

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY**

Meeting Date:	April 18, 2023	<input checked="" type="checkbox"/> Consent	<input type="checkbox"/> Regular
		<input type="checkbox"/> Ordinance	<input type="checkbox"/> Public Hearing

Department:	Engineering & Public Works
Submitted By:	Engineering & Public Works
Submitted For:	Traffic Division

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: a work order in the amount of \$512,588.13 to Palm Beach County's (County) annual traffic signal contract dated August 23, 2022 (R2022-0791) with Gerelco Traffic Controls, Inc. (Gerelco) to construct a new mast arm traffic signal at the intersection of Artist Place and Lyons Road, County Intersection ID Number 39850 (Project).

SUMMARY: Approval of this work order will allow Gerelco to construct the Project. A signal warrant analysis at this location is not needed, as the intersection is being constructed to service a new County School. Per County PPM CW-F-050, this work order exceeds the threshold relating to staff approvals of work orders to annual contracts, thus requiring approval from the Board of County Commissioners (BCC). Prior to this work order, \$719,991.06 of Gerelco's \$5,000,000 contract has been spent or encumbered. Gerelco has an office located in Palm Beach County. On January 20, 2022, Office of Equal Business Opportunity granted a waiver of the Affirmative Procurement Initiative based upon the determination that sufficient qualified Small/Minority/Women Business Enterprises providing the goods or services required by the contract are unavailable in the County to perform the specialized construction of traffic signals. On August 23, 2022, the BCC approved the annual traffic signal contract with Gerelco to provide for and install various signal components for traffic control devices. District 6 (YBH)

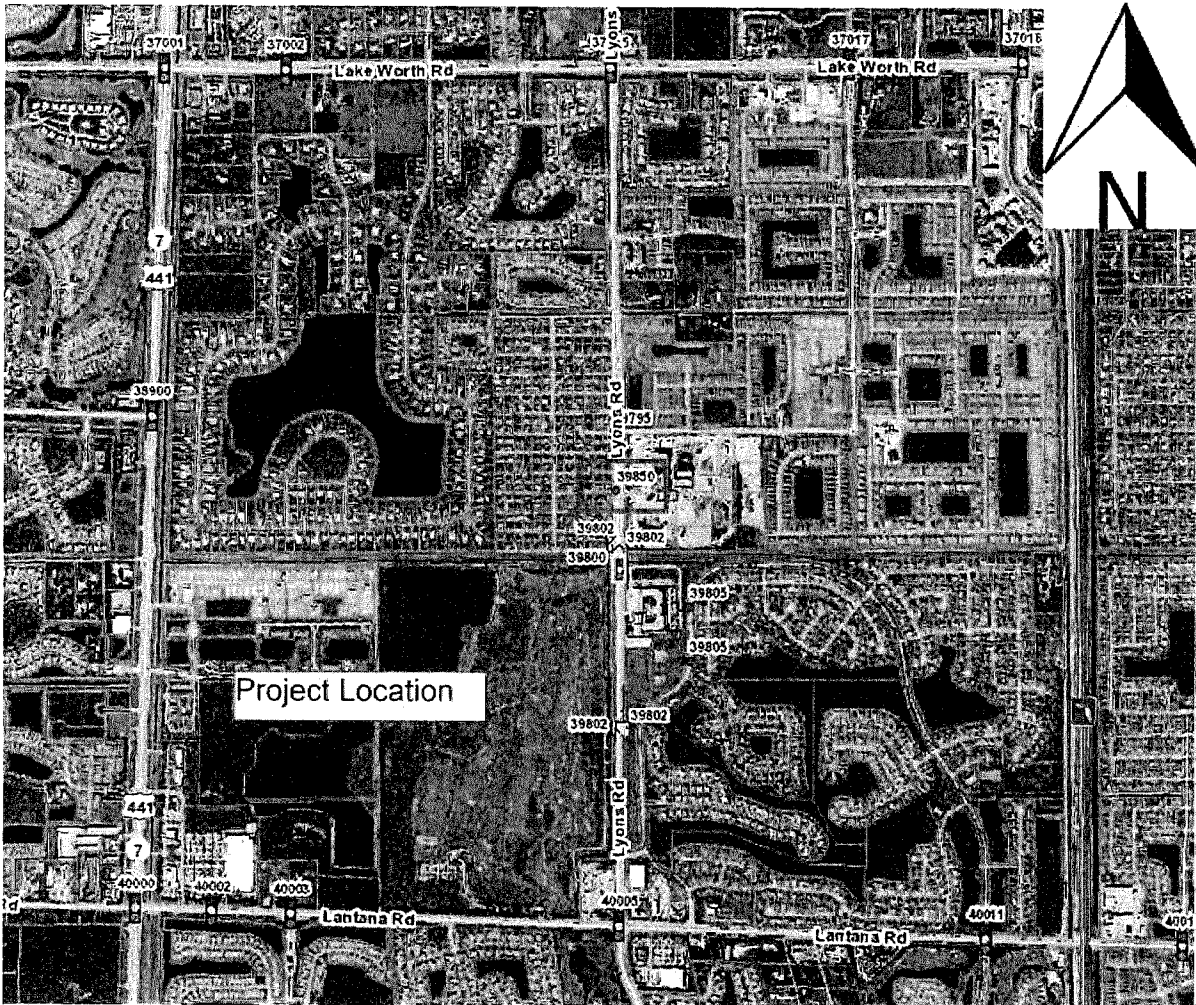
Background and Justification: The County is now requesting that Gerelco construct the Project in accordance with the work order. The construction cost is not to exceed \$512,588.13, including a contingency of \$102,517.63. The Engineering & Public Works Department recommends BCC approval.

Attachments:

1. Location Sketch
2. Work Order with Exhibit A and B
3. Office of Equal Business Opportunity Waiver

Recommended By: YBH/TEL	<u>RA David Z. Hall</u>	<u>3/28/2023</u>
	County Engineer	Date
Approved By:	<u>P. Lee</u>	<u>4/4/23</u>
	Assistant County Administrator	Date

Location Map



**WORK ORDER TO THE ANNUAL TRAFFIC SIGNAL CONTRACT (R2022-0791)
BETWEEN PALM BEACH COUNTY AND GERELCO TRAFFIC CONTROLS, INC. TO
CONSTRUCT A MAST ARM TRAFFIC SIGNAL AT THE INTERSECTION OF ARTIST
PLACE AND LYONS ROAD, PALM BEACH COUNTY INTERSECTION ID NUMBER
39850, SIGNAL PROJECT NUMBER 2010-504B, PALM BEACH COUNTY, FLORIDA**

**THIS WORK ORDER TO THE ANNUAL TRAFFIC SIGNAL CONTRACT
DATED AUGUST 23, 2022 (R2022-0791), is made and entered into this ____ day of
_____, 2023, by and between Palm Beach County, a political subdivision of the
State of Florida, by and through its Board of County Commissioners (COUNTY), and
GERELCO TRAFFIC CONTROLS, INC., a Florida corporation with an address of 560 NW
Enterprise Drive, Port Saint Lucie, FL 34986 (CONTRACTOR).**

WITNESSETH

**WHEREAS, on August 23, 2022, COUNTY and CONTRACTOR entered into an
Annual Contract (R2022-0791) (CONTRACT) to provide for the furnishing and installation of
various signal components for traffic control devices on a work order basis; and**

**WHEREAS, COUNTY desires CONTRACTOR to construct a mast arm traffic signal at
the intersection of Artist Place and Lyons Road, Palm Beach County Intersection ID Number
39850, (PROJECT); and**

**WHEREAS, CONTRACTOR agrees to construct the PROJECT in accordance with the
terms and conditions of the CONTRACT and as directed and accepted by the COUNTY; and**

**WHEREAS, pursuant to the CONTRACT, a cost not to exceed \$512,588.13 has been
calculated by COUNTY and found to be appropriate compensation for the services to be
performed by CONTRACTOR to construct the PROJECT.**

NOW, THEREFORE, THIS INDENTURE WITNESSETH: That for and in
consideration of the mutual benefits to flow from each to the other, the parties hereto agree as
follows:

1. The above recitals are true and correct and incorporated herein.
2. **CONTRACTOR** agrees to provide services for the **PROJECT** in accordance with the
CONTRACT and as further described in **Exhibit A and B**.
3. **COUNTY** agrees to pay the **CONTRACTOR** a fee not to exceed \$512,588.13 to construct
the **PROJECT**. Final payment shall be per documented quantities installed.

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida, has made and executed this Work Order for the **PROJECT**, pursuant to the **CONTRACT** on behalf of the **COUNTY**, and **CONTRACTOR** has hereunto set its hand the day and year above written.

OWNER:

Palm Beach County, a political subdivision of the State of Florida by and through its Board of County Commissioners

BY: _____
Gregg K. Weiss, Mayor

ATTEST:

Joseph Abruzzo
Clerk of the Circuit Court & Comptroller

BY: _____
Deputy Clerk

COUNTY SEAL

APPROVED AS TO TERMS AND CONDITIONS

BY: MA
Motasem Al-Turk
Traffic Division, Director

APPROVED AS TO FORM & LEGAL SUFFICIENCY:

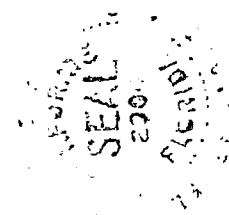
BY: _____
Yelizaveta Herman
Assistant County Attorney

CONTRACTOR:

Gerelco Traffic Controls, Inc., a Florida Corporation

BY: Kenneth A. Geremia, Jr.
Kenneth A. Geremia, Jr.
President

CORPORATE SEAL



WITNESS:

BY: O'teaka Lilly
O'teaka Lilly
(Printed Name)

BY: Maria Enriquez
Maria Enriquez
(Printed Name)

PALM BEACH COUNTY ENGINEERING & PUBLIC WORKS
TRAFFIC DIVISION WORK ORDER / ANNUAL CONTRACT R2022-0791

PROJECT NAME: Artist Pl and Lvons Rd
(PBC Intersection 39850)
BUDGET LINE ITEM: 3501-361-1336-6408
KDO NUMBER: EN012023*72
PBC ENGINEERING ANNUAL SIGNAL CONTRACT NUMBER: 2022-0791
PBC ENGINEERING PROJECT NUMBER: N/A
PBC TRAFFIC DIVISION SIGNAL PROJECT NUMBER: 2010-504B
WORK ORDER NUMBER: G-05
DATE: _____ COMMISSION DISTRICT: 6

TO: Kenneth A. Geremia, Jr., Gerelco Traffic Controls, Inc.

In accordance with the terms of your contract dated August 23, 2022, you are directed to provide the following supplies and services: Provide for the furnishing and installation of a mast arm traffic signal as shown on the Signal Plans, and Bidtab, dated 02/09/2023.

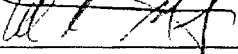
The above work shall be performed at: Artist Pl and Lvons Rd (PBC Intersection 39850).

STARTING: The contract duration for this work is 240 days. A separate Notice to Proceed (“NTP”) letter will be issued directing the contractor to commence work within the time specified in the NTP letter. The total amount of this Work Order, at the contract prices, is estimated to be \$512,588.13, which includes \$102,517.63 contingency (see attached Bidtab for quantities). The Office of Equal Business Opportunity waived the API Requirements (see attached.)

This work shall be coordinated by, (48 hours prior notice to commencement of work):

<u>Fattoush Jafar, P.E., Ph.D.</u>	<u>Traffic Engineering & Operations Manager</u>	<u>(561) 684-4030</u>
Name	Title	Telephone

Please indicate your receipt of this Work Order by signing and returning a duplicate copy.

	<u>President</u>	<u>772.340.7474</u>
Name <u>Kenneth A. Geremia, Jr.</u>	Title	Telephone

Please sign below and submit with invoice at the completion of the project.
Project completed in compliance with Contract and Project specifications.

_____ Signature	_____ Title	_____ Telephone
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PBCBCC-TRAFFIC DIVISION
2300 N. JOG ROAD
W.P.B., FL. 33411-2745
Phone: (561) 684-4030 Fax: (561) 478-5770

GERELCO BIDTAB

CONTRACT

#2022052

DATE:2/9/2023

SIGNAL PROJECT #:

INTERSECTION:Artist Place @ Lyons Rd.

INTERSECTION NO.#39850

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
102-1-A	GENERAL MAINTENANCE OF TRAFFIC - [HR] [F&I]	16	\$121.00	\$1,936.00
630-2-11-2	2" PVC (SCH 40) UNDERGROUND CONDUIT - [LF] [F&I]	395	\$8.30	\$3,278.50
630-2-12-2-1	1-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	225	\$25.00	\$5,625.00
630-2-12-2-2	2-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	125	\$29.00	\$3,625.00
630-2-12-2-3	3-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	135	\$33.00	\$4,455.00
630-2-12-2-5	5-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	385	\$45.00	\$17,325.00
632-7-1-19D	SIGNAL CABLE (SPAN LENGTH 451' - 550') - [PI] [F&I]	1	\$7,200.00	\$7,200.00
632-7-1-4A	PEDESTRIAN SIGNAL CABLE - 4 CONDUCTOR - [PI] [F&I]	1	\$4,500.00	\$4,500.00
632-7-1-7A	PEDESTRIAN SIGNAL CABLE - 7 CONDUCTOR - [PI] [F&I]	1	\$6,250.00	\$6,250.00
635-2-12-A	PULL BOX (17" x 30" x 12"D) HEAVY DUTY COVERS (TIER 15) - [EA] [F&I]	27	\$1,000.00	\$27,000.00
635-2-12-C	PULL BOX (30" x 48" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) (TIER 15) - [EA] [F&I]	1	\$3,500.00	\$3,500.00
635-2-12-D	PULL BOX (17" x 30" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) (TIER 15) - [EA] [F&I]	1	\$2,200.00	\$2,200.00
639-1-121	ELECTRICAL POWER SERVICE WITH METER BASE (UNDERGROUND) METER FURNISHED BY POWER COMPANY - [AS] [F&I]	1	\$1,325.00	\$1,325.00
639-2-1-3	ELECTRICAL SERVICE WIRE (SINGLE PHASE 3-WIRE, TRIPLEX) - [LF] [F&I]	200	\$5.50	\$1,100.00
639-3-11	ELECTRICAL SERVICE DISCONNECT (BREAKER BOX, SHEET T 6.2 OF PBC STANDARDS) - [EA] [F&I]	1	\$885.00	\$885.00
641-2-12-12	PRESTRESSED CONCRETE POLE (12' TYPE P-II) - [EA] [F&I]	1	\$1,250.00	\$1,250.00
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL WITH TRANSFORMER BASE (8 FEET ABOVE GROUND) - [EA] [F&I]	5	\$1,580.00	\$7,900.00
649-22-6L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 50' (A50/S-P3/S/L) - [EA] [F&I]	1	\$39,712.00	\$39,712.00
649-22-10L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 60' (A60/S-P4/S/L) - [EA] [F&I]	1	\$44,326.00	\$44,326.00
649-22-10L-HD	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 60' HEAVY DUTY (A60/S-P4/S/L-HD) - [EA] [F&I]	1	\$45,718.00	\$45,718.00

DATE:2/9/2023

SIGNAL PROJECT #:

INTERSECTION:Artist Place @ Lyons Rd.

INTERSECTION NO.#39850

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
649-22-15L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 70' (A70/S-P5/S/L) - [EA] [F&I]	1	\$48,645.00	\$48,645.00
649-2-14-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 14' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/14/4.5) - [EA] [F&I]	1	\$16,000.00	\$16,000.00
649-2-16-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 16' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/16/4.5) - [EA] [F&I]	1	\$18,500.00	\$18,500.00
649-2-18-50	DRILLED SHAFT FOUNDATION ASSEMBLY, 18' DEEP AND 5.0' DIAMETER, FURNISH AND INSTALL (DS/18/5.0) - [EA] [F&I]	2	\$18,500.00	\$37,000.00
650-1-13	TRAFFIC SIGNAL HEAD ALUMINUM (3-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	7	\$1,100.00	\$7,700.00
650-1-14	TRAFFIC SIGNAL HEAD ALUMINUM (4-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	2	\$1,350.00	\$2,700.00
650-1-15	TRAFFIC SIGNAL HEAD ALUMINUM (5-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	2	\$1,650.00	\$3,300.00
653-191	PEDESTRIAN SIGNAL - COUNT DOWN (1-WAY) ALUMINUM - [EA] [F&I]	4	\$800.00	\$3,200.00
653-192	PEDESTRIAN SIGNAL - COUNT DOWN (2-WAY) ALUMINUM - [EA] [F&I]	1	\$1,315.00	\$1,315.00
660-2-106-B	LOOP ASSEMBLY (TYPE F - 46'). - [EA] [F&I]	10	\$2,450.00	\$24,500.00
670-5-310-A	TRAFFIC CONTROLLER ASSEMBLY (TYPE 6 - INSTALL ONLY) - [AS] [I]	1	\$9,500.00	\$9,500.00
700-5-42	INTERNALLY ILLUMINATED SIGN (8') INSTALL ONLY - [EA] [I]	4	\$500.00	\$2,000.00
715-5-32	LUMINAIRE AND BRACKET ARM - GALV STEEL - [EA] [F&I]	4	\$1,350.00	\$5,400.00
665-1-31	Pedestrian Detector (Push Button) - Install Only - [EA] [I]	6	\$200.00	\$1,200.00

TOTAL:

\$410,070.50

Comments:	Total = \$410,070.50
	Contingency (.25*Total) = \$102,517.63
	GRAND TOTAL = \$512,588.13

COUNTY OF PALM BEACH
STATE OF FLORIDA

INDEX OF SHEETS

SHEET No. DESCRIPTION

T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4 & T-5	SIGNALIZATION PLANS
T-5A	PAVEMENT MARKING PLAN
T-6	MAST ARM TABULATION
T-7	MAST ARM ASSEMBLIES
T-8	SIGNAL DETAILS

SIGNALIZATION PLANS

ARTIST PLACE/DR. JOAQUIN GARCIA HIGH SCHOOL
ENTRANCE AT LYONS ROAD
P.B.C. PROJECT #2010504B
P.B.C. INTERSECTION #39850

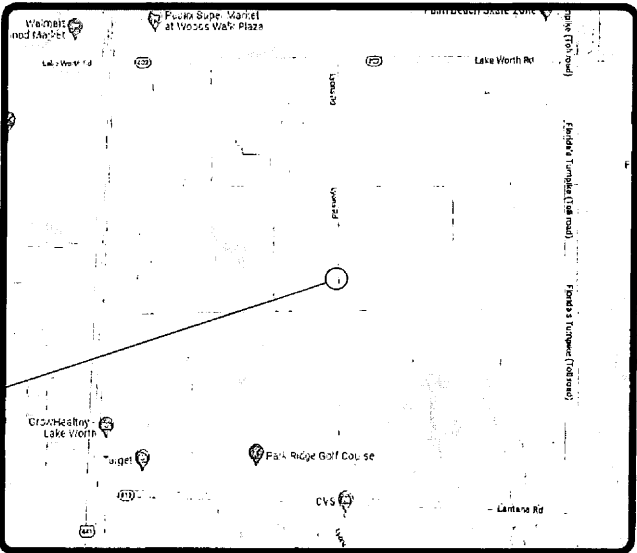
90% PLANS

STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS
LATEST EDITION AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION LATEST EDITION, FEBRUARY 2021
PALM BEACH COUNTY TYPICALS FOR PAVEMENT MARKINGS,
SIGNING, AND GEOMETRICS, 2022 PALM BEACH COUNTY
TRAFFIC SIGNAL INSTALLATION STANDARDS AND DETAILS AS
AMENDED BY CONTRACT DOCUMENTS.

MAINTENANCE OF TRAFFIC:
FOR INDEX #S USE F.D.O.T. STANDARD PLANS
102-600, 601, 602, 603, 604, 613, 615, 660 & 661

APPLICABLE DESIGN STANDARDS REVISIONS:
For Design Standards Modifications click on
"Design Standards" at the following web site:
<https://www.fdot.gov/design/standardplans/current>

PROJECT LOCATION



LOCATION MAP
NOT TO SCALE

SEC. 31, TWP. 44S., RGE. 42E.

LYONS ROAD = 45 M.P.H. SPEED LIMIT

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED BY EMAIL TO:
TRICIA@SIMMONSANDWHITE.COM

PLANS PREPARED BY:
SIMMONS & WHITE, INC.
2581 METROCENTRE BLVD WEST, SUITE 3
WEST PALM BEACH, FL 33407

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

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGN ARE
IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN STANDARDS AND
CRITERIA IN EFFECT ON THIS DATE FOR PALM BEACH COUNTY
ENGINEERING DEPARTMENT AND THE STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION.

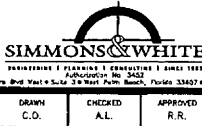
DATE: _____ PROFESSIONAL ENGINEER #56925

PATRICIA BARR, P.E.

1/13/2023



PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND
SEALED BY PATRICIA MARIE BARR, P.E. ON
1/13/2023 USING A SHA-1 AUTHENTICATION CODE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED AND SEALED AND THE SHA-1
AUTHENTICATION CODE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.



ARTIST PLACE AT LYONS ROAD
P.B.C. PROJECT #2010504B
P.B.C. INTERSECTION #39850
KEY SHEET

DESIGN T.B.	DRAWN C.O.	CHECKED A.L.	APPROVED R.R.	DATE
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JOB NO. 22-083	DRAWING NO. 22083T01	SHEET OF T-1 T-8
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TABULATION OF QUANTITIES											TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
PBC PAY ITEM NO.	DESCRIPTION	UNIT	T-4		T-5		T-5A		PLAN	FINAL	PLAN	FINAL			
101-1	MOBILIZATION/DEMOBILIZATION	LS							1		1				
102-1-A	MOT	LS							1		1				
110-1-1	CLEARING AND GRUBBING	LS							1		1				
327-70-1	MILL EXISTING ASPHALT PAVEMENT (1")	SY	1545						1545		1545				
337-7-82	ASPHALT CONCRETE FRICTION COURSE (1") (TRAFFIC C, FC-9.5, PG 76-22)	TN	125.2						125.2		125.2				
522-1	CONCRETE SIDEWALK 4"	SY	11						11		11				
527-2	DETECTABLE WARNINGS (F & I)	SF	8						8		8				
630-2-11-2	2" PVC (SCH 40) UNDERGROUND CONDUIT (F & I)	LF	395						395		395				
630-2-12-2-1	1-2" (HDPE SDR 13) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	225						225		225				
630-2-12-2-2	2-2" (HDPE SDR 13) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	125						125		125				
630-2-12-2-3	3-2" (HDPE SDR 13) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	135						135		135				
630-2-12-2-5	5-2" (HDPE SDR 13) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	385						385		385				
632-7-1-19G	SIGNAL CABLE (SPAN LENGTH 751' - GREATER)	PI	1						1		1				
632-7-1-4A	PEDESTRIAN SIGNAL CABLE - 4 CONDUCTOR (F & I)	PI	1						1		1				
632-7-1-7A	PEDESTRIAN SIGNAL CABLE - 7 CONDUCTOR (F & I)	PI	1						1		1				
633-1-121	FIBER OPTIC CABLE (F & I) (UNDERGROUND) (12)	LF	750						750		750				
633-2-32	FIBER OPTIC CONNECTION (INSTALL) (TERMINATION)	EA	12						12		12				
633-3-12	FIBER OPTIC CONNECTION HARDWARE (F & I) (SPUCE TRAY)	EA	1						1		1				
635-2-12-A	PULL BOX (17" x 30" x 12"D) HEAVY DUTY COVERS (TIER 15) (F & I)	EA	25						25		25				
635-2-12-C	PULL BOX (30" x 48" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) (TIER 15) (F & I)	EA	1						1		1				
635-2-12-D	PULL BOX (17" x 30" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) (TIER 15) (F & I)	EA	1						1		1				
639-1-121	ELECTRICAL POWER SERVICE WITH METER BASE (UNDERGROUND) METER FURNISHED BY POWER COMPANY	AS	1						1		1				
639-2-1-3	ELECTRICAL SERVICE WIRE (SINGLE PHASE 3-WIRE, TRIPLEX) (4 AWG) (F & I)	LF	200						200		200				
639-3-11	ELECTRICAL SERVICE DISCONNECT (BREAKER BOX, SHEET T 6.2 OF PBC STANDARDS) (F & I)	EA	1						1		1				
641-2-12-12	PRESTRESSED CONCRETE POLE (12' TYPE P-10) (F & I)	EA	1						1		1				
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL WITH TRANSFORMER BASE (8 FEET ABOVE GROUND) (F & I)	EA	4						4		4				
649-2-14-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 14' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/14/4.5)	EA	1						1		1				
649-2-16-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 16' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/16/4.5)	EA	1						1		1				
649-2-18-50	DRILLED SHAFT FOUNDATION ASSEMBLY, 18' DEEP AND 5.0' DIAMETER, FURNISH AND INSTALL (DS/18/5.0)	EA	1						1		2				
649-22-6L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 50' (A50/S-P3/S/L)	EA	1						1		1				
649-22-10L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 60' (A60/S-P4/S/L)	EA	1						1		1				
649-22-10L-HD	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 60' HEAVY DUTY (A60/S-P4/S/L-HD)	EA	1						1		1				
649-22-15L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 70' (A70/S-P5/S/L)	EA	1						1		1				
650-1-13	TRAFFIC SIGNAL HEAD ALUMINUM (3-SECTION, 1-WAY) INCLUDES BACKPLATES (F & I)	AS		7					7		7				
650-1-14	TRAFFIC SIGNAL HEAD ALUMINUM (4-SECTION, 1-WAY) INCLUDES BACKPLATES (F & I)	AS		2					2		2				
650-1-15	TRAFFIC SIGNAL HEAD ALUMINUM (5-SECTION, 1-WAY) INCLUDES BACKPLATES (F & I)	AS		1					1		2				
653-191	PEDESTRIAN SIGNAL - COUNT DOWN (1-WAY) ALUMINUM (F & I)	AS		4					4		4				
653-192	PEDESTRIAN SIGNAL - COUNT DOWN (2-WAY) ALUMINUM (F & I)	AS		1					1		1				
665-1-11	PEDESTRIAN DETECTOR (PUSH BUTTON) (F & I)	EA	6						6		6				
660-2-106-B	LOOP ASSEMBLY (TYPE F 46') (F & I)	EA	10						10		10				
670-5-110-B	TRAFFIC CONTROLLER ASSEMBLY (TYPE G) AS PER NAZTEC (F & I)	AS	1						1		1				
700-1-11	SINGLE POST SIGN (F & I) (GROUND) (≤ 12 SF)	AS		2					2		2				
700-1-60	SINGLE POST SIGN (REMOVE)	AS	2						2		2				
700-3-201	SIGN PANEL (F & I) (OVERHEAD) (≤ 12 SF)	EA		5					5		5				
700-5-22	INTERNALLY ILLUMINATED SIGN (8") FLUORESCENT (F & I)	EA		4					4		4				
706-1-3	RAISED PAVEMENT MARKER (TYPE B)	EA					16		16		16				
711-11-121	THERMOPLASTIC (STD) (WHITE) (SOLID) (6") (F & I)	LF					300		300		300				
711-11-125	THERMOPLASTIC (STD) (WHITE) (SOLID) (24") (F & I)	LF					556		556		556				
711-11-160	THERMOPLASTIC (STD) (WHITE) (SYMBOL) (F & I)	EA		2					2		2				
711-11-170	THERMOPLASTIC (STD) (WHITE) (ARROW) (F & I)	EA		5					5		5				
711-11-241	THERMOPLASTIC (STD) (YELLOW) (2-4 DOTTED GUIDELINE) (F & I)	GM				0.07			0.07		0.07				
715-5-11	LUMINAIRE & BRACKET ARM (F & I)	EA	4						4		4				

PAY ITEM NOTES:

- 102-1 INCLUDES COST OF REMOVING ALL CONFLICTING PAVEMENT MARKINGS.
- 630-2-12A CONSISTS OF THE COST ASSOCIATED WITH FURNISHING AND INSTALLING 2-2" CONDUITS (HDPE SDR 11) UNDERPAVEMENT BY DIRECTIONAL BORE.
- 630-2-12C CONSISTS OF THE COST ASSOCIATED WITH FURNISHING AND INSTALLING 4-2" CONDUITS (HDPE SDR 11) UNDERPAVEMENT BY DIRECTIONAL BORE.
- 635-2-11 TYPICAL SIGNAL PULL BOXES SHALL BE 17" X 30" X 12" IN DIMENSION AND HEAVY DUTY TIER 15 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC".
- 635-2-12 TYPICAL ITS PULL BOXES SHALL BE 17" X 30" X 24" (SMALL) AND HEAVY DUTY TIER 15 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC ITS".
- 635-2-13 TYPICAL ITS PULL BOXES SHALL BE 30" X 48" X 24" (LARGE) AND HEAVY DUTY TIER 15 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC ITS".
- 649-XX-XXX AT THE DISCRETION OF THE ENGINEER OF RECORD AND WITH MUTUAL AGREEMENT OF PBC TRAFFIC ENGINEERING, FINAL LOCATIONS OF THE MAST ARMS MAY BE ADJUSTED IN THE FIELD IF THERE IS ANY CONFLICT WITH UTILITIES. SIGNAL CONTRACTOR SHALL VERIFY THE PROPOSED FOUNDATION ELEVATIONS.
- 650-1-XX TRAFFIC SIGNAL HEADS ARE TO BE CAST ALUMINUM. LED MODULES SHALL BE INSTALLED ON ALL SIGNAL DISPLAYS, INCLUDING ARROWS. THESE MODULES SHALL INCLUDE A MANUFACTURER'S WARRANTY OF AT LEAST FIVE YEARS. THE MAXIMUM POWER RATING SHALL BE 10 WATTS FOR RED BALLS, 14 WATTS FOR GREEN BALLS AND 7 WATTS FOR THE ARROWS. ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND BACK PLATES.
- 660-2-106 TYPICAL LOOP SIZE IS 46' LONG.
- 665-1-XX ALL PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT. PBC PREFERS THE POLARA ENGINEERING INC. BDL3 BULLDOG III SERIES PUSH BUTTON (APL 665-003-011) WITH COUNTY LOGO. CONTACT MANUFACTURER FOR THE CUSTOM ETCHED LOGO AND REFER TO BDL3-B-02. COSTS OF PEDESTRIAN SIGN FTP-68B-06 SHALL BE INCLUDED IN UNIT PRICE FOR PEDESTRIAN DETECTORS.
- 700-5-XX INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE SIDED AND FREE SWINGING MOUNTED EXCEPT WHERE NOTED. CONTRACTOR SHALL INSTALL ONE PHOTOCELL PER INTERNALLY ILLUMINATED STREET NAME SIGN. PER THE F.D.O.T. PAY ITEM DETAIL, ALL MOUNTING HARDWARE IS INCLUDED IN THE SIGN PAY ITEM. PER MUTCD, USE CORRECT GREEN TRANSLUCENT FILM FOR SIGN PANEL.
- 715-5-XX LUMINAIRE SHALL BE AUTOBAHN SERIES ATB2 LED (ATB2- P601, R4 4K, 175 WATTS WITH 24,770 LUMEN FIXTURE) AND EACH FIXTURE SHALL BE PROVIDED WITH PHOTOELECTRIC CELL. A SEPARATE CIRCUIT/BREAKER SHALL BE PROVIDED IN SIGNAL DISCONNECT FOR MAST ARMS WITH LUMINAIRES, COST OF WHICH IS INCLUDED UNDER THE PAY ITEM.

1/13/2023



PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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ARTIST PLACE AT LYONS ROAD
P.B.C. PROJECT #20105048
P.B.C. INTERSECTION #39850
TABULATION OF QUANTITIES

DESIGN	DRAWN	CHECKED	APPROVED	DATE	JOB NO.	DRAWING NO.	SHEET	OF
T.B.	C.O.	A.L.	R.R.		22-083	22083T02	T-2	T-8

SIGNALIZATION GENERAL NOTES

- 1.) SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (U.S. DEPARTMENT OF TRANSPORTATION, FHWA). WARNING SIGN LOCATION CHANGES MUST BE APPROVED BY THE DISTRICT TRAFFIC PLANS AND STANDARDS ENGINEER.
- 2.) CONTRACTOR SHOULD REVIEW AND ADHERE TO THE PALM BEACH COUNTY TRAFFIC SIGNAL INSTALLATION STANDARDS AND DETAILS 2022 (OR LATEST REVISED EDITION), AND FDOT ROADWAY DESIGN STANDARDS 2022-2023 (LATEST EDITION).
- 3.) THE CONTRACTOR SHALL REFURBISH EXISTING PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION.
- 4.) PRIOR TO EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE EOR AND PALM BEACH COUNTY TRAFFIC DIVISION EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO:
- NON-STRUCTURAL SUBMITTALS
 - ALL GUIDE SIGN LEGENDS (IF DIFFERENT FROM DETAILED)
 - CONTROLLER CABINET AND ASSEMBLY
 - VIDEO DETECTION SYSTEM.
 - STRUCTURAL SUBMITTALS
 - SIGN STRUCTURES, INCLUDING CANTILEVER TRUSSES AND FOUNDATIONS
 - WAST ARM, POLE AND FOUNDATIONS
 - WAST ARM POLES WITH LUMINAIRE ATTACHMENTS SHALL BE PROVIDED WITH SHOP DRAWINGS AND CALCULATIONS.
- 5.) SHOP DRAWINGS AND DESIGN DATA SHALL BE SUBMITTED ELECTRONICALLY TO THE ENGINEER OF RECORD WITH A COPY SENT TO PALM BEACH COUNTY TRAFFIC DIVISION AT ENG-TRAFF-INSPECTION@PBCGOV.ORG. ALLOW 30 DAYS TURN AROUND FOR SUBMITTALS. ALL SUBMITTALS SHOULD BE SUBMITTED TO: TRICHS@SIMMONSANDWHITE.COM
TEL: (561) 478-7648
- 6.) THE CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT (561) 233-3900 FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION IF WORK IS BEING DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT OR IN ADVANCE OF ANY SIGNAL RELATED INSTALLATION WORK.
- 7.) ALL SIGNS AND OTHER TRAFFIC CONTROL DEVICES, EXCEPT EQUIPMENT SHOWN OR NOTED ON THE PLAN SHEETS FOR REMOVAL BY OTHERS, SHALL BE REMOVED BY THE CONTRACTOR AND STOCKPILED WITHIN THE RIGHT OF WAY ONLY AFTER 48 HOUR NOTICE TO THE MAINTAINING AGENCY. CONTROL DEVICES SHALL THEN BE REMOVED BY OTHERS FOR DELIVERY TO THE NOTIFIED AGENCY.
- 8.) ALL REMOVED ITEMS TO BE DELIVERED TO PBCOTD AT 2555 VISTA PARKWAY WEST PALM BEACH FL - CALL 48 HOURS PRIOR TO DELIVERY (561) 233-3900. CONCRETE POLES CAN BE DISCARDED/PROPERLY DISPOSED OF.
- 9.) THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
- | UTILITY OWNER: | TELEPHONE NUMBERS: | CONTACT PERSON: |
|--------------------------------------|--------------------|-----------------|
| SUNSHINE STATE ONE CALL | 811 | |
| AT&T | 561-683-2729 | DINO FARRUGGIO |
| FLORIDA POWER & LIGHT | 386-586-6403 | JOEL BRAY |
| FLORIDA PUBLIC UTILITIES CO. | 561-252-3308 | BRAD COLLINS |
| PALM BEACH COUNTY TRAFFIC OPERATIONS | 561-233-3900 | SUPERINTENDENT |
| PALM BEACH COUNTY WATER UTILITIES | 561-493-6116 | JACKIE MICHELS |
- 10.) DURING DEEP REMOVAL OF MAST ARM FOUNDATION (AND ANY OTHER POLE REMOVAL), IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ANY OTHER FOUNDATION OR STRUCTURE IN THE CLOSE PROXIMITY OF THE FOUNDATION BEING REMOVED. IF THE CONTRACTOR DETERMINES ANY STRUCTURE OR FOUNDATION IN CLOSE PROXIMITY OF FOUNDATION REMOVED COULD POTENTIALLY BE COMPROMISED, THEY SHALL SECURE IT.
- 11.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CHECKING INTERSECTION OPERATIONS AS THEY RELATE TO THE INSTALLATION OF MAST ARMS.
- 12.) TEMPORARY DETECTION REQUIRED IF THE EXISTING VEHICLE DETECTION WILL BE IMPACTED AND OUT OF SERVICE FOR MORE THAN 30 DAYS AND IF PEDESTRIAN DETECTION OUT OF SERVICE FOR MORE THAN 3 DAYS WHILE LOCATION IS UNDER CONSTRUCTION.
- 13.) ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED HAVE TO BE PROPERLY REFERENCED BY A PROFESSIONAL LAND SURVEYOR. THIS SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS. PRIOR TO BEGINNING WORK AT THE SITE, THE CONTRACTOR SHALL RETAIN A LAND SURVEYOR TO REFERENCE AND RESTORE, UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS. THE CONTRACTOR SHALL FURNISH, TO THE DISTRICT LOCATION SURVEYOR, A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- 14.) ALL SURVEY BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS, EXCEPT THAT THE LAND SURVEYOR SHALL NOT BE REQUIRED TO RESTORE THE N.G.V.D. BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE DISTRICT LOCATION SURVEYOR, WHO WILL NOTIFY THE GEODETIC INFORMATION CENTER.
- 15.) THE SIGNAL MAINTAINING AGENCY IS PALM BEACH COUNTY TRAFFIC OPERATIONS, SUPERINTENDENT, (561) 233-3900.
- 16.) ALL EXISTING SIGNALIZATION EQUIPMENT IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS PBCOTD IS NOTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR.
- 17.) EXISTING COMMUNICATIONS OR COMMAND WIRE CONNECTIONS SHALL BE MAINTAINED AT ALL SIGNALIZED LOCATIONS DURING CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, INTERCONNECT, RAILROAD FLASHING BEACONS, RAILROAD VEHICLE PREEMPTION, EMERGENCY VEHICLE PREEMPTION, AND SCHOOL ZONE FLASHERS. CONTRACTOR TO PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION INCLUDING TEMPORARY CONNECTIONS SHALL BE INCLUDED IN PAY ITEM 102-1. NOT A CELLULAR COMMUNICATION PLAN MAY NEED TO BE INSTALLED AND APPROVED BY THE COUNTY TO MAINTAIN CONTINUOUS COMMUNICATION THROUGHOUT THE PROJECT.
- 18.) NO EXISTING PEDESTRIAN CROSSING TO BE ELIMINATED AT ANY TRAFFIC SIGNAL WITHOUT PRE-APPROVAL FROM PBC TRAFFIC ENGINEERING.
- 19.) IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT STANDARD SPECIFICATIONS.

- 20.) THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD IN WIRE, OVERHEAD TRANSMISSION LINES, AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL EXCAVATE BY HAND WHERE CONFLICTS MAY EXIST. DAMAGE TO LOOPS AND ANY SIGNAL EQUIPMENT CAUSED BY CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO PALM BEACH COUNTY.
- 21.) THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
- 22.) THE PROPOSED LOCATIONS OF ALL POLES, PEDESTALS, AND OTHER EQUIPMENT REQUIRING EXCAVATION SHALL BE CONSIDERED APPROXIMATE DUE TO THE POTENTIAL OF CONFLICT WITH UNDERGROUND UTILITIES. SLIGHT ADJUSTMENTS DIRECTED BY THE ENGINEER MAY ALSO BE NECESSARY TO SATISFY SAFETY CODES.
- 23.) CONTRACTOR TO MAINTAIN EXISTING SIGNAL OPERATIONAL AT ALL TIMES.
- 24.) MAST ARM CONCRETE FOUNDATION SHALL BE POURED IN A SINGLE POUR; FOUNDATIONS THAT DO NOT COMPLY WITH THIS REQUIREMENT SHALL BE COMPLETELY REMOVED AND RE-POURED AT THE CONTRACTOR'S EXPENSE. A DRILL SHAFT INSTALLATION PLAN SHALL BE PART OF THE SHOP DRAWINGS.
- 25.) CONTRACTOR IS RESPONSIBLE FOR THE PROPER BOLT PROJECTION ABOVE FINISHED SIDEWALK GRADE. THE CONTRACTOR SHALL ENSURE THAT THE DRILL SHAFT AND BOLT PATTERNS ARE INSTALLED CORRECTLY SO THAT THE MAST ARM WILL BE ANGLED AS SHOWN ON THE PLANS.
- 26.) IF PHASE 1 (UNDERGROUND ONLY) AND PHASE 2 (ABOVE GROUND) IS PROPOSED ON PERMITTING PROJECTS, CONTRACTOR IS RESPONSIBLE TO ENSURE EXPOSED BOLTS ARE PROTECTED FROM THE ELEMENTS (INSTALL BOLT CAPS).
- 27.) FOR MAST ARM SIGNAL INSTALLATIONS, THE CONTRACTOR SHALL INSTALL WIRE MESH SUPPORT GRIPS FOR STRAIN RELIEF. ALL SIGNAL CABLE MUST BE HELD BY A STRAIN RELIEF (LE GRAND BC0750FSS) ATTACHED TO THE J HOOK INSIDE OF A MAST ARM. TO USE APPROVED EQUIVALENT, SHOP DRAWINGS SHALL BE SUBMITTED TO PBC ENGINEER FOR PRE-APPROVAL. WRITTEN APPROVAL FOR SHOP DRAWINGS SHALL BE PROVIDED AT TIME OF FINAL SIGNAL INSPECTION.
- 28.) SIGNAL CABLE - CONTRACTOR SHALL INSTALL TRAFFIC SIGNAL CABLE IN ACCORDANCE WITH PBC STANDARDS. THERE SHALL BE NO SPLICING. IF CONTINUOUS RUNS ARE NOT POSSIBLE, THEN TERMINAL BLOCK SHALL BE USED.
- 29.) CONTROLLER CABINET - THE CONTROLLER CABINET SHALL BE INSTALLED SUCH THAT THE CONTROLLER DOOR WILL OPEN AWAY FROM THE ROADWAY TRAVEL LANES AND POSITIONED TO ALLOW THE TECHNICIAN TO SEE THE INTERSECTION.
- 30.) CONTRACTOR TO PROVIDE A MINIMUM 2 FEET CABLE SLACK AT ALL PULL BOXES AND HAND HOLDS.
- 31.) PEDESTRIAN SIGNALS - EACH PEDESTRIAN SIGNAL SHALL BE FED WITH ONE 7 CONDUCTOR CABLE FOR PED SIGNAL HEAD AND ONE 4 CONDUCTOR CABLE FOR THE PED DETECTOR/PUSH BUTTON. THESE CABLES WILL RUN FROM EACH PEDESTRIAN SIGNAL/DETECTOR DIRECTLY TO CONTROL BOX WITH NO SPLICES.
- 32.) POSITION PULL BOXES, CABINETS, POLES AND OTHER OBSTRUCTIVE ITEMS CLEAR OF CURB CUT RAMPS. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACED AT LEAST 10 FEET FROM THE EDGE OF PAVEMENT. PULL BOXES SHALL NOT BE LOCATED AT THE BOTTOM OF ANY DITCH OR RETENTION AREA/POND. ALL PULL BOXES SHALL HAVE A 1' WIDE (MIN.) X 6" DEEP CONTINUOUS CONCRETE APRON SLOPED AWAY FROM BOX (TYPICALLY 1%).
- 33.) SPARE CABINET CONDUIT SHALL BE STUBBED AND CAPPED IN THE NEAREST PULL BOX. USE GEL CAPS FOR ANY SPARE/USED CONDUIT.
- 34.) THE USE OF "JONES" PLUGS FOR SIGNAL INSTALLATIONS SHALL BE PROHIBITED.
- 35.) ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.
- 36.) THE CONTRACTOR SHALL VERIFY COLOR CODES OF SIGNAL CABLE WITH PALM BEACH COUNTY BEFORE ORDERING.
- 37.) DO NOT INSTALL LOOP LEAD-INS WITHIN PAVERS OR IN THE AREA BETWEEN PAVERS AND EDGE OF CURB. FOR ANY INTERSECTIONS WITH PAVERS, THE LEAD-INS NEED TO RUN THROUGH CONDUITS UNDER THE PAVERS.
- 38.) INSTALL PEDESTRIAN SIGNALS PER ADA CLEARANCES, PROVIDING CONTINUOUS UNOBSTRUCTED PEDESTRIAN/WHEELCHAIR CIRCULATION PATH TO PEDESTRIAN AREAS (PUSH BUTTON, RAMP, ETC.).
- 39.) THE T-BASE (PEDESTRIAN PEDESTAL BASE) SHALL BE ORIENTED SO THE TECHNICIAN CAN OPEN THE DOOR AND ALSO SEE ON-COMING TRAFFIC. CAULK AS NEEDED IF THERE IS A LARGE GAP BETWEEN CONCRETE FOUNDATION/SIDEWALK AND THE PEDESTAL BASE.
- 40.) PEDESTAL POLE BASE NUT SHOULD BE LARGE ENOUGH TO COVER HOLE AND WASHER.
- 41.) ALL SET SCREWS MUST BE INSTALLED (NONE SHOULD BE MISSING). MOST MANUFACTURERS HAVE THEM DESIGNED INTO THE PEDESTRIAN BASES FROM FACTORY. WHEN PEDESTAL POLE IS SET AT PROPER DIRECTION, DRILL AND TAP HOLE THRU BASE AND ALUMINUM CONDUIT. SET SCREWS SHOULD GO THROUGH SIDE OF BASE INTO PEDESTAL POLE TO PENETRATE INTO PIPE TO KEEP IT FROM ROTATING. USING A 1/2" X 20 SS HEX HEAD BOLT WILL LOCK THE PIPE FROM TURNING.
- 42.) BOLTS SHOULD BE LONG ENOUGH TO PROTRUDE THROUGH THE THREADED HOLE AND HOLD WASHER AND NUT.
- 43.) CAULKING/SEALANT TO BE APPLIED AT ALL SIGNALS FLANGE CONNECTIONS, INCLUDING BUT NOT LIMITED TO THE TOP OF THE FLASHER SIGNAL.
- 44.) THE CONTRACTOR SHALL BUILD NEW ELECTRICAL POWER SERVICE AND DISCONNECT ON MONUMENT WITH A MINIMUM HEIGHT OF EIGHT (8) FEET.
- 45.) THE CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATION(S) OF ELECTRICAL SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT SWITCH, TRANSFORMER AND PULL BOXES.
- 46.) POWER SOURCE - ON MODIFICATIONS/UPGRADES TO EXISTING TRAFFIC SIGNALS A) IF ADDING LOAD, THEN ADD METER; B) IF NOT ADDING LOAD (IE JUST RELOCATING SAME EQUIPMENT) KEEP EXISTING POWER SOURCE. ALL NEW INSTALLED SIGNALS WILL BE METERED. CONTRACTOR SHALL COORDINATE WITH PEL FOR NEW INSTALLATION AS REQUIRED. ELECTRIC SERVICE TO BE SET UP IN CONTRACTOR'S NAME, THEN TRANSFERRED TO PBC TRAFFIC DIVISION AFTER 90 DAY BURN AND FINAL ACCEPTANCE.
- 47.) THE CONTRACTOR SHALL COORDINATE WORK SCHEDULE, COORDINATE TIMING AND AUTHORIZATION OF POWER SERVICE WITH PALM BEACH COUNTY TRAFFIC ENGINEERING. CONTACT TIMING ENGINEER (561-684-4030) 2 WEEKS IN ADVANCE OF CONSTRUCTION AND TO COORDINATE TIMING CHANGES PRIOR TO LOOP DAMAGE. CONTACT PBC TRAFFIC OPERATIONS (561-233-3900) TO COORDINATE REPLACING THE OLD SCHOOL FLASHERS AND RETIMING THE NEW SCHOOL FLASHERS.
- 48.) THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE MAINTAINING AGENCY FOR FINAL INSPECTION. ALLOW TWO (2) WEEKS FOR INSPECTION. TO SCHEDULE A SIGNAL INSPECTION, PLEASE EMAIL ENG-TRAFF-INSPECTION@PBCGOV.ORG.
- 49.) AT THE TIME OF FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL FURNISH PALM BEACH COUNTY WITH TWO (2) COMPLETE COPIES OF SIGNED AND SEALED AS-BUILT PLANS AND CONSULTANT TO PROVIDE ELECTRONIC CADD FILES.
- 50.) A 90 DAY BURN-IN PERIOD IS REQUIRED FOR ALL TRAFFIC SIGNAL EQUIPMENT. THE BURN-IN PERIOD WILL COMMENCE UPON A WRITTEN CONDITIONAL ACCEPTANCE BY THE COUNTY AND WILL TERMINATE NINETY (90) CONSECUTIVE DAYS, THEREAFTER, UNLESS AN EQUIPMENT MALFUNCTION OCCURS.

- 51.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PERFORMING ALL TREE TRIMMING AND TREE REMOVAL.
- 52.) AFTER THE SIGNAL INSPECTION IS COMPLETED AND ALL OUTSTANDING ISSUES ARE RESOLVED (PUNCH LIST ITEMS COMPLETED), THE CONTRACTOR CAN REQUEST PALM BEACH COUNTY TO SCHEDULE THE SIGNAL ACTIVATION. CONTRACTOR OR CEI SHALL REQUEST ACTIVATION TWO WEEKS IN ADVANCE.
- 53.) DURING CONSTRUCTION OF NEW SIGNAL EQUIPMENT AT EXISTING SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL COORDINATE THEIR ACTIVITIES TO ENSURE THAT FUNCTIONING TRAFFIC SIGNALS REMAIN VISIBLE TO MOTORISTS.
- 54.) SPAN WIRE SIGNALS ONLY - DISCONNECTS FOR SIGNAL HEADS ON SPAN WIRE SIGNALS SHALL BE MODEL #1150-18-T APL 659-004-007 WITH TRI SPAN WIRE CLAMP ADAPTER MODEL #1156-T APL 659-016-002. BOTH ARE MANUFACTURED BY ENGINEERING CASTINGS AND SUPPLIED BY PELCO PRODUCTS. ALL EQUIPMENT TO BE APPROVED BY PBC TRAFFIC PRIOR TO ORDERING VIA THE SHOP DRAWINGS.

MAINTENANCE OF TRAFFIC:

- 55.) THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS AND SUBMIT THEM FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD AND THE TRAFFIC DIVISION -- NOT SECTION AT LEAST TWO (2) WEEKS IN ADVANCE OF PROPOSED WORK. NO LANE CLOSURES ARE ALLOWED DURING AM AND PM PEAK HOURS (BASED ON LANE CLOSURE ANALYSIS).
- 56.) THE CONTRACTOR SHALL INSTALL CONSTRUCTION SIGNING PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL MAINTAIN SIGNING DURING ALL PHASES OF CONSTRUCTION.
- 57.) NOTIFICATION OF PROPOSED LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED, IN WRITING, 14 BUSINESS DAYS IN ADVANCE OF CLOSURE OR DETOUR.
- 58.) AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSING CAUSES EXTENDED CONGESTION, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME AS TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 59.) THE ALTERATION OF TRAFFIC TRAVEL-WAYS TO CREATE A WORK ZONE SHALL NOT COMMENCE UNTIL ALL LABOR AND MATERIALS ARE READY FOR THE CONSTRUCTION IN THAT ZONE.
- 60.) REGULATORY SPEED DURING CONSTRUCTION SHALL REMAIN AT THE POSTED SPEED.
- 61.) ALL PEDESTRIAN DETOURS FOR NOT TO BE PRE-APPROVED BY PBC TRAFFIC ENGINEERING DIVISION.
- 62.) ANY SIGNAL MODIFICATION NECESSARY IN ORDER TO CARRY OUT PROJECT CONSTRUCTION SHALL BE SUBMITTED TO PBC TRAFFIC ENGINEERING DIVISION FOR APPROVAL. SIGNAL MODIFICATION SUBMITTAL TO BE IN A FORM OF A LEGIBLE PLAN THAT CLEARLY SHOWS THE SIGNAL HEAD FACES AND ALIGNMENT WITH THE PROPOSED LANE MODIFICATION, AND SIGNAL PHASING. ALL SIGNAL MODIFICATIONS TO FOLLOW MUTCD MINIMUM REQUIREMENTS.
- 63.) NOT PLANS WILL NOT BE APPROVED UNTIL THE SIGNAL MODIFICATION PLANS HAVE BEEN APPROVED BY PBC TRAFFIC ENGINEERING.
- 64.) THE CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS OR PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL THROUGH THE WORK ZONE. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS OR PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION.
- 65.) WITH NEW TRAFFIC SIGNAL INSTALLATION AND PRIOR TO ACTIVATION: VARIABLE MESSAGE SIGNS SHALL BE INSTALLED SEVEN (7) DAYS BEFORE AND SEVEN (7) DAYS AFTER SIGNAL ACTIVATION AS FOLLOWS:

PRIOR TO SIGNAL ACTIVATION



PANEL 1



(DATE SHOWN IS AN EXAMPLE ONLY)

AFTER SIGNAL ACTIVATION



PANEL 2
FLASH



1/13/2023



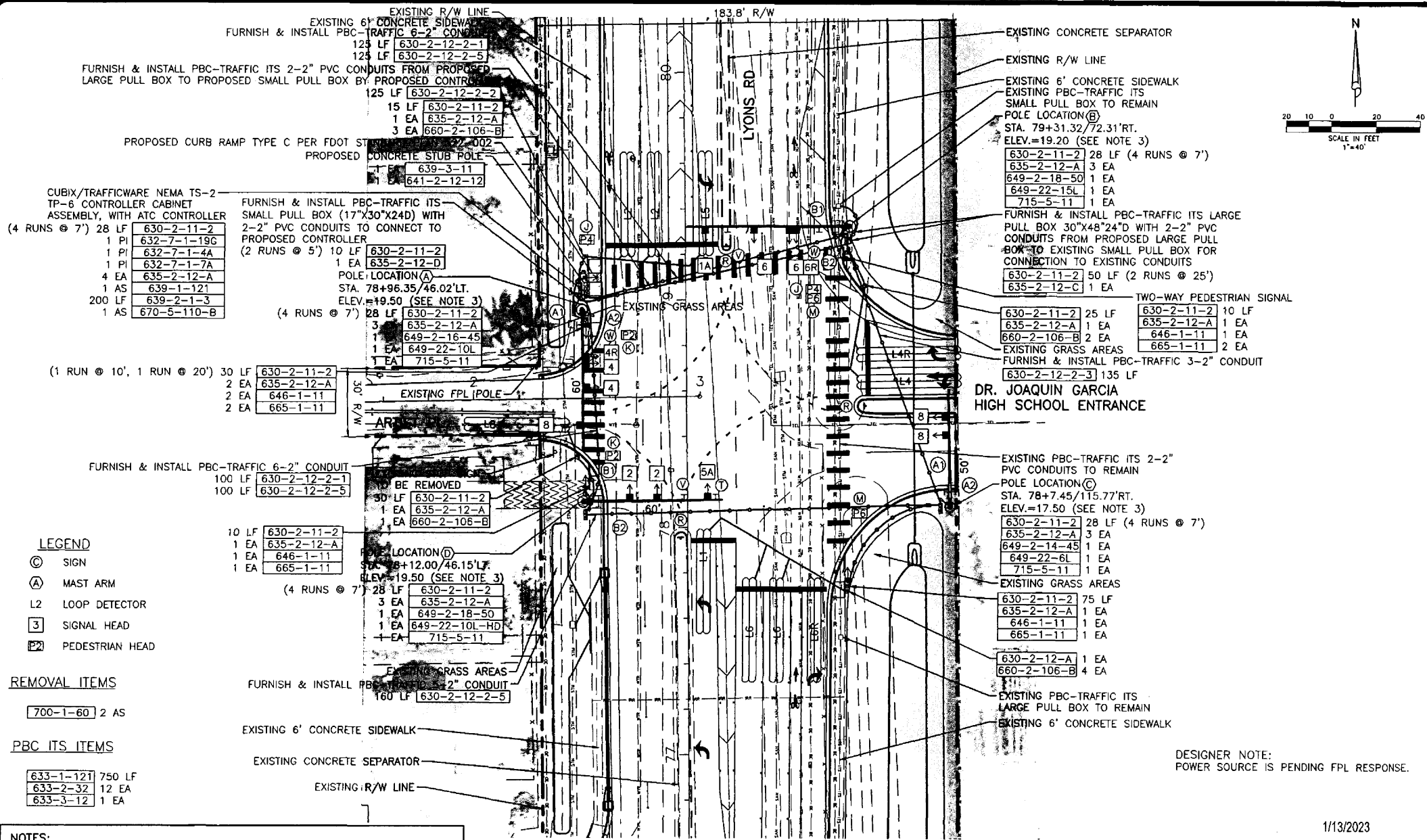
PATRICIA MARIE BARR, P.E., STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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DESIGN				
T.B.	C.D.	CHECKED A.L.	APPROVED R.R.	DATE

ARTIST PLACE AT LYONS ROAD			
P.B.C. PROJECT #20105048			
P.B.C. INTERSECTION #39850			
GENERAL NOTES			
JOB NO. 22-083	DRAWING NO. 22083T03	SHEET T-3	OF T-8



- LEGEND**
- Ⓒ SIGN
 - Ⓐ MAST ARM
 - L2 LOOP DETECTOR
 - 3 SIGNAL HEAD
 - P2 PEDESTRIAN HEAD

REMOVAL ITEMS

700-1-60 2 AS

PBC ITS ITEMS

633-1-121 750 LF
633-2-32 12 EA
633-3-12 1 EA

- NOTES:**
- ALL STATIONS/OFFSETS ARE MEASURED W.R.T. THE BASELINE OF LYONS ROAD.
 - REFER TO ROADWAY AND SIGNING & PAVEMENT MARKING PLANS BY HSQ GROUP, INC. FOR PROJECT NO. 2010504B.
 - TOP OF FOUNDATION FOR MAST ARMS A, B, C & D SHALL BE 6" ABOVE EXISTING GRADE ELEVATION AT CENTER OF PROPOSED FOUNDATION. CONTRACTOR SHALL ADJUST TOP OF FOUNDATION ELEVATION AS NEEDED TO MAINTAIN 6" OFFSET BETWEEN TOP OF FOUNDATION AND EXISTING GRADE.

PATRICIA MARIE BARR, P.E., STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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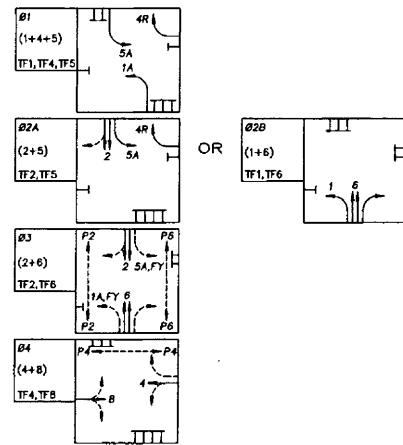
SIMMONS & WHITE
ENGINEERING & PLANNING CONSULTING SINCE 1988
2261 Macgregor Blvd., Suite 200, Palm Beach, FL 33407-6161 (561) 470-7840

DESIGN	DRAWN	CHECKED	APPROVED	DATE
T.B.	C.O.	A.L.	R.R.	

ARTIST PLACE AT LYONS ROAD
P.B.C. PROJECT #2010504B
P.B.C. INTERSECTION #39850
SIGNALIZATION PLAN

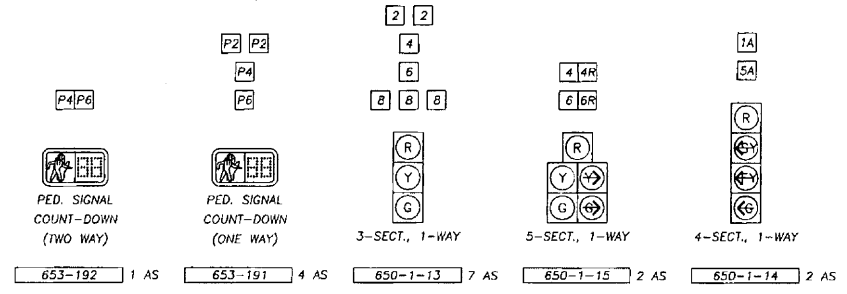
JOB NO.	DRAWING NO.	SHEET OF
22-083	22083T04	T-4 T-8

SOP 7

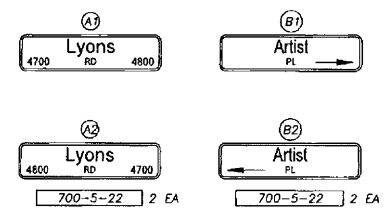


LOOP DETECTOR CONNECTION			
DETECTOR UNIT NO.	DETECTOR OPERATION	CONNECTED TO LOOP	CONNECTED TO TIMING FUNCTION
1	NORMAL	L1	TF1
2	NORMAL	L2	TF2
3	NORMAL/DELAY	L4, L4R	TF4
4	NORMAL	L5	TF5
5	NORMAL	L6	TF6
6	DELAY	L6R	TF6
7	DELAY	L8	TF8

DETAIL OF SIGNAL HEADS
N.T.S.

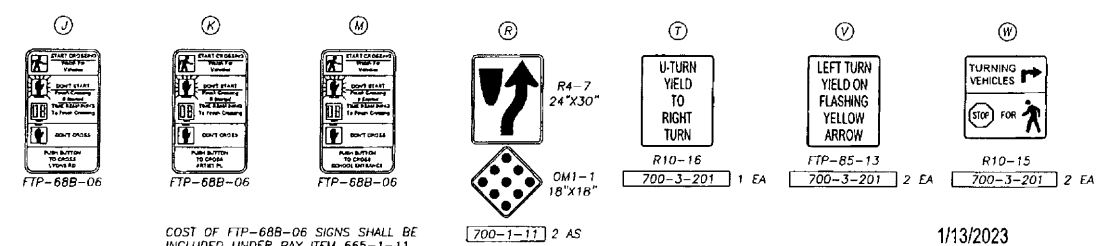


DETAIL OF STREET NAME SIGNS
N.T.S.



-MAXIMUM SIGN DIMENSION 8' LENGTH MAX. AND 2' HEIGHT
-SIGNS SHALL MEET PALM BEACH COUNTY TYPICALS & MUTCD. REFER TO PALM BEACH COUNTY TYPICALS FOR DETAILS ON SIGN INSTALLATION, DIMENSION & LETTERING.

DETAIL OF SIGNS
N.T.S.



NOTES:

- CONTROLLER OPERATIONS:
 - THE CONTROLLER SHALL OPERATE AS SIGNAL OPERATING PLAN 7.
 - MAJOR STREET IS LYONS ROAD AND MINOR STREET IS ARTIST PLACE.
 - FLASHING OPERATION TO BE YELLOW FOR MAJOR STREET MOVEMENTS 2 & 6 AND RED FOR ALL OTHER MOVEMENTS.
- ACTUAL SIGNAL TIMINGS AND COORDINATION PLANS ARE TO BE DETERMINED BY THE PALM BEACH COUNTY REPRESENTATIVE.
- THE SPEED LIMIT ON LYONS ROAD IS 45 MPH.

COST OF FTP-68B-06 SIGNS SHALL BE INCLUDED UNDER PAY ITEM 665-1-11.

1/13/2023

PATRICIA MARIE BARR, P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56925

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY PATRICIA MARIE BARR, P.E. ON 1/13/2023 USING A SHA-1 AUTHENTICATION CODE.

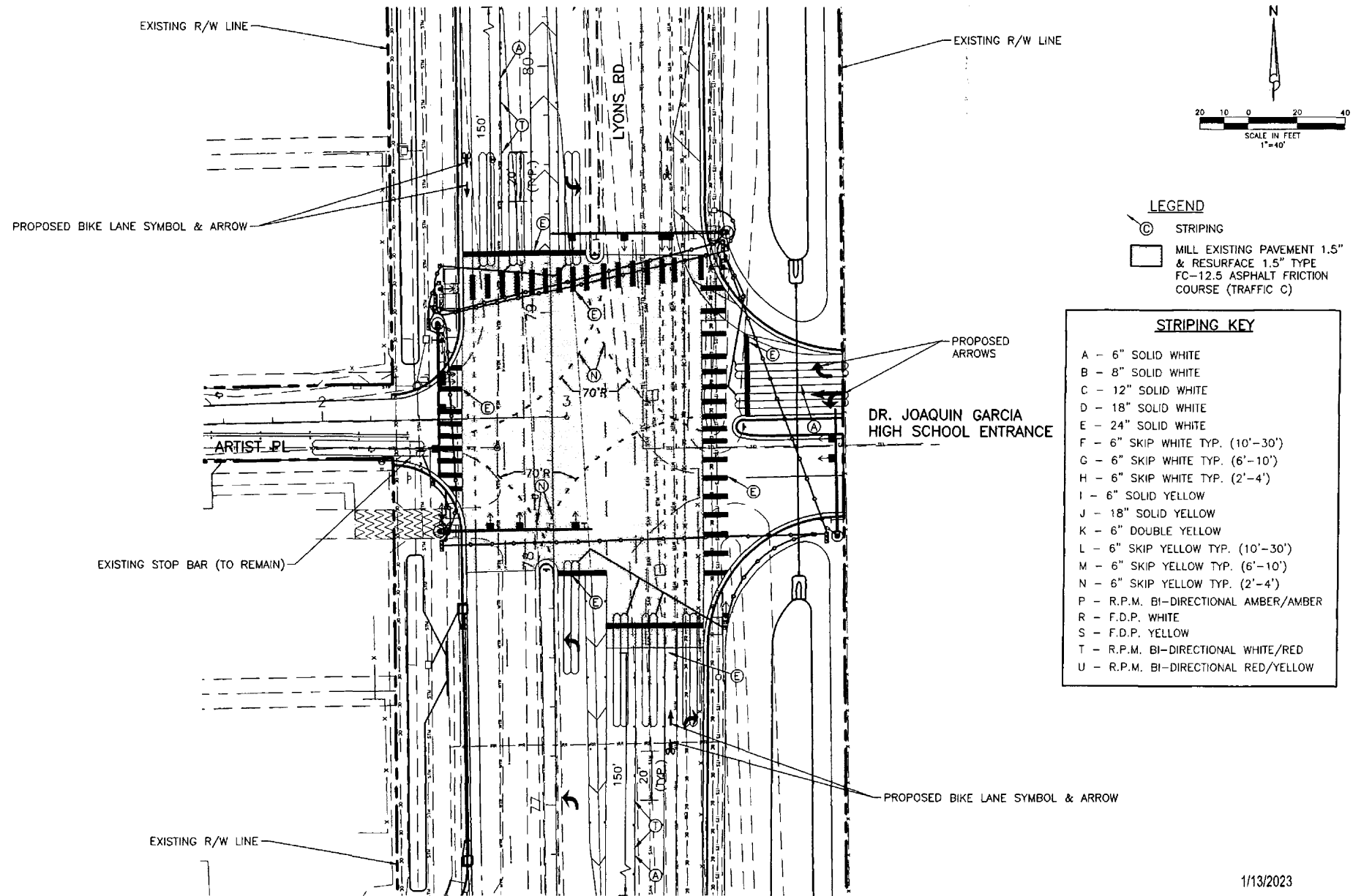
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SIMMONS & WHITE
ENGINEERING & PLANNING & CONSULTING & SURVEYING
3381 Lakeshore Blvd West, Suite 300 West Palm Beach, Florida 33409 (561) 476-7666

DESIGN	DRAWN	CHECKED	APPROVED	DATE
T.B.	C.O.	A.L.	R.R.	

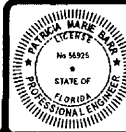
ARTIST PLACE AT LYONS ROAD
P.B.C. PROJECT #20105048
P.B.C. INTERSECTION #39850
SIGNALIZATION PLAN

JOB NO.	DRAWING NO.	SHEET OF
22-083	22083105	T-5 T-8



NOTES:

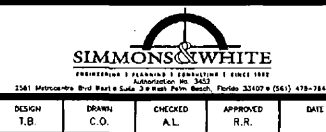
1. ALL STATIONS/OFFSETS ARE MEASURED W.R.T. THE BASELINE OF LYONS ROAD.
2. REFER TO ROADWAY AND SIGNING & PAVEMENT MARKING PLANS BY HSQ GROUP, INC. FOR PROJECT NO. 2010504B.



PATRICIA MARIE BARR, P.E., STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 56925

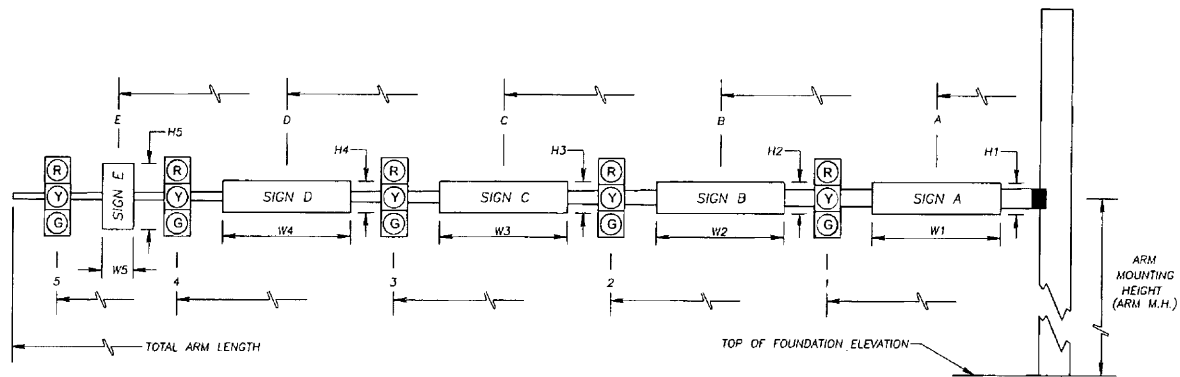
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ARTIST PLACE AT LYONS ROAD
P.B.C. PROJECT #2010504B
P.B.C. INTERSECTION #39850
PAVEMENT MARKING PLAN

DESIGN T.B.	DRAWN C.O.	CHECKED A.L.	APPROVED R.R.	DATE	JOB NO. 22-0B3	DRAWING NO. 22083705A	SHEET OF T-5A T-8
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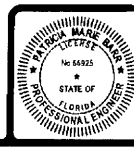
[illegible]

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

(A) POWDER COAT OR PAINT TO MEET CURRENT FDOT SPECIFICATIONS

(1) TOP OF FOUNDATION FOR MAST ARMS A, B, C & D SHALL BE 6" ABOVE EXISTING GRADE ELEVATION AT CENTER OF PROPOSED FOUNDATION. CONTRACTOR SHALL ADJUST TOP OF FOUNDATION ELEVATION AS NEEDED TO MAINTAIN 6" OFFSET BETWEEN TOP OF FOUNDATION AND EXISTING GRADE.

(2) MAST ARM D ANALYZED FOR FUTURE ADDITIONAL 3-SECTION HEAD AT 42' & SIGN (V) RELOCATION FROM 43' TO 48.5'.



PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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DESIGN T.B.	DRAWN C.D.	CHECKED A.L.	APPROVED R.R.	DATE
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ARTIST PLACE AT LYONS ROAD
P.B.C. PROJECT #2010504B
P.B.C. INTERSECTION #39850
MAST ARM TABULATION

JOB NO. 22-083	DRAWING NO. 22083T06	SHEET OF T-6 T-8
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[illegible]

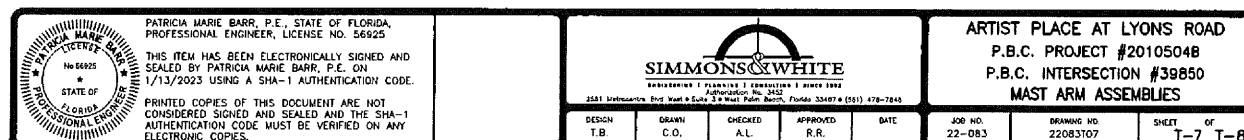
NOTES [Notes Date 11-01-16]:

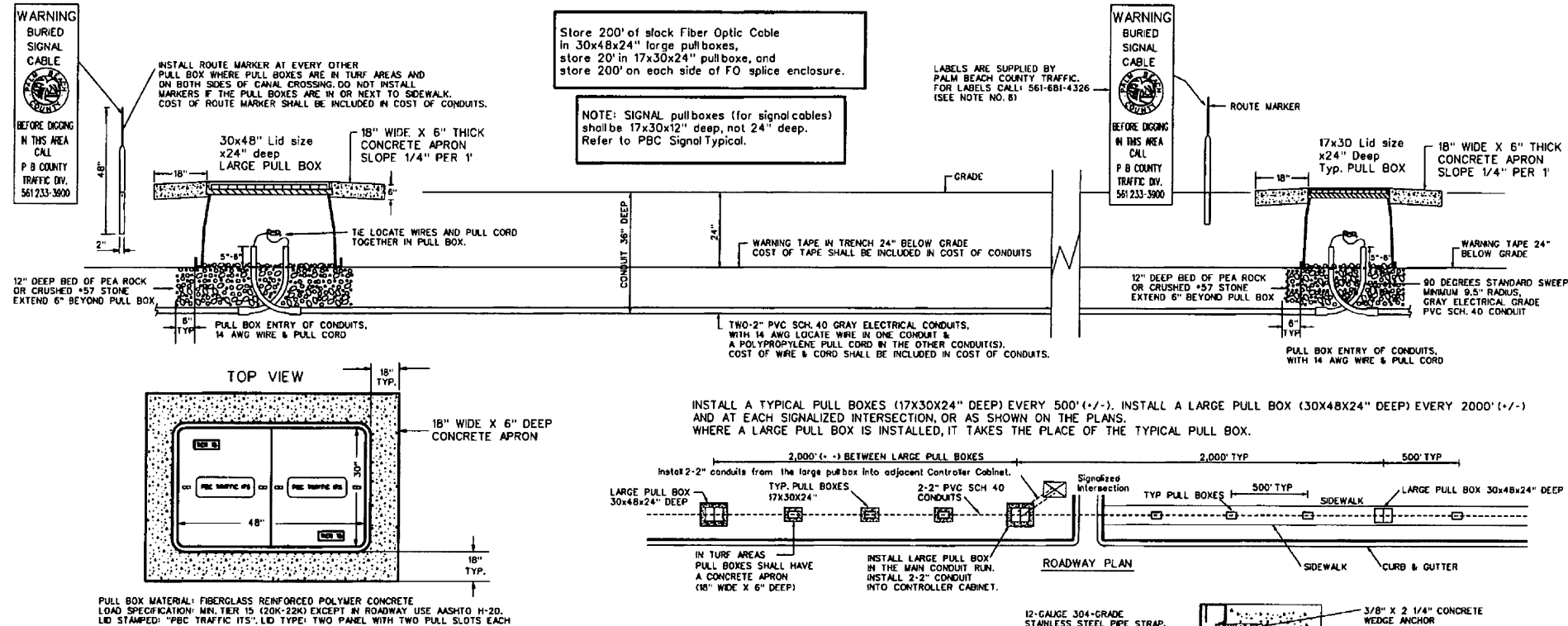
1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
3. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
4. Work with Indexes 649-030 and 649-031.

GEOTECHNICAL NOTES:

1. The Contractor shall anticipate difficult drilled shaft installation due to the presence of loose to very loose sand, or compacted fill, or any combination of these layers. The presence of difficult soil conditions may occur at varying depths below the ground. The Contractor shall anticipate potential cave-in of the sandy soils, and difficult/impossible conditions to retain bentonite/polymer slurry inside the drilled holes. Special equipment and/or procedures may be required to excavate and stabilize excavations.

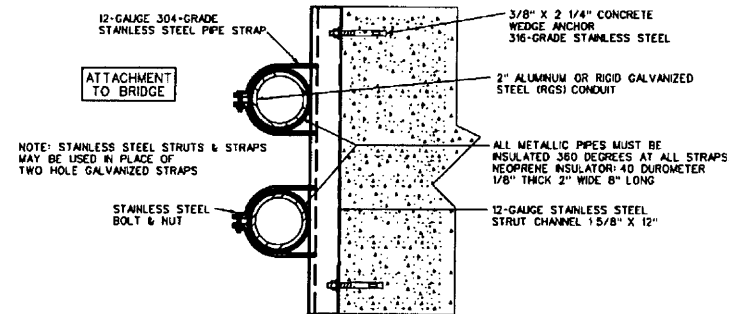
1/13/2023



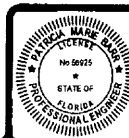


NOTES:

1. Typical (T-14) for applications not covered in this typical the contractor shall refer to the FDOT Standards Specifications 630 for Road and Bridge Construction.
2. PullBoxes and Lids in sidewalks and turf areas shall be a minimum TIER 15 (20K-22K). In vehicular traffic areas (in the roadway) pullboxes shall be AASHTO H-20. PullBox Lid shall be stamped "PBC TRAFFIC ITS". Large PullBox Lids (30x48") shall have two panels with two pulling slots in each panel.
3. Underground Conduits and Sweeps shall be gray-electrical grade 2" PVC SCH 40 or HDPE SDR 11. Install conduits 36" below grade. Ends of conduit shall be sealed with water resistance duct seal.
4. One run of conduit between pullboxes shall not contain more than four (4) 90 degree bends (360 degrees) including pullbox bends.
5. Signalized Intersections, install two-2" PVC SCH. 40 conduits from the large pullbox into the traffic controller cabinet.
6. Locate Wire, install a 14 AWG insulated THWN strand copper wire (locate wire) in one conduit and a polypropylene pull cord in the other conduit(s). The locate wire, pull cord, warning tape, and guide post shall be included in the cost of the conduits.
7. Concrete Apron, all pullboxes shall be provided with concrete aprons when not located within sidewalk. Aprons shall be 18" wide x 6" thick sloped 1/4" per 1' away from pullbox. Apron shall be Min. 2,500 PSI non structural Class I concrete. The cost of the apron is to be included in the cost to furnish and install pullbox.
8. Pedestrian Ramp, pullbox shall not be placed in a pedestrian ramp or slopped area of a pedestrian ramp.
9. Conduits in PullBox shall be extended up 5" to 6" from the bottom of the pullbox.
10. Bridge Attachment, when attaching conduits to bridge, wrap neoprene (rubber) gasket completely around galvanized or aluminum IMC conduit at each pipe strap to insulate conduit from pipe strap. Size of neoprene (rubber) insulator: 1/8" thick x 2" wide x 8" long.
11. Warning Tape: 3" wide, 6 mil thick, intended for burial and use as an underground utility warning notice, marked "CAUTION BURIED FIBER OPTIC". Tape shall be orange with black 2" high block letters on non color fading material. The marking tape shall be buried 24" below grade in the conduit trench from pullbox to pullbox. Cost included in cost of conduits.
12. Warning Labels, Palm Beach County Traffic Engineering, 2300 N Jog Rd, Tel.: 561-681-4326 will supply the Contractor with two warning label for each route marker.
13. PBC Engineer may request two or more 2" conduits as needed.



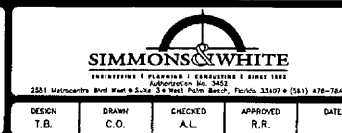
1/13/2023



PATRICIA MARIE BARR, P.E., STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 58925

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY PATRICIA MARIE BARR, P.E. ON 1/13/2023 USING A SHA-1 AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



ARTIST PLACE AT LYONS ROAD
P.B.C. PROJECT #20105048
P.B.C. INTERSECTION #39850
SIGNAL DETAILS

JOB NO.	DRAWING NO.	SHEET OF
22-083	22083T08	T-8 T-8

INCREASE PENALTY RIDER
No. 1

BOND NO. 0243453

To be attached and form a part of Bond No. 0243453 dated the 23rd day of August, 2022, executed by Berkley Insurance Company as surety, on behalf of Gerelco Traffic Controls, Inc. as current principal of record, and in favor of the Palm Beach County Board of County Commissioners, as Obligee for Annual Traffic Signal Construction Contract, Project No. 2022052, and in the amount of One Million and 00/100 Dollars (\$1,000,000.00).

In consideration of the agreed premium charged for this bond, it is understood and agreed that Berkley Insurance Company hereby consents that effective from the 23rd day of August, 2022, said bond shall be amended as follows:

THE BOND PENALTY SHALL BE Increased:

BY: One Million Five Hundred Thousand and 00/100 Dollars (\$1,500,000.00)

FROM: One Million and 00/100 Dollars (\$1,000,000.00)

TO: Two Million Five Hundred Thousand and 00/100 Dollars (\$2,500,000.00)

The Increase of said bond penalty shall be effective as of the 23rd day of August, 2022, and does hereby agree that the continuity of protection under said bond subject to changes in penalty shall not be impaired hereby, provided that the aggregate liability of the above mentioned bond shall not exceed the amount of liability assumed by it at the time the act and/or acts of default were committed and in no event shall such liability be cumulative.

Signed, sealed and dated this 24th day of March, 2023.

Gerelco Traffic Controls, Inc.
PRINCIPAL
BY: Jake Ridinger Digitally signed by Jake Ridinger
Date: 2023.03.24 14:59:03 -04'00'

Berkley Insurance Company
SURETY
BY: Brett Rosen
Brett Rosenhaus, Attorney-in-Fact
& Florida Licensed Agent

POWER OF ATTORNEY
BERKLEY INSURANCE COMPANY
WILMINGTON, DELAWARE

Exhibit B
Page 2 of 3

No. BI-492e

NOTICE: The warning found elsewhere in this Power of Attorney affects the validity thereof. Please review carefully.

KNOW ALL MEN BY THESE PRESENTS, that BERKLEY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Delaware, having its principal office in Greenwich, CT, has made, constituted and appointed, and does by these presents make, constitute and appoint: *Brett Rosenhaus or Dale A. Belis of Acrisure, LLC dba Nielson, Rosenhaus & Associates of Delray Beach, FL* its true and lawful Attorney-in-Fact, to sign its name as surety only as delineated below and to execute, seal, acknowledge and deliver any and all bonds and undertakings, with the exception of Financial Guaranty Insurance, providing that no single obligation shall exceed **One Hundred Million and 00/100 U.S. Dollars (U.S.\$100,000,000.00)**, to the same extent as if such bonds had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office in their own proper persons.

This Power of Attorney shall be construed and enforced in accordance with, and governed by, the laws of the State of Delaware, without giving effect to the principles of conflicts of laws thereof. This Power of Attorney is granted pursuant to the following resolutions which were duly and validly adopted at a meeting of the Board of Directors of the Company held on January 25, 2010:

RESOLVED, that, with respect to the Surety business written by Berkley Surety, the Chairman of the Board, Chief Executive Officer, President or any Vice President of the Company, in conjunction with the Secretary or any Assistant Secretary are hereby authorized to execute powers of attorney authorizing and qualifying the attorney-in-fact named therein to execute bonds, undertakings, recognizances, or other suretyship obligations on behalf of the Company, and to affix the corporate seal of the Company to powers of attorney executed pursuant hereto; and said officers may remove any such attorney-in-fact and revoke any power of attorney previously granted; and further
RESOLVED, that such power of attorney limits the acts of those named therein to the bonds, undertakings, recognizances, or other suretyship obligations specifically named therein, and they have no authority to bind the Company except in the manner and to the extent therein stated; and further
RESOLVED, that such power of attorney revokes all previous powers issued on behalf of the attorney-in-fact named; and further
RESOLVED, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligation of the Company; and such signature and seal when so used shall have the same force and effect as though manually affixed. The Company may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Company, notwithstanding the fact that they may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, the Company has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 14th day of November, 2019.

Attest: _____ Berkley Insurance Company
(Seal) By Ira S. Lederman By Jeffrey M. Hafter
Executive Vice President & Secretary Senior Vice President

WARNING: THIS POWER INVALID IF NOT PRINTED ON BLUE "BERKLEY" SECURITY PAPER.

STATE OF CONNECTICUT)
) ss:
COUNTY OF FAIRFIELD)

Sworn to before me, a Notary Public in the State of Connecticut, this 14th day of November, 2019, by Ira S. Lederman and Jeffrey M. Hafter who are sworn to me to be the Executive Vice President and Secretary, and the Senior Vice President, respectively, of Berkley Insurance Company.

MARIA C RUNDBAKEN
NOTARY PUBLIC
CONNECTICUT
MY COMMISSION EXPIRES
APRIL 30, 2024

Maria C Rundbaken
Notary Public, State of Connecticut

CERTIFICATE

I, the undersigned, Assistant Secretary of BERKLEY INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing is a true, correct and complete copy of the original Power of Attorney; that said Power of Attorney has not been revoked or rescinded and that the authority of the Attorney-in-Fact set forth therein, who executed the bond or undertaking to which this Power of Attorney is attached, is in full force and effect as of this date.

Given under my hand and seal of the Company, this 24th day of March, 2023
(Seal) Vincent P. Forte
Vincent P. Forte

Please **verify the authenticity** of the instrument attached to this Power by:

Toll-Free Telephone: (800) 456-5486; or

Electronic Mail: BSGInquiry@berkleysurety.com

Any written notices, inquiries, claims or demands to the Surety on the bond attached to this Power should be directed to:

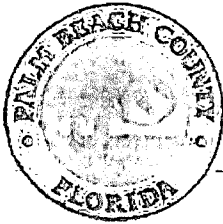
Berkley Surety
412 Mount Kemble Ave.
Suite 310N
Morristown, NJ 07960
Attention: Surety Claims Department

Or

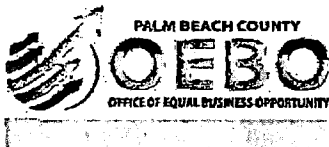
Email: BSGClaim@berkleysurety.com

Please include with all communications the bond number and the name of the principal on the bond. Where a claim is being asserted, please set forth generally the basis of the claim. In the case of a payment or performance bond, please also identify the project to which the bond pertains.

Berkley Surety is a member company of W. R. Berkley Corporation that underwrites surety business on behalf of Berkley Insurance Company, Berkley Regional Insurance Company and Carolina Casualty Insurance Company.



Office of
Equal Business Opportunity
50 South Military Trail, Suite 202
West Palm Beach, FL 33415
(561) 616-6840
www.pbcgov.com/oebo



**Palm Beach County
Board of County
Commissioners**

Robert S. Weinroth, Mayor

Gregg K. Weiss, Vice Mayor

Maria G. Marino

Dave Kerner

Maria Sachs

Melissa McKinlay

Mack Bernard

County Administrator

Verdenia C. Baker

"An Equal Opportunity
Affirmative Action Employer"

Official Electronic Letterhead

INTER-OFFICE MEMORANDUM

Date: Thursday, January 20, 2022

To: David L. Ricks, County Engineer
Engineering and Public Works

From: Tonya Davis Johnson, Director *T. Davis*
Office of Equal Business Opportunity

Re: Approval of Request for Waiver of API Requirements for
Annual Traffic Signal Construction Contract Palm Beach
County Project #2022052

Your Request for Waiver of API Requirements for the above named project was received on Thursday, January 06, 2022 and has been reviewed. It is the determination of the Office of Equal Business Opportunity (OEBO) that the request for Waiver of API Requirements is **APPROVED**.

The OEBO is granting this waiver based upon the determination that sufficient qualified S/M/WBEs providing the goods or services required by the contract are unavailable in Palm Beach County despite every reasonable attempt to locate them.

If you have any questions, please contact Allen Gray at 561-616-6842 or email at agray@pcgov.org.

Thank you.

cc: Allen Gray, Manager

Attachment 3
Page 1 of 1