

PROJECT LOCATION

MASTER PLAN SUBMITTAL FOR:

EP MART #10

7604 KNIGHTDALE BOULEVARD KNIGHTDALE, NC 27545 TOWN OF KNIGHTDALE PROJECT #ZMA-13-21

EXISTING SITE AREA: 2.33 AC SITE AREA AFTER DEDICATION: 2.23 AC EXISTING/PROPOSED USE: CONVENIENCE STORE WITH FUEL SALES EXISTING ZONING: HB (HIGHWAY BUSINESS) PROPOSED ZONING: HBCU (HIGHWAY BUSINESS CONDITIONAL USE) PARKING REQUIRED

MAXIMUM: 3.5 PER KSF GFA = 3.5 * 6.6 KSF = 23 SPACES

MINIMUM: 1/2 OF MAXIMUM = 12 SPACES ELECTRIC VEHICLE: 6 SPACES
BICYCLE SPACES: 2 IMPERVIOUS AREA CALCULATIONS PRE-DEVELOPMENT: 71,900 SF (1.65 AC) POST-DEVELOPMENT: 61,800 SF (1.42 AC) IMPERVIOUS AREA IS REDUCED THEREFORE NO STORM WATER TREATMENT IS REQUIRED.

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C1.0	EXISTING CONDITIONS
C1.1	DEMOLITION PLAN
C2.0	SITE PLAN
C3.0	GRADING AND DRAINAGE PLAN
C4.0	UTILITY PLAN
C5.0	ARCHITECTURAL ELEVATIONS
C5.1	ARCHITECTURAL ELEVATIONS
C5.2	ARCHITECTURAL ELEVATIONS
C5.3	ARCHITECTURAL ELEVATIONS
C5.4	ARCHITECTURAL ELEVATIONS
C5.5	ARCHITECTURAL ELEVATIONS
L1.0	LANDSCAPE PLAN
I1.0	LIGHTING PLAN
I1.1	LIGHTING DETAILS
I1.2	LIGHTING DETAILS
I1.3	LIGHTING DETAILS

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF KNIGHTDALE AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

WATER ALLOCATION: EXISTING WATER CUSTOMER.

EASTERN PETROLEUM CORP. SITE DEVELOPER: dba EP MART PO BOX 398

ENFIELD, NC 27823 PHONE: (252) 445.6606 ATTN: YVONNE JONES

PROJECT OWNER AND CONSULTANT

CIVIL ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE ST., SUITE 600 RALEIGH, NORTH CAROLINA 27601 PHONE: (919) 653-2927 ATTN.: CHRIS BOSTIC, P.E. chris.bostic@kimley-horn.com

LANDSCAPE ARCHITECT:

KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE ST., SUITE 600 RALEIGH, NORTH CAROLINA 27601 PHONE: (919) 678-4170 ATTN.: MATT GROSS, PLA matt.gross@kimley-horn.com

TIMMONS GROUP 5410 TRINITY ROAD RALEIGH, NC 27607 PHONE: (919) 779-4854 NC CERTIFICATE OF AUTHORIZATION: F-0102

PREPARED IN THE OFFICE OF: Kimley» Horn

421 FAYETTEVILLE STREET - SUITE 600 - RALEIGH, NORTH CAROLINA 27601 PHONE: (919) 677-2000

PRELIMINARY NOT FOR CONSTRUCTION

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VICINITY MAP

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JUNE 27, 2022

JOB NUMBER:

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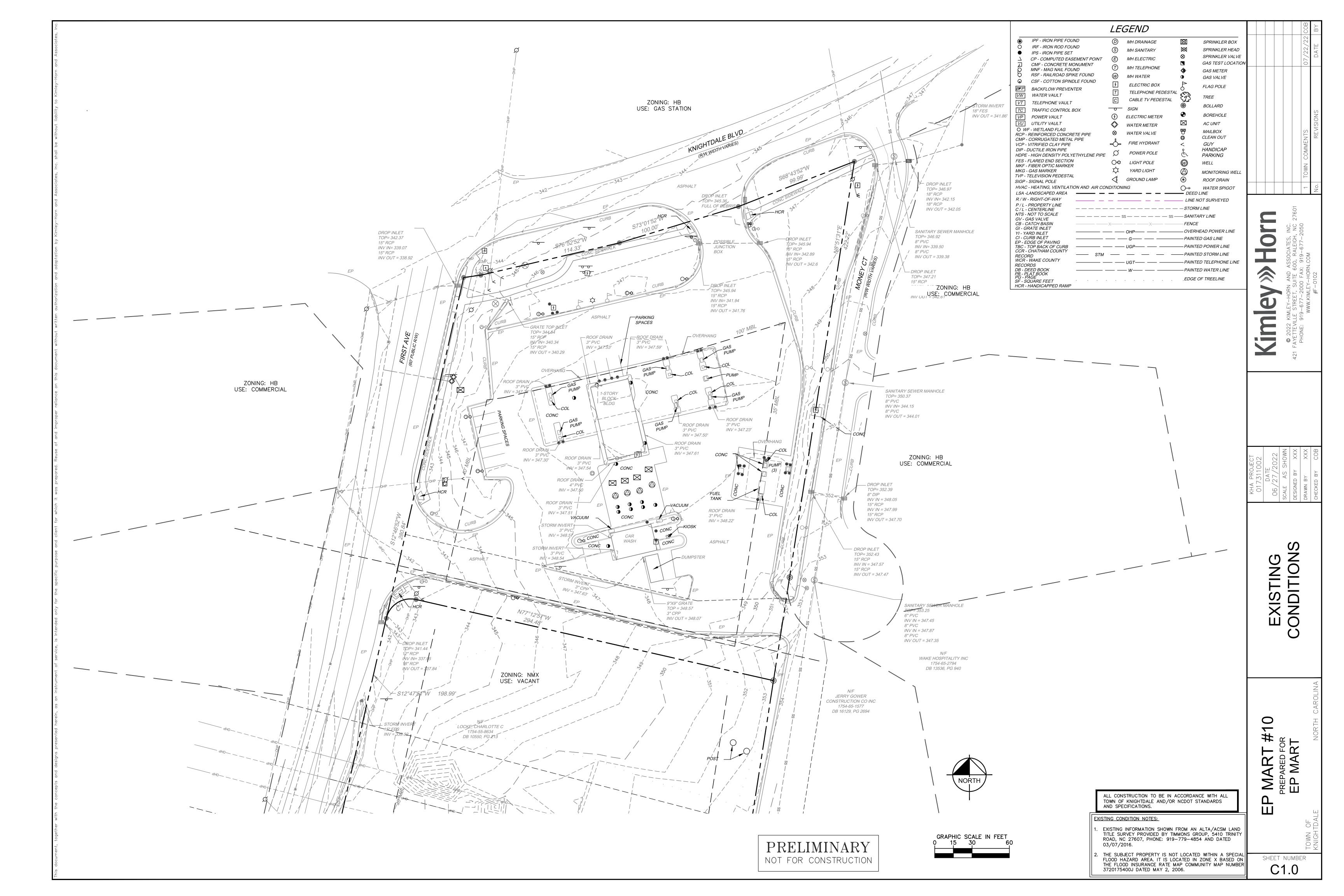
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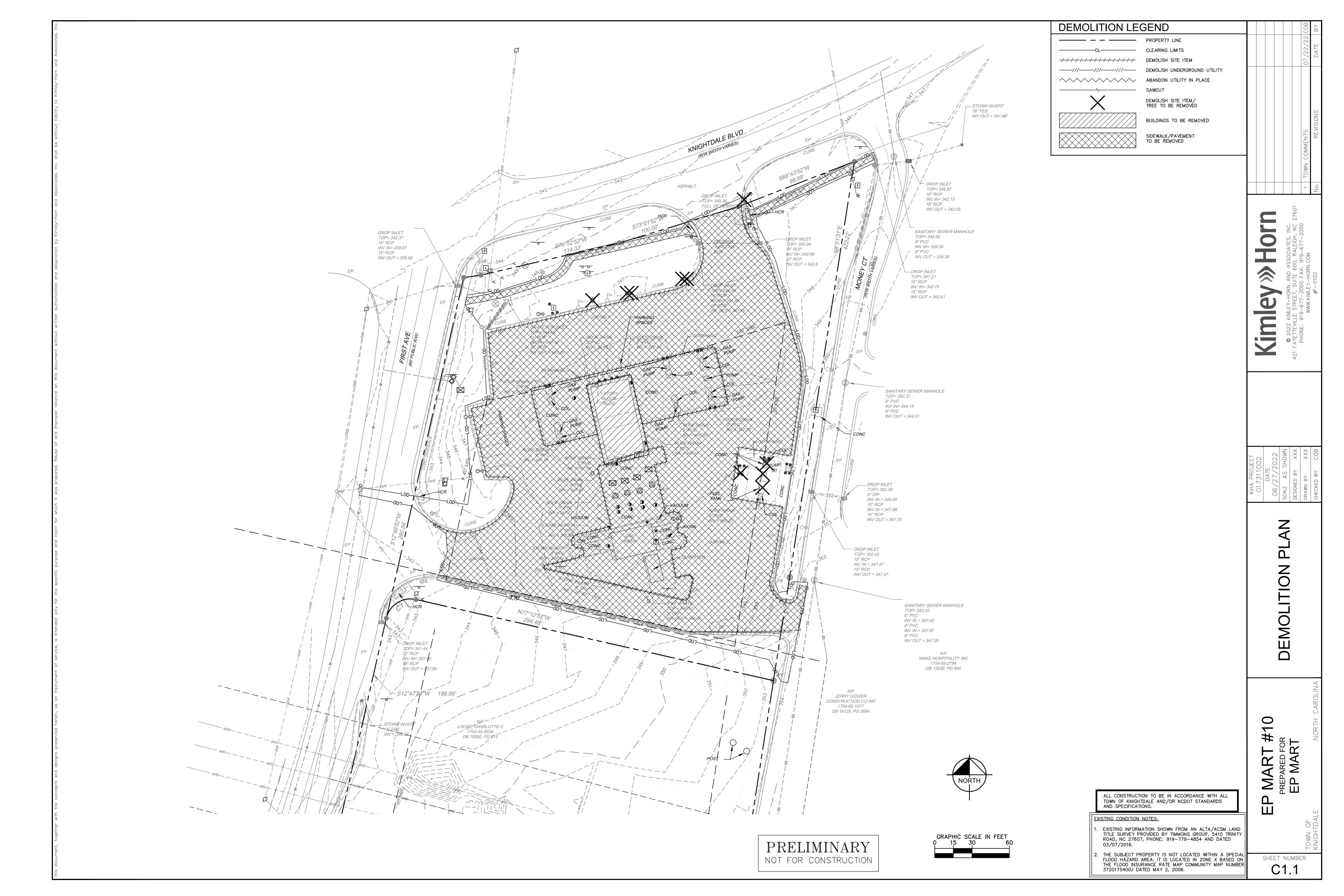
SCALE: 1" = 1000

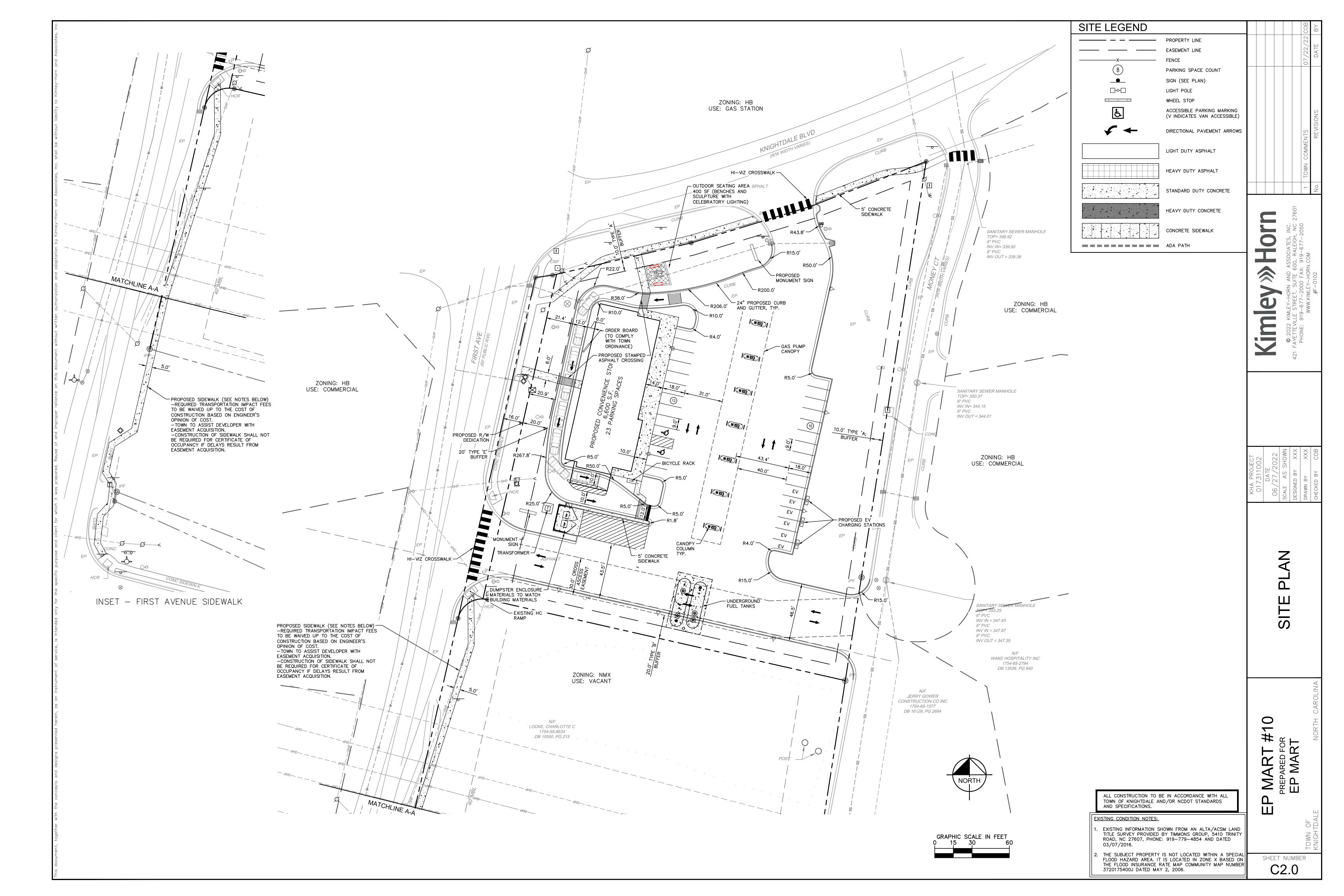
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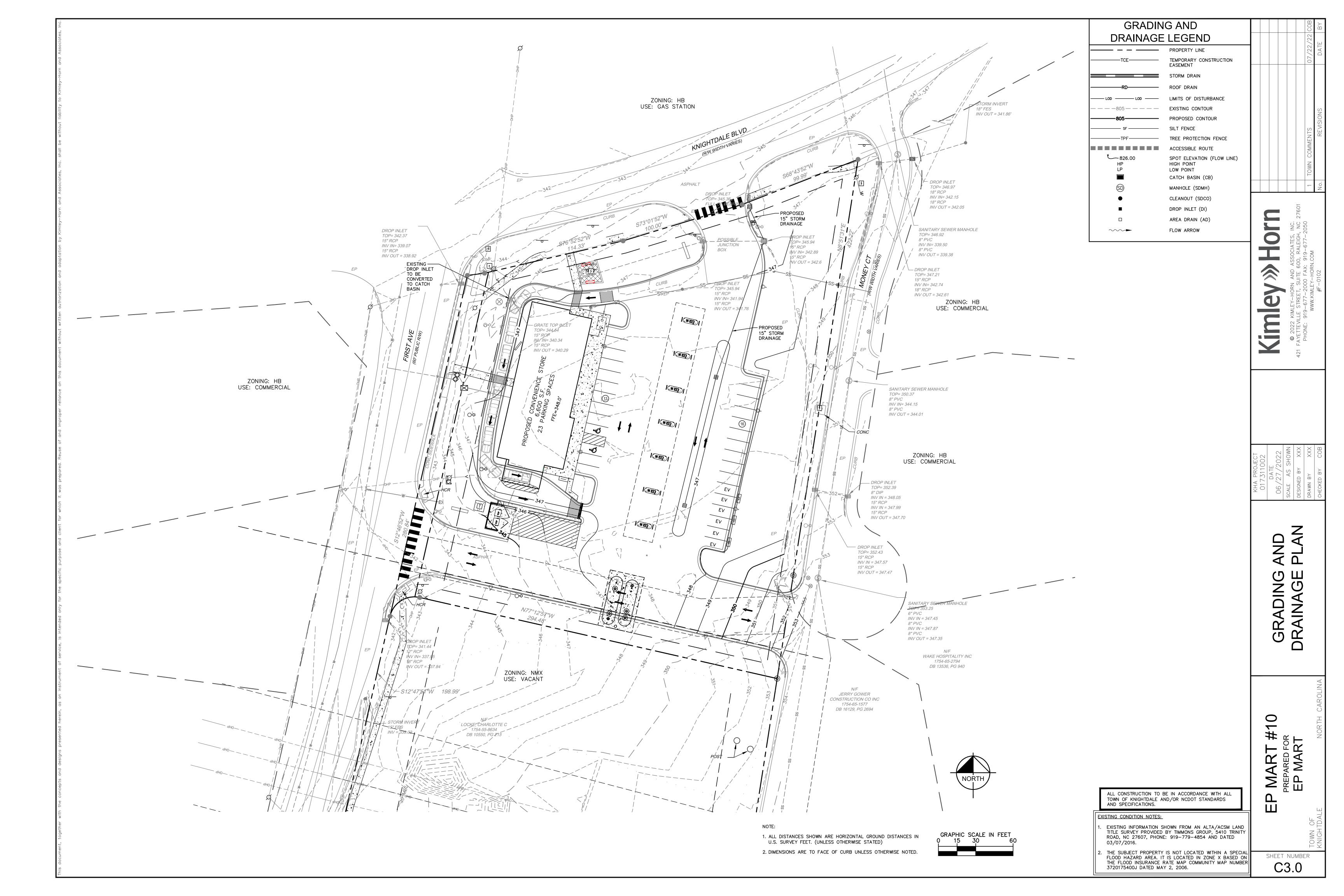
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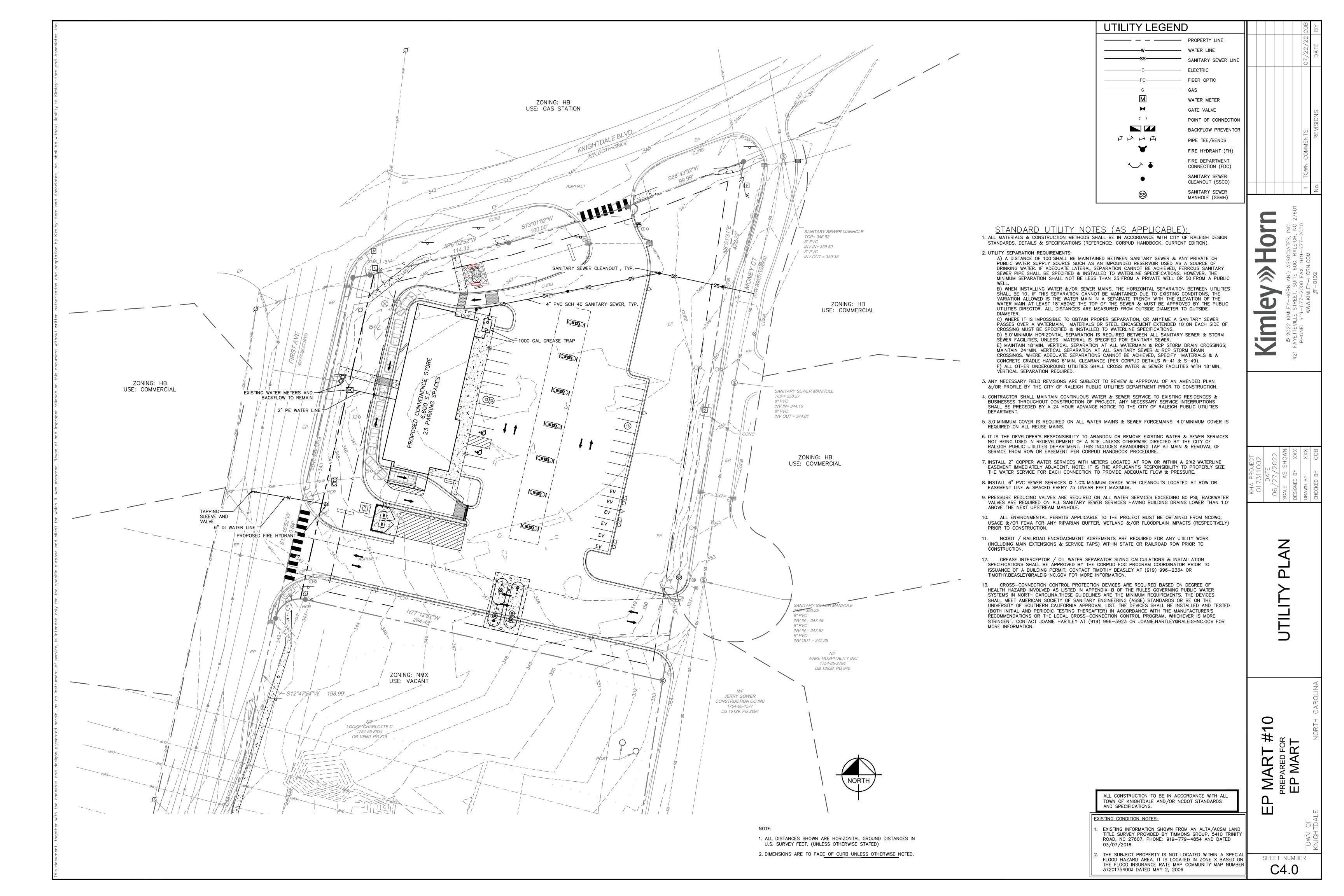
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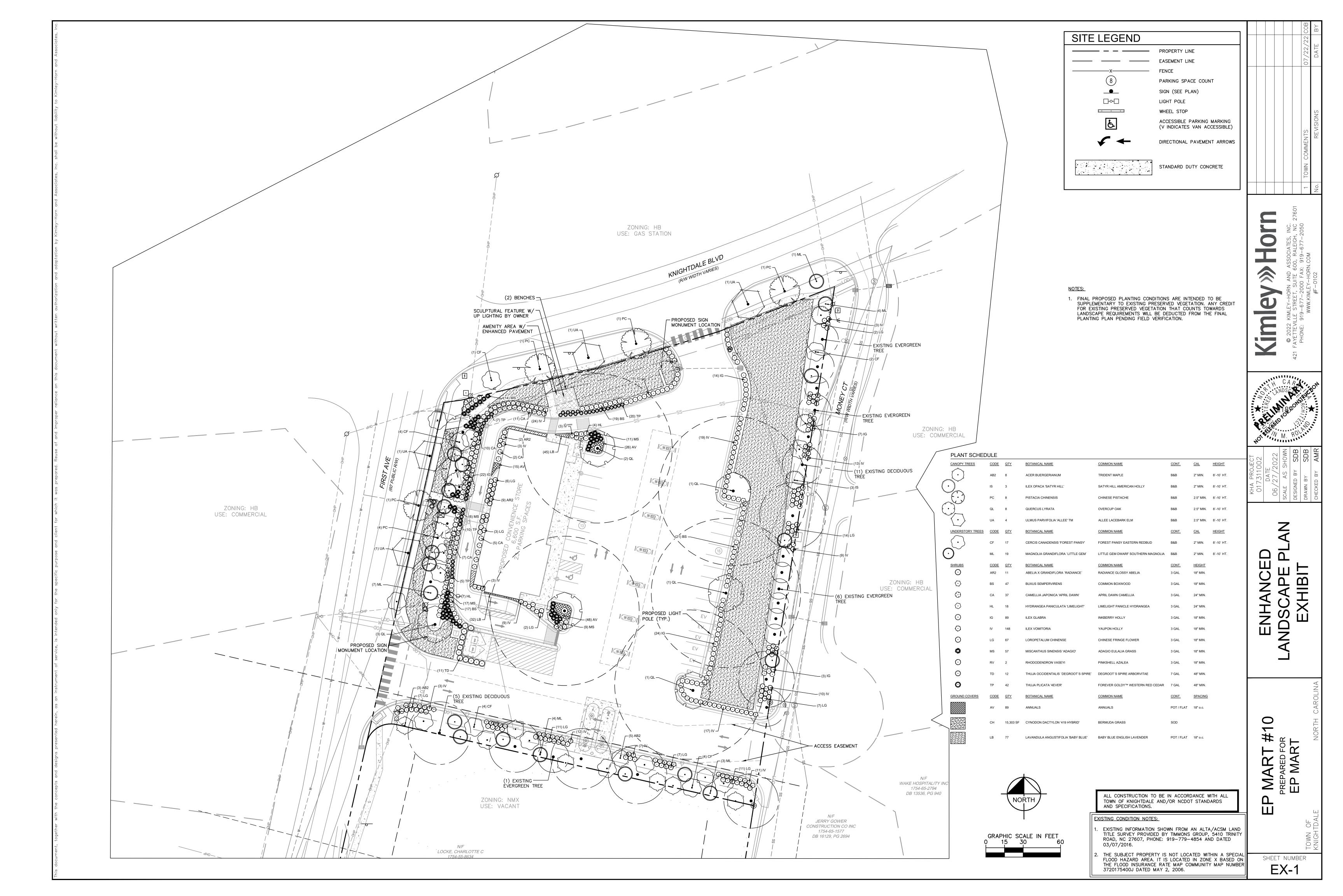


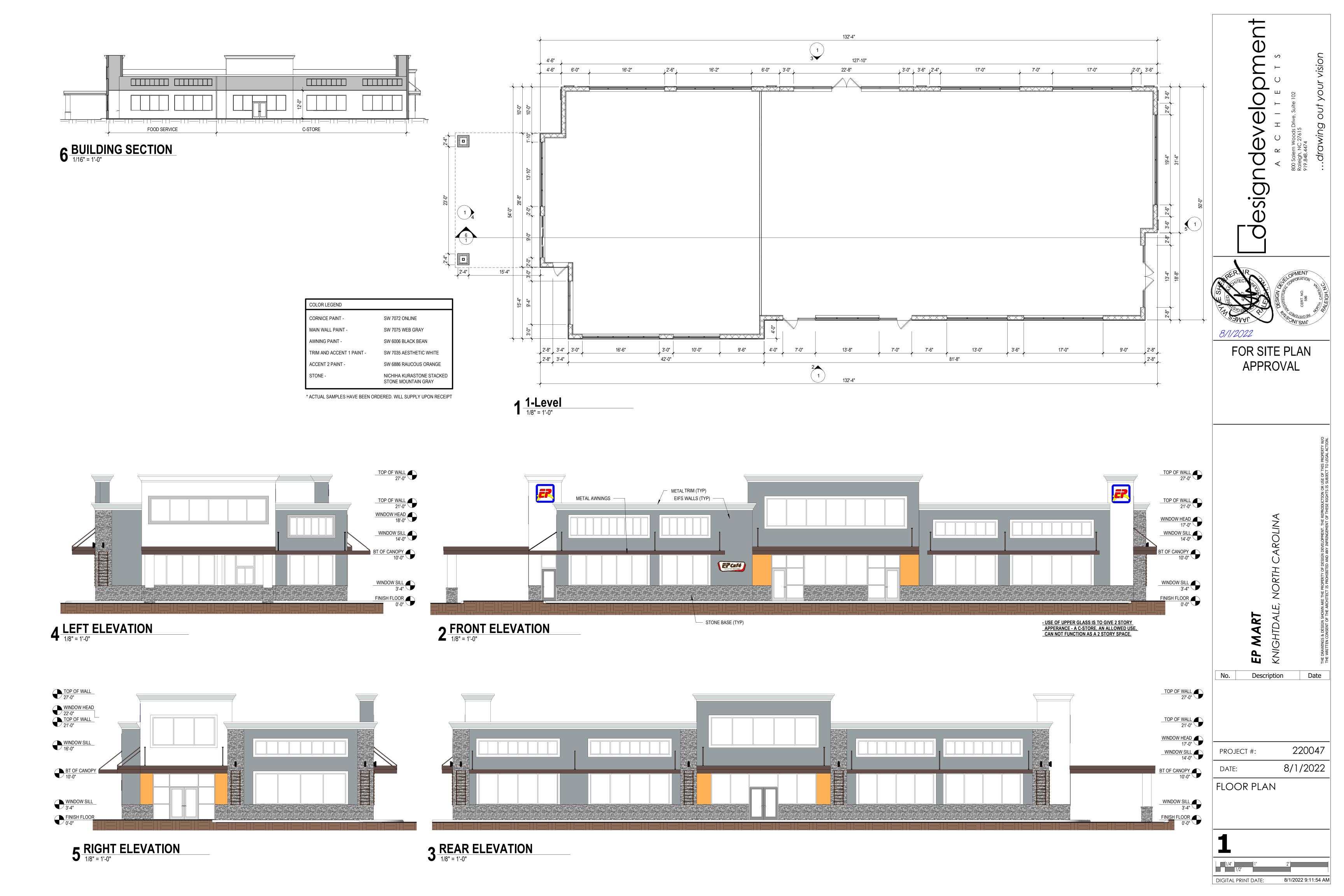














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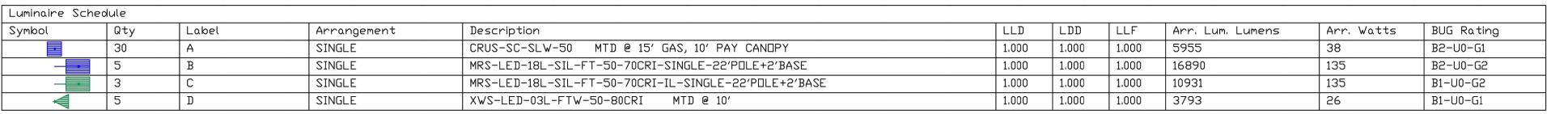


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ARCHITECTS

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LIGHTING

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SHEET NUMBER

PHOTOMETRIC EVALUATION NOT FOR CONSTRUCTION Based on the information provided, all dimensions and luminaire locations

document for ordering product.

| Calculation Summary

ALL CALC POINTS

PAY CANDPY

INSIDE CURB

CANDPY

CalcType

Illuminance

Illuminance

Illuminance

Illuminance

1.66

13.94

20.86

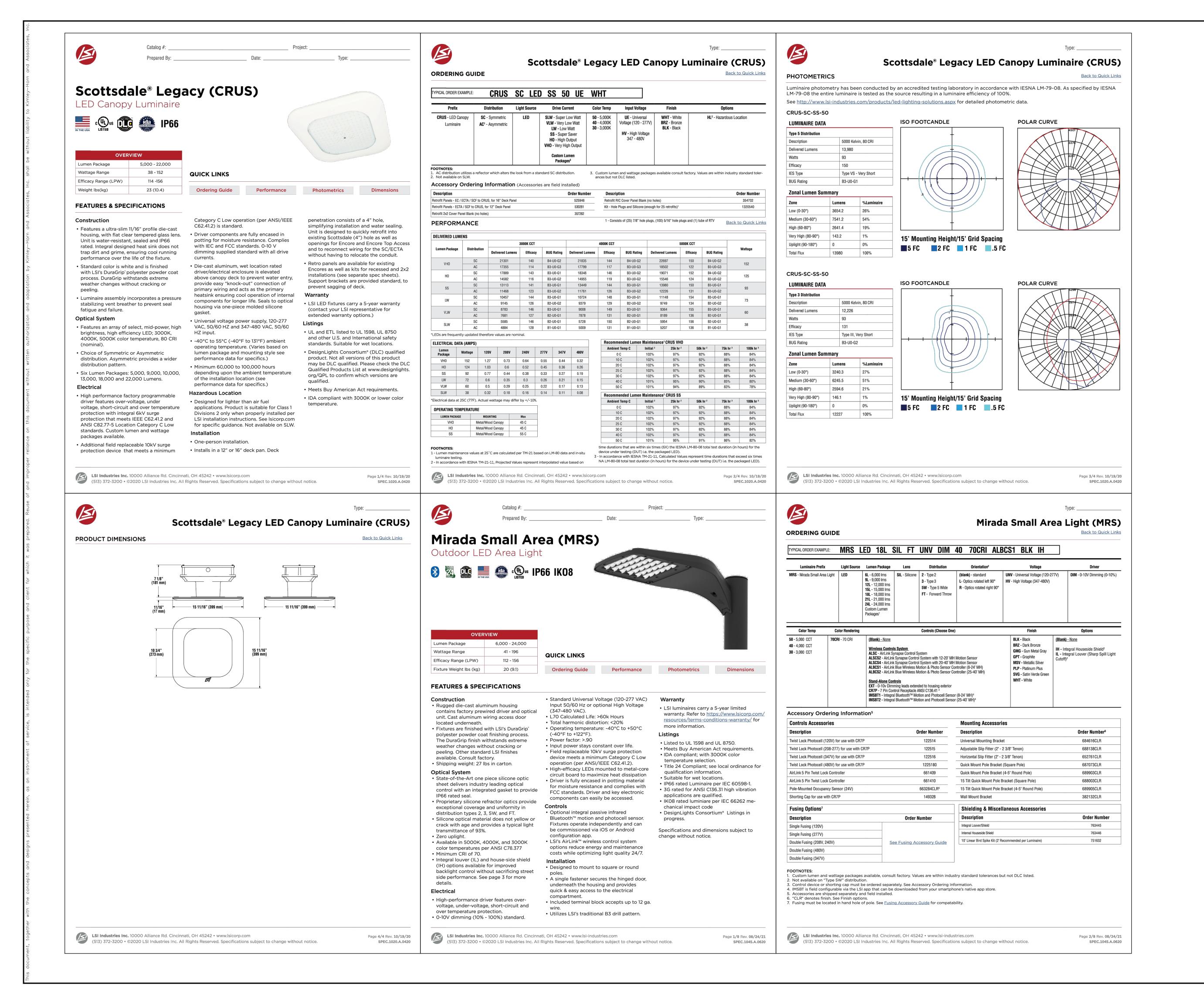
3.95

shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions. This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final Total Watts = 2350 LIGHTING PROPOSAL LO-155813 EP MART
KNIGHTDALE BLVD & FIRST AVE
KNIGHTDALE,NC

Total Project Watts

SCALE: 1"=30'

22.9 N.A.



SHEET NUMBER

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Optics Rotated Left

(Optics Rotated Right)

Mirada Small Area Light (MRS)

ACCESSORIES/OPTIONS

Integral Louver (IL) and House-Side Shield (IH)

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate with the optical distribution.

Luminaire Shown with Integral Louver (IL)

Luminaire Shown with **IMSBT Option**



7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P





Delivered Lumens*												
Lumen		CRI	3000K CCT		4000K CCT			5000K CCT			Γ	
Package	Distribution	UNI	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
6L	2	70	6045	148	B2-U0-G1	6268	154	B2-U0-G1	6253	153	B2-U0-G1	
	3		6145	151	B1-U0-G2	6372	156	B1-U0-G2	6357	156	B1-U0-G2	
	5W		5812	142	B3-U0-G1	6,026	148	B3-U0-G1	6012	147	B3-U0-G1	
	FT		5947	146	B1-U0-G1	6166	151	B1-U0-G1	6152	151	B1-U0-G1	1
	2		9091	145	B2-U0-G2	9484	152	B2-U0-G2	9462	151	B2-U0-G2	
9L	3	70	9241	148	B2-U0-G2	9641	154	B2-U0-G2	9619	154	B2-U0-G2	
9L	9L 5W 70	70	8740	140	B3-U0-G2	9,118	146	B3-U0-G2	9097	144	B3-U0-G2	
			8943	143	B2-U0-G2	9330	149	B2-U0-G2	9308	149	B2-U0-G2	
	2		12132	141	B3-U0-G2	12685	148	B3-U0-G2	12514	146	B3-U0-G2	Г
401	3	70	12333	143	B2-U0-G2	12894	150	B2-U0-G2	12721	148	B2-U0-G2	
12L	5W	70	11664	136	B4-U0-G2	12195	142	B4-U0-G2	12031	140	B4-U0-G2	
	FT	1	11935	139	B2-U0-G2	12479	145	B2-U0-G2	12311	143	B2-U0-G2	1

	rı .		6943	143	B2-00-G2	9330	149	B2-00-G2	9308	149	B2-00-G2		
	2		12132	141	B3-U0-G2	12685	148	B3-U0-G2	12514	146	B3-U0-G2		
12L	101	3	70	12333	143	B2-U0-G2	12894	150	B2-U0-G2	12721	148	B2-U0-G2	86
	5W	70	11664	136	B4-U0-G2	12195	142	B4-U0-G2	12031	140	B4-U0-G2	00	
	FT		11935	139	B2-U0-G2	12479	145	B2-U0-G2	12311	143	B2-U0-G2		
15L -	2		14220	128	B3-U0-G2	15167	137	B3-U0-G2	14488	131	B3-U0-G2		
	3	70	14938	135	B2-U0-G2	15933	144	B2-U0-G2	15219	137	B2-U0-G2	111	
	5W		14304	129	B4-U0-G2	15257	137	B4-U0-G2	14574	131	B4-U0-G2	111	
	FT		14342	129	B2-U0-G2	15297	138	B2-U0-G2	14612	132	B2-U0-G2		
	2		16438	122	B3-U0-G3	17532	130	B3-U0-G3	16747	124	B3-U0-G3		
18L	3	70	17267	128	B3-U0-G3	18417	137	B3-U0-G3	17592	131	B3-U0-G3	135	
IOL	5W] /0	16535	123	B4-U0-G2	17636	133	B5-U0-G3	16846	125	B4-U0-G2	133	
	FT		16578	123	B3-U0-G3	17682	131	B3-U0-G3	16890	125	B3-U0-G3		
	2		19488	118	B3-U0-G3	20786	126	B3-U0-G3	19885	120	B3-U0-G3		
21L	3	70	20472	124	B3-U0-G3	21835	132	B3-U0-G3	20857	126	B3-U0-G3	165	
ZIL	5W] /0	19604	119	B5-U0-G3	20,909	126	B5-U0-G3	19973	121	B5-U0-G3		
	FT		19655	119	B3-U0-G4	20964	127	B3-U0-G4	20025	121	B3-U0-G4		
	2		21976	112	B3-U0-G3	23439	120	B3-U0-G3	22390	114	B3-U0-G3		

23578

B5-U0-G3

113 B3-U0-G3

	FT		22164
*I EDs are free	augntly undated :	thoroforo	values are nemir

ELECTRICAL DATA (AMPS)*								
Lumens	120V	208V	240V	277V	347V	480V		
6L	0.34	0.20	0.17	0.15	0.12	0.09		
9L	0.52	0.30	0.26	0.23	0.18	0.13		
12L	0.72	0.41	0.36	0.31	0.25	0.18		
15L	0.93	0.53	0.46	0.40	0.32	0.23		
18L	1.12	0.65	0.56	0.49	0.39	0.28		
21L	1.38	0.80	0.69	0.60	0.48	0.34		
24L	1.63	0.94	0.82	0.71	0.56	0.41		

*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

Ambient Temp		Lumen Multiplier					
С	0 hrs. ²	25K hrs. ²	50K hrs.2	75K hrs.3	100K hrs		
0 C - 25 C	100%	95%	89%	84%	79%		
40 C	100%	94%	87%	80%	74%		

22522

120 B5-U0-G3

115 B5-U0-G3

in-situ luminaire testing. 2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X)the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).



Optics Rotated Right

(Optics Rotated Left)

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PHOTOMETRICS

Mirada Small Area Light (MRS)

Back to Quick Links

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%. See http://www.lsi-industries.com/products/led-lighting-solutions.aspx for detailed photometric data.

MRS-LED-18L-SIL-2-40-70CRI

LUMINAIRE DATA			ISO FOOTCANDLE	POLAR CURVE
Type 2 Distribution			1	10193
Description	4000 Ke	elvin, 70 CRI		
Delivered Lumens	17,532		+	
Watts	135			
Efficacy	130		(5 (1	
IES Type	Type II -	- Short	5	
BUG Rating	B3-U0-0	G3		
Zonal Lumen Sum	ımary			
Zone	Lumens	%Luminaire	Ŧ	
Low (0-30)°	2831	16%		
Medium (30-60)°	10310	59%	<u> </u>	
High (60-80)°	4208	24%	20' Mounting Height/20' Grid Spacing	
Very High (80-90)°	184	1%	■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5	
Unlight (00 100\0	_	00/		1 0

MRS-LED-18L-SIL-3-40-70CRI

Uplight (90-180)° 0

Total Flux

LUMINAIRE DATA	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	18,417
Watts	135
Efficacy	137
IES Type	Type III - Short
BUG Rating	B3-U0-G3

17532

100%

Zonal Lumen Summary							
Zone	Lumens	%Luminaire					
Low (0-30)°	2329	13%					
Medium (30-60)°	10634	61%					
High (60-80)°	5246	30%					
Very High (80-90)°	208	1%					

20' Mounting Height/20' Grid Spacing

■5 FC ■2 FC ■1 FC ■0.5 FC 0% 18417 100%

ISO FOOTCANDLE

Uplight (90-180)°

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Mirada Small Area Light (MRS)

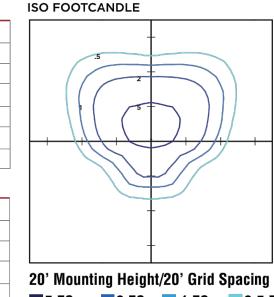
PHOTOMETRICS (CONT)

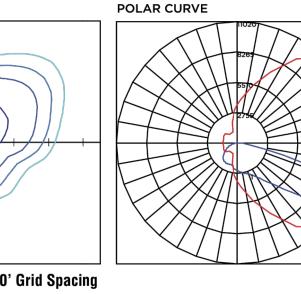
MRS-LED-18L-SIL-FT-40-70CRI LUMINAIRE DATA

Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	17,682
Watts	135
Efficacy	131
IES Type	Type III - Short
BUG Rating	B3-U0-G2

Zonal Lumen Summary							
Zone	Lumens	%Lun					
Low (0-30)°	2255	13%					
Medium (30-60)°	9463	54%					

Lonar Lamon Cam				
Zone	Lumens	%Luminaire		
Low (0-30)°	2255	13%		
Medium (30-60)°	9463	54%		
High (60-80)°	5696	32%		
Very High (80-90)°	268	2%		
Uplight (90-180)°	0	0%		
Total Flux	17682	100%		





POLAR CURVE

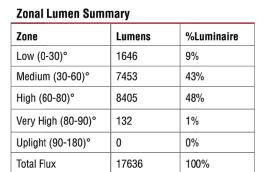
■5 FC ■2 FC ■1 FC ■0.5 FC

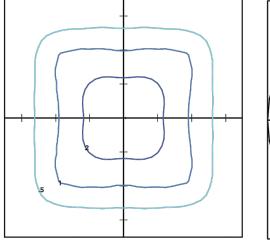
ISO FOOTCANDLE

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MRM-LED-30L-SIL-5W-40-70CRI

LUMINAIRE DATA Type 5W Distribution					
Delivered Lumens	17,636				
Watts	135				
Efficacy	131				
IES Type	Type VS - Short				
BUG Rating	B4-U0-G2				

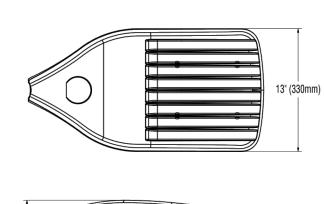


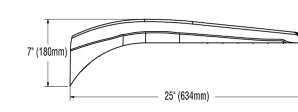


20' Mounting Height/20' Grid Spacing ■5 FC ■2 FC ■ 1 FC ■ 0.5 FC

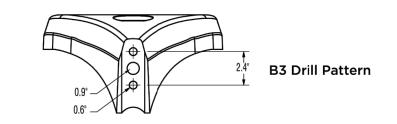
Mirada Small Area Light (MRS)

PRODUCT DIMENSIONS





LUMINA	IRE EPA (HART -	MRS						
Tilt I	Degree	0°	30°	45°	Tilt [Degree	0°	30°	45°
-	Single	0.5	1.3	1.8	- ⁷ -	T90°	1.4	2.3	2.6
	D180°	0.9	1.3	1.8	**	TN120°	1.4	1.9	2.3
₹	D90°	0.9	1.8	2.2		Q90°	1.4	2.3	2.6



CONTROLS

AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture. Click here to learn more about AirLink.

Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles. Click here to learn more about IMSBT.

AirLink Blue

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires. Click here to learn more about AirLink Blue.

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Mirada Small Area Light (MRS)

POLAR CURVE

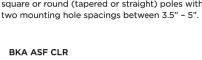
POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times. Click here to learn more details about poles & brackets.

LSI's B3 or B5 standard pole bolt patterns.

BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new onstruction poles. The UMB was designed for square or round (tapered or straight) poles with



die cast aluminum adapter to mount LSI

and 90° when using a vertical tenon.

luminaires onto a onto a 2" iron pipe , 2 3/8 OD

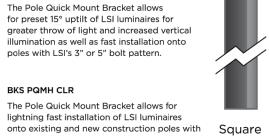
tenon. The Adjustable Slip Fitter can be rotated

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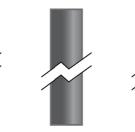
180° allowing for tilting LSI luminaires up to 45°





Pole

14'-39'



Round

Pole

10'-30'

Tapered

Pole

20'-39'

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