

*ROSE MARINA
SITE DEVELOPMENT PLAN (SDP)*

INDEX OF LIGHTING PLANS

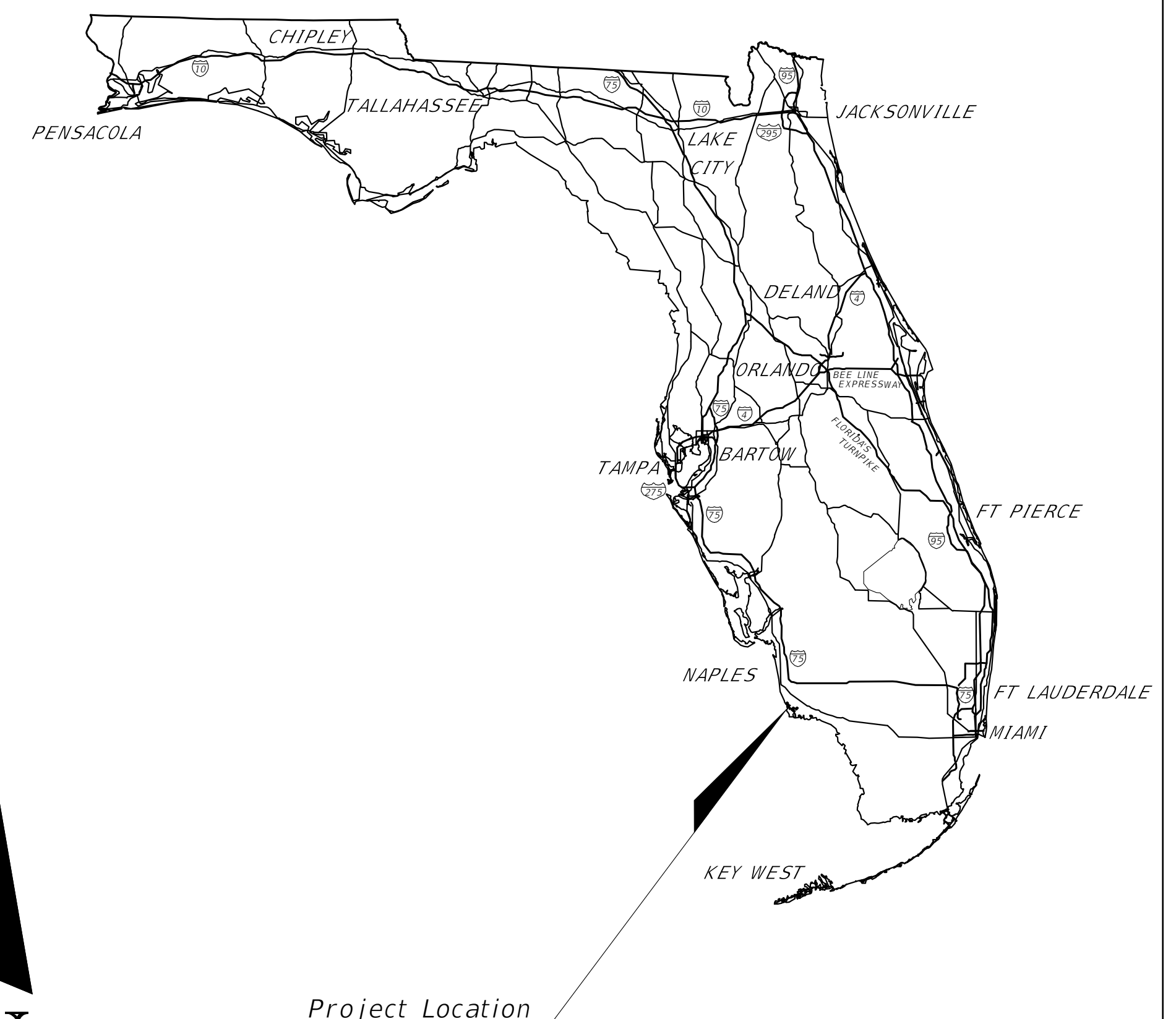
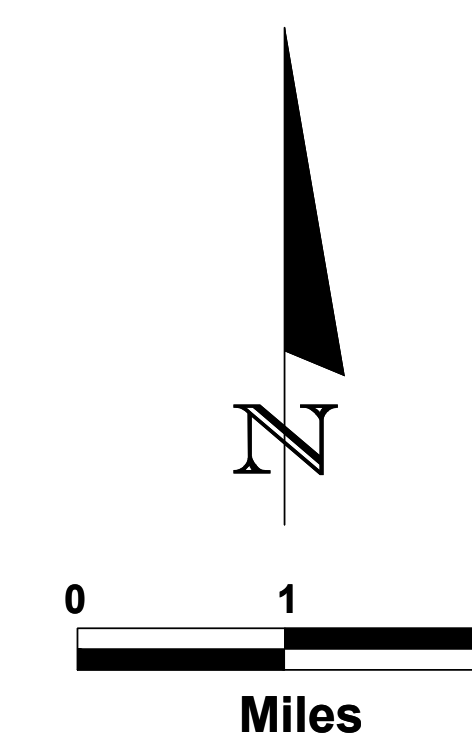
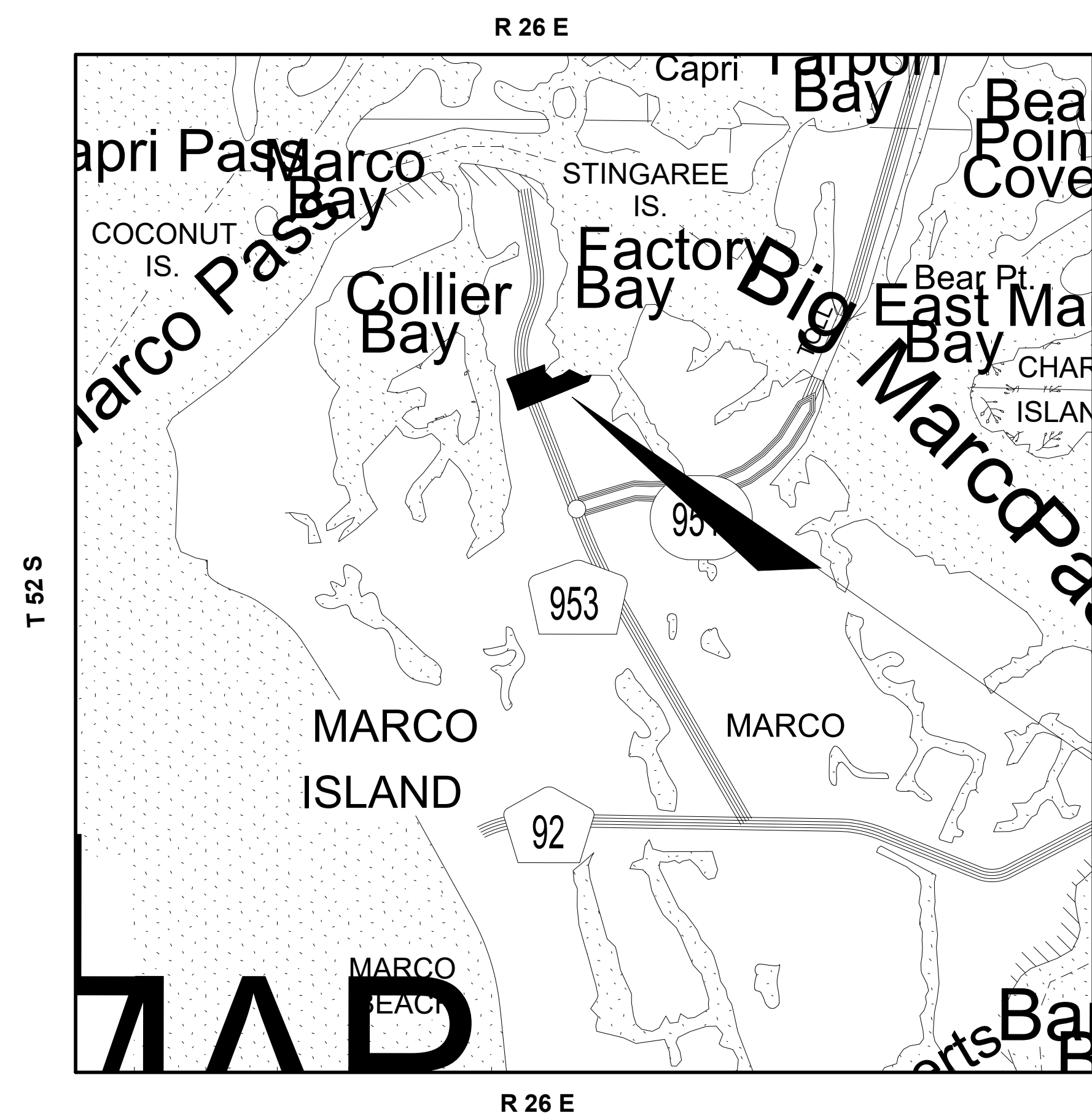
SHEET NO.	SHEET DESCRIPTION
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L-4	WALKWAY CROSSING PHOTOMETRIC PLAN
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HAGAN
ENGINEERING

GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2025-26 STANDARD
PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE
INTERIM REVISIONS (IRS).

STANDARD PLANS FOR BRIDGE CONSTRUCTION ARE INCLUDED IN THE STRUCTURES PLANS COMPONENT.

**COLLIER COUNTY TRAFFIC OPERATIONS
SIGNALIZATION TECHNICAL SPECIAL PROVISIONS (TSP)
DATED FEBRUARY, 2022.**

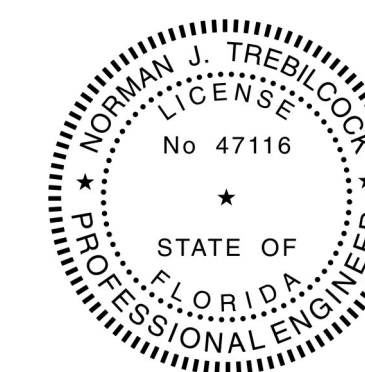


PLANS PREPARED BY:



NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

ISSUE FOR PERMIT DATE: 06-27-2024



Digitally signed by Norman Trebilcock
DN: c=US, st=Florida, o=Trebilcock
Consulting Solutions, PA,
sn=Trebilcock, givenName=Norman,
cn=Norman Trebilcock,
email=ntrebilcock@trebilcock.biz
Date: 2025.11.14 15:47:21 -05'00'

ROADWAY PLANS
ENGINEER OF RECORD: NORMAN TREBILCOCK, AICP, PTOE, PE

P.E. NO.: 47116

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<i>FISCAL YEAR</i>	<i>SHEET NO.</i>
25	L-1

EXAMPLE LIGHTING FIXTURE SCHEDULE

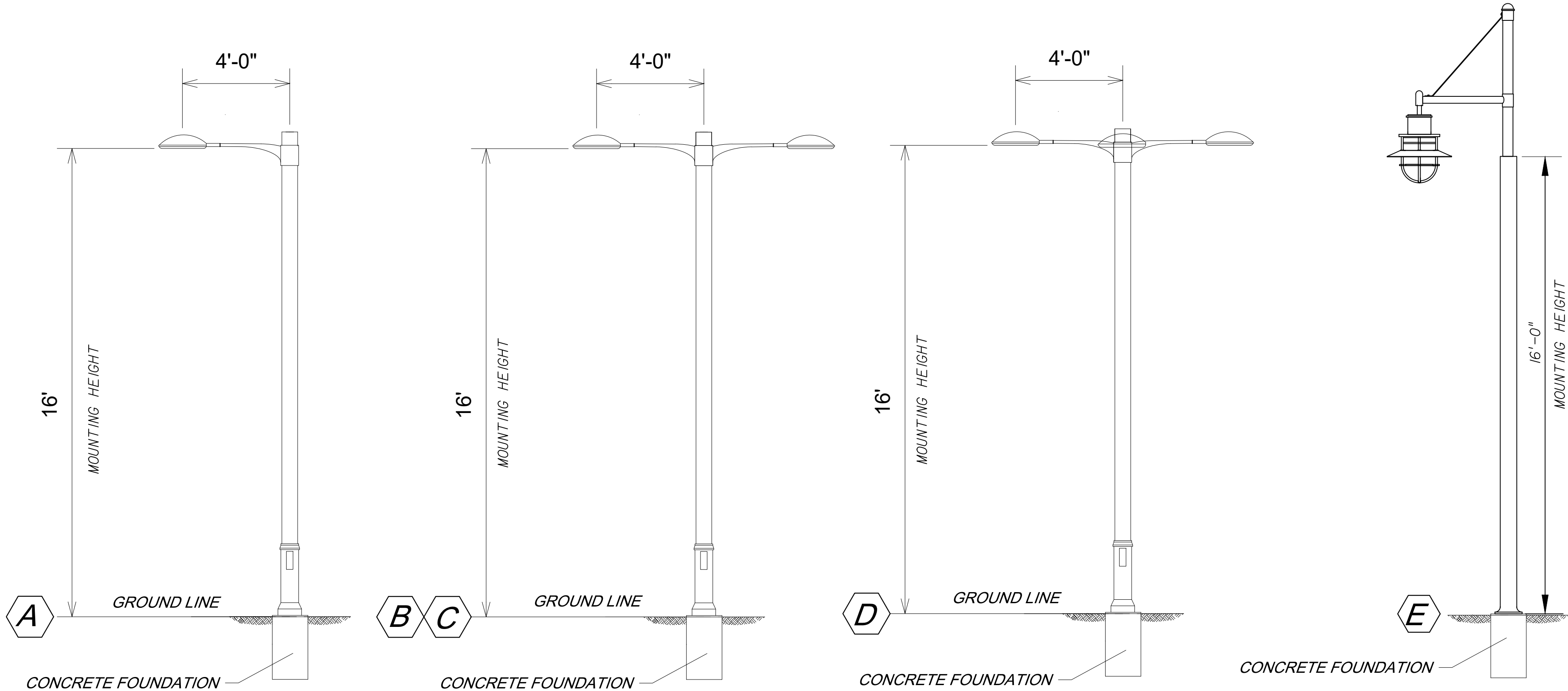
	MANUFACTURER	ORDER INFORMATION						
		QTY	LAMP	LUMINAIRE CATALOG NUMBER	*	VOLTAGE	MOUNTING	REMARKS
A	LUMCA	34	54 LED	CPG0401 54LED05 90W 40K L3FL 120	**	208V	POLE	LUMCA CONCEPT SERIES WITH FLAT GLASS WITH INDIVIDUAL LED LENS OPTICS AND CLEAR FLAT GLASS LENS.THREE LED BOARDS (18 WHITE LEDS EACH). LUMEN OUTPUT = 8140 LMS. MOUNTED ON ALUMINUM POLE WITH CONCRETE FOUNDATION. WITH A 16' OVERALL MH. DARK SKY COMPLIANT.
B	LUMCA	10	18 LED	CPG0401 18LED05 30W 40K L3FL 120	**	208V	POLE	LUMCA CONCEPT SERIES DOUBLE (2) FIXTURE WITH FLAT GLASS WITH INDIVIDUAL LED LENS OPTICS AND CLEAR FLAT GLASS LENS.ONE LED BOARD (18 WHITE LEDS EACH). LUMEN OUTPUT = 2714 LMS. MOUNTED ON ALUMINUM POLE WITH CONCRETE FOUNDATION. WITH A 16' OVERALL MH. DARK SKY COMPLIANT.
C	LUMCA	1	48 LED	CPG0401 48LED05 80W 40K L4 120	**	208V	POLE	LUMCA CONCEPT SERIES DOUBLE (2) FIXTURE WITH FLAT GLASS WITH INDIVIDUAL LED LENS OPTICS AND CLEAR FLAT GLASS LENS.(8 CLUSTERS OF 6 LUXEON TX LED'S) WHITE 80W SSL C/W INVENTRONICS DRIVER EUD-150S105DTA 150W @ 120.00V MOUNTED ON ALUMINUM POLE WITH CONCRETE FOUNDATION. WITH A 16' OVERALL MH. DARK SKY COMPLIANT.
D	LUMCA	1	18 LED	CPG0401 18LED05 30W 40K L3FL 120	**	208V	POLE	LUMCA CONCEPT SERIES TRIPLE (3) FIXTURE WITH INDIVIDUAL LED LENS OPTICS ONE LED BOARD (18 WHITE LEDS EACH). LUMEN OUTPUT = 2714 LMS. EACH FIXTURE. MOUNTED ON ALUMINUM POLE WITH CONCRETE FOUNDATION. WITH A 16' OVERALL MH. DARK SKY COMPLIANT.
E	SIGNIFY LUMEC	2	42 LED	CAND1-65W42LED3K-G2-C-RLE5		208V	POLE	CANDELA WITH ECOSWAP LED (CAND1), 42 LED'S, 3000K CCT, TYPE RLE5 OPTIC, CLEAR GLOBE MOUNTED ON ALUMINUM POLE WITH CONCRETE FOUNDATION. WITH A 16' OVERALL MH. DARK SKY COMPLIANT.

* OR EQUAL PER ALTERNATIVE MANUFACTURER

** FIXTURE COLOR (XX) TO BE DETERMINED LATER. CONTRACTOR SHALL MEET OWNER TO DISCUSS LENS AND FOUNDATION TYPE

GENERAL ELECTRICAL NOTES:

- ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL CODES AND ORDINANCES GOVERNING ELECTRICAL SYSTEMS.
- CONTRACTOR SHALL VERIFY LOCATION OF PROPOSED UTILITIES, AND IRRIGATION SLEEVES PRIOR TO DRILLING POLE FOUNDATION. MINOR POLE LOCATION MODIFICATIONS MAY BE MADE BY CONTRACTOR IN THE FIELD TO AVOID CONFLICTS. MAJOR POLE LOCATION MODIFICATIONS SHALL BE APPROVED BY ENGINEER OF RECORD.
- PRIOR TO PURCHASING ELECTRICAL EQUIPMENT, SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
- UPON COMPLETION OF THE PROJECT CONTRACTOR SHALL SUPPY OWNER ONE SET OF AS-BUILT SHOP DRAWINGS, SHOWING INSTALLED ELECTRICAL INSTALLATION.
- FUSE HOLDERS (BUSSMAN TRON IN-LINE FUSE HOLDER W/ FNM 5 AMP SLOW BLOW FUSE OR EQUAL), SURGE PROTECTORS (HUNT ENTERPRISES IN-LINE TYPE OR EQUAL) AND GROUND RODS (5/8" X 10", COPPER CLAD, MEASURED 25 OHMS OR LESS) SHALL BE PROVIDED AT EACH LIGHT POLE FIXTURE BASE.
- PULL BOXES SHALL BE IN-GROUND TYPE CARSONS 1419-48 BOLTDOWN T COVER (OR EQUAL)
- CONTRACTOR TO SUPPLY ENGINEERED DESIGN OF FIXTURE, POLE & FOUNDATION SEALED BY FLORIDA STRUCTURAL ENGINEER TO THE REQUIRED DESIGN WIND SPEED.
- SIX (6) FT MINIMUM CLEAR ZONE FROM THE STREET LIGHT POLES TO THE EDGE OF PAVEMENT OF LOCAL STREETS IS REQUIRED. FOUR (4) FT MINIMUM CLEAR ZONE WHERE THERE IS RAISED CURB (FROM FACE OF CURB TO POLE FACE).
- ALL PROPOSED LIGHTING SOURCES (TYPE A, B, AND C LED) WITH A GREATER THAN 50 WATT EQUIVALENCY SHALL BE SHIELDED IN SUCH A MANNER THAT NO LIGHT EMITTED FROM THE LIGHT SOURCE SHALL TRAVEL UPWARD OR HORIZONTALLY. IN ADDITION, THE DOWNWARD LIGHT SOURCES SHALL BE SO DIRECTED THAT THE CONE OF LIGHT EMITTED FROM THE SOURCE OF ILLUMINATION SHALL NOT EXCEED AN INCLUDED ANGLE OF 90 DEGREES.

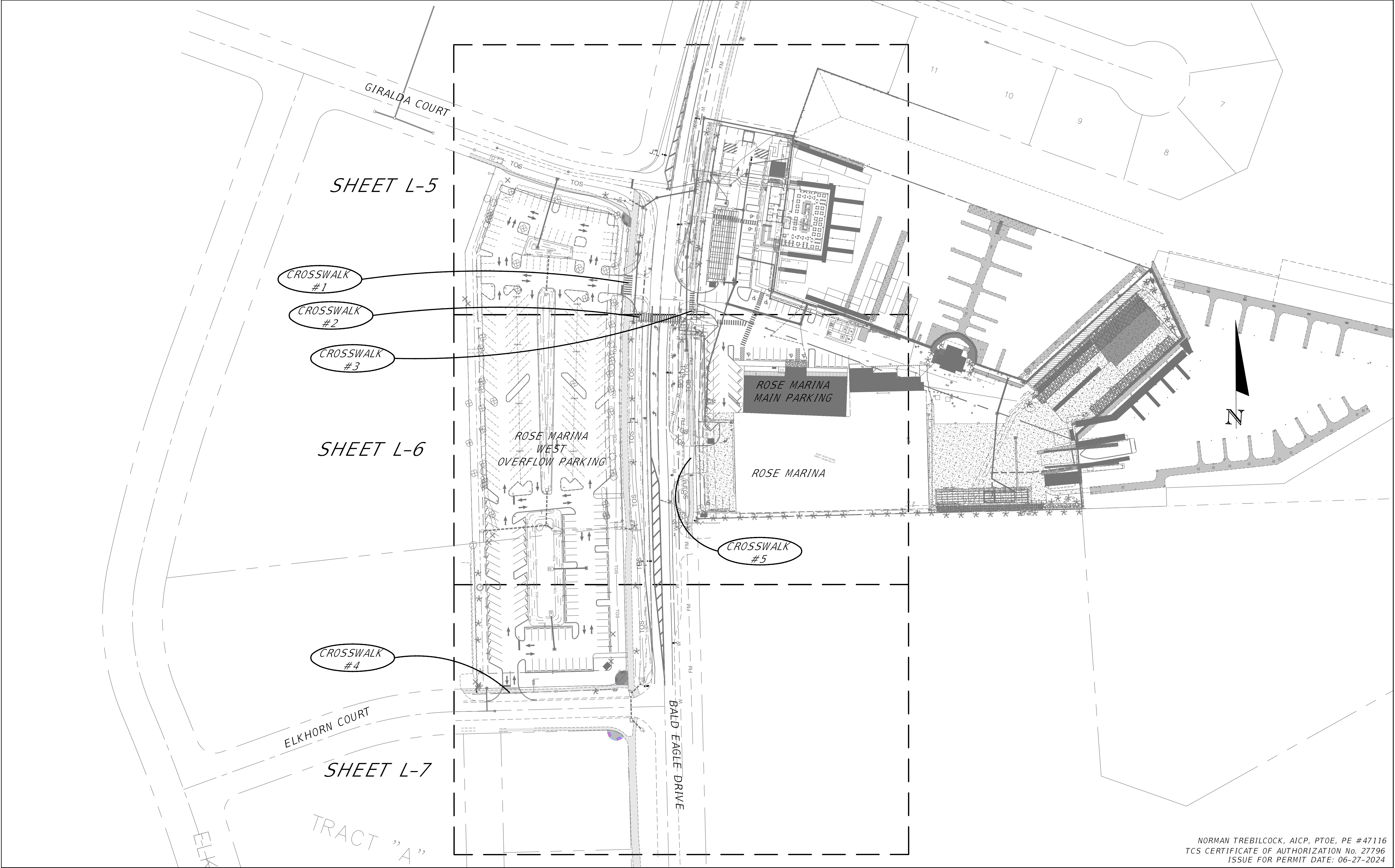


NORMAN TREBILCOCK, AICP, PTOE, PE #47116
TCS CERTIFICATE OF AUTHORIZATION No. 27796
ISSUE FOR PERMIT DATE: 06-27-2024

REVISIONS				TREBILCOCK CONSULTING SOLUTIONS 2800 DAVIS BLVD SUITE 200 NAPLES FL 34104	ROSE MARINA SITE DEVELOPMENT PLAN (SDP)			FIXTURE SCHEDULE AND NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
11/14/25	REVISED BASE				NA	COLLIER	NA		L-2

SUSERS

\$DATE\$\\Operations\\Projects\\2 City \\Map\\Island\\Rose Marina\\SDPA--2025\\Rose marina 11-14-25-24x36.dwg



NORMAN TREBILCOCK, AICP, PTOE, PE #47116
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REVISIONS			
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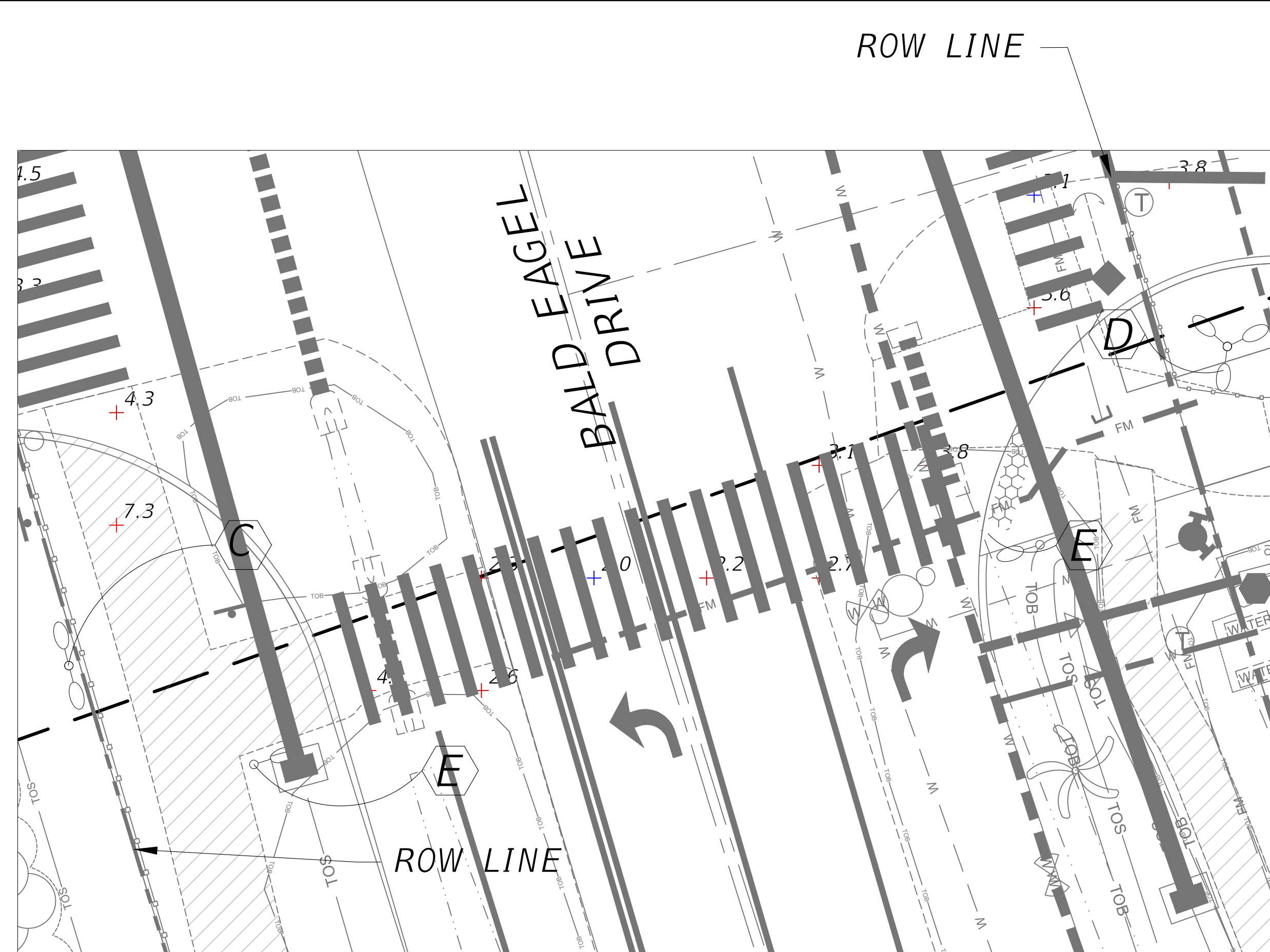
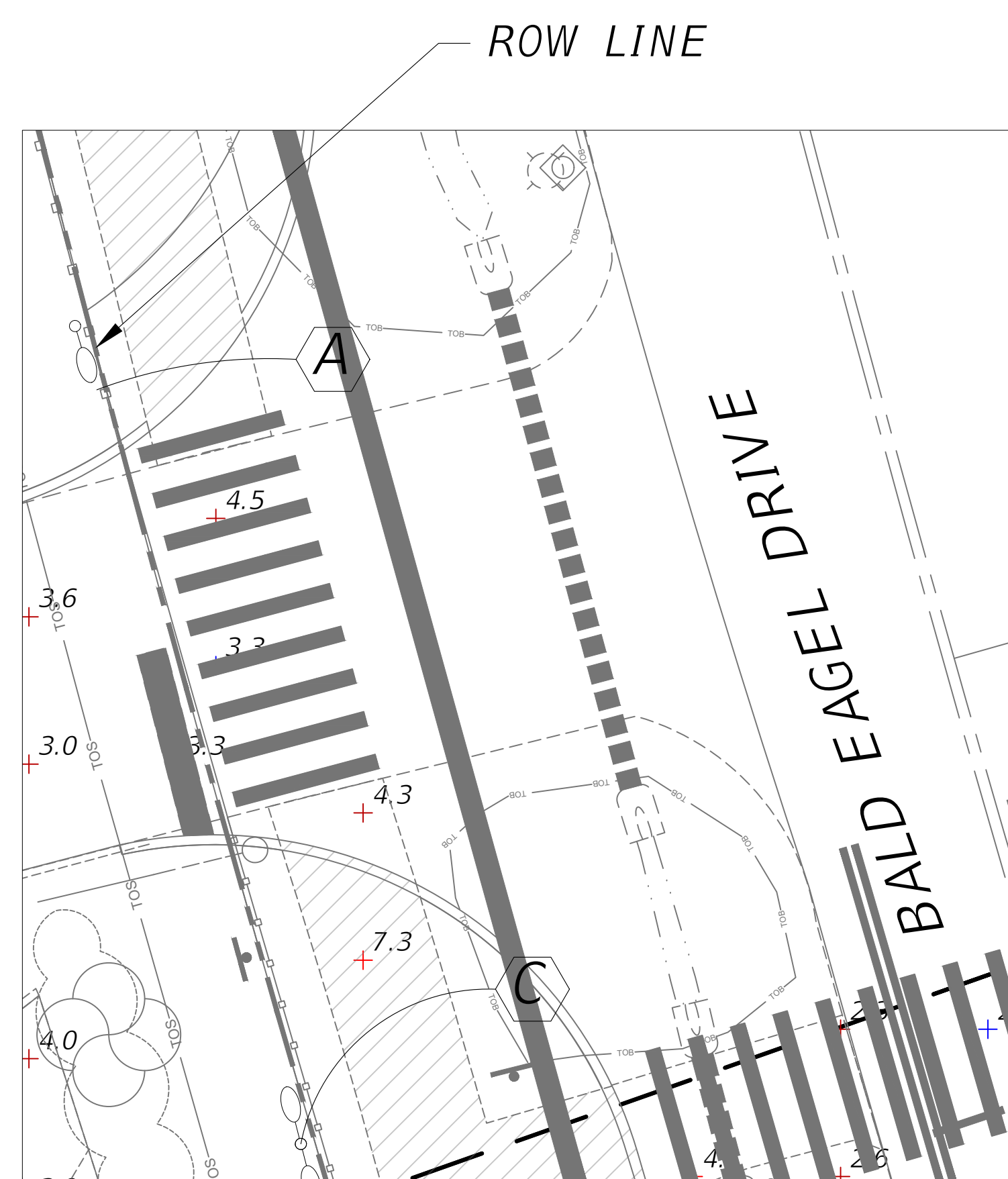


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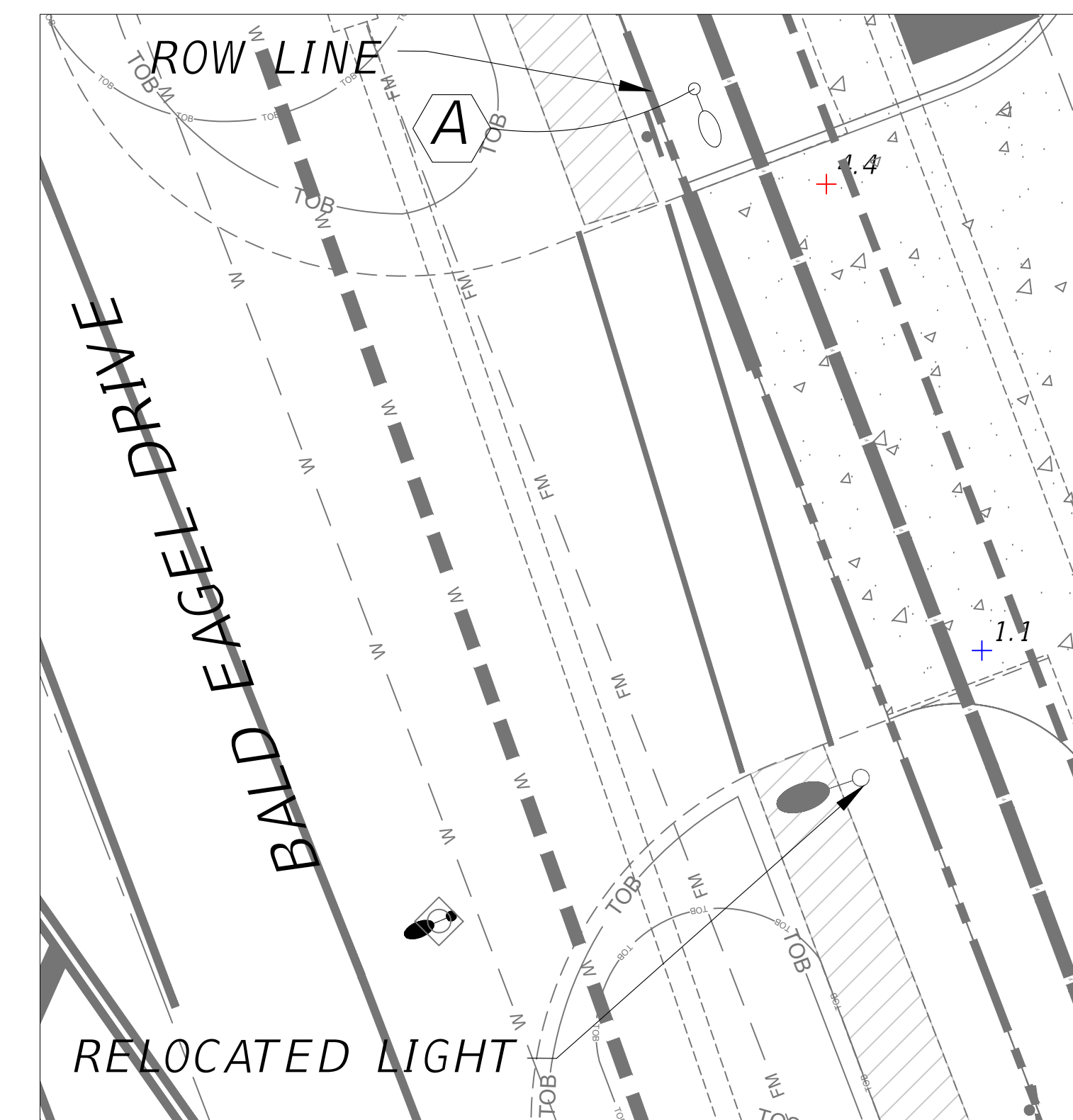
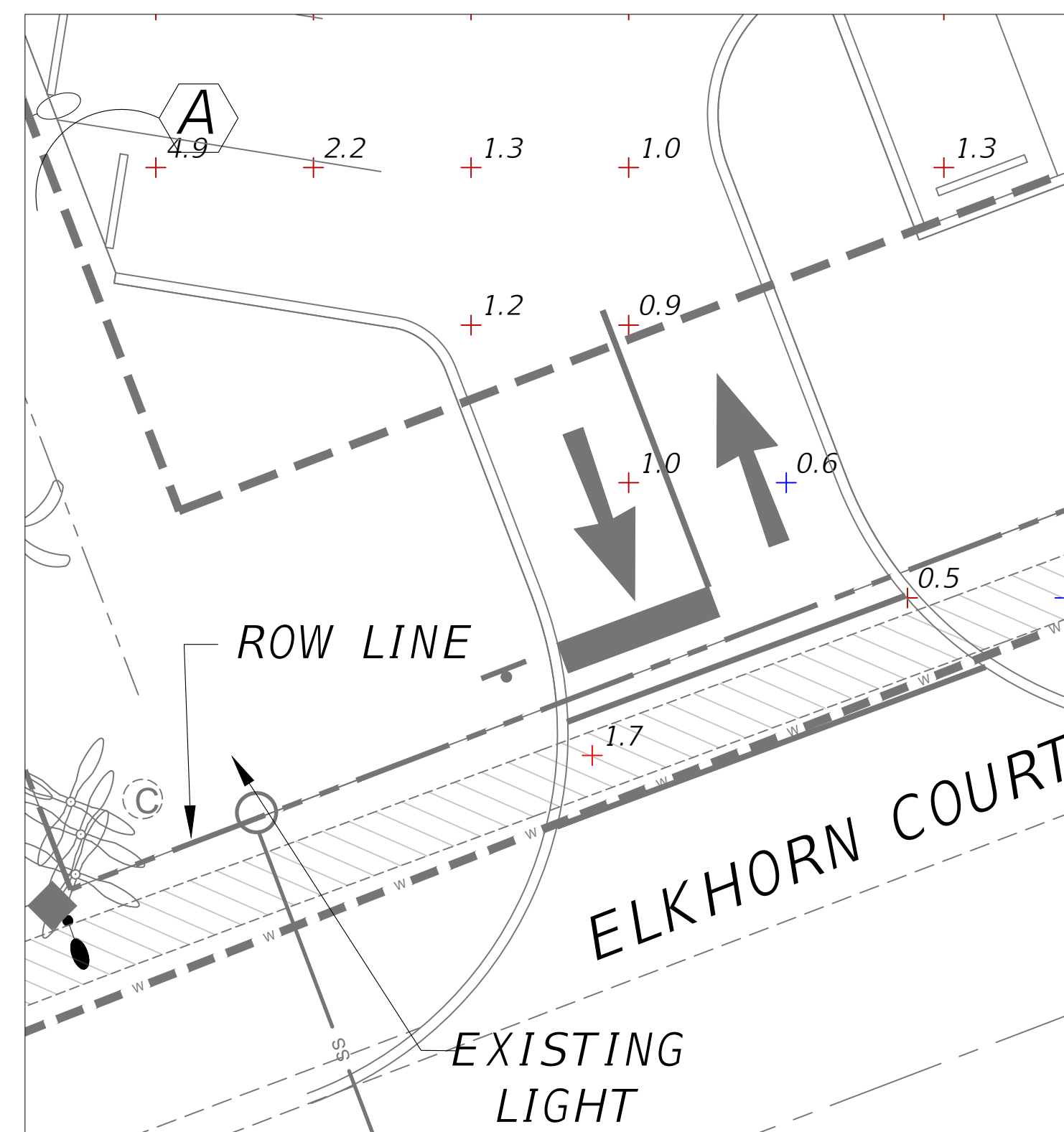
2800 DAVIS BLVD SUITE 200 NAPLES FL 34104

ROSE MARINA SITE DEVELOPMENT PLAN (SDP)		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	COLLIER	NA

PROJECT MAP	SHEET NO.
	L-3

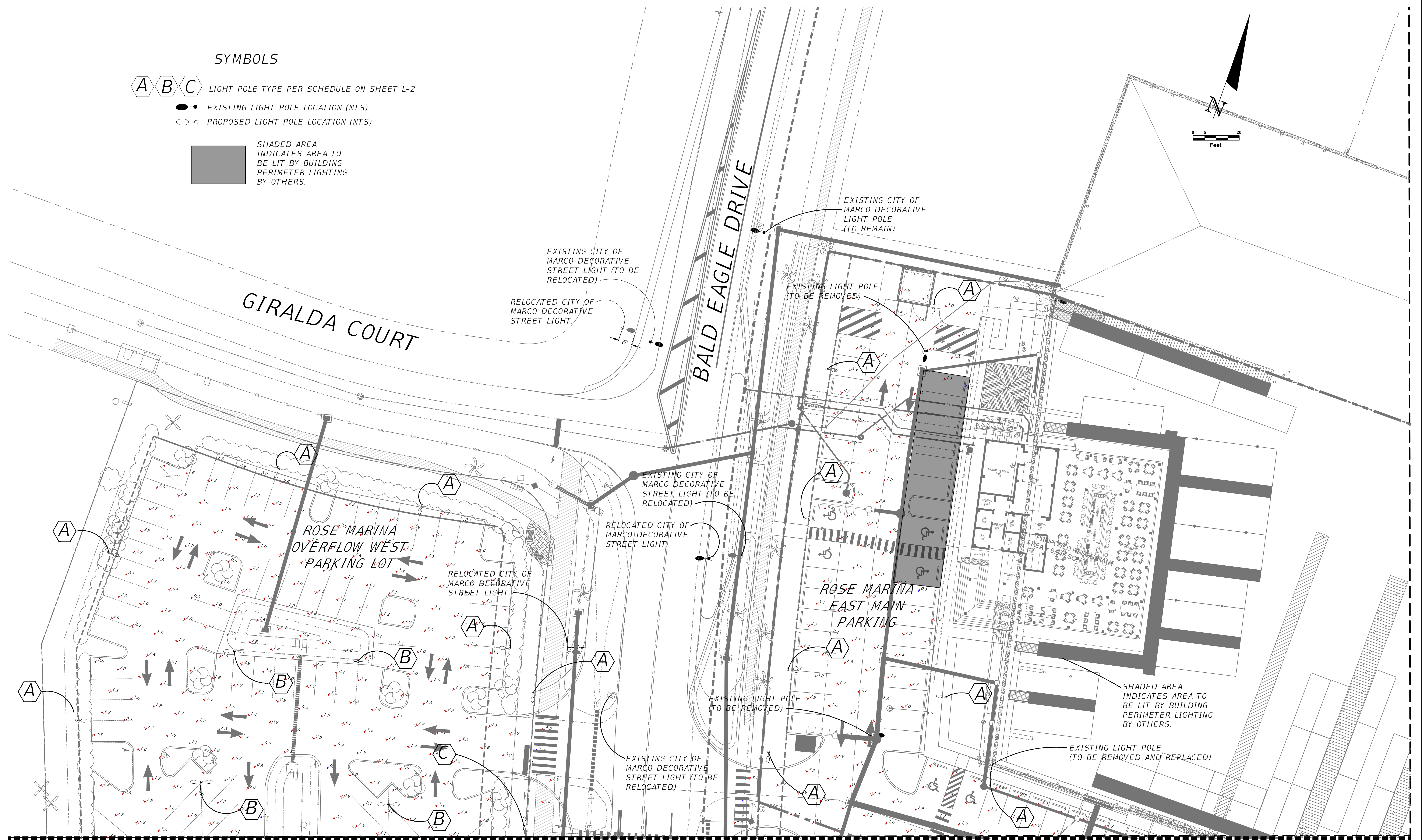


Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Crosswalk #1	⊕	4.9 fc	7.3 fc	3.3 fc	2.2:1	1.5:1	0.7:1
Crosswalk #2	⊕	2.8 fc	4.1 fc	2.0 fc	2.1:1	1.4:1	0.7:1
Crosswalk #3	⊕	3.6 fc	4.2 fc	3.1 fc	1.4:1	1.2:1	0.9:1
Crosswalk #4	⊕	0.8 fc	1.7 fc	0.3 fc	5.7:1	2.7:1	0.5:1
Crosswalk #5	⊕	2.8 fc	4.4 fc	1.1 fc	4.0:1	2.5:1	0.6:1
Main Parking	⊕	2.2 fc	6.1 fc	0.7 fc	8.7:1	3.1:1	0.4:1
West overflow Parking	⊕	1.8 fc	5.7 fc	0.6 fc	9.5:1	3.0:1	0.3:1



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<i>R E V I S I O N S</i>				 TREBILCOCK CONSULTING SOLUTIONS 2800 DAVIS BLVD SUITE 200 NAPLES FL 34104			<i>ROSE MARINA</i> SITE DEVELOPMENT PLAN (SDP)			<i>WALKWAY CROSSING</i> <i>PHOTOMETRIC PLAN</i>		SHEET NO.
<i>DATE</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>DESCRIPTION</i>				<i>ROAD NO.</i>	<i>COUNTY</i>	<i>FINANCIAL PROJECT ID</i>			
11/14/25	REVISED BASE						NA	COLLIER	NA			L-4



SEE SHEET L-6

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
11/14/25	REVISED BASE		

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2800 DAVIS BLVD SUITE 200 NAPLES FL 34104

ROSE MARINA
SITE DEVELOPMENT PLAN
(SDP)

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	COLLIER	NA

Owner

PLAN

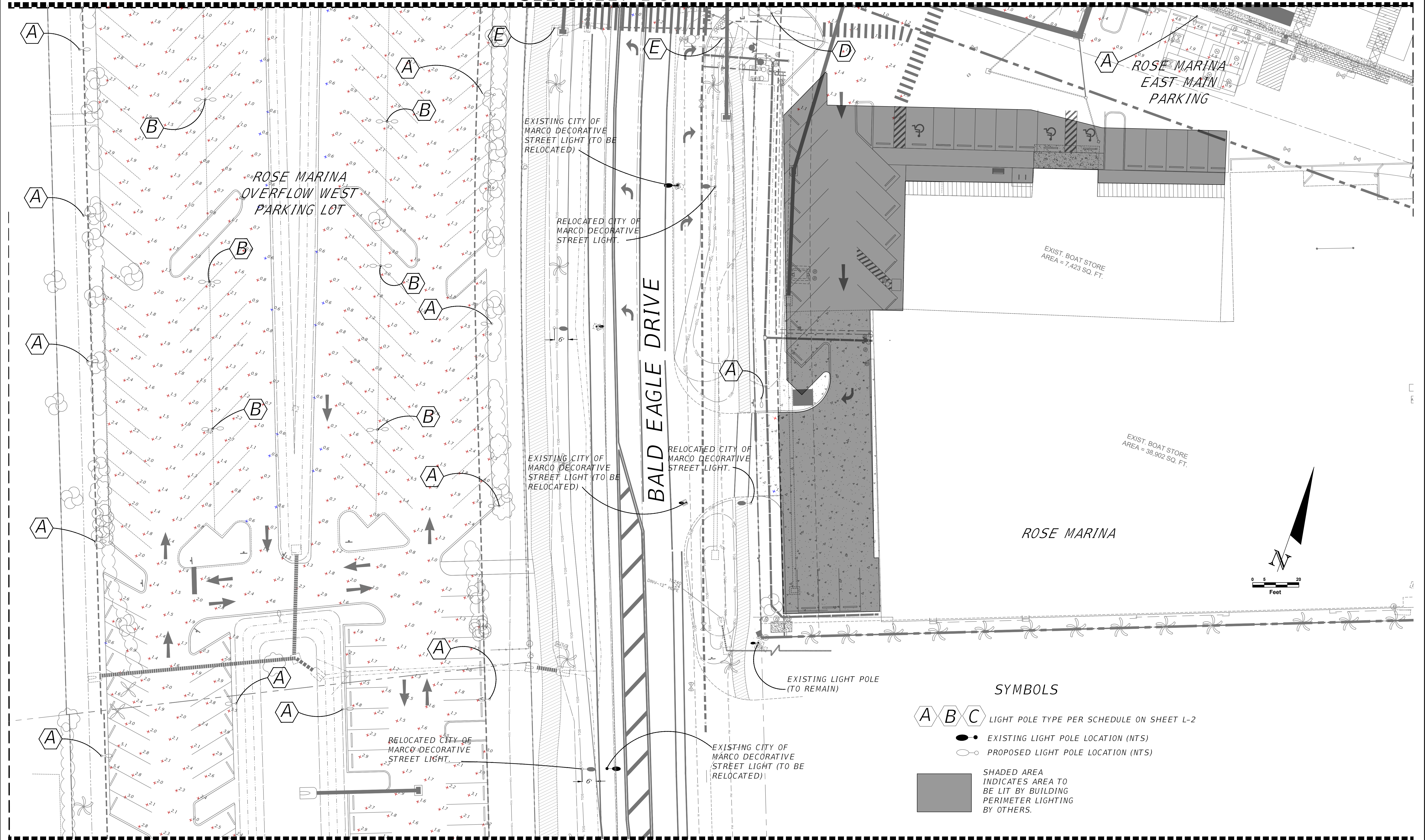
SHEET NO.
L-5

NORMAN TREBILCOCK, AICP, PTOE, PE #47116
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SEE SHEET L-5



SEE SHEET L-7

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
11/14/25	REVISED BASE		



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2800 DAVIS BLVD SUITE 200 NAPLES FL 34104

ROSE MARINA SITE DEVELOPMENT PLAN (SDP)		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	COLLIER	NA

PLAN

SHEET NO.
L-6

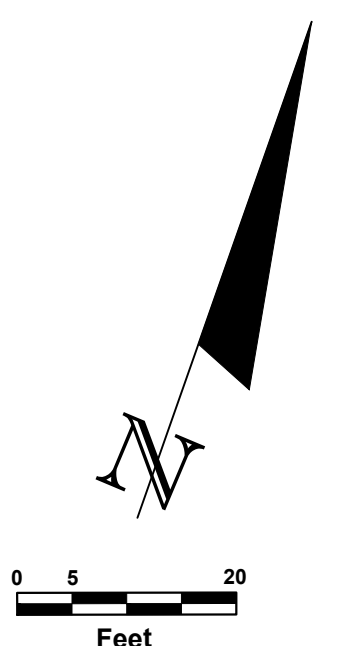
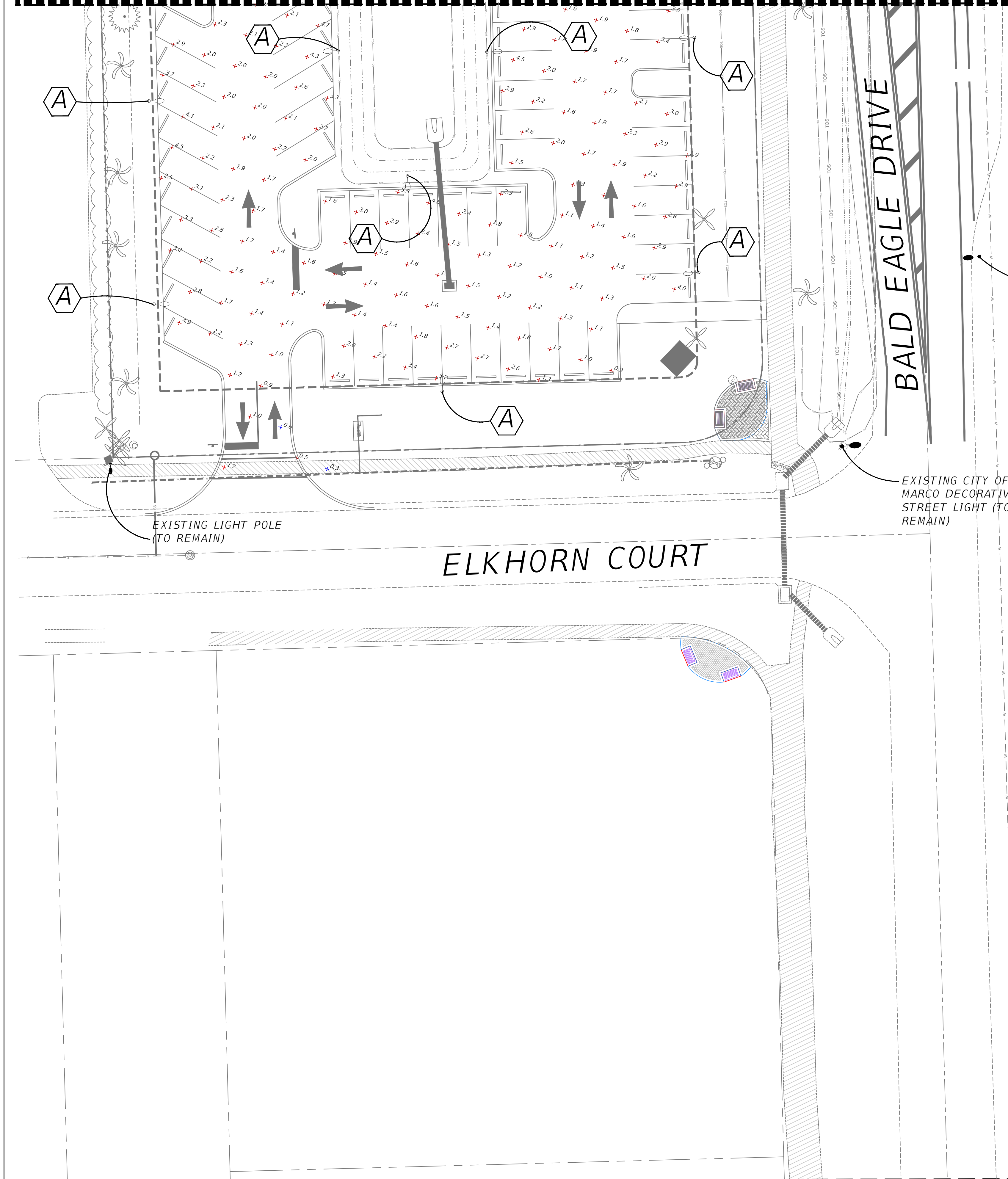
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SEE SHEET L-6



SYMBOLS

- LIGHT POLE TYPE PER SCHEDULE ON SHEET L-2
- EXISTING LIGHT POLE LOCATION (NTS)
- PROPOSED LIGHT POLE LOCATION (NTS)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
11/14/25	REVISED BASE		

TREBILCOCK
CONSULTING SOLUTIONS
2800 DAVIS BLVD SUITE 200 NAPLES FL 34104

ROSE MARINA SITE DEVELOPMENT PLAN (SDP)		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	COLLIER	NA

PLAN

SHEET NO.
L-7

NORMAN TREBILCOCK, AICP, PTOE, PE #47116
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