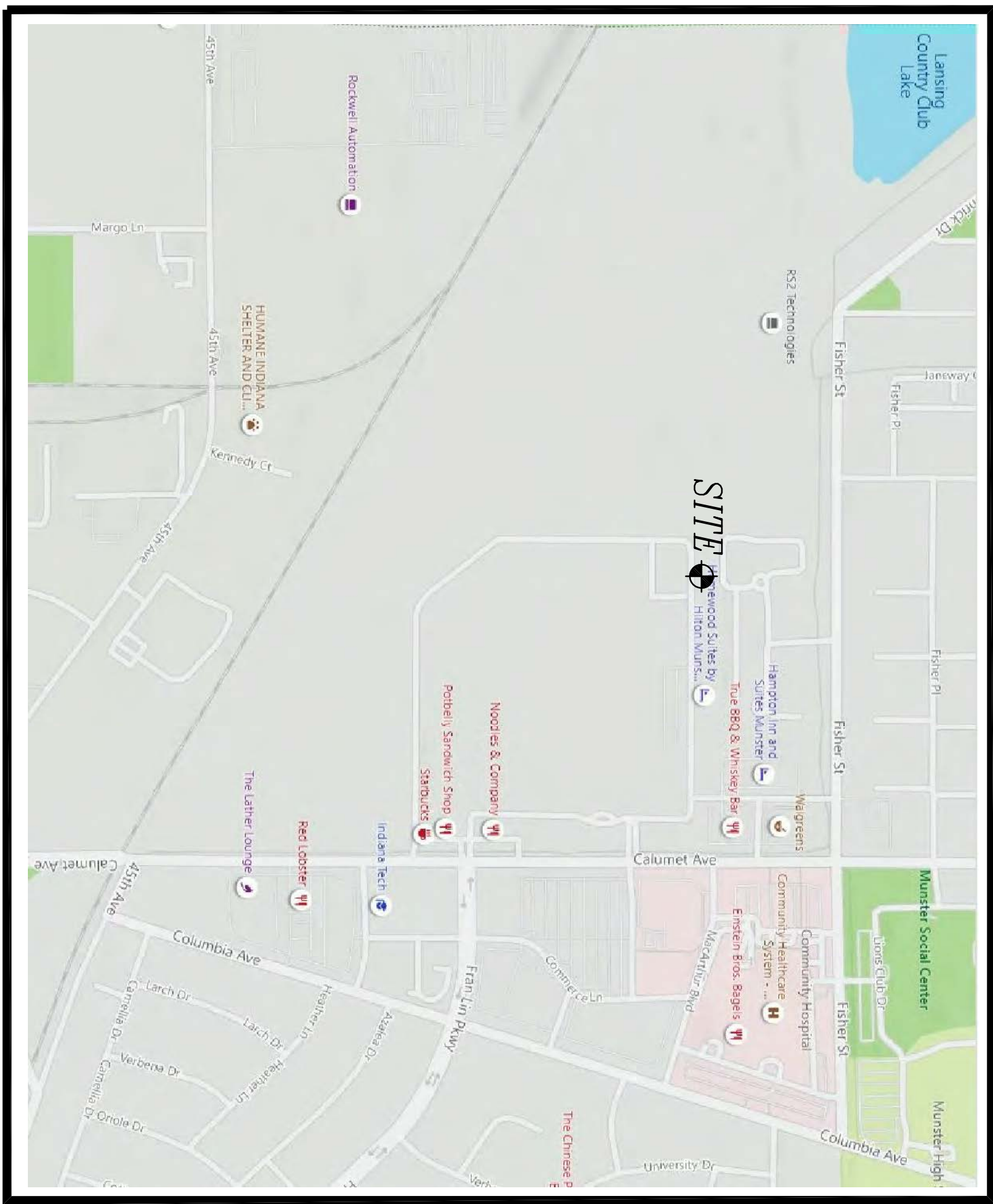
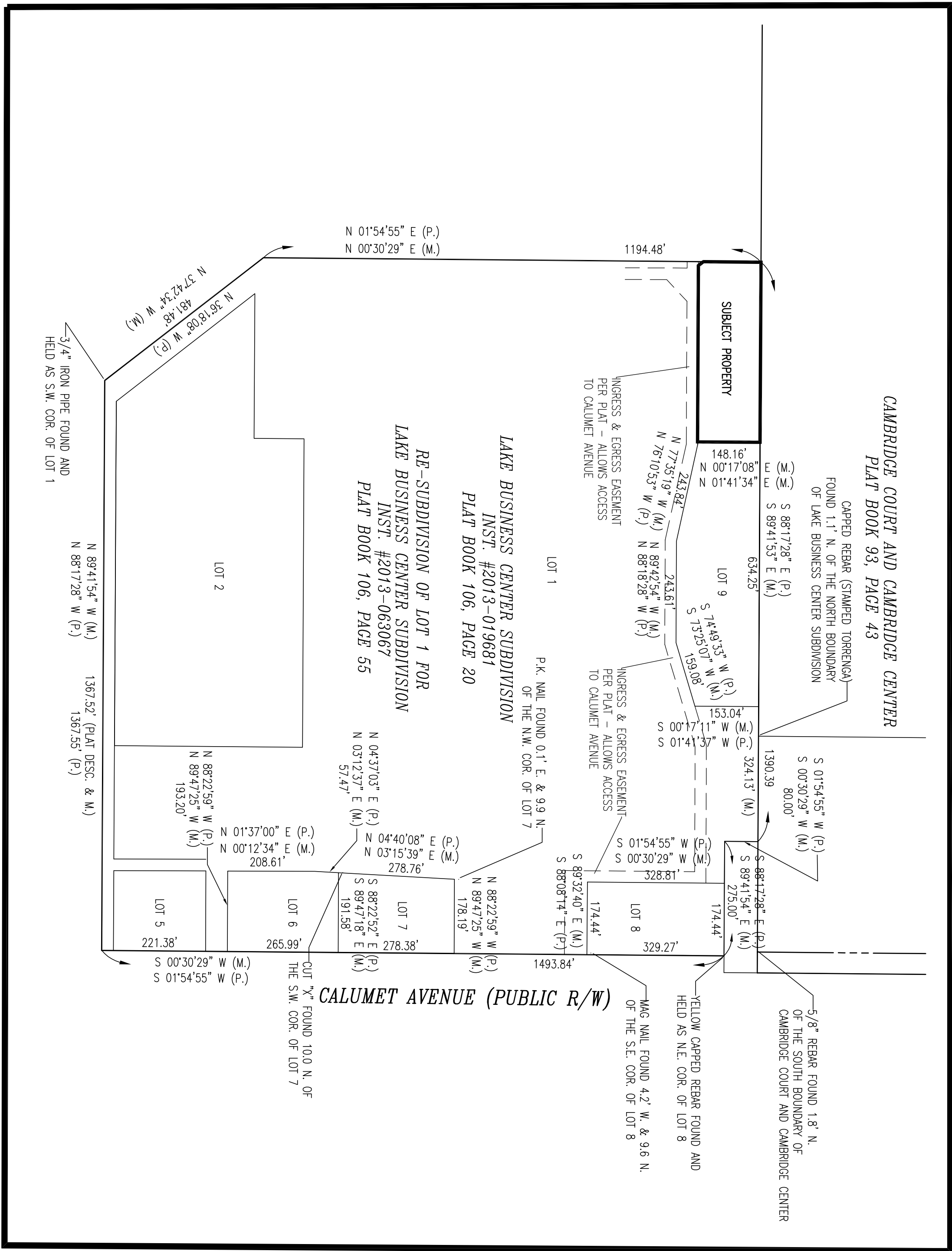


Home2 Suites Munster, Indiana

Project Narrative

The proposed Home2 Suites hotel is a 107 room, 4 story wood framed structure to be built on the northwest corner of the Lake Business Center Planned Unit Development, 9200 Calumet Avenue. The adjacent uses include a residential area on the north and undeveloped land on the west. On the south is an interior access road that provides entry into the parking area and internal circulation to the front receiving area. The site is designed so that a welcoming area is created immediately east of the building including a street style design approach with broad islands including generous walks, street trees and plantings. Shared parking is available on the east and south. On the east 55 spaces are available while on the south 58 spaces are available. On any given day approximately 20 to 30 of these spaces are used. With the 21 new spaces provided in the development area added to the shared parking, the required 134 space count is easily met. Pedestrian crossings are provided to create safe walking circulation to and from the building.

The building exterior incorporate brick in two colors, a limestone first story with vertical elements at the long facades/entry corner and metal panel accents at the parapet and corner transitions in conformance with Munster zoning requirements. The entrance includes a generous Porte cochere and on the southeast a comfortable seating area for people watch or wait for family.

VICINITY MAP
NO SCALE

SUBDIVISION PLAT DETAIL

SCALE: 1"=200'

Certify to: Hospitality Project Services

This is to certify that this map or plan and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 7(a), 8, 9, 11, and 13 in Table A thereof. The field work was completed January 23, 2020 and August 25, 2021.

I, the undersigned, do hereby certify that to the best of my professional knowledge and belief the within plot accurately represents a survey performed on January 23, 2020 and August 25, 2021 of the within described real estate and that said survey was performed in accordance with Title 865, Article 1, Rule 12 of the Administrative Code establishing minimum standards for the practice of Land Surveying in Indiana.

LAND DESCRIPTION

The following decision is based on a survey performed by Cripe and certified by Eric C. White, P.S., No. 292000012, dated August 26, 2021, Job No. 19049-10000. Part of Lot Number 1 of Re-Subdivision of Lot 1 for Lake Business Center Subdivision, on addition to the Town of Munster, Lake County, Indiana, as per plat of record, recorded as instrument No. 2013-063007, Plat Book 106, Page 52, in the Office of the Recorder of Lake County, Indiana, more particularly described as follows:

beginning at the westmost corner of said lot 1; thence South 89 degrees 44 minutes 55 seconds East (grid bearing based upon Indiana State Plane Coordinate System – East Zone, NAD83) along the north boundary of said lot 1 a distance of 432.011 feet to the northwest corner of lot 9 of Lake Business Center Subdivision, as recorded on Instrument No. 2013-0109681 in said Recorder's Office and a 5/8 inch diameter rebar with yellow cap stamped "Cape Fire No. 0055" (hereinafter referred to as "rebar"); thence South 00 degrees 17 minutes 06 seconds West along the west line of said lot 9 and the Southerly extension thereof 149.97 feet to the boundary of an ingress and egress easement as shown on plat Re-Subdivision and a mag nail with washer stamped "Cape Fire No. 0055"; thence North 89 degrees 44 minutes 52 seconds West along said north boundary 423.13 feet to a rebar; thence North 37 degrees 42 minutes 06 seconds West 13.51 feet to the west boundary of said lot 1 and a rebar; thence North 00 degrees 30 minutes 29 seconds East along said east boundary 138.23 feet to the POINT OF BEGINNING, containing 1,489 acres, more or less.

I further certify that the subject property is located within an unshaded Flood Zone X (areas determined to be outside the 0.2% annual chance floodplain) as plotted by scale from "FIRM," Flood Insurance Rate Map, Community Number 180139 0117 E, Town of Munster, Lake County, Indiana, effective date, January 18, 2012, as prepared by the Federal Emergency Management Agency. The accuracy of any flood hazard data shown on this Flood Insurance Rate Map is subject to map scale uncertainty and to any other uncertainty in location or elevation on the reference

SURVEYOR'S REPORT

In accordance with the 865, Article 1, Rule 12, of the Indiana Administrative Code, establishing minimum standards for the practice of land surveying in Indiana, effective August 16, 1991, the following observations and opinions are submitted regarding the various uncertainties in the location of the lines and corners established on this survey as a result of:

- b) *Avoidability and condition of reference monuments;*
- c) *Clarity or ambiguity of the record description used and of adjoining descriptions and the relationship of the lines of the subject tract with adjoining lines;*
- d) *Occupation or possession lines;*
- e) *The relative positional accuracy of the measurements;*

This is a survey of a new parcel of land that is part of Lot 1 of the Re-Subdivision of Lot 1 of Lake Business Center Subdivision, recorded as Instrument No. 2013-063067, Plat Book 106, page 55.

The location of the corners and the lines of the subject real estate is dependent upon the location of the west and north boundaries of said Lot 1, the west line of Lake Business Center Subdivision (Inst. No. 2013-019681, Plat Book 106, page 20), and the north boundary of the 27 foot ingress-egress easement as shown in said Re-Subdivision of Lot 1 of Lake Business Center Subdivision and said Lake Business Center Subdivision.

The basis of bearings is Indiana State Plane Coordinate System West Zone (NAD83)

The location of the pitpits for Lake Business Center Subdivision and the Re-Subdivision of Lot 1 for Lake Business Center Subdivision were established from holding the plotted angles and distances and holding a yellow cedar board found and accepted as the northeast corner of Lot 8 and relating it to fit a 3/4 inch iron pin found and accepted as the southwest corner of Lot 1. Several other monuments were found near the corners of the lots within the plot but none of them fit together. If some of the other found monuments were used to fix the location of the pit it would create a possible overlap of 9 to 10 feet with the plot to the north (Cambridge Center Subdivision Center) based on occupation and monuments found along the line between Lake Business Center Subdivision and Cambridge Court and Cambridge Center.

The north and west lines of the subject property are contiguous with the west and north lines of said Re-Subdivision and Lot 1 of Lake Business Center. The east line of said subject property is contiguous with the east line of Lot 9 of said Lake Business Center Subdivision. The south line of the subject property is contiguous with the north boundary of the ingress-egress easement shown on said Re-Subdivision and said Lake Business Center.

The site has access to Calumet Avenue (public right of way) through the platted ingress-egress easement.


Occupation evidence is as shown on the within survey. There are no fences located along the boundary of the subject real estate. There is an asphalt parking area that is located as much as 28 1/2 feet onto the east side of the property. It appears to be used by the east adjoining hotel property. There is a stone access drive that cuts across the southwest corner of the property that appears to allow access to a property to the north that is owned by the town of Munster.

There are no major discrepancies (gaps and overlaps) between the subject property and the adjoining plats and deeds.

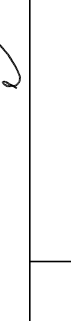
This survey is classified as an urban survey. The acceptable relative positional accuracy for an urban survey is 0.07 feet + 50 ppm, as defined in 865 I.A.C. 1-12-7.

The within plot of survey was prepared without the benefit of current title and as such is subject to any information disclosed in said document. The plats and deeds were provided by Indiana Search Technologies.


FORM 97	ISS. 06-01-2005
PM/ECW	
CHARTER OF 8-1-2005	FILED 01-01-2005
DATED BY: <i>Eric C White</i>	
NAME: ERIC C. WHITE, P.S. #29700012	SEX: M 8-26-2021



Seal of the State of Tennessee, featuring the text "THE GREAT SEAL OF THE STATE OF TENNESSEE" around the perimeter and "1796" at the bottom.



Circular stamp with "ERIC C. WHITE" around the top and "NOTARY PUBLIC" around the bottom. In the center, it says "No. 29700012" and "STATE OF TENNESSEE".

Sheet No. 150149-10000	2 of 2	Scale 1" = 30'	Legal Township: NORTH TWP. — LAKE CO.			ALTA/NSPS LAND TITLE AND TOPOGRAPHIC SURVEY			 3939 Priority Way South Drive, Suite 200 Indianapolis, Indiana 46240 (317) 844-6777 E-Mail cripe@cripe.biz	<ul style="list-style-type: none">● Architecture + Interiors● Civil Engineering● Survey + 3D Laser Scanning● Energy + Facilities● Equipment Planning● Real Estate Services	Revisions		
			Section: 25	Township: 36-N	Range: 10-W	HOME2 SUITES - MUNSTER, IN HOSPITALITY PROJECT SERVICES 2501 S. HIGH SCHOOL ROAD INDIANAPOLIS, IN 46241 PHONE: (317)-556-1585 FAX: (XXX)-XXX-XXXX					Mark	Date	Description
			Record Owner: LBC OWNER LLC										

Parking and View Analysis

Parking Analysis

The additional parking analysis aims to provide supplemental information showing the utilization of current parking at the three Hospitality Project Services owned hotels. Photographs show a snapshot of parking during a typical weekday for both day and the evening times. Hilton standards require 1 parking space per room and the town requires 1.25 spaces per room. As this is a shared parking PUD the use of future buildings or future uses of existing building can vary greatly. There may be opportunities in un-built and under planned areas of the master planned PUD to create additional parking or create public bus transportation to serve future uses. The hotel ultimately requires 69 shared spaces by ordinance see table below. It appears by the snapshot and observations that the demand generated by the two existing and one proposed hotel does not exceed current availability. Developing this area by the same owners makes utilizing and protecting the underground detention system serving the neighboring Homewood Suites less difficult than a separate owner. Overall, the shared spaces will create better efficiencies of the parking capacity available today with the three hotels being adjacent with a single ownership.

Hotel	Rooms	Existing Parking	Proposed Parking	Hilton Standards	Town Standards
Hampton Inn	91	78	78	91	113.75
Homewood Suites	90	201	192	90	112.5
Home2 Suites	107	21	21	107	133.75
Total	288	300	291	288	360
Shared Parking				0	69

View Analysis:

The document also shows the view of the residential neighborhood from a couple of levels of the hotel. The proposed hotel is approximately 82 from the nearest residential structure. The structures that face the hotel are primarily one-story garage with two story flats behind the garage with no south facing windows. A few end units have balconies that have a side view of the hotels. The photographs include show daytime and nighttime views from the upper floors of the existing Homewood Hotel. It appears the proposed Home2 Suites will reflect the surrounding context with minimal view and sun pattern disruption for the neighbors.

Daytime Parking Snapshot



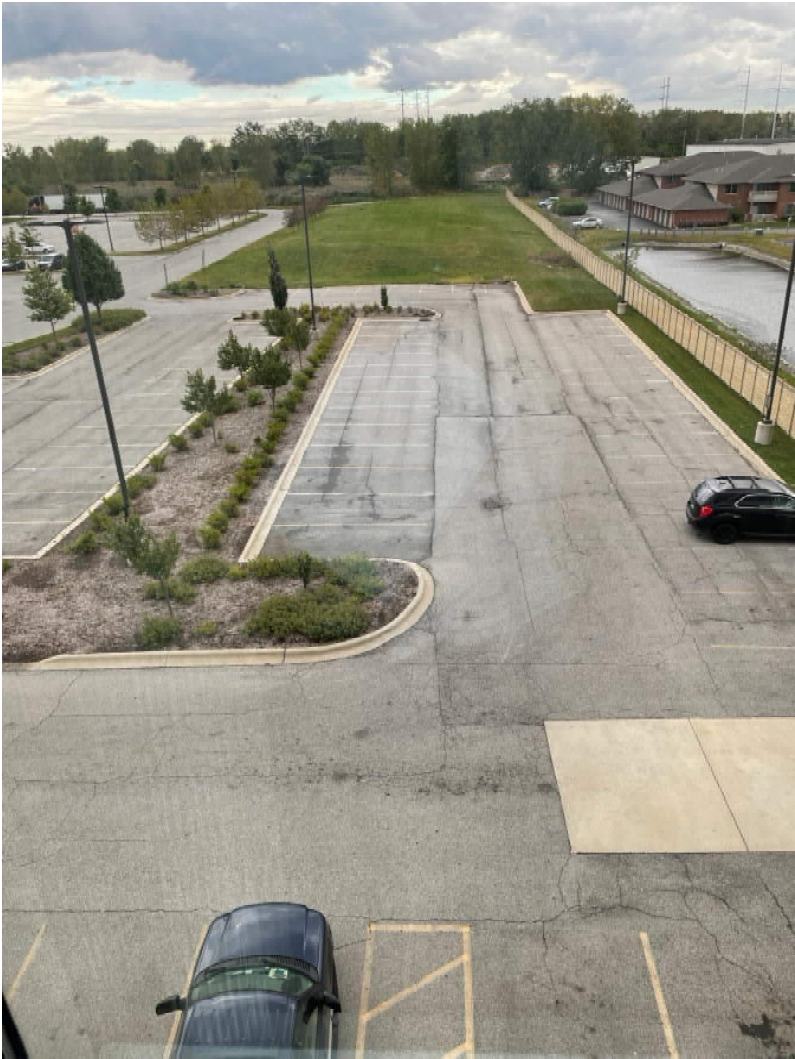
Homewood Suites looking southwest



Homewood Suites looking south



Homewood Suites looking east



Homewood Suites looking west



Homewood Suites looking south

Nighttime Parking Snapshot



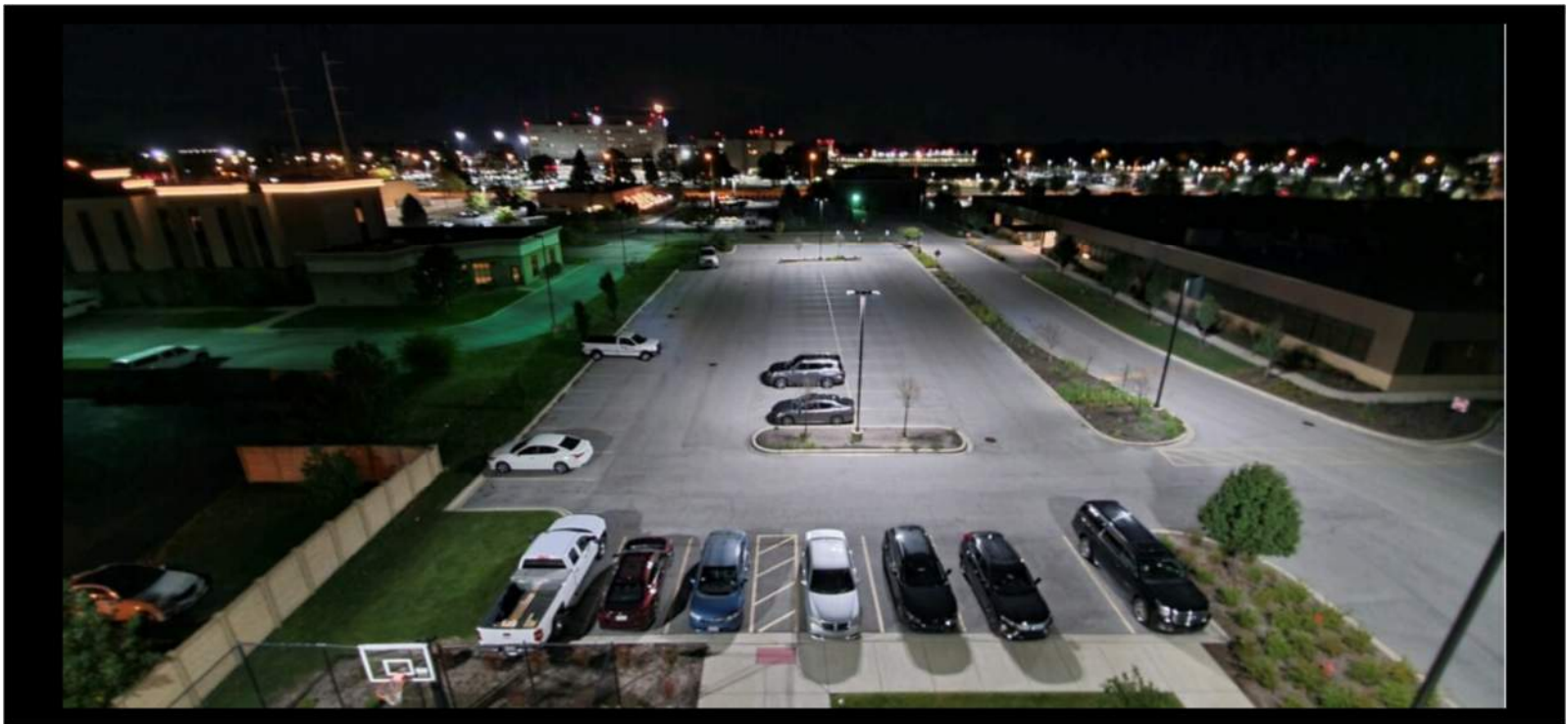
Night view of parking to the southwest



Night view of parking to the southeast



Night view of parking looking west



Night view of parking looking east

Daytime Residential View to the North



Homewood Suites looking northeast



Homewood Suites looking north



Homewood Suites looking north



Homewood Suites looking northwest

Nighttime Residential View to the North



Night view from rear of
Homewood Suites to the north-
west into the residential area



Night view from rear of
Homewood Suites to the north-
west into the residential area



Night view from rear of Home-
wood Suites to the northwest
into the residential area



Home2 Suites Munster, Indiana - Perspective Approaching Entry, 2020/06/18



Home2 Suites Munster, Indiana - East Perspective, 2020/06/18



Home2 Suites Munster, Indiana - East Perspective at Cross Walk, 2020/06/18



Home2 Suites Munster, Indiana - North Perspective, 2020/06/18

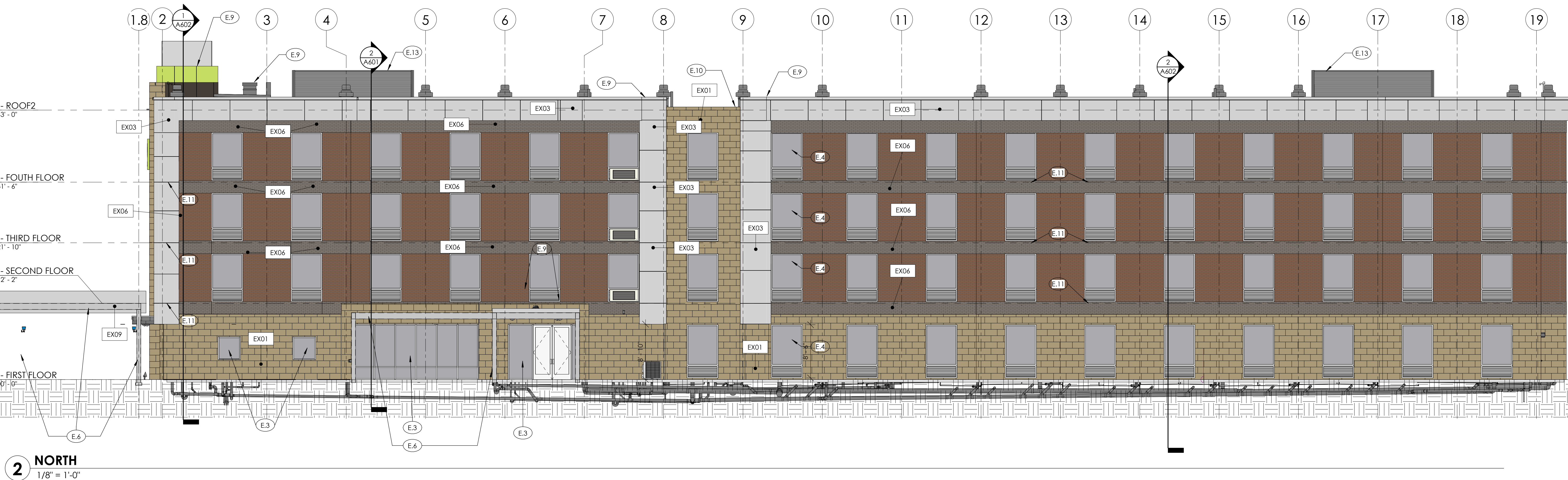


Home2 Suites Munster, Indiana - West Elevation Perspective, 2020/06/26

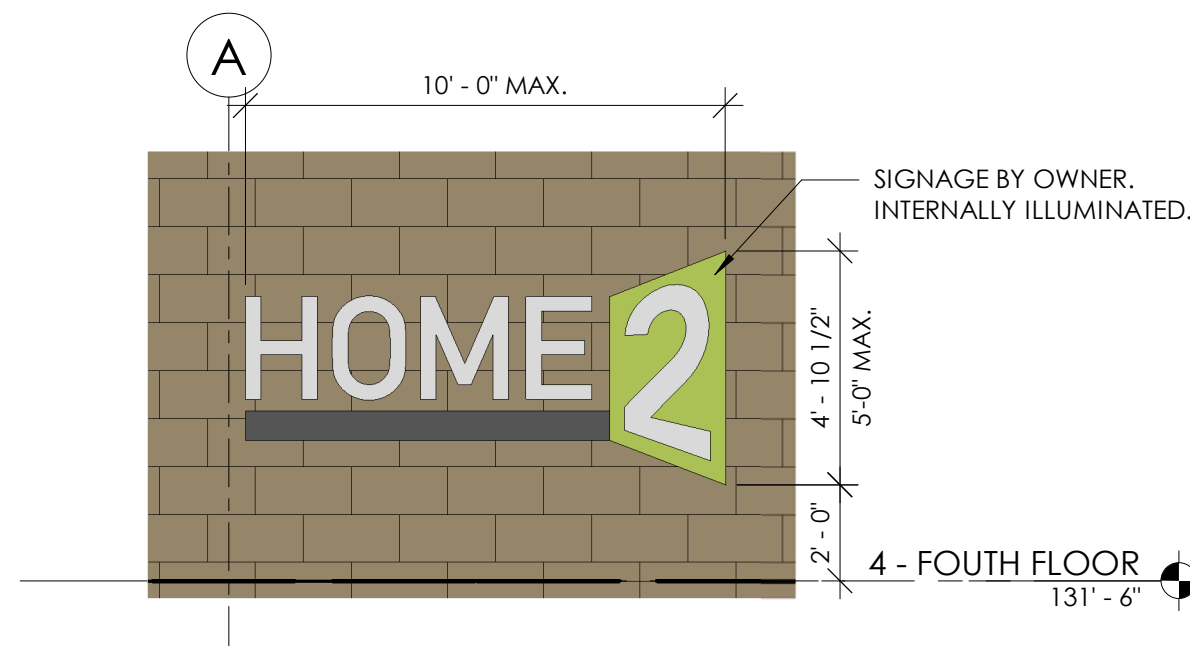


Home2 Suites Munster, Indiana - South Perspective, 2020/06/18

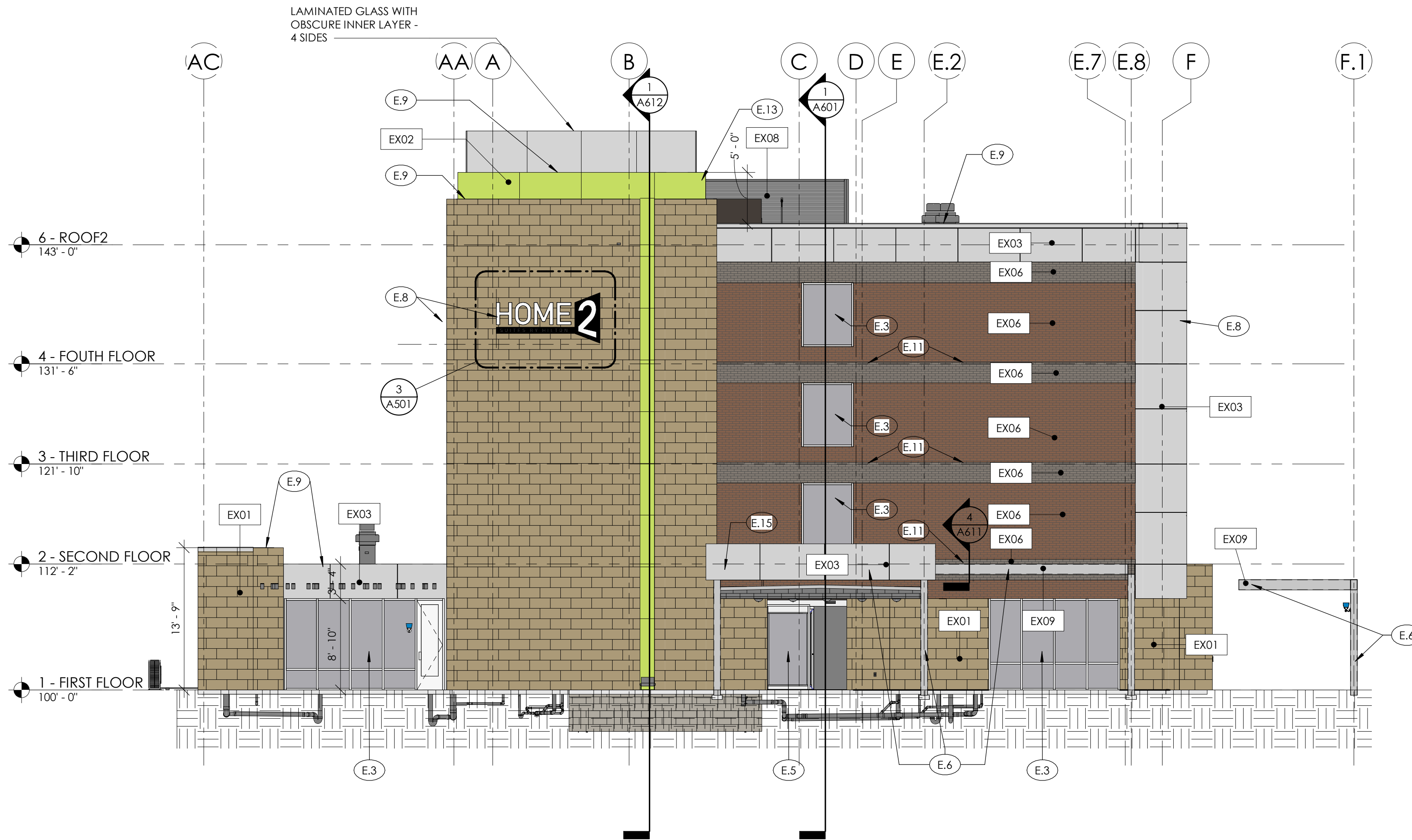
6/26/2020 10:50:58 AM



3 ELEVATION - SIGNAGE EAST
1/4" = 1'-0"



1 EAST
1/8" = 1'-0"



EXTERIOR ELEVATION KEYNOTES

- E.1 EXTERIOR FINISH CONTROL JOINT.
- E.2 LOUVER. PAINTED TO MATCH ADJACENT BUILDING MATERIAL.
- E.3 ALUMINUM STOREFRONT SYSTEM.
- E.4 ALUMINUM FIXED WINDOW WITH INTEGRAL LOUVER AT PTAC.
- E.5 ALUMINUM SLIDING ENTRY DOOR.
- E.6 PAINTED TUBE STEEL CANOPY WITH WOOD TRELLIS.
- E.7 OVERFLOW SCUPPER.
- E.8 SIGNAGE. PROVIDE POWER AND BLOCKED AS REQUIRED.
- E.9 ALUMINUM COPING SYSTEM.
- E.10 ALUMINUM GRAVEL STOP.
- E.11 EXPANSION JOINT AT FLOOR LINE W/ BACKER ROD & SEALANT.
- E.12 4" X 6" RECTANGULAR ALUMINUM GUTTER & 4" X 4" DOWNSPOUT EACH END WITH PRECAST SPLASH BLOCK.
- E.13 MECHANICAL EQUIPMENT SCREEN WALL ASSEMBLY.
- E.14 ENVELOPE -ACCENT FINISH-REFER TO STYLE GUIDE
- E.15 ALUMINUM ADDRESS NUMBERS, 12" HEIGHT, 1" DEPTH.

EXTERIOR FINISH LEGEND

- EX01 SMOOTH CUT LIMESTONE MASONRY
- EX02 METAL PANEL - CUSTOM COLOR
- EX03 METAL PANEL - COLOR "PURE WHITE"
- EX04 METAL PANEL - COLOR "BLACK METALLIC"
- EX06 BRICK
- EX08 LOUVER SCREEN
- EX09 PAINTED STEEL - SHERWIN-WILLIAMS SW7019 HIGH PERFORMANCE COATING

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A501
2020-06-01
Project Number
0190149-10000

**PRELIMINARY
NOT FOR
CONSTRUCTION**

EXTERIOR ELEVATIONS

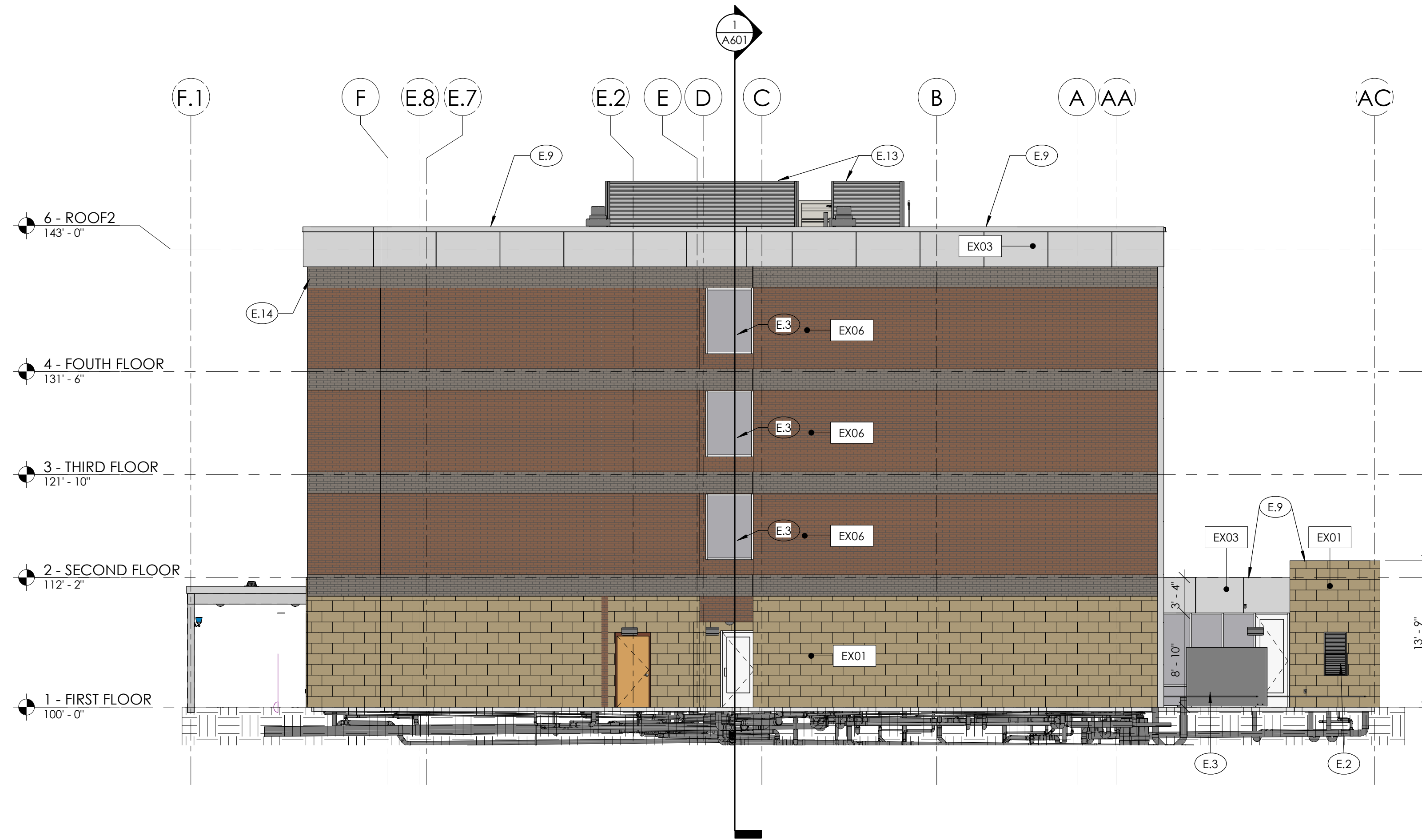
HOSPITALITY PROJECT SERVICES
HOME2 SUITES BY HILTON
920 CALUMET AVE.
MUNSTER, IN 46321

Cripe
Solutions by Design Since 1937

3939 PRIORITY WAY SOUTH DRIVE
SUITE 200
INDIANAPOLIS, IN 46240
Phone (317) 844-4777
E-Mail: cripe@cripe.biz
• SURVEY • 3D LASER SCANNING
• CIVIL ENGINEERING
• EQUIPMENT PLANNING
• REAL ESTATE SERVICES

CONSULTANTS

REVISION NUMBER REVISION DATE REVISION DESCRIPTION



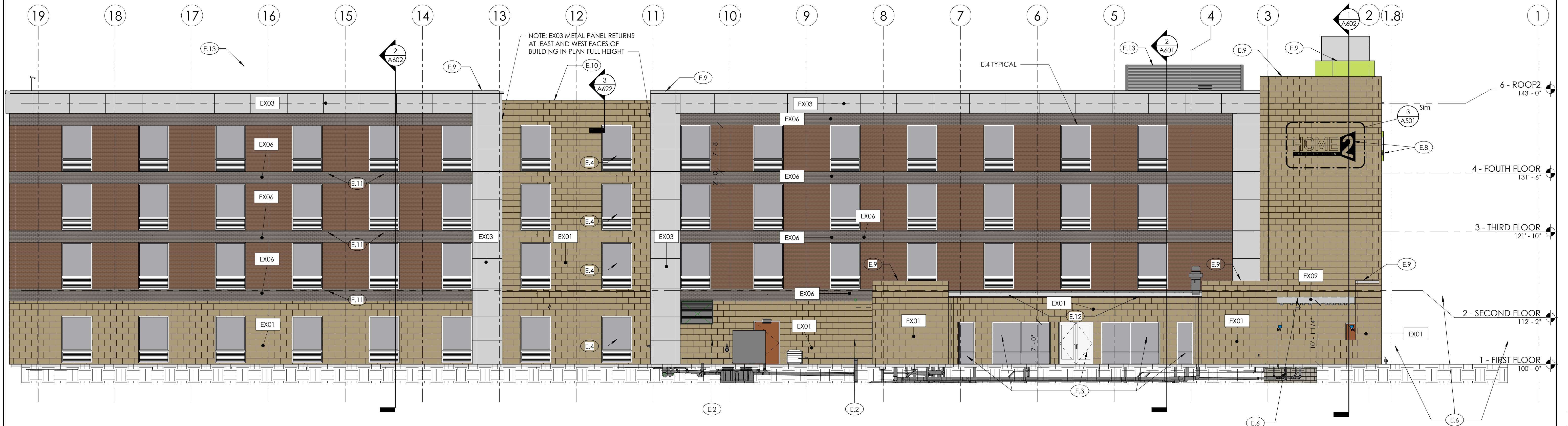
1 WEST
1/8" = 1'-0"

EXTERIOR ELEVATION KEYNOTES

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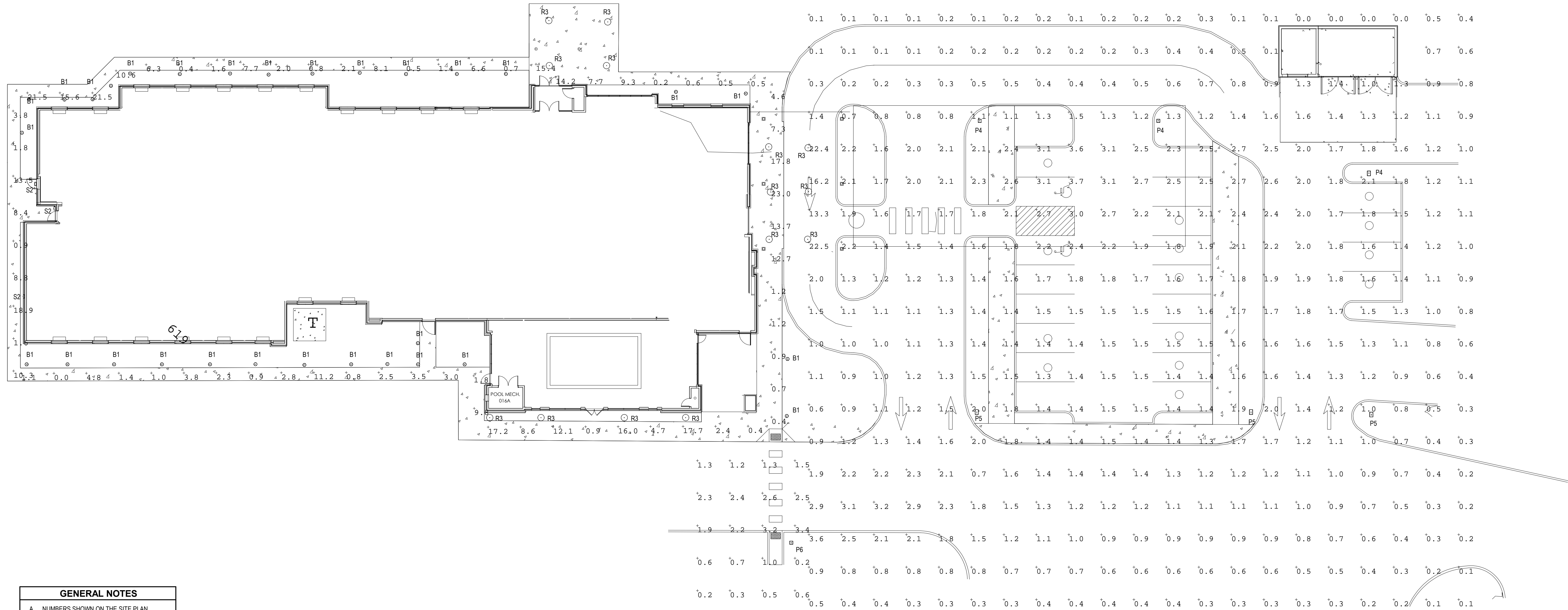
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- EX02 METAL PANEL - CUSTOM COLOR
- EX03 METAL PANEL - COLOR "PURE WHITE"
- EX04 METAL PANEL - COLOR "BLACK METALLIC"
- EX06 BRICK
- EX08 LOUVER SCREEN
- EX09 PAINTED STEEL - SHERWIN-WILLIAMS SW7019 HIGH PERFORMANCE COATING



2 SOUTH
1/8" = 1'-0"

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION
CONSULTANTS		
3939 PRIORITY WAY SOUTH DRIVE SUITE 200 INDIANAPOLIS, IN 46240 Phone (317) 844-4777 E-Mail: cripe@crpe.biz CRPE ENGINEERING SURVEY • 3D LASER SCANNING ARCHITECTURAL RENDERINGS EQUIPMENT PLANNING REAL ESTATE SERVICES		
Cripe Solutions by Design Since 1937		
EXTERIOR ELEVATIONS HOSPITALITY PROJECT SERVICES HOME2 SUITES BY HILTON 9020 CALUMET AVE. MUNSTER, IN 46321		
PRELIMINARY NOT FOR CONSTRUCTION		
Checked By	AJS	
Quality Manager	SFM	
Approver	1/8" = 1'-0"	
Sheet	A502	
Date	2020-06-01	
Project Number	0190149-10000	



GENERAL NOTES

A. NUMBERS SHOWN ON THE SITE PLAN
PHOTOMETRICS ARE IN FOOT CANDLES.

CALCULATION SUMMARY									
Footcandle	Footcandle	Footcandle	Footcandle	Footcandle	Footcandle	Footcandle	Footcandle	Footcandle	Footcandle
17.2	8.6	12.1	10.9	16.0	14.7	17.7	2.4	0.4	0.4
1.3	1.2	1.3	1.5	1.9	2.2	2.2	2.3	2.1	0.7
1.6	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.2
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9
0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8
0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7
0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6
0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1

1 SITE PHOTOMETRICS PLAN
NTS

LIGHT FIXTURE SCHEDULE

TAG	LAMP TYPE	MOUNTING	FIXTURE DESCRIPTION	PRODUCT REFERENCE	LAMPS	VOLTAGE	WATTAGE	MOUNTING HEIGHT
R3	LED	RECESSED	6" DOWNLIGHT WITH CLEAR LENS, WIDE DISTRIBUTION AND DIMMING. PROVIDE 12W BATTERY PACK WHERE INDICATED ON PLANS.	ALPHABET - NU6-RD-SW-40LM-38K-80-D60-120-10V-NC-VH-WH OR APPROVED EQUIVALENT	3200 LUMENS, 3500K, >80CRI	120V	32W	SEE ARCH. DWGS
S2	LED	SURFACE	WET LISTED LED SCONCE FIXTURE HAVING DIFFUSED LENS, INTEGRAL PHOTOCONTROL AND COLD WEATHER BATTERY PACK.	HUBBELL - SG2-50-3K7-FT-120-XX-PCU-CS-EH OR APPROVED EQUIVALENT	1800 LUMENS, 4000K, >80CRI	120V	51W	SEE ARCH. DWGS
P4	LED	POLE ON ELEVATED BASE 20' MAX HEIGHT	POLE MOUNTED LED AREA LIGHT MOUNTED ON STRAIGHT SQUARE STEEL POLE. COORDINATE BASE AND POLE HEIGHTS FOR 20' MAXIMUM FINAL HEIGHT AT TOP OF FIXTURE, TYPE 4	HUBBELL - RAR1-160L70-3K7-4W-UNV-ASQ-XX-BC OR APPROVED EQUIVALENT	22,000 LUMENS, 3000K, >80CRI	120V	154W	20'
P5	LED	POLE ON ELEVATED BASE 20' MAX HEIGHT	POLE MOUNTED LED AREA LIGHT MOUNTED ON STRAIGHT SQUARE STEEL POLE. COORDINATE BASE AND POLE HEIGHTS FOR 20' MAXIMUM FINAL HEIGHT AT TOP OF FIXTURE, TYPE 5	HUBBELL - RAR1-160L70-3K7-5QW-UNV-ASQ-XX-BC OR APPROVED EQUIVALENT	22,000 LUMENS, 3000K, >80CRI	120V	154W	20'
P6	LED	POLE ON ELEVATED BASE 20' MAX HEIGHT	POLE MOUNTED LED AREA LIGHT MOUNTED ON STRAIGHT SQUARE STEEL POLE. COORDINATE BASE AND POLE HEIGHTS FOR 20' MAXIMUM FINAL HEIGHT AT TOP OF FIXTURE, TYPE 2	HUBBELL - RAR1-160L70-3K7-2W-UNV-ASQ-XX-BC OR APPROVED EQUIVALENT	22,000 LUMENS, 3000K, >80CRI	120V	154W	20'
B1	LED	BASE MOUNTED BOLLARD	FLOOR WASH LED BOLLARD HAVING WIDE DISTRIBUTION.	ERCO - LIGHTMARK SERIES OR APPROVED EQUIVALENT	825 LUMENS 3000K	120V	7.5W	3'

REVISION NUMBER REVISION DATE REVISION DESCRIPTION

CONSULTANTS

720C WORLDWIDE ENGINEERING
7202 SHADELAND AVE
INDIANAPOLIS, INDIANA 46250
www.720c.com

3939 PRIORITY WAY SOUTH DRIVE
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EQUIPMENT PLANNING
REAL ESTATE SERVICES

Cripe
Solutions by Design Since 1937

SITE PHOTOMETRIC PLAN
GENERAL HOTELS CORPORATION
HOME2 SUITES BY HILTON
MUNSTER, IN

DESIGNED BY
TIMOTHY A. WOLFE
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE10910613

Drawn By
VVR

Checked By
CMM

Quality Reviewed By
CMM

Notes
As indicated

Scale
E110

Date
06.29.2020

Project Number
19SP1433

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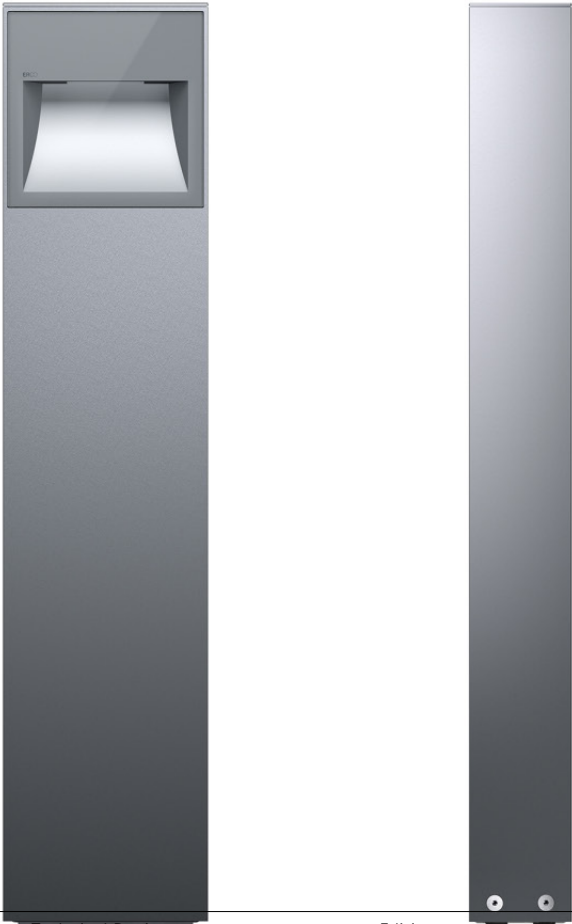
Lightmark – Precise light of minimalist elegance

The efficient bollard luminaire with good visual comfort for the illumination of pathways and open areas

Lightmark bollard luminaires focus the attention very naturally on any architectural setting. Using the wide light distribution, Lightmark illuminates pathways along walls or buildings evenly over an area wide enough to require a minimum number of luminaires. Their deep-beam version effectively lights squares or terraces.

With their low-maintenance and smooth surface, Lightmark is a robust yet elegant bollard luminaire for the outdoor area. The light

source is discreetly hidden to ensure glare-free light for passers-by. Thanks to Dark Sky technology, Lightmark bollard luminaires emit no spill light above the horizontal plane. The system design of the Lightmark range enables many different combinations of bollard and façade luminaires.



Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.



- 1 ERCO Spherolit lens**
 - Light distributions: wide beam or deep beam
- 2 ERCO LED-module**
 - High-power LED: warm white (3000K) or neutral white (4000K)
 - Collimating lens made of optical polymer
- 3 Luminaire**
 - Graphit m
 - Corrosion-resistant cast aluminium, No-Rinse surface treatment
 - Double powder-coated
 - Optimised surface for reduced accumulation of dirt
 - Non-reflective safety glass
- 4 Bollard**
 - Corrosion-resistant aluminium profile, No-Rinse surface treatment
 - Graphit m, double powder-coated
 - Tamper-proof screws
- 5 Control gear**
 - Switchable
- 6 Base plate**
 - For mounting on concrete plinth or accessories

Protection mode IP65
Dust-tight and water jet-proof

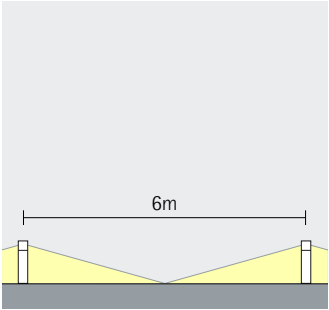
Variants on request

- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colours

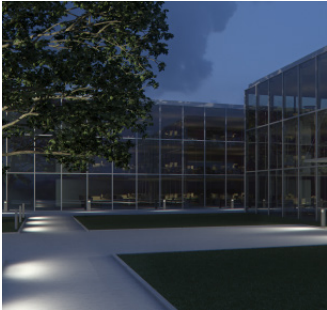
Please contact your ERCO consultant.



Design and application:
www.erco.com/lightmark









Large luminaire spacing
ERCO's efficient photometrics enable selected luminaires to be spaced particularly far apart, thereby minimising the number of luminaires required.







Different light distributions: wide or deep
The wide or deep beam distribution Spherolit lenses allow the light distribution to be matched to the lighting task at hand.

Special characteristics

-  Different light distributions: wide or deep
-  Large luminaire spacing possible

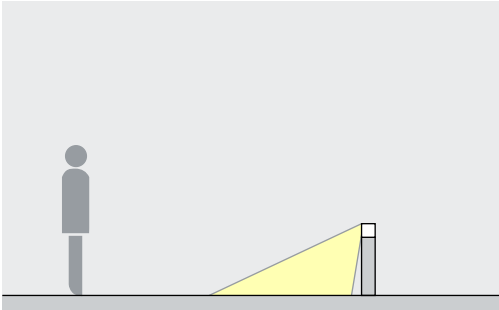
-  ERCO high-power LEDs
-  Efficient Spherolit technology
-  Dark Sky technology
-  Different light colours

-  Excellent thermal management
-  EMC-optimised
-  Protection mode IP65

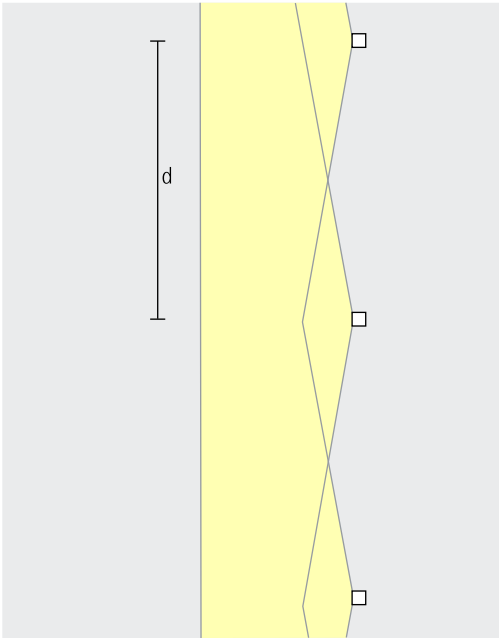
-  Switchable

Lightmark Bollard luminaires – Luminaire arrangement

Floor washlights
Wide beam, Deep beam

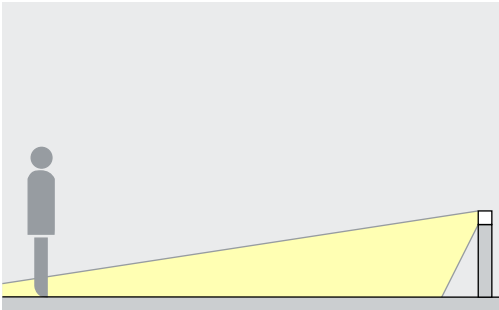


Washlighting
Lightmark bollard luminaires with wide beam light distribution directed forward provide subtle light for a glare-free and uniform illumination of pathways.

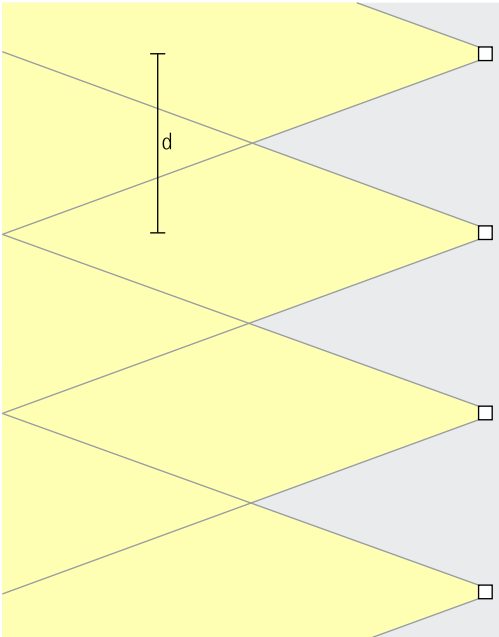


For uniform washlighting of the ground, the luminaire spacing (d) may be up to 3m. The luminaires may be spaced apart even further for visual guidance.

Arrangement: $d \leq 3\text{m}$

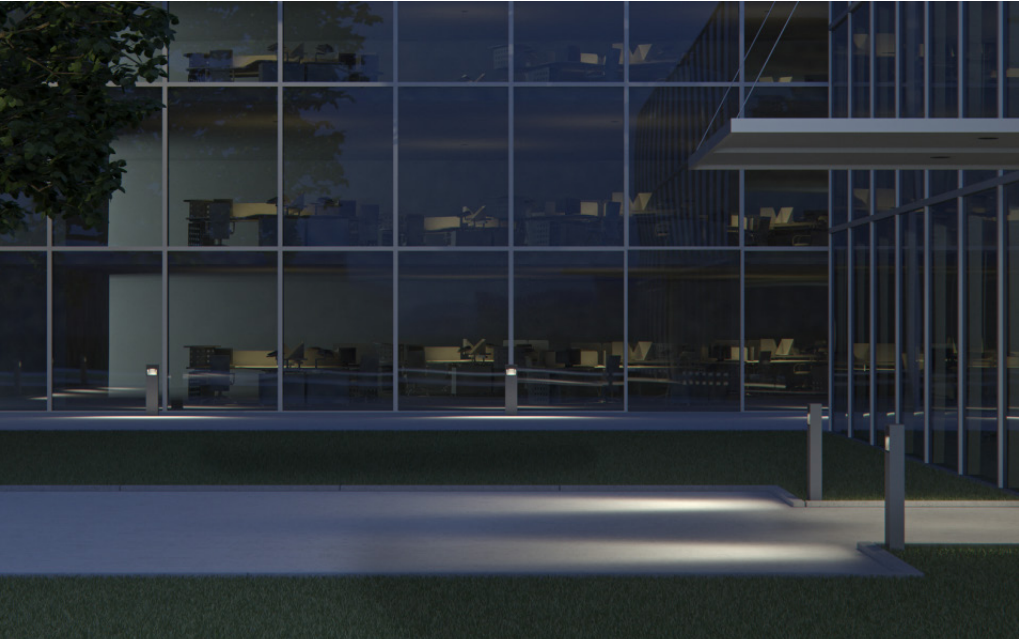


Lightmark bollard luminaires with deep beam light distribution directed forward provide subtle light for a glare-free and uniform illumination of open areas.



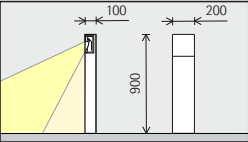
For uniform washlighting of the ground, the luminaire spacing (d) may be up to 3m. The luminaires may be spaced apart even further for visual guidance.

Arrangement: $d \leq 3\text{m}$



Lightmark Bollard luminaires

Construction size 900 mm



LED module
Maximum value
at 4000K CRI 82

6W/825lm

Light colour

	2700K CRI 92 *		3500K CRI 92 *
	3000K CRI 92		4000K CRI 82
	3000K CRI 97 *		4000K CRI 92 *

Light
distribution

	Floor washlights
	Wide beam
	Deep beam

Control

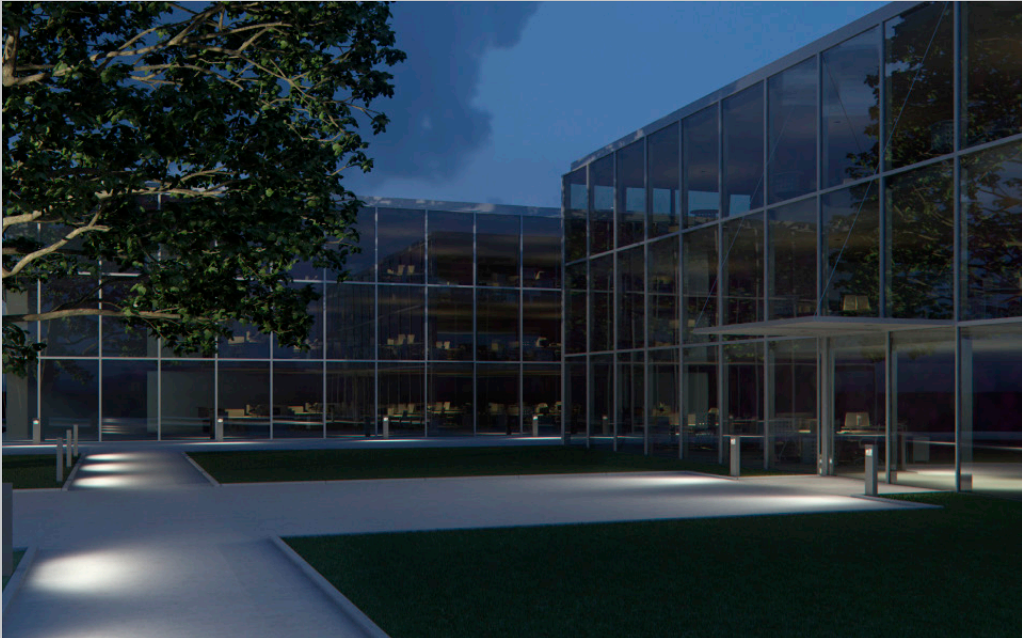
Switchable

Colour (housing)

	Graphit m
	10,000 colours *

Accessories

	Distribution box		Concrete anchor
	Anchorage unit		



* available on request

Article numbers and planning data:
www.erco.com/011960

Design and application:
www.erco.com/lightmark



RATIO Series

AREA/SITE LIGHTER

FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V dimming leads available for use with control devices (provided by others, must specify lead length)
- SiteSync™ wireless control system is available via 7-pin See ordering information and details at: www.hubbellighting.com/sitesync
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

RELATED PRODUCTS

θ [Airo](#) θ [Cimarron LED](#) θ [Ratio Family](#)



CONTROLS (CONT'D)

- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor via 7-pin

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt

WARRANTY

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

KEY DATA	
Lumen Range	3,000–48,000
Wattage Range	25–340
Efficacy Range (LPW)	118–155
Fixture Projected Life (Hours)	L70>60K
Weights lbs. (kg)	13.5–24 (6.1–10.9)

RATIO SERIES

AREA/SITE LIGHTER

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXWE-BC

CATALOG #

ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
RAR1 Ratio Area Size 1	80L-25 25W - 3,000 Lumens	3K7 3000K, 70 CRI	2 IES TYPE II	Blank for no rotation	UNV Universal 120-277V
	80L-39 39W - 5,200 Lumens	4K7 4000K, 70 CRI	3 IES TYPE III	L Optic rotation left	120 120V
	80L-50 50W - 6,000 Lumens	5K7 5000K, 70 CRI	4W IES TYPE IV	R Optic rotation right	208 208V
	160L-70 70W - 9,000 Lumens		5QW IES TYPE V		240 240V
	160L-100 100W - 12,000 Lumens				277 277V
	160L-115 115W - 15,000 Lumens				347 347V
	160L-135 135W - 18,000 Lumens				480 480V
RAR2 Ratio Area Size 2	320L-110 110W - 15,000 Lumens				
	320L-140 140W - 18,000 Lumens				
	320L-165 165W - 21,000 Lumens				
	480L-185 185W - 24,000 Lumens				
	480L-210 210W - 27,000 Lumens				
	480L-240 240W - 30,000 Lumens				
	480L-255 255W - 36,000 Lumens				
	480L-295 295W - 42,000 Lumens				
	480L-340 340W - 48,000 Lumens				

Mounting	Color	Control Options Network	Options
ASQ Arm mount for square pole/flat surface	BLT Black Matte Textured	NXWE NX Wireless Enabled (module + radio)	BC Backlight control
ASQU Universal arm mount for square pole/flat surface	BLS Black Gloss Smooth	NXSPW_F NX Wireless, PIR Occ. Sensor, Daylight Harvesting ²	CD Continuous dimming
Mounting Round Poles		NXSP_F NX, PIR Occ. Sensor, Daylight Harvesting ²	F Fusing (must specify voltage)
A_ Arm mount for round pole ¹	DBT Dark Bronze Matte Textured	Control Options Other	TB Terminal block
A_U Universal arm mount for round pole ¹	DBS Dark Brone Gloss Smooth		2PF 2 power feed with 2 drivers ³
Mounting Other		SCP-40F Programmable occupancy sensor ⁴	
WB Wall bracket	GTT Graphite Matte Textured	7PR 7-Pin twist lock receptacle	
MAF Mast arm fitter for 2-3/8" OD horizontal arm	LGS Light Grey Gloss Smooth	7PR-SC 7-Pin receptacle with shorting cap	
K Knuckle	PSS Platinum Silver Smooth	7PR-MD40F Low voltage sensor for 7PR	
	WHT White Matte Textured	7PR-TL 7-Pin PCR with photocontrol	
	WHS White Gloss Smooth		
	VGT Verde Green Textured		
	Color Option		
	CC Custom Color		

Notes:

- 1 Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Replace "_" with "14" for up to 14' mounting height, "30F" for 15-30' mounting height
- 3 Not available with 25, 50, 255, 295 & 340W configurations
- 4 At least one SCPREMOTE required to program SCP motion sensor

STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

RATIO SERIES

AREA/SITE LIGHTER

OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> RARBC80L	Ratio blacklight control 80L
<input type="checkbox"/> RARBC160L	Ratio blacklight control 160L
<input type="checkbox"/> RARBC320L	Ratio blacklight control 320L
<input type="checkbox"/> RARBC480L	Ratio blacklight control 480L

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface ²
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles ^{1,2}
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter ^{1,2}
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter ²
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately ²
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle ²

- 1 Replace "-" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
2 Replace "XX" with desired color/paint finish

CONTROLS

Control Options

Standalone

SW7PR	SiteSync™ on fixture module via 7PR
SWUSB	SiteSync™ Software on USB
SWTAB	SiteSync™ Windows Tablet
SWBRG	SiteSync™ Wireless Bridge Node
SWFC	SiteSync™ Field Commission Serve
SCPREMOTE	Order at least one per project location to program and control

Networked – Wireless

WIR-RME-L	wiSCAPE External Fixture Module ^{1,2}
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NX Networked – Wireless

NXOFM-1R1D-UNV	NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock
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Notes:

- 1 Works with external networked photosensor
2 wiSCAPE Gateway required for system programming

RATIO SERIES

AREA/SITE LIGHTER

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2
RAR2 Performance Data on next page																		

* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

RATIO SERIES

AREA/SITE LIGHTER

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

RATIO SERIES

AREA/SITE LIGHTER

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ELECTRICAL DATA

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
	135	120	1.11	133.3
		208	0.64	
		240	0.56	
		277	0.48	
		347	0.38	
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
		277	0.55	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
		277	0.63	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
		480	0.54	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
	340	120	2.89	347.1
		208	1.67	
		240	1.45	
		277	1.25	
		347	1.00	
		480	0.72	

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

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

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PROJECTED LUMEN MAINTENANCE

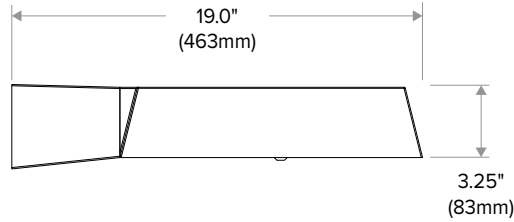
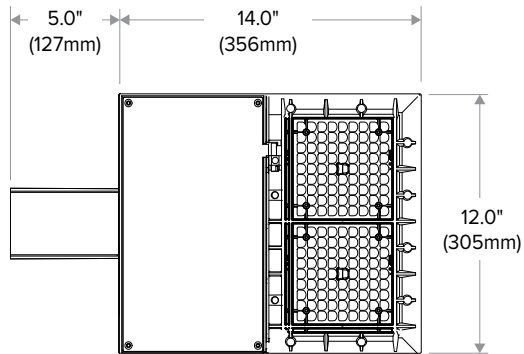
Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

RATIO SERIES

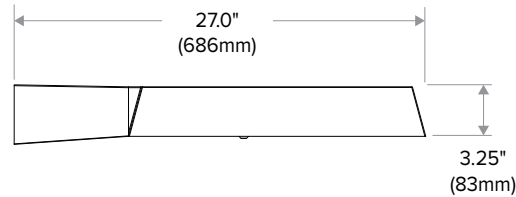
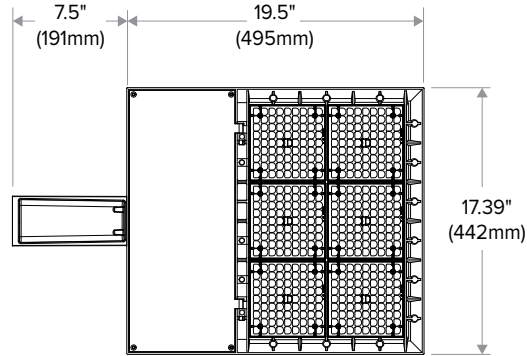
AREA/SITE LIGHTER

DIMENSIONS

RAR1

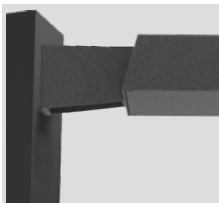


RAR2



ADDITIONAL INFORMATION

MOUNTING



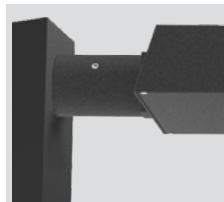
Arm Mount – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor B3 drill pattern.



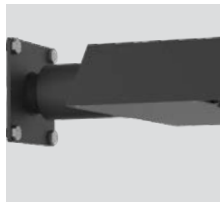
Knuckle – Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



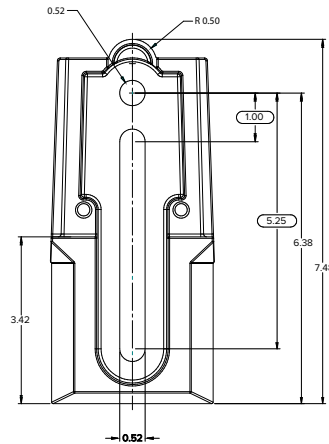
Universal Mounting – Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5"



MAF – Fits 2-3/8" OD arms Roadway applications.



Wall Mount – Wall mount bracket designed for building mount applications.



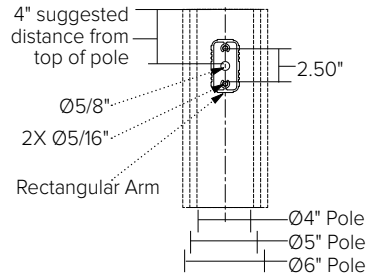
RATIO SERIES

AREA/SITE LIGHTER

ADDITIONAL INFORMATION (CONT'D)

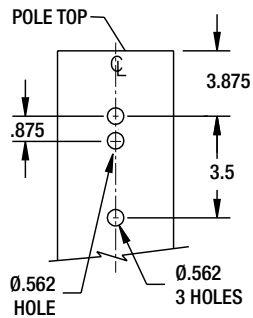
ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



SITESYNC 7-PIN MODULE



SW7PR



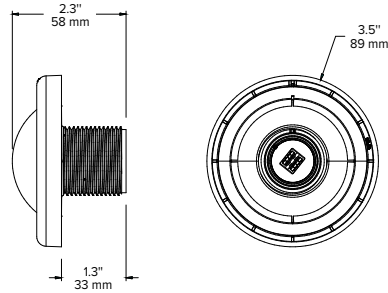
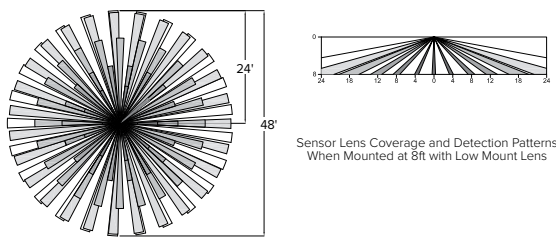
- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)

RATIO SERIES

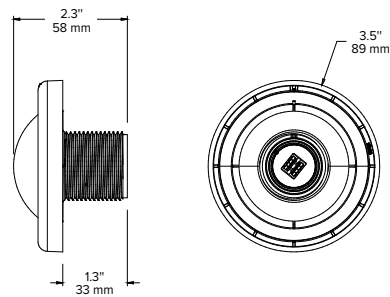
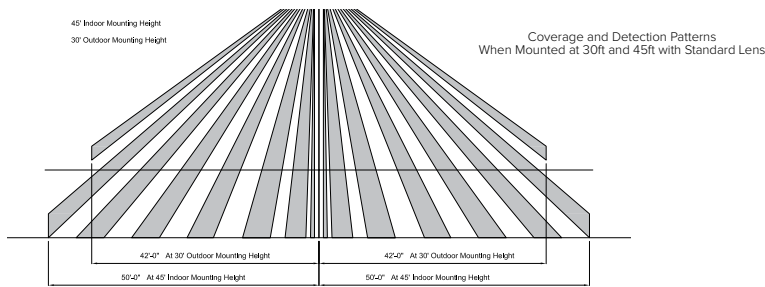
AREA/SITE LIGHTER

ADDITIONAL INFORMATION (CONT'D)

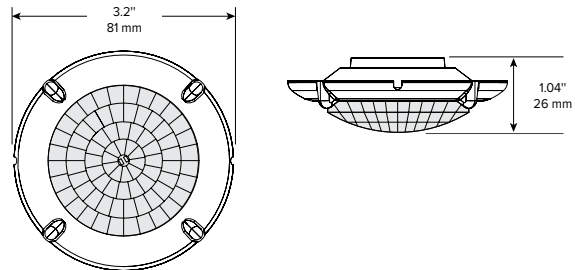
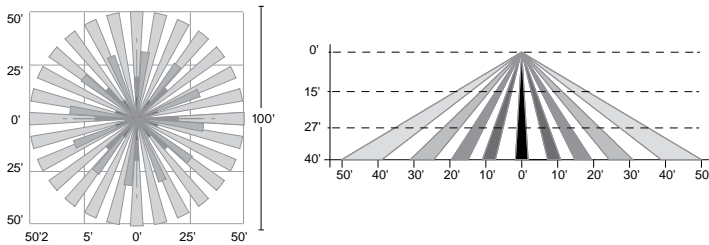
NXSP-14F



NXSP-30F



SCP-40F



RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. ² .13m ²	.56ft. ² .17m ²

RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. ² .17m ²	1.48ft. ² .45m ²

SHIPPING

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

USE OF TRADEMARKS AND TRADE NAMES

All product and company names, logos and product identifies are trademarks ™ or registered trademarks ® of Hubbell Lighting, Inc. or their respective owners. Use of them does not necessarily imply any affiliation with or endorsement by such respective owners.

Submitted by ESL-Spectrum

ESL / SPECTRUM

LIGHTING / CONTROLS / DESIGN

Job Name:

Hilton - Home 2 Home
Engineer: TRC Engineering (Springfield)

Catalog Number:

NU6-RD-SW-40LM-35K-80-D60-120-10V-NC-XX-XX

Notes:

Type:

R-3

INDY20-80667

ALPHABET

LEDRA brands

Alphabet by Ledra Brands, Inc.

15774 Gateway Circle
Tustin, CA 92780

PH: 714.259.9959
FAX: 714.259.9969

AlphabetLighting.com

JOB NAME

CONTACT

ORDERING CODE

ECO

NU6"

Round Downlight

COB

LUTRON
OSM
ADVANTAGE
ACCOUNT

eldoLED[®]
your product | our drive



DESCRIPTION

The EcoNU6RD is an economical and highly efficient spec grade 6" recessed downlight with thoughtful construction and pleasing aesthetics. Standard with premium dimming using EldoLED 1% flicker free drivers in 120V, 277V, and step down transformer for 347V. A minimalistic look is achieved with an ultrathin 1/16" trim that is only 5/16" wide. Color choices of both trim and bezel are offered for a customized look. Several beam angles available, plus an optional high-efficiency BrightView diffused lens for smooth light distribution and obscured LED image.

HOUSING

Electrocoated 16-gauge cold-rolled steel provides enhanced structural reinforcement and rust prevention. Superior, UL-certified, injection-molded commercial-grade Lexan™ (PC) is used for the frame and regressed bezel trim. Lexan provides unmatched durability and impact resistance, and is tested for UV resistance and water exposure in outdoor applications. The thermally-advanced, anodized heat sink uses 6063 aluminum alloy. Wet location rated is offered standard. A 90-minute constant-power IOTA emergency battery backup is available.

MOUNTING

An advanced mounting system allows for quick and secure installation with LED and driver serviceability from below the ceiling. The LED assembly uses die-cast aluminum mounting clamp grips (MCG) that swing out to tighten onto variable ceiling thicknesses. Integrated rubber feet on each MCG provide a non-slip vibration-resistant installation. The hidden MCG system is accessible from below ceiling by removing the snap-in lens/bezel assembly with either the included suction cup or a screwdriver blade. Integrated bar hangers feature integral toothed nails, T-bar mounting slots with locking holes, tabs for joist positioning. Retrofit mounting option allows for installation from below ceiling by use of compact driver box. No risk damaging LED or bezel assembly during installation, these are installed during last steps. Fixture and driver are easily removed for servicing after install without damaging drywall.

MOUNTING DIMENSIONS

CEILING THICKNESS

CEILING CUTOUT

Trim

1/8" to 2"

6-3/8" diameter

New Construction
Bar Hangers (included)

Mounting Length:
14-3/4" to 26"

Extension Kit p/n: K20266
(ordered separately,
1 per fixture)

Extends a pair of Bar Hangers
Total Mounting Length:
29" to 48"

LISTINGS

- ETLus Listed to UL1598, cETL Listed to CSA C22.2 #250.0

- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens

- Non-conductive, Lexan dead-front construction

- Made in the USA – meets the requirements of the Buy American provision within the ARRA

RATINGS / CERTIFICATIONS

NC

RET

IC

ICAT

CP

Type non-IC

✓

✓

Type IC

✓

✓

✓

Chicago Plenum (CCEA)

✓

Suitable for air handling plenums

✓

✓

Reduced airflow (with lens) ASTM E283

✓

✓

✓

✓

✓

LED INFO

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 49,500 hrs

- 80 CRI: SDCM = 3-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 49,500 hrs

ORDERING CODE

SERIES

NU6

TYPE

RD

round downlight

LED

SW

static white

DELIVERED LUMENS
(3000K 80CRI HE60)

07LM

660 lm

10LM

880 lm

13LM

1080 lm

15LM

1200 lm

20LM

1660 lm

30LM

2500 lm

40LM

3180 lm

50LM

4225 lm

Calculated Delivered Lumens =
[Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]

CCT

22K

2200K

27K

2700K

30K

3000K

35K

3500K

40K

4000K

50K

5000K

CCT

80+ 90+ 80+ 90+ 80+ 90+ 80+ 90+ 80+ 90+

CRI

80+ 90+ 80+ 90+ 80+ 90+ 80+ 90+ 80+ 90+

CCT MULTIPLIER FOR LUMEN OUTPUT

0.85 N/A 0.96 0.81 1.00 0.84 1.01 0.85 1.03 0.87 1.04 N/A

CR

80

80CRI

90

90CRI

REFLECTOR & LM MULTIPLIER

HE40

40" high efficiency diffused lens (0.99)

HE60

60" high efficiency diffused lens (1.00)

HE70

70" high efficiency diffused lens (0.96)

SS30

30" semi-specular with clear lens (0.89)

SS40

40" semi-specular with clear lens (0.90)

SS60

60" semi-specular with clear lens (0.92)

D60

60" diffused with clear lens (0.90)

WH70

70" brilliant white with clear lens (0.99)

NO LENS OPTION

NL³

no lens

VOLTAGE

120

120V

277

277V

ADVISE

See Electrical Options for 347V.

DIMMING

10V⁶

flicker free 0-10V dimming to 5%

DIM10⁴

standard driver with flicker free 0-10V dimming to 1%

DIM10Z⁴

flicker free 0-10V dimming to 0%

DALI⁴

flicker free DALI dimming to 1%

DALIZ⁴

flicker free DALI dimming to 0%

DMXZ

flicker free DMX dimming to 0%

LTE⁷

Lutron Hi-lume 2-Wire (Triac) dimming to 1%

LUT⁷

Lutron Hi-lume EcoSystem dimming to 1%, Soft-on & Fade-to-Black

LUTP⁸

Lutron Hi-lume Premier EcoSystem dimming to 0.1%, Soft-on & Fade-to-Black

ELV⁵

leading & trailing edge (Triac/ELV) dimming to <10%

ELV1⁵

leading & trailing edge (Triac/ELV) dimming to 1%

MOUNTING OPTIONS

NC

new construction with ceiling fitting plate

IC²

insulation contact housing

ICAT²

insulation contact / airtight housing

CP²

chicago plenum housing

RET

retrofit, no ceiling fitting plate

TRIM COLOR

WH

white

MC

matte chrome

BK

black

BZ

bronze

WT

wheat

BEZEL COLOR

WH

white

MC

matte chrome

BK

black

BZ

bronze

WT

wheat

ELECTRICAL OPTIONS

EM7⁴

emergency battery backup, 90 minutes at 7 watts to LED

EM12⁵

emergency battery backup, 90 minutes at 12 watts to LED

FOR 347V OPTION

order separate "347V to 277V" step down transformer p/n: P70489

ORDERING CODE

Follow the steps to specify your fixture, example:

NU6 - RD - SW - 30LM - 35K - 90 - HE40 - 120 - DIM10 - NC - WH - WH - EM7

SW (LED)

POWER

DELIVERED LM

W (80/90 CRI)

660

8

880

9

1080

11

1200

14

1660

17

2500

27

3180

32

4225

43

Power Factor ≥ 0.9

NOTES

1 90 CRI not available in 2200K or 5000K.

2 IC/ICAT/CP not available in 50LM

3 "No lens" option available for SS30, SS40, SS60, D40, D60, or WH70 and is damp location rated.

4 Driver uses logarithmic dimming curve as standard. For linear dimming curve add "LIN" after dimming code, i.e. DIM10LIN.

5 Triac/ELV dimming available in 120V only. Not available in 50LM.

6 For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.

7 LUT/UT not available in 50LM.

8 LUTP not available in 30LM, 40LM, or 50LM.

9 10V dimming only available in 15LM and 20LM.

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

v.10.31.19 | EcoNU6RD | Page 1 of 2

SLING Series

SLENDER WALLPACK

tradeSELECT®

FEATURES

- Two sizes for a variety of applications
- Ranges from 21W to 80W with up to 8000 lumens
- SG1 Series replaces from 100W-150W HID; SG2 Series replaces from 150W-250W HID
- Comfort lens available as an option or accessory provides glare control and enhanced uniformity
- Knuckle and trunnion accessory mounting kits available for flood applications
- IP65 and certified to UL 1598 for use in wet locations up to 40°C ambient
- DLC (DesignLights Consortium Qualified - see www.designlights.org)



*3000K and warmer CCTs only



RELATED PRODUCTS

- [LNC Litepak](#) [LNC2 Litepak](#) [LNC3 Litepak](#)
[LNC4 Litepak](#) [GeoPak](#) [GeoPak2](#)

SPECIFICATIONS

HOUSING

- Rugged die-cast aluminum housing with corrosion resistant powder coat finish
- Heating dissipating fins provide superior thermal performance extending the life of the electronic components
- Impact resistant tempered glass offers zero uplight
- Comfort lens available as an option or accessory to reduce glare (7-10% lumen reduction) and provide better uniformity

OPTICS

- 3000K, 4000K and 5000K CCT nominal with 70 CRI
- Smaller SG1 housing has 2 LEDs, larger SG2 housing has 3 LEDs

INSTALLATION

- Side hinge allows for easy installation and wiring
- Side movement avoids damage to the lens and helps prevent injury common in drop down hinge designs
- Mounts to 4" junction box and includes a gasket to help seal electrical connections
- Four 1/2" threaded conduits hubs for surface conduit provided

ELECTRICAL

- 120-277V, 50/60Hz electronic drivers
- 347V and 480V available in large SG2 housing
- 10KA surge protection included

OPTIONS/CONTROLS

- Button photocontrol for dusk to dawn energy savings. Stock versions include 120V-277V PC with a cover which provides a choice to engage photocontrol or not. PC is installed in top hub
- Occupancy sensor available for on/off and dimming control in larger SG2 housing
- SiteSync™ wireless lighting control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution. See ordering information or visit www.hubbelllighting.com/sitesync for more details
- Battery backup options available in larger SG2 housing rated for either 0° C or -30° C. Performance exceeds NEC requirement providing 1 fc minimum over 10'x10' at 11' mounting height

CERTIFICATIONS

- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 for use in wet location, listed for -40°C to 40°C applications
- IDA approved with zero uplight for 3000K and warmer CCTs
- IP65

WARRANTY

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

KEY DATA	
Lumen Range	2263-8079
Wattage Range	21-80
Efficacy Range (LPW)	101-113
Fixture Projected Life (Hours)	L70>50K
Weights lbs. (kg)	4.3-11 (2.0-5.0)

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

SLING SERIES

SLENDER WALLPACK

ORDERING GUIDE

Example: SG1-20-3K7-FT-UNV-DBT-PCU-CS

CATALOG #

ORDERING INFORMATION

Housing	CCT/CRI	Distribution	Voltage	Color/Finish	Control Options	Options
SG1-10 Size 1, 10W	3K7 3000K, 70 CRI	FT Fwd Throw	UNV 120V-277V	BLT Black Matte Textured	PCU Universal Button Photocontrol (120-277V)	CS Comfort Lens
SG1-20 Size 1, 20W			120 120V	BLS Black Gloss Smooth	SCP ^{1,2,3} Occupancy Sensor Programmable (Dim)	E ^{1,2} Battery 0°C
SG1-30 Size 1, 30W	4K7 4000K, 70 CRI		277 277V	DBT Dark Bronze Matte Textured	SWP ^{1,2} SiteSync Pre-commission	EH ^{1,2} Battery w/ heater -20°
SG1-40 Size 1, 40W	5K7 5000K, 70 CRI		UHV 347V-480V	DBS Dark Brone Gloss Smooth	SWPM ^{1,2} SiteSync Pre-commission w/ Sensor	
SG2-50 Size 2, 50W				GTT Graphite Matte Textured	Specify MTG HT for SCO/SCP & SWPM	
SG2-80 Size 2, 80W				LGS Light Grey Gloss Smooth	8F Up to 8'	
				PSS Platinum Silver Smooth	20F Up to 20'	
				WHT White Matte Textured		
				WHS White Gloss Smooth		
				VGT Verde Green Textured		
				Color Option		
				CC Custom Color		

Notes:

- Available in SG2 only, UHV available in SG2-50 only
- Sensor controls & battery backup can not be used with flood accessory or kit or for inverted/up mounting, 120-227V only for SCO/SCP, 120 or 277 only for SWP, SWPM, E & EH
- Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only

STOCK ORDERING INFORMATION

Catalog Number	CCT/CRI	Wattage	Mounting Height	Color	Color	Delivered Lumens	LPW	Weight lbs. (kg)
SG1-10-PCU	5000K/70	11W	8-12ft	120-277V	Dark Bronze	1349	122	4.3 (2.0)
SG1-10-4K-PCU	4000K/70	11W	8-12ft	120-277V	Dark Bronze	1424	129	4.3 (2.0)
SG1-20-PCU	5000K/70	21W	8-12ft	120-277V	Dark Bronze	2263	108	4.3 (2.0)
SG1-20-4K-PCU	4000K/70	21W	8-12ft	120-277V	Dark Bronze	2310	110	4.3 (2.0)
SG1-30-PCU	5000K/70	29W	10-15ft	120-277V	Dark Bronze	3270	113	4.3 (2.0)
SG1-30-4K-PCU	4000K/70	29W	10-15ft	120-277V	Dark Bronze	3060	105	4.3 (2.0)
SG1-40-PCU	5000K/70	38W	10-15ft	120-277V	Dark Bronze	4008	105	4.3 (2.0)
SG1-40-4K-PCU	4000K/70	38W	10-15ft	120-277V	Dark Bronze	4070	106	4.3 (2.0)
SG2-50-PCU	5000K/70	51W	12-18ft	120-277V	Dark Bronze	5548	110	11 (5.0)
SG2-50-4K-PCU	4000K/70	51W	12-18ft	120-277V	Dark Bronze	5526	109	11 (5.0)
SG2-80-PCU	5000K/70	80W	15-25ft	120-277V	Dark Bronze	8061	101	11 (5.0)
SG2-80-4K-PCU	4000K/70	80W	15-25ft	120-277V	Dark Bronze	8079	101	11 (5.0)

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

SLING SERIES

SLENDER WALLPACK

ORDERING GUIDE

OPTIONS AND ACCESSORIES

	Catalog Number	Description	Weight lbs. (kg)
<input type="checkbox"/>	SG1-CS	Acrylic comfort lens for SG1	1 (.45)
<input type="checkbox"/>	SG2-CS	Acrylic comfort lens for SG2	1 (.45)
<input type="checkbox"/>	SG1-YOKE	SG1 Series Yoke/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SG1-KNUCKLE	SG1 Series Knuckle/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SG2-YOKE	SG2 Series Yoke/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SG2-KNUCKLE	SG2 Series Knuckle/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SCP-REMOTE*	Remote control for SCP option. Order at least one per project to program and control fixtures	1 (.45)
<input type="checkbox"/>	SG2-PMA-3-XX	3" Pole Mount adapter for SG2, both square and round, XX= finish	7 (3.5)
<input type="checkbox"/>	SG2-PMA-4-XX	4" Pole Mount adapter for SG2, both square and round, XX= finish	7 (3.5)
<input type="checkbox"/>	SG2-PMA-5-XX	5" Pole Mount adapter for SG2, both square and round, XX= finish	7 (3.5)
<input type="checkbox"/>	SG2-PMA-6-XX	6" Pole Mount adapter for SG2, both square and round, XX= finish	7 (3.5)
<input type="checkbox"/>	SG1-SPC	Vandal Resistant Lens (shield polycarbonate), SG1	3 (1.5)
<input type="checkbox"/>	SG2-SPC	Vandal Resistant Lens (shield polycarbonate), SG2	3 (1.5)
<input type="checkbox"/>	SG1-WCP	Universal Wall Cover Plate, Dark Bronze, SG1	10 (5)
<input type="checkbox"/>	SG2-WCP-H	Horizontal Mount Wall Cover Plate, Dark Bronze, SG2	10 (5)
<input type="checkbox"/>	SG2-WCP-V	Vertical Mount Wall Cover Plate, Dark Bronze, SG2	10 (5)
<input type="checkbox"/>	SG2XL-WCP-H	Horizontal Mount Wall Cover Plate, DB, SG2 with battery or sensor	10 (5)
<input type="checkbox"/>	SG2XL-WCP-V	Vertical Mount Wall Cover Plate, DB, SG2 with battery or sensor	10 (5)

ACCESSORIES AND SERVICES (ORDERED SEPARATELY)

Control Options	
SWUSB ¹	SiteSync™ interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync™ license, software and USB radio bridge node.
SWTAB ¹	Windows tablet and SiteSync™ interface software. Includes tablet with preloaded software, SiteSync™ license and USB radio bridge node.
SWBRG ²	SiteSync™ USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.

Notes:

- When ordering SiteSync™ at least one of these two interface options must be ordered per project.
- If needed, an additional Bridge Node can be ordered.

SLING SERIES

SLENDER WALLPACK

PERFORMANCE DATA

Description	# of LEDs	Drive Current	System Watts	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
SG1-10	2	140mA	11	1349	122	1	0	0	1424	129	1	0	0	1003	91	1	0	0
SG1-20	2	250mA	21	2449	115	1	0	0	2310	110	1	0	0	2054	95	1	0	0
SG1-30	2	350mA	29	3332	117	2	0	0	3060	106	1	0	0	2913	100	1	0	0
SG-40	2	450mA	38	4008	105	2	0	0	4070	106	2	0	0	3845	100	2	0	0
SG2-50-UHV	3	350mA	44	4633	106	2	0	0	4609	105	2	0	0	3895	90	2	0	0
SG2-50	3	415mA	51	5548	109	2	0	0	5526	107	2	0	0	4700	92	2	0	0
SG2-80	3	650mA	80	7851	98	2	0	1	8079	103	2	0	1	6721	86	2	0	1

*347 and 480 VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment application and inherent performance balances of the electrical components.

ELECTRICAL DATA

Catalog number	# of Drivers	Input Voltage	Current (AMPS)	System Power
SG1-10	1	120	0.09	11.0
	1	277	0.04	11.0
SG1-20	1	120	0.18	21.0
	1	277	0.08	21.0
SG1-30	1	120	0.24	28.9
	1	277	0.10	28.9
SG2-40	1	120	0.32	38.3
	1	277	0.14	38.3
SG-50-UHV	1	347	0.13	43.5
	1	480	0.18	43.5
SG2-50	1	120	0.42	50.6
	1	277	0.18	50.6
SG2-80	1	120	0.68	79.8
	1	277	0.29	79.8

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11' L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.98	0.97	0.96	0.95	>791,000
40°C / 104°F	0.99	0.98	0.96	0.96	0.94	>635,000

1. Projected per IESNA TM-21-11 * (Nichia 219B, 700mA, 85°C Ts, 10,000hrs) Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08

SLING SERIES

SLENDER WALLPACK

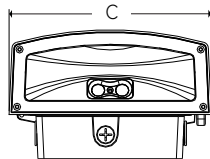
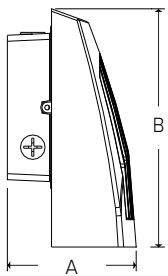
LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99
50° C	122° F	0.96

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

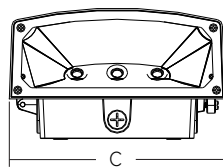
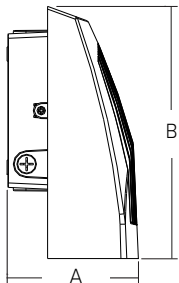
DIMENSIONS

SG1



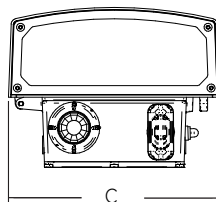
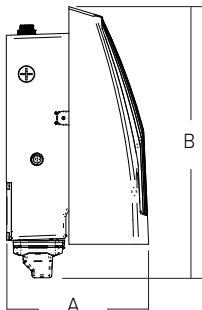
A	B	C	Weight
4.19" (107mm)	7.80" (198mm)	6.61" (168mm)	4.4lbs (2kg)

SG2



A	B	C	Weight
5.80" (147mm)	11.14" (283mm)	9.52" (242mm)	11lbs (5kg)

SG2 with occupancy sensor and battery options



A	B	C	Weight
7.26" (184mm)	13.84" (352mm)	9.52" (242mm)	11lbs (5kg)

SLING SERIES

SLENDER WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PHOTOMETRY

SG1-10-4K7

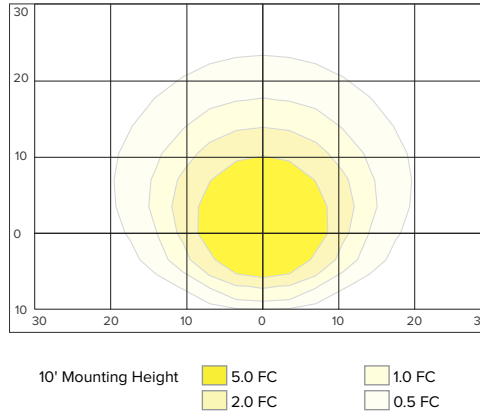
LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	1424
Watts	11.4
Efficacy	125
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	996.6	70.0
Downward House Side	427.8	30.0
Downward Total	1424.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1424.4	100.0

ISOMETRIC FOOTCANDLE



SG1-20-4K7

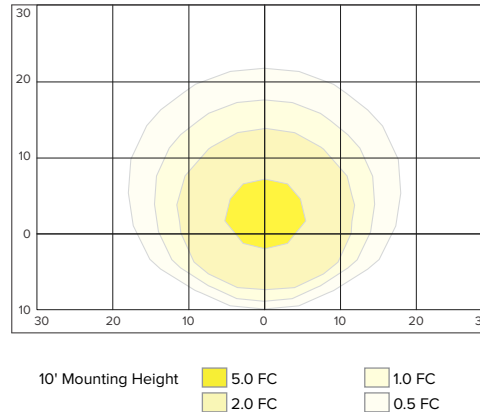
LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	2310
Watts	20.9
Efficacy	111
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1618	70.0
Downward House Side	692.1	30
Downward Total	2310	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2310.3	100.0

ISOMETRIC FOOTCANDLE



SG1-30

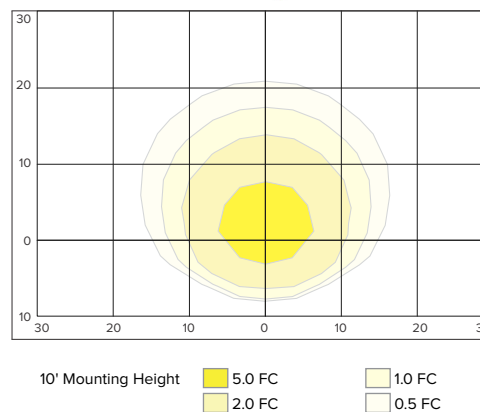
LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	3060
Watts	29.1
Efficacy	105
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2619.4	70.9
Downward House Side	890.4	29.1
Downward Total	3059.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3059.8	100.0

ISOMETRIC FOOTCANDLE



SLING SERIES

SLENDER WALLPACK

PHOTOMETRY

SG1-40-4K7

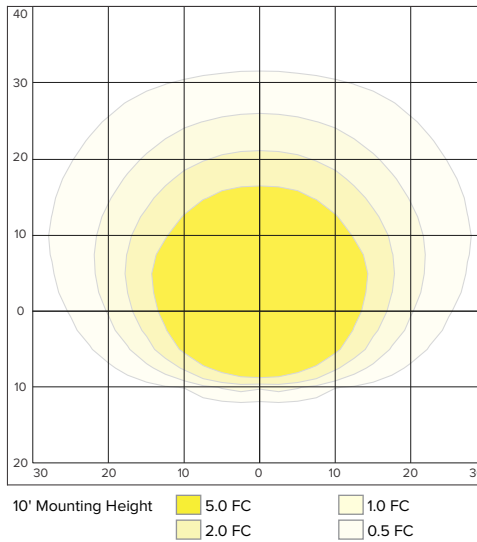
LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	4070
Watts	38.1
Efficacy	107
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2857.7	70.2
Downward House Side	1215.5	29.8
Downward Total	4070.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4070.2	100.0

ISOMETRIC FOOTCANDLE



SG2-50-4K7

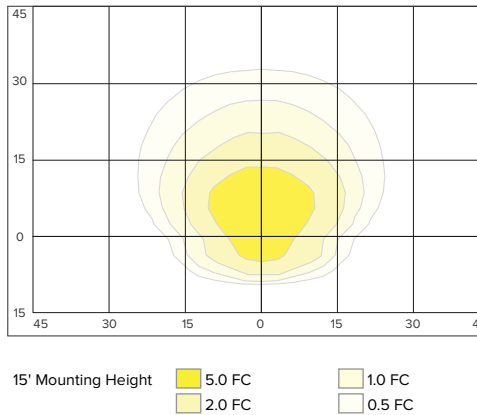
LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	5525.7
Watts	51.7
Efficacy	107
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4611.8	83.5
Downward House Side	913.9	16.5
Downward Total	5525.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5525.7	100.0

ISOMETRIC FOOTCANDLE



SG2-80-4K7

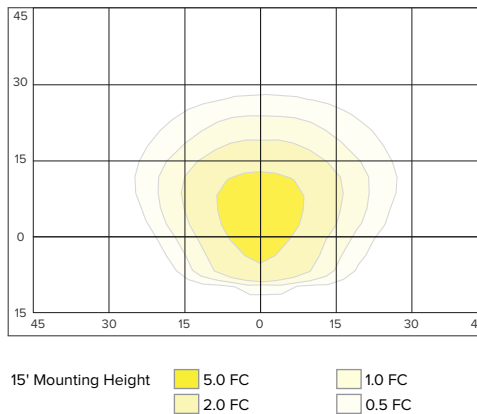
LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	8453
Watts	78.5
Efficacy	108
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6677.7	79.0
Downward House Side	1775.5	21.0
Downward Total	8453.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8453.2	100.0

ISOMETRIC FOOTCANDLE



SLING SERIES





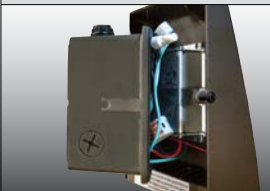
SLENDER WALLPACK

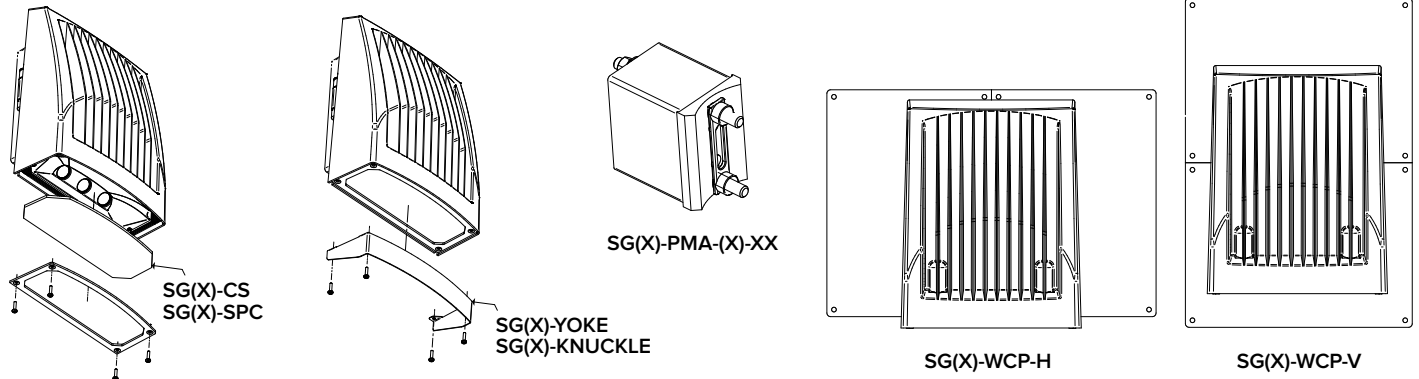
ADDITIONAL INFORMATION

Shipping Information



Catalog Number	G.W(kg)/ CTN	Carton Dimensions			Carton Qty. per Master Pack	Pallet Qty.
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)		
SG1	4.35lbs (2kg)	9.5 (24)	8.25 (21)	5.25 (13)	6	98
SG2	11lbs (5kg)	14 (36)	11.5 (29)	8 (20)	2	64

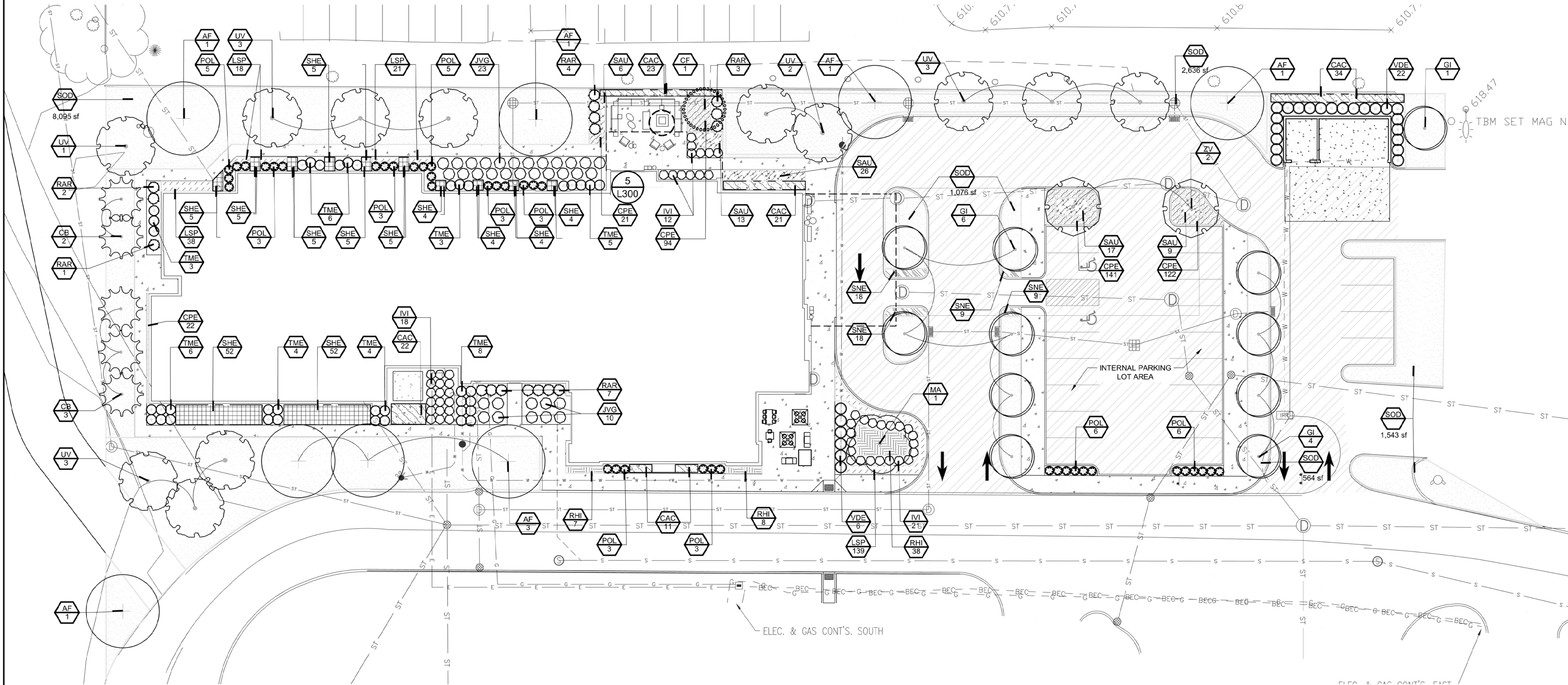
Accessories and Services

Comfort Lens  <p>Acrylic comfort lens provides glare control, improved visual comfort and better uniformity</p>	Visor  <p>Visor accessory included with mounting accessory kits</p>	Mounting Options  <p>Flood mounting accessories - 1/2" threaded knuckle or yoke (includes grommet and 3' SO cord)</p>	Photocontrol  <p>Photocontrol option available for energy-saving dusk-to-dawn operation</p>	Hinged Housing Door  <p>Side hinged for easy installation and wiring access, single screw secures housing closure</p>
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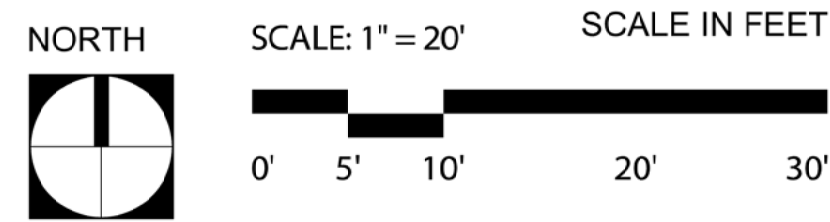
Features

Emergency Mode (EH)  <p>Battery back up feature with side indicator.</p> <p>Exceeds Life Safety Code average illuminance of 1.0 fc. at 12' mounting height. Assumes open space with no obstructions. Battery backup units consume 6W when charging a dead battery and 2W during maintenance charging. EH (units with a heater) consume up to an additional 8W when charging if the battery temp is lower than 10°C</p> <p>Diagrams for illustration purposes only, please consult factory for application layout.</p>	Wireless and Occupancy Controls  <p>SiteSync™ Lighting Control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution.</p>
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PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT
AF	8	ACER FREEMANII 'ARMSTRONG'	FREEMAN MAPLE	B&B, 2.5" CAL.
CB	5	CARPINUS BETULUS 'FASTIGIATA' BRANCHING TO BEGIN 3' FROM GROUND	PYRAMIDAL EUROPEAN HORNBEAN	B&B, 2.5" CAL.
CF	1	CORNUS FLORIDA	EASTERN DOGWOOD	B&B, 2" CAL.
GI	11	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS COMMON HONEYLOCUST	B&B, 2" CAL.
MA	1	MAGNOLIA X 'ANN'	ANN MAGNOLIA	B&B, 2.5" CAL.
UV	12	ULMUS AMERICANA 'VALLEY FORGE'	AMERICAN ELM	B&B, 2.5" CAL.
ZV	2	ZELKOVA SERRATA 'VILLAGE GREEN'	SAWLEAF ZELKOVA	B&B, 2.5" CAL.
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT
IVI	51	ITEA VIRGINICA 'HENRY'S GARNET'	HENRY'S GARNET SWEETSPIRE	3 GAL
JVG	33	JUNIPERUS VIRGINIANA 'GREY OWL'	EASTERN REDCEDAR	3 GAL
POL	40	PHYSOCARPUS OPULIFOLIUS 'LITTLE DEVIL'	DWARF NINEBARK	3 GAL
RAR	17	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	3 GAL
TME	39	TAXUS X MEDIA 'DENSIFORMIS'	DENSE YEW	3 GAL
VDE	28	VIBURNUM DENTATUM 'BLUE MUFFIN'	BLUE MUFFIN VIBURNUM	3 GAL
ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	CONT
CAC	111	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	1 GAL.
SHE	150	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	1 GAL.
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT
CPE	400	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL.
LSP	216	LIRIOPE SPICATA	CREeping LILY TURF	1 GAL.
SOD	13,915 SF	SODDED LAWN	SOD	
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	CONT
RHI	53	RUDBECKIA HIRTA	BLACK-EYED SUSAN	1 GAL.
SNE	54	SALVIA NEMOROSA 'MAY NIGHT'	MAY NIGHT SAGE	1 GAL.
SAU	71	SEDUM X 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL.



PLANTING NOTES

- Seed/Sod limit line is approximate. Seed/Sod to limits of grading and disturbance. Contractor responsible for restoration of any unauthorized disruption outside of designated construction area.
- Contractor responsible for erosion control in all seeded/sodded areas.
- Tree mulch rings in turf areas are 5 foot diameter, typical. Contractor shall provide a mulch ring around all existing trees within the limit of work. Remove all existing grass from area to be mulched and provide a typical v-trench edge.
- Bedlines are to be spade cut to a minimum depth of 3 inches unless otherwise shown on the plans. Curved bedlines are to be smooth and not segmented.
- Do not locate plants within 10' of utility structures, or within 5' horizontally of underground utility lines unless otherwise shown on the plans. Consult with Landscape Architect if these conditions exist.
- FOR LUMP SUM CONTRACTS, Plants and other materials are quantified and summarized for the convenience of the Owner and jurisdictional agencies only. Confirm and install sufficient quantities to complete the work as drawn and specified. No additional payments will be made for materials required to complete the work as drawn and specified.
- FOR UNIT PRICE CONTRACTS, Payments will be made based on actual quantities installed as measured in place by the Owners Representative.
- Refer to specifications for additional conditions, standards and notes.

SLEEVING NOTES

- Sleeving shall be schedule 40 PVC pipe unless otherwise noted. Where possible sleeving should be stacked or ganged to minimize space requirements.
- Contractor to provide a sleeving diagram for approval by the Landscape Architect prior to installation.
- Contractor shall provide at least two (2) sleeves for irrigation and electrical service to each planting area and/or raised, surrounded or isolated by paving.
- Locate sleeves in accessible corners or along edges of pavement. Avoid directing sleeves toward or through the center of planting areas where large rootballs are intended.

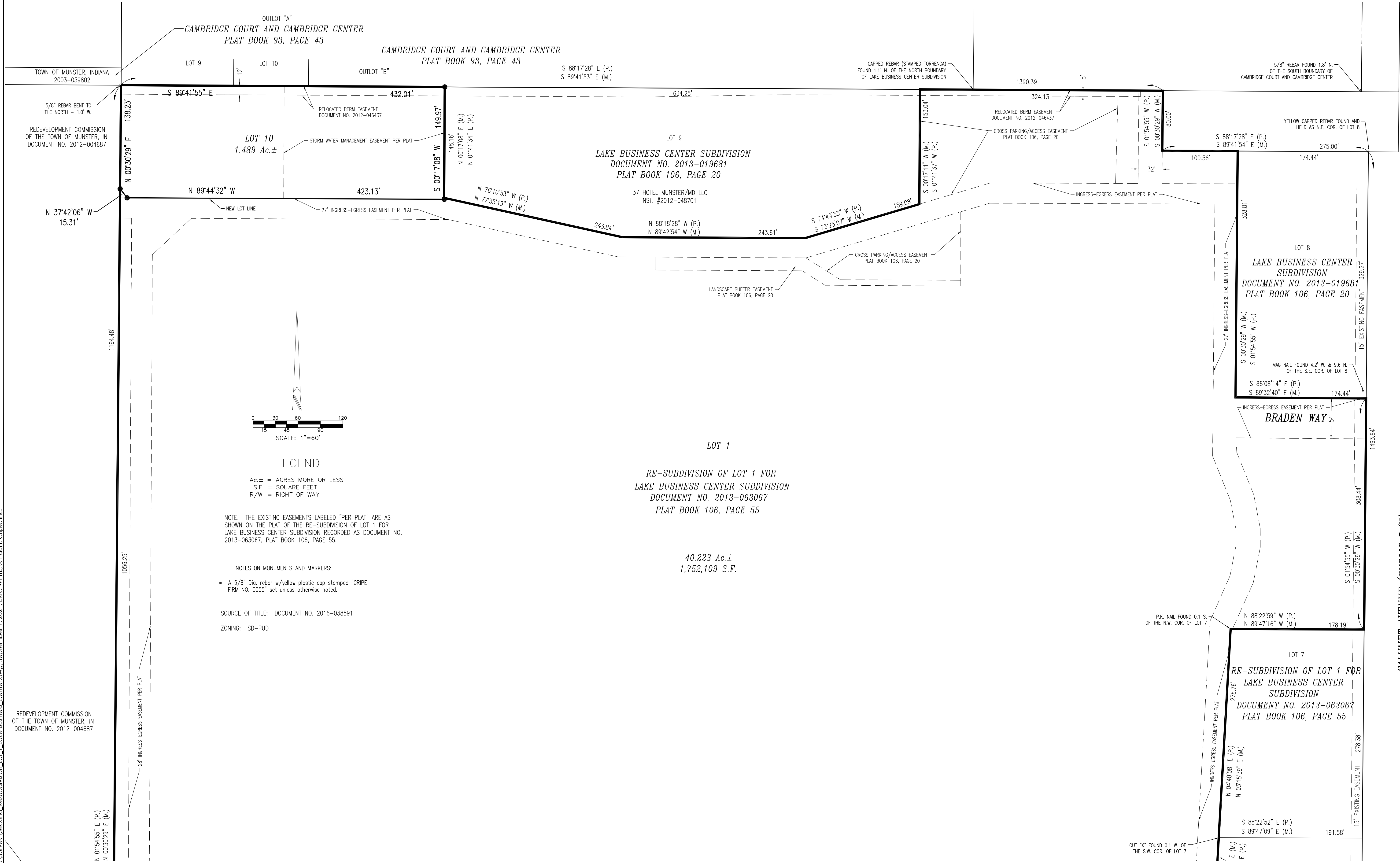
FURNITURE LAYOUT NOTES

- See Architecture Drawings for specification and location of outdoor furniture.

REQUIRED PLANT MATERIALS		
ZONING ORDINANCE SECTION	REQUIRED	PROPOSED
26-1302.2 PERIMETER SCREENING = SHADE TREES = 1100 LF	NORTH 435 LF = 15 TREES WEST 200 LF = 7 TREES SOUTH 180 LF = 6 TREES	15 TREES 7 TREES 6 TREES
26-1303.1 INTERNAL PLANTING = 16,845 SF LANDSCAPE AREA = 7.5% SHADE TREES = 1120 SF	1653.4 SF 40 TREES	4385 SF 12 TREES
TOTAL SITE PLANTING-AREA LANDSCAPE BEDS SODDED LAWN TREES		4390 SF 10,730 SF 40 TREES



SECOND RE-SUBDIVISION OF LOT 1 OF
LAKE BUSINESS CENTER SUBDIVISION



SEE SHEET 2 OF 3

I affirm, under the penalties for perjury, that I have taken reasonable care to reflect each social security number in this document, unless required by law.
Name ERIC C. WHITE

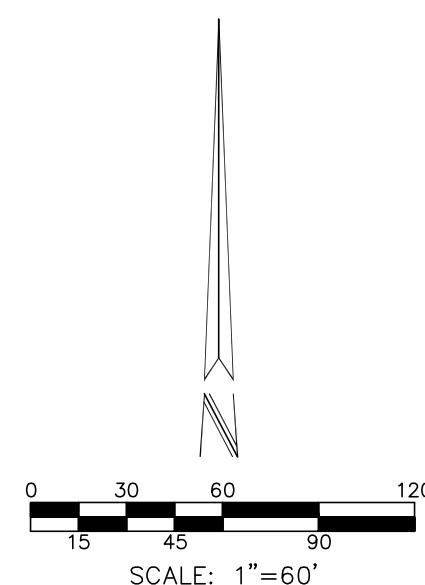
DRAWN BY:	ECW	TITLE OK BY & DATE:	
CONCEPT OK BY & DATE:		FIELD OK BY & DATE:	
CERTIFIED BY:			
NAME:	ERIC C. WHITE, P.S. #29700012	DATE:	9/09/2021

3939 Priority Way South Drive, Suite 200 Indianapolis, Indiana 46240 (317) 844-6777 E-Mail: crispe@crispe.biz	
FINAL SUBDIVISION PLAT	
SECOND RE-SUBDIVISION OF LOT 1 OF LAKE BUSINESS CENTER SUBDIVISION	
HOSPITALITY PROJECT SERVICES	
2501 S. HIGH SCHOOL ROAD INDIANAPOLIS, IN 46241	
PHONE: (317) 596-1565	
Large Township: NORTH TWP. - LAKE CO.	Range: 10 - W
Section: 25	Township: 36 - N
Record Owner: LBC OWNER LLC	
Scale: 1"=60'	Sheet No: 1 of 3
Project Number: 190149-10000	

SEE SHEET 1 OF 3

RE-SUBDIVISION OF LOT 1 FOR
LAKE BUSINESS CENTER SUBDIVISION
DOCUMENT NO. 2013-063067
PLAT BOOK 106, PAGE 55

40.223 Ac.±
1,752,109 S.F.



LEGEND

Ac.± = ACRES MORE OR LESS
S.F. = SQUARE FEET
R/W = RIGHT OF WAY

NOTE: THE EXISTING EASEMENTS LABELED "PER PLAT" ARE AS SHOWN ON THE PLAT OF THE RE-SUBDIVISION OF LOT 1 FOR LAKE BUSINESS CENTER SUBDIVISION RECORDED AS DOCUMENT NO. 2013-063067, PLAT BOOK 106, PAGE 55.

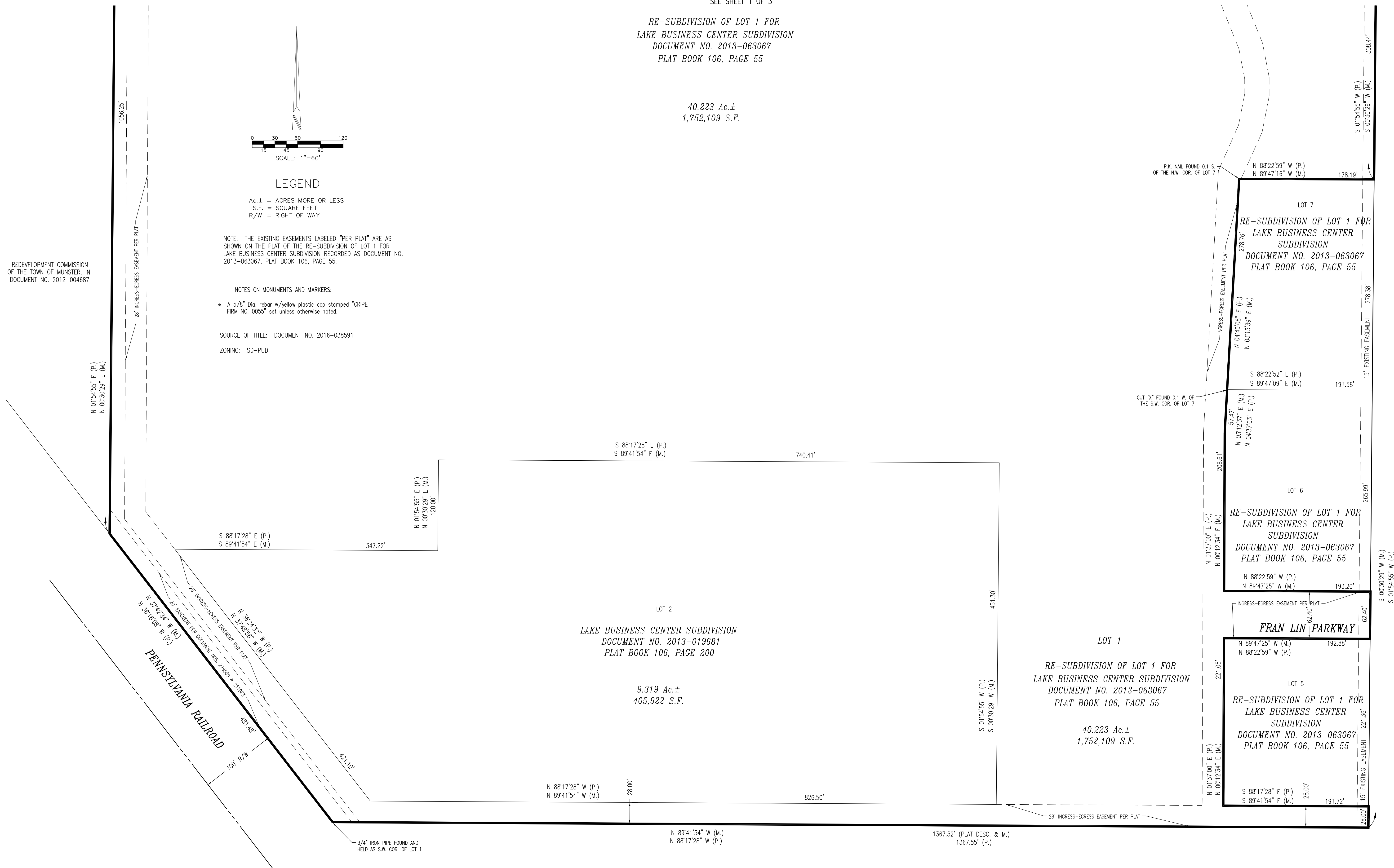
NOTES ON MONUMENTS AND MARKERS

- A 5/8" Dia. rebar w/yellow plastic cap stamped "CRIPE FIRM NO. 0055" set unless otherwise noted.

SOURCE OF TITLE: DOCUMENT NO. 2016-038591

ZONING: SD-PUD

REDEVELOPMENT COMMISSION
OF THE TOWN OF MUNSTER, IN
DOCUMENT NO. 2012-004687



"I affirm, under the penalties for perjury, that I have taken reasonable care to redact each social security number in this document, unless required by law."

Nome ERIC C. WHITE

DRAWN BY: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">ECW</div>	TECH. CK. BY & DATE:
CONCEPT CK. BY & DATE: 	FIELD CK. BY & DATE:
CERTIFIED BY: 	
NAME: ERIC C. WHITE, P.S. #29700012	DATE: 9/09/2021

THIS PLAT PREPARED BY ERIC C. WHITE, P.S. #29700012

CALUMET AVENUE (PUBLIC R/W)

	Revisions	Description
	Date	

- Architecture + Interiors
- Civil Engineering
- Survey + 3D Laser Scanning
- Energy + Facilities
- Equipment Planning
- Real Estate Services

3939 Priority Way South Drive, Suite
Indianapolis, Indiana 46240
(317) 844-6777
E-Mail cripe@cripe.biz



FINAL SUBDIVISION PLAT

SECOND RE-SUBDIVISION OF LOT 1 OF LAKE BUSINESS CENTER SUBDIVISION

THE SUBDIVISION OF LOU | OF LAKE BUSINESS CENTER SUITE
HOSPITALITY PROJECT SERVICES

2501 S. HIGH SCHOOL ROAD
INDIANAPOLIS, IN 46241

PHONE: (317)-556-1585

Legal Township	NORTH TWP. — LAKE CO.		
Section:	25	Range:	10—W
Record Owner:	36—N LBC OWNER LLC		

Scale: 1" = 60'

Sheet No. 2 of 3

Project Number 190149—10000

SECOND RE-SUBDIVISION OF LOT 1 OF LAKE BUSINESS CENTER SUBDIVISION

LAND DESCRIPTION

Lot 1 of the Re-subdivision of Lot 1 for Lake Business Center Subdivision, an addition to the Town of Munster, Lake County, Indiana, as per plat thereof, recorded as Document No. 2013-063067, Plat Book 106, page 55 in the Office of the Recorder of Lake County, Indiana, containing 41.712 acres, more or less.

This subdivision consists of two (2) lots numbered 1 and 10. The size of the lots and easements are shown in feet and decimal parts thereof.

This plat is based upon an ALTA/NSPS Land Title Survey of the above described real estate prepared by Cripe dated _____, 2021 and recorded as Document No. _____ in the Office of the Recorder of Lake County, Indiana.

Witness my signature this ____ day of _____, 2021.

Eric C. White, P.S. #29700012



DEED OF DEDICATION

We, the undersigned, LBC Owner LLC, owner(s) of the real estate shown and described herein, do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide, said real estate in accordance with the within plat.

The subdivision shall be known and designated as the "SECOND RE-SUBDIVISION OF LOT 1 OF LAKE BUSINESS CENTER SUBDIVISION", an addition to the Town of Munster, Lake County, Indiana. All streets shown and not hereto dedicated, are dedicated to the City of Indianapolis as public right of way.

Witness our Hand and Seal this day of _____, 2021.

LBC Owner LLC

By: _____

Name:

Title:

STATE OF INDIANA)

) SS:

COUNTY OF _____)

Before me the undersigned Notary Public in and for said County and State, personally appeared _____, President of LBC Owner LLC, who acknowledged the execution of the forgoing instrument as his voluntary act and deed, for the purposes herein expressed.

Witness my hand and notary seal this day of _____, 2021.

Notary Public

My Commission expires: _____

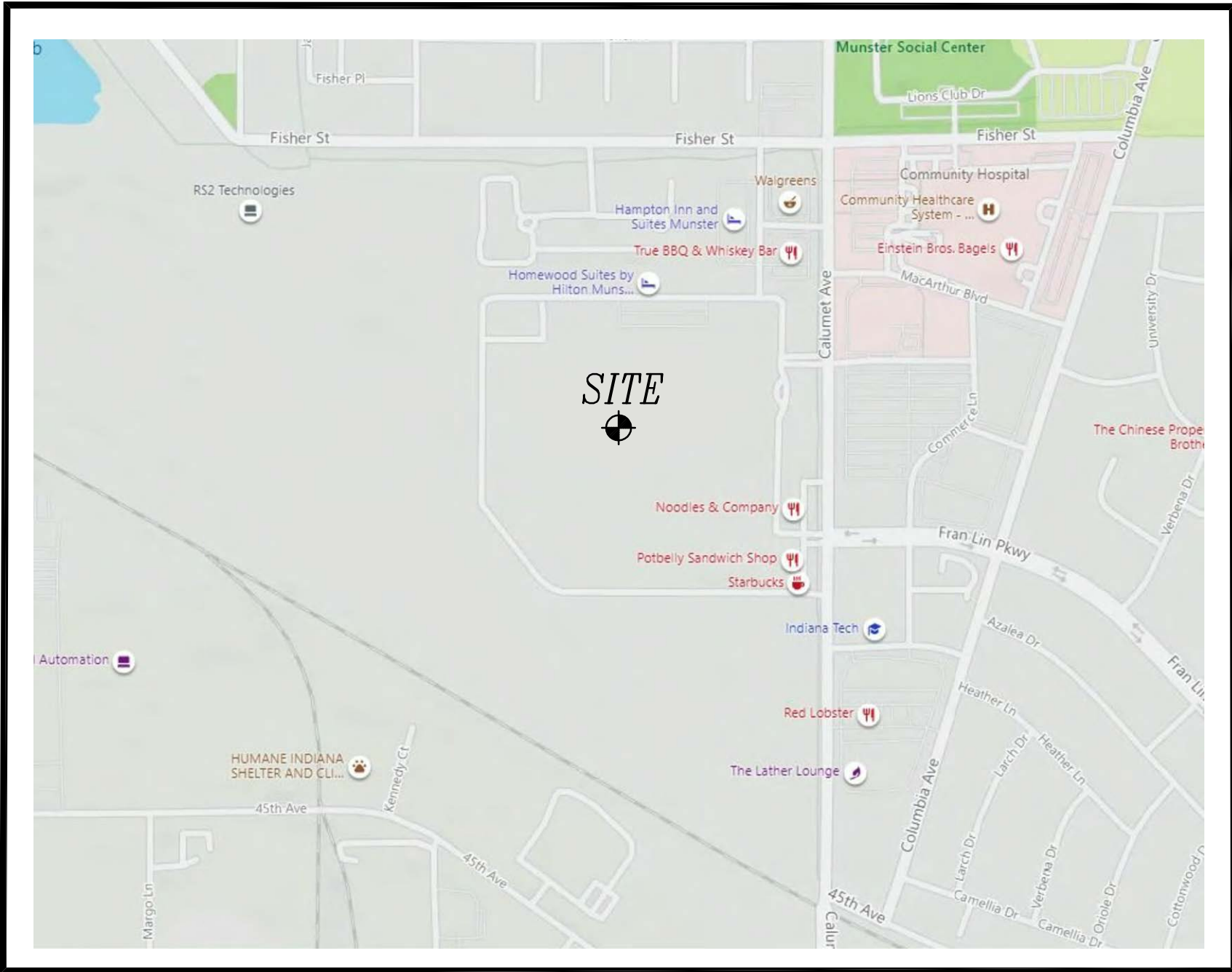
I am a resident of County _____

FLOOD STATEMENT:

The subject property is located within an unshaded Flood Zone X (areas determined to be outside the 0.2% annual chance floodplain) as plotted by scale from "FIRM", Flood Insurance Rate Map, Community Panel Number 180139 0117 E, Town of Munster, Lake County, Indiana, effective date, January 18, 2012, as prepared by the Federal Emergency Management Agency. The accuracy of any flood hazard data shown on this report is subject to map scale uncertainty and to any other uncertainty in location or elevation on the referenced Flood Insurance Rate Map.

UTILITY EASEMENTS:

An easement is hereby granted to the Town of Munster, Indiana, SBC, AT&T, Northern Indiana Public Service Company and other companies identified by the Munster Town Board as supplying public service needs severally and their respective successors and assigns to install, lay, erect, construct, renew, operate, repair, replace and maintain sewers, water mains, gas mains, conduits, cables, poles and wires, underground with all necessary braces, guys, anchors and other appliances, in, upon, along and marked "easements for public utilities" for the purpose of serving the public in general with sewer, water, gas, electric, telephone and television service, including aerial right as to streets where necessary with aerial service wires to adjacent lots, together with the right to enter upon the said easements for public utilities at all times for any and all of the purposes aforesaid and to trim and keep trimmed any trees, shrubs, or saplings that interfere with any such utility equipment. Any fences, trees, black toppings, vegetation improvements or other potential obstacles to the use of easements shown upon the subdivision plat shall be placed at the risk of the property owner and may be subject to removal in the event of any interference with the use of said easements or drainage of other lots. Changes of yard elevations in easements from those established upon the subdivision plat or noted on plats submitted and approved when building permits owner's expense. All designated utility easements are also hereby dedicated as drainage easements.



VICINITY MAP (NO SCALE)

I affirm, under the penalties for perjury, that I have taken reasonable care to reduce each social security number in this document, unless required by law.
Name, ERIC C. WHITE

DRAWN BY: ECW	TITLE: OK BY & DATE:
CONCEPT OK BY & DATE:	FIELD OK BY & DATE:
CERTIFIED BY:	
NAME: ERIC C. WHITE, P.S. #29700012	DATE: 9/09/2021

Owner:
LBC Owner LLC
1149 W. 175th Street
Homewood, IL 60430

Revisions		Description		Date
	Mark			
<div>Architecture + Interiors Civil Engineering Survey + 3D Laser Scanning Equipment Planning Real Estate Services</div> <div>3939 Priority Way South Drive, Suite 200 Indianapolis, Indiana 46240 (317) 844-6777 E-Mail: cripe@cripe.biz</div> <div></div>				
<div>FINAL SUBDIVISION PLAT SECOND RE-SUBDIVISION OF LOT 1 OF LAKE BUSINESS CENTER SUBDIVISION HOSPITALITY PROJECT SERVICES 2501 S. HIGH SCHOOL ROAD INDIANAPOLIS, IN 46241 PHONE: (317) 596-1565</div>				
Legal Township: NORTH TWP. - LAKE CO.		Range: 10-W		Record Owner: LBC OWNER LLC
Section: 25		Township: 36-N		
Scale: 1"=60'		Sheet No: 3 of 3		
Project Number: 190149-10000				