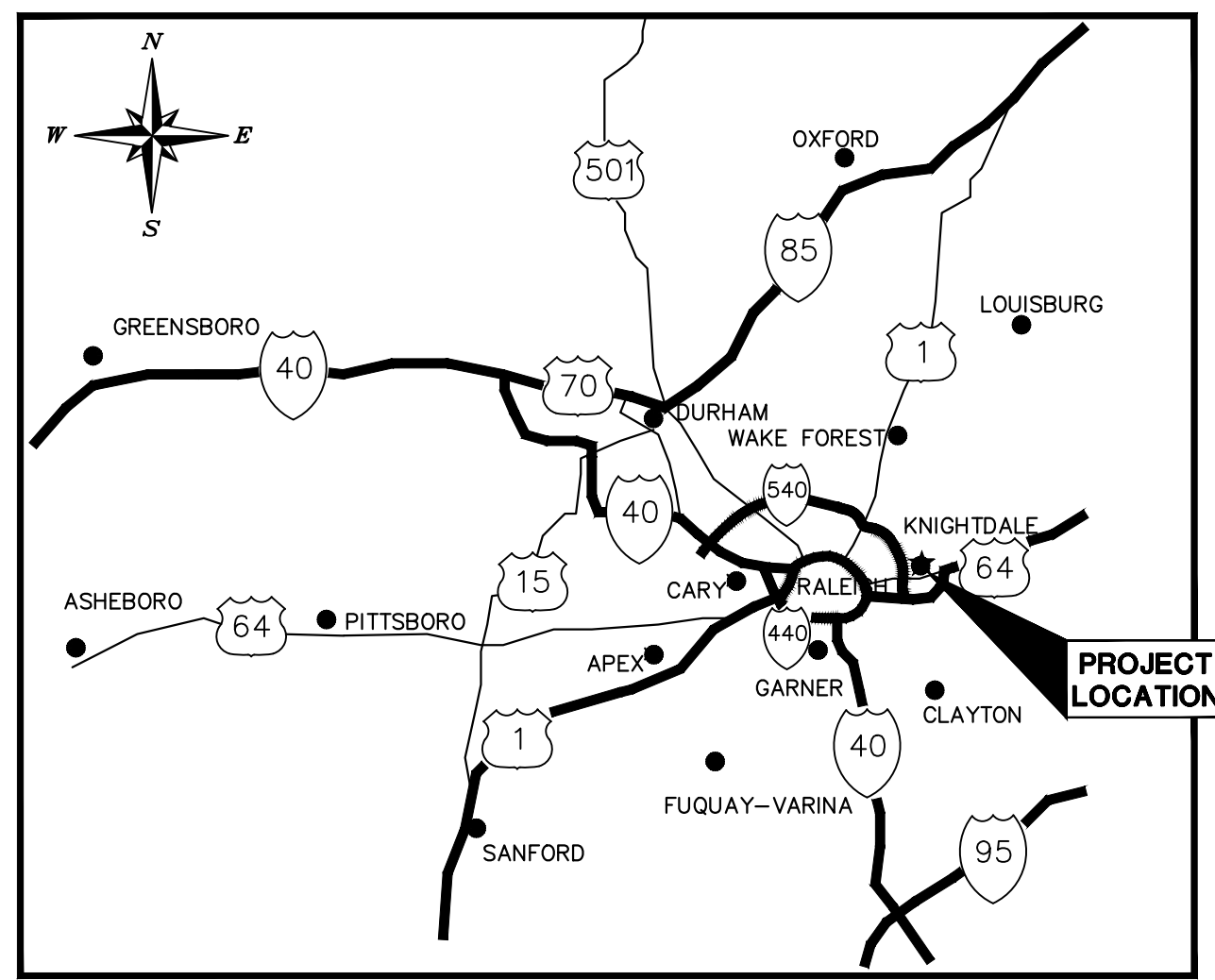
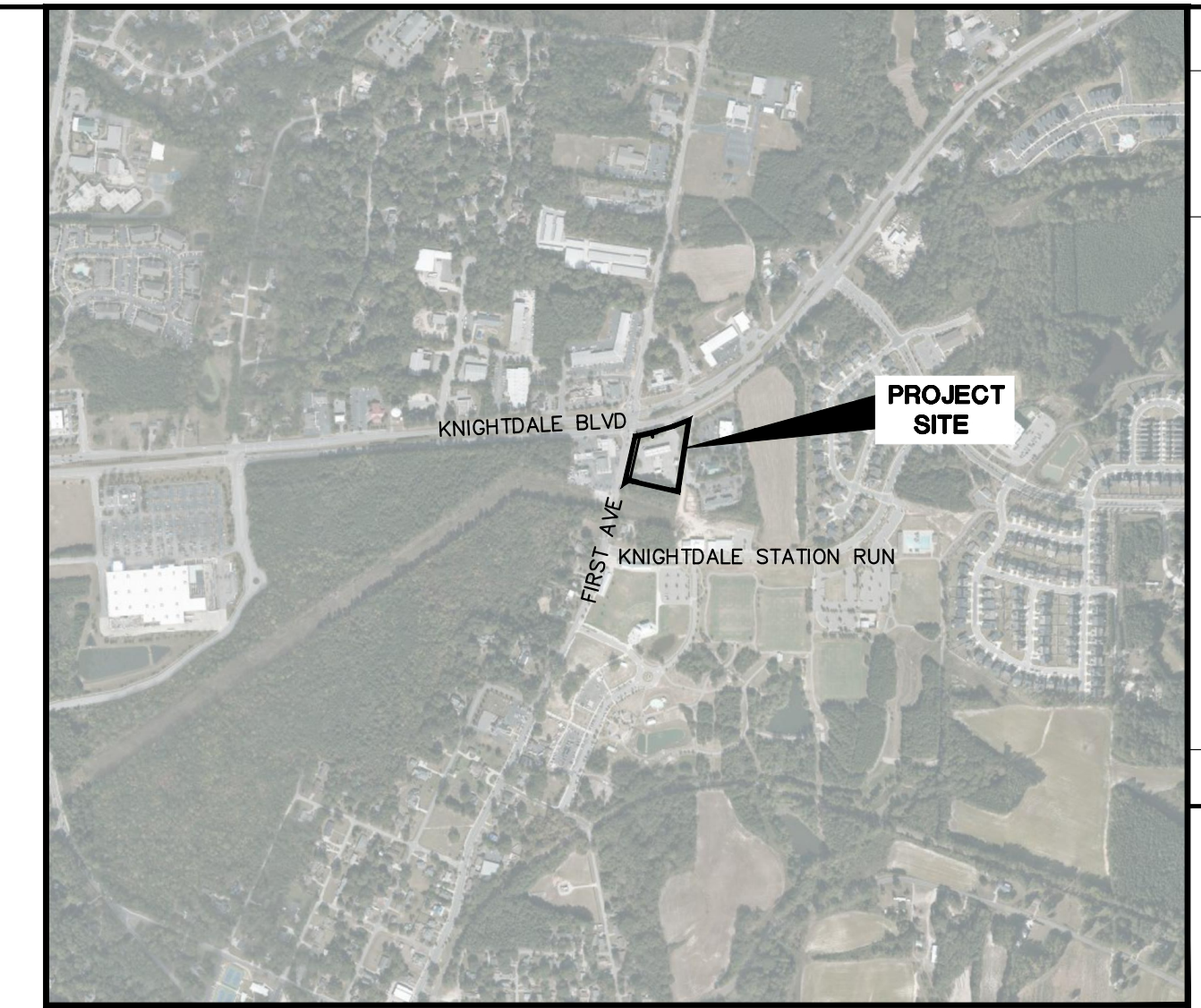


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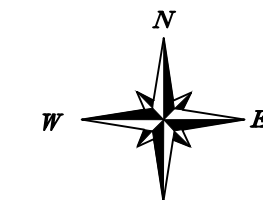


PROJECT LOCATION
NTS

MASTER PLAN SUBMITTAL FOR:
EP MART #10
 7604 KNIGHTDALE BOULEVARD
 KNIGHTDALE, NC 27545
 TOWN OF KNIGHTDALE PROJECT #XXX



VICINITY MAP



SCALE: 1" = 1000'

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
 PARKING PROVIDED
 REGULAR: 21 SPACES
 ADA: 2 SPACES
 ELECTRIC VEHICLE: 6 SPACES
 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.

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
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.

PROJECT OWNER AND CONSULTANT

SITE DEVELOPER: EASTERN PETROLEUM CORP.
 dba EP MART
 PO BOX 398
 ENFIELD, NC 27823
 PHONE: (252) 445-6806
 ATTN: YVONNE JONES

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

SURVEYOR: TIMMONS GROUP
 5410 TRINITY ROAD
 RALEIGH, NC 27607
 PHONE: (919) 779-4854

PREPARED IN THE OFFICE OF:

Kimley»Horn

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 PHONE: (919) 677-2000

NC CERTIFICATE OF AUTHORIZATION: F-0102

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SEAL:

JUNE 27, 2022

JOB NUMBER:
017311002

NO.	REVISIONS	DATE	BY

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 #F-0102

KHA PROJECT 017311002	DATE 06/27/2022	SCALE AS SHOWN	DESIGNED BY XXX	DRAWN BY XXX	CHECKED BY COB
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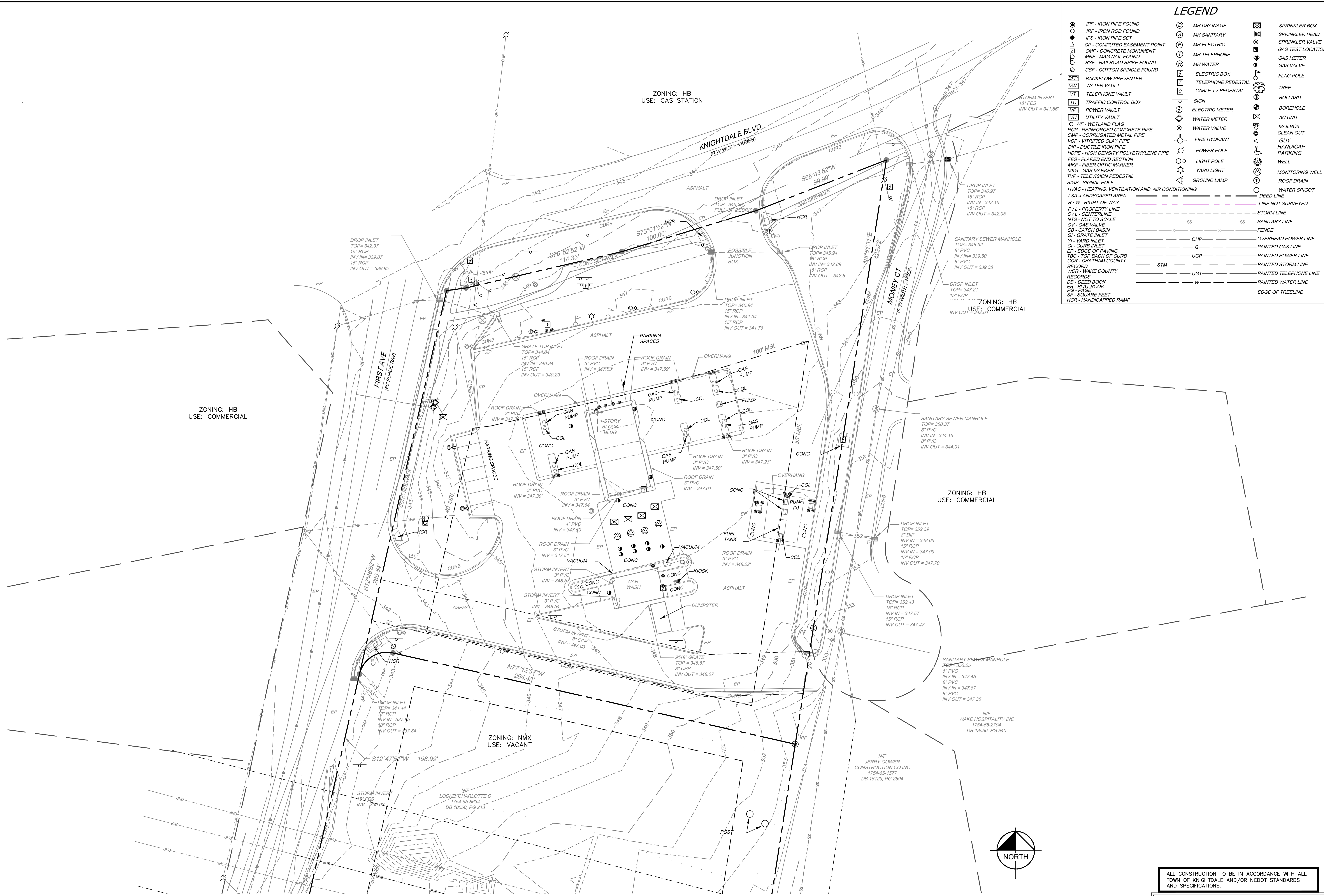
COVER SHEET

EP MART #10
 PREPARED FOR
EP MART

NORTH CAROLINA
 TOWN OF KNIGHTDALE

SHEET NUMBER
C0.0

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LEGEND

● IPF - IRON PIPE FOUND	⊙ MH DRAINAGE	⊠ SPRINKLER BOX
○ IRF - IRON ROD FOUND	⊙ MH SANITARY	⊠ SPRINKLER HEAD
● IPS - IRON PIPE SET	⊙ MH ELECTRIC	⊠ SPRINKLER VALVE
⊙ CP - COMPUTED EASEMENT POINT	⊙ MH TELEPHONE	⊠ GAS TEST LOCATION
⊙ CMP - CONCRETE MONUMENT	⊙ MH WATER	⊠ GAS METER
⊙ MNF - MAG NAIL FOUND	⊙ ELECTRIC BOX	⊠ GAS VALVE
⊙ RSF - RAILROAD SPIKE FOUND	⊙ TELEPHONE PEDESTAL	⊠ FLAG POLE
⊙ CSF - COTTON SPINDLE FOUND	⊙ CABLE TV PEDESTAL	⊠ TREE
⊠ BFP - BACKFLOW PREVENTER	⊙ SIGN	⊠ BOLLARD
⊠ WV - WATER VAULT	⊙ ELECTRIC METER	⊠ BOREHOLE
⊠ TV - TELEPHONE VAULT	⊙ WATER METER	⊠ AC UNIT
⊠ TC - TRAFFIC CONTROL BOX	⊙ WATER VALVE	⊠ MAILBOX
⊠ VP - POWER VAULT	⊙ FIRE HYDRANT	⊠ CLEAN OUT
⊠ UV - UTILITY VAULT	⊙ POWER POLE	⊠ GUY
⊙ WF - WETLAND FLAG	⊙ LIGHT POLE	⊠ HANDICAP PARKING
⊙ RCP - REINFORCED CONCRETE PIPE	⊙ YARD LIGHT	⊠ WELL
⊙ CMP - CORRUGATED METAL PIPE	⊙ GROUND LAMP	⊠ MONITORING WELL
⊙ VCP - VITRIFIED CLAY PIPE	⊙	⊠ ROOF DRAIN
⊙ DIP - DUCTILE IRON PIPE	⊙	⊠ WATER SPIGOT
⊙ HDPE - HIGH DENSITY POLYETHYLENE PIPE	⊙	⊠ DEED LINE
⊙ FES - FLARED END SECTION	⊙	⊠ LINE NOT SURVEYED
⊙ MKF - FIBER OPTIC MARKER	⊙	⊠ STORM LINE
⊙ MKG - GAS MARKER	⊙	⊠ SANITARY LINE
⊙ TYP - TELEVISION PEDESTAL	⊙	⊠
⊙ SGP - SIGNAL POLE	⊙	⊠
⊙ HVAC - HEATING, VENTILATION AND AIR CONDITIONING	⊙	⊠
⊙ LSA - LANDSCAPED AREA	⊙	⊠
⊙ R/W - RIGHT-OF-WAY	⊙	⊠
⊙ P/L - PROPERTY LINE	⊙	⊠
⊙ C/L - CENTERLINE	⊙	⊠
⊙ NTS - NOT TO SCALE	⊙	⊠
⊙ GV - GAS VALVE	⊙	⊠
⊙ CB - CATCH BASIN	⊙	⊠
⊙ GI - GRATE INLET	⊙	⊠
⊙ YI - YARD INLET	⊙	⊠
⊙ CI - CURB INLET	⊙	⊠
⊙ EP - EDGE OF PAVING	⊙	⊠
⊙ TBC - TOP BACK OF CURB	⊙	⊠
⊙ CCR - CHATHAM COUNTY RECORD	⊙	⊠
⊙ WCR - WAKE COUNTY RECORDS	⊙	⊠
⊙ DB - DEED BOOK	⊙	⊠
⊙ PL - PLAT BOOK	⊙	⊠
⊙ PG - PAGE	⊙	⊠
⊙ SF - SQUARE FEET	⊙	⊠
⊙ HCR - HANDICAPPED RAMP	⊙	⊠

NO.	REVISIONS	DATE	BY

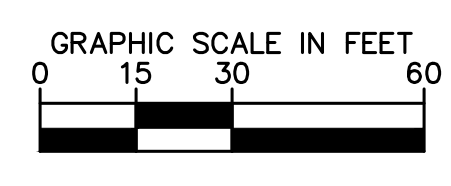
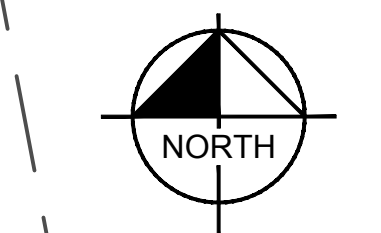
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 #F-0102

KHA PROJECT	017.311.002
DATE	06/27/2022
SCALE	AS SHOWN
DESIGNED BY	XXX
DRAWN BY	XXX
CHECKED BY	COB

EXISTING CONDITIONS

EP MART #10
 PREPARED FOR
EP MART
 TOWN OF KNIGHTDALE
 NORTH CAROLINA

PRELIMINARY
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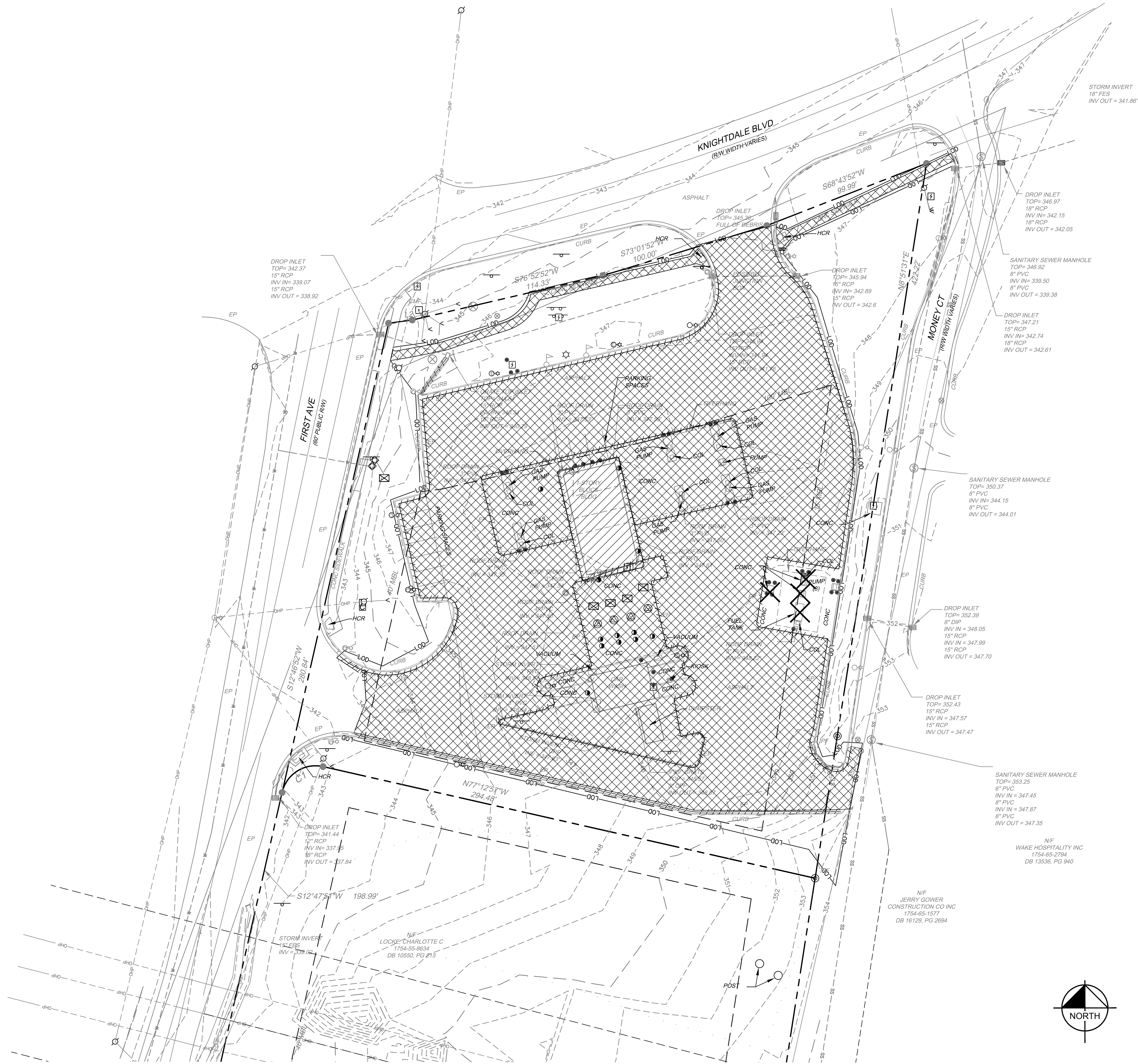


ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF KNIGHTDALE AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

- EXISTING CONDITION NOTES:**
- EXISTING INFORMATION SHOWN FROM AN ALTA/ACSM LAND TITLE SURVEY PROVIDED BY TIMMONS GROUP, 5410 TRINITY ROAD, NC 27607, PHONE: 919-779-4854 AND DATED 03/07/2016.
 - THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA. IT IS LOCATED IN ZONE X BASED ON THE FLOOD INSURANCE RATE MAP COMMUNITY MAP NUMBER 3720175400J DATED MAY 2, 2006.

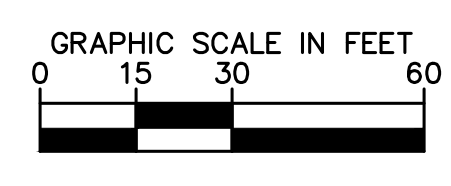
SHEET NUMBER
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DEMOLITION LEGEND	
	PROPERTY LINE
	CLEARING LIMITS
	DEMOLISH SITE ITEM
	DEMOLISH UNDERGROUND UTILITY
	ABANDON UTILITY IN PLACE
	SAWCUT
	DEMOLISH SITE ITEM/TREE TO BE REMOVED
	BUILDINGS TO BE REMOVED
	SIDEWALK/PAVEMENT TO BE REMOVED

PRELIMINARY
NOT FOR CONSTRUCTION



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NO.	REVISIONS	DATE	BY

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WWW.KIMLEY-HORN.COM #F-0102

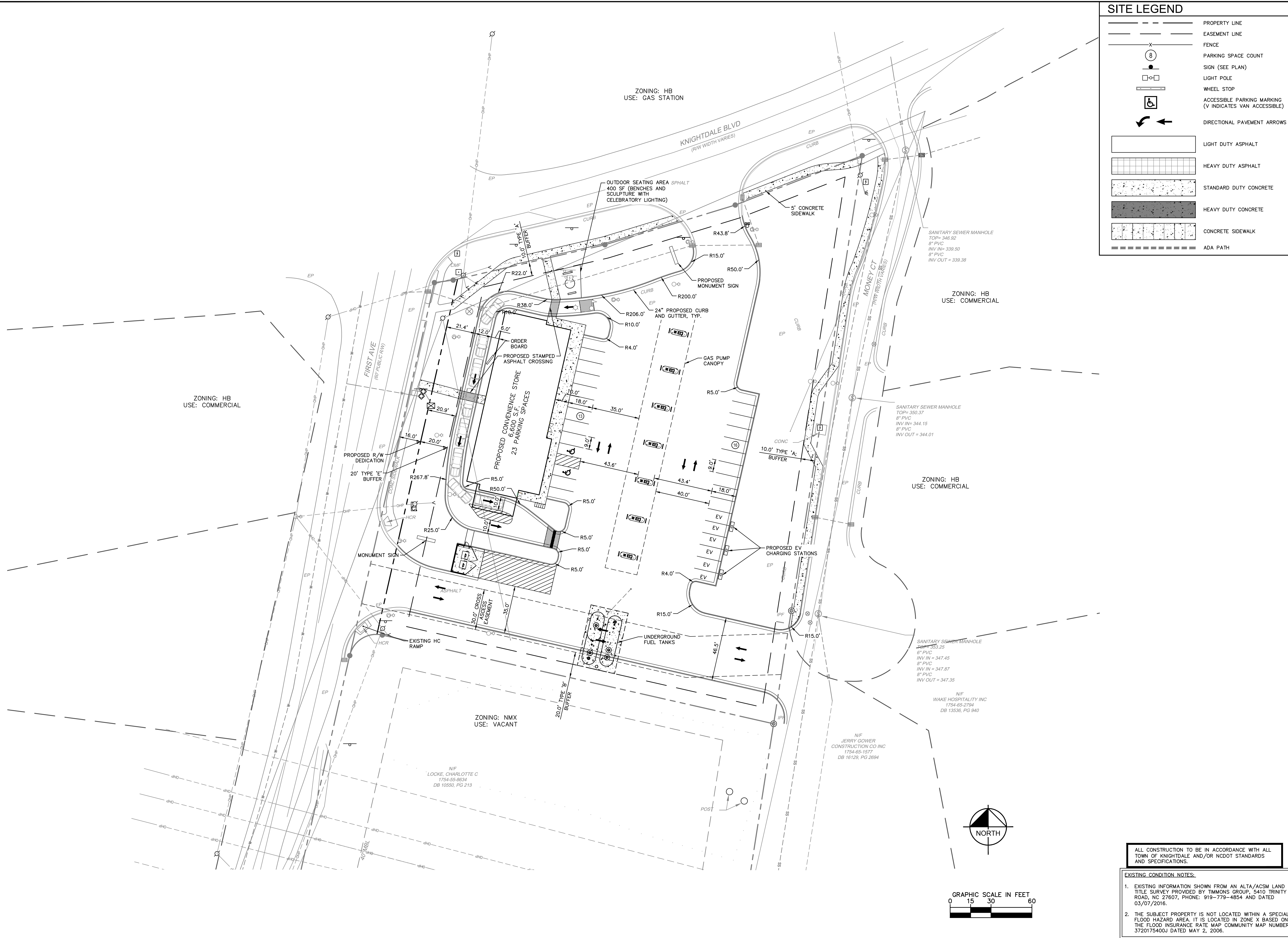
KHA PROJECT	017311002
DATE	06/27/2022
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DESIGNED BY	XXX
DRAWN BY	XXX
CHECKED BY	COB

DEMOLITION PLAN

EP MART #10
PREPARED FOR
EP MART
TOWN OF KNIGHTDALE
NORTH CAROLINA

SHEET NUMBER
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SITE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	FENCE
	PARKING SPACE COUNT
	SIGN (SEE PLAN)
	LIGHT POLE
	WHEEL STOP
	ACCESSIBLE PARKING MARKING (V INDICATES VAN ACCESSIBLE)
	DIRECTIONAL PAVEMENT ARROWS
	LIGHT DUTY ASPHALT
	HEAVY DUTY ASPHALT
	STANDARD DUTY CONCRETE
	HEAVY DUTY CONCRETE
	CONCRETE SIDEWALK
	ADA PATH

NO.	REVISIONS	DATE	BY

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SCALE	AS SHOWN
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DRAWN BY	XXX
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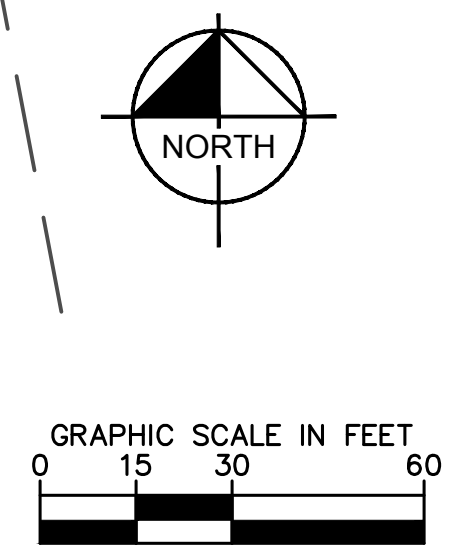
SITE PLAN

EP MART #10
 PREPARED FOR
EP MART

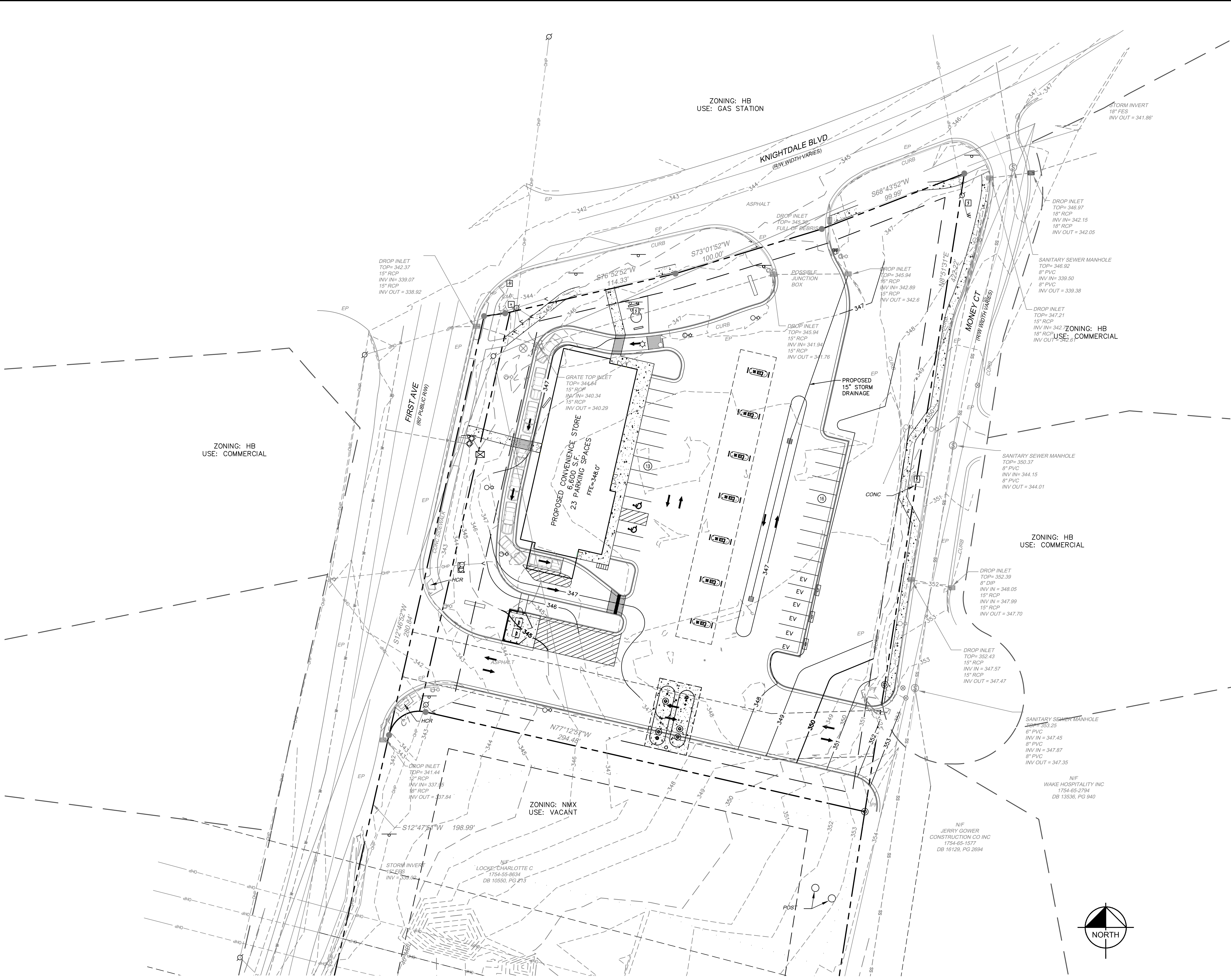
TOWN OF KNIGHTDALE
 NORTH CAROLINA

SHEET NUMBER
C2.0

- EXISTING CONDITION NOTES:**
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GRADING AND DRAINAGE LEGEND	
	PROPERTY LINE
	TEMPORARY CONSTRUCTION EASEMENT
	STORM DRAIN
	ROOF DRAIN
	LIMITS OF DISTURBANCE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	SILT FENCE
	TREE PROTECTION FENCE
	ACCESSIBLE ROUTE
	SPOT ELEVATION (FLOW LINE)
	HIGH POINT
	LOW POINT
	CATCH BASIN (CB)
	MANHOLE (SDMH)
	CLEANOUT (SDCO)
	DROP INLET (DI)
	AREA DRAIN (AD)
	FLOW ARROW

NO.	REVISIONS	DATE	BY

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 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601
 PHONE: 919-677-2000 FAX: 919-677-2050
 WWW.KIMLEY-HORN.COM
 # - 0102

KHA PROJECT	017311002
DATE	06/27/2022
SCALE	AS SHOWN
DESIGNED BY	XXX
DRAWN BY	XXX
CHECKED BY	COB

GRADING AND DRAINAGE PLAN

EP MART #10
 PREPARED FOR
EP MART
 NORTH CAROLINA
 TOWN OF KNIGHTDALE

SHEET NUMBER
C3.0

ZONING: HB
 USE: COMMERCIAL

ZONING: HB
 USE: GAS STATION

ZONING: HB
 USE: COMMERCIAL

ZONING: HB
 USE: COMMERCIAL

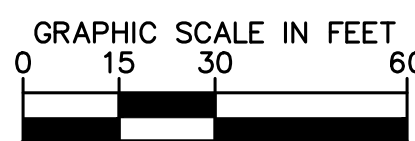
ZONING: NMX
 USE: VACANT

LOCKE CHARLOTTE C
 1754-55-8634
 DB 10850, PG 213

NIF
 JERRY GOWER
 CONSTRUCTION CO INC
 1754-65-1577
 DB 16129, PG 2694

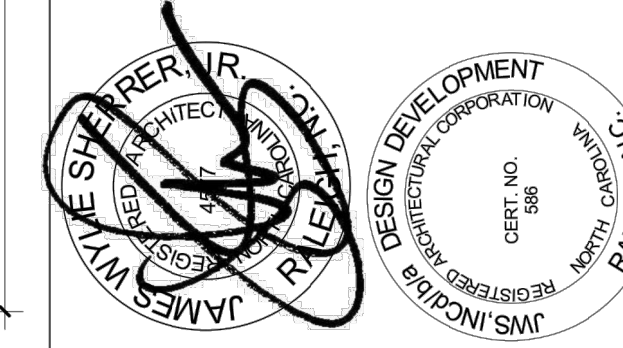
NF
 WAKE HOSPITALITY INC
 1754-65-2794
 DB 13536, PG 940

- NOTE:
- ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET. (UNLESS OTHERWISE STATED)
 - DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.



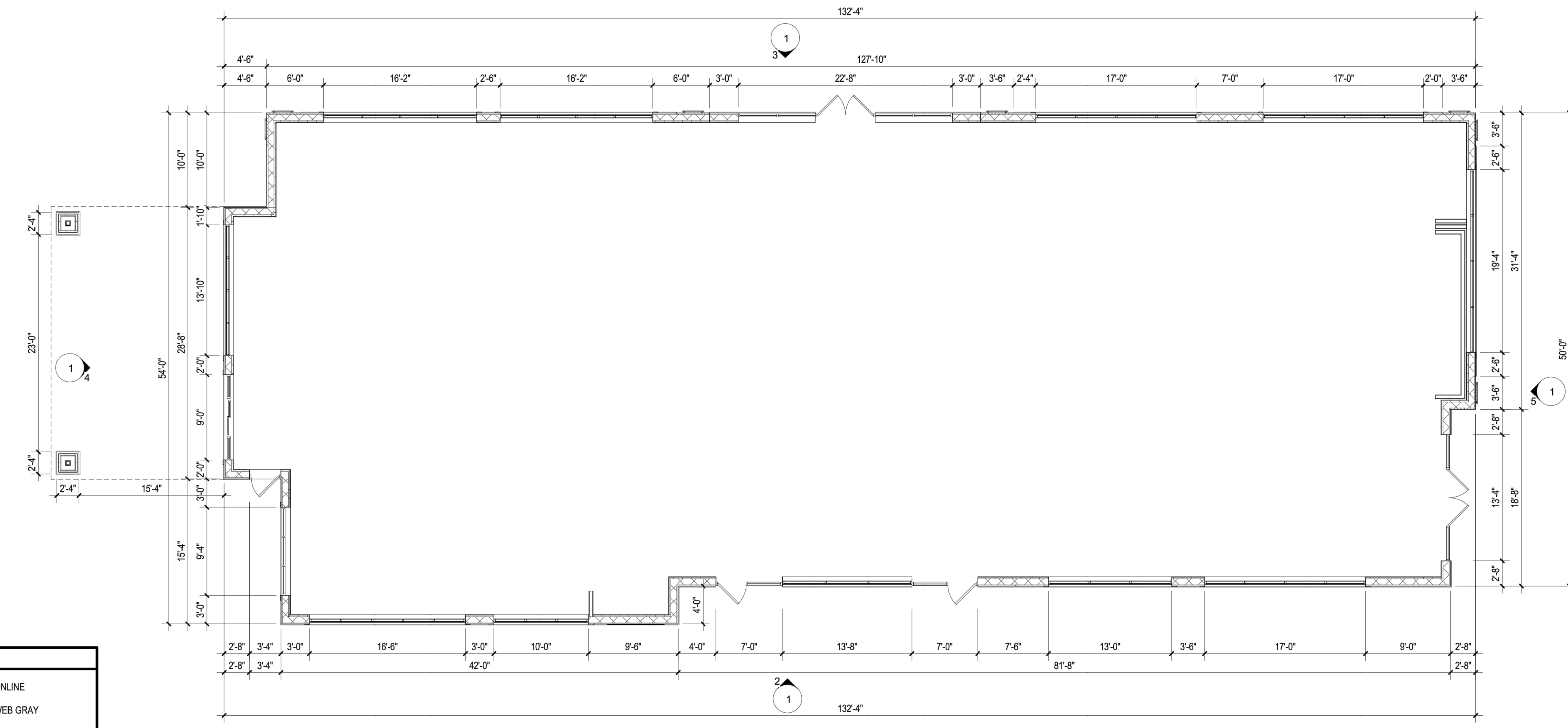
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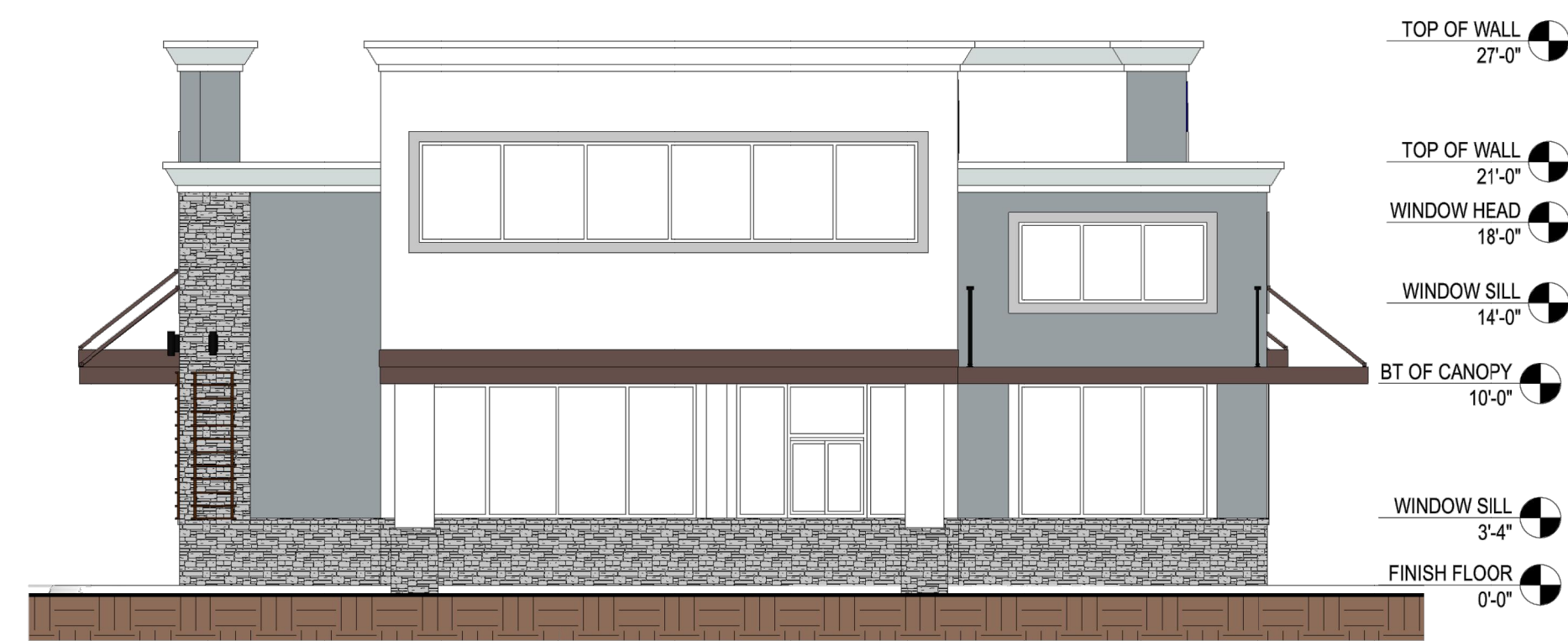
6/23/2022

FOR SITE PLAN APPROVAL



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

COLOR LEGEND	
CORNICE PAINT -	SW 7072 ONLINE
MAIN WALL PAINT -	SW 7075 WEB GRAY
AWNING PAINT -	SW 6006 BLACK BEAN
TRIM AND ACCENT 1 PAINT -	SW 7035 AESTHETIC WHITE
ACCENT 2 PAINT -	SW 6886 RAUCOUS ORANGE
STONE -	NICHIHA KURASTONE STACKED STONE MOUNTAIN GRAY



4 LEFT ELEVATION
1/8" = 1'-0"



2 FRONT ELEVATION
1/8" = 1'-0"



5 RIGHT ELEVATION
1/8" = 1'-0"



3 REAR ELEVATION
1/8" = 1'-0"

EP MART
KNIGHTDALE, NORTH CAROLINA

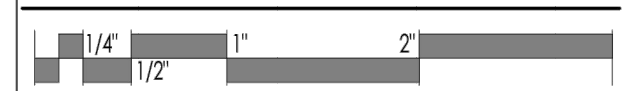
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No.	Description	Date

PROJECT #: 220047
DATE: 6/23/2022

FLOOR PLAN

1



DIGITAL PRINT DATE: 6/23/2022 8:26:43 AM



EP MART
KNIGHTDALE, NORTH CAROLINA

designdevelopment
ARCHITECTS

2

6/23/2022 8:31:47 AM
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EP MART
KNIGHTDALE, NORTH CAROLINA

designdevelopment
ARCHITECTS

3

6/23/2022 8:31:58 AM
This document is 11x17 printed full size



EP MART
KNIGHTDALE, NORTH CAROLINA

The logo for designdevelopment ARCHITECTS. The word "design" is in a lowercase, red, sans-serif font, followed by "development" in a lowercase, black, sans-serif font. Below this, the word "ARCHITECTS" is written in a smaller, uppercase, black, sans-serif font. The entire logo is enclosed in a thin black rectangular border.



EP MART
KNIGHTDALE, NORTH CAROLINA

The logo for designdevelopment ARCHITECTS. The word "design" is in a lowercase, sans-serif font with a red dot for the letter 'i'. "development" is in a lowercase, sans-serif font. Below "development" is the word "ARCHITECTS" in a smaller, uppercase, sans-serif font. A small square icon is positioned to the left of the word "design".

5

6/23/2022 8:32:25 AM
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EP MART
KNIGHTDALE, NORTH CAROLINA

designdevelopment
ARCHITECTS

6

6/23/2022 8:32:33 AM
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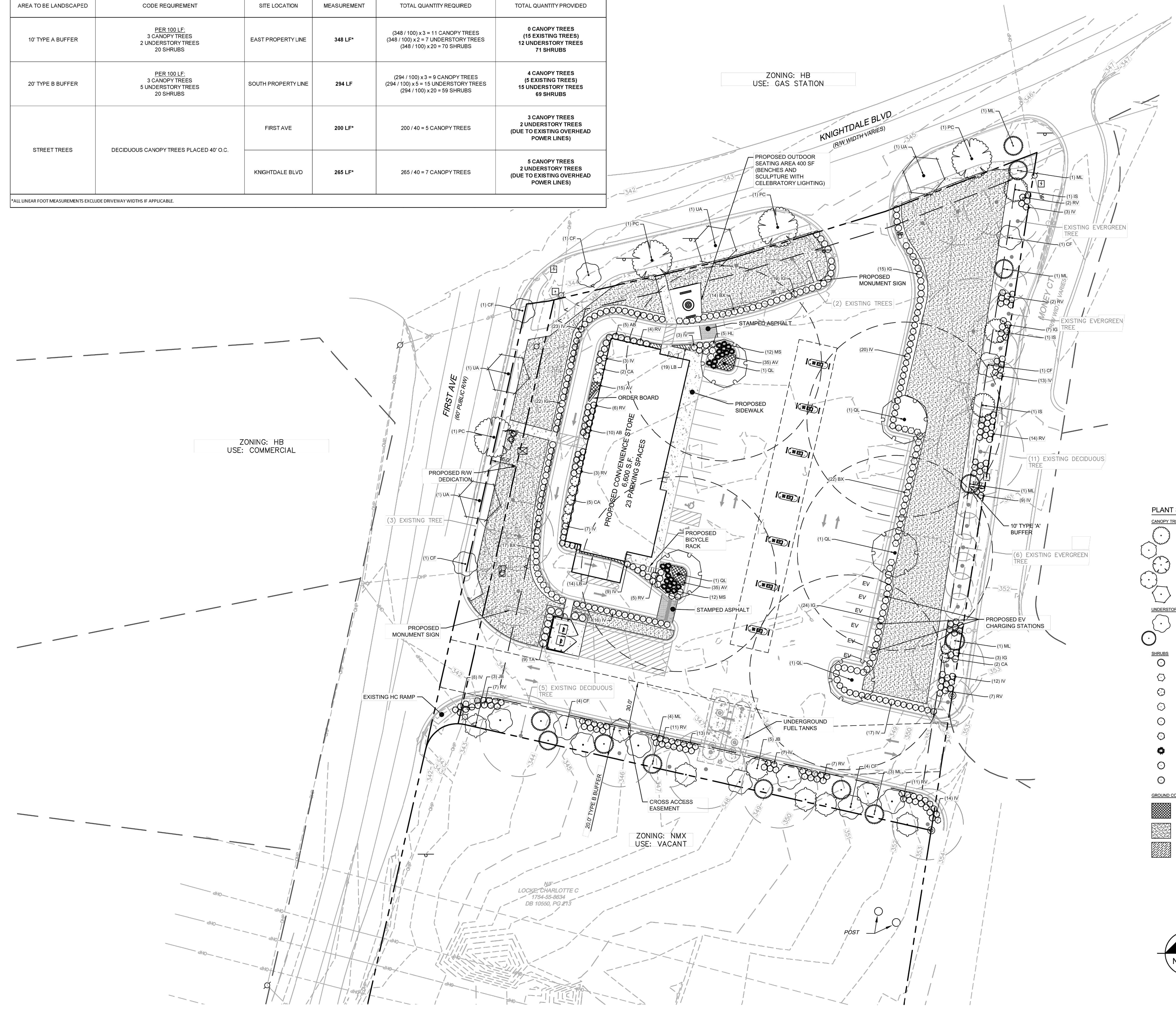
LANDSCAPE REQUIREMENTS & CALCULATIONS					
Town of Knightdale UDG					
AREA TO BE LANDSCAPED	CODE REQUIREMENT	SITE LOCATION	MEASUREMENT	TOTAL QUANTITY REQUIRED	TOTAL QUANTITY PROVIDED
10' TYPE A BUFFER	PER 100 LF: 3 CANOPY TREES 2 UNDERSTORY TREES 20 SHRUBS	EAST PROPERTY LINE	348 LF*	(348 / 100) x 3 = 11 CANOPY TREES (348 / 100) x 2 = 7 UNDERSTORY TREES (348 / 100) x 20 = 70 SHRUBS	0 CANOPY TREES (15 EXISTING TREES) 12 UNDERSTORY TREES 71 SHRUBS
20' TYPE B BUFFER	PER 100 LF: 3 CANOPY TREES 5 UNDERSTORY TREES 20 SHRUBS	SOUTH PROPERTY LINE	294 LF	(294 / 100) x 3 = 9 CANOPY TREES (294 / 100) x 5 = 15 UNDERSTORY TREES (294 / 100) x 20 = 59 SHRUBS	4 CANOPY TREES (6 EXISTING TREES) 15 UNDERSTORY TREES 69 SHRUBS
STREET TREES	DECIDUOUS CANOPY TREES PLACED 40' O.C.	FIRST AVE	200 LF*	200 / 40 = 5 CANOPY TREES	3 CANOPY TREES 3 UNDERSTORY TREES (DUE TO EXISTING OVERHEAD POWER LINES)
		KNIGHTDALE BLVD	265 LF*	265 / 40 = 7 CANOPY TREES	5 CANOPY TREES 2 UNDERSTORY TREES (DUE TO EXISTING OVERHEAD POWER LINES)

*ALL LINEAR FOOT MEASUREMENTS EXCLUDE DRIVEWAY WIDTHS IF APPLICABLE.

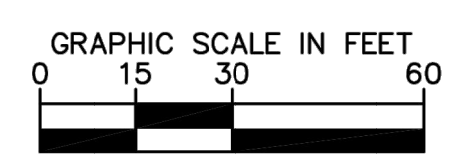
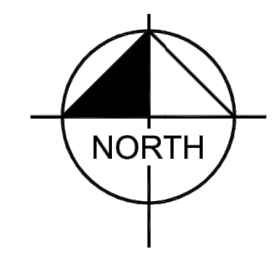
ZONING: HB
USE: GAS STATION

ZONING: HB
USE: COMMERCIAL

ZONING: NMX
USE: VACANT



PLANT SCHEDULE						
CANOPY TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	PLANTING HEIGHT
	IS	3	ILEX OPACA 'SATYR HILL'	SATYR HILL AMERICAN HOLLY	888	2" MIN. 8'-10' HT.
	JB	8	JUNIPERUS VIRGINIANA BRODIE'	BRODIE EASTERN REDCEDAR	888	2" MIN. 8'-10' HT.
	PC	4	PISTACIA CHINENSIS	CHINESE PISTACHE	888	2.5" MIN. 8'-10' HT.
	QL	5	QUERCUS LYRATA	OVERCUP OAK	888	2.5" MIN. 8'-10' HT.
	UA	4	ULMUS PARVIFOLIA 'ALLEE TM'	ALLEE LACEBARK ELM	888	2.5" MIN. 8'-10' HT.
UNDERSTORY TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	PLANTING HEIGHT
	CF	13	CERCIS CANADENSIS 'FOREST PANSEY'	FOREST PANSEY EASTERN REDBUD	888	2" MIN. 8'-10' HT.
	ML	12	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM DWARF SOUTHERN MAGNOLIA	888	2" MIN. 8'-10' HT.
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HT. SPACING
	AB	15	ABELIA X GRANDIFLORA 'ABELOPS'	SUNSHINE DAYDREAM GLOSSY ABELIA	3 GAL.	18" MIN. 48" o.c.
	BX	53	BUXUS SEMPERVIRENS 'ARCTIC EMERALD'	ARCTIC EMERALD BOXWOOD	3 GAL.	18" MIN. 48" o.c.
	CA	9	CAMELLIA JAPONICA 'APRIL DAWN'	APRIL DAWN CAMELLIA	3 GAL.	24" MIN. 72" o.c.
	HL	5	HYDRANGEA PANICULATA 'LIMELIGHT'	LIMELIGHT PANICLE HYDRANGEA	3 GAL.	24" MIN. 48" o.c.
	IG	90	ILEX GLABRA	INKBERRY HOLLY	3 GAL.	18" MIN. 48" o.c.
	IV	167	ILEX VOMITORIA	YALPON HOLLY	3 GAL.	18" MIN. 48" o.c.
	MS	24	MISCANTHUS SINENSIS 'ADAGIO'	ADAGIO EULALIA GRASS	3 GAL.	18" MIN. 48" o.c.
	RV	75	RHOODODENDRON VASEYI	PINKSHELL AZALEA	3 GAL.	18" MIN. 48" o.c.
	TA	9	THUNIA OCCIDENTALIS 'ART BOE TM'	NORTH POLE ARBORVITAE	888	48" MIN. 60" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SPACING
	AV	85	ANNUALS	ANNUALS	POT / FLAT	18" o.c.
	CH	17,344 SF	CYNODON DACTYLON '419 HYBRID'	BERMUDA GRASS	800	
	LB	33	LAVANDULA ANGSTUFOLIA 'BABY BLUE'	BABY BLUE ENGLISH LAVENDER	POT / FLAT	18" o.c.



NOTES:
1. FINAL PROPOSED PLANTING CONDITIONS ARE INTENDED TO BE SUPPLEMENTARY TO EXISTING PRESERVED VEGETATION. ANY CREDIT FOR EXISTING PRESERVED VEGETATION THAT COUNTS TOWARDS LANDSCAPE REQUIREMENTS WILL BE DEDUCTED FROM THE FINAL PLANTING PLAN PENDING FIELD VERIFICATION.

NO.	REVISIONS	DATE	BY

Kimley»Horn
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 421 FARETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601
 WWW.KIMLEY-HORN.COM

KHA PROJECT: 017311002
 DATE: 06/14/2022
 SCALE: AS SHOWN
 DESIGNED BY: AMF
 DRAWN BY: AMF
 CHECKED BY: COB

PRELIMINARY LANDSCAPE PLAN

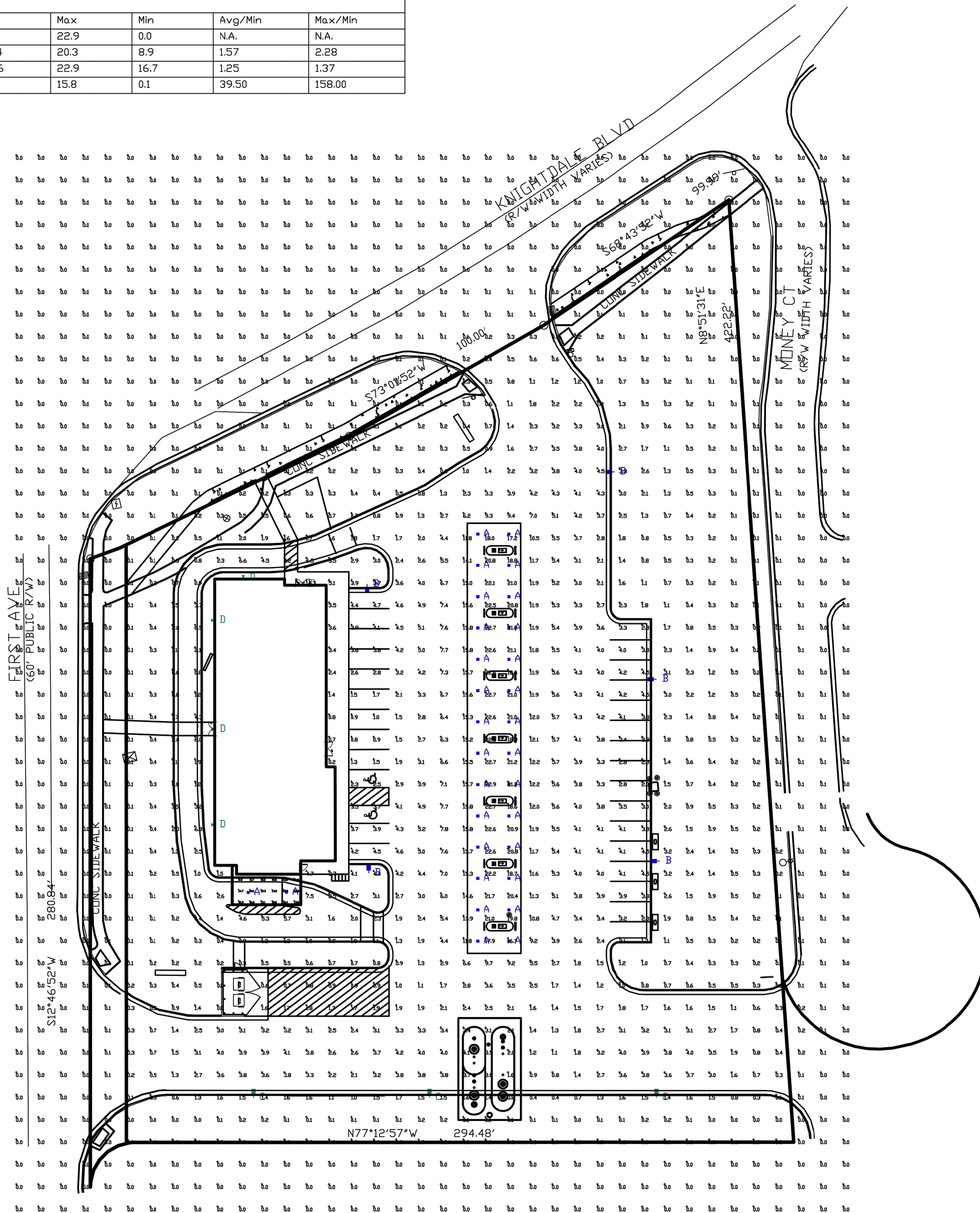
EP MART KNIGHTDALE
 PREPARED FOR EASTERN PETROLEUM CORPORATION
 KNIGHTDALE, NC
 SHEET NUMBER PLP-1

PRELIMINARY
NOT FOR CONSTRUCTION

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Symbol	Qty	Label	Arrangement	Description	LLD	LDD	LLF	Arr. Lum. Lumens	Arr. Watts	BUG Rating
	30	A	SINGLE	CRUS-SC-SLW-50 MTD @ 15' GAS, 10' PAY CANDPY	1.000	1.000	1.000	5955	38	B2-U0-G1
	5	B	SINGLE	MRS-LED-18L-SIL-FT-50-70CRI-SINGLE-22'POLE+2'BASE	1.000	1.000	1.000	16890	135	B2-U0-G2
	3	C	SINGLE	MRS-LED-18L-SIL-FT-50-70CRI-IL-SINGLE-22'POLE+2'BASE	1.000	1.000	1.000	10931	135	B1-U0-G2
	5	D	SINGLE	XWS-LED-03L-FTW-50-80CRI MTD @ 10'	1.000	1.000	1.000	3793	26	B1-U0-G1

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL_CALC_POINTS	Illuminance	Fc	1.66	22.9	0.0	N.A.	N.A.
PAY_CANDPY	Illuminance	Fc	13.94	20.3	8.9	1.57	2.28
CANDPY	Illuminance	Fc	20.86	22.9	16.7	1.25	1.37
INSIDE_CURB	Illuminance	Fc	3.95	15.8	0.1	39.50	158.00



**PHOTOMETRIC EVALUATION
NOT FOR CONSTRUCTION**

Based on the information provided, all dimensions and luminaire locations 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/LEDs 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 document for ordering product.

Total Project Watts
Total Watts = 2350



LIGHTING PROPOSAL LD-155813

EP MART
NIGHTDALE BLVD & FIRST AVE
NIGHTDALE, NC

DATE: 06/27/2022 REV: SHEET 1 OF 1

SCALE: 1"=30'

0 30

No.	REVISIONS	DATE	BY

Kimley-Horn
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#F-0102

KHA PROJECT
017311002
DATE
06/27/2022
SCALE AS SHOWN
DESIGNED BY XXX
DRAWN BY XXX
CHECKED BY XXX

LIGHTING PLAN

EP MART #10
PREPARED FOR
EP MART
TOWN OF
KNIGHTDALE
NORTH CAROLINA

SHEET NUMBER
11.0

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Prepared By: _____ Date: _____ Type: _____

Scottsdale® Legacy (CRUS) LED Canopy Luminaire



OVERVIEW	
Lumen Package	5,000 - 22,000
Wattage Range	38 - 152
Efficacy Range (LPW)	114 -156
Weight (lbs/kg)	23 (10.4)

FEATURES & SPECIFICATIONS

- Construction**
- Features an ultra-slim 1 1/16" profile die-cast housing, with flat clear tempered glass lens. Unit is water-resistant, sealed and IP66 rated. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.
 - Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.
 - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.
- Optical System**
- Features an array of select, mid-power, high brightness, high efficiency LED, 3000K, 4000K, 5000K color temperature, 80 CRI (nominal).
 - Choice of Symmetric or Asymmetric distribution. Asymmetric provides a wider distribution pattern.
 - Six Lumen Packages: 5,000, 9,000, 10,000, 13,000, 18,000 and 22,000 Lumens.
- Electrical**
- High performance factory programmable driver features over-voltage, under voltage, short-circuit and over temperature protection with integral 6kV surge protection that meets IEEE C62.41.2 and ANSI C82.77-5 Location Category C Low standards. Custom lumen and wattage packages available.
 - Additional field replaceable 10kV surge protection device that meets a minimum

QUICK LINKS

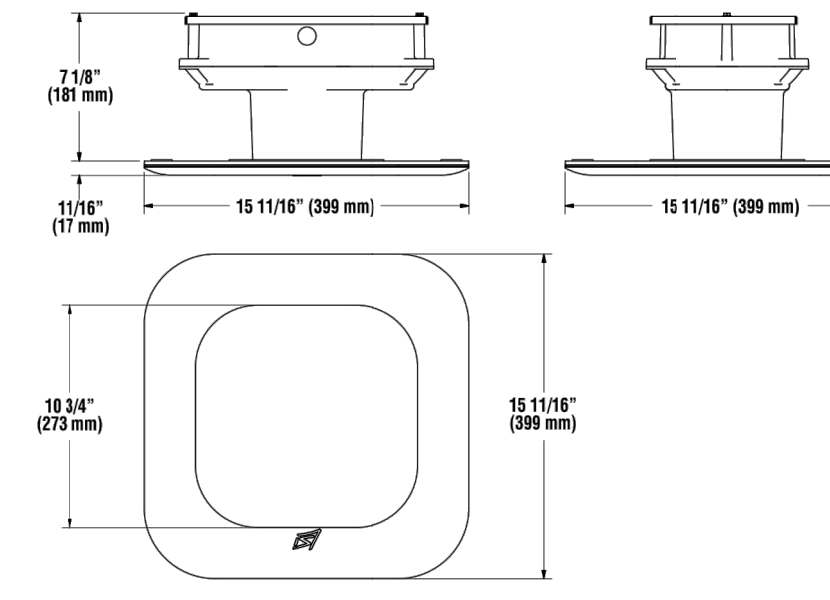
- Ordering Guide
- Performance
- Photometrics
- Dimensions

- Category C Low operation (per ANSI/IEEE C62.41.2) is standard.
- Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.
 - Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and acts as the primary heatsink ensuring cool operation of internal components for longer life. Seals to optical housing via one-piece molded silicone gasket.
 - Universal voltage power supply, 120-277 VAC, 50/60 HZ and 347-480 VAC, 50/60 HZ input.
 - 40°C to 55°C (-40°F to 131°F) ambient operating temperature. (Varies based on lumen package and mounting style see performance data for specifics.)
 - Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location (see performance data for specifics.)
- Hazardous Location**
- Designed for lighter than air fuel applications. Product is suitable for Class 1 Divisions 2 only when properly installed per LSI installation instructions. See lscorp.com for specific guidance. Not available on SLW packages available.
 - One-person installation.
 - Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit.
 - Retro panels are available for existing Encores as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.
- Warranty**
- LSI LED fixtures carry a 5-year warranty (contact your LSI representative for extended warranty options).
- Listings**
- UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.
 - DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
 - Meets Buy American Act requirements.
 - IDA compliant with 3000K or lower color temperature.

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PRODUCT DIMENSIONS



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Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

Scottsdale® Legacy LED Canopy Luminaire (CRUS) ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: CRUS SC LED SS 50 UE WHT

Prefix	Distribution	Light Source	Drive Current	Color Temp	Input Voltage	Finish	Options
CRUS - LED Canopy Luminaire	SC - Symmetric AC - Asymmetric	LED	SLW - Super Low Watt VLW - Very Low Watt LW - Low Watt SS - Super Saver HW - High Output VHO - Very High Output Custom Lumen Packages*	50 - 5,000K 40 - 4,000K 30 - 3,000K	UE - Universal Voltage (120 - 277V) HW - High Voltage 347 - 480V	WHT - White BRZ - Bronze BLK - Black	HL - Hazardous Location

FOOTNOTES:
1. AC circuit utilizes a reflector which alters the beam from a standard SC distribution.
2. Not available on SLW.
3. Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed.

Accessory Ordering Information (Accessories are field installed)

Description	Order Number	Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRUS, for 16" Deck Panel	529846	Retrofit RIG Cover Panel Blank (no holes)	354702
Retrofit Panels - ECTA / SCF to CRUS, for 12" Deck Panel	530281	KIT - Hole Plugs and Silicons (enough for 25 retrofits)	1305640
Retrofit 2x2 Cover Panel Blank (no holes)	352982		

1 - Consists of (25) 7/8" hole plugs, (100) 5/16" hole plugs and (1) tube of RTV Back to Quick Links

PERFORMANCE

DELIVERED LUMENS

Lumen Package	Distribution	3000K CCT		4000K CCT		5000K CCT		Wattage			
		Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy				
VHO	SC	21301	140	84-00-02	21835	144	84-00-02	22897	150	84-00-02	152
	AC	17988	114	83-00-03	17798	137	83-00-03	18662	122	83-00-03	
HD	SC	17889	143	83-00-01	18346	146	83-00-02	19071	152	84-00-02	125
	AC	14582	116	83-00-02	14955	119	83-00-02	15546	124	83-00-02	
SS	SC	13113	141	83-00-01	13449	144	83-00-01	13980	150	83-00-01	93
	AC	11468	129	83-00-02	11761	126	83-00-02	12226	131	83-00-02	
LW	SC	10427	144	83-00-01	10724	148	83-00-01	11148	154	83-00-01	73
	AC	9145	126	82-00-02	9379	129	82-00-02	9749	134	82-00-02	
VW	SC	8783	146	83-00-01	9008	149	83-00-01	9364	155	83-00-01	60
	AC	7681	127	82-00-01	7978	131	82-00-01	8189	136	82-00-01	
SLW	SC	586	146	83-00-01	594	148	83-00-01	594	148	83-00-01	38
	AC	484	128	81-00-01	5009	131	81-00-01	5207	136	81-00-01	

LEDs are frequently updated therefore values are nominal.

ELECTRICAL DATA (AMPS)

Lumen Package	Wattage	120V	208V	240V	277V	347V	480V
VHO	152	1.27	0.73	0.64	0.55	0.44	0.32
HD	124	1.03	0.6	0.52	0.45	0.36	0.26
SS	92	0.77	0.44	0.38	0.33	0.27	0.19
LW	72	0.6	0.35	0.3	0.26	0.21	0.15
VW	60	0.5	0.29	0.25	0.22	0.17	0.13
SLW	38	0.32	0.18	0.16	0.14	0.11	0.08

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

OPERATING TEMPERATURE

Lumen Package	Mounting	Max
VHO	Metal/Wood Canopy	45C
HD	Metal/Wood Canopy	45C
SS	Metal/Wood Canopy	55C

Recommended Lumen Maintenance* CRUS VHO

Ambient Temp C	Initial l	25k hr ¹	50k hr ¹	75k hr ¹	100k hr ¹
0°C	100%	97%	92%	89%	84%
10°C	100%	97%	92%	89%	84%
20°C	100%	97%	92%	89%	84%
25°C	100%	97%	92%	89%	84%
30°C	100%	97%	92%	89%	84%
40°C	101%	95%	90%	87%	82%
50°C	101%	94%	89%	85%	78%

Recommended Lumen Maintenance* CRUS SS

Ambient Temp C	Initial l	25k hr ¹	50k hr ¹	75k hr ¹	100k hr ¹
0°C	100%	97%	92%	89%	84%
10°C	100%	97%	92%	89%	84%
20°C	100%	97%	92%	89%	84%
25°C	100%	97%	92%	89%	84%
30°C	100%	97%	92%	89%	84%
40°C	100%	97%	92%	89%	84%
50°C	101%	95%	91%	88%	82%

*Time duration that are within six times (5X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED.

1 - In accordance with IESNA TM-21-11, Calculator 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.

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Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

Mirada Small Area (MRS) Outdoor LED Area Light



OVERVIEW

Lumen Package	6,000 - 24,000
Wattage Range	41 -196
Efficacy Range (LPW)	112 -156
Fixture Weight lbs (kg)	20 (9.1)

QUICK LINKS

- Ordering Guide
- Performance
- Photometrics
- Dimensions

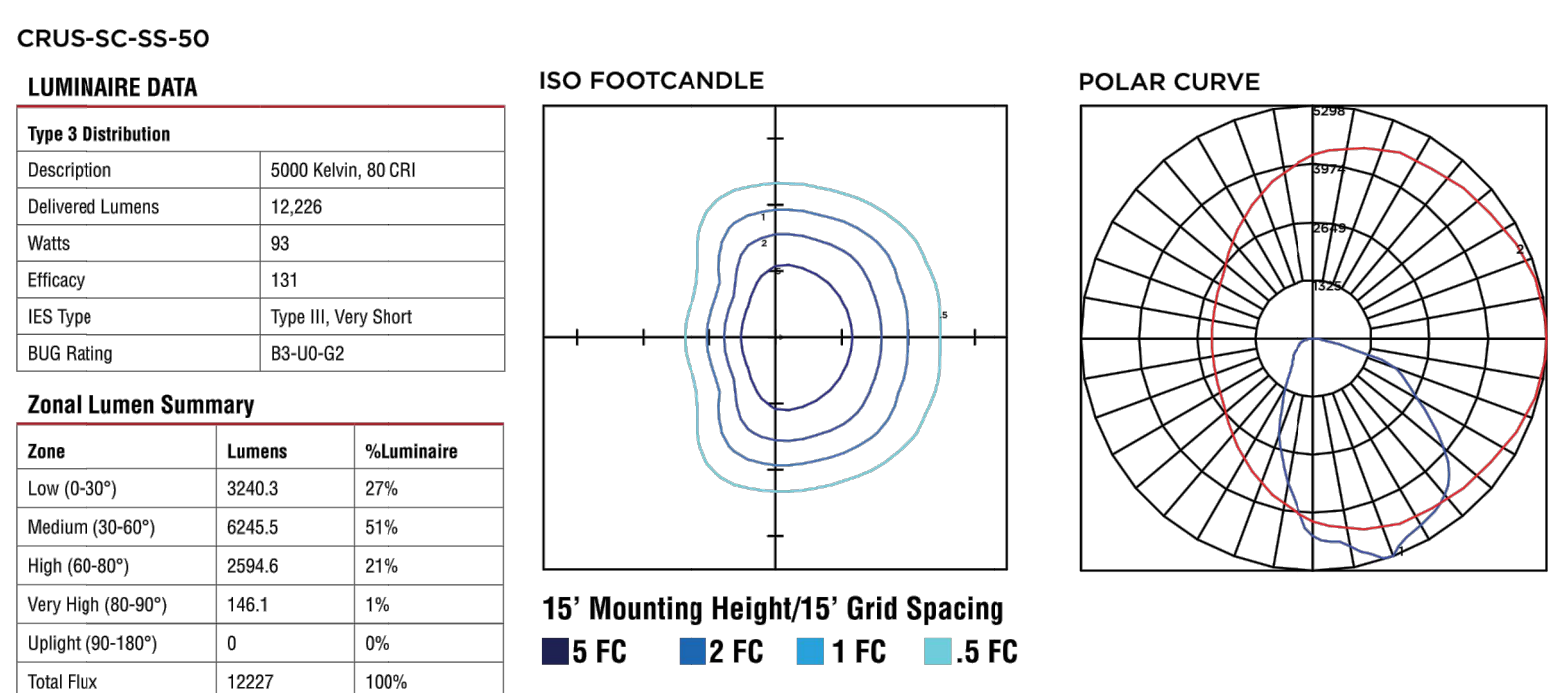
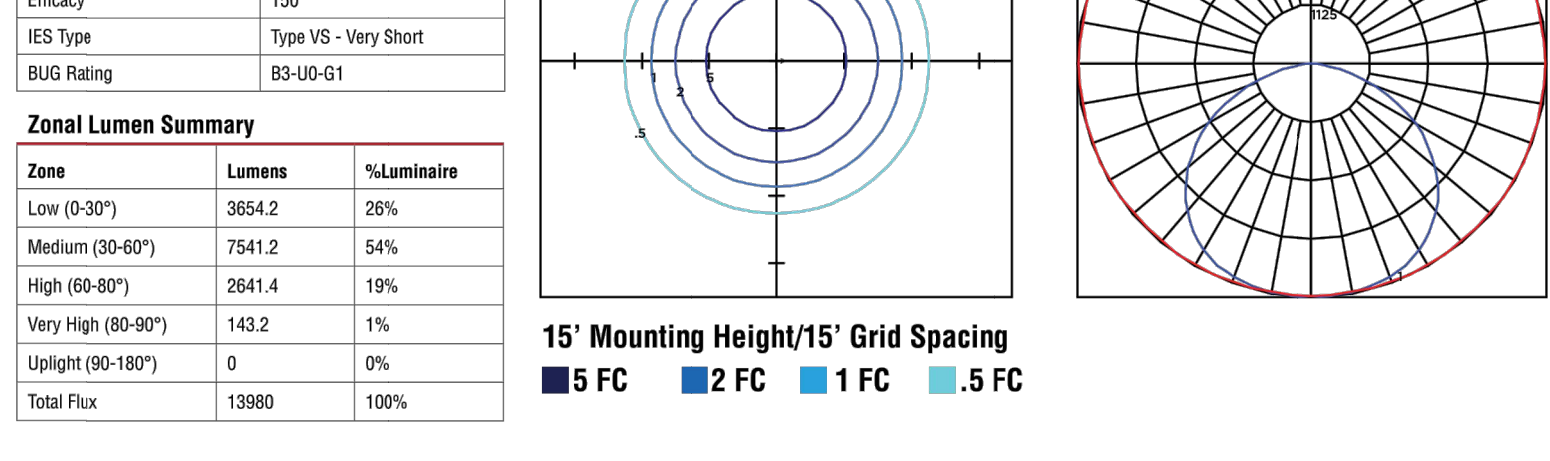
- Construction**
- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Shipping weight: 27 lbs in carton.
- Optical System**
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 5W, and FT.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 95%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70.
 - Integral louver (L) and house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.
- Electrical**
- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
 - 0-10V dimming (10% - 100%) standard.
 - Standard Universal Voltage (120-277 VAC) input 50/60 Hz or optional High Voltage (347-480 VAC).
 - L70 Calculated Life: >60k Hours
 - Total harmonic distortion: <20%
 - Operating temperature: -40°C to +50°C (-40°F to +122°F).
 - Power factor: >.90
 - Input power stays constant over life.
 - Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
 - High-efficiency LEDs mounted to metal-core circuit board to maximize heat dissipation driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Controls**
- Optional integral passive infrared Bluetooth™ motion and photo cell sensor. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.
- Installation**
- Designed to mount to square or round poles.
 - A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
 - Included terminal block accepts up to 12 ga. wire.
 - Utilizes LSI's traditional B3 drill pattern.
- Warranty**
- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lscorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
- Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant; with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - Suitable for wet locations.
 - IP66 rated Luminaire per IEC 60598-1.
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 61626 mechanical impact code
 - DesignLights Consortium® Listings in progress.
- Specifications and dimensions subject to change without notice.

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Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

Scottsdale® Legacy LED Canopy Luminaire (CRUS) PHOTOMETRICS

Luminaire photometry has been conducted by an 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.



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Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

Mirada Small Area Light (MRS) ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: MRS LED 18L SIL FT UNV DIM 40 70CRI ALBGS1 BLK IH

Luminaire Prefix	Light Source	Lumen Package	Lens	Distribution	Orientation ¹	Voltage	Driver
MRS - Mirada Small Area Light	LED	18L - 6,000 lms 12L - 12,000 lms 10L - 15,000 lms 18L - 18,000 lms 21L - 21,000 lms 24L - 24,000 lms Custom Lumen Packages*	SIL - Silicone	2 - Type 2 3 - Type 3 5W - Type 5 Wide FT - Forward Throw	(Blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	UNV - Universal Voltage (120-277V) HW - High Voltage (347-480V)	DIM - 0-10V Dimming (0-10%)

Color Temp	Color Rendering	Controls (Choose One)	Finish	Options
50 - 5,000 CCT	70CRI - 70 CRI	(Blank) - None Wireless Controls System: ALSC - AirLink Symplex Control System ALSCS - AirLink Symplex Control System with 12-20 MHz Motion Sensor ALSCSA - AirLink Symplex Control System with 20-40 MHz Motion Sensor ALBGS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24 MHz) ALBGS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-47 MHz)	BLK - Black BRZ - Dark Bronze CMG - Gun Metal Gray GFP - Graphite MSV - Metallic Silver PLP - Platinum Plus SVC - Satin Verde Green WHT - White	(Blank) - None IH - Integral HouseSide Shield ² IL - Integral Louver (Sharp Spill Light Cutoff) ³

Accessory Ordering Information⁴

Controls Accessories		Mounting Accessories	
Description	Order Number	Description	Order Number ⁶
Twist Lock PhotoCell (120V) for use with CR7P	122514	Universal Mounting Bracket	664616CLR
Twist Lock PhotoCell (208-277) for use with CR7P	122515	Adjustable Slip Filter (2" - 2 3/8" Tenon)	66813BCLR
Twist Lock PhotoCell (347V) for use with CR7P	122516	Horizontal Slip Filter (2" - 2 3/8" Tenon)	652761CLR
Twist Lock PhotoCell (480V) for use with CR7P	1225180	Quick Mount Pole Bracket (Square Pole)	687073CLR
AirLink 5 Pin Twist Lock Controller	661409	Quick Mount Pole Bracket (4.5" Round Pole)	689903CLR
AirLink 5 Pin Twist Lock Controller	661410	15 Tilt Quick Mount Pole Bracket (Square Pole)	689003CLR
Pole-Mounted Occupancy Sensor (24V)	663284CLR ⁵	15 Tilt Quick Mount Pole Bracket (4.5" Round Pole)	689905CLR
Shorting Cap for use with CR7P	148328	Wall Mount Bracket	382132CLR

Fusing Options⁵

Description	Order Number
Single Fusing (120V)	763446
Single Fusing (277V)	763446
Double Fusing (208V, 240V)	763446
Double Fusing (480V)	763446
Double Fusing (347V)	763446

See Fusing Accessory Guide

Shielding & Miscellaneous Accessories

Description	Order Number
Integral Louver/Shield	763446
Integral HouseSide Shield	763446
10° Louver Bird Spike Kit (2 Recommended per Luminaire)	763446

FOOTNOTES:
1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available on "Type 5W" distribution.
3. Control device or shorting cap must be ordered separately. See Accessory Ordering information.
4. IMBST is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
5. Accessories are shipped separately and field installed.
6. "CLR" denotes finish. See Finish options.
7. Fusing must be located in hand hole of pole. See Fusing Accessory Guide for compatibility.

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