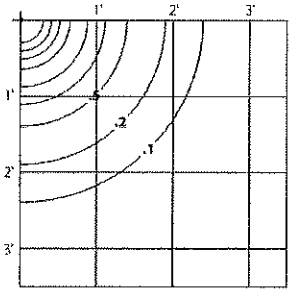
FIXTURE INTENDED TO SIT ON ARCHITECTURAL PLATFORM. VERIFY FIXTURE FINISH PER ARCH. FIXTURE DIMMABLE VIA LINE VOLTAGE.

Description	Location	Type
SURFACE MOUNTED, SMALL PROFILE, LOW LEVEL AREA LIGHT.	FUNICULAR PATHWAY	LA-06

APOLLO PILLAR (APL)

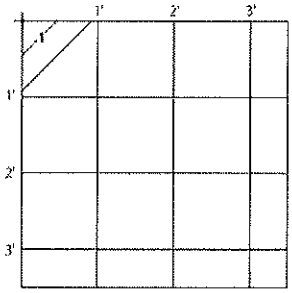
HORIZONTAL FOOTCANDLES

APL - LED - L12 (10W) - 4000K
Mounting Height = 0.04 Ft



HORIZONTAL FOOTCANDLES
Light Loss Factor = 1.00
Luminaire Lumens = 293
Maximum Calculated Value = 2717.94 Fc
2.7K Multiplier = .97
3K Multiplier = .97
BUG Rating = B0 U3 G1

APL - LED - L12 (7W) - 4000K
Mounting Height = 3 Ft



HORIZONTAL FOOTCANDLES
Light Loss Factor = 1.00
Luminaire Lumens = 291
Maximum Calculated Value = 0.48 Fc
2.7K Multiplier = .97
3K Multiplier = .97
BUG Rating = B0 U3 G1

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Fixture Information

Manufacturer	Part Number			
TEKA ILLUMINATION	#(APL-L10-FINISH-A-CC1-MSH)			
Mounting	**Control Type**	**Input Watts**	**Voltage**	**Ballast/Trans/Drvr**
SURFACE MOUNTED	LINE	10 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	10 W	2700K

Notes

FIXTURE INTENDED TO SIT ON ARCHITECTURAL PLATFORM. VERIFY FIXTURE FINISH PER ARCH. FIXTURE DIMMABLE VIA LINE VOLTAGE.

Description	Location	Type
RECESSED LOW LEVEL WALL/STEP LIGHT	STEPS	LA-07

LED recessed wall luminaires - shielded with louvers

BEGA

Application
LED recessed wall luminaire with unshielded light and louvers for use as location luminaires for means of way finding.

Materials
Floodlight housing and faceplate constructed of die-cast aluminum marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
White safety glass
Silicone applied robotically to plasma treated casting for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Stainless steel screw clamps
Composite installation housing

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 1.2 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	2.0W
System wattage	3.0W
Controllability	0-10V dimmable
Color rendering index	Ra:>80
Luminaire lumens	150 lumens (3000K)
Lifetime at Ta=15°C	105,000 h (L70)
Lifetime at Ta=40°C	72,000 h (L70)

LED color temperature

2700K - Product number + **K27**
3000K - Product number + **K3**
3500K - Product number + **K35**
4000K - Product number + **K4**

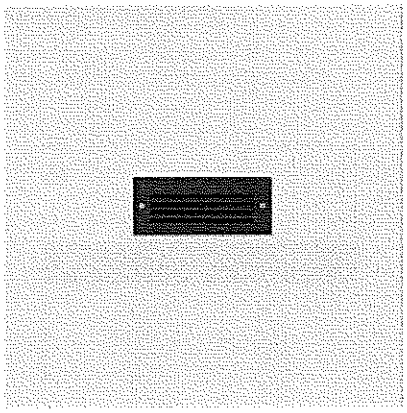
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:

Type:
BEGA Product:
Project:
Modified:

Fully enclosed luminaire with installation housing ensures seamless integration and weathertight operation.



LED recessed wall luminaires - shielded location luminaires

	LED	A	B	C
33017	2.0W	8½	2¾	5

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Fixture Information

Manufacturer	Part Number			
BEGA-US	#(33017-K27-FINISH PER ARCH)			
Mounting	**Control Type**	**Input Watts**	**Voltage**	**Ballast/Trans/Drvr**
RECESSED WALL/STEP	0-10V	3 W	PER EE	INTEGRAL ELECT

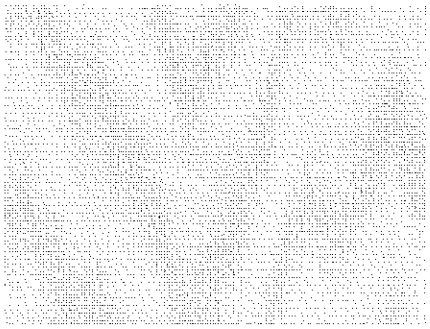
Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	3 W	2700K

Notes

RECESSED WALL MOUNTED STEP LIGHT. VERIFY RECESSING DEPTH PER ARCHITECT. FIXTURE PROVIDED WITH FULLY ENCLOSED HOUSING. VERIFY FIXTURE FINISH PER ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS/DETAILS FOR FIXTURE MOUNTING HEIGHT/ELEVATION.

Description	Location	Type
LOW PROFILE, SMALL APERTURE LANDSCAPE PATH LIGHT	THROUGHOUT	LA-08



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Fixture Information

Manufacturer	Part Number			
BK LIGHTING	#(LT-18"-LED-E70-FINISH-PP-TRE20-GS-SF)-(PP-S-18-T-TRE20-CAP PER EC-FINISH-SF)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POWER PIPE	NON-DIM	3 W	PER EE	INTEGRAL ELECT

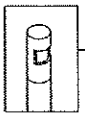
Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	3 W	2700K

Notes

VERIFY FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. **FIXTURE INTENDED TO BE NON-DIM**. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING.

Description	Location	Type
LOW PROFILE, SMALL APERTURE LANDSCAPE PATH LIGHT	THROUGHOUT	LA-08



the power of e

LITESTICK®

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example: [ ] - LT - [ ] - 18 - [ ] LED - [ ] e70 - [ ] SAP - [ ] A18 - [ ] GS

Material
- Blank - Aluminum
- B - Brass
- S - Stainless Steel

Series
- LT - Litestick® Pathlight

Stem Length
- 3", 6", 12", 18", or 24"* (Specify in inches)

Source
- LED - 'e' Technology with Integral Driver
  Designed for use with remote EZVAC BASE® transformers.

LED Type

Finishes

MAC	
POL	
MIT	

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron

Aluminum & Brass Finishes

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass: Machined, Polished, Antique

Stainless: Machined, Polished, Brushed

Mounting

[redacted]

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Fixture Information				
Manufacturer	Part Number			
BK LIGHTING	#(LT-18"-LED-E70-FINISH-PP-TRE20-GS-SF)-(PP-S-18-T-TRE20-CAP PER EC-FINISH-SF)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POWER PIPE	NON-DIM	3 W	PER EE	INTEGRAL ELECT

Source Info				
Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	3 W	2700K

Notes

VERIFY FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. FIXTURE INTENDED TO BE NON-DIM. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING.

Description	Location	Type
LOW PROFILE, SMALL APERTURE LANDSCAPE PATH LIGHT	THROUGHOUT	LA-08

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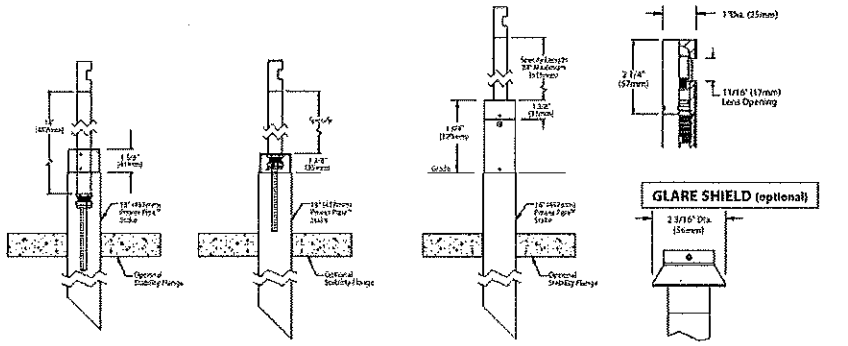
the power of

LITESTICK®

PROJECT:

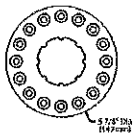
TYPE:

A18 (Mounting Option) | POWER PIPE™ (Mounting Option) | POWER PIPE 'T' (Mounting Option) | DETAIL VIEW



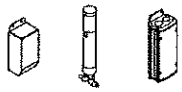
GLARE SHIELD (optional)

STABILITY FLANGE (optional)



Accessories (Configure separately)

Remote Transformers:



TR Series | Power Pipe™ | UPMRM™

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to assure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFCs). Use of this product may qualify for GreenSource efficiency and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. High temperature, silicone 'O' Ring provides water-tight seal. Weather-tight cable connector with 5', 2 wire low voltage cable.

Cap
Fully machined from solid billet with 11/16" lens opening. 360° rotation for precise optic positioning. Tamper resistant, stainless steel set screw.

Optional 2-3/16" dia. machined glare shield reduces aperture brightness.

Stem
Fully machined, 1" dia. with internal threads for maximum visual appeal. Available in configurable lengths to 24" maximum overall.

Lens
Shock resistant, tempered, frosted glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. UL-90 certified components. Side emitting optical grade lens delivers high efficiency, radial light distribution.

Installation
Available for installation in three distinct mounting conditions:

Power Pipe™
Provides a clean transition from wiring system to fixture. Schedule 80, 18" PVC housing for direct burial into soil or concrete. Machined 2-1/4" dia. cap for fixture mounting. Stainless steel hardware. Optional 6" diameter, molded stability flange, which simplifies installation and projects into substrate to reinforce housing stability. For use with 12VAC B-K Light remote transformer.

Power Pipe™ with Adjustable Mount
Features 18" Power Pipe™ and 18" stem which passes through a machined Delrin® bushing within the Power Pipe™ Cap. (3) stainless steel set screws secure fixture position (Not available with integral transformer).

Power Pipe™ with Transformer Housing (Optional)
Additionally features integral transformer housing fully machined from copper free aluminum. High temperature, silicone 'O' Ring provides water-tight seal. Integral, TRe20 electronic transformer. 105-130VAC primary voltage. 50/60Hz. Non Dimming. 20VA maximum load.

For use with 12VAC B-K Light remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Wiring
PVC coated, 18AWG, 150V, 60°C rated and certified to UL 1838 standard.

Hardware
Tamper resistant, stainless steel hardware.

Finish
StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' IQC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish (Brushed finish for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
ETL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP66 Rated. Made in USA.

RoHS

*Energy Star is a registered trademark of the United States Environmental Protection Agency.

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Fixture Information

Manufacturer	Part Number			
BK LIGHTING	#(LT-18"-LED-E70-FINISH-PP-TRE20-GS-SF)-(PP-S-18-T-TRE20-CAP PER EC-FINISH-SF)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POWER PIPE	NON-DIM	3 W	PER EE	INTEGRAL ELECT

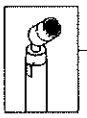
Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	3 W	2700K

Notes

VERIFY FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. **FIXTURE INTENDED TO BE NON-DIM**. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING.

Description	Location	Type
LOW PROFILE, SMALL APERTURE LANDSCAPE PATH LIGHT	THROUGHOUT	LA-08



Specify Fixture Separately

POWER PIPE™ SYSTEM

PROJECT:	
TYPE:	
CATALOG NUMBER:	
LAMP(S):	
NOTES:	

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CATALOG NUMBER LOGIC

		PP								
Example	B -	PP -	J -	18 -	T-L75E -	C -	MIT -	120 -	SF

Material
- Blank - Aluminum
- B - Brass
- S - Stainless Steel

Series
- PP - Power Pipe™ System

Type
- S - Stake
- J - Junction Box
- A - Adjustable 18" Stem[1] *(requires 18" Power Pipe)* *[1]Not available with Transformer Housing*

Power Pipe Length
- 12 - 12" Power Pipe Length
- 18 - 18" Power Pipe Length

Transformer Housing
- Blank - Less Transformer
- T-L75E - Transformer housing with 75VA Electronic Transformer*
- T-TRe20 - Transformer housing with TRe20 Electronic Transformer* *(105-300 VAC, 50/60 Hz, Non-Dimming. For use with BKSSL fixtures)* *Not available with Adjustable Stem (Type A)

Cap Style
- Blank - Less Cap *(Adjustable Stem only)*
- B - Single Hole Cap
- C - Solid Cap

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass

Machined	MAC
Polished	POL
Milique™	MIT

Stainless

Machined	MAC
Polished	POL
Brushed	BRU

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCR	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper		Also available in RAL Finishes See supplemental SUB-1439-01

Input Voltage
- Blank - Less Transformer or For use with TRe20 Electronic Transformer *(105-300 VAC, 50/60 Hz, Non-Dimming)*
- 120 - 120 VAC Input *(For use with L75E)*
- 230 - 230 VAC Input *(Non-Dimming. For use with L75E)*
- 277 - 277 VAC Input *(Non-Dimming. For use with L75E)*

Options
- SF - Stability Flange

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Fixture Information

Manufacturer	Part Number			
BK LIGHTING	#(LT-18"-LED-E70-FINISH-PP-TRE20-GS-SF)-(PP-S-18-T-TRE20-CAP PER EC-FINISH-SF)			
Mounting	**Control Type**	**Input Watts**	**Voltage**	**Ballast/Trans/Drvr**
POWER PIPE	NON-DIM	3 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	3 W	2700K

Notes

VERIFY FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. **FIXTURE INTENDED TO BE NON-DIM**. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING.

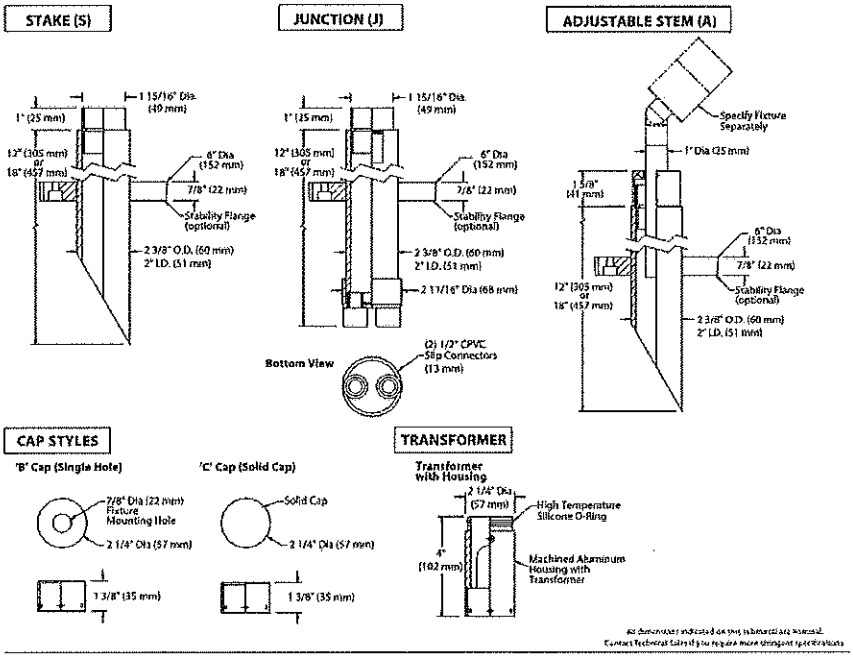
Description	Location	Type
LOW PROFILE, SMALL APERTURE LANDSCAPE PATH LIGHT	THROUGHOUT	LA-08

POWER PIPE™ SYSTEM

Specify Fixture Separately

PROJECT:

TYPE:



GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Installation
Provides a clean, architectural transition from wiring system to fixture. 2" Schedule 80 PVC pipe. For direct burial into soil or concrete. Available in 12" and 18" lengths. Available in three installation types:

Stake (Type S)
60° angled bottom designed for use with conduit or direct burial low voltage cable.

Junction Box (Type J)
Includes (2) 1/2" PVC slip connectors for branch circuit wiring.

Adjustable Stem (Type A16)
18" field adjustable stem accommodates future landscape growth. Unused stem length remains hidden inside housing. Delrin bushing and stainless steel set screws lock mounting height.

Stability Flange
Optional 6" diameter, molded stability flange simplifies installation and projects into substrate to simplify installation and reinforce housing stability.

Cap Style
Machined from copper-free aluminum or machined brass. Choose from Solid ('C'), or Single Hole ('B') cap styles.

Transformer Housing
Fully machined from copper-free aluminum, solid machined brass or stainless steel. Stainless steel hardware. High temperature, silicone 'O' Ring provides watertight seal.

Electronic Transformer
For use with halogen lamps. 120V, 230V, and 277V primary voltage. 120V is fully dimmable (40W minimum load), 50/60Hz. 11.6V secondary voltage. 10 watt minimum load (Halogen) non-dimmed. 75 watt maximum load. >0.93 Power Factor. <20% THD. Operating frequency >10kHz. Soft start circuitry to extend lamp life.

TRe20 Electronic Transformer
For use with [illegible], solid state 12V systems. 105-300VAC primary voltage. 50/60Hz. Non Dimming. 20VA maximum load.

Wiring
Teflon® coated wire, 18AWG, 600V, 250° C rated and certified to UL 1659 standard. Adjustable stem mount additionally includes 24" or 36" 12/2 direct burial low voltage cable.

Hardware
Tamper resistant, stainless steel hardware.

Finish
StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating.

Warranty
5 year limited warranty.

Listings
UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Made in USA.

RoHS

*Teflon is a registered trademark of DuPont Corporation

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Fixture Information

Manufacturer	Part Number			
BK LIGHTING	#(LT-18"-LED-E70-FINISH-PP-TRE20-GS-SF)-(PP-S-18-T-TRE20-CAP PER EC-FINISH-SF)			
Mounting	Control Type	Input Watts	Voltage	Ballast/Trans/Drvr
POWER PIPE	NON-DIM	3 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	3 W	2700K

Notes

VERIFY FINISH PER ARCH. FIXTURE PROVIDED WITH POWER PIPE MOUNT. **FIXTURE INTENDED TO BE NON-DIM**. FIXTURE PROVIDED WITH POWER PIPE MOUNT. ELECTRICAL CONTRACTOR TO PROVIDE SUFFICIENT CORD SLACK CAPABLE OF 5'-0" RADIUS ON-SITE RE-STAKING.

Description	Location	Type
SURFACE WALL MOUNTED LOW LEVEL, LED PATHWAY LIGHT	FUNICULAR PLATFORM	LA-09

LED wall luminaire - directed light

BEGA

Application
This LED wall mounted luminaire has directed light distribution and is designed for the general illumination of pathways, walkways, and plazas.

Materials
Luminaire housing constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
Frosted safety glass with optical texture
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 1.4lbs

Electrical

Operating voltage	24VDC (remote power supply req.)
LED module wattage	3.0W
System wattage	4.0W
Color rendering index	Ra > 80
Luminaire lumens	79 lumens (3000K)
Lifetime at Ta = 15° C	50,000 h (L70)

LED color temperature

O 4000K - Product number + **K4**
O 3500K - Product number + **K35**
O 3000K - Product number + **K3** ***(EXPRESS)***
O 2700K - Product number + **K27**

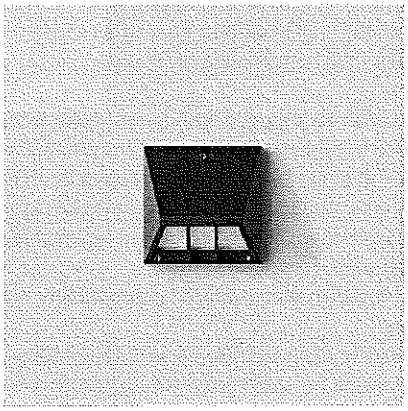
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

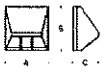
Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors O Black (BLK) O White (WHT) O RAL: O Bronze (BRZ) O Silver (SLV) O CUS:

Type:
BEGA Product:
Project:
Modified:

Available Accessories
☐ **19591** Remote 60W LED driver and box
☐ **19580** Remote 25W LED driver and box
See individual accessory spec sheet for details.





LED wall luminaire - directed light

		LED	A	B	C
22228	BLK	3.0W, 24V DC	4¾	4¾	2¾

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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Fixture Information

Manufacturer	Part Number			
BEGA-US	#(22228-FINISH PER ARCH-K27)			
Mounting	**Control Type**	**Input Watts**	**Voltage**	**Ballast/Trans/Drvr**
SURFACE WALL MOUNTED	0-10V	5 W	PER EE	INTEGRAL ELECT

Source Info

Lamp Manufacturer	Lamp Info/Part #	Lamps Per Fixture	Lamp Watts	Color
INTEGRAL LED	INTEGRAL LED	1	5 W	2700K

Notes

VERIFY FIXTURE FINISH PER ARCH. FIXTURE TO BE MOUNTED NOMINAL 18" AFF. REFER TO ARCHITECTURAL ELEVATIONS FOR FIXTURE MOUNTING HEIGHTS.

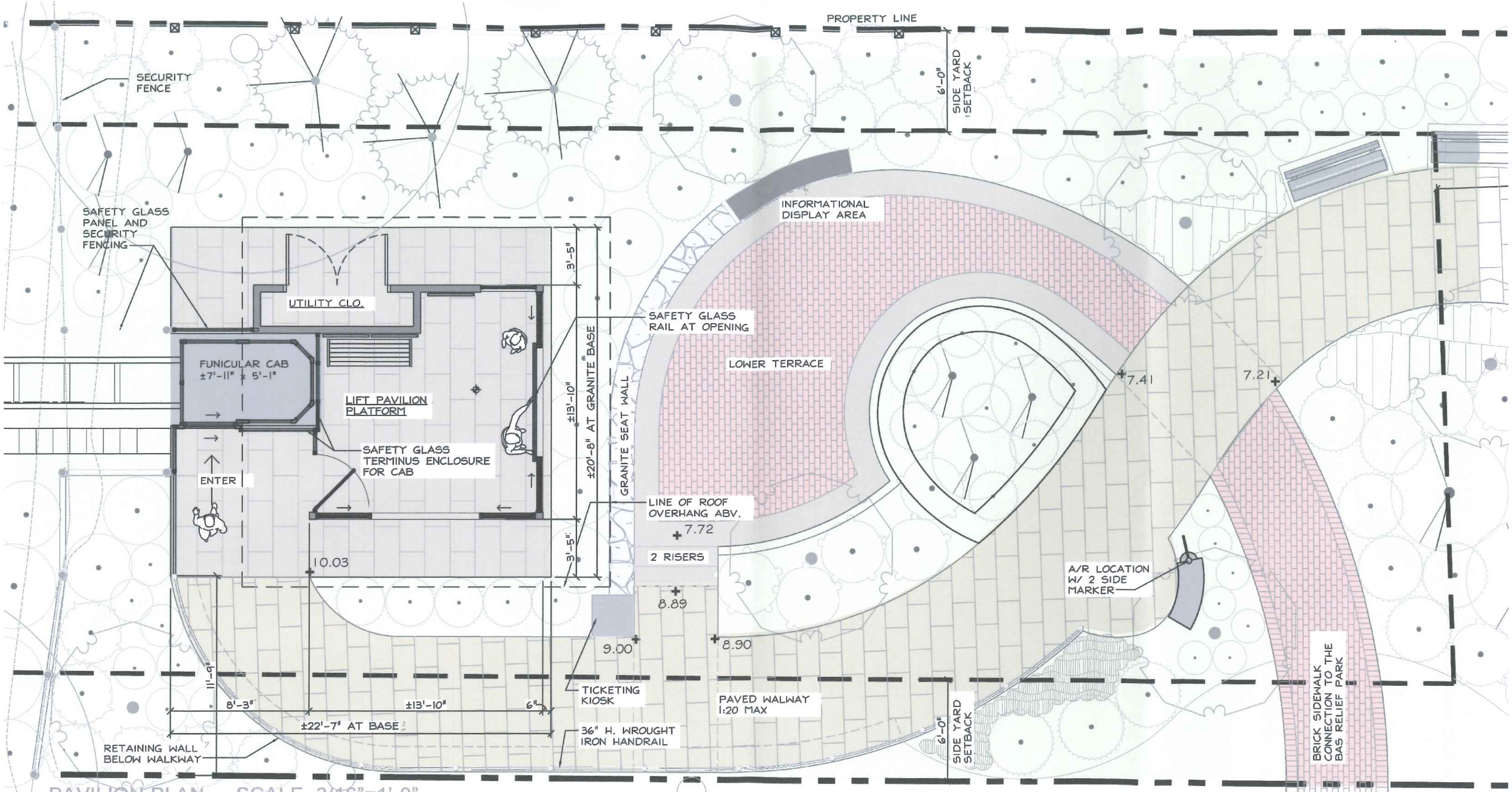
BOLD

GENERAL NOTES

1. Electrical Contractor responsible for verification of all run length configurations and quantities. All continuous run lengths must be continuously illuminated,hairline seams only, unless otherwise noted.
2. Electrical Contractor to verify all voltages, lamp types, field measurements, etc as required.
3. Electrical Contractor to field verify all mounting conditions and provide all hardware necessary to complete installation for full system operation.
4. Electrical Contractor shall verify the type of ceiling, coordinated with architectural and/or electrical drawings prior to purchase of fixtures.
5. Electrical Contractor must comply with maximum do not exceed remote distance of power supplies per manufacturers recommendation.
6. By bidding on this lighting design package, the Contractor acknowledges that lead times for fixtures can range from 2-8 weeks. BOLD will not approve or accept substitutions resulting from the Electrical Contractor's failure to account for lead times.
7. All remote transformers shall be located at an accessible, sound attenuated, ventilated location where indicated on the electrical drawings.
8. The client shall not hold consultant liable for re-design services due to cost overruns if they choose not to define targeted budgets.
9. Manufacturer must provide shop drawings for all continuously illuminated run lengths or custom sized panels, to be coordinated with architectural and/or electrical drawings.
10. Distributors must provide anticipated ship dates upon return of approved lighting fixture submittals.
11. Distributors must provide manufacturer-verified lead times based on fixture quantities.
12. Distributors must provide broken down unit prices by type. Bids that do not include unit pricing will be rejected as incomplete.
13. All emergency related electrical characteristics must be verified by the Electrical Engineer or Electrical Contractor.
14. All LED Retrofit lamps on dimming system must be for 120v only. For high-voltage applications, Electrical Contractor must verify with manufacturer prior to specification and purchase of system.
15. See architectural and/or electrical drawings for fixture locations, quantities and/or run length configurations. BOLD is not responsible for initial locations, quantities and/or run length configurations.
16. Manufacturer labels shall be turned away from public view. No construction notations shall be visible in areas exposed to public view.
17. All lighting fixtures shall be supplied with lamps, color filters and accessories as specified.
18. Electrical Contractor to replace all lamps with new lamps at the end of construction phase prior to commissioning phase and owner occupancy or project opening.
19. All measurements indicated in BOLD lighting plans are approximate. Electrical contractor is required to make field measurements based on actual site conditions to develop complete orders and install systems per drawings and specifications.
20. Electrical Engineer must provide required compatibility interfaces, if required, for compatibility to selected lighting control system.
21. All lighting fixtures installed in architectural details and/or millwork details must be confirmed and installed per BOLD recommended criteria (ie. aperture opening, visual cutoff angles, aiming angles, etc.).
22. All lighting fixture finishes to be reviewed and approved by Architect and/or Interior Designer prior to purchase.

ABBREVIATED TERMS

LINE- LINE VOLTAGE DIMMABLE
ELV- REVERSE-PHASE ELECTRONIC LOW VOLTAGE DIMMING
FWD ELV- FORWARD-PHASE ELECTRONIC LOW VOLTAGE DIMMING
MLV- MAGNETIC LOW VOLTAGE (FORWARD PHASE) DIMMING
DMX- DMX512 CONTROL
DALI- DALI CONTROL
2-WIRE- LUTRON 2-WIRE DIMMING
3-WIRE- LUTRON 3-WIRE DIMMING
ECO- LUTRON ECOSYSTEM
NON-DIM- NON-DIMMING or SWITCHED
0-10V- 0-10V DIMMING
VIF- VERIFY IN FIELD
TBD- TO BE DETERMINED
TBC- TO BE CONFIRMED



PAVILION PLAN - SCALE 3/16"=1'-0"

PROPOSED BRADFORD ACCESS PROJECT FOR PILGRIM MONUMENT & PROVINCETOWN MUSEUM

BRADFORD STREET, PROVINCETOWN, MA

9/19/18

PILGRIM MONUMENT
PROVINCETOWN MUSEUM

COASTAL engineering co.

OUTDOOR ENGINEERS

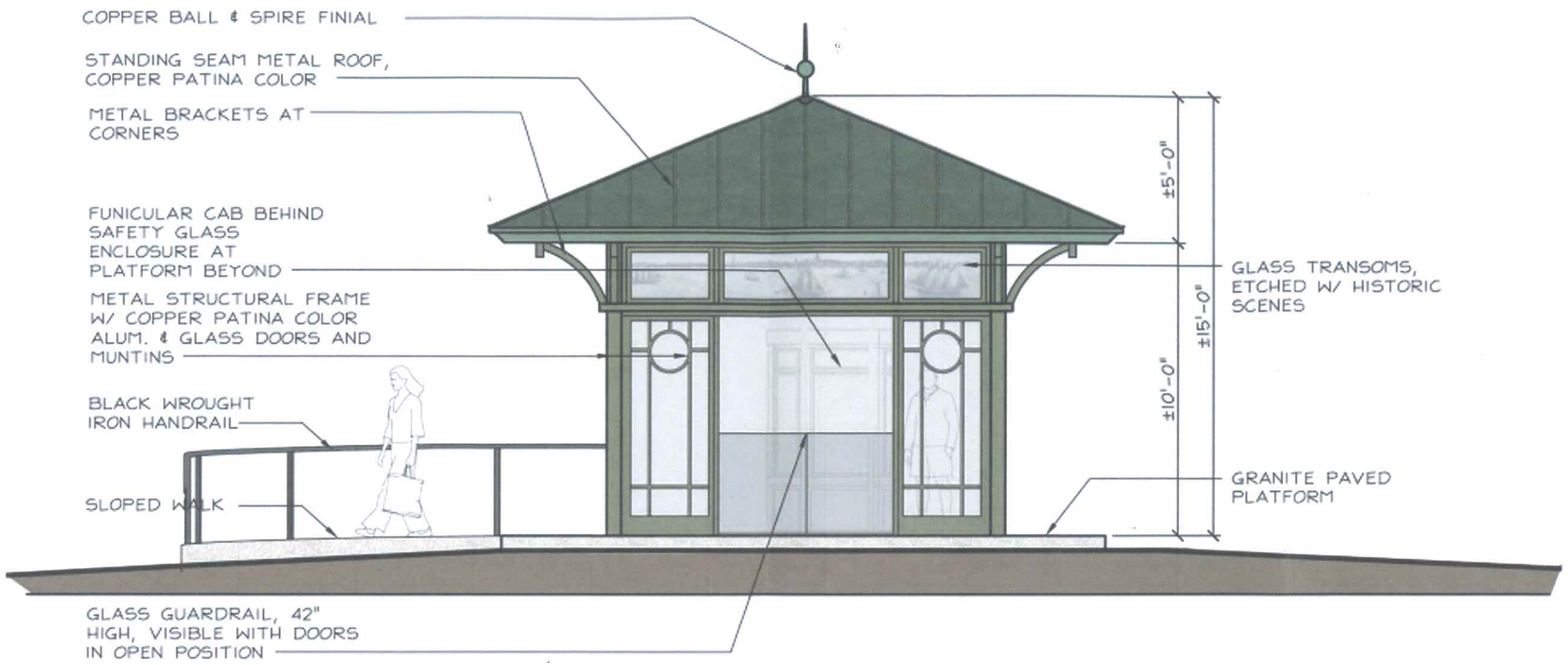
Hawk Design, Inc.
Landscape Architecture Land Planning

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

BOLD

CASHMAN CONSTRUCTION MANAGEMENT

1A



SOUTHEAST ELEVATION - SCALE 1/4"=1'-0"

PROPOSED BRADFORD ACCESS PROJECT FOR PILGRIM MONUMENT & PROVINCETOWN MUSEUM

BRADFORD STREET, PROVINCETOWN, MA

9/19/18

PILGRIM MONUMENT
PROVINCETOWN MUSEUM

COASTAL engineering co.

Hawk Design, Inc.
Landscape Architecture Land Planning

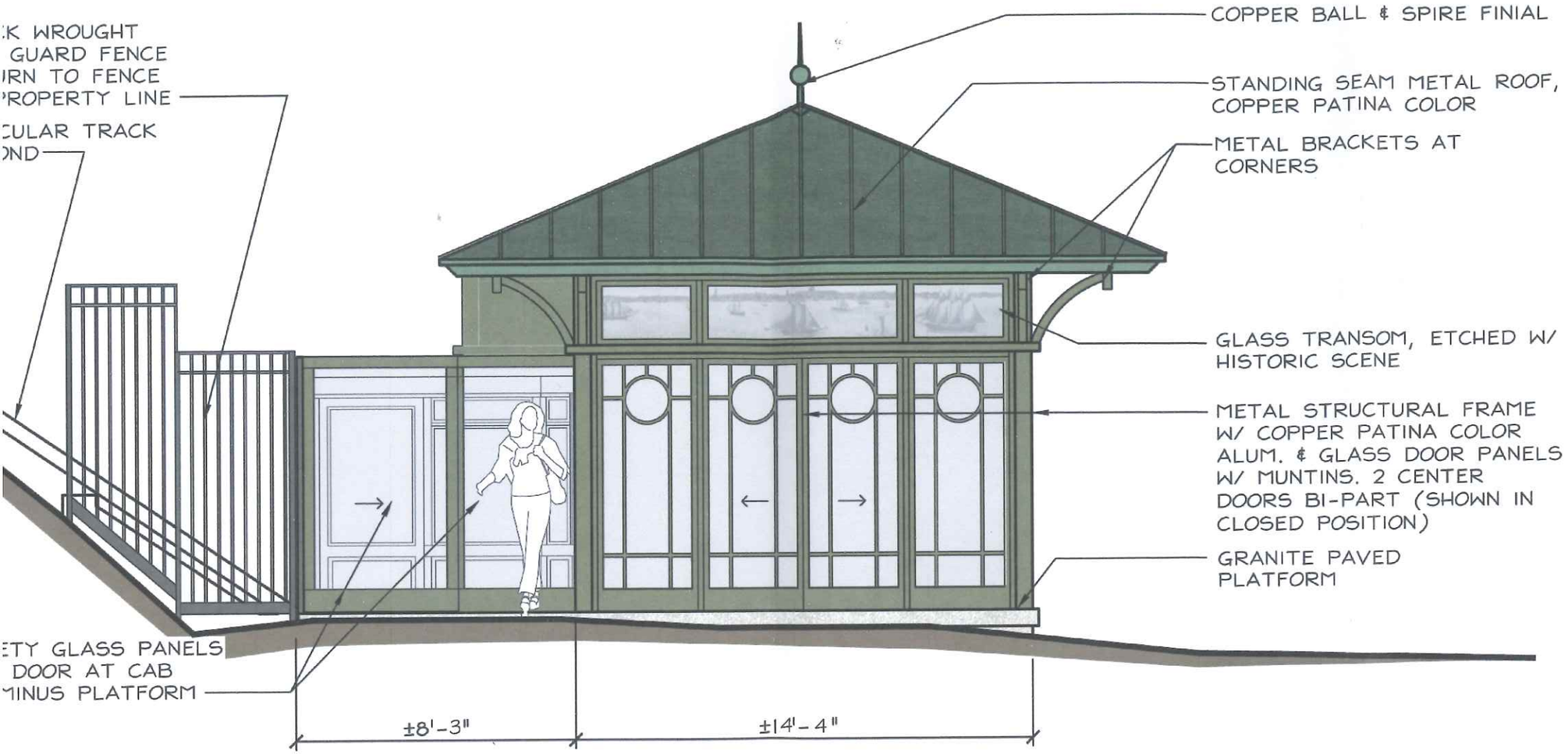
BOLD

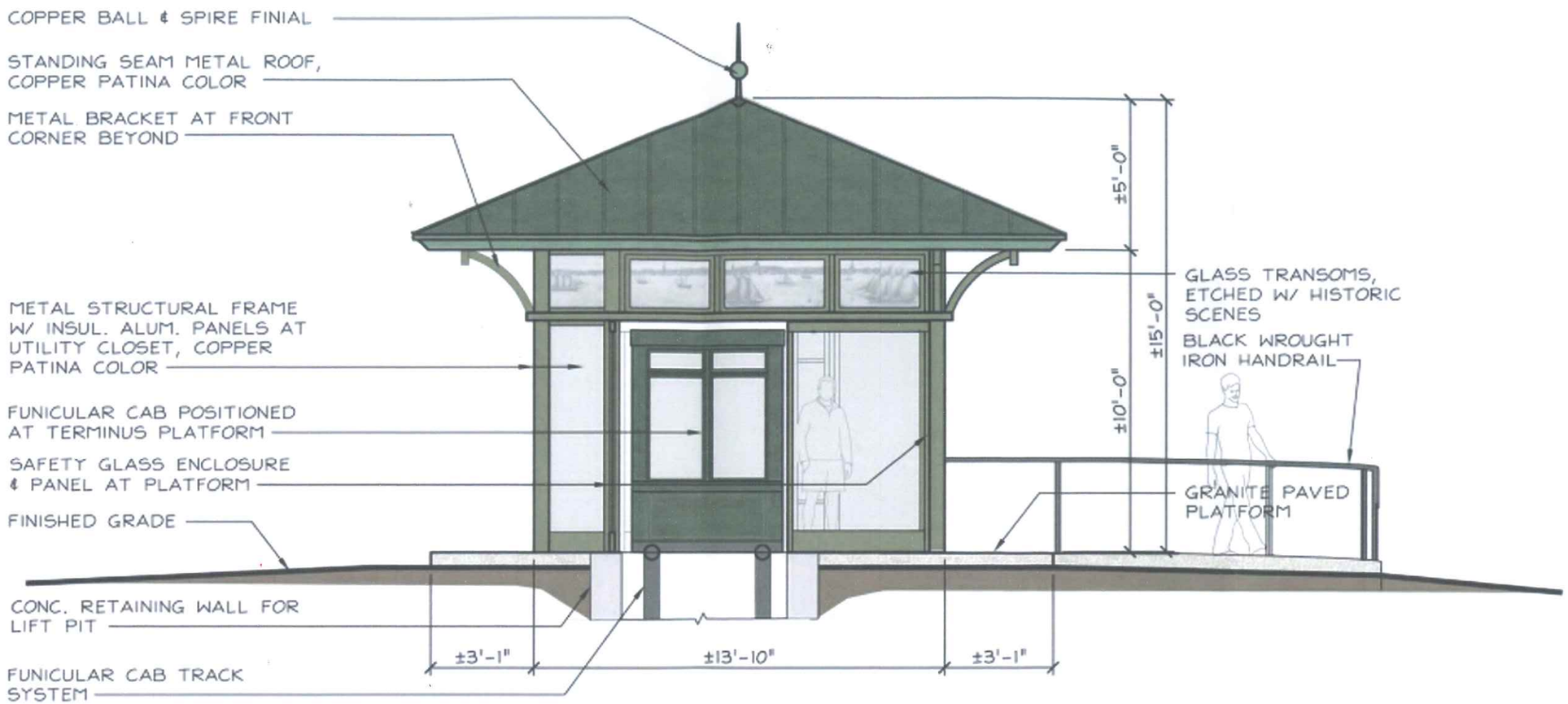
OUTDOOR ENGINEERS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

CASHMAN CONSTRUCTION MANAGEMENT

2A


:K WROUGHT
GUARD FENCE
IRN TO FENCE
'ROPERTY LINE
CULAR TRACK
ND
:TY GLASS PANELS
DOOR AT CAB
MINUS PLATFORM
COPPER BALL & SPIRE FINIAL
STANDING SEAM METAL ROOF, COPPER PATINA COLOR
METAL BRACKETS AT CORNERS
GLASS TRANSOM, ETCHED W/ HISTORIC SCENE
METAL STRUCTURAL FRAME W/ COPPER PATINA COLOR ALUM. & GLASS DOOR PANELS W/ MUNTINS. 2 CENTER DOORS BI-PART (SHOWN IN CLOSED POSITION)
GRANITE PAVED PLATFORM
±8'-3"
±14'-4"



NORTHWEST ELEVATION - SCALE 1/4"=1'-0"

PROPOSED BRADFORD ACCESS PROJECT FOR PILGRIM MONUMENT & PROVINCETOWN MUSEUM

BRADFORD STREET, PROVINCETOWN, MA

9/19/18

PILGRIM MONUMENT
PROVINCETOWN MUSEUM

COASTAL engineering co.

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Landscape Architecture Land Planning

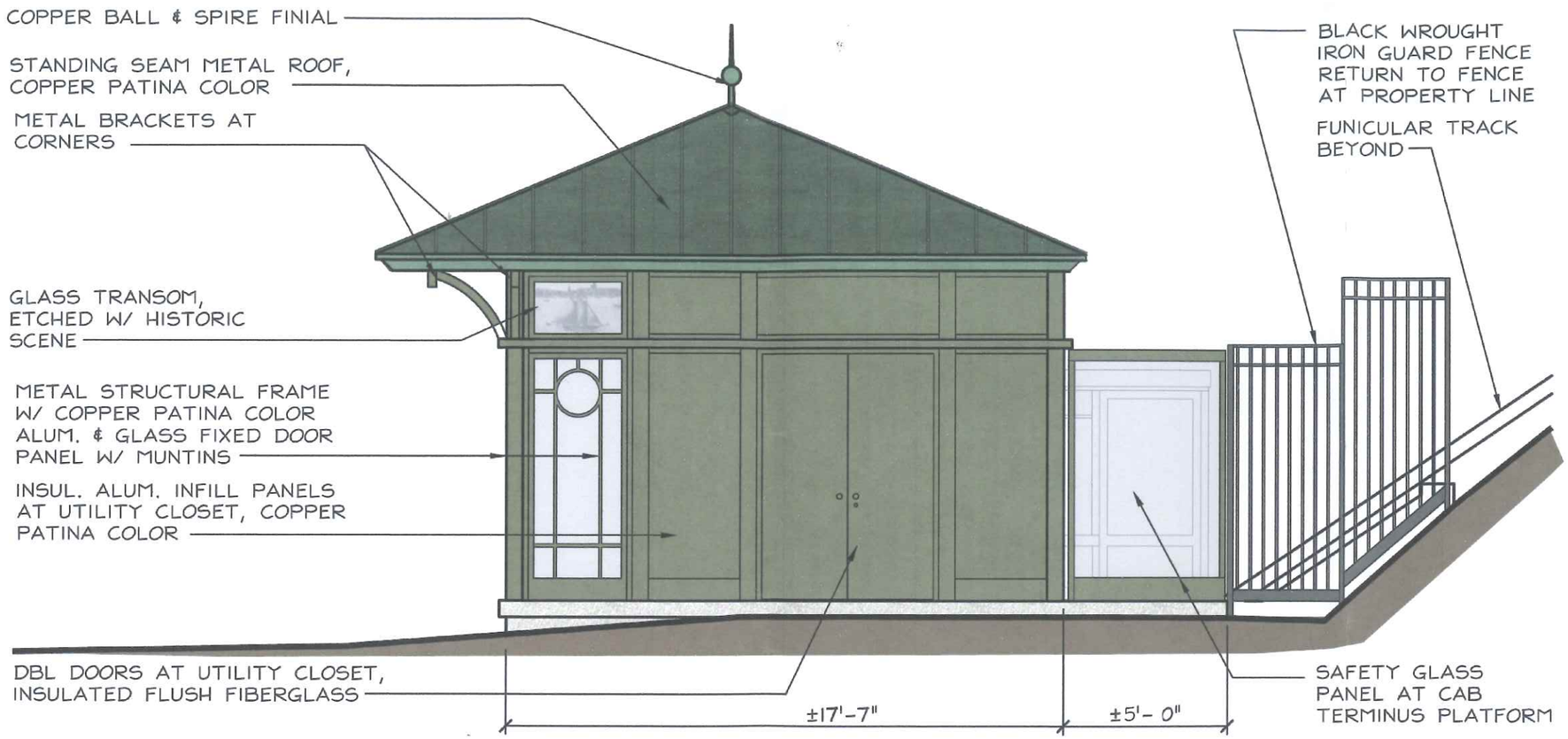
BOLD

OUTDOOR ENGINEERS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

CASHMAN CONSTRUCTION MANAGEMENT

4A



NORTHEAST ELEVATION - SCALE 1/4"=1'-0"

PROPOSED BRADFORD ACCESS PROJECT FOR PILGRIM MONUMENT & PROVINCETOWN MUSEUM

BRADFORD STREET, PROVINCETOWN, MA

9/19/18

PILGRIM MONUMENT
PROVINCETOWN MUSEUM

COASTAL engineering co.

Hawk Design, Inc.
Landscape Architecture Land Planning

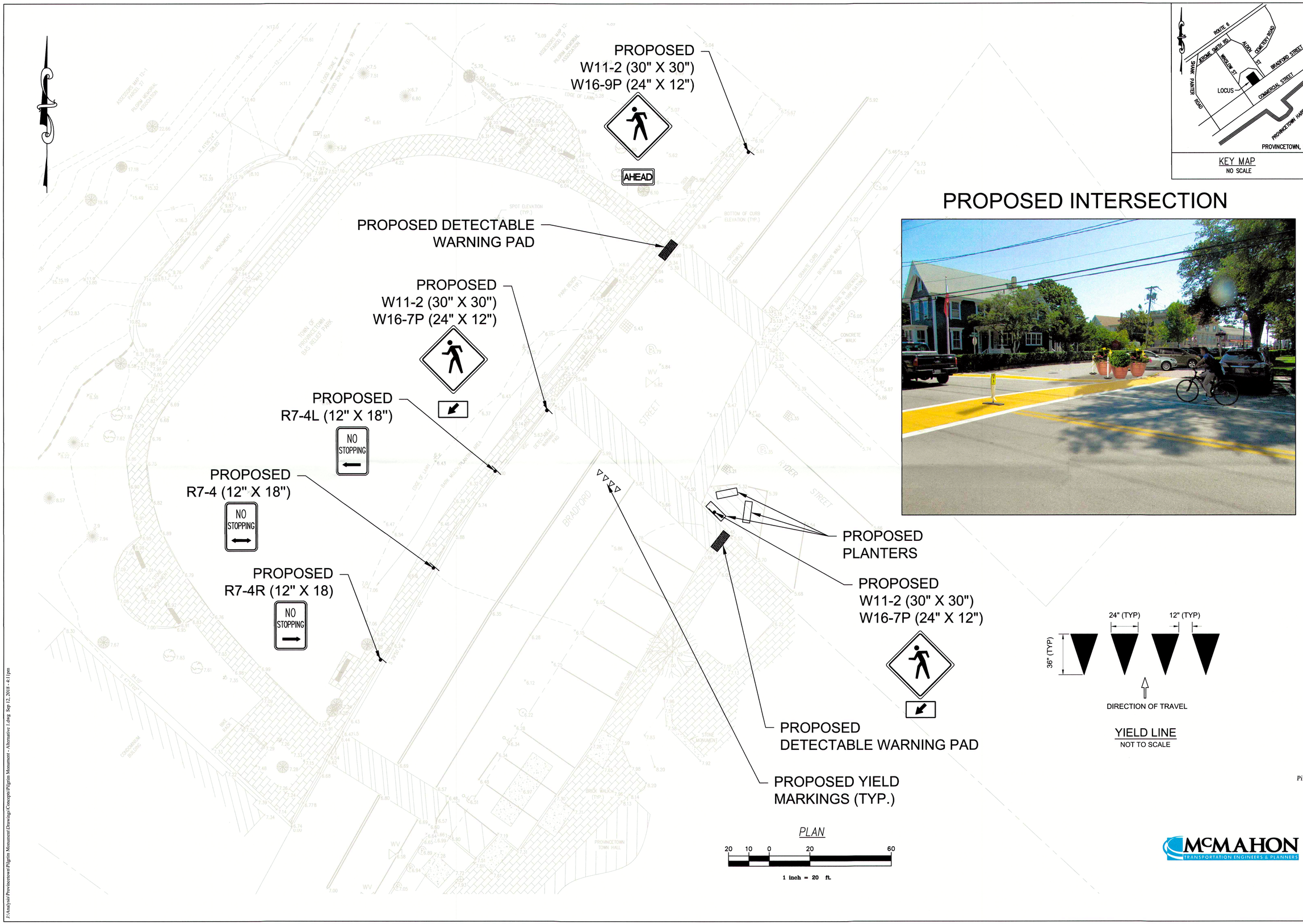
BOLD

OUTDOOR ENGINEERS

BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS, INC.

CASHMAN CONSTRUCTION MANAGEMENT

5A



PROPOSED INTERSECTION

COASTAL engineering co.
260 Cranberry Hwy. Orleans, MA 02653
508.255.6511 P 508.255.6700 F

NO.	DATE	REVISION	BY

SEAL

DRAFT

PROJECT
CAPE COD PILGRIM MEMORIAL ASSOCIATION
1 HIGH POLE ROAD PROVINCETOWN, MA

SHEET TITLE
PLAN SHOWING EXISTINGCONDITIONS
RYDER STREET INTERSECTION

SCALE	AS NOTED
DRAWING FILE	Pilgrim Monument - Alternative 1.dwg
DATE	09-04-18
DRAWN BY	KES
CHECKED BY	JRN

C3.1.1

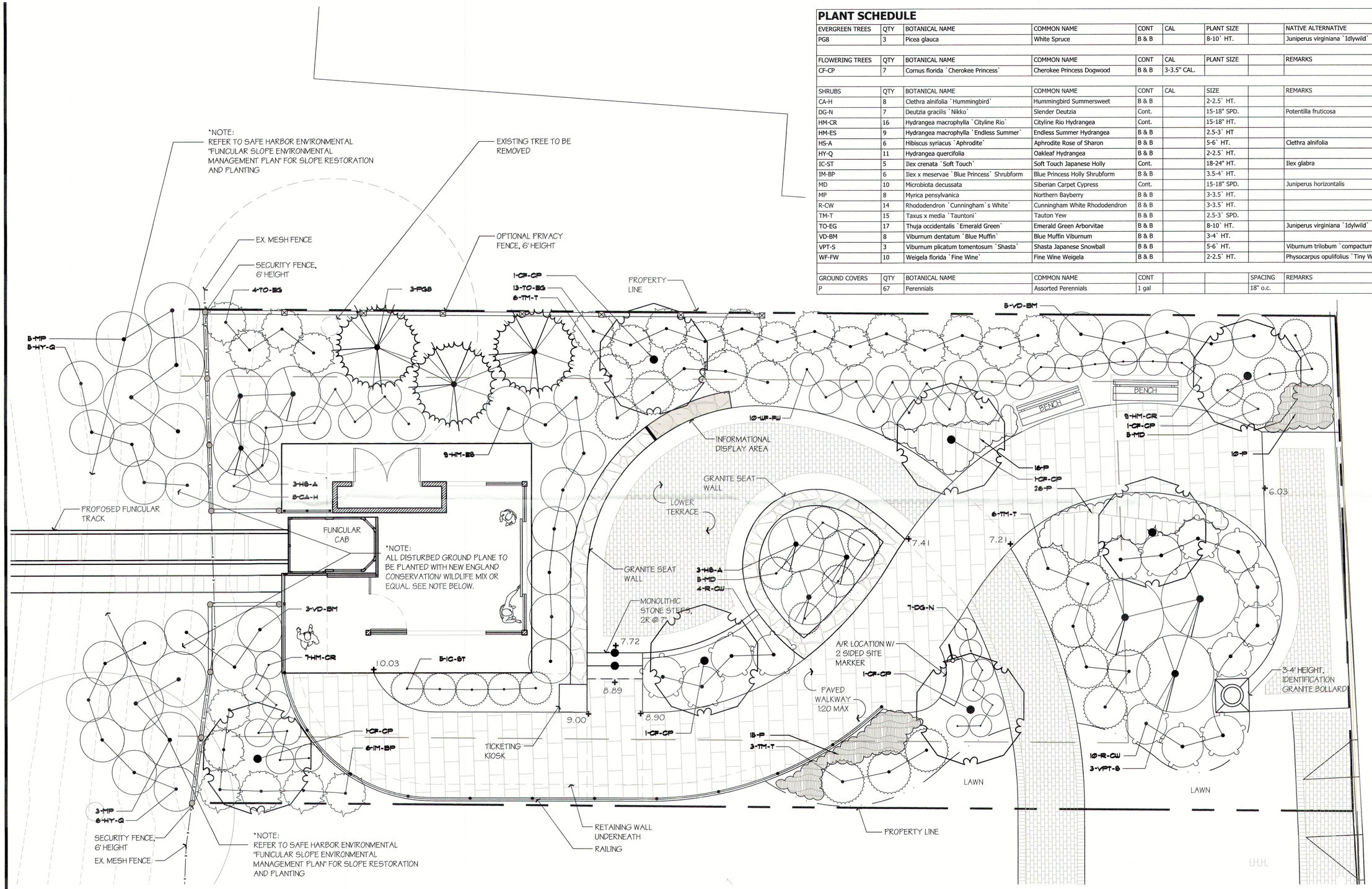
1 OF 1 SHEETS

PROJECT NO. C14394.08

McMAHON TRANSPORTATION ENGINEERS & PLANNERS

Coastal Engineering Co., Inc. © 2018

F:\Analysis\Provincetown\Pilgrim Monument\Drawings\Concepts\Pilgrim Monument - Alternative 1.dwg Sep 12, 2018 - 4:11pm



PLANT SCHEDULE

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE		NATIVE ALTERNATIVE
PG8	3	Picea glauca	White Spruce	B & B		8-10` HT.		Juniperus virginiana `Idlywild`
FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE		REMARKS
CF-CP	7	Cornus florida `Cherokee Princess`	Cherokee Princess Dogwood	B & B	3-3.5" CAL.			
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE		REMARKS
CA-H	8	Clethra alnifolia `Hummingbird`	Hummingbird Summersweet	B & B		2-2.5` HT.		
DG-N	7	Deutzia gracilis `Nikko`	Slender Deutzia	Cont.		15-18" SPD.		Potentilla fruticosa
HM-CR	16	Hydrangea macrophylla `Cityline Rio`	Cityline Rio Hydrangea	Cont.		15-18" HT.		
HM-ES	9	Hydrangea macrophylla `Endless Summer`	Endless Summer Hydrangea	B & B		2.5-3` HT		
HS-A	6	Hibiscus syriacus `Aphrodite`	Aphrodite Rose of Sharon	B & B		5-6` HT.		Clethra alnifolia
HY-Q	11	Hydrangea quercifolia	Oakleaf Hydrangea	B & B		2-2.5` HT.		
IC-ST	5	Ilex crenata `Soft Touch`	Soft Touch Japanese Holly	Cont.		18-24" HT.		Ilex glabra
IM-BP	6	Ilex x meservae `Blue Princess` Shrubform	Blue Princess Holly Shrubform	B & B		3.5-4` HT.		
MD	10	Microbiota decussata	Siberian Carpet Cypress	Cont.		15-18" SPD.		Juniperus horizontalis
MP	8	Myrica pensylvanica	Northern Bayberry	B & B		3-3.5` HT.		
R-CW	14	Rhododendron `Cunningham`s White`	Cunningham White Rhododendron	B & B		3-3.5` HT.		
TM-T	15	Taxus x media `Tauntoni`	Tauton Yew	B & B		2.5-3` SPD.		
TO-EG	17	Thuja occidentalis `Emerald Green`	Emerald Green Arborvitae	B & B		8-10` HT.		Juniperus virginiana `Idylwild`
VD-BM	8	Viburnum dentatum `Blue Muffin`	Blue Muffin Viburnum	B & B		3-4` HT.		
VPT-S	3	Viburnum plicatum tomentosum `Shasta`	Shasta Japanese Snowball	B & B		5-6` HT.		Viburnum trilobum `compactum`
WF-FW	10	Weigela florida `Fine Wine`	Fine Wine Weigela	B & B		2-2.5` HT.		Physocarpus opulifolius `Tiny Wine`
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT			SPACING	REMARKS
P	67	Perennials	Assorted Perennials	1 gal			18" o.c.	

Base plan information provided electronically by Coastal Engineering Company of Orleans, Massachusetts and Brown Lindquist Fenuccio & Raber Achitects, Inc of Yarmouthport, MA.

Hawk Design, Inc.
Landscape Architecture
Land Planning
Sagamore, MA
508-833-8800
info@hawkdesigninc.com

HAWK DESIGN, INC. 2018

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COASTAL ENGINEERING COMPANY, INC.
194 Cranberry Hwy, Orleans, MA 02653
508-255-2311 | Fax: 508-255-8286

Date: 04.20.18

Revisions:

Num.	Date	Description
1.	06.07.18	Revised Plan
2.	07.09.18	Revised Plan
3.	09.07.18	Revised Plan

Bradford Access Project

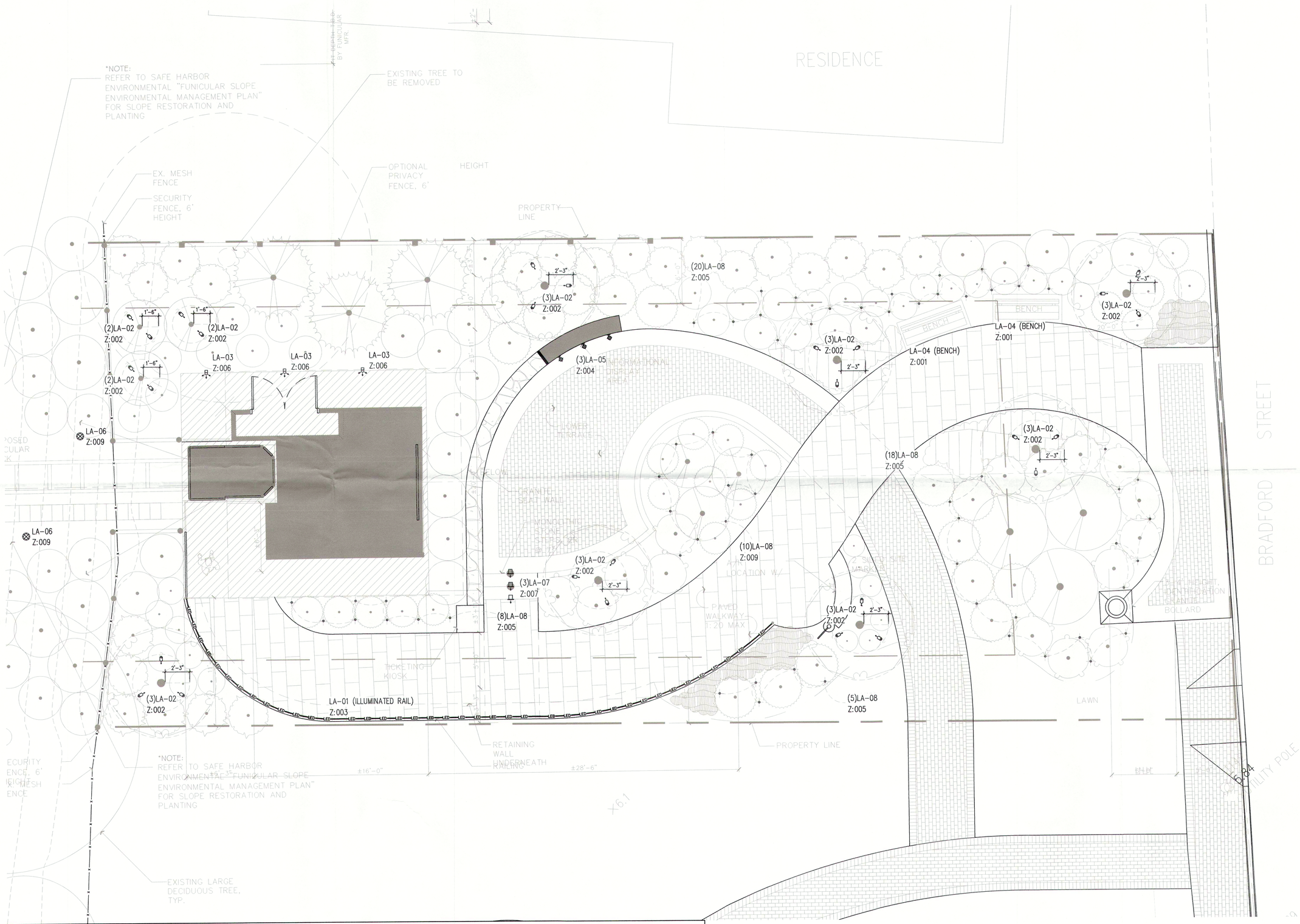
Provincetown, Massachusetts

Drawn By: JP | Checked By: DH

Submission Planting Plan-A

Scale: 1/4" = 1'-0"

Sheet: L1.1



1	1/4"=1'-0"	OPEN PAVILION LIGHTING PLAN

NOTE: THESE DRAWINGS ARE FOR INTERNAL REVIEW AND REFERENCE ONLY. REFER TO ARCHITECTURAL, INTERIOR DESIGN OR ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONED LOCATION OF LIGHTING FIXTURES.

BOLD

BRIAN ORTER LIGHTING DESIGN

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NEW YORK, NY 10001
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213.412.3180

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OFFICE@BRIANORTER.COM

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PILGRIM MONUMENT
(BRADFORD STREET ACCESS)

PROVINCETOWN, MA

NOT FOR CONSTRUCTION

DRAWING TITLE:
PROPOSED LIGHTING PLAN

DATE:
09/14/2018

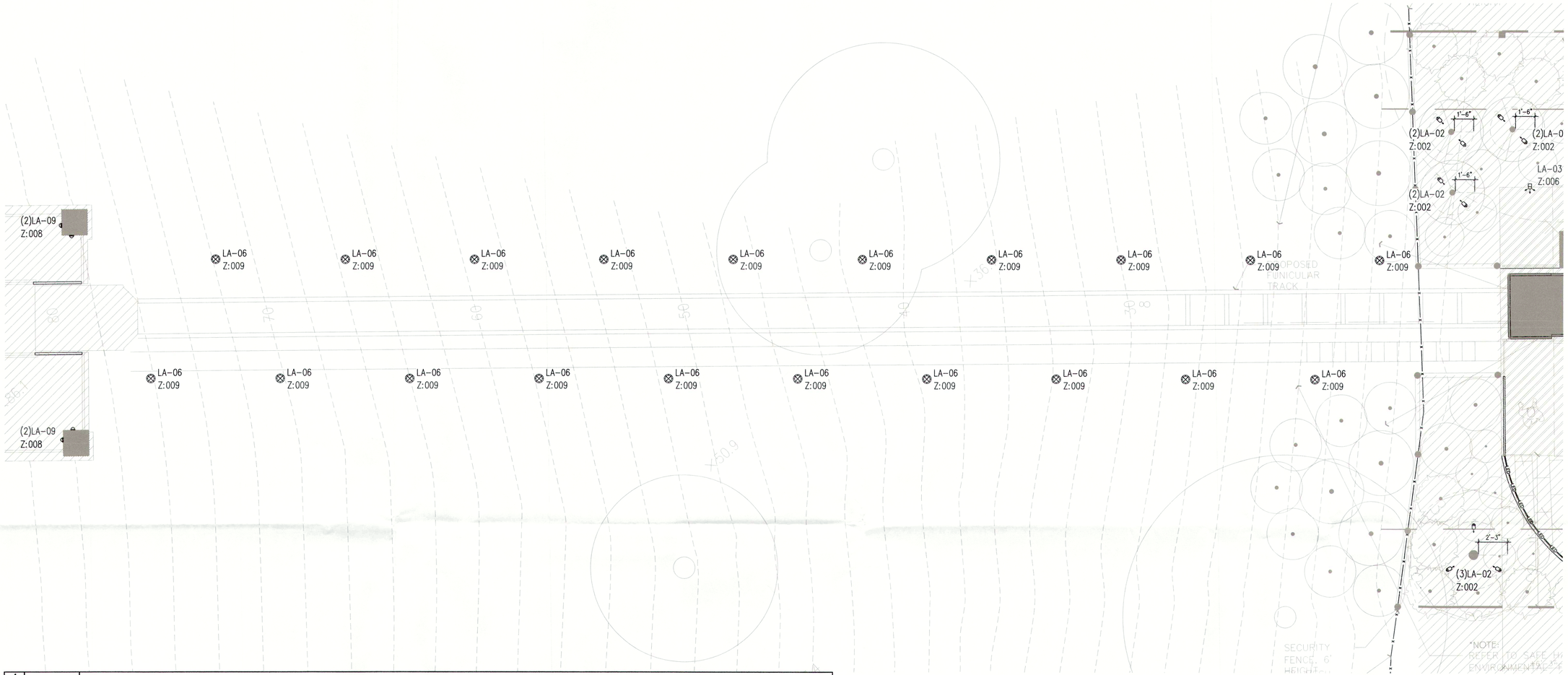
ISSUANCE:
DESIGN DEVELOPMENT

PROJECT NO:
N1820

SCALE:
AS NOTED

DRAWING NO:

LT-101



1 | 1/4"=1'-0" | FUNICULAR PATHWAY LIGHTING PLAN

2 | 1/4"=1'-0" | FUNICULAR PLATFORM LIGHTING PLAN

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PILGRIM MONUMENT
(BRADFORD STREET ACCESS)

PROVINCETOWN, MA

NOT FOR CONSTRUCTION

DRAWING TITLE:
PROPOSED LIGHTING PLAN

DATE:
09/14/2018

ISSUANCE:
DESIGN DEVELOPMENT

PROJECT NO:
N1820

SCALE:
AS NOTED

DRAWING NO:

LT-102

GENERAL NOTES:

1. THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A FUNICULAR SYSTEM WITH ASSOCIATED SITE IMPROVEMENTS.

2. SUPPLY MATERIAL, EQUIPMENT AND LABOR TO INSTALL THE PROPOSED WORK ALONG THE ACCESS AS DESCRIBED AND SHOWN ON THE PLAN AND DETAILS.

3. PERFORMANCE OF THE WORK SHALL BE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS FOR THE REFERENCED PROJECT AND AS DESCRIBED BELOW.

4. ACCESS TO BE FROM OWNERS PROPERTY, WITH MATERIAL BROUGHT IN FROM BOTH THE UPLAND AND BRADFORD STREET.

5. CONSTRUCTION DETAILS TO BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.

6. ALL DISTURBED AREAS TO BE REVEGETATED TO MATCH PRE-CONSTRUCTION CONDITIONS.

7. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

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9. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO EXCAVATION, AND SHALL PROTECT UTILITIES AND STRUCTURES WITHIN THE WORK AREA DURING CONSTRUCTION.

10. NO PART OF THIS DESIGN SHALL BE ALTERED WITHOUT PRIOR APPROVAL FROM THE DESIGN ENGINEER. ALL REQUESTS FOR CHANGES SHALL BE MADE IN WRITING PRIOR TO CONSTRUCTION.

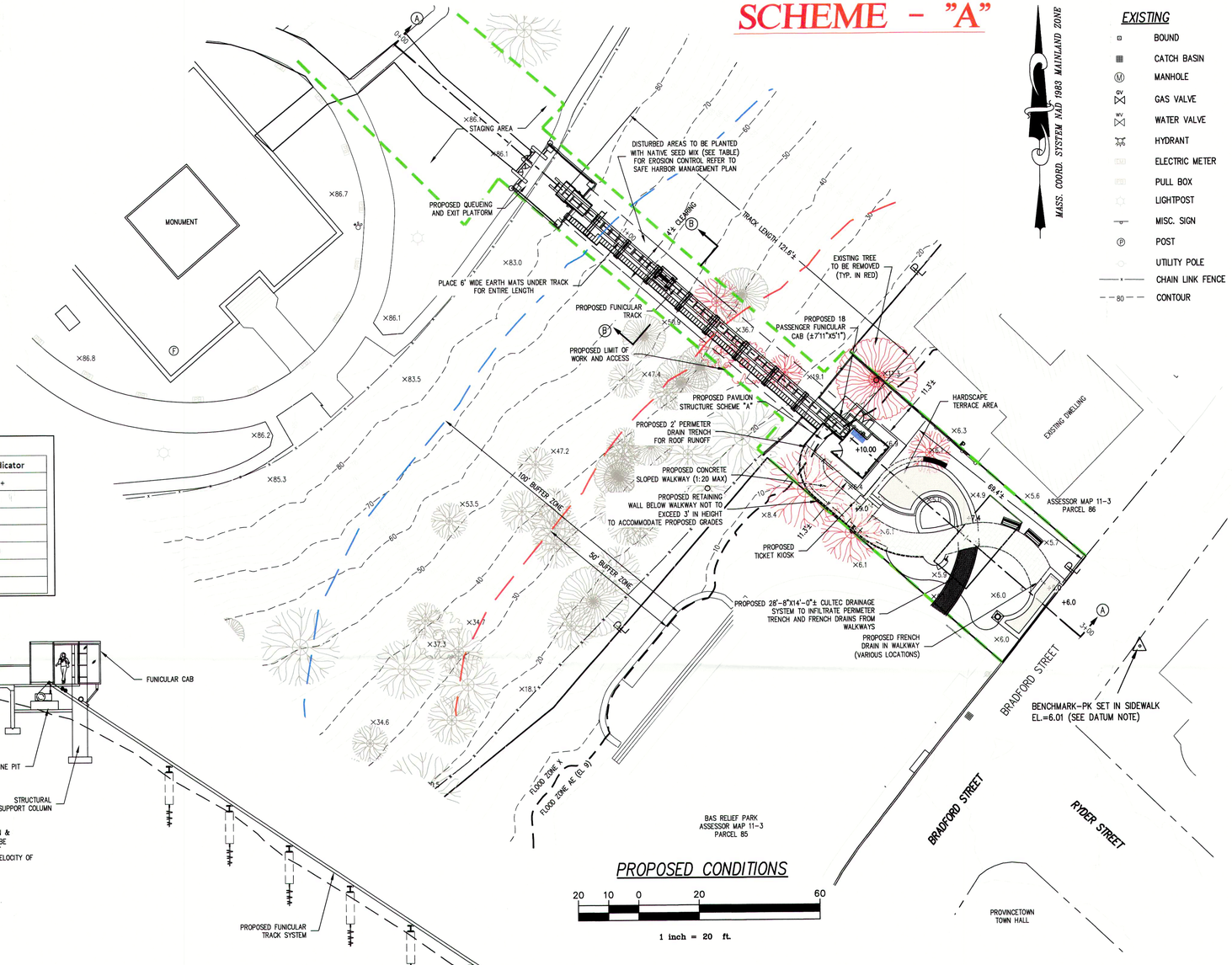
11. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF NON VISIBLE OBSTRUCTIONS.

12. EARTH MAT SHALL BE SECURED USING COMMERCIAL CLAM FARM 24" METAL STAPLES EVERY 3 FT INSTALLED VERTICALLY OVER SAFE HARBOR SLOPE STORM WATER MANAGEMENT MINIMAL BENCHING.

New England Erosion Control/Restoration Mix for Dry Sites

Botanical Name	Common Name	Indicator
Elymus canadensis	Canada Wild Rye	FACU+
Festuca rubra	Red Fescue	FACU
Lolium multiflorum	Annual Ryegrass	
Lolium perenne	Perrenial Ryegrass	
Schizachyrium scoparium	Little Bluestem	FACU
Panicum virgatum	Switch Grass	FAC
Sorghastrum nutans	Indian Grass	UPL

SCHEME - "A"



PROPOSED CONDITIONS

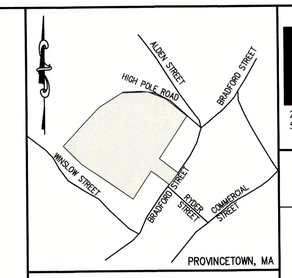
20 10 0 20 60

1 inch = 20 ft.

LEGEND

EXISTING

- BOUND
- CATCH BASIN
- MANHOLE
- GAS VALVE
- WATER VALVE
- HYDRANT
- ELECTRIC METER
- PULL BOX
- LIGHTPOST
- MISC. SIGN
- POST
- UTILITY POLE
- CHAIN LINK FENCE
- 80 CONTOUR



KEY MAP
NO SCALE

PLAN REFERENCES:

ASSESSORS MAP 12-1, PARCEL 27

PLAN BOOK 8, PAGE 129

L.C.P. 16813A

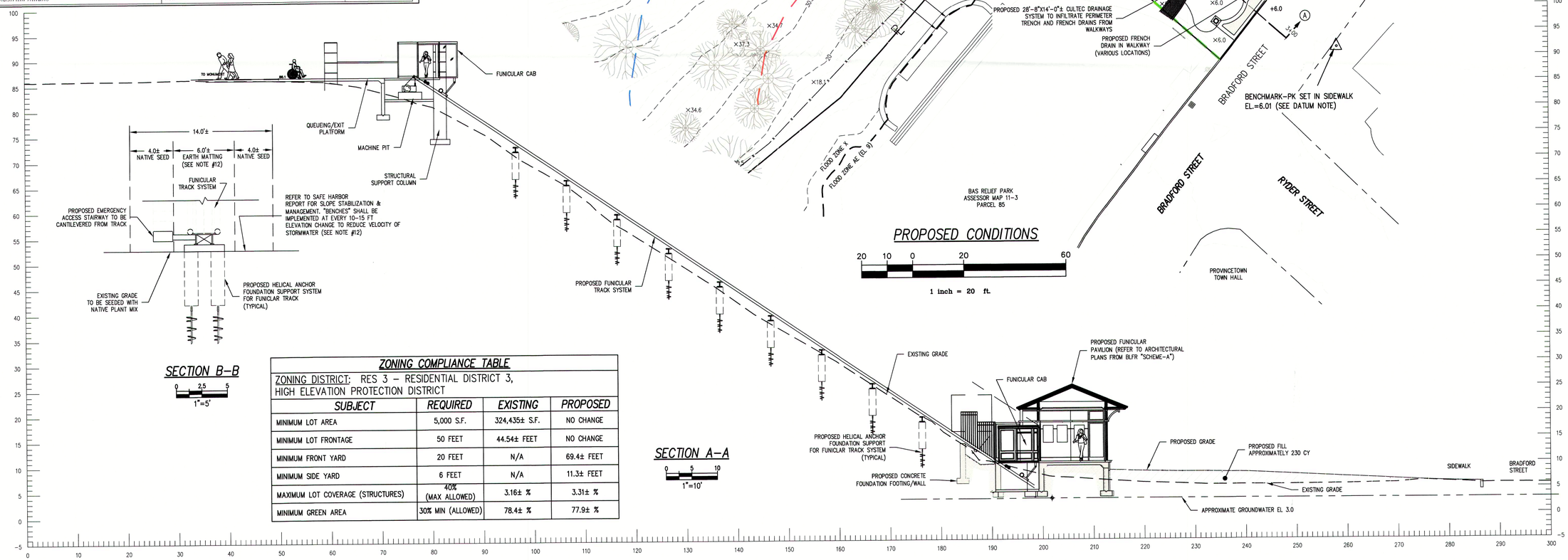
A PORTION OF THE TOPOGRAPHIC DATA SHOWN HEREON IS FROM NORTH EAST 2011 LIDAR TERRAIN DATA DOWNLOADED FROM NOAA WEBSITE JANUARY, 2015.
TOPOGRAPHIC DATA SHOWN WITHIN PAVED ACCESS DRIVE'S, EDGE OF PAVEMENT, BRICK WALKS AND MONUMENT AREA ON BRADFORD STREET, TAKEN FROM ON THE GROUND SURVEY.

FLOOD NOTE:

FLOOD ZONE AE (EL 9) AS SHOWN ON FEMA FIRM PANEL #25001C0112J & #25001C0116J DATED JULY 16, 2014

DATUM NOTE:

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)



SECTION B-B

0 2.5 5
1"=5'

SECTION A-A

0 5 10
1"=10'

ZONING COMPLIANCE TABLE

ZONING DISTRICT: RES 3 - RESIDENTIAL DISTRICT 3, HIGH ELEVATION PROTECTION DISTRICT

SUBJECT	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	5,000 S.F.	324,435± S.F.	NO CHANGE
MINIMUM LOT FRONTAGE	50 FEET	44.54± FEET	NO CHANGE
MINIMUM FRONT YARD	20 FEET	N/A	69.4± FEET
MINIMUM SIDE YARD	6 FEET	N/A	11.3± FEET
MAXIMUM LOT COVERAGE (STRUCTURES)	40% (MAX ALLOWED)	3.16± %	3.31± %
MINIMUM GREEN AREA	30% MIN (ALLOWED)	78.4± %	77.9± %

FOR ARCHITECTURAL DETAILS AND LANDSCAPE ARCHITECTURAL DETAILS PLEASE REFER TO SUBMITTED PLANS FROM BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS AND HAWK DESIGN, INC FOR MORE INFORMATION

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ISSUED FOR REGULATORY (PPB) REVIEW 9/17/18

COASTAL ENGINEERING COMPANY, INC.
260 Cranberry Hwy. Orleans, MA 02653
508.255.6511 Fax: 508.255.6700

NO.	DATE	REVISION	BY
3	2018-09-17	REVISED LAYOUT SCHEME A	JRN
2	2018-07-09	ADD SECTION B-B, REMOVE STONE RIP RAP UNDER TRACK	JRN
1	06-14-18	REVISED STRUCTURES	KES

SEAL: COMMONWEALTH OF MASSACHUSETTS ROGER PAUL MICHNIEWICZ CIVIL PROFESSIONAL ENGINEER 9-17-18

PROJECT: CAPE COD PILGRIM MEMORIAL ASSOCIATION, PROVINCETOWN, MA
ONE HIGH POLE HILL ROAD

SHEET TITLE: PLAN SHOWING PROPOSED SITE IMPROVEMENTS

SCALE: AS NOTED
DRAWING FILE: C14394-404-NOI 03-2018 - REV 1.dwg
DATE: ~~04-30-18~~
DRAWN BY: KES/JRN
CHECKED BY: JRN

C1.2.1

1 OF 2 SHEETS

PROJECT NO. C14394.08

Coastal Engineering Co., Inc. © 2018

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GENERAL NOTES:

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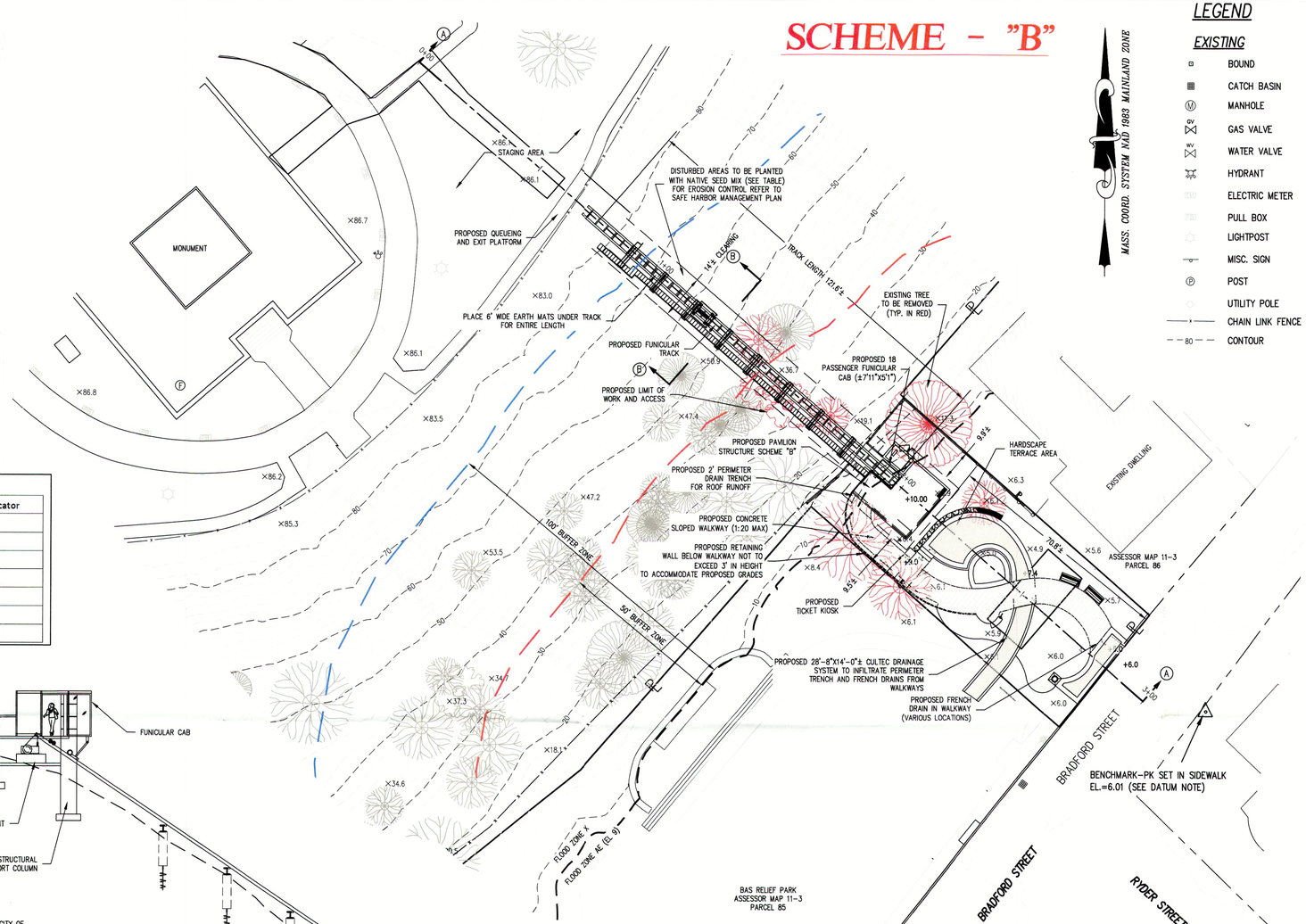

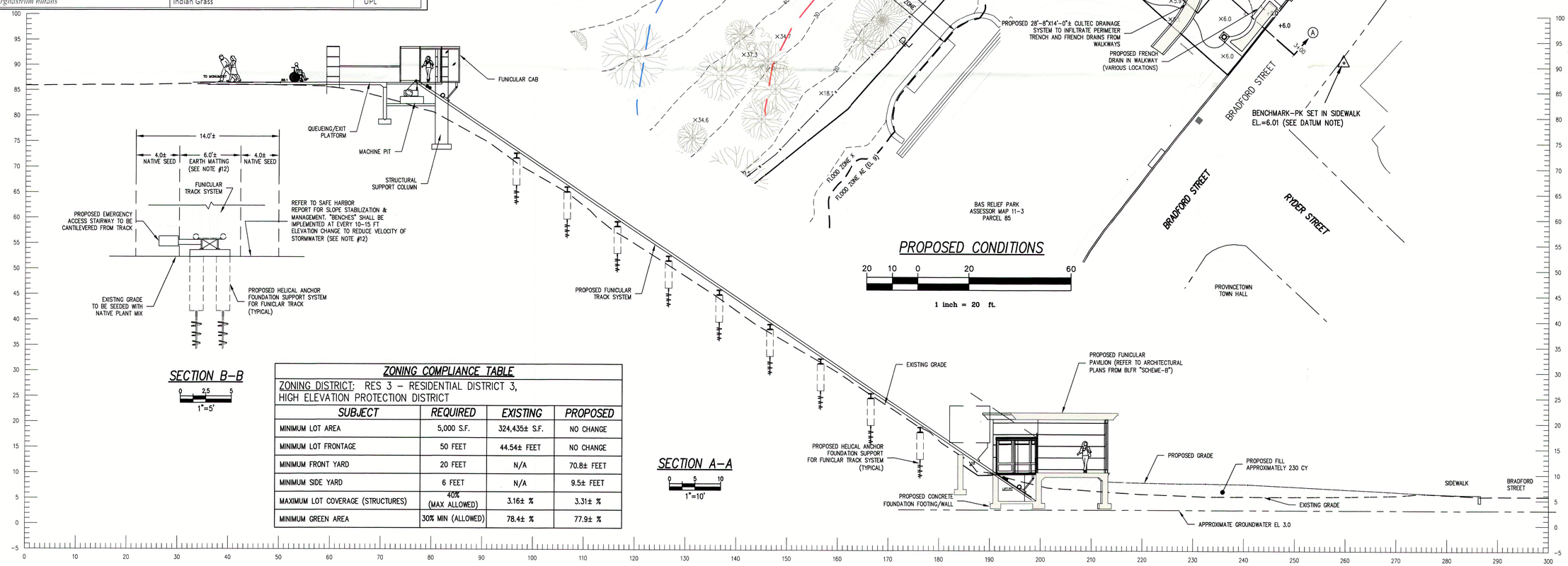

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- CATCH BASIN
- MANHOLE
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- ELECTRIC METER
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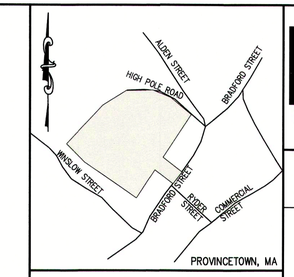
- 80 CONTOUR



KEY MAP
NO SCALE

PLAN REFERENCES:

ASSESSORS MAP 12-1, PARCEL 27

PLAN BOOK 8, PAGE 129

L.C.P. 16813A

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FLOOD NOTE:

FLOOD ZONE AE (EL 9) AS SHOWN ON FEMA FIRM PANEL #25001C0112J & #25001C0116J DATED JULY 16, 2014

DATUM NOTE:

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COASTAL ENGINEERING COMPANY, INC.
260 Cranberry Hwy. Orleans, MA 02653
508.255.6511 Fax: 508.255.6700

NO.	DATE	REVISION	BY
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2	2018-07-09	ADD SECTION B-B, REMOVE STONE RIP RAP UNDER TRACK	JRN
1	06-14-18	REVISED STRUCTURES	KES

SEAL: COMMONWEALTH OF MASSACHUSETTS ROGER PAUL MICHNIEWICZ No. 30401 CIVIL REGISTERED PROFESSIONAL ENGINEER 9-17-18

PROJECT: CAPE COD PILGRIM MEMORIAL ASSOCIATION, ONE HIGH POLE HILL ROAD, PROVINCETOWN, MA

SHEET TITLE: PLAN SHOWING PROPOSED SITE IMPROVEMENTS

SCALE: AS NOTED

DRAWING FILE: C14394-NOI 03-2018 - REV 1.dwg

DATE: ~~04.30.18~~

DRAWN BY: KES/JRN

CHECKED BY: JRN

C1.2.1

1 OF 2 SHEETS

PROJECT NO. C14394.08

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FOR ARCHITECTURAL DETAILS AND LANDSCAPE ARCHITECTURAL DETAILS PLEASE REFER TO SUBMITTED PLANS FROM BROWN LINDQUIST FENUCCIO & RABER ARCHITECTS AND HAWK DESIGN, INC FOR MORE INFORMATION

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F:\SDISK\PROJ\C14000\C14394\C14394.08 - Tramway\C14394NA-NOI 03-2018 - REV 1.dwg Sep 17, 2018 - 10:43am