

**FLORIDA DEPARTMENT OF TRANSPORTATION - DISTRICT FOUR  
MAINTENANCE MEMORANDUM OF AGREEMENT**

**THIS AGREEMENT** made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2021 by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the **DEPARTMENT**, and the **City of Fort Lauderdale**, a municipal corporation existing under the Laws of Florida, hereinafter called the **AGENCY**.

**WITNESSETH:**

**WHEREAS**, the **DEPARTMENT** has jurisdiction over State Road A1A at SE 5<sup>th</sup> Street M.P. 2.795; and

**WHEREAS**, as part of the continual updating of the State of Florida Highway System, the **DEPARTMENT**, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain State Road A1A at SE 5<sup>th</sup> Street M.P. 2.795. (within the limits of the **AGENCY**); and

**WHEREAS** the **DEPARTMENT** seeks to install two new mast arm assemblies along State Road A1A at SE 5<sup>th</sup> Street M.P. 2.795;

**WHEREAS**, the **AGENCY** has requested of the **DEPARTMENT** that the mast arms be powder coated solar black to match the existing mast arms along State Route A1A within the City of Fort Lauderdale; and

**WHEREAS** it is the intent of the **AGENCY** and the **DEPARTMENT** that the **AGENCY** shall maintain the solar black powder coating finish on the mast arm assemblies (includes upright pole and arm) within the project limits under Project Number 436219-3-72-04/05 along State Road A1A at SE 5<sup>th</sup> Street M.P. 2.795; hereinafter called **IMPROVEMENTS**; and

**WHEREAS**, the Project involves the scope of work as described within **Exhibit A** (Project Location and Location Map) and **Exhibit B** (Signalization Plans), which will benefit the **AGENCY**; and

**WHEREAS**, the **AGENCY** has agreed to enter into a Locally Funded Agreement (LFA) to fund the costs differential to powder coat the **IMPROVEMENTS**, to be executed concurrently with this **AGREEMENT** as indicated in **Exhibit A** and **Exhibit B**; and

**WHEREAS**, Broward County, (the maintaining signal **AGENCY**), has no objection to this project, as indicated in **Exhibit C** (Broward County Acknowledgement Letter); and

**WHEREAS** the parties hereto mutually recognize the need for entering into an **AGREEMENT** designating and setting forth the responsibilities of each party; and

**WHEREAS** the **AGENCY** by Resolution No. \_\_\_\_\_ dated \_\_\_\_\_, 20\_\_\_\_, attached hereto and by this reference made a part hereof, desires to enter into this **AGREEMENT** and authorizes its officers to do so;

**NOW THEREFORE**, for and in consideration of the mutual benefits to flow each to the other, the parties covenant and agree as follows:

1. RECITALS

The recitals set forth above are true and correct and are deemed incorporated herein.

2. INSTALLATION OF FACILITIES

The **DEPARTMENT** shall construct under Project No. 436219-3-72-04/05 the **IMPROVEMENTS** as detailed in **Exhibit A** and **Exhibit B**, which will benefit the **AGENCY**.

3. MAINTENANCE OF FACILITIES

A. The **AGENCY** agrees to maintain the **IMPROVEMENTS** as provided herein. Maintenance by the **AGENCY** will include repair, restoration, and general maintenance of the solar black powder coated mast arm assemblies (includes upright pole and arm) within the project limits. Non-standard items are defined as items requested by the **AGENCY** that are not defined in the **DEPARTMENT'S** Design Standards. This includes the **IMPROVEMENTS** within the project limits as referenced in **Exhibit A**.

- 1) The **AGENCY** shall be solely responsible for the maintenance and preservation of **IMPROVEMENTS** within the project limits. The **AGENCY** shall inspect the solar black powder coatings on a yearly basis. All Maintenance or restoration activities shall be performed in accordance with a Maintenance Plan, as approved by the **DEPARTMENT**, as per the requirements in **Exhibit D** (Maintenance Plan Requirements).
- 2) The above-named functions to be performed by the **AGENCY** may be subject to periodic inspections by the **DEPARTMENT** at the discretion of the **DEPARTMENT**. Such inspection findings will be shared with the **AGENCY** and shall be the basis of all decisions regarding, reworking or **AGREEMENT** termination. The **AGENCY** shall not change or deviate from the **AGENCY's** approved Maintenance Plan as referenced in **Exhibit D** without approval from the **DEPARTMENT**.
- 3) The **AGENCY** shall be solely responsible for any damages to surrounding property, real estate, vehicles, pedestrians, attachments to the light poles, or other assets occurring as a result of maintaining the solar black powder coated operations and shall repair such damage to the satisfaction of the **DEPARTMENT** at no expense to the **DEPARTMENT**.

B. It is understood and agreed by the parties that upon "final acceptance" (as that term is described in the Standard Specifications for Roadway and Bridge Construction, as amended by contract documents section 5-11) by the **DEPARTMENT** of the Project and Notice thereof to the **AGENCY**, the **AGENCY** shall be responsible for maintenance of the Project in accordance with the following Federally and State accepted standards (current editions at the time of execution of this **AGREEMENT** and any amendments hereafter) and all costs related thereto: (a) FDOT Design Manual (FDM), (b) FDOT Plans Preparation Manual (PPM), (c) Florida Green Book, (d) Standard Specifications for Roadway and Bridge Construction, as amended, (e)

FDOT Design Standards and (f) Manual on Uniform Traffic Control Devices (MUTCD) and (g) Maintenance Rating Program (MRP).

- 1) The **AGENCY** shall be responsible for the **IMPROVEMENTS** as referenced in **Exhibit A** immediately after final acceptance of the construction project by the **DEPARTMENT**.
- C. Maintenance shall include but not be limited to graffiti removal (**Graffiti is defined as painting, writing, and stickers on any part of the mast arm assembly**), spot painting and/or repairing of any parts of the solar black powder coated mast arm assembly.
  - D. All **IMPROVEMENTS** shall at all times have a notification sign posted with the name and phone number of the department within the **AGENCY** responsible for maintenance of the **IMPROVEMENTS** so that members of the public may contact the **AGENCY** regarding problems with the **IMPROVEMENTS**. The **AGENCY** shall promptly respond and correct all complaints regarding maintenance. The **IMPROVEMENTS** to be constructed with this project shall not contain advertising. Nor shall advertising be placed upon them by any party in the future.
  - E. Any work impacting traffic flow on State Road A1A at SE 5<sup>th</sup> Street M.P. 2.795 must be coordinated with the **DEPARTMENT**. Lane closures must be submitted for approval in accordance with **DEPARTMENT** procedures and policies and will meet the goals established in the **DEPARTMENT's** Open Roads Policy.
4. NOTICE OF MAINTENANCE DEFICIENCIES
- A. If, at any time while the terms of this **AGREEMENT** are in effect, it shall come to the attention of the **DEPARTMENT** that the **AGENCY's** responsibility as established herein or a part thereof is not being properly accomplished pursuant to the terms of this **AGREEMENT**, the **DEPARTMENT** may issue a written notice, that a deficiency or deficiencies exist(s), by sending a certified letter to the **AGENCY**, in care of the CITY OF FORT LAUDERDALE CITY MANAGER, to place the **AGENCY** on notice regarding its maintenance deficiencies. Thereafter, the **AGENCY** shall have a period of sixty (60) days within which to correct the cited deficiency or deficiencies. If said deficiencies are not corrected within the time period, the **DEPARTMENT** may, at its option, proceed under one or more or a combination of the following items:
    - 1) The **DEPARTMENT** may repair any item or a number of items. Corrective actions will be performed with the **DEPARTMENT** and/or its independent contractor's materials, equipment and personnel. The actual cost for such work will be charged to the **AGENCY**.
    - 2) If the **AGENCY** does not maintain the solar black powder coated mast arm assemblies (includes upright pole and arm), the **DEPARTMENT** may remove all solar black powder coated mast arm assemblies (includes upright pole and arm) and repair or replace any damaged galvanizing with **DEPARTMENT** and/or its independent contractor's materials, equipment and personnel. The cost for such work will be charged to the **AGENCY**.

- 3) The **DEPARTMENT** may remove or replace any item or number of items with the standard **DEPARTMENT** item. Corrective actions will be performed with the **DEPARTMENT** and/or its independent contractor's materials, equipment and personnel. The actual cost for such work will be charged to the **AGENCY**.
- 4) At the discretion of the **DEPARTMENT**, terminate the **AGREEMENT** in accordance with Paragraph 7 of the **AGREEMENT** and remove, by the **DEPARTMENT** or its Contractor's personnel, all of the **IMPROVEMENTS** install under this **AGREEMENT** and charge the **AGENCY** the reasonable cost of such removal.

#### 5. FUTURE DEPARTMENT IMPROVEMENTS

It is understood between the parties hereto that the **IMPROVEMENTS** covered by this **AGREEMENT** may be removed, relocated or adjusted at any time in the future as determined to be necessary by the **DEPARTMENT** in order that the adjacent state road be widened, altered or otherwise changed to meet with future criteria or planning of the **DEPARTMENT**.

#### 6. FUTURE AGENCY IMPROVEMENTS

The **AGENCY** may construct additional improvements within the limits of the rights of ways identified as a result of this document, subject to the following conditions:

- A. Plans for any new **IMPROVEMENTS** shall be subject to approval by the **DEPARTMENT**. The **AGENCY** shall not change or deviate from said plans without written approval by the **DEPARTMENT**.
- B. The **AGENCY** shall procure a permit and/or Construction **AGREEMENT** from the **DEPARTMENT**, as appropriate.
- C. All **IMPROVEMENTS** shall be developed and implemented in accordance with appropriate state safety and roadway design standards.
- D. The **AGENCY** agrees to comply with the requirements of this **AGREEMENT** with regard to any additional **IMPROVEMENTS** installed at no cost to the **DEPARTMENT**.

#### 7. AGREEMENT TERMINATION

This **AGREEMENT** may be terminated under any one (1) of the following conditions:

- A. By the **DEPARTMENT**, if the **AGENCY** fails to perform its duties under this **AGREEMENT**, following ten (10) days written notice. The **AGENCY** shall reimburse the **DEPARTMENT** for any expenditures for the installation of said **IMPROVEMENTS** and the cost to remove and or replace said improvement with the standard improvement or remove in its entirety.
- B. By the **DEPARTMENT**, for refusal by the **AGENCY** to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119,



Florida Statutes, and made or received by the **AGENCY** in conjunction with this **AGREEMENT**.

C. By the **DEPARTMENT** with a six (6) month written notice.

## 8. AGREEMENT TERM

The term of this **AGREEMENT** commences upon execution by all parties. The term of this **AGREEMENT** shall remain in effect for as long as the **IMPROVEMENTS** exist.

## 9. LIABILITY AND INSURANCE REQUIREMENTS

A. With respect to any of the **AGENCY'S** agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for the **IMPROVEMENTS** shall agree to indemnify, defend, save and hold harmless the **DEPARTMENT** from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, sub consultants, contractors and/or subcontractors. The **AGENCY** shall provide to the **DEPARTMENT** written evidence of the foregoing upon the request of the **DEPARTMENT**. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the **DEPARTMENT** for its own negligence.

B. In the event that the **AGENCY** contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:

- 1) **AGENCY'S** contractor shall at all times during the term of this **AGREEMENT** keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and Worker's Compensation insurance with minimum limits of \$500,000.00 per Liability. Coverage must be afforded on a form no more restrictive than the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office and shall name the **DEPARTMENT** as an additional insured.
- 2) **AGENCY'S** contractor shall furnish **AGENCY** with Certificates of Insurance of Endorsements evidencing the insurance coverages specified herein prior to the beginning performance of work under this **AGREEMENT**.
- 3) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of **AGENCY'S** contractor is completed. All policies must be endorsed to provide the **DEPARTMENT** with at least thirty (30) days' notice of cancellation and or/or restriction. If any of the insurance coverages will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

## 10. E-VERIFY REQUIREMENTS

The **AGENCY** shall:

- A. Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the **AGENCY** for the work performed under this **AGREEMENT**; and
- B. Expressly require any contractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

#### 11. ENTIRE AGREEMENT

This writing embodies the entire **AGREEMENT** and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter (solar black powder coating of mast arms) hereof that are not merged herein and superseded hereby except the LFA mentioned above.

#### 12. LIABILITY

The **DEPARTMENT**, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The **DEPARTMENT** shall require a statement from the Comptroller of the **DEPARTMENT** that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one (1) year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the **DEPARTMENT** which are for an amount in excess of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

#### 13. DISPUTES

The **DEPARTMENT'S** District Secretary shall decide all questions, difficulties and disputes of any nature whatsoever that may arise under or by reason of this **AGREEMENT**, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof. Should the **AGENCY** disagree with the **DEPARTMENT'S** District Secretary's decision, the **AGENCY** may pursue any and all legal and equitable remedies available under this **AGREEMENT**.

#### 14. ASSIGNMENT

This **AGREEMENT** may not be assigned or transferred by the **AGENCY** in whole or part without the consent of the **DEPARTMENT**.

#### 15. LAWS GOVERNING

This **AGREEMENT** shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. Venue with respect to judicial proceedings arising out of this AGREEMENT shall be in Broward County, Florida.

#### 16. NOTICES

Any and all notices given or required under this **AGREEMENT** shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses.

##### If to the **DEPARTMENT**:

State of Florida Department of Transportation  
Attention: District Maintenance Engineer  
3400 West Commercial Blvd  
Ft. Lauderdale, FL 33309-3421

##### If to the **AGENCY**:

City of Fort Lauderdale  
Attention: Christopher J. Lagerbloom, ICMA-CM  
100 N Andrews Avenue  
Fort Lauderdale, Florida 33301

#### 17. LIST OF EXHIBITS

Exhibit A: Project Location and Location Map  
Exhibit B: Signalization Plans  
Exhibit C: Broward County Acknowledgement Letter  
Exhibit D: Maintenance Plan Requirements

**IN WITNESS OF THE FOREGOING**, the parties hereto have executed this **AGREEMENT** effective the day and year first above written.

**AGENCY:**

ATTEST:

CITY OF FORT LAUDERDALE

\_\_\_\_\_  
City Clerk  
Print Name: Jeffrey A. Modarelli  
(SEAL)

By: \_\_\_\_\_  
City Manager  
Print Name: Christopher J. Lagerbloom, ICMA-CM

Date: \_\_\_\_\_

Legal Review:  
Approved as to form:  
Alain E. Boileau, City Attorney

By: \_\_\_\_\_  
Assistant City Attorney  
Print Name: Kimberly Cunningham Mosley

Date: \_\_\_\_\_

**IN WITNESS OF THE FOREGOING**, the parties hereto have executed this **AGREEMENT** effective the day and year first above written.

**DEPARTMENT:**

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

Sign: \_\_\_\_\_  
Director of Operations

Print Name: Paul A. Lampley, P.E.

Date: \_\_\_\_\_

Legal Review:

Sign: \_\_\_\_\_  
District General Counsel

Print Name: Dawn Raduano

Date: \_\_\_\_\_

## EXHIBIT A

### PROJECT LOCATION AND LOCATION MAP

#### A. PROJECT LOCATION

The **AGENCY** shall maintain the solar black color powder coated mast arm assemblies (includes upright pole and arm) within the project limits under Project Number 436219-3-72-04/05 at the intersection of State Road A1A at SE 5<sup>th</sup> Street (M.P. 2.795).

#### B. PROJECT AERIAL



## EXHIBIT B

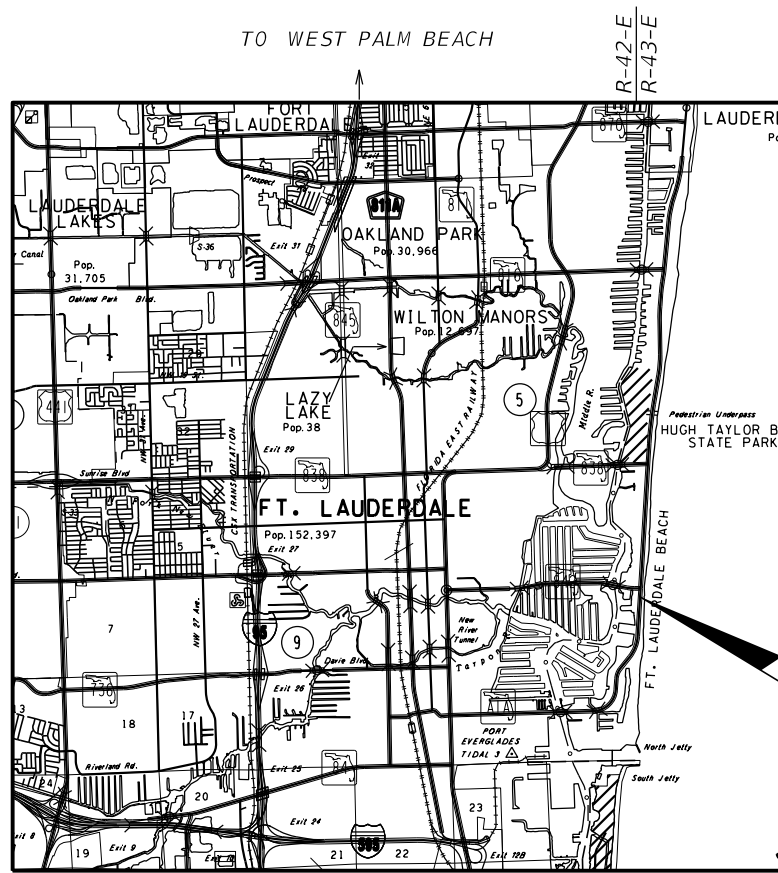
### SIGNALIZATION PLANS

Signalization plans digitally signed and sealed by Christine Dalickas, P.E., (DRMP, INC.) dated April 09, 2021, and Jocelyn M Haisch-Linn, P.E., (DRMP, INC.) dated April 08, 2021, as approved by the **DEPARTMENT**.

#### SIGNALIZATION PLANS (attached)

##### Sheets Included:

PDF Page No. (#)	Plan Sheet (#)	Sheet(s) Description
12	1	KEY SHEET AND TABULATION OF QUANTITIES
13	2	SIGNATURE SHEET
14	3	GENERAL NOTES
15	4	TEMPOARY TRAFFIC CONTROL NOTES
16	5	SIGNALIZATION PLAN
17	6	GUIDE SING WORKSHEET
18	7	MAST ARM TABULATION SHEET
19	8	ULTIMATE LOADING
20	9	MAST ARM ELEVATION
21-22	10-11	MAST ARM DETAILS
23	12	UTILITY LOCATION PLAN
24	UTV-1	VERIFIED UTILITY LOCATE SHEET
25	CTL-1	PROJECT CONTROL
26	GT-1	REPORT OF CORE BORINGS



PROJECT LOCATION  
SR A1A (FORT LAUDERDALE  
BEACH BOULEVARD)  
AT SE 5TH STREET  
MP 2.795

# SR A1A (FORT LAUDERDALE BEACH BOULEVARD) (86180) AT SE 5 STREET

## SIGNALIZATION PLANS

### INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET AND TABULATION OF QUANTITIES
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10-11	MAST ARM DETAILS
12	UTILITY LOCATION PLAN
UTV-1	VERIFIED UTILITY LOCATE SHEET
CTL-1	PROJECT CONTROL
GT-1	REPORT OF CORE BORINGS

#### PLANS PREPARED BY:

DRMP, INC.  
6853 SW 18TH STREET, SUITE 310  
BOCA RATON, FL, 33433  
PHONE: (561) 451-8124 FAX: (561) 451-8142

CONTRACT NO. C-9W15  
VENDOR NO. 591791174001

SIGNALIZATION PLANS  
ENGINEER OF RECORD: CHRISTINE DALICKAS, P.E. LICENSE NO. 62423  
FDOT PROJECT MANAGER: DANI GOODWIN, P.E.

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

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION, 2020-21 STANDARD PLANS  
AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2021  
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS  
AMENDED BY CONTRACT DOCUMENTS.

## TABULATION OF QUANTITIES

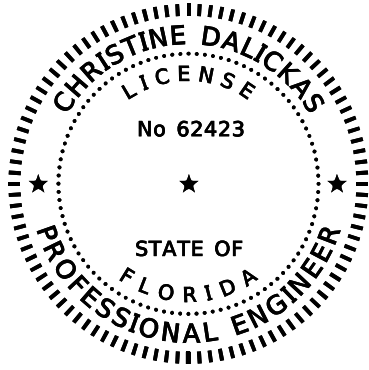
PAY ITEM NO.	DESCRIPTION	GRAND TOTAL		
		UNIT	PLAN	FINAL
102-14	TRAFFIC CONTROL OFFICER	HR	32	
102-60	WORK ZONE SIGN	ED	510	
102-74-1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM AND LCD	ED	855	
102-76	ARROW BOARD/ADVANCE WARNING ARROW PANEL	ED	45	
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	118	
102-115	TYPE III BARRICADE	ED	8	
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	33	
522-1	SIDEWALK CONCRETE, 4" THICK	SY	33	
526-1-2	PAVERS, ARCHITECTURAL, SIDEWALK	SY	33	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	15	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	232	
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED FURNISH & INSTALL	PI	1	
632-7-6	SIGNAL CABLE - REMOVE- INTERSECTION	PI	1	
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	12	
646-1-11	ALUMINUM SIGNAL POLE, FURNISH & INSTALL PEDESTAL	EA	1	
649-21-128	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, 40' TROMBONE STYLE	EA	1	
	PROJECT 436219-3-72-02 AND -05			
649-21-129	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, 50' TROMBONE STYLE	EA	1	
	PROJECT 436219-3-72-02 AND -05			
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE-SHALLOW FOUNDATION BOLT ON ATTACHMENT	EA	1	
650-1-14	TRAFFIC SIGNAL, FURNISH & INSTALL, ALUMINUM 3 SECTION, 1 WAY	AS	4	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL, LED COUNTDOWN, 1 WAY	AS	1	
660-4-11	VIDEO DETECTION SYSTEM-VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	1	
660-4-12	VIDEO DETECTION SYSTEM-VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	2	
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	1	
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	1	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	1	
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA	1	
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 TO NO. 2	LF	347	

#### REVISIONS:

1 Sheets 3, 11 (Revised 4/7/21)

REVISIONS				DRMP, INC. 6853 SW 18TH STREET, STE. 310, BOCA RATON, FL 33433 PHONE: (561) 451-8124 FAX: (561) 451-8142 12 CHRISTINE DALICKAS, P.E. LICENSE NUMBER 62423	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			KEY SHEET AND TABULATION OF QUANTITIES CAM# 21-0284 Exhibit 1 Page 12 of 29	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		



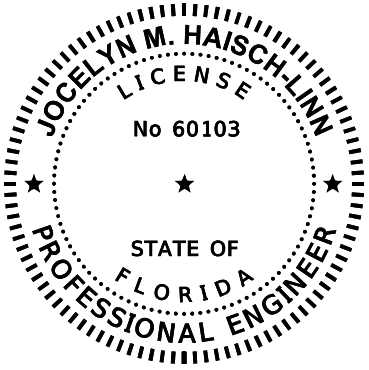


THIS DOCUMENT HAS BEEN DIGITALLY  
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED.  
THE SIGNATURE MUST BE VERIFIED  
ON THE ELECTRONIC DOCUMENTS.

DRMP, INC.  
6853 SW 18TH STREET, SUITE 310  
BOCA RATON, FL 33433  
CHRISTINE DALICKAS, P.E. NO 62423



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DRMP, INC.  
941 LAKE BALDWIN LANE  
ORLANDO, FL 32814  
JOCELYN M. HAISCH-LINN, P.E. NO 60103

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET AND TABULATION OF QUANTITIES
2	SIGNATURE SHEET
3	GENERAL NOTES
4	TEMPORARY TRAFFIC CONTROL NOTES
5	SIGNALIZATION PLAN
6	GUIDE SIGN WORKSHEET
7	MAST ARM TABULATION SHEET
8	ULTIMATE LOADING
12	UTILITY LOCATION PLAN

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
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SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
9	MAST ARM ELEVATION
10-11	MAST ARM DETAILS

REVISIONS				DRMP, INC. 6853 SW 18TH STREET, STE. 310, BOCA RATON, FL 33433 PHONE: (561) 451-8124 FAX: (561) 451-8142 13	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET CAM # 21-0284 Exhibit 12 Page 13 of 29	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		

GENERAL NOTES:

1. UTILITY OWNERS:

COMPANY

AT&T DISTRIBUTION

BCTED-COPPER INTERCONNECT CABLE

AND FIBER OPTIC CABLE

COMCAST CABLE

CITY OF FORT LAUDERDALE

CROWN CASTLE NG

FPL DISTRIBUTION

HOTWIRE COMMUNICATIONS

MCI

TECO PEOPLES GAS

CONTACT

OTIS KEEVE

ROBERT BLOUNT

LEONARD MAXWELL-NEWBOLD

RICK JOHNSON

GARRY BRANDY

DANNY HASKETT

BYRON SAMPLE

WALTER DAVILA

INVESTIGATIONS

DAVID RIVERA

TELEPHONE NUMBERS

954-309-0753

954-847-2745

954-447-8405

954-828-7809

954-828-7864

786-610-7073

954-321-2056

954-699-0900

469-886-4091

954-453-0794
2. THE CONTRACTOR SHALL CONTACT THE CITY OF FORT LAUDERDALE AND CITY OF FORT LAUDERDALE POLICE DEPARTMENT FOURTEEN (14) DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. CONTACT THE CITY OF FORT LAUDERDALE AT 954-828-5000, CITY OF FORT LAUDERDALE POLICE DEPARTMENT AT 954-828-5700.
3. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED ITS COMMUNICATIONS EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL TRAFFIC SIGNAL AND RELATED ITS COMMUNICATION EQUIPMENT WHEN USING PAY ITEM SERIES: 632, 650, 653, AND 670 FOR THIS CONTRACT SHALL BE COMPATIBLE WITH BCTED'S CENTRAL COMPUTER NETWORK SYSTEM. PRIOR TO ANY PURCHASING OF THE ABOVE PRODUCTS, ENSURE THEY HAVE BEEN APPROVED FOR SYSTEM COMPATIBILITY BY THE MAINTAINING AGENCY.
4. ALL STANDARD SIGNAL PULL BOXES SHALL BE STAMPED "TRAFFIC SIGNAL" ON THE COVER.
5. PROJECT ADMINISTRATOR TO CONTACT THE DISTRICT FOUR STRUCTURES MAINTENANCE OFFICE FOR A STRUCTURAL INSPECTION BEFORE FINAL ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE A 30 DAY ADVANCE NOTICE TO DISTRICT FOUR STRUCTURES MAINTENANCE OFFICE FOR PRECONSTRUCTION MEETING, PRE-ACTIVITY MEETING AND FINAL INSPECTIONS.
6. THE CONTRACTOR SHALL CONTACT THE FDOT PROJECT ADMINISTRATOR FOR ALL SIGNALIZATION INSPECTIONS FROM BROWARD OPERATIONS AT 954-776-4300 AND FDOT PROJECT ADMINISTRATOR FROM PALM BEACH OPERATIONS CENTER AT (561) 370-1262.
7. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL PROVIDE WRITTEN NOTICE OF COMMENCEMENT, VIA E-MAIL, TO TEINSPECTION@BROWARD.ORG. NOTICE SHALL INCLUDE THE DATE OF COMMENCEMENT, LOCATION AND TYPE OF WORK, AND INFORMATION REGARDING ANY MALFUNCTIONING EQUIPMENT.
8. CONTRACTOR SHALL NOT STOCKPILE MATERIAL EAST OF SR A1A.
9. NO NIGHT TIME LIGHTING CAN BE USED DURING TURTLE NESTING SEASON (MARCH TO OCTOBER) UNLESS SUBMITTED AND APPROVED BY THE ENGINEER AND PERMITTING AGENCY.

PAY ITEM NOTES:

1. 102-60, 102-74-1, 102-76 - TCP ITEMS BASED ON ESTIMATED 45 DAYS TO COMPLETE. TIME DOES NOT INCLUDE INSPECTION AND ACCEPTANCE.
2. 102-99 - TCP ITEMS BASED ON ESTIMATED 59 DAYS TO COMPLETE. TIME DOES NOT INCLUDE INSPECTION AND ACCEPTANCE.
3. 110-4-1 - INCLUDED IN THIS PAY ITEM IS THE SIDEWALK REMOVAL UNDERNEATH THE BRICK PAVERS AND ANY DAMAGED BRICK PAVERS.
4. 522-1 - FOR THE SIDEWALK UNDERNEATH THE BRICK PAVER INSTALLATION.
5. 635-2-11 - INCLUDES THE COST OF REMOVAL OF EXISTING PULL BOX.
6. 649-21-128, 649-21-129 - A GIVEN MAST ARM/POLE ASSEMBLY LOCATION SHALL BE FIELD VERIFIED AND IDENTIFIED AS FREE OF CONFLICTS AND/OR OBJECTS BY THE CONTRACTOR PRIOR TO PROCUREMENT OF THE ASSOCIATED EQUIPMENT. MAST ARMS SHALL BE INSTALLED PERPENDICULAR TO APPROACH. MAST ARMS ARE TO BE ~~(POWDER COATED)~~ SOLAR BLACK. COST OF ~~(POWDER COATING)~~ TO BE BID UNDER PAY ITEMS 0649-21-128 AND 0649-21-129.
7. 649-36-300 - THE CONTRACTOR SHALL DELIVER ALL REMOVED TRAFFIC SIGNAL EQUIPMENT AND GPS EQUIPMENT TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION LOCATED AT: 2300 W COMMERCIAL BLVD., FT. LAUDERDALE, FL 33309. (954) 847-2626. THE CONTRACTOR SHALL CONTACT BCTED (7) FULL WORKING DAYS PRIOR TO DELIVERY.
8. 650-1-14 - A REFLECTIVE BORDER SHALL BE INCLUDED IN ALL BACKPLATES.
9. ALL CONTRACT PAY ITEMS ARE ESTIMATED QUANTITIES. COMPENSATION WILL ONLY BE FOR TASKS, FIELD MEASURED PAY ITEMS, IN PLACE AND ACCEPTED.

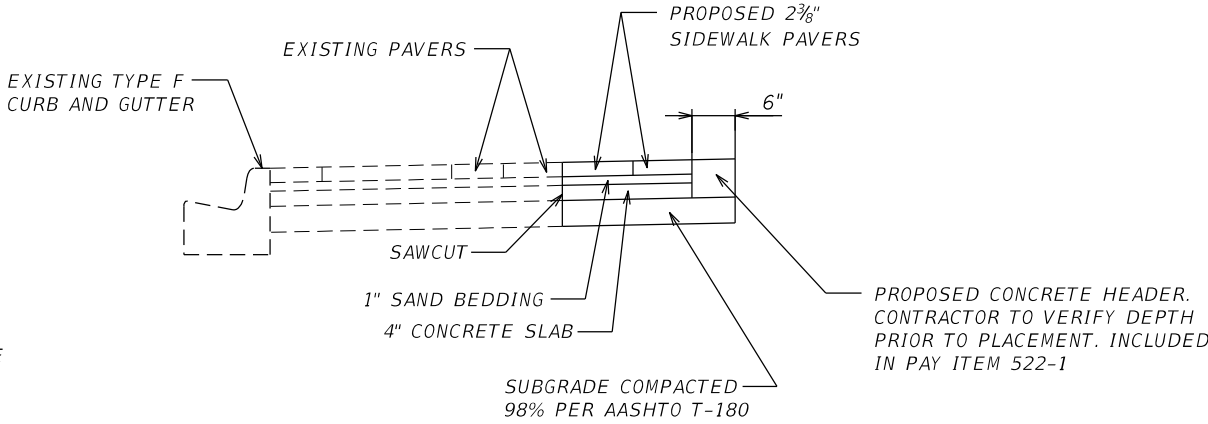
COMMUNICATIONS NOTES:

1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED.
2. IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1500 FEET OF YOUR PROJECT LIMITS CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
3. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
4. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION  
PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION

FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON

5. WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00AM AND ENDING AT 3:00PM.



PAVER DETAIL FOR REPLACING BRICK PAVERS DAMAGED DURING INSTALLATION OR REMOVAL SIGNAL EQUIPMENT

N.T.S.

REVISIONS				DRMP, INC.  6853 SW 18TH STREET, STE. 310, BOCA RATON, FL 33453 PHONE: (561) 451-8124 FAX: (561) 451-8142  14  CHRISTINE DALICKAS, P.E. LICENSE NUMBER 62423	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES  CAM # 21-0284 Exhibit 13 Page 14 of 29	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
4-7-21	⚠️ REVISED PAY ITEM NOTE.				SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		

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TEMPORARY TRAFFIC CONTROL PLAN:

1. THE CONTRACTOR SHALL NOT PERFORM ANY LANE CLOSURES BETWEEN THE HOURS OF 10:00 AM TO 8:30 PM DURING THE WEEK.
2. THE WORK ZONE SPEED LIMIT SHALL BE EQUAL TO THE EXISTING SPEED LIMITS (30 MPH) ALONG THE ROADWAY IN WHICH THE CONTRACTOR IS PERFORMING HIS WORK.
3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS 102-600, 102-613 AND 102-660.
4. PCMS SHALL BE ADDED DURING CONSTRUCTION WHEN DETOURS ARE UTILIZED AND SHALL STATE THE FOLLOWING:

TWO WEEKS PRIOR TO DETOUR:

PCMS MESSAGE 1

SR A1A  
CLOSED

PCMS MESSAGE 2

ON  
"DATE"

DURING DETOUR:

PCMS MESSAGE 1

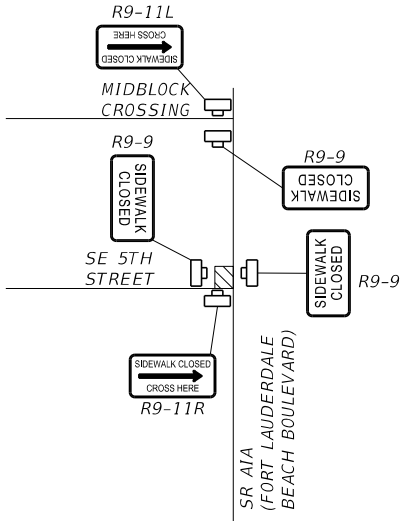
SR A1A  
CLOSED  
"DATE"

PCMS MESSAGE 2

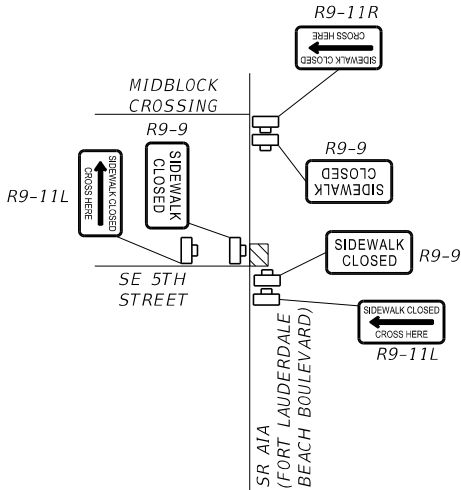
FOLLOW  
DETOUR

PEDESTRIAN DETOUR ROUTE FOR WORK AT THE INTERSECTION OF  
SR A1A (FORT LAUDERDALE BEACH BOULEVARD) AT SE 5TH STREET

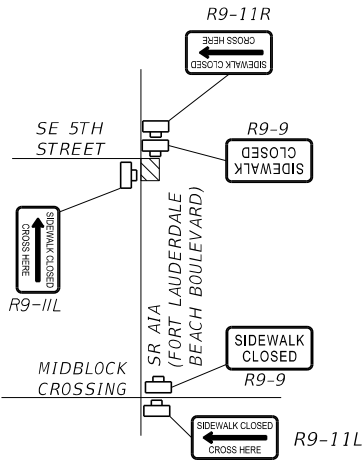
NW QUADRANT OF INTERSECTION:



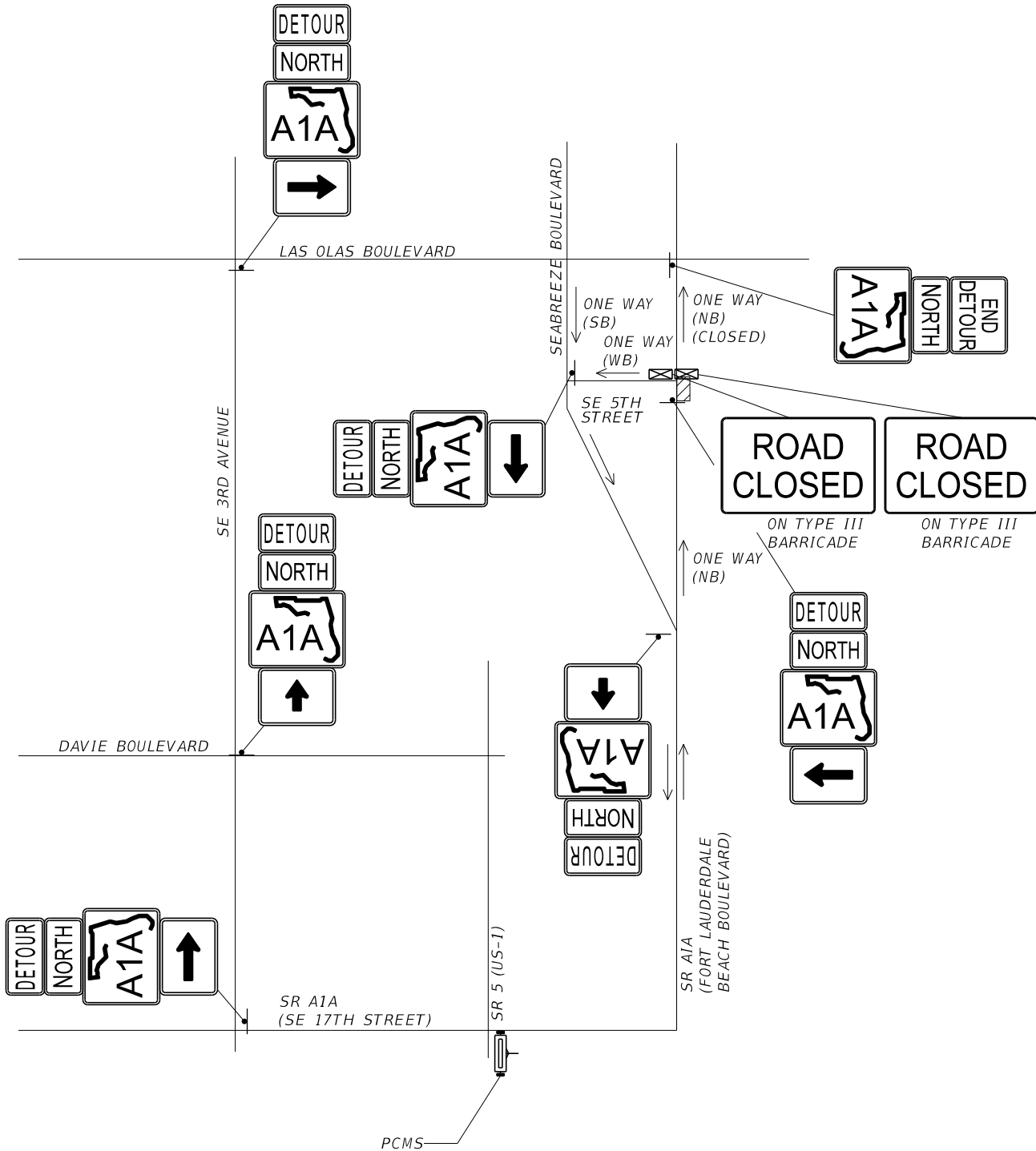
NE QUADRANT OF INTERSECTION:



SE QUADRANT OF INTERSECTION:



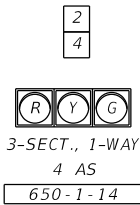
DETOUR ROUTE FOR THE EXISTING MAST ARM REMOVAL AND THE  
PROPOSED MAST ARM INSTALLATION WORK AT THE INTERSECTION  
OF SR A1A (FORT LAUDERDALE BEACH BOULEVARD) AT SE 5TH STREET



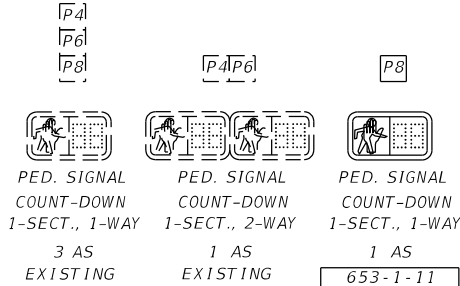
REVISIONS				DRMP, INC. 6853 SW 18TH STREET, STE. 310, BOCA RATON, FL 33453 PHONE: (561) 451-8124 FAX: (561) 451-8142 15 CHRISTINE DALICKAS, P.E. LICENSE NUMBER 62423	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TEMPORARY TRAFFIC CONTROL NOTES	CAM # 21-0284 Exhibit 14 Page 15 of 29	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY			
					SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		

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## SIGNAL HEAD DETAILS



## PEDESTRIAN SIGNAL HEAD DETAILS

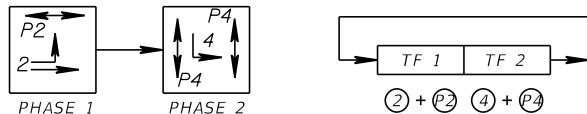


## \*CONTROLLER TIMINGS

TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
DIRECTION		NB		EB				
MINIMUM GREEN		7		10				
EXTENSION								
MAXIMUM GREEN 1		50		21				
MAXIMUM GREEN 2								
YELLOW CLEARANCE		4		3				
ALL RED		2		2				
PEDESTRIAN WALK		7		10				
PED. CLEARANCE		8		11				
RECALL		MAX						

EXISTING PREEMPTION TO REMAIN.  
S.O.P. TO BE MODIFIED AS SHOWN HEREIN\*

## \*SPECIAL S.O.P.



\* CONTRACTOR IS TO LEAVE THE EXISTING SOP AND TIMINGS AS IS UNTIL THE CITY OF FT. LAUDERDALE'S SE 5TH STREET TWO-WAY PROJECT IS COMPLETED.

## SIGN DETAILS

**SE 5 ST**  
LEAVITT DR/HALL OF FAME DR

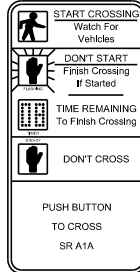
SIGN A

EXISTING SIGN  
TO BE RELOCATED  
700-5-50 1 EA

**S400 SR A1A**  
**Fort Lauderdale Bch Blvd**

SIGN B

SEE SHEET 6  
FOR DETAILS  
700-5-22 1 EA



SIGN C  
FTP 68B-06  
9" X 18"



SIGN D  
R6-2L  
24" X 30"

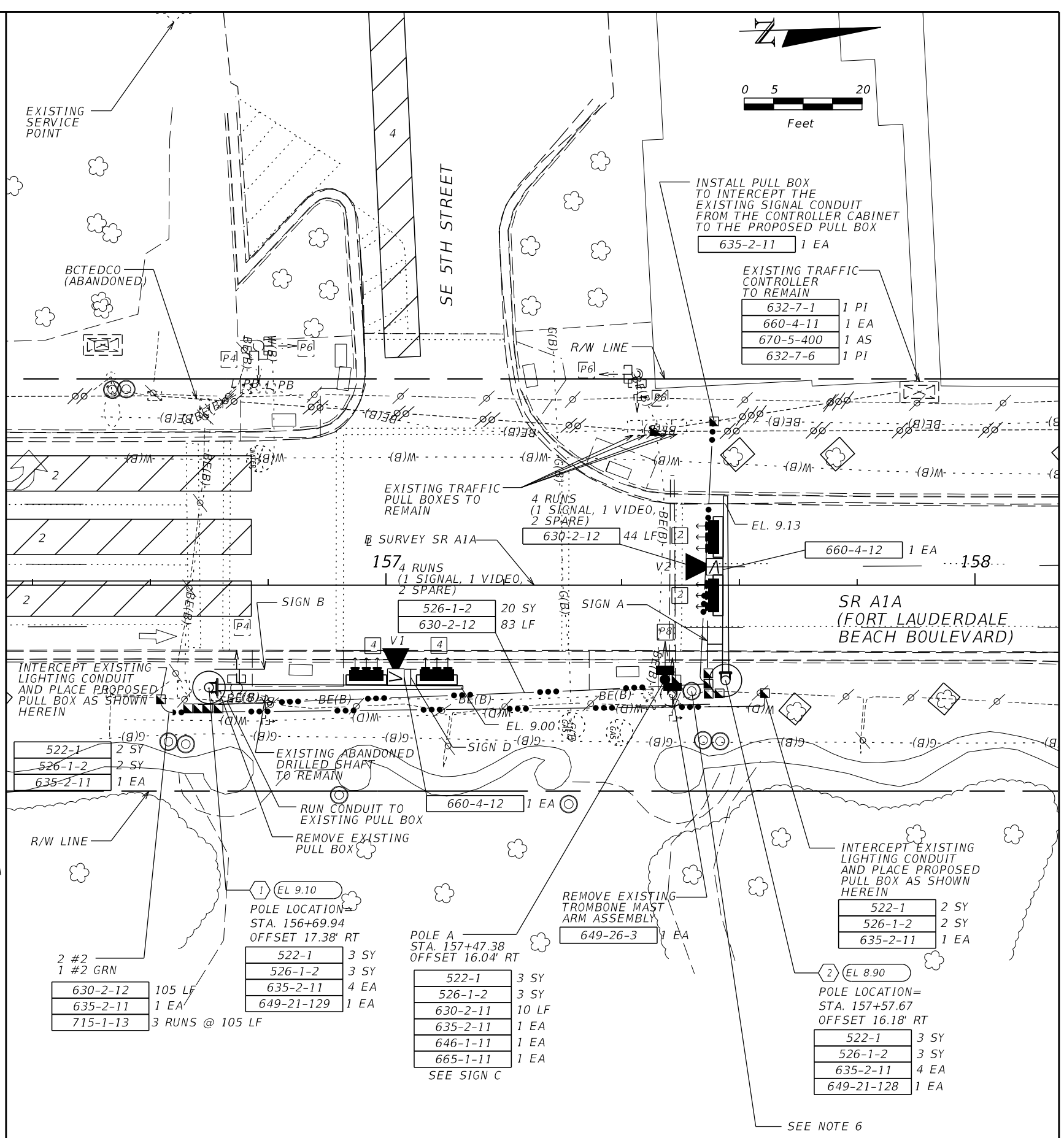
700-3-201 1 EA

## NOTES:

- CONTRACTOR SHALL REMOVE AND RE-INSTALL ANY EXISTING SIDEWALK PAVERS FOUND ON SITE FOR THE INSTALLATION OF THE PROPOSED TROMBONE MAST ARMS AND TRAFFIC EQUIPMENT. CONTRACTOR SHALL REPLACE BRICK PAVERS DAMAGED DURING INSTALLATION OF TROMBONE MAST ARM FOUNDATIONS AND SIGNAL EQUIPMENT, INCLUDED IN PAY ITEM 526-1-2. CONTRACTOR SHALL USE DUE CARE WHEN REMOVING EXISTING SIDEWALK PAVERS TO MINIMIZE DAMAGE TO SAID SIDEWALK PAVERS.
- CONTRACTOR SHALL PROTECT PAVERS WITHIN THE ROADWAY INTERSECTION FROM DAMAGE.
- MAST ARM FOUNDATIONS ARE TO BE FLUSH WITH BRICK PAVERS.
- CONTRACTOR SHALL ENTER CONTROLLER THROUGH EXISTING SIGNAL CONDUIT SWEEPS FROM THE EXISTING PULL BOXES.
- PAY ITEM 670-5-400 INCLUDES THE MODIFICATION OF THE EXISTING CONTROLLER TO ACCOMODATE THE PROPOSED VIDEO DETECTION.
- CONTRACTOR TO CONTACT CITY OF FORT LAUDERDALE ABOUT TRASH RECEPTACLE RELOCATION AT 954-828-8000.

## VIDEO DETECTION CHART

VIDEO DETECTOR	MOVEMENT NUMBER
V1	4
V2	2



## REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

## DRMP, INC.

6853 SW 18TH STREET, STE. 310, BOCA RATON, FL 33453

PHONE: (561) 451-8124 FAX: (561) 451-8142

16

CHRISTINE DALICKAS, P.E.  
LICENSE NUMBER 62423

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

## SIGNALIZATION PLAN

CAM # 21-0284

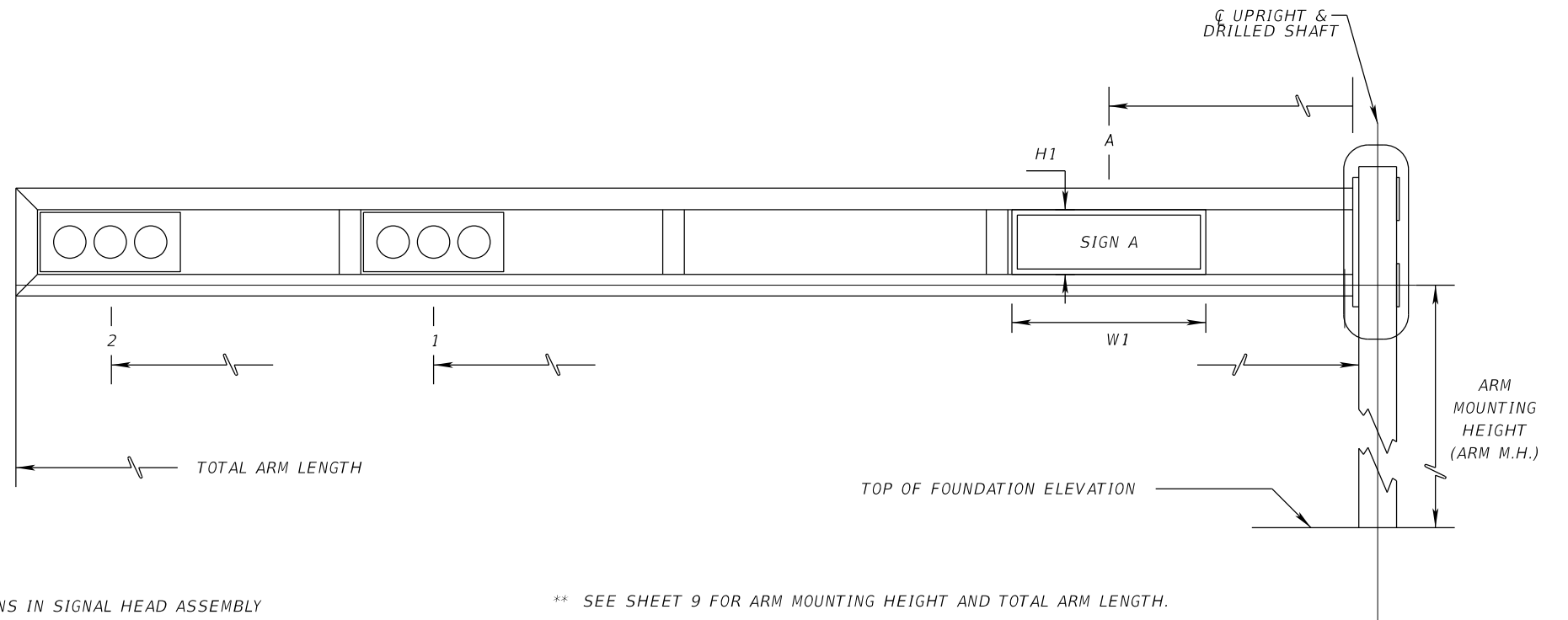
Exhibit 15

Page 16 of 29

SHEET  
NO.

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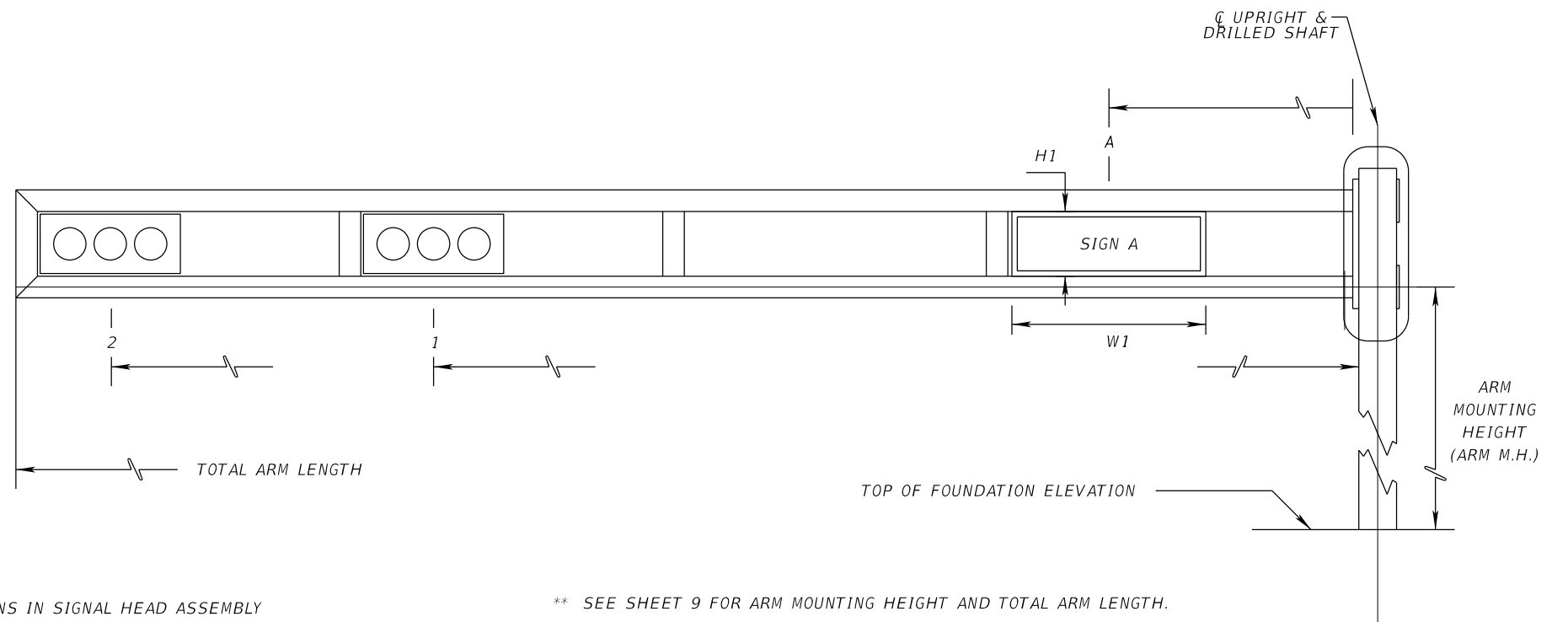




\*\* SEE SHEET 9 FOR ARM MOUNTING HEIGHT AND TOTAL ARM LENGTH.

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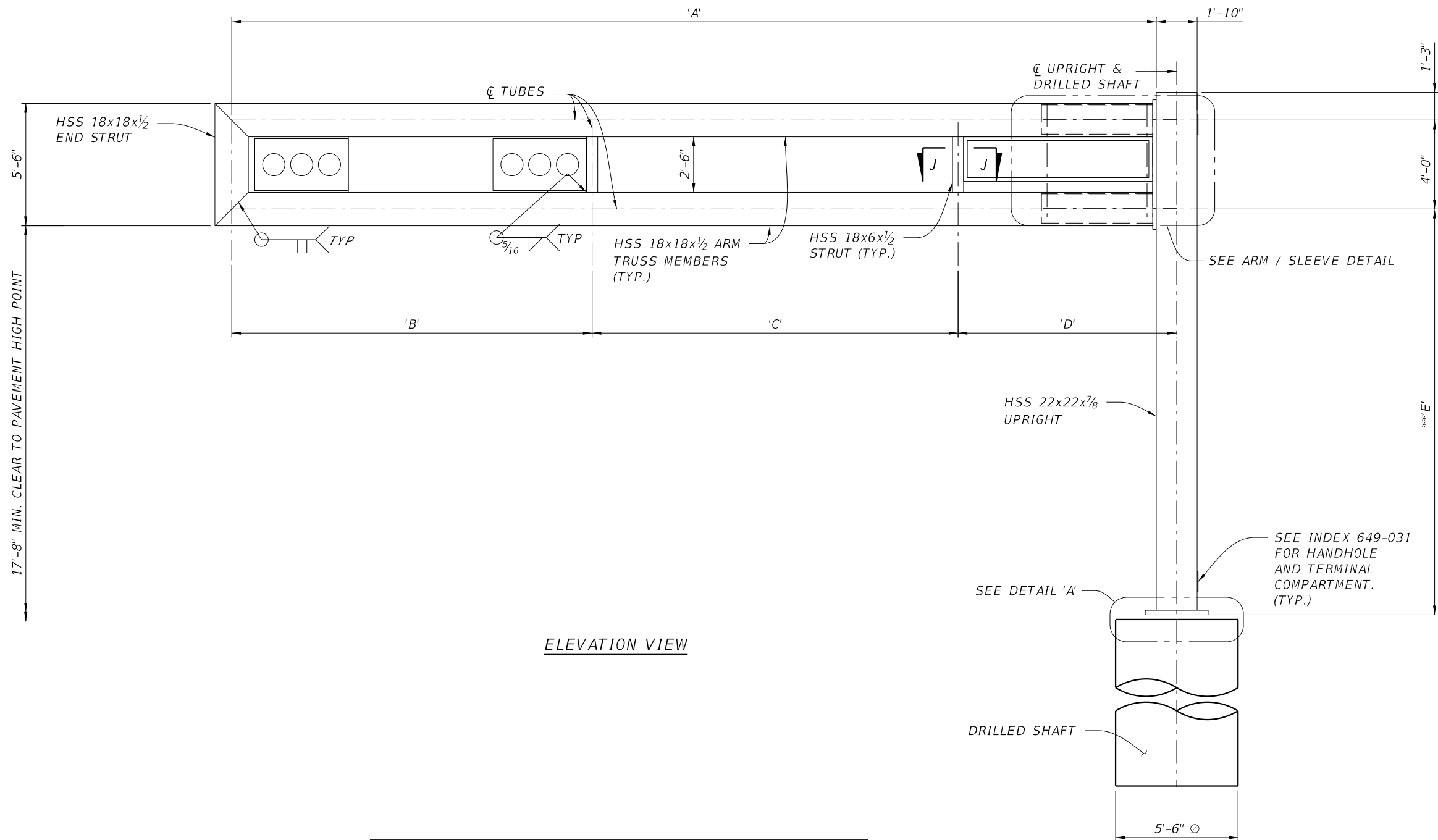
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\*\* SEE SHEET 9 FOR ARM MOUNTING HEIGHT AND TOTAL ARM LENGTH.

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cdallickas 4/7/2021 3:14:34 PM P:\Projects\17-N7-0104.060\_SR AIA at Terramar Street\_rev\43621937204\signals\MSSGSGOI.DGN



ELEVATION VIEW

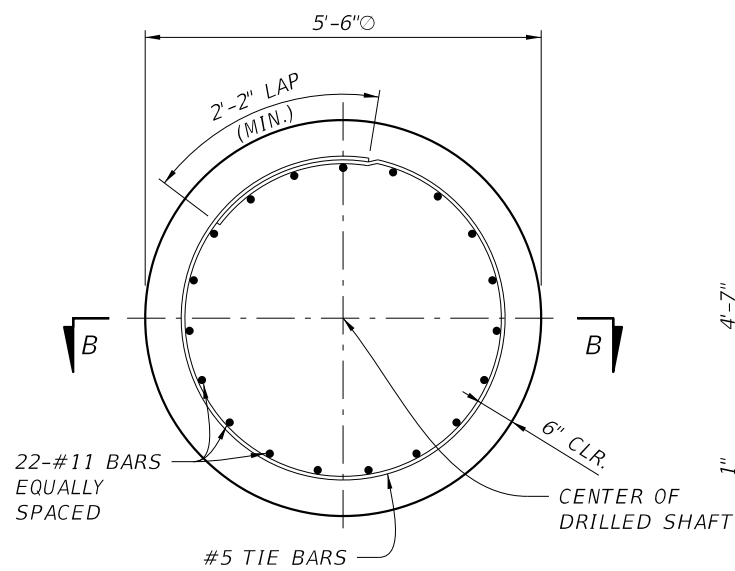
**NOTE**  
 \*\* CONTRACTOR SHALL VERIFY THIS DIMENSION  
 PRIOR TO FABRICATION OF POLE.

MAST ARM DATA TABLE						
MAST ARM ID NO.	STATION	DIMENSIONS				
		A	B	C	D	**E
1	156+69.94	41'-7"	17'-8"	14'-5"	10'-5"	18'-3"
2	157+57.67	31'-1"	10'-4 1/2"	11'-5 1/2"	10'-2"	18'-3"

SEE NEXT SHEET FOR DRILLED SHAFT DATA.

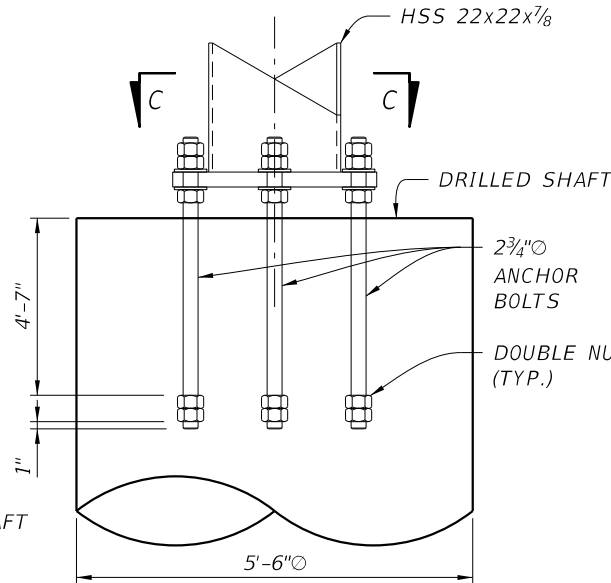
REVISIONS				DRMP, INC. 941 LAKE BALDWIN LANE, ORLANDO, FL 32814 PHONE: (407) 896-0594 FAX: (407) 896-4856 JOCELYN M.HAISCH-LINN LICENSE No. 60103 20	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MAST ARM ELEVATION  CAM # 21-0284	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		9 11-2-24
					SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		





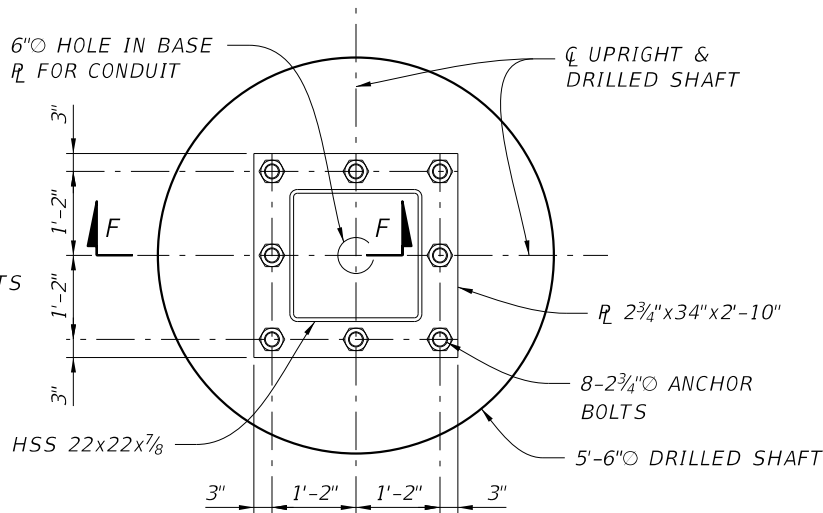
DRILLED SHAFT PLAN SECTION

NOTE: 6" MIN. COVER ON SHAFT REINFORCEMENT.  
(ANCHOR BOLTS NOT SHOWN FOR CLARITY)



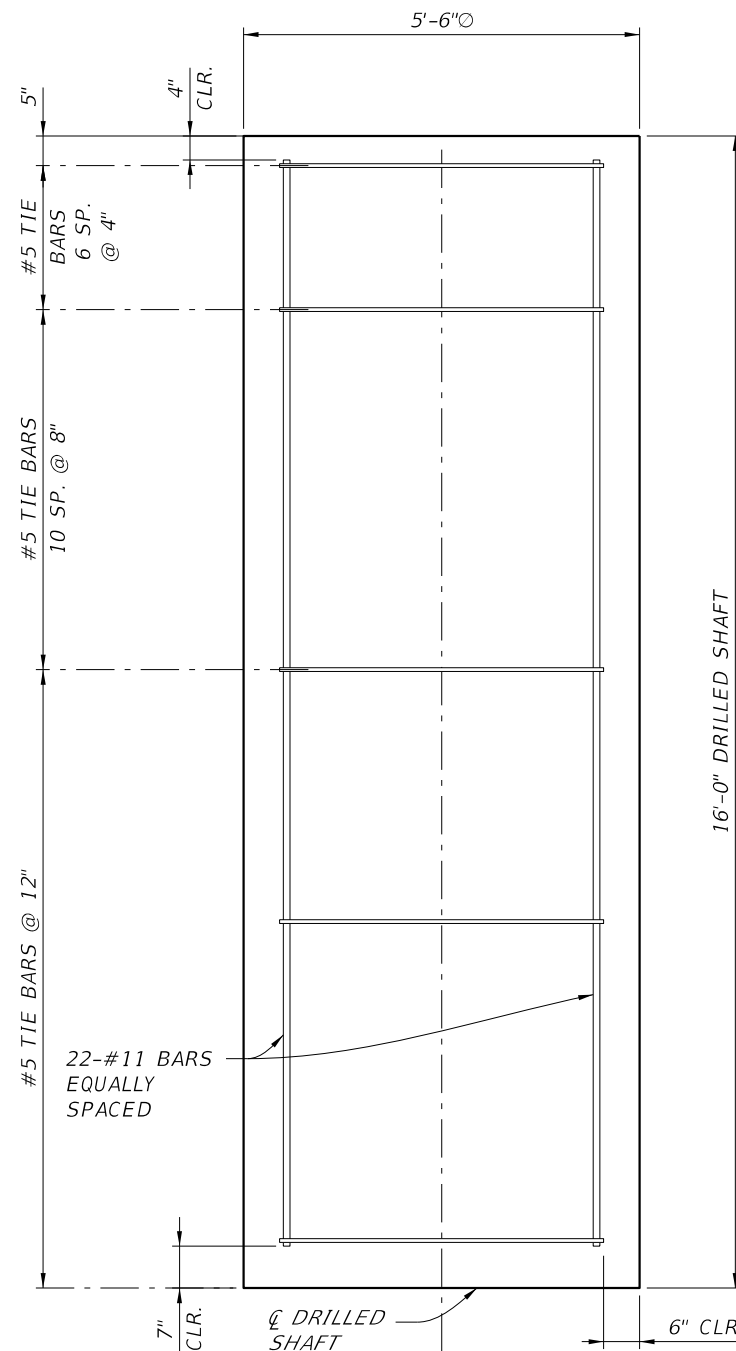
DETAIL 'A'

(REINFORCING STEEL NOT SHOWN FOR CLARITY)



SECTION C-C

(REINFORCING STEEL NOT SHOWN FOR CLARITY)



SECTION B-B

(ANCHOR BOLTS NOT SHOWN FOR CLARITY)

MAST ARM ASSEMBLIES GENERAL NOTES

1. SIGNAL STRUCTURE MATERIALS SHALL BE AS FOLLOWS:

UPRIGHT	-> ASTM A500 GRADE 55 OR GRADE 50 WITH MILL CERTIFICATION SHOWING FY=55 ksi
ARM TRUSS	-> ASTM A500 GRADE 50
STEEL PLATES	-> ASTM A36
WELD METAL	-> E70XX
BOLTS (EXCEPT ANCHOR BOLTS)	-> ASTM A325 TYPE 1
ANCHOR BOLTS	-> ASTM F1554 GRADE 55 ksi
NUTS FOR ANCHOR BOLTS	-> ASTM A563 GRADE A HEAVY HEX
WASHERS FOR ANCHOR BOLTS	-> ASTM F436 TYPE 1
HANDHOLE FRAME	-> ASTM A709 GRADE 36 ksi OR ASTM A36
HANDHOLE COVER	-> ASTM A1011 GRADE 50, 55, 60, OR 65 ksi
CAPS	-> ASTM A1011 GRADE 50, 55, 60, OR 65 ksi OR ASTM B209
NUT COVERS	-> ASTM B26 (319-F)
STAINLESS STEEL SCREWS	-> AISI TYPE 316
THREADED BARS / STUDS	-> ASTM A36 OR ASTM A307

2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 KSI.

3. CONCRETE SHALL BE CLASS IV (DRILLED SHAFT) WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 psi FOR ALL ENVIRONMENTAL CLASSIFICATIONS.

4. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (STEEL) ANSI/AWS D1.1 (CURRENT EDITION).

5. ALL NUTS, BOLTS, WASHERS, AND THREADED BARS/STUDS SHALL BE GALVANIZED IN ACCORDANCE WITH F2329. ALL OTHER STEEL ITEMS (INCLUDING POLE AND ARM) SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.

6. LOCATE HANDHOLE 180° FROM ARM TRUSS.

7. EXCEPT FOR ANCHOR BOLTS, ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16", HOLE DIAMETERS FOR ANCHOR BOLTS SHALL NOT EXCEED THE BOLT DIAMETER PLUS 1/2".

8. SIGNALS ATTACHED TO THE ARM TRUSS SHALL BE CENTERED IN ELEVATION ON THE ARM TRUSS. WIRE ACCESS HOLES SHALL NOT EXCEED 1 1/2" IN DIAMETER EXCEPT AS NOTED. MOUNTING HARDWARE FOR SIGNALS SHALL BE PROVIDED BY THE VENDOR.

9. THE POLE SHALL BE INSTALLED VERTICALLY. CAMBER SHALL BE ACCOUNTED FOR IN THE MAST ARM CONNECTION AS DETAILED.

10. DESIGN ACCORDING TO FDOT STRUCTURES MANUAL (2019 EDITION). ALTERNATE DESIGNS FOR SPECIAL MAST ARM ASSEMBLIES ARE NOT ALLOWED.

11. PROVIDE "J", "S", OR "C" - HOOK AT TOP OF POLE FOR SIGNAL CABLE SUPPORT.

12. ARM TRUSS CAMBER ANGLE = 1°

13. DETAILS FOR THE GROUND ROD, SIGNAL HEAD ATTACHMENT, PEDESTRIAN HEAD ATTACHMENT, AND FOUNDATION CONDUIT ARE NOT SHOWN FOR CLARITY.

14. SEE INDEX 649-031 FOR WELD INSPECTION NOTE.

15. SUBMIT SHOP DRAWINGS FOR REVIEW. INCLUDE VENDOR PROVIDED HARDWARE FOR MOUNTING TRAFFIC SIGNALS.

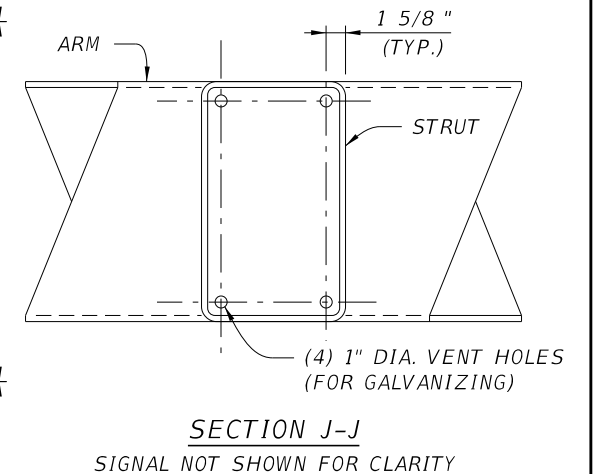
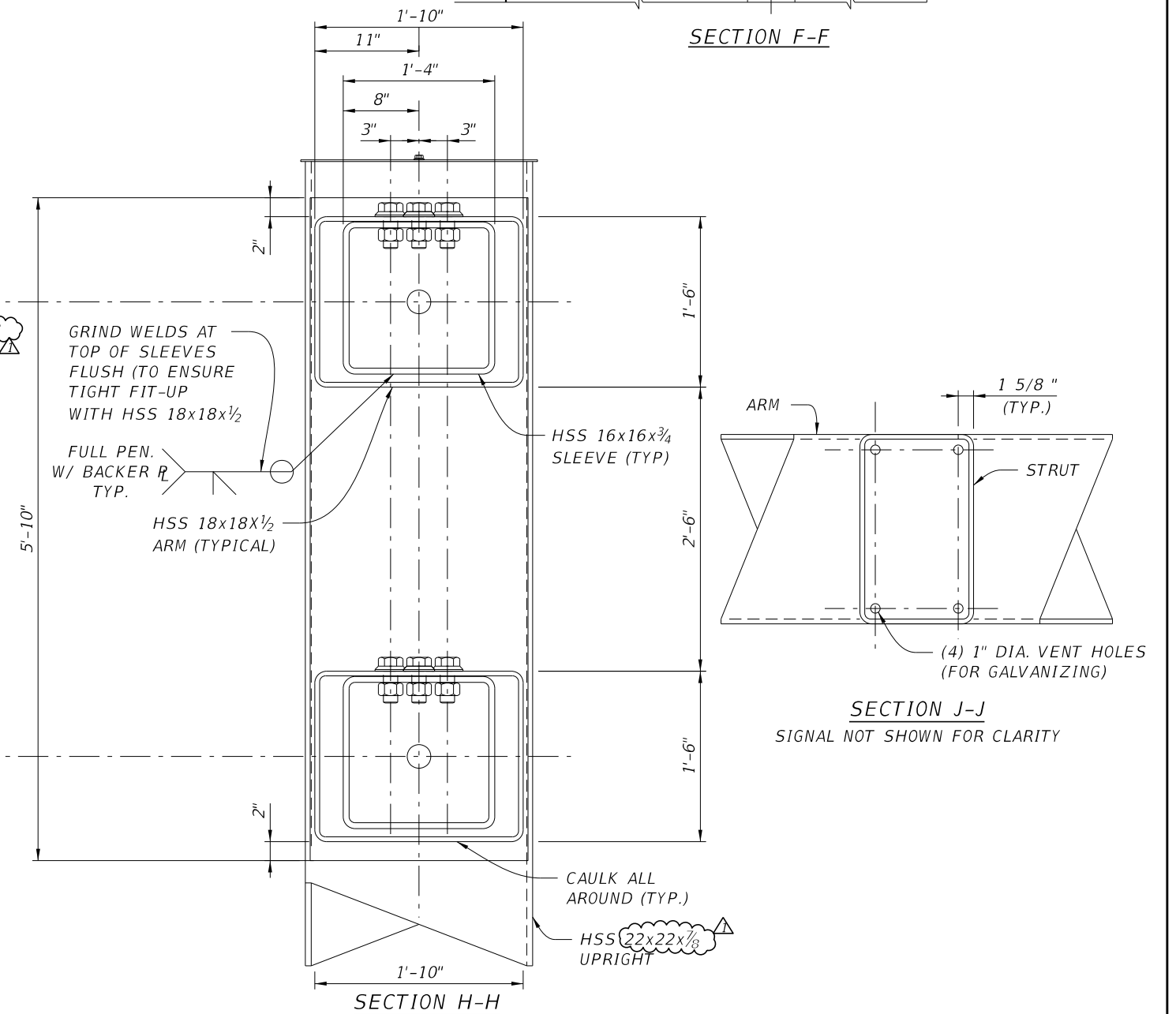
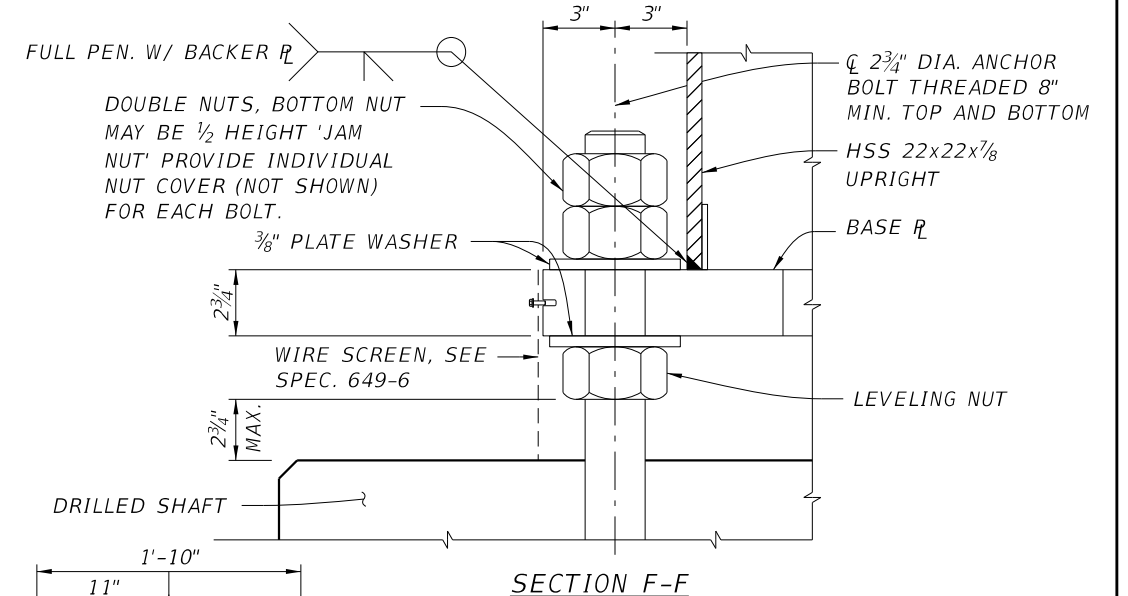
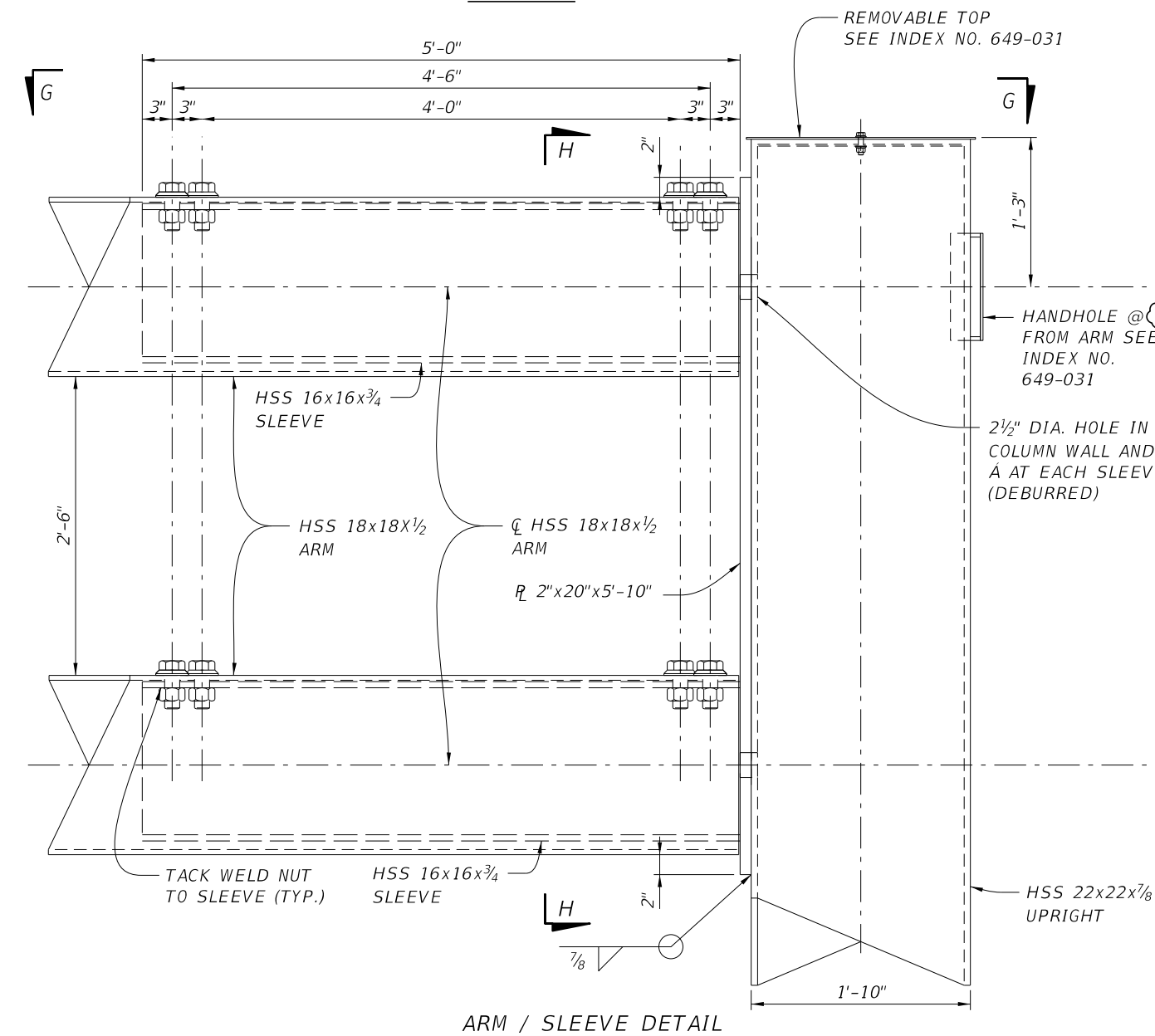
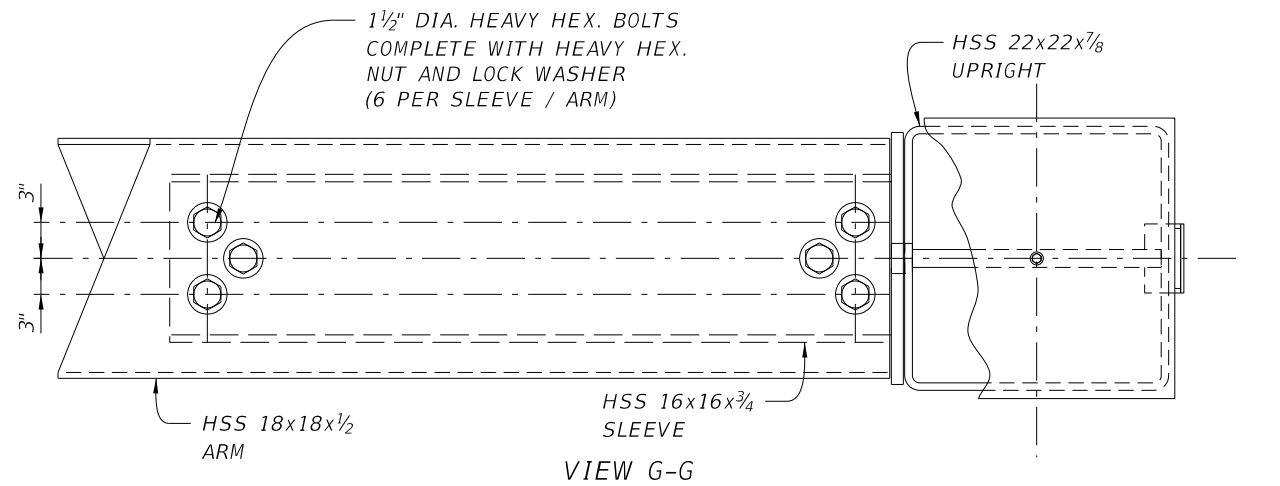
FOUNDATION NOTES

- DESIGN BASED ON BORINGS TAKEN ON 2/26/18 & 2/27/18 AND SEALED BY HR ENGINEERING SERVICES, INC.
- ASSUMPTIONS AND VALUES USED IN DESIGN:
  - SOIL TYPE SAND
  - SOIL LAYER THICKNESS = 16.0 ft.
  - SOIL FRICTION ANGLE = 33 deg.
  - EFFECTIVE SOIL WEIGHT = 50 pcf
  - N-BLOWCOUNT = 19
  - DESIGN WATER TABLE IS AT GROUND SURFACE

REVISIONS				DRMP, INC. 941 LAKE BALDWIN LANE, ORLANDO, FL 32814 PHONE: (407) 896-0594 FAX: (407) 896-4856 JOCELYN M.HAISCH-LINN LICENSE No. 60103 21	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  10 CAM # 21-0284
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		

MAST ARM DETAILS  
(1 OF 2)

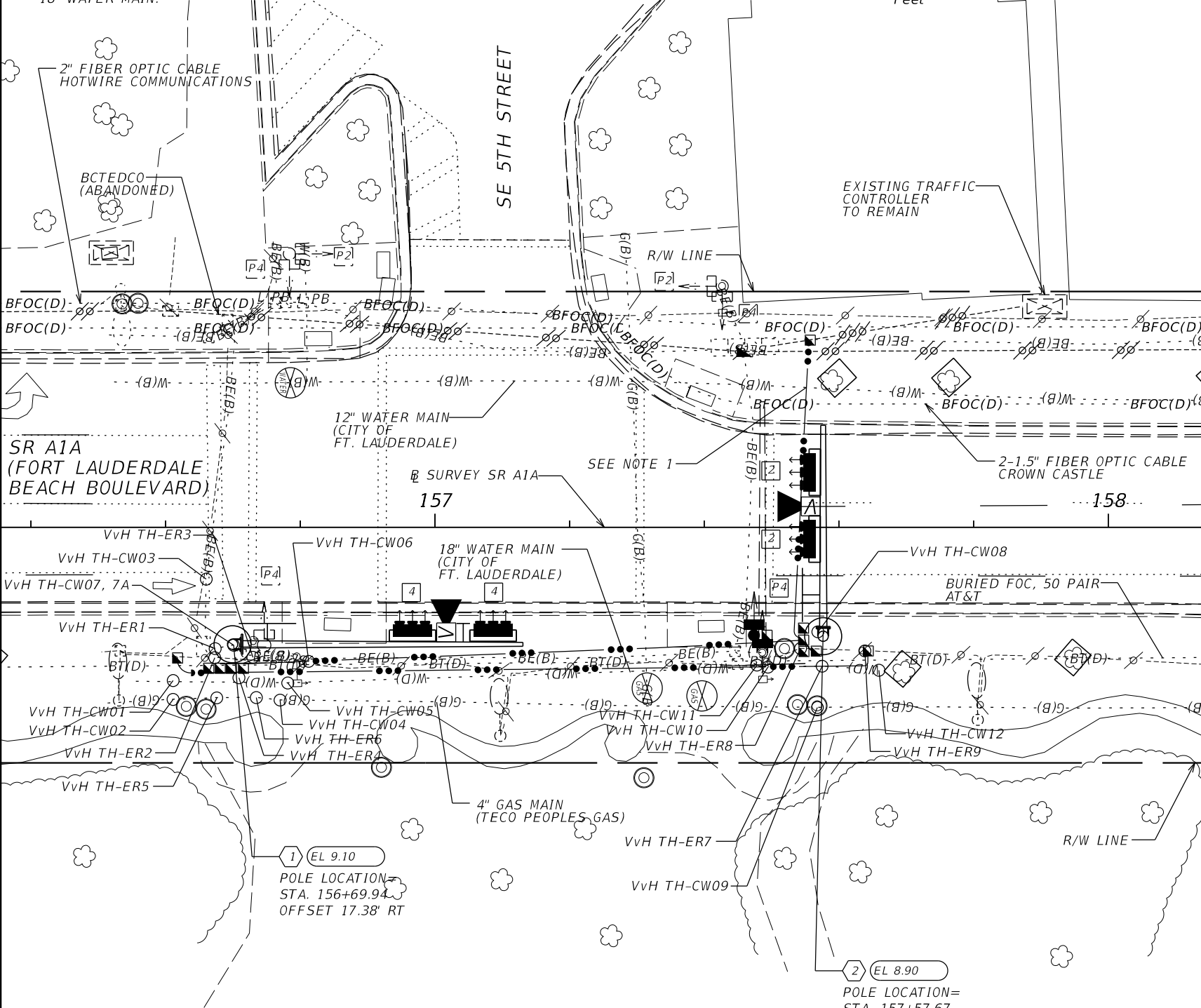
CAM # 21-0284  
Exhibit 1



REVISIONS				DRMP, INC. 941 LAKE BALDWIN LANE, ORLANDO, FL 32814 PHONE: (407) 896-0594 FAX: (407) 896-4856 JOCELYN M. HAISCH-LINN LICENSE No. 60103	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MAST ARM DETAILS (2 OF 2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
04/07/21	EFW  CORRECTED TYPOS				SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		

NOTES:

1. CONTRACTOR SHALL VERIFY THE LOCATION OF THE CITY OF FT. LAUDERDALE 12" WATER MAIN AND CROWN CASTLE FIBER OPTIC LINE IN THE NW QUADRANT PRIOR TO THE DIRECTIONAL BORING OF THE CONDUIT CROSSING SR A1A.
2. CONTRACTOR SHALL CONTACT RICK JOHNSON (954) 828-7809 AND GARRY BRANDY (954) 828-7864 FROM THE CITY OF FT. LAUDERDALE 72 HOURS PRIOR TO THE FOUNDATION INSTALLATION IN THE NE QUADRANT SO THAT THEY WILL BE PRESENT TO ENSURE PROTECTION OF THE CITY'S EXISTING 18" WATER MAIN.



REVISIONS				DRMP, INC. 6855 SW 18TH STREET, STE. 310, BOCA RATON, FL 33453 PHONE: (561) 451-8124 FAX: (561) 451-8142 23 CHRISTINE DALICKAS, P.E. LICENSE NUMBER 62423	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY LOCATION PLAN CAM # 21-0284 Exhibit 112 Page 23 of 29	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	436219-3-72-04 436219-3-72-05		

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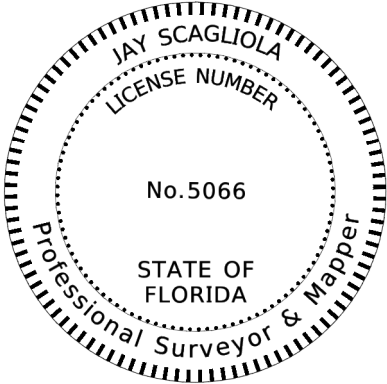
VERIFIED UTILITY LOCATE SHEET									
Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	B/L and/or C/L			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
TH-ER1	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	1"	PVC	156+67.4	18.0	RT	9.1	7.6	STA & OFF DERIVED FROM BL OF SURVEY OF A1A (TYP.)
TH-ER2	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	2"	PVC	156+67.3	19.4	RT	9.0	6.0	
TH-ER3	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	2x2"	PVC/PE	156+73.0	19.3	RT	9.2	6.3	
TH-ER4	CITY OF FT. LAUDERDALE, WATER MAIN	18"	DIP	156+70.9	22.4	RT	9.3	5.1	
TH-ER5	TECO PEOPLES, GAS MAIN	4"	COATED STL	156+67.6	25.3	RT	9.0	5.4	
TH-ER6	TECO PEOPLES, GAS MAIN	4"	COATED STL	156+73.5	25.3	RT	9.0	5.3	
TH-ER7	CITY OF FT. LAUDERDALE, WATER MAIN	18"	DIP	157+57.5	20.6	RT	8.9	5.0	
TH-ER8	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (SL)	2"	PVC	157+54.3	18.0	RT	8.9	6.2	
TH-ER9	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (SL)	2"	PVC	157+63.9	18.4	RT	8.7	6.2	
	TEST HOLES PERFORMED UNDER AMENDMENT 2								
									STA & OFF DERIVED FROM BL OF SURVEY OF A1A (TYP.)
TH-CW01	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	156+61.1	22.8	RT	9.0	4.8	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION
TH-CW02	TECO PEOPLES GAS, GAS MAIN	4"	STL	156+61.1	25.6	RT	9.1	5.4	
TH-CW03	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	3x2"	PVC	156+66.0	7.7	RT	8.6	6.1	
TH-CW04	TECO PEOPLES GAS, GAS MAIN	4"	STL	156+77.0	25.7	RT	9.0	5.3	
TH-CW05	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	156+78.1	23.1	RT	9.0	4.7	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION
TH-CW06	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	3x2"	PVC	156+81.3	19.9	RT	9.0	6.7	
TH-CW07	NO UTILITY FOUND, EXPLORATORY	N/A	N/A	156+70.1	17.5	RT	8.8	N/A	EXPLORATORY HOLE PERFORMED AT CENTER OF PROPOSED MAST ARM LOCATION TO A DEPTH OF ±10.0'
TH-CW07A	FP&L DISTRIBUTIONS, BURIED ELECTRIC	2"	PVC	156+70.1	17.5	RT	8.8	6.7	BE UTILITY LOCATED IN EXPLORATORY TEST HOLE CW07
TH-CW08	NO UTILITY FOUND, EXPLORATORY	N/A	N/A	157+56.9	15.5	RT	8.8	N/A	EXPLORATORY HOLE PERFORMED AT CENTER OF PROPOSED MAST ARM LOCATION TO A DEPTH OF ±10.0'
TH-CW09	TECO PEOPLES GAS, GAS MAIN	4"	STL	157+56.8	26.8	RT	9.1	5.7	
TH-CW10	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	157+49.5	20.8	RT	9.0	5.6	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION
TH-CW11	UNKNOWN OWNER, UNKNOWN UTILITY	2"	CPP	157+47.8	20.5	RT	8.9	6.1	
TH-CW12	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	157+66.0	21.2	RT	9.1	5.3	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION

SUBSURFACE UTILITY ENGINEERING NOTES:

1. OWNERSHIP IS BASED UPON OBSERVING VISIBLE ABOVE GROUND UTILITY FEATURES, SUNSHINE 811 DIG TICKET AND PROFESSIONAL JUDGEMENT.  
NO RECORDS RESEARCH WAS PERFORMED BY WGI, INC.

SURVEYOR'S NOTES:

1. SURVEY WAS PERFORMED BY WGI, INC.
2. VERTICAL INFORMATION IS RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), ADJUSTMENT 2011.
4. STATION AND OFFSET DERIVED FROM BASELINE OF SURVEY OF SR A1A AS PROVIDED BY FDOT PROJECT NETWORK CONTROL (PNC) FINANCIAL PROJECT ID 436219-3-72-04.
5. PROJECT UNITS: U.S. SURVEY FEET.
6. THE SPECIFIC PURPOSE OF SURVEY IS TO DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF VACUUM TEST HOLES AS MARKED ON THE SURFACE BY THE SUBSURFACE UTILITY ENGINEERING DEPARTMENT OF WGI, INC.
7. WGI PROJECT # 2571.42



PROJECT LIMITS: INTERSECTION OF SR A1A AND SE 5TH ST.

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THIS SPECIFIC PURPOSE SURVEY WAS MADE FOR THE PURPOSE OF SURVEYING, REFERENCING, DESCRIBING AND MAPPING THE VACUUM EXCAVATION TEST HOLES, AS MARKED ON THE SURFACE AND SURVEYED BY WGI INC. AND THAT MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS MAP CONSISTING OF SHEET UTV-1 IS A TRUE, ACCURATE AND COMPLETED DEPICTION OF THE RESULTS OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON OCTOBER 06, 2020.

THIS SHEET HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS SHEET ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

WGI INC.  
2035 VISTA PARKWAY  
WEST PALM BEACH, FL 33411  
JAY SCAGLIOLA, PSM No. 5066

THE ABOVE NAMED PROFESSIONAL SURVEYOR & MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C

SHEET NO.                      SHEET DESCRIPTION  
UTV-1                              VERIFIED UTILITY LOCATE SHEET

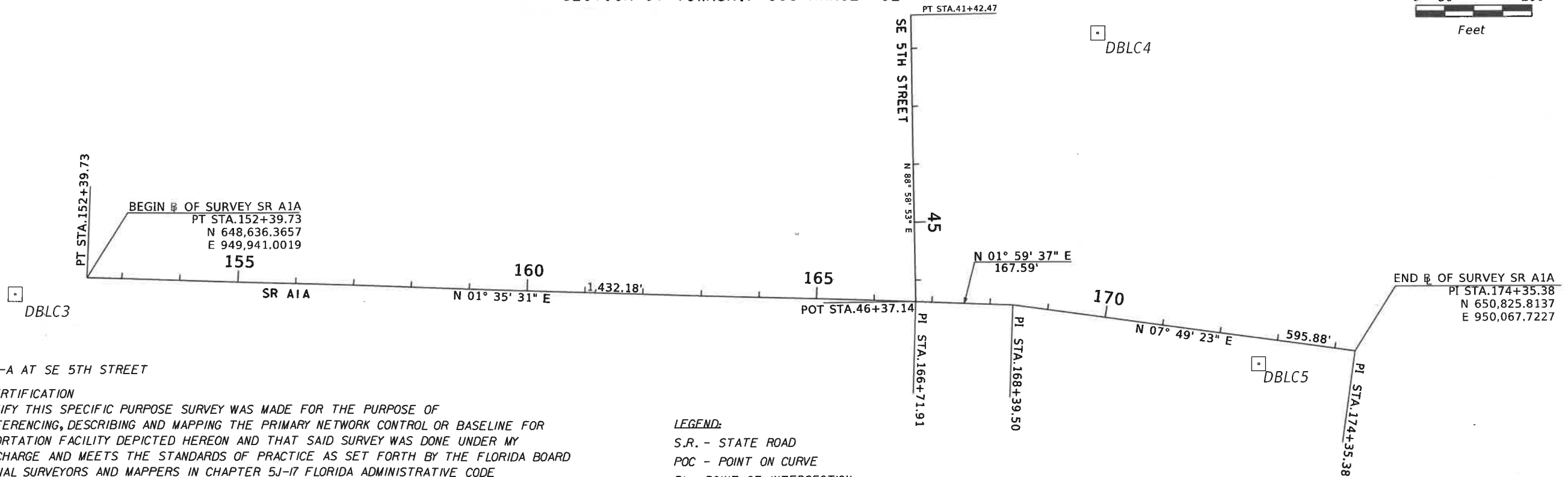
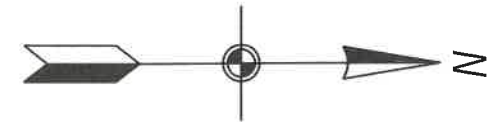
REVISIONS				JAY SCAGLIOLA, PSM SURVEYOR LICENSE NUMBER 5066 WGI INC. 2035 VISTA PARKWAY, SUITE 100 24 WEST PALM BEACH, FL 33411	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			VERIFIED UTILITY LOCATE SHEET	CAM # 21-0284 Exhibit V-1 Page 24 of 29	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					A1A	BROWARD	436219-3-72-04			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 5J-17.062, F.A.C.

PROJECT CONTROL POINTS

OF SURVEY SR A1A

SECTION 07 TOWNSHIP 50S RANGE 43E



LIMITS: SR A-1-A AT SE 5TH STREET

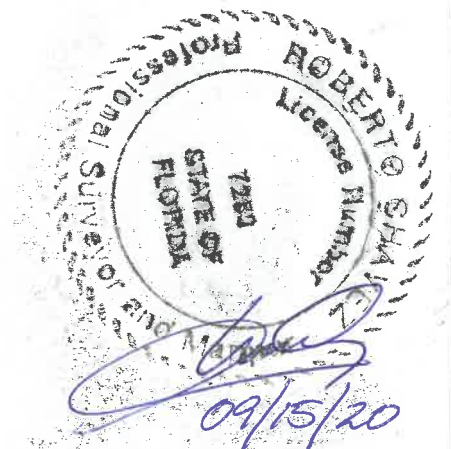
SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THIS SPECIFIC PURPOSE SURVEY WAS MADE FOR THE PURPOSE OF SURVEYING, REFERENCING, DESCRIBING AND MAPPING THE PRIMARY NETWORK CONTROL OR BASELINE FOR THE TRANSPORTATION FACILITY DEPICTED HEREON AND THAT SAID SURVEY WAS DONE UNDER MY RESPONSIBLE CHARGE AND MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS MAP CONSISTING OF SHEET CTL-1 IS A TRUE, ACCURATE AND COMPLETE DEPICTION OF THE RESULTS OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON NOVEMBER 29, 2017

SURVEYOR Roberto Chavez P.S.M.  
SURVEYOR LICENSE NUMBER 7280  
Florida Department of Transportation  
3400 W. Commercial Blvd.  
Ft. Lauderdale, Fl. 33309

BASELINE AND DBLC3, DBLC4 AND DBLC5 TAKEN FROM PNC SHEET FM# 430601-1-52-01.  
BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES, FLORIDA EAST ZONE, NORTH AMERICAN DATUM (NAD) OF 83/90 ADJUSTMENT  
A BEARING OF N 03° 13' 26.7" E HAS BEEN ESTABLISHED BETWEEN DBLC3 STAMPED C3 AND DBLC5 STAMPED C5.  
VERTICAL DATUM N.A.V.D. 1988  
PROJECT UNITS U.S. SURVEY FEET  
BASELINE OF SURVEY IS NOT STAKED IN THE FIELD.  
ELECTRONIC DATABASE: 6512.ZIP

LEGEND:  
S.R. - STATE ROAD  
POC - POINT ON CURVE  
PI - POINT OF INTERSECTION  
PT - POINT OF TANGENCY  
FND - FOUND  
STMD - STAMPED DISK  
POT - POINT ON TANGENT  
Δ - CURVE DELTA ANGLE  
D - DEGREE  
T - TANGENT  
R - RADIUS  
L - LENGTH OF CURVE  
STA - STATION  
RT - RIGHT  
LT - LEFT  
□ - BRASS DISK IN CONCRETE



PROJECT NETWORK CONTROL TABULATION SHEET DETAILS

POINT NAME	(X) EASTING	(Y) NORTHING	SCALE FACTOR	LATITUDE	LONGITUDE	BASELINE STATION	OFFSET	(Z) ELEVATION	DESCRIPTION
DBLC3	949,969.0021	648,512.5683	1.00004015	26°06'54.13738	80°06'16.69477	151+24.67	RT 43.74'	10.49'	BRASS DISK IN CONCRETE STAMPED A1A-86 12 C3
DBLC4	949,518.2793	650,382.9317	1.00003985	26°07'12.69112	80°06'21.49825	169+21.83	LT 484.05'	5.51'	BRASS DISK IN CONCRETE STAMPED A1A-86 12 C4
DBLC5	950,089.8869	650,658.5741	1.00004024	26°07'15.38246	80°06'15.20667	172+72.71	RT 44.72'	9.61'	BRASS DISK IN CONCRETE STAMPED A1A-86 12 C5

REVISIONS						Roberto Chavez P.S.M. SURVEYOR LICENSE NUMBER 7280 Florida Department of Transportation 3400 W. Commercial Blvd. Ft. Lauderdale, Fl. 33309	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR A1A	BROWARD	436219-3-72-04	

PROJECT CONTROL

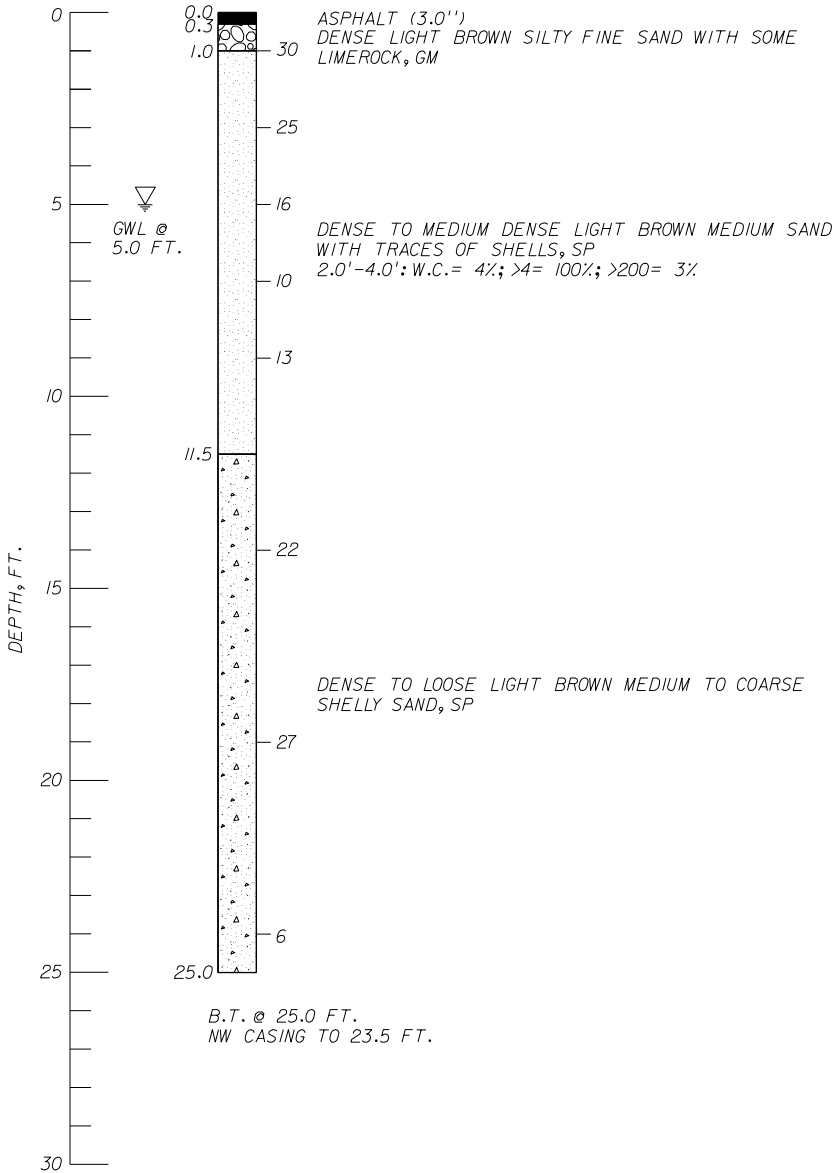
CAM # 21-0284  
Exhibit 4  
Page 25 of 29

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 5J-17.062, F.A.C.

MA-1

LATITUDE: 26.11652°  
LONGITUDE: -80.10467°  
STATION: 156+55  
OFFSET: 2 RT  
DATE: 02/27/18

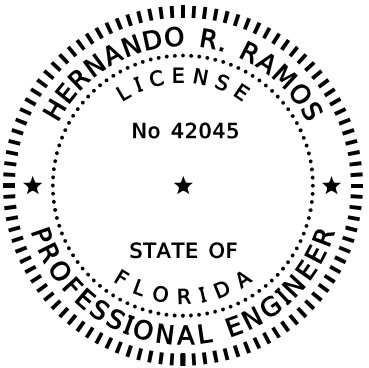
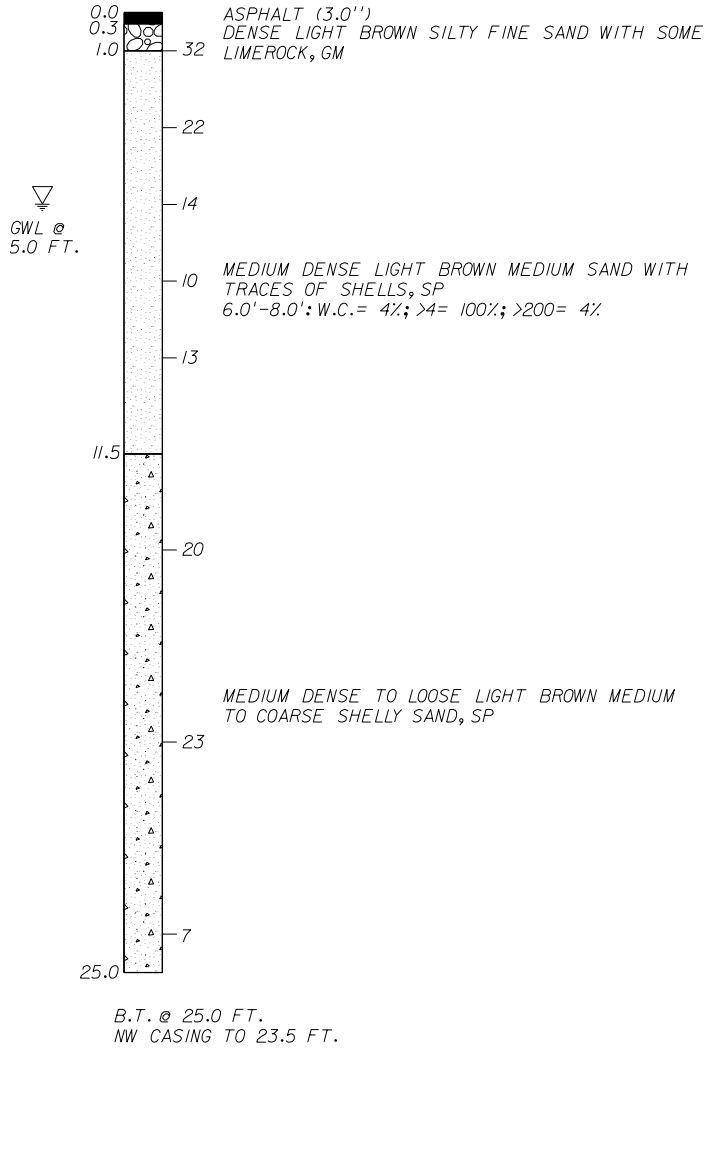
DEPTH, FT. N



MA-2

LATITUDE: 26.11679°  
LONGITUDE: -80.10465°  
STATION: 157+55  
OFFSET: 5 RT  
DATE: 02/26/18

DEPTH, FT. N



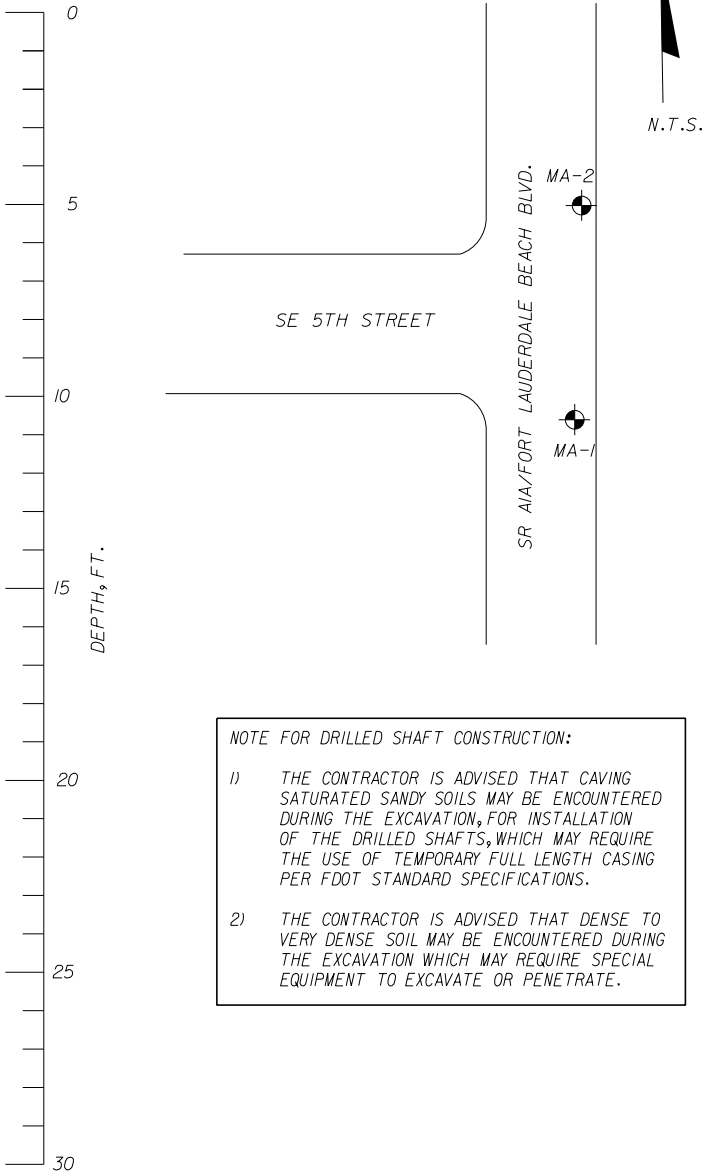
THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON THE ELECTRONIC COPIES.

HR ENGINEERING SERVICES, INC.  
7815 NW 72ND AVENUE  
MEDLEY, FL 33166  
HERNANDO R. RAMOS, P.E. NO. 42045

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23-004, F.A.C.



NOTE FOR DRILLED SHAFT CONSTRUCTION:

1) THE CONTRACTOR IS ADVISED THAT CAVING SATURATED SANDY SOILS MAY BE ENCOUNTERED DURING THE EXCAVATION, FOR INSTALLATION OF THE DRILLED SHAFTS, WHICH MAY REQUIRE THE USE OF TEMPORARY FULL LENGTH CASING PER FDOT STANDARD SPECIFICATIONS.

2) THE CONTRACTOR IS ADVISED THAT DENSE TO VERY DENSE SOIL MAY BE ENCOUNTERED DURING THE EXCAVATION WHICH MAY REQUIRE SPECIAL EQUIPMENT TO EXCAVATE OR PENETRATE.

VERTICAL SCALE: 0 1 5  
HORIZONTAL SCALE: NTS  
HRES PROJECT No.: HRI7-1347R

LEGEND:



▶ WATER LOSS

▽ GROUND WATER LEVEL AT BORING  
COMPLETION

B.T. BORING TERMINATED

N: STANDARD PENETRATION RESISTANCE  
(AUTOMATIC HAMMER)

W.C.: WATER CONTENT

O.C.: ORGANIC CONTENT

>4: PERCENT PASSING #4 SIEVE

>200: PERCENT PASSING #200 SIEVE

HAMMER WEIGHT = 140 LB

DROP HEIGHT = 30 IN

THE TEST BORINGS WERE PERFORMED BY HRES  
USING A CME-55 TRUCK MOUNTED RIG.

GRANULAR MATERIALS:

DENSITY	SPT N-VALUE (BLOWS/12 INCHES)
VERY LOOSE	<3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	>40

SILTS AND CLAYS:

CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	<1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	>24

REVISIONS						HERNANDO R. RAMOS, P.E. P.E. LICENSE NUMBER 42045 HR ENGINEERING SERVICES, INC 7815 NW 72ND AVENUE MEDLEY, FLORIDA 33166	26	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:  REPORT OF CORE BORINGS		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:  SR A1A/FORT LAUDERDALE BEACH BLVD AT SE 5 ST	CAM # 21-0284 Exhibit 1 Page 26 of 29	SHEET NO.  GT - 1
								DRAWN BY: ME 02 - 18					
								CHECKED BY: NH 02 - 18					
								DESIGNED BY: NH 02 - 18					
								CHECKED BY: HRR 02 - 18					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

**EXHIBIT C**

**BROWARD COUNTY ACKNOWLEDGEMENT LETTER** (attached)

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PUBLIC WORKS DEPARTMENT  
**TRAFFIC ENGINEERING DIVISION**

2300 W. Commercial Boulevard • Fort Lauderdale, Florida 33309 • 954-847-2600

July 9, 2020

Mr. Mark Plass, P.E.  
District Traffic Operations Engineer  
Florida Department of Transportation, District Four  
3400 West Commercial Boulevard  
Fort Lauderdale, FL 33309

Subject: FPID No. 436219-3-72-04  
SR A1A at SE 5 Street  
Mast-arm Painting Maintenance by City of Fort Lauderdale

Dear Mark,

Broward County has no objection to the City of Fort Lauderdale painting and/or maintaining the paint finish on the traffic signal trombone mast-arms and related structures at the intersection of SR A1A at SE 5 Street as part of FPID No. 436219-3-72-04. The County does not object to the City of Fort Lauderdale and the Department entering into a maintenance agreement to perform and/or maintain the mast-arm painting in accordance with the District's mast-arm painting procedures and any other applicable paint-over-galvanized steel structure standards and specifications. County staff would appreciate at least seven (7) calendar days notification of any scheduled paint finish maintenance work to avoid conflicts with any signal equipment maintenance to be performed by our agency.

If you have any questions, please feel free to contact me at (954) 847-2600.

Sincerely,

A handwritten signature in blue ink, reading "Andrew G. Sebo".

Andrew G. Sebo, P.E., PTOE  
Interim Director, Traffic Engineering Division

cc: Anh Ton, P.E., Acting Deputy Director, Public Works Department  
Yves d'Anjou, P.E., Acting Assistant Director, Traffic Engineering Division  
SR A1A at SE 5 Street Intersection File



## EXHIBIT D

### MAINTENANCE PLAN REQUIREMENTS

The **AGENCY** shall submit to the **DEPARTMENT** a maintenance plan detailing the means and methods for accomplishing repairs to the colored coatings on mast arm assemblies and bollards in accordance with all **DEPARTMENT** Standards, Procedures and Specifications. This plan must be submitted and approved by the **DEPARTMENT** prior to commencing any maintenance or repair activities. The plan should at minimum detail how the **AGENCY** will address the following:

1. Providing for continuous traffic control and necessary traffic control devices as required for the safe movement of traffic of vehicular and pedestrian traffic past the location of the structure being repaired for the duration of the repair in accordance with **DEPARTMENT** Standards, Procedures and Specifications.
2. Protection of adjacent surrounding property, real estate, vehicles, pedestrians, attachments to the light poles, or other assets during the preparation and recoating of surfaces.
3. Containment of debris or materials used in or resulting from the repair.

After the maintenance plan is approved, the **AGENCY** shall submit a work plan to the **DEPARTMENT** for approval prior to each repair to be performed detailing:

1. The proposed date of the repair
2. The location of the repair
3. The nature of the repair
4. The materials to be used for the repair
5. The methods to be used for the repair