

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

**DISTRICT FOUR
MAINTENANCE MEMORANDUM OF AGREEMENT**

THIS AGREEMENT, made and entered into this date _____ day of _____, 2020 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 SR A1A between (M.P.) 0.137 and (M.P) 2.344, Fort Lauderdale; and

WHEREAS, the **DEPARTMENT** and **AGENCY** seeks to install and have maintained by the **AGENCY** certain highway **IMPROVEMENTS**; 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 SR A1A between (M.P.) 0.137 and (M.P) 2.344 (within the limits of the **AGENCY**); and

WHEREAS, it is the intent of the **AGENCY** and the **DEPARTMENT** that the **DEPARTMENT** shall construct and the **AGENCY** shall maintain the specific elements constructed under **FM# 44007215201** to include decorative pedestrian lighting that will comply with sea turtle laws, rules, and regulations along over SR A1A between (M.P.) 0.137 and (M.P) 2.344, hereinafter called **IMPROVEMENTS**; and

WHEREAS, the parties shall also enter into a Joint Participation Agreement (JPA) concerning the funding of these **IMPROVEMENTS**; and

WHEREAS, the Project involves the scope of work as described within **Exhibit A (Project Location, Description and Project Aerial)** and **Exhibit B (Construction Plans)**, which will benefit the **AGENCY**; 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 Number _____ entered into this date _____, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

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

- A. The **DEPARTMENT** shall construct, under **Project Number 444007215201**, the **IMPROVEMENTS** as detailed in Exhibit A (**Project Location, Description and Project Aerial**) and Exhibit B (**Construction Plans**) that will benefit the **AGENCY**.
- B. If there are any major changes to the plans(s), the **DEPARTMENT** shall provide the modified plans(s) to the **AGENCY** and the **AGENCY** shall provide their approval or disapproval to the **DEPARTMENT** within ten (10) business days. The **DEPARTMENT** may elect to withdraw the **IMPROVEMENTS** if changes are not approved within the given time frame.
- C. The **AGENCY** shall be invited to assist the **DEPARTMENT** in final inspection before acceptance of the job by the **DEPARTMENT**.
- D. All lighting shall be installed in accordance with the Florida Fish and Wildlife Conservation Commission approved lighting plan included in Florida Department of Environmental Protection Coastal Construction Line Permit #BO-781 and any FWC – approved lighting plan amendments included in subsequent permit modifications.

3. MAINTENANCE OF FACILITIES

A. The **AGENCY** agrees to maintain the **IMPROVEMENTS** to be installed along SR A1A between (M.P.) 0.137 and (M.P) 2.344 within the limits of construction. Maintenance by the **AGENCY** will include repair, restoration, and general maintenance of all decorative or non-standard SR-A1A/SE 17th St/Seabreeze Blvd.; A1A/Ft. Lauderdale Bch Blvd./N Ocean Blvd features. **IMPROVEMENTS** include decorative pedestrian lighting.

- 1) The **AGENCY** agrees to maintain, at its sole cost and expense, the **IMPROVEMENTS** set forth in **Exhibit A** in compliance with any and all applicable laws which shall include, but not be limited to, laws and regulations relating to the Americans with Disabilities Act ("ADA") of 1990, as currently enacted or as may be amended from time to time.
- 2) Only the long wavelength (greater than 560 nm), amber diodes in the amber lighting circuit shall be illuminated during marine turtle nesting season, March 12

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

through October 31, for as long as the pole fixtures remain in place. White diodes may only be energized between November 1 and March 1, outside sea turtle nesting season.

- 3) The Agency shall install and manage an electronic control system that shall automatically switch the lights from white to amber on March 1 each year the fixtures remain in place.
- 4) The **IMPROVEMENTS** shall be kept clean and free from trash and debris. The **IMPROVEMENTS** shall be kept free of graffiti. The **IMPROVEMENTS** shall be free of pests such as stinging insects, rodents and vermin, including removal of nests as needed.
- 5) As part of the maintenance responsibility, the **AGENCY** shall keep in good repair and replace, defective or worn out parts of the **IMPROVEMENTS**. The **AGENCY's** responsibility to keep the **IMPROVEMENTS** in good repair shall include all necessary maintenance, repair and replacement of any type or nature, including, but not limited to, maintenance, repair and replacement due to normal wear and tear, named storm event, acts of God, vandalism and accidents. The **AGENCY** shall take all necessary steps to maintain the **IMPROVEMENTS** in a manner to protect against injury to any person or property.
- 6) Subject to the above considerations for sea turtles, the **AGENCY** shall perform all activities necessary to keep the **IMPROVEMENTS** fully operating, properly functioning, with a minimum of 90% of the lights burning for any lighting type or roadway system at all times for their normal expected useful life in accordance with the original design thereof, whether necessitated by normal wear and tear, accidental or intentional damage, or acts of nature. Said maintenance shall include, but shall not be limited to, providing electrical power and paying all charges associated therewith, routine inspection and testing, preventative maintenance, emergency maintenance, replacement of any component parts of the **IMPROVEMENTS** (including the poles and any and all other component parts installed as part of the **IMPROVEMENTS**), and locating (both vertically and horizontally) the **IMPROVEMENTS**, as may be necessary.
- 7) Lighting assemblies and systems shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. Lighting shall meet requirements for sea turtle nesting and hatching seasons. Lights may be required to be turned off if they fail to meet the requirements of the law or violate the Endangered Species Act or other law.
- 8) 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 relating to the maintenance obligation / function or **AGREEMENT** termination.

- 9) The **AGENCY** shall be solely responsible for any damages to surrounding property, real estate, vehicles, pedestrians, or other assets occurring as a result of maintenance and operation of the **IMPROVEMENTS** and shall repair such damage to the satisfaction of the **DEPARTMENT** at no expense to the **DEPARTMENT**, as per the requirements in **Exhibit C (Maintenance Plan Requirements)**.
 - 10) The **AGENCY** shall be responsible to maintain the light pole structures and electrical components. The **AGENCY** shall replace the structure if destroyed in an accident by third parties.
- B. The **AGENCY** shall indemnify the **DEPARTMENT** for any and all costs or expenses incurred by the **DEPARTMENT** for the **AGENCY's** failure to comply with all ADA Laws existing and as may be amended. Costs and expenses shall include the costs to make the facility ADA compliant, Attorney's fees and costs and any judgments. Adjacent sidewalk areas shall be accessible at all times. If sidewalk closures are needed, alternate routes shall be clearly identified, and missing sidewalk shall be restored either with permanent or temporary materials at the end of each work day.
- C. 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 **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.
- D. 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) Florida Green Book, (c) Standard Specifications for Roadway and Bridge Construction, (d) FDOT Standard Plans and (e) Manual on Uniform Traffic Control Devices (MUTCD).
- E. If it becomes necessary to provide utilities (water/electricity) to these **IMPROVEMENTS**, all costs associated with the utilities, accent lighting and/or irrigation systems including, but not limited to the impact and connection fees, and the on-going cost of utility usage for water and electrical, are the maintaining **AGENCY's** responsibility.
- 1) The **AGENCY** shall be directly responsible for impact and connection fees.

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

AND

- 2) The **AGENCY** shall become responsible for the above-named **IMPROVEMENTS** and ongoing utility costs upon final acceptance of the construction project by the **DEPARTMENT** and thereafter.
- F. Any work impacting traffic flow along SR A1A between (M.P.) 0.137 and (M.P.) 2.344. 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) 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**.
 - 3) If there is no standard equivalent item or if in the **DEPARTMENT's** discretion the item is not necessary for the operations of the roadway, the **DEPARTMENT** may remove the item in its entirety and restore the area to a condition acceptable to the **DEPARTMENT**. 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 this Agreement and remove, by the **DEPARTMENT** or its Contractor's personnel, all of the **IMPROVEMENTS** installed 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:

- 1) 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**.
- 2) The **AGENCY** shall procure a permit and/or Construction Agreement from the **DEPARTMENT**, as appropriate.
- 3) All **IMPROVEMENTS** shall be developed and implemented in accordance with appropriate state safety and roadway design standards.
- 4) 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:

- 1) 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.
- 2) 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.
- 2) 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** shall 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 and its acts.
- B. In the event that **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:

- 1) 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
- 2) 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 hereof that are not merged herein and superseded hereby except the Local Funded Agreement(s) and State Highway Lighting Maintenance and Compensation Agreement(s) signed between the parties, as amended, as to all other **IMPROVEMENTS** not specifically mentioned in this Agreement. The street lights installed under this project will be compensated as street lights under the State Highway Lighting Maintenance and Compensation Agreement. If the **DEPARTMENT** and **AGENCY** fail to agree on the annual lump sum amount to be paid under the State Highway Lighting Maintenance and Compensation Agreement, this Agreement shall supersede that Agreement and the **AGENCY** agrees to maintain the lights solely under this Agreement.

12. EXPENDITURE OF MONEY

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

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

value thereof; and his decision upon all claims, questions and disputes shall be final and conclusive upon the parties hereto.

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. The **AGENCY** agrees the venue for any dispute under this contract 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, City Manager
100 North Andrews Avenue
Fort Lauderdale, FL 33301

17. LIST OF EXHIBITS

Exhibit A: Project Location, Description and Project Aerial
Exhibit B: Lighting Plans
Exhibit C: Maintenance Plan Requirements

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first above written.

AGENCY

CITY OF FORT LAUDERDALE, a municipal
Corporation of the State of Florida

By: _____ Date: _____
Christopher J. Lagerbloom, ICMA-CM
City Manager

ATTEST:

_____ Date: _____
Jeffrey A. Modarelli, City Clerk

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

By: _____ Date: _____
Shari C. Wallen, Esq.
Assistant City Attorney

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
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DEPARTMENT:

ATTEST:

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

Executive Secretary
(SEAL)

Sign: _____
Paul A. Lampley, P. E., Director of Operations

Print Name: _____

Date: _____
Approval as to Form:

Sign: _____
Dawn Raduano, District General Counsel

Print Name: _____

Date: _____

SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

EXHIBIT A

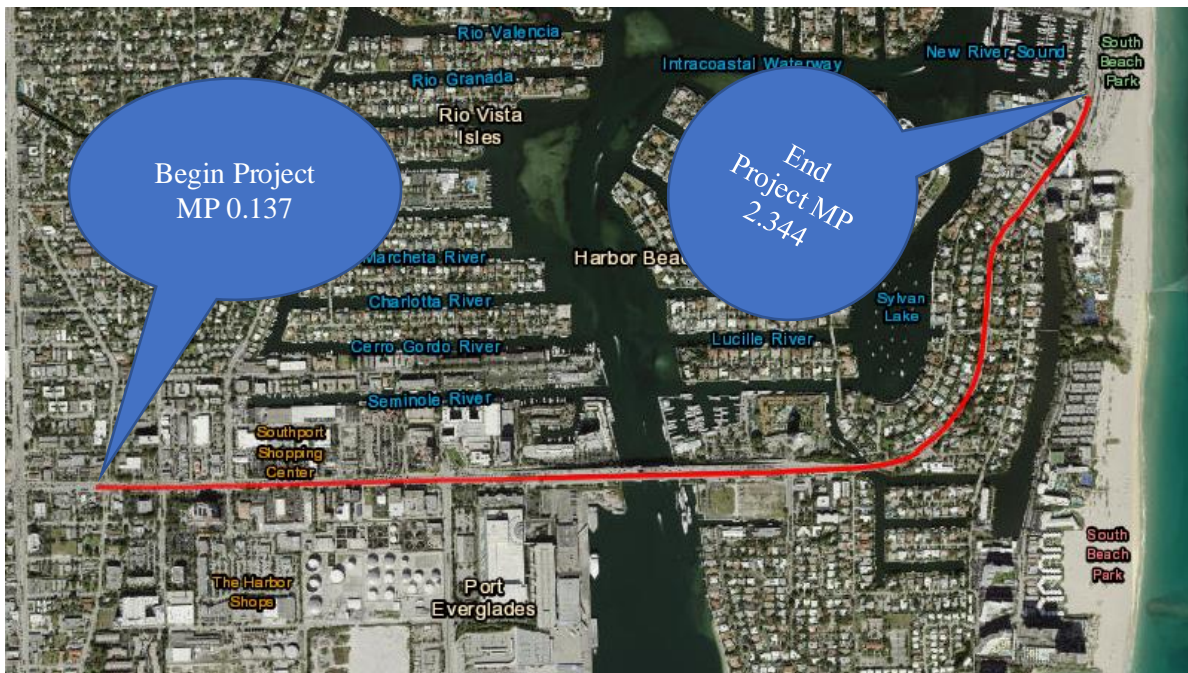
PROJECT LOCATION, AND MAP

Location:

The **IMPROVEMENTS** associated with this Agreement are located within the City of Fort Lauderdale, in Broward County, Florida along SR A1A between (M.P.) 0.137 and (M.P) 2.344.

LOCATION MAP:

Project Aerial:



SECTION NO.: 86180
FM: 44007215201
COUNTY: Broward
State Road: A1A/SE 17th
Street/Seabreeze Blvd
Agreement No: 20200407-1

EXHIBIT B

LIGHTING PLANS

Lighting Plans by Oliver Remy Rodrigues, P. E. and Gary Ng, P. E., Florida Transportation Engineering, Inc. dated February 6, 2020 as approved by the Department.

44007215201 LIGHTING PLANS (attached)

Sheets Included:

PDF Page Number (#)	Plan Sheet (#)	Sheet(s) Description
14	L-1	KEY SHEET
15-16	L-2 thru L-2A	SIGNATURE SHEET
17	L-3	TABULATION OF QUANTITIES
18-22	L-4 thru L-8	SUMMARY OF QUANTITIES
23	L-9	PROJECT LAYOUT
24	L-10	GENERAL NOTES
25-26	L-11 – L-11A	POLE DATA AND LEGEND
27-34	L-12 – L-19	LIGHTING PLAN
35-36	L-20 thru L-21	LIGHTING DETAILS
37	L-20A	LIGHTING DETAILS
38	L-22	TEMPORARY TRAFFIC CONTROL PLAN
39-46	L-23 thru L-30	UTILITY ADJUSTMENTS
47-48	UTV-1 thru UTV-2	SUMMARY OF VERIFIED UTILITIES
49-54	GRX-1 thru GRX-6	EXISTING REPORT OF CORE BORINGS

CONTRACT PLANS COMPONENTS
LIGHTING PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

THIS PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID(S):
440073-1-52-01, 440074-1-52-01

CONTRACT PLANS

FINANCIAL PROJECT ID 440072-1-52-01
(FEDERAL FUNDS)

BROWARD COUNTY (86180)

STATE ROAD NO. A1A / SE 17TH STREET / SEABREEZE BLVD.
FROM MIAMI ROAD TO HARBOR DRIVE

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	TABULATION OF QUANTITIES
L-4 - L-8	SUMMARY OF QUANTITIES
L-9	PROJECT LAYOUT
L-10	GENERAL NOTES
L-11 - L-11A	POLE DATA AND LEGEND
L-12 - L-19	LIGHTING PLAN
L-20 - L-21	LIGHTING DETAILS
L-20A	LIGHTING DETAILS
L-22	TEMPORARY TRAFFIC CONTROL PLAN
L-23 - L-30	UTILITY ADJUSTMENTS
UTV-1 - UTV-2*	SUMMARY OF VERIFIED UTILITIES
GRX-1 - GRX-6	EXISTING REPORT OF CORE BORINGS

* These sheets are included in the Index of Lighting Plans only to indicate that they are part of the Lighting Plans. These sheets are contained in a separate digitally signed and sealed document.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2018-19 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

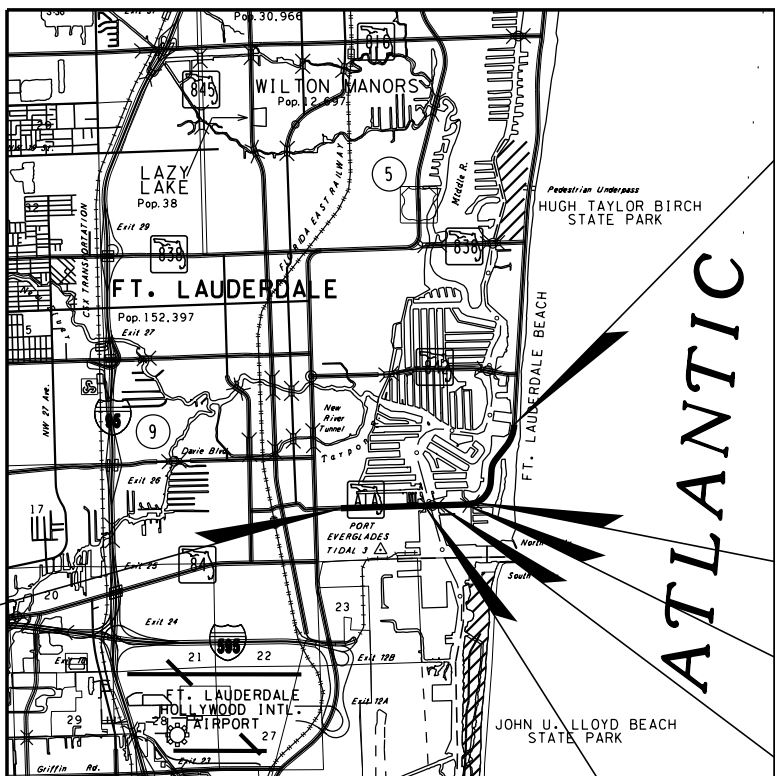
APPLICABLE IRs: N/A

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



T-49-S
T-50-S



T-49-S
T-50-S

TO POMPANO
BEACH

END PROJECT
STA. 133+30.00
MP 2.344

T-49-S
T-50-S

END BRIDGE
STA. 90+83.90
MP 1.533

BEGIN BRIDGE
STA. 89+41.30
MP 1.506

END BRIDGE
STA. 78+06.10
MP 1.291

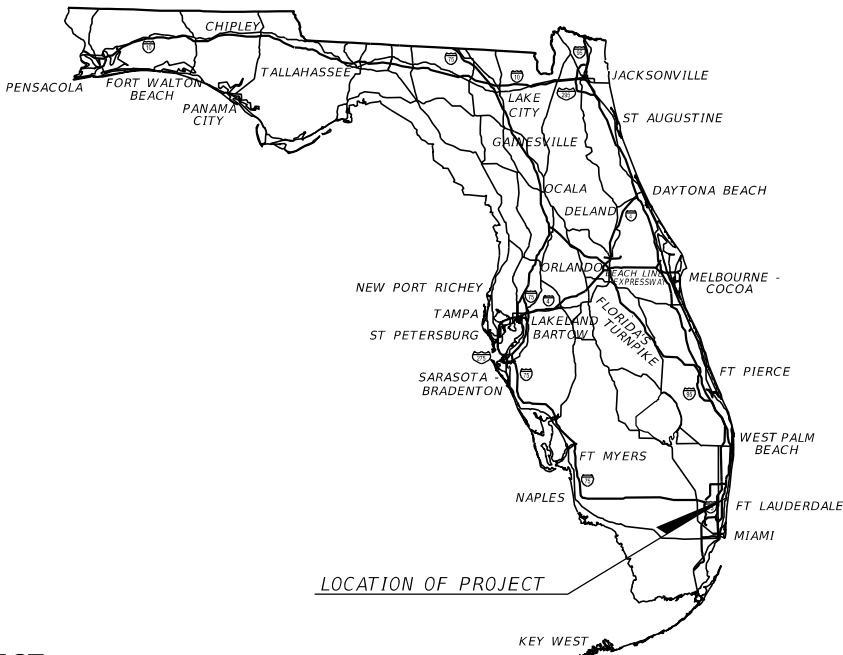
BEGIN BRIDGE
STA. 59+00.00
MP 0.930

REVISIONS:

FINANCIAL PROJECT ID 440072-1-52-01

1 Lighting Sheets L-1, L-2A, L-3, L-11, L-11A, L-16, L-18, L-19, L-20A (Revised (1-27-20))

KEY SHEET REVISIONS	
DATE	DESCRIPTION
2/6/20	1 ADDED SHEETS L-2A, L-11A & L-20A



LIGHTING PLANS

ENGINEER OF RECORD:

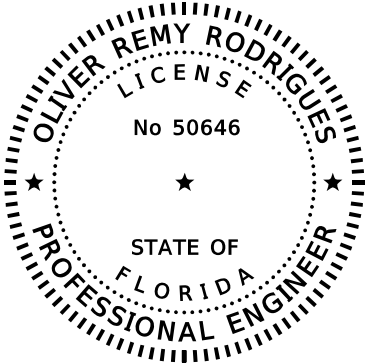
OLIVER REMY RODRIGUES, PE, PTOE
P.E. NO.: 50646
FLORIDA TRANSPORTATION ENGINEERING, INC.
8333 NW 53RD STREET, SUITE 450
DORAL, FL 33166
(800) 639-4851
CONTRACT NO. C9W37
VENDOR NO. F65-0183924
CERTIFICATE OF AUTHORIZATION NO: 00007924

FDOT PROJECT MANAGER:

ROBERT LOPES, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T4516	CAM 20-0417 19 Exhibit 1L-1	Page 14 of 53

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



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



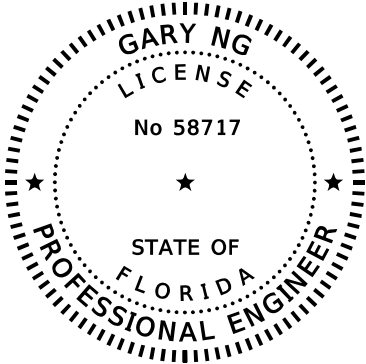
ON THE DATE ADJACENT TO THE SEAL

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

FLORIDA TRANSPORTATION ENGINEERING, INC.
8333 NW 53RD STREET, SUITE 450
DORAL, FL 33166
CERTIFICATE OF AUTHORIZATION 7924
OLIVER R. RODRIGUES, P.E. NO. 50646

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	TABULATION OF QUANTITIES
L-9	PROJECT LAYOUT
L-10	GENERAL NOTES
L-11	POLE DATA AND LEGEND
L-12 - L-19	LIGHTING PLAN
L-20 - L-21	LIGHTING DETAILS
L-23 - L-30	UTILITY ADJUSTMENTS



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



ON THE DATE ADJACENT TO THE SEAL

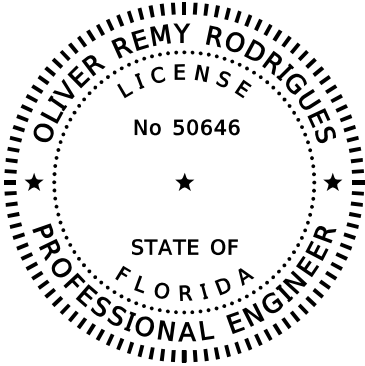
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FLORIDA TRANSPORTATION ENGINEERING, INC.
8333 NW 53RD STREET, SUITE 450
DORAL, FL 33166
CERTIFICATE OF AUTHORIZATION 7924
GARY NG, P.E. NO. 58717

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-2	SIGNATURE SHEET
L-4 - L-8	SUMMARY OF QUANTITIES
L-22	TEMPORARY TRAFFIC CONTROL PLAN

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	CAM 20-0417 Exhibit 4-2 Page 15 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			



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ON THE DATE ADJACENT TO THE SEAL

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FLORIDA TRANSPORTATION ENGINEERING, INC.
8333 NW 53RD STREET, SUITE 450
DORAL, FL 33166
CERTIFICATE OF AUTHORIZATION 7924
OLIVER R. RODRIGUES, P.E. NO. 50646

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

SHEET NO. SHEET DESCRIPTION

L-1	KEY SHEET
L-2A	SIGNATURE SHEET
L-3	TABULATION OF QUANTITIES
L-11 - L-11A	POLE DATA AND LEGEND
L-16, L-18 - L-19	LIGHTING PLAN
L-20A	LIGHTING DETAILS

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>SIGNATURE SHEET</i> CAM 20-0417 Exhibit 4-2A Page 16 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
2/6/20	1 ADDED SHEET				SR A1A	BROWARD	440072-1-52-01		

TABULATION OF QUANTITIES

A triangle with the number 1 inside.

1



A triangle with the number 1 inside it.



A triangle with the number 1 inside it.



A triangle with the number 1 inside it.

1

Ryan	2/6/2020	4:17:07 PM	S:\Projects\2017\217006-01 SR A1A Seabreeze\44007215201\lighting\TABQLT01-REV01
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SUMMARY OF LUMP SUM ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION	1			

PAY ITEM NOTES

102-1	INCLUDES COST FOR TEMPORARY BUS STOPS AS NEEDED.
110-1-1	COST OF TREE TRIMMING AND PARTIAL HEDGE REMOVAL TO BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

[illegible]

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Gary Ng, P.E., No. 58717	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES (1) CAM 20-0417 Exhibit 4-4 Page 18 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		

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SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELING DEVICES						
CONST. PHASE	LOCATION STA. TO STA.	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			0102 74 7			
			LF			
			P	F		
1	16+98.54	LT.	6.0		SIDEWALK CLOSURE	
1	17+28.54	LT.	6.0		SIDEWALK CLOSURE	
1	18+41.12 TO 18+62.75	RT.	27.0		SIDEWALK CLOSURE	
1	19+71.33	LT.	6.0		SIDEWALK CLOSURE	
1	20+01.33	LT.	6.0		SIDEWALK CLOSURE	
1	20+81.46	RT.	6.0		SIDEWALK CLOSURE	
1	21+11.70	RT.	6.0		SIDEWALK CLOSURE	
1	22+11.13	LT.	6.0		SIDEWALK CLOSURE	
1	22+40.88	LT.	6.0		SIDEWALK CLOSURE	
1	22+78.62 TO 22+92.99	RT.	22.4		SIDEWALK CLOSURE	
1	24+87.90	LT.	6.0		SIDEWALK CLOSURE	
1	25+18.16	LT.	6.0		SIDEWALK CLOSURE	
1	27+29.91	LT.	6.0		SIDEWALK CLOSURE	
1	27+59.91	LT.	6.0		SIDEWALK CLOSURE	
1	28+58.73	RT.	6.0		SIDEWALK CLOSURE	
1	28+88.73	RT.	6.0		SIDEWALK CLOSURE	
1	28+93.61	LT.	5.0		SIDEWALK CLOSURE	
1	29+20.89	LT.	5.0		SIDEWALK CLOSURE	
1	30+26.51	LT.	6.0		SIDEWALK CLOSURE	
1	30+80.00	LT.	5.0		SIDEWALK CLOSURE	
1	31+14.68	RT.	6.0		SIDEWALK CLOSURE	
1	31+44.68	RT.	6.0		SIDEWALK CLOSURE	
1	48+05.29	LT.	6.0		SIDEWALK CLOSURE	
1	48+35.29	LT.	6.0		SIDEWALK CLOSURE	
1	49+00.00	LT.	6.0		SIDEWALK CLOSURE	
1	49+10.88	RT.	6.0		SIDEWALK CLOSURE	
1	49+30.88	RT.	6.0		SIDEWALK CLOSURE	
1	49+46.01	LT.	6.0		SIDEWALK CLOSURE	
1	50+60.66 TO 50+69.48	RT.	8.8		SIDEWALK CLOSURE	
1	50+61.16 TO 50+69.97	RT.	8.8		SIDEWALK CLOSURE	
1	51+30.97	LT.	8.0		SIDEWALK CLOSURE	
1	51+60.00	LT.	7.0		SIDEWALK CLOSURE	
1	94+16.07	RT.	4.7		SIDEWALK CLOSURE	
1	94+30.81	RT.	4.7		SIDEWALK CLOSURE	
1	94+48.99	LT.	3.9		SIDEWALK CLOSURE	
1	94+65.12	LT.	3.7		SIDEWALK CLOSURE	
1	95+00.57	RT.	4.9		SIDEWALK CLOSURE	
1	95+08.94	RT.	5.0		SIDEWALK CLOSURE	
1	95+29.61 TO 95+34.96	RT.	13.0		SIDEWALK CLOSURE	
1	95+51.62	LT.	4.8		SIDEWALK CLOSURE	
1	95+67.65	LT.	4.5		SIDEWALK CLOSURE	
1	96+30.52	LT.	4.4		SIDEWALK CLOSURE	
1	96+35.68 TO 96+39.33	RT.	4.0		SIDEWALK CLOSURE	
1	96+38.34 TO 96+41.78	RT.	4.0		SIDEWALK CLOSURE	
1	96+40.57	LT.	4.7		SIDEWALK CLOSURE	
1	96+77.14	RT.	4.5		SIDEWALK CLOSURE	
1	96+92.19	RT.	4.7		SIDEWALK CLOSURE	
1	97+86.16	LT.	4.6		SIDEWALK CLOSURE	
SUB-TOTAL:			315.1			
TOTAL:			460			

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELING DEVICES						
CONST . PHASE	LOCATION STA. TO STA.	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			0102 74 7			
			LF			
			P	F		
1	97+99.66	LT .	4.5		SIDEWALK CLOSURE	
1	107+76.55	LT .	4.8		SIDEWALK CLOSURE	
1	107+79.27	RT .	4.0		SIDEWALK CLOSURE	
1	107+89.69	LT .	4.9		SIDEWALK CLOSURE	
1	107+92.41	RT .	4.0		SIDEWALK CLOSURE	
1	109+16.42	LT .	5.2		SIDEWALK CLOSURE	
1	109+29.56	LT .	4.7		SIDEWALK CLOSURE	
1	109+35.09	RT .	4.0		SIDEWALK CLOSURE	
1	109+48.22	RT .	4.2		SIDEWALK CLOSURE	
1	122+94.10	RT .	4.5		SIDEWALK CLOSURE	
1	123+07.25	RT .	4.4		SIDEWALK CLOSURE	
1	123+60.13	LT .	5.5		SIDEWALK CLOSURE	
1	124+16.91	LT .	4.9		SIDEWALK CLOSURE	
1	124+30.63 TO 124+36.58	RT .	17.3		SIDEWALK CLOSURE	
1	124+68.68	RT .	5.1		SIDEWALK CLOSURE	
1	130+61.66	LT .	7.9		SIDEWALK CLOSURE	
1	130+81.46 TO 130+84.99	LT .	7.8		SIDEWALK CLOSURE	
1	132+18.00 TO 132+21.72	LT .	7.3		SIDEWALK CLOSURE	
1	132+40.30	LT .	10.7		SIDEWALK CLOSURE	
1	132+57.64 TO 132+59.87	LT .	9.9		SIDEWALK CLOSURE	
1	133+19.62	LT .	8.9		SIDEWALK CLOSURE	
1	133+29.52 TO 133+33.37	LT .	10.7		SIDEWALK CLOSURE	
SUB - TOTAL :			145.2			

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES						
LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 10 3			
			LF			
			P	F		
18+55.24 TO 18+56.26	LT.		18.6			
22+78.55 TO 22+90.77	RT.		16.9			
28+95.09 TO 29+10.14	LT.		15.0			
30+23.91 TO 30+54.12	LT.		31.8			
49+13.78 TO 49+31.38	LT.		17.6			
51+32.54 TO 51+62.31	LT.		39.6			
95+13.70 TO 95+34.15	RT.		30.4			
96+38.05 TO 96+40.42	RT.		18.4			
124+33.37 TO 124+61.84	LT.		28.5			
130+87.61 TO 130+99.00	LT.		49.5			
132+00.68 TO 132+19.12	RT.		19.0			
132+37.73 TO 132+61.54	LT.		22.4			
133+07.39 TO 133+30.27	LT.		24.8			
SUB-TOTAL :			332.5			
TOTAL :			333			

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Gary Ng, P.E., No. 58717	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES (2) CAM 20-0417 Exhibit 4-5 Page 19 of 53		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			

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SUMMARY OF LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	CONSTRUCTION REMARKS
					0107 1					0107 2						
	AREA ID				CYCLES	AREA		AREA ID	CYCLES	AREA						
						AC/ CYCLE	TOTAL (AC)			AC/ CYCLE	TOTAL (AC)					
	STA. TO STA.						P	F				P	F			
1	17+00.00 TO 17+87.48	RT.	285	30	6644	10	0.014	0.140								
1	17+00.00 TO 18+07.08	LT.	285	30	6648	10	0.032	0.320								
1	17+13.67 TO 18+39.70	LT./RT.	285	30	6642	10	0.043	0.430								
1	18+17.04 TO 18+34.84	LT.	285	30	6651	10	0.012	0.120								
1	18+37.96 TO 23+08.06	RT.	285	30	6655	10	0.070	0.700								
1	18+40.86 TO 23+03.79	LT.	285	30	6653	10	0.153	1.530								
1	23+37.24 TO 25+20.00	LT.	285	30	6664	10	0.040	0.400								
1	23+68.59 TO 25+20.00	RT.	285	30	6659	10	0.094	0.940								
1	27+20.00 TO 29+57.90	RT.	285	30	6668	10	0.059	0.590								
1	27+20.00 TO 29+57.57	LT.	285	30	6675	10	0.054	0.540								
1	29+99.56 TO 31+40.00	RT.	285	30	6691	10	0.046	0.460								
1	30+04.35 TO 31+40.00	LT.	285	30	6682	10	0.028	0.280								
1	47+20.00 TO 49+94.83	RT.	285	30	6700	10	0.096	0.960								
1	47+20.00 TO 49+90.62	LT.	285	30	6709	10	0.120	1.200								
1	50+59.61 TO 52+40.00	LT.	285	30	6706	10	0.104	1.040								
1	50+60.36 TO 52+45.23	RT.	285	30	6704	10	0.196	1.960								
1	94+10.00 TO 95+87.91	RT.	285	30	9298	10	0.143	1.430								
1	94+10.00 TO 94+57.67	LT.	285	30	9407	10	0.015	0.150								
1	94+10.00 TO 98+20.00	LT.	285	30	9474	10	0.060	0.600								
1	94+10.01 TO 95+26.46	LT./RT.	285	30	9334	10	0.046	0.460								
1	94+96.21 TO 95+65.08	RT.	285	30	6717	10	0.025	0.250								
1	95+81.89 TO 96+07.01	RT.	285	30	6729	10	0.010	0.100								
1	95+98.85 TO 96+27.23	RT.	285	30	6731	10	0.012	0.120								
1	96+32.24 TO 98+20.00	RT.	285	30	9532	10	0.046	0.460								
1	107+60.00 TO 108+37.26	LT.	285	30	6737	10	0.027	0.270								
1	107+60.00 TO 108+51.69	RT.	285	30	6745	10	0.025	0.250								
1	108+73.15 TO 109+60.00	LT.	285	30	6740	10	0.031	0.310								
1	108+92.16 TO 109+60.00	RT.	285	30	6749	10	0.025	0.250								
1	122+80.00 TO 123+66.05	RT.	285	30	6753	10	0.021	0.210								
1	122+88.60 TO 124+60.00	LT.	285	30	6762	10	0.084	0.840								
1	123+13.25 TO 123+48.10	LT./RT.	285	30	6760	10	0.007	0.070								
1	124+04.59 TO 124+60.00	RT.	285	30	6756	10	0.027	0.270								
1	130+60.00 TO 131+14.42	LT.	285	30	6777	10	0.045	0.450								
1	130+60.00 TO 133+40.00	RT.	285	30	9605	10	0.098	0.980								
1	131+23.19 TO 131+44.53	LT.	285	30	6781	10	0.007	0.070								
1	131+59.85 TO 133+40.00	LT.	285	30	9575	10	0.065	0.650								
1	132+01.21 TO 133+40.00	LT.	285	30	9639	10	0.021	0.210								
1	17+00.00 TO 17+87.48	RT.	285	30						7246	10	0.014	0.140			
1	17+91.80 TO 18+06.49	LT.	285	30						7237	10	0.003	0.030			
1	17+93.34 TO 18+03.46	LT.	285	30						7242	10	0.002	0.020			
1	18+44.07 TO 18+79.42	LT.	285	30						7235	10	0.014	0.140			
1	23+70.99 TO 25+20.00	RT.	285	30						7233	10	0.040	0.400			
1	23+94.08 TO 25+20.00	RT.	285	30						7227	10	0.018	0.180			
1	27+20.00 TO 27+63.71	RT.	285	30						7223	10	0.007	0.070			
1	29+21.68 TO 29+45.38	LT.	285	30						7215	10	0.004	0.040			
1	30+06.20 TO 30+35.87	RT.	285	30						7217	10	0.006	0.060			
1	30+14.14 TO 30+40.01	LT.	285	30						7213	10	0.006	0.060			
SUB-TOTAL :								20.010		SUB-TOTAL :				1.140		
TOTAL :								20.01		TOTAL :				5.91		

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Gary Ng, P.E., No. 58717	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES (3) CAM 20-0417 Exhibit 4-6 Page 20 of 53		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			

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

SUMMARY OF LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	CONSTRUCTION REMARKS
					0107 1					0107 2						
	AREA ID				CYCLES	AREA		AREA ID	CYCLES	AREA						
						AC/ CYCLE	TOTAL (AC)			AC/ CYCLE	TOTAL (AC)					
	STA. TO STA.						P	F				P	F			
1	30+91.15 TO 31+40.00	RT.	285	30						7219	10	0.002	0.020			
1	47+20.00 TO 49+59.28	LT.	285	30						7207	10	0.050	0.500			
1	48+51.93 TO 49+83.84	RT.	285	30						7205	10	0.025	0.250			
1	50+65.93 TO 52+40.00	LT.	285	30						7210	10	0.037	0.370			
1	51+22.72 TO 52+45.16	RT.	285	30						7202	10	0.063	0.630			
1	94+10.00 TO 95+33.18	RT.	285	30						9696	10	0.097	0.970			
1	94+10.00 TO 94+55.58	LT.	285	30						9749	10	0.010	0.100			
1	94+10.01 TO 95+23.73	LT. /RT.	285	30						9727	10	0.034	0.340			
1	95+44.55 TO 95+75.83	RT.	285	30						7195	10	0.003	0.030			
1	107+97.42 TO 108+20.58	LT.	285	30						7189	10	0.004	0.040			
1	108+15.03 TO 108+39.64	RT.	285	30						7187	10	0.003	0.030			
1	108+22.76 TO 108+35.46	LT.	285	30						7191	10	0.004	0.040			
1	108+84.81 TO 109+05.14	LT.	285	30						7193	10	0.006	0.060			
1	109+02.18 TO 109+32.61	RT.	285	30						7185	10	0.005	0.050			
1	122+89.10 TO 123+14.06	LT.	285	30						7183	10	0.002	0.020			
1	123+32.18 TO 124+18.33	LT.	285	30						7179	10	0.019	0.190			
1	124+21.59 TO 124+60.00	LT.	285	30						7177	10	0.013	0.130			
1	124+34.56 TO 124+60.00	RT.	285	30						7181	10	0.008	0.080			
1	130+60.00 TO 132+20.53	RT.	285	30						7170	10	0.037	0.370			
1	130+60.00 TO 131+11.28	LT.	285	30						7175	10	0.033	0.330			
1	132+27.88 TO 133+40.00	RT.	285	30						9775	10	0.022	0.220			
SUB-TOTAL :										SUB-TOTAL :			4.770			

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				AREA (AC)	P	F	P	F		
0110 1 1	CLEARING AND GRUBBING	18+43.70 TO 18+56.26	LT.	4579	LS	0.005	1				(0.02 AC)	
		30+29.45 TO 30+40.01	LT.	4566		0.001						
		95+13.70 TO 95+25.21	RT.	4586		0.002						
		124+42.63 TO 124+54.29	LT.	4587		0.002						
		131+01.22 TO 131+12.17	LT.	4588		0.004						
		132+03.88 TO 132+15.37	RT.	4935		0.002					INCLUDES TREE TRIMMING	
		132+52.64 TO 132+61.54	LT.	4591		0.001						
		133+24.33 TO 133+33.90	LT.	4590		0.001					PARTIAL HEDGE REMOVAL	
0110 4 10	REMOVAL OF EXISTING CONCRETE	22+78.62 TO 22+92.99	RT.	9809	SY		7.4		33		EXIST. SW REMOVAL	
		28+98.00 TO 29+08.00	LT.	5352			7.2				EXIST. SW REMOVAL	
		30+27.53 TO 30+51.00	LT.	5357			13.4				EXIST. SW REMOVAL	
		96+34.17 TO 96+39.50	RT.	9818			4.8				EXIST. SW REMOVAL	

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Gary Ng, P.E., No. 58717	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES (4)		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			
								CAM 20-0417 Exhibit 4-7 Page 21 of 53		

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

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS								
LOCATION	SIDE	AREA ID	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
			0522 1		0522 2			
SY			SY					
STA. TO STA.			P	F	P	F		
28+98.00 TO 29+08.00	LT.	3342	7.2					
22+78.62 TO 22+92.99	RT.	5391			7.4			
30+27.53 TO 30+51.00	LT.	3447			13.4			
96+34.17 TO 96+39.50	RT.	5400			4.8			
SUB-TOTAL :			7.2		25.6			
TOTAL :			7		26			

SUMMARY OF PERFORMANCE TURF						
LOCATION STA. TO STA.	SIDE	AREA ID	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
			0570 1 2			
			SY			
			P	F		
18+43.70 TO 18+56.26	LT.	4154	23.8			
30+29.45 TO 30+40.01	LT.	4166	2.9			
51+37.97 TO 51+48.19	LT.	4160	5.7			
95+13.70 TO 95+25.21	RT.	4161	8.0			
124+42.63 TO 124+54.29	LT.	4162	9.1			
131+01.22 TO 131+12.17	LT.	4163	17.5			
132+03.88 TO 132+15.37	RT.	4173	9.8			
132+52.64 TO 132+61.54	LT.	4165	3.0			
133+24.33 TO 133+33.90	LT.	4164	4.2			
SUB-TOTAL :			84.0			
TOTAL :			84			

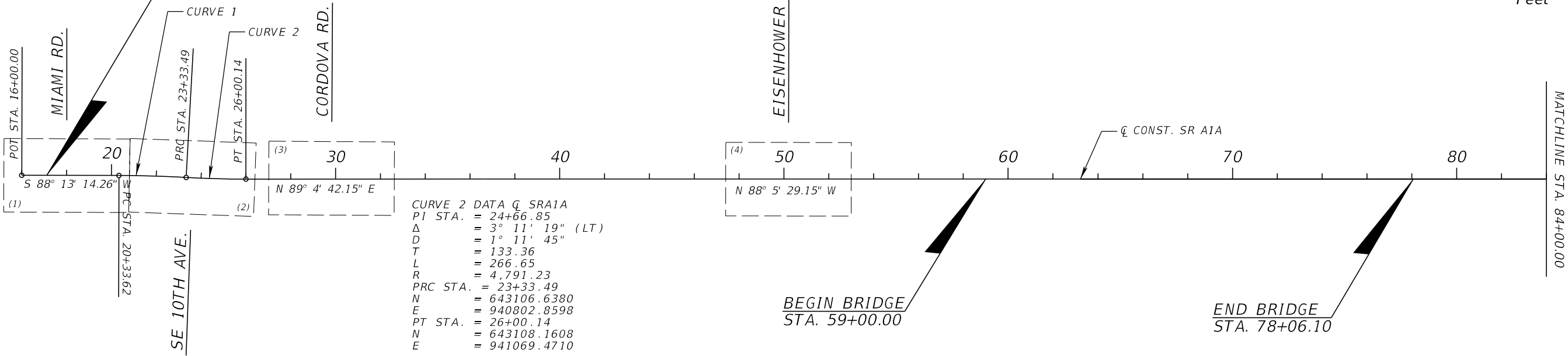
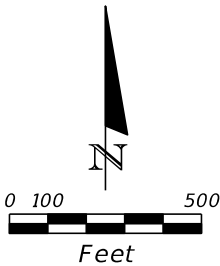
REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Gary Ng, P.E., No. 58717	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01	CAM 20-0417 Exhibit 4-8	
								Page 22 of 53	

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

CURVE 1 DATA Q CONST. SR A1A
PI STA. = 21+83.59
Δ = 3° 02' 47" (RT)
D = 1° 00' 57"
T = 149.97
L = 299.87
R = 5,639.73
PC STA. = 20+33.62
N = 643105.2976
E = 940503.0281
PT STA. = 23+33.49
N = 643106.6380
E = 940802.8598

BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 17+13.54

SR A1A / SE 17TH ST.



CURVE 2 DATA Q SRA1A
PI STA. = 24+66.85
Δ = 3° 11' 19" (LT)
D = 1° 11' 45"
T = 133.36
L = 266.65
R = 4,791.23
PRC STA. = 23+33.49
N = 643106.6380
E = 940802.8598
PT STA. = 26+00.14
N = 643108.1608
E = 941069.4710

BEGIN BRIDGE
STA. 59+00.00

END BRIDGE
STA. 78+06.10

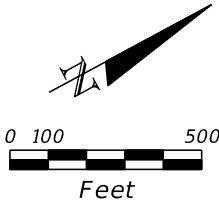
CURVE 3 DATA Q CONST. SR A1A
PI STA. = 93+72.77
Δ = 41° 17' 17" (LT)
D = 4° 45' 55"
T = 452.99
L = 866.43
R = 1,202.35
PC STA. = 89+19.78
N = 643318.9151
E = 947386.7372
PT STA. = 97+86.21
N = 643644.0752
E = 948169.7081

CURVE 4 DATA Q CONST. SR A1A
PI STA. = 102+88.11
Δ = 42° 39' 05" (LT)
D = 4° 28' 27"
T = 499.94
L = 953.27
R = 1,280.58
PC STA. = 97+88.17
N = 643645.4169
E = 948171.1369
PT STA. = 107+41.44
N = 644486.2516
E = 948571.7924

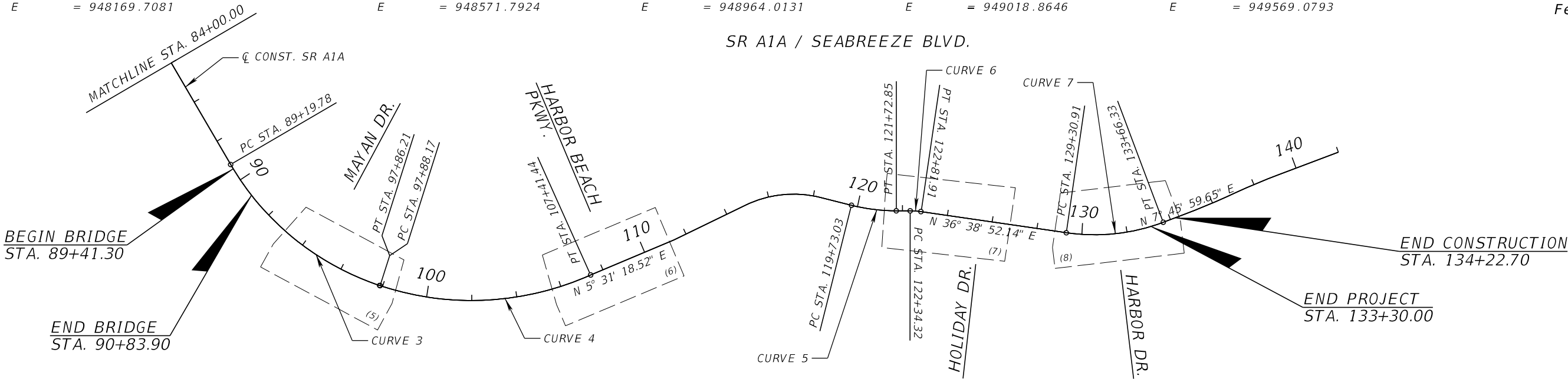
CURVE 5 DATA Q CONST. SR A1A
PI STA. = 120+73.44
Δ = 13° 58' 55" (LT)
D = 6° 59' 50"
T = 100.41
L = 199.82
R = 818.83
PC STA. = 119+73.03
N = 645646.3917
E = 948848.4697
PT STA. = 121+72.85
N = 645808.8109
E = 948964.0131

CURVE 6 DATA Q CONST. SR A1A
PI STA. = 122+58.16
Δ = 8° 12' 40" (RT)
D = 17° 15' 08"
T = 23.84
L = 47.59
R = 332.11
PC STA. = 122+34.32
N = 645862.8642
E = 948993.2843
PT STA. = 122+81.91
N = 645902.9519
E = 949018.8646

CURVE 7 DATA Q CONST. SR A1A
PI STA. = 131+53.35
Δ = 28° 52' 52" (LT)
D = 6° 37' 59"
T = 222.44
L = 435.42
R = 863.80
PC STA. = 129+30.91
N = 646423.6535
E = 949406.2464
PT STA. = 133+66.33
N = 646822.5202
E = 949569.0793



SR A1A / SEABREEZE BLVD.



REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT	CAM 20-0417 Exhibit 4-9 Page 23 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			

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

GENERAL NOTES:

1. RIGHT OF WAY LINES SHOWN IN THE PLANS ARE APPROXIMATE. REFER TO:

INTERSECTING STREET NAME	REFERENCE
MIAMI RD.	MAINT. MAP SECTION NO. 86180-MAINT. (1) - 2005 FINAL "AS-BUILT" PLANS FPID 409136-1-52-01 - 2006
SE 10TH AVE. CORDOVA RD.	R/W MAP SECTION NO. 86180-2177 (1) - 1951, REVISED 2013 FINAL "AS-BUILT" PLANS FPID 409136-1-52-01 - 2006
EISENHOWER BLVD.	R/W MAP SECTION NO. 86180-2522 - 1995, REVISED 2003 R/W MAP SECTION NO. 86180-2519 - 1988, REVISED 2002
MAYAN DR.	MAINT. MAP SECTION NO. 86180-MAINT. (3) - 2015
HARBOR BEACH PKWY.	
HOLIDAY DR.	
HARBOR DR.	

2. CENTER LINE OF CONSTRUCTION SHOWN FOR INFORMATION ONLY. CENTERLINE WAS NOT SURVEYED.

3. LIGHTING MAINTAINING AGENCIES:
CITY OF FORT LAUDERDALE MP. 0.137 TO MP 2.344

4. IF DAMAGE OCCURS OR THE INDUCTIVE LOOPS AND/OR PIEZOS ARE CUT, PLEASE CONTACT KARA SCHWARTZ AT 954-777-4364 AND VIA EMAIL AT KARA.SCHWARTZ@DOT.STATE.FL.US.

5. WITHIN THE CITY OF FORT LAUDERDALE, DELIVER SALVAGEABLE LED LIGHTING LUMINAIRES AND DECORATIVE LUMINAIRES TO:
CITY OF FORT LAUDERDALE
PARKS & RECREATION DEPT.
220 SW 14TH AVENUE
FORT LAUDERDALE, FL 33312
CONTACT: DAVID HAVELL (954) 828-5760

6. NO BEACH ILLUMINATION WILL BE PERMITTED DURING SEA TURTLE NESTING SEASON (MARCH 1 THROUGH OCTOBER 31). SHOULD NIGHT CONSTRUCTION BE NECESSARY DURING THOSE MONTHS, PLEASE CONTACT THE DISTRICT CONSTRUCTION ENVIRONMENTAL COORDINATOR (DCEC) AT 954-777-4339 TO ENSURE THAT TEMPORARY LIGHTING WILL NOT IMPACT SEA TURTLE NESTING.

7. SEE UTILITY ADJUSTMENT SHEETS FOR AGENCY AND UTILITY OWNERS, AND THEIR CONTACT INFORMATION, AS WELL AS CONTACT INFORMATION FOR OTHER REQUIRED ACTIONS.

8. REPORT OF CORE BORINGS WERE REVIEWED FROM PREVIOUS PROJECTS ALONG SR A1A. THE EXISTING SOIL PARAMETERS WERE DETERMINED TO BE SUITABLE FOR STANDARD FOUNDATIONS FOR LIGHT POLES. FOR THE REPORT OF CORE BORINGS, REFER TO: FPID 409136-1-52-01, FPID 411128-1-52-01, AND PROJECT NO. 86180-3509.

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		
								CAM 20-0417 Exhibit 4-10 Page 24 of 53	

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

POLE DATA

POLE NO.	CIRCUIT	INTERSECTION	STATION	OFFSET	DESIGN LUMINAIRE	ARM	PROP WATTAGE	EXIST. WATTAGE	VOLTAGE	MOUNTING HEIGHT	FOUNDATION TYPE	PAY ITEM	
1A	EXIST.	MIAMI ROAD	17+13.54	48.4' LT.	ERL2_19C340 .ies	10'	149 W	400 W	480V	50'	---	715-11-211	
2A	-	MIAMI ROAD	17+85.78	65.6' RT.	VERD-M-A03-E-U-T3-AP .ies	12'	182 W	---	120V	35'	---	**	
3A	A-1	MIAMI ROAD	18+52.00	90.0' LT.	ERL2_19C340 .ies	15'	149 W	---	120V	45'	STANDARD	715-4-14	
4A	EXIST.	MIAMI ROAD	18+51.22	47.9' RT.	ERL2_19C340 .ies	10'	149 W	400 W	480V	50'	---	715-11-211	
5A	EXIST.	MIAMI ROAD	19+86.33	48.1' LT.	ERL2_19C340 .ies	10'	149 W	400 W	480V	50'	---	715-11-211	
1B	EXIST.	SE 10TH AVENUE	20+96.65	49.2' RT.	ERL2_19C340 .ies	10'	149 W	400 W	480V	50'	---	715-11-211	
2B	EXIST.	SE 10TH AVENUE	22+26.01	48.1' LT.	ERL2_19C340 .ies	10'	149 W	400 W	480V	50'	---	715-11-211	
3B	EXIST.	SE 10TH AVENUE	22+87.00	56.0' RT.	ERL2_19C340 .ies	10'	149 W	---	480V	45'	STANDARD	715-4-14	
4B	-	SE 10TH AVENUE	23+02.31	74.4' RT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	8'	133 W	---	120V	25'	---	**	
5B	-	SE 10TH AVENUE	23+34.25	134.1' LT.	VERD-M-A03-E-U-T3-AP .ies	8'	182 W	---	120V	35'	---	**	
6B	EXIST.	SE 10TH AVENUE	23+74.15	76.2' RT.	MGLED_7_4_5K_AX_F_L_X_X_US .ies	0'	296 W	UNKNOWN	480V	50'	---	715-11-211	
7B	EXIST.	SE 10TH AVENUE	24+00.48	54.5' RT.	ERL2_19C340 .ies	10'	149 W	400 W	480V	50'	---	715-11-211	
9B	EXIST.	SE 10TH AVENUE	25+03.07	48.1' LT.	ERL2_19C340 .ies	10'	149 W	400 W	480V	50'	---	715-11-211	
1C	EXIST.	CORDOVA ROAD	27+44.90	48.3' LT.	ERL2_23C340 .ies	10'	193 W	400 W	480V	50'	---	715-11-211	
2C	EXIST.	CORDOVA ROAD	28+73.89	63.5' RT.	ERL2_23C340 .ies	10'	194 W	400 W	480V	50'	---	715-11-211	
3C	EXIST.	CORDOVA ROAD	29+03.00	48.0' LT.	ERL2_23C340 .ies	10'	194 W	---	480V	45'	STANDARD	715-4-14	
4C	-	CORDOVA ROAD	29+46.83	119.8' LT.	VERD-M-A03-E-U-T3-AP .ies	8'	182 W	---	120V	30'	---	**	
5C	-	CORDOVA ROAD	29+49.97	130.5' RT.	VERD-M-A03-E-U-T3-AP .ies	8'	182 W	---	480V	30'	---	**	
6C	EXIST.	CORDOVA ROAD	30+49.00	48.0' LT.	ERL2_23C340 .ies	10'	194 W	---	480V	45'	STANDARD	715-4-14	
7C	EXIST.	CORDOVA ROAD	31+29.55	50.5' RT.	ERL2_23C340 .ies	10'	195 W	400 W	480V	50'	---	715-11-211	
1D	EXIST.	EISENHOWER BLVD	48+20.30	67.7' LT.	ERL2_30C340 .ies	10'	278 W	400 W	480V	50'	---	715-11-211	
2D	EXIST.	EISENHOWER BLVD	49+12.44	64.5' RT.	ERL2_30C340 .ies	10'	278 W	400 W	480V	50'	---	715-11-211	
3D	EXIST.	EISENHOWER BLVD	49+23.00	59.0' LT.	ERL2_30C340 .ies	10'	278 W	---	480V	45'	STANDARD	715-4-14	
5D	-	EISENHOWER BLVD	49+83.25	92.5' RT.	ATB2_80BLEDE10_XXXX_R4_4K_5K .ies	8'	268 W	---	120V	35'	---	**	
6D	EXIST.	EISENHOWER BLVD	50+68.46	169.8' RT.	ERL2_30C340 .ies	10'	278 W	400 W	480V	50'	---	715-11-211	
7D	EXIST.	EISENHOWER BLVD	51+41.00	64.0' LT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	10'	133 W	---	480V	25'	STANDARD	715-511-125	
1E	EXIST.	MAYAN DRIVE	94+24.37	65.2' RT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
2E	EXIST.	MAYAN DRIVE	94+57.33	61.2' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
3E	EXIST.	MAYAN DRIVE	95+05.67	69.8' RT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
4E	EXIST.	MAYAN DRIVE	95+23.00	78.0' RT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	10'	120 W	---	277V	25'	STANDARD	715-511-125	
4E	EXIST.	MAYAN DRIVE	95+23.00	78.0' RT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	10'	120 W	---	277V	25.3'	SPECIAL	715-511-325	
5E	EXIST.	MAYAN DRIVE	95+60.10	46.1' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
7E	EXIST.	MAYAN DRIVE	96+34.58	39.4' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
8E	EXIST.	MAYAN DRIVE	96+37.50	73.5' RT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	10'	120 W	---	277V	25'	STANDARD	715-511-125	
8E	EXIST.	MAYAN DRIVE	96+37.50	73.5' RT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	10'	120 W	---	277V	25.3'	SPECIAL	715-511-325	
9E	EXIST.	MAYAN DRIVE	96+84.45	38.2' RT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
10E	EXIST.	MAYAN DRIVE	97+92.28	33.8' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
1F	EXIST.	HARBOR BEACH PKWY.	107+83.47	33.7' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
2F	EXIST.	HARBOR BEACH PKWY.	107+86.27	33.7' RT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
3F	-	HARBOR BEACH PKWY.	108+25.86	56.5' LT.	VERD-M-A03-E-U-T3-AP .ies	8'	182 W	---	277V	30'	---	**	
4F	EXIST.	HARBOR BEACH PKWY.	109+23.33	33.7' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
5F	EXIST.	HARBOR BEACH PKWY.	109+42.08	33.8' RT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
1G	EXIST.	HOLIDAY DRIVE	123+00.07	37.8' RT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
2G	-	HOLIDAY DRIVE	123+12.99	40.4' RT.	VERD-M-A03-E-U-T3-AP .ies	8'	182 W	---	277V	30'	---	**	
3G	-	HOLIDAY DRIVE	123+62.07	115.4' RT.	VERD-M-A03-E-U-T3-AP .ies	8'	182 W	---	277V	30'	---	**	
4G	-	HOLIDAY DRIVE	123+62.13	66.5' RT.	VERD-M-A03-E-U-T3-AP .ies	8'	182 W	---	277V	30'	---	**	
5G	EXIST.	HOLIDAY DRIVE	123+64.49	35.4' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
6G	EXIST.	HOLIDAY DRIVE	124+39.23	36.1' RT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213
7G	EXIST.	HOLIDAY DRIVE	124+46.00	33.5' LT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	10'	120 W	---	277V	25'	STANDARD	715-511-125	
7G	EXIST.	HOLIDAY DRIVE	124+46.00	33.5' LT.	ATB2_40BLEDE10_XXXX_R4_4K_5K .ies	10'	120 W	---	277V	25.3'	SPECIAL	715-511-325	
8G	EXIST.	HOLIDAY DRIVE	124+73.90	36.7' LT.	AWDE2_P20_40K_AH_3_F .ies	2'	2' 49 W 49 W	UNKNOWN	277V	14'	---	715-11-213	715-11-213

** FPL TO INSTALL LED FIXTURE ONTO EXIST. POLE

INTERSECTION LIGHTING
RETROFIT DESIGN CRITERIA

AVERAGE INITIAL INTENSITY (H.F.C) 1.5 (H.F.C)
UNIFORMITY RATIO-AVG./MIN. 4:1 OR LESS
MAX./MIN. 10:1 OR LESS

AVERAGE INITIAL INTENSITY 1.5 (V.F.C) (TARGET)
IN CROSSWALK FOR
APPROACH MOVEMENT (V.F.C)

DESIGN WIND SPEED = 160 MPH

LEGEND

SYMBOLS

DESCRIPTION



PROPOSED CONV. POLE WITH LED LUMINAIRE



RETROFIT LED LUMINAIRE ONTO EXIST. CONV. POLE



LIGHTING BY OTHERS (FPL)



EXIST. HPS FIXTURE AND POLE TO REMAIN



EXIST. CONV. POLE TO BE REMOVED



EXIST. HPS FIXTURE AND DECORATIVE POLE TO REMAIN



RETROFIT LED ONTO EXIST. DECORATIVE POLE



PROPOSED DECORATIVE POLE WITH LED LUMINAIRE



EXISTING PULL BOX TO BE REPLACED



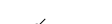
PROPOSED PULL BOX



EXIST. LOAD CENTER



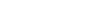
PROPOSED LOAD CENTER



EXIST. CONDUIT & CONDUCTORS



REMOVE EXIST. CONDUCTORS & RUN NEW CONDUCTORS
WITHIN EXIST. CONDUIT



PROPOSED OPEN TRENCH CONDUIT & CONDUCTORS

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POLE DATA & LEGEND	CAM 20-0417 Exhibit 4-11 Page 25 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
2/6/20	1 UPDATED POLES 4E, 8E & 7G TO CONCRETE WITH 10' ARM.				SR A1A	BROWARD	440072-1-52-01			

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

POLE DATA																
POLE NO.	CIRCUIT	INTERSECTION	STATION	OFFSET	DESIGN LUMINAIRE	ARM	PROP WATTAGE		EXIST. WATTAGE		VOLTAGE	MOUNTING HEIGHT	FOUNDATION TYPE	PAY ITEM		
1H	EXIST.	HARBOR DRIVE	130+71.38	48.9' LT.	T29782 .ies	2'	2'	100 W	100 W	100 W	100 W	277V	16'	---	715-11-216	715-11-216
2H	B-1	HARBOR DRIVE	131+07.00	84.0' LT.	STL240-T3L2-CREE AMBER .ies	8'	240 W		---		120V	35'	STANDARD	715-4-12-22		
3H	EXIST.	HARBOR DRIVE	131+51.95	22.5' RT.	T29782 .ies	2'	2'	100 W	100 W	100 W	100 W	277V	16'	---	715-11-216	715-11-216
4H	EXIST.	HARBOR DRIVE	132+10.00	22.5' RT.	T29782 .ies	2'	2'	100 W	100 W	100 W	100 W	277V	16'	STANDARD	715-512-315	
5H	EXIST.	HARBOR DRIVE	132+25.60	48.5' LT.	T29782 .ies	2'	2'	100 W	100 W	100 W	100 W	277V	16'	---	715-11-216	715-11-216
6H	EXIST.	HARBOR DRIVE	132+57.00	48.5' LT.	STL120-T3L2-CREE AMBER .ies	2'	2'	120 W				277V	22'	STANDARD	715-511-125	
6H	EXIST.	HARBOR DRIVE	132+57.00	48.5' LT.	STL120-T3L2-CREE AMBER .ies	8'	120 W		---		277V	21.5'	SPECIAL	715-511-325		
7H	EXIST.	HARBOR DRIVE	132+91.85	24.3' RT.	T29782 .ies	2'	2'	100 W	100 W	100 W	100 W	277V	16'	---	715-11-216	715-11-216
8H	EXIST.	HARBOR DRIVE	133+30.00	36.0' LT.	STL120-T3L2-CREE AMBER .ies	2'	2'	120 W				277V	22'	STANDARD	715-511-125	
8H	EXIST.	HARBOR DRIVE	133+30.00	36.0' LT.	STL120-T3L2-CREE AMBER .ies	8'	120 W		---		277V	21.5'	SPECIAL	715-511-325		

A triangle with the number 1 inside.

DESIGN WIND SPEED = 160 MPH

SYMBOLS

C) 3

С *С

$$\text{C} \equiv \text{C}$$


□

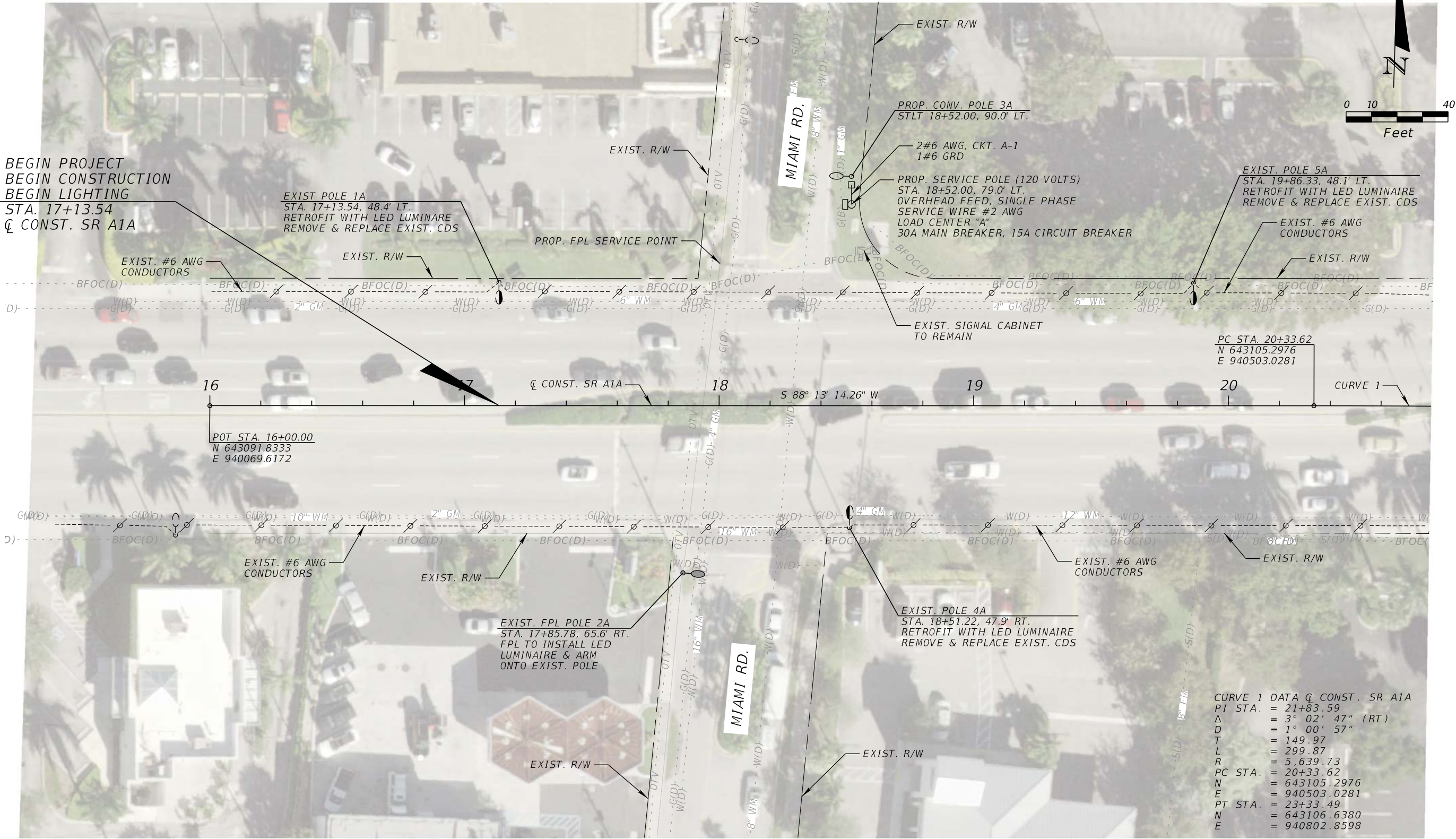
97



=====

PROPOSED OPEN TRENCH CONDUIT & CONDUCTORS

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POLE DATA & LEGEND	CAM 20-0417 Exhibit 11A Page 26 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
2/6/20	1 ADDED SHEET. UPDATED POLES 6H & 8H TO CONCRETE WITH 8' ARM. UPDATED POLE 2H TO POWDER COAT BLACK.				SR A1A	BROWARD	440072-1-52-01			

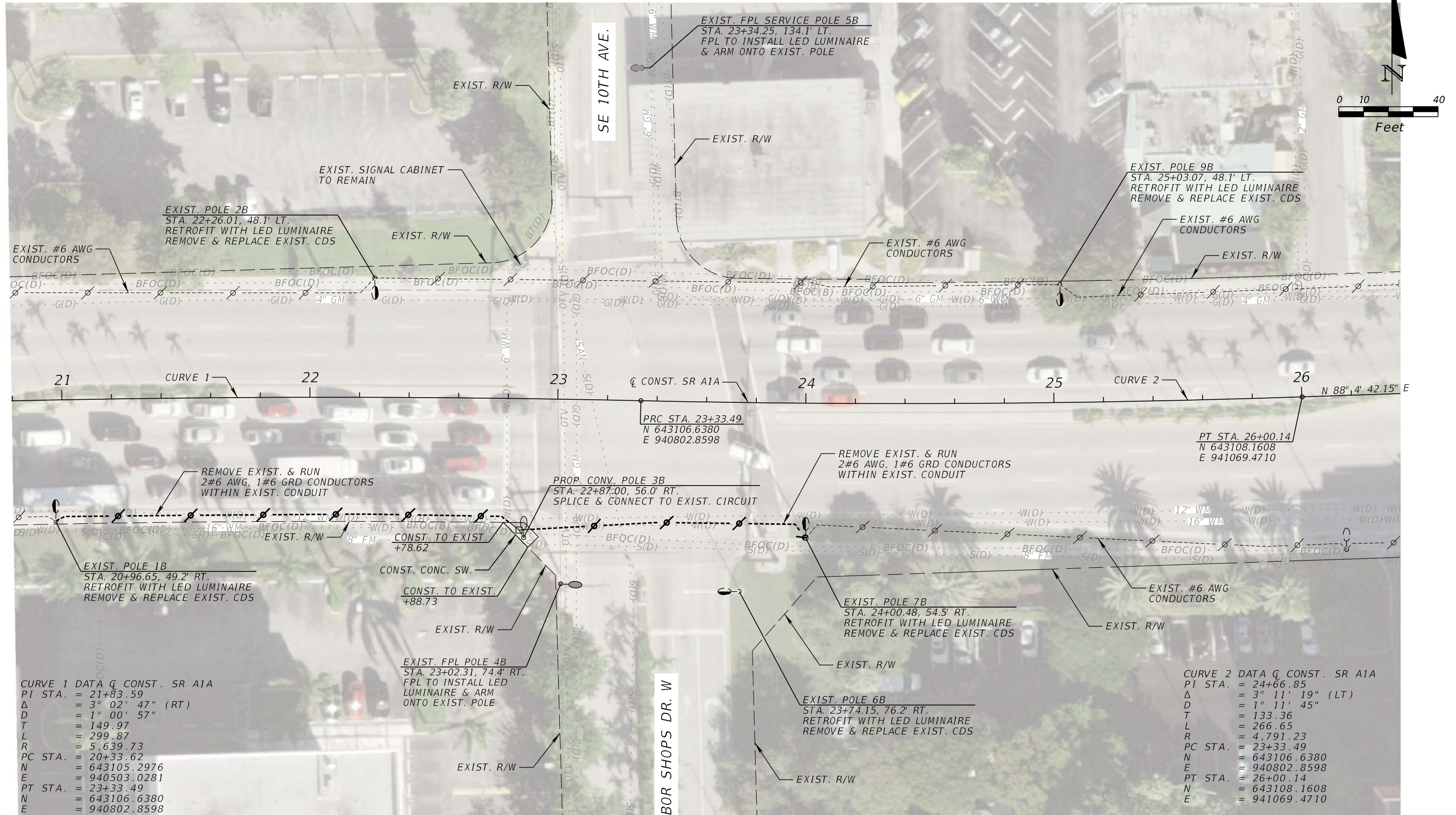


EXIST. LOAD CENTER
LOCATED AT 1887 MARRIOTT DR, MEDIAN

CURVE 1 DATA Q CONST. SR A1A
PI STA. = 21+83.59
Δ = 3° 02' 47" (RT)
D = 1° 00' 57"
T = 149.97
L = 299.87
R = 5,639.73
PC STA. = 20+33.62
N = 643105.2976
E = 940503.0281
PT STA. = 23+33.49
N = 643106.6380
E = 940802.8598

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (1) CAM 20-0417 Exhibit 4-12 Page 27 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		

SR A1A / SE 17TH ST.

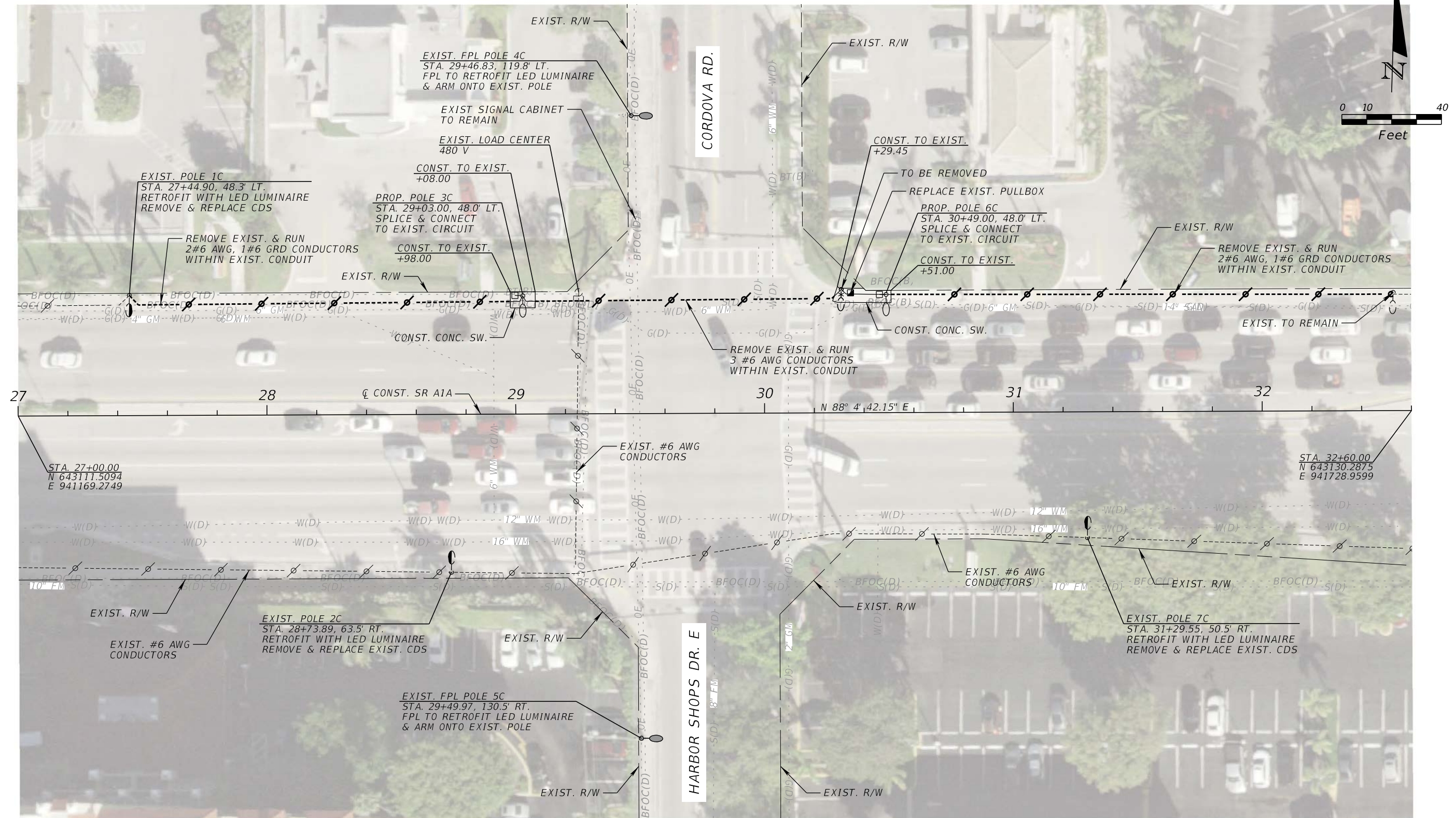


EXIST. LOAD CENTER
LOCATED AT 1887 MARRIOTT DR, MEDIAN

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (2)	CAM 20-0417 Exhibit 4-13 Page 28 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			

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

SR A1A / SE 17TH ST.

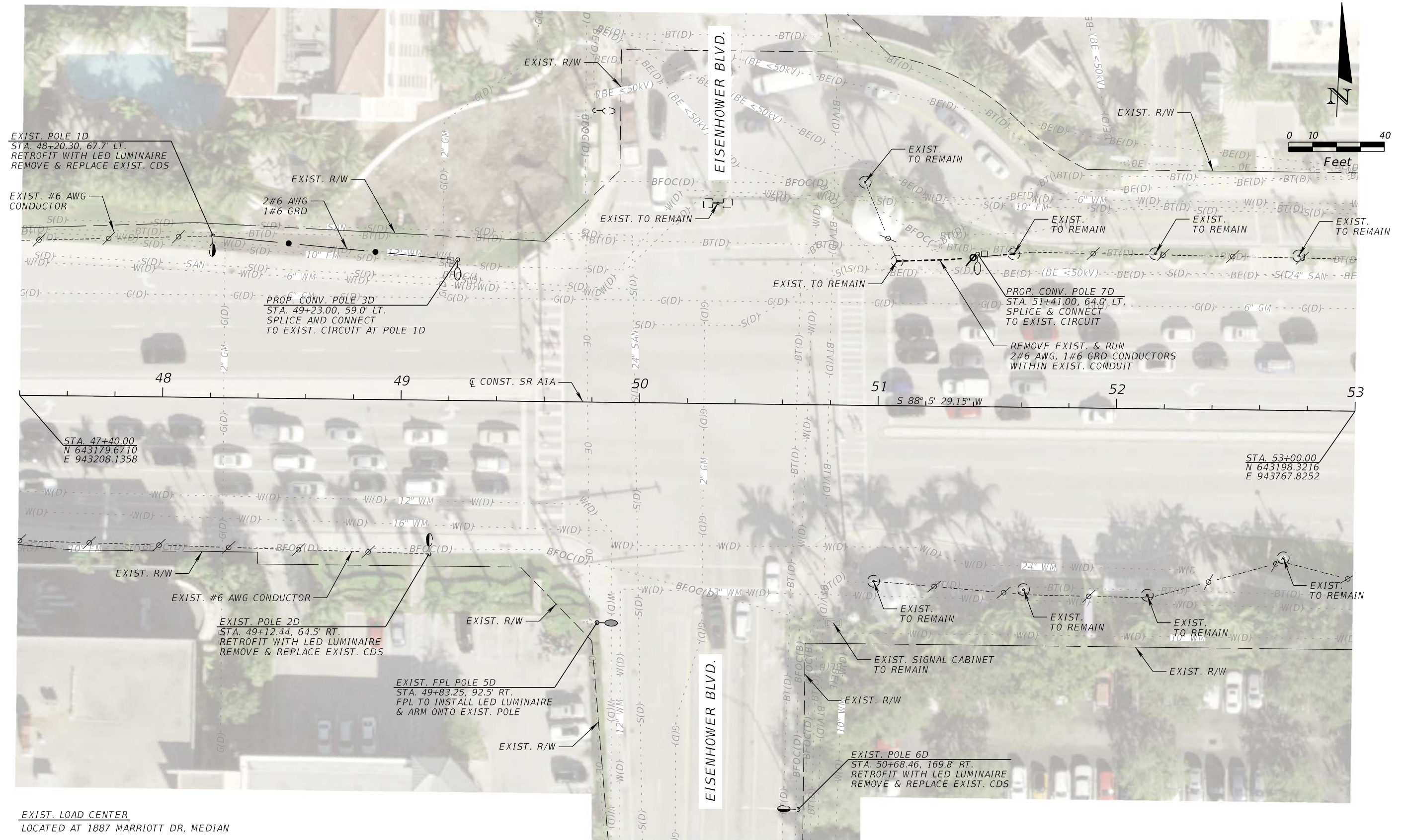


EXIST. LOAD CENTER
LOCATED AT 1887 MARRIOTT DR, MEDIAN

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (3)	CAM 20-0417 Exhibit 4-14 Page 29 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			

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

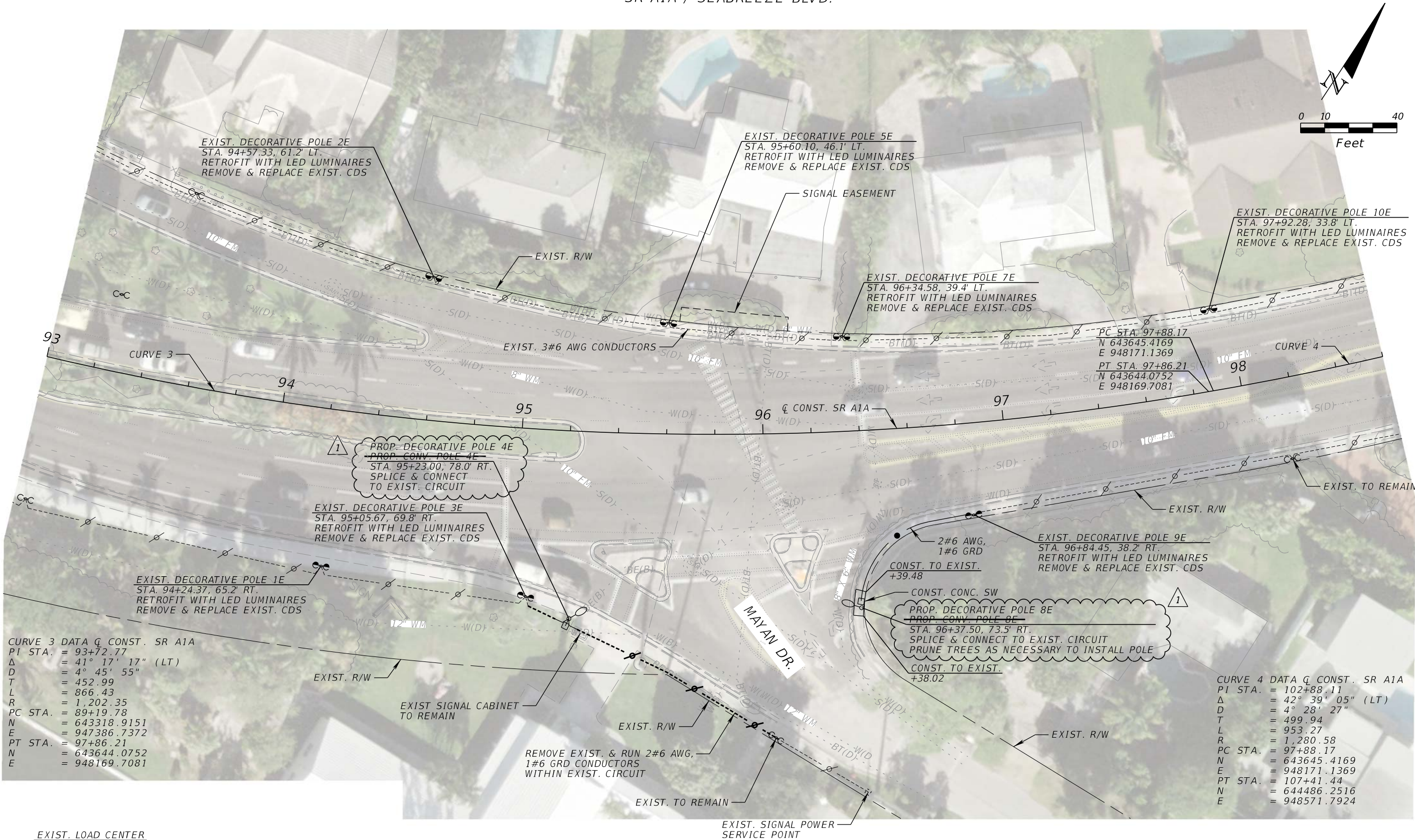
SR A1A / SE 17TH ST.



EXIST. LOAD CENTER
LOCATED AT 1887 MARRIOTT DR, MEDIAN

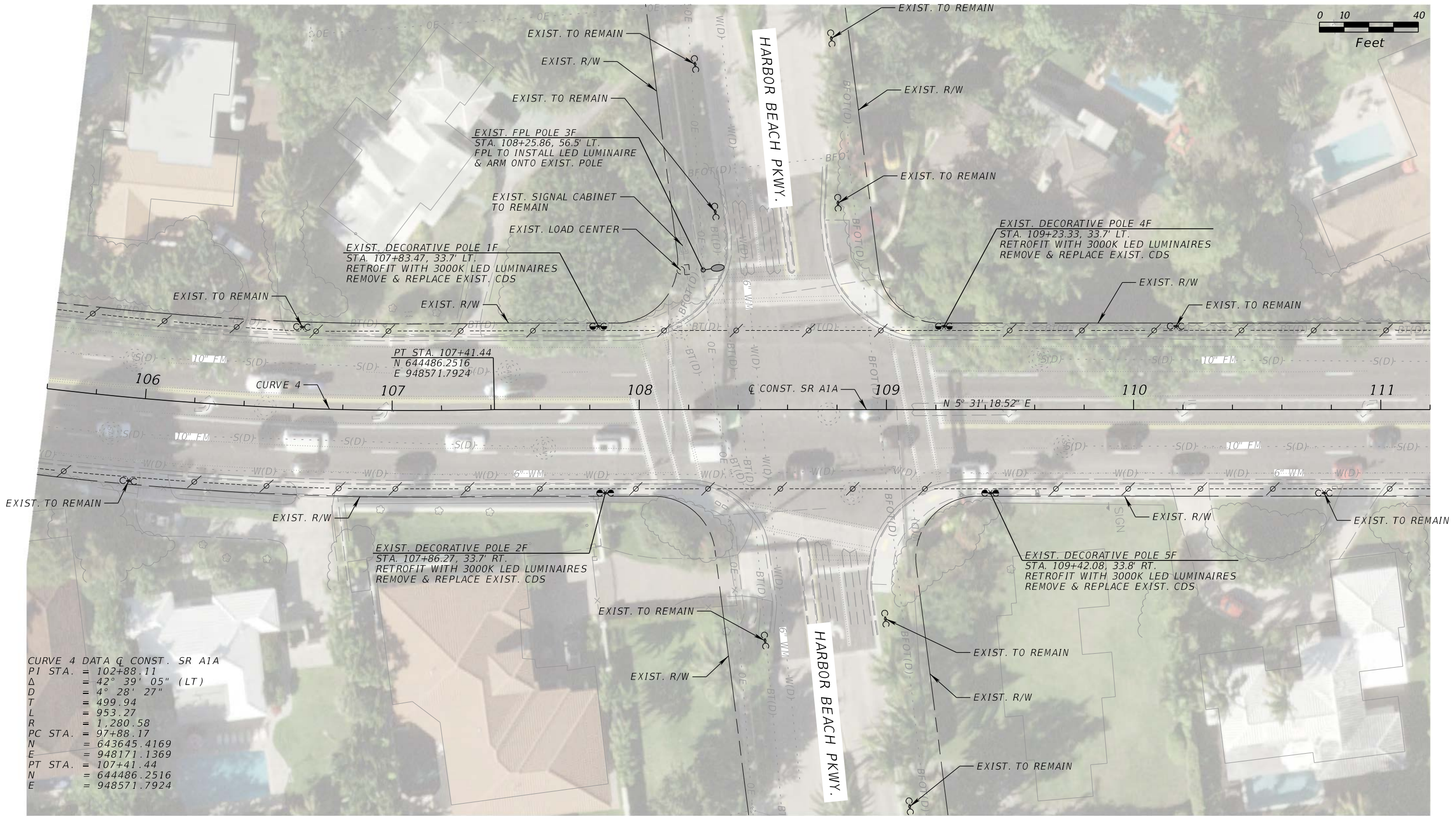
REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<div> <div>LIGHTING PLAN (4)</div> <div> CAM 20-0417 Exhibit 4-15 Page 30 of 53 </div> </div>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		

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



EXIST. LOAD CENTER
LOCATED AT SR A1A & HARBOR BEACH PKWY, SOUTHWEST CORNER

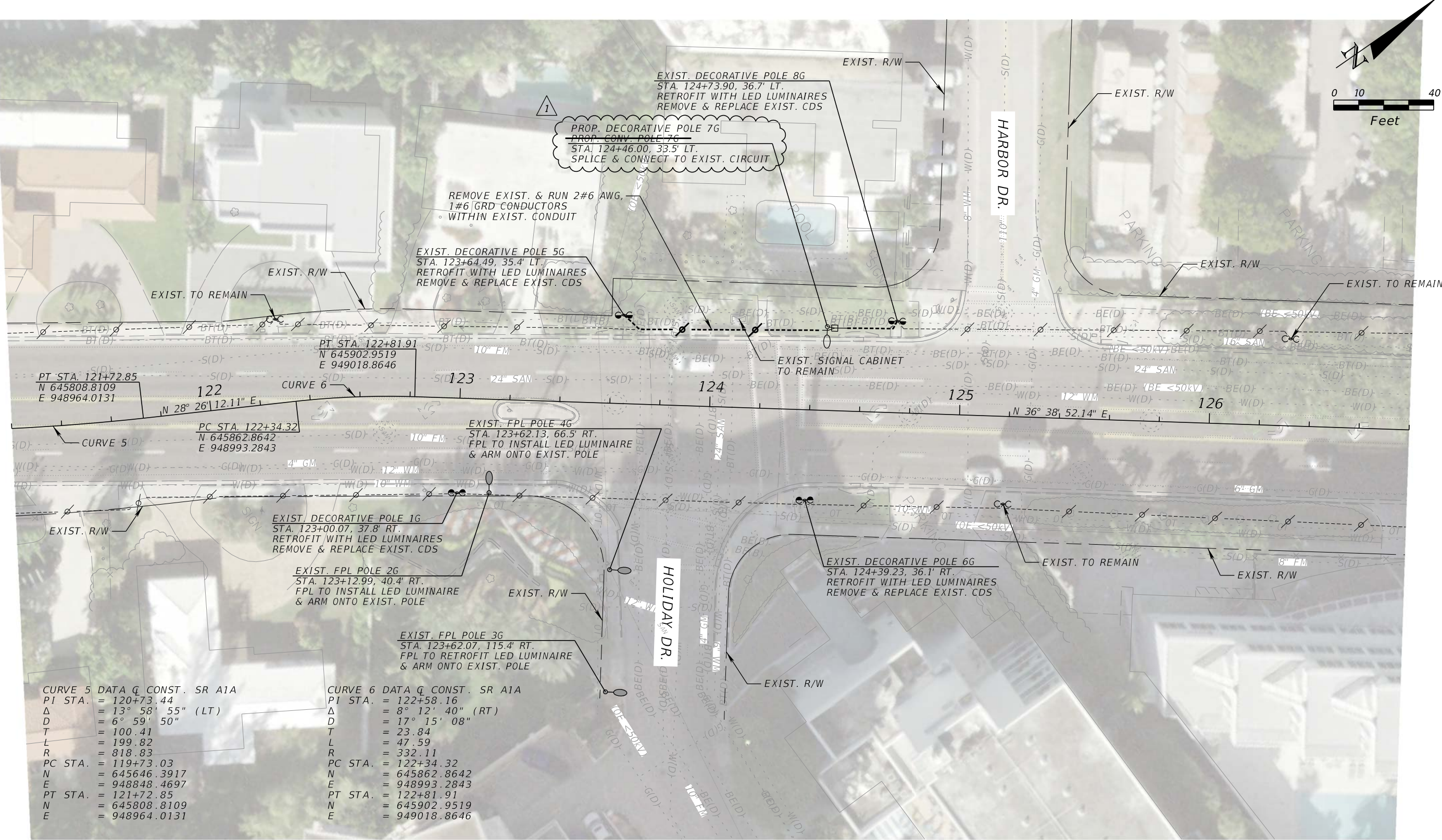
REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (5)	CAM 20-0417 Exhibit 4-16 Page 31 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
2/6/20	1 UPDATED POLES 4E & 8E TO DECORATIVE WITH 10' ARM.				SR A1A	BROWARD	440072-1-52-01			



CURVE 4 DATA Q CONST. SR A1A
PI STA. = 102+88.11
Δ = 42° 39' 05" (LT)
D = 4° 28' 27"
T = 499.94
L = 953.27
R = 1,280.58
PC STA. = 97+88.17
N = 643645.4169
E = 948171.1369
PT STA. = 107+41.44
N = 644486.2516
E = 948571.7924

EXIST. LOAD CENTER
LOCATED AT SR A1A & HARBOR BEACH PKWY, SOUTHWEST CORNER


REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (6)	CAM 20-0417 Exhibit 4-17 Page 32 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			



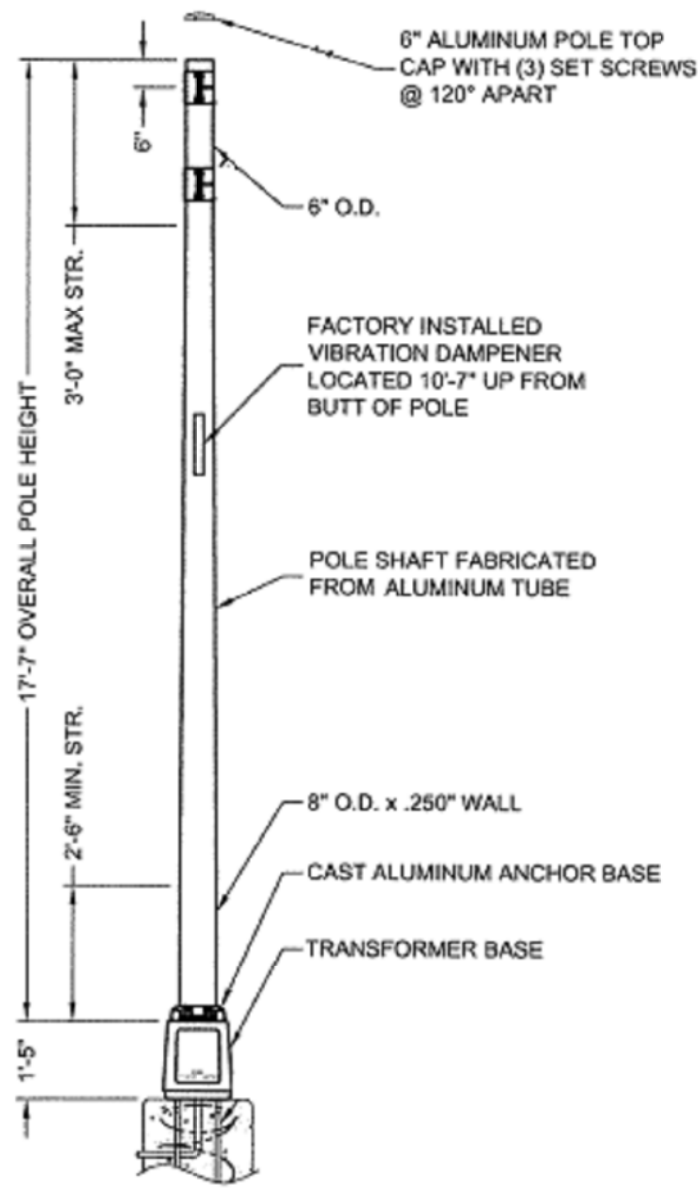
EXIST. LOAD CENTER
LOCATED AT SR A1A & HARBOR BEACH PKWY, SOUTHWEST CORNER

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (7)	CAM 20-0417 Exhibit 4-18 Page 33 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
2/6/20	1 UPDATED POLE 7G TO DECORATIVE WITH 10' ARM.				SR A1A	BROWARD	440072-1-52-01			

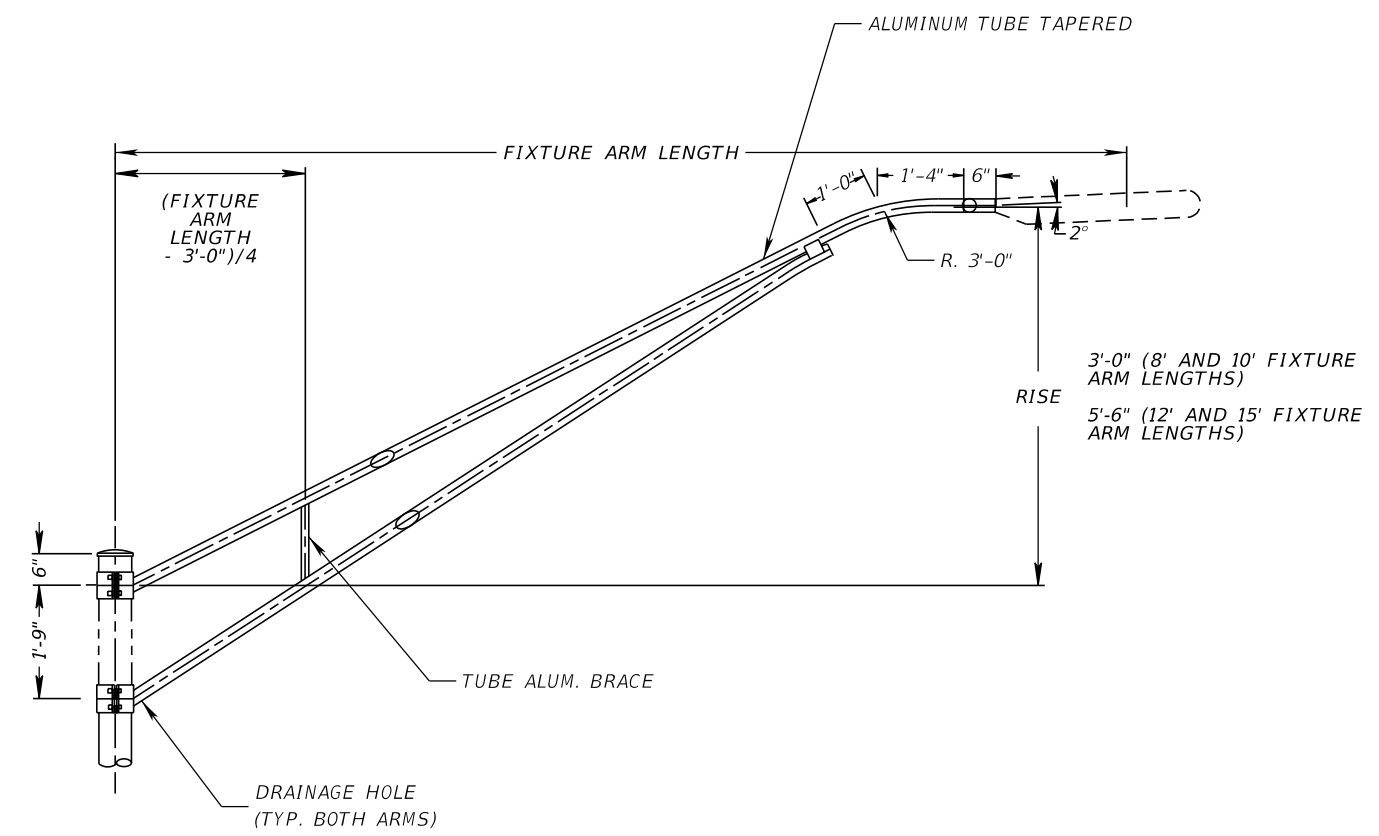


REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>LIGHTING PLAN (8)</i> CAM 20-0417 Exhibit 4-19 Page 34 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
2/6/20	 UPDATED POLE 6H & 8H TO DECORATIVE WITH 8' ARM. UPDATED POLE 2H TO POWDER COAT BLACK.				SR A1A	BROWARD	440072-1-52-01		

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CONVENTIONAL LIGHT POLE DETAIL
SPECIAL DESIGN



WARNING: DO NOT INSTALL LIGHTING
POLES WITHOUT LUMINAIRES

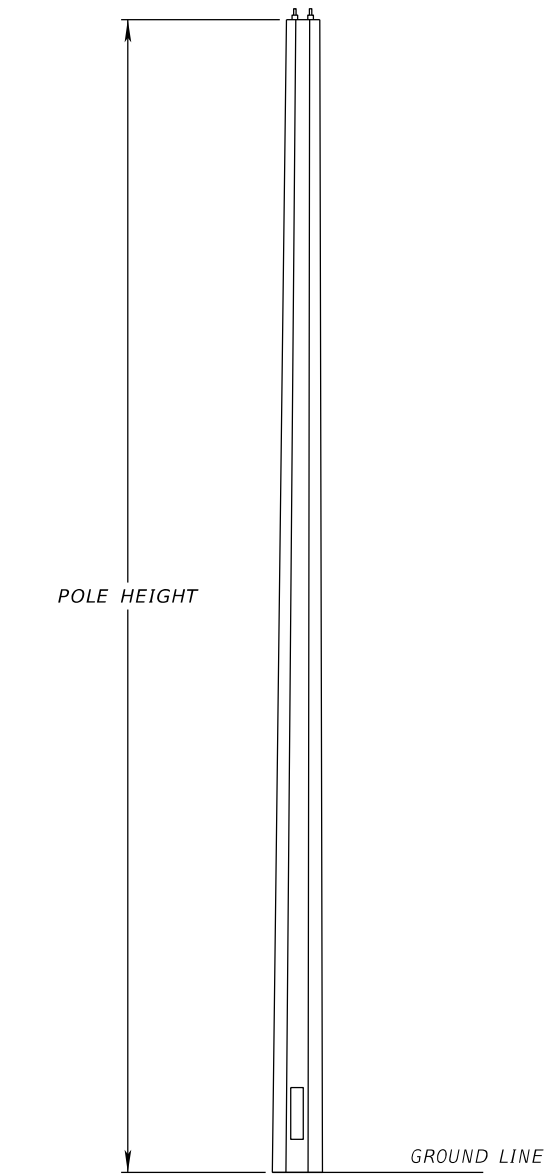
CONVENTIONAL ARM

REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION	Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DETAILS (1) CAM 20-0417 Exhibit 4-20 Page 35 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
									SR A1A	BROWARD	440072-1-52-01		

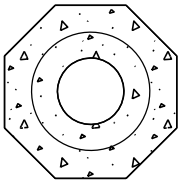
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

AMERON™ CONTEMPORARY SERIES 1C1 OCTAGONAL CONCRETE POLES

FEATURES: NATURAL STONE AND TERRAZZO
COLOR: BLACK PEBBLESTONE, EXPOSED AGGREGATE FINISH,
WITH ANTI-GRAFFITI COATING
TENON: 6" X $\varnothing 2\frac{3}{8}$ " OD



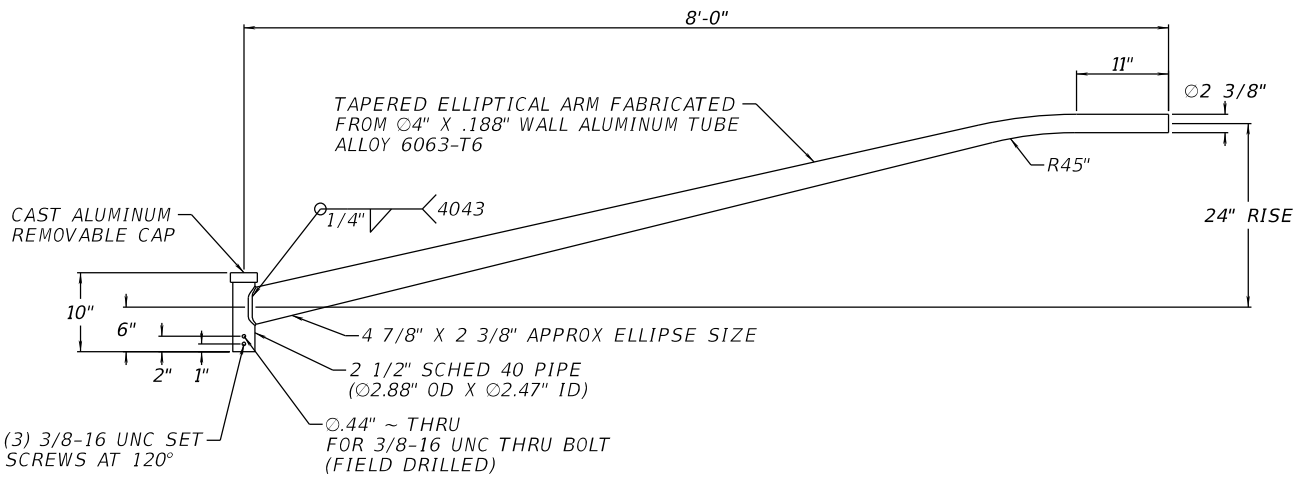
CONCRETE LIGHT POLE DETAIL
SPECIAL DESIGN



CONCRETE LIGHT POLE
CROSS SECTION DETAIL
SPECIAL DESIGN

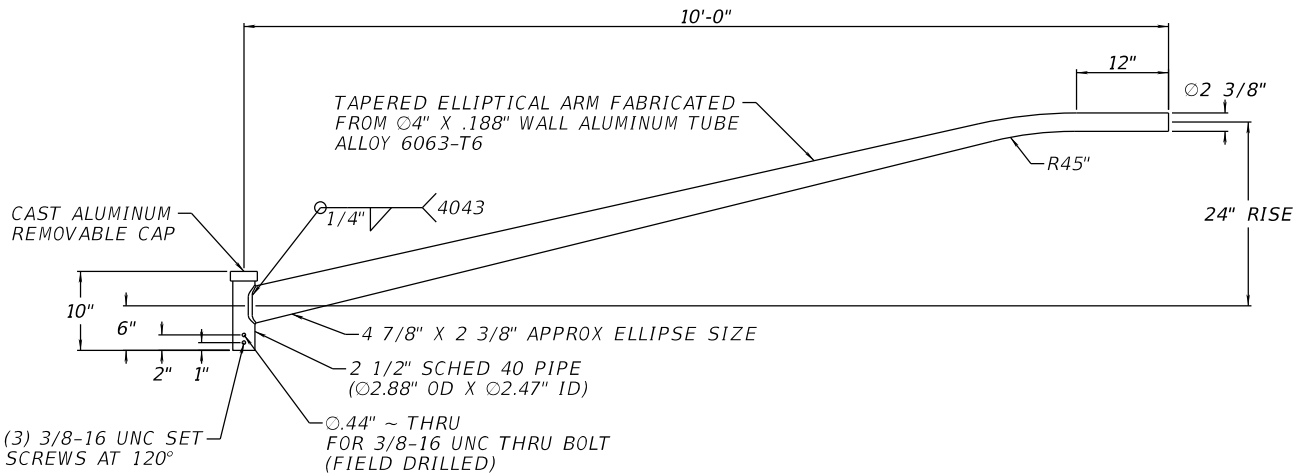
FLAGPOLE ARM-TAPERED ELLIPTICAL ALUMINUM

COLOR: FINISHED POWDER COAT BLACK



ALUMINUM ARM DETAIL A
SPECIAL DESIGN

POLES 6H & 8H



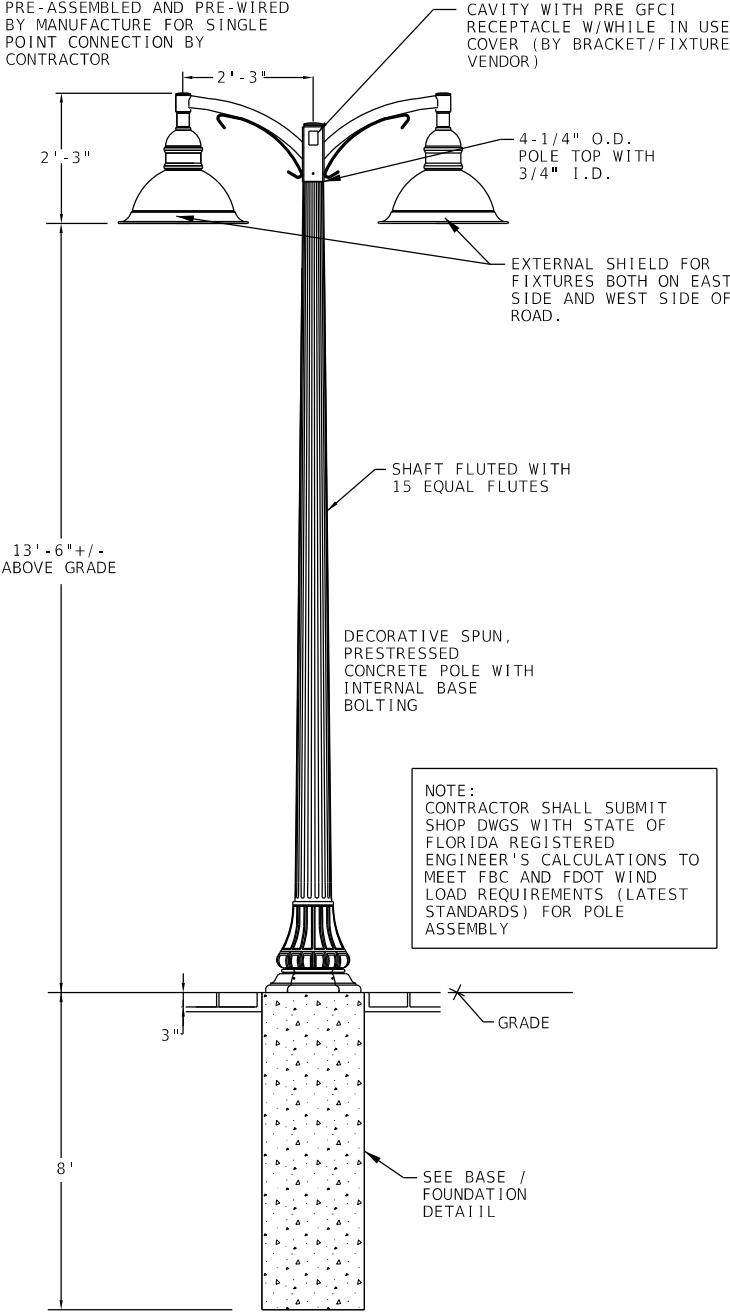
ALUMINUM ARM DETAIL B
SPECIAL DESIGN

POLES 4E, 8E & 7G

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DETAILS	CAM 20-0417 Exhibit 1-20A Page 36 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
2/6/20	1 ADDED SHEET				SR A1A	BROWARD	440072-1-52-01			

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NOTE:
FIXTURE AND ARM SHALL BE
PRE-ASSEMBLED AND PRE-WIRED
BY MANUFACTURE FOR SINGLE
POINT CONNECTION BY
CONTRACTOR



DECORATIVE SPUN,
PRESTRESSED
CONCRETE POLE WITH
INTERNAL BASE
BOLTING

NOTE:
CONTRACTOR SHALL SUBMIT
SHOP DWGS WITH STATE OF
FLORIDA REGISTERED
ENGINEER'S CALCULATIONS TO
MEET FBC AND FDOT WIND
LOAD REQUIREMENTS (LATEST
STANDARDS) FOR POLE
ASSEMBLY

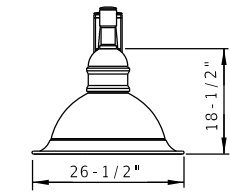
SPUNCAST PRESTRESSED WASHINGTON STYLE INTERNAL BASE PLATE
CONCRETE POLE BY AMERON POLE PRODUCTS

POLES SHALL BE FORMED AS SINGLE PIECE POLE CONSISTING OF
A TAPERED 4-1/4" TO 7" FIFTEEN FLUTE SHAFT AND A 21"
DIAMETER BY 24" HIGH DECORATIVE BASE TO AN OVERALL LENGTH
OF 14'-6". THE POLE SHALL BE MOUNTED TO A CONCRETE
FOUNDATION WITH (4) STAINLESS STEEL BOLTS ON A 9" BOLT
PATTERN TO A STAINLESS STEEL INTERNAL POLE ADJUSTER
PLATE. THE POLE BASE ACCESSIBLE BY A CONCRETE HAND HOLE
COVER. THE POLE SHALL BE FORMED WITH BLACK EXPOSED
AGGREGATES WITH AMERSHIELD ANTI-GRAFFITI COATING APPLIED.

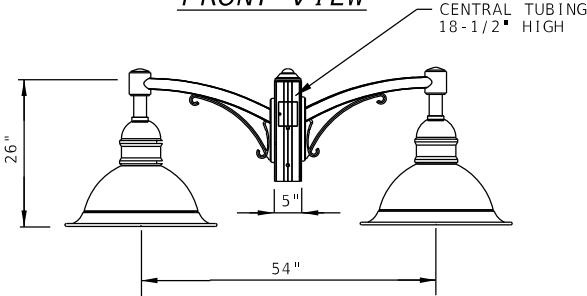
POLE DESIGNATION: 26ST14(1231)SPECIAL (WITH TENON)
POLE WEIGHT: 480 LBS

LIGHT POLE DETAIL

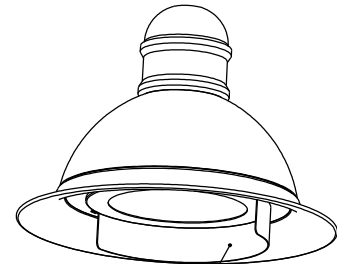
N.T.S.



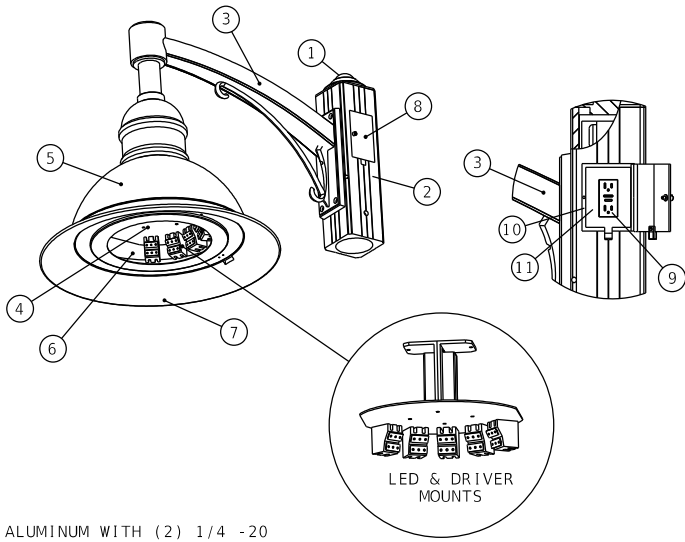
FRONT VIEW



TWIN FIXTURE/BRACKET



EXTERNAL SHIELD
270" X 4" HEIGHT
(LIGHT FIXTURES ON
BOTH EAST AND WEST
SIDE OF ROAD)



LEGEND:

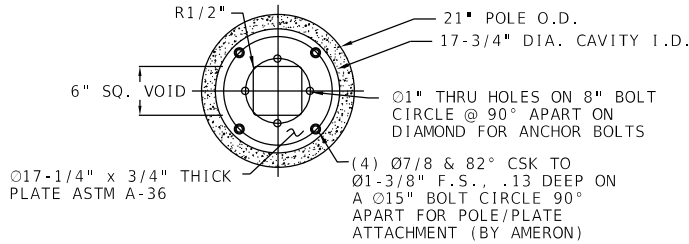
- 1 CENTRAL TUBING TOP COVER CAST ALUMINUM WITH (2) 1/4 -20 SS SET SCREWS
- 2 CAST ALUMINUM SQUARE CENTRAL TUBING TO FIT POLE TOP TENON 4" DIA. X 8", (4) 3/8-16 SS SET SCREWS & (1) 1/2"-13 X 5" SS MACHINE SCREW THREADED TO CENTRAL TUBING FOR TORSION ROTATION- CONTRACTOR SHALL DRILL TENON PER TEMPLATE PROVIDED BY VERTEX ILLUMINATION OF AMERICA
- 3 CAST ALUMINUM ARM WITH DECORATIVE SCROLL BOLTED TO CAST CENTRAL TUBING & 1-1/4" SS NIPPLE THREADED INTO ARM AND SECURED WITH LOCKNUT INSIDE FIXTURE HOUSING
- 4 LED DRIVERS MOUNT INSIDE ELECTRICAL COMPARTMENT INDEPENDENT FROM LED LIGHT ENGINE CAN BE REPLACED OR UPGRADED; VOLTAGE 120-277 V
- 5 FORMED ALUMINUM HOUSING-HOUSES TWO TIER LED ARRAYS, VERTICAL AND HORIZONTAL AIMING ANGLES, ASSYMMETRICAL DISTRIBUTION WITH NO LIGHT DIRECTED TOWARDS THE HOUSE SIDE - LED ARRAY CREE XP-E-AMBER COLOR
- 6 TEMPERED FLAT FROSTED GLASS LENS
- 7 CAST ALUMINUM LOWER FRAME
- 8 CAST ALUMINUM IN-USE DOOR FOR GFCI WITH FULL NYLON HINGE AND HEX HEAD NYLON SCREW AND RUBBER GASKET
- 9 DUPLEX GFCI RECEPTACLE-125VA-15A
- 10 JUNCTION BOX FOR GFCI
- 11 PROVIDE AND INSTALL A 3A IN-LINE FUSE AND FUSE HOLDER WITHIN THE JUNCTION BOX FOR THE GFCI RECEPTACLE.

FIXTURE NOTES:

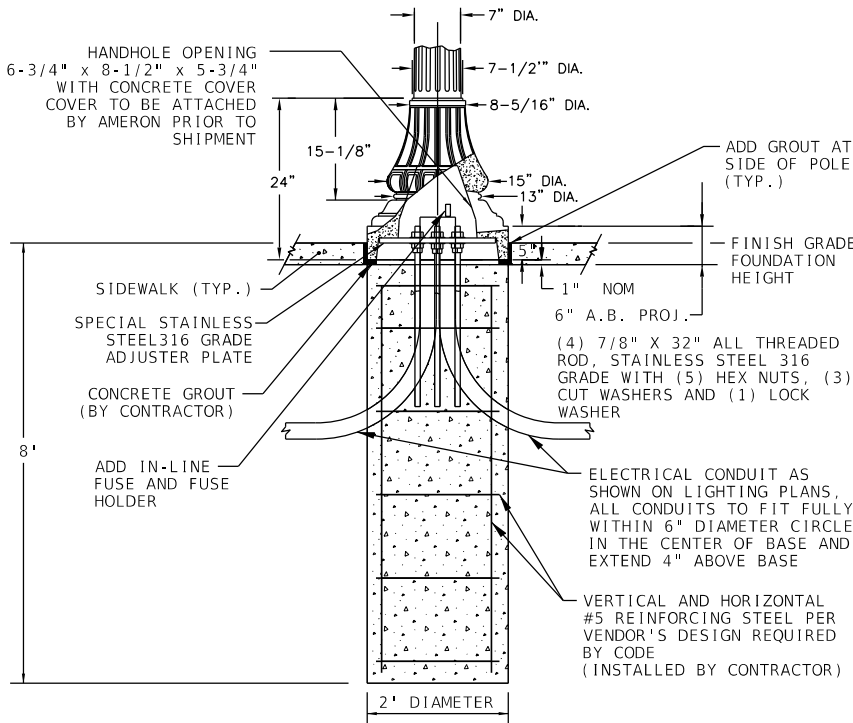
FIXTURES/BRACKETS BY VERTEX ILLUMINATIONS OF AMERICA (VIA) UTILIZING GLOSS BLACK FINISH, DARK SKY/TURTLE FRIENDLY FULL CUTOFF OPTICS

THE ENTIRE BRACKET/FIXTURE ASSEMBLY IS PRE-WIRED FOR EASY ONE POINT CONNECTION AT BOTTOM OF CENTRAL TUBING

TWIN FIXTURE AND TWIN BRACKET ASSEMBLY:
FIXTURE: CITTA LED AMBER-TRLE-240V-GLOSS-BLACK
BRACKET: FCL-FLL-BR2-27-BKTX
EXTERNAL 270 DEGREE SHIELD: CAT. #CITTA 270S-4-GLOSS-BLACK
EPA ASSEMBLY: 5.25 SQ FT; WEIGHT ASSEMBLY: 164 LBS



**BOTTOM VIEW WITH SPECIAL
ADJUSTER PLATE**



BASE / FOUNDATION DETAIL

N.T.S.

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DETAILS (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		
							CAM 20-0417 Exhibit 4-21 Page 37 of 53		

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

TTCP NOTES

1.

EXISTING POSTED SPEED SHALL BE MAINTAINED.
2.

LANE CLOSURES ARE NOT PERMITTED BETWEEN 7:00 AM AND 8:30 PM, MONDAY THRU FRIDAY AS WELL AS DURING THE FOLLOWING EVENTS WITHIN THE CITY OF FORT LAUDERDALE:

ANNUAL BOAT SHOW (OCTOBER 30-NOVEMBER 3, 2019)
SPRING BREAK (LAST WEEK OF FEBRUARY TO FIRST WEEK OF APRIL, 2020)
TORTUGA MUSIC FESTIVAL (APRIL 2020)
AIR AND SEA SHOW (MAY 2020)
GREAT AMERICAN BEACH BASH (MAY 2020)

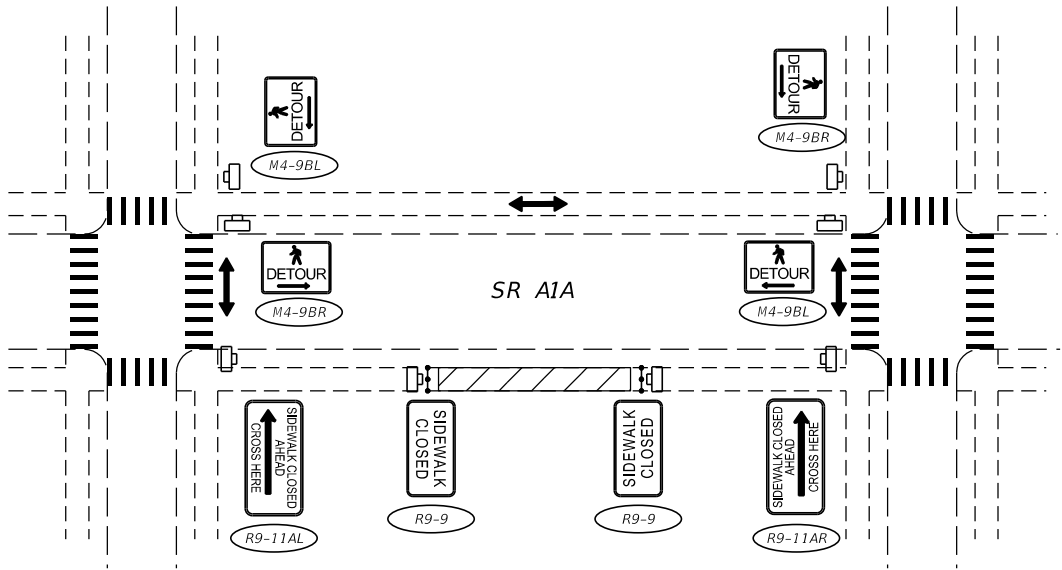
PHASING NOTES

1.

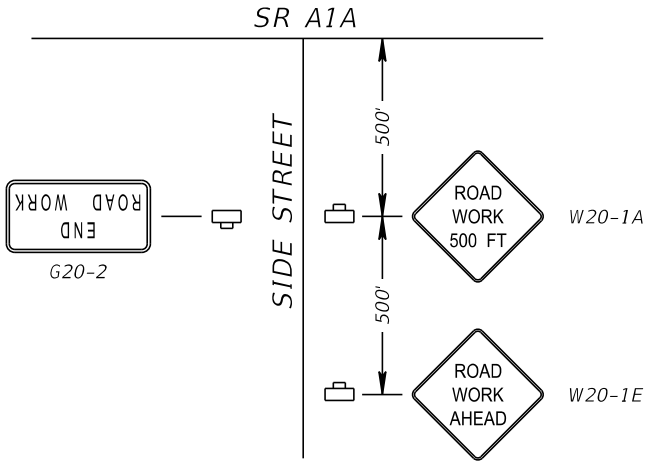
CONSTRUCT IMPROVEMENTS UTILIZING STANDARD PLANS INDEX 102-612, 102-613 AND 102-616.
2.

MAINTAIN PEDESTRIAN TRAFFIC UTILIZING STANDARD PLANS INDEX 102-660.
3.

TWO (2) PROJECT INFORMATION SIGNS ARE REQUIRED AT EACH END OF THE PROJECT. OBTAIN PROJECT INFORMATION SIGN DATA AT THE PRECONSTRUCTION CONFERENCE.



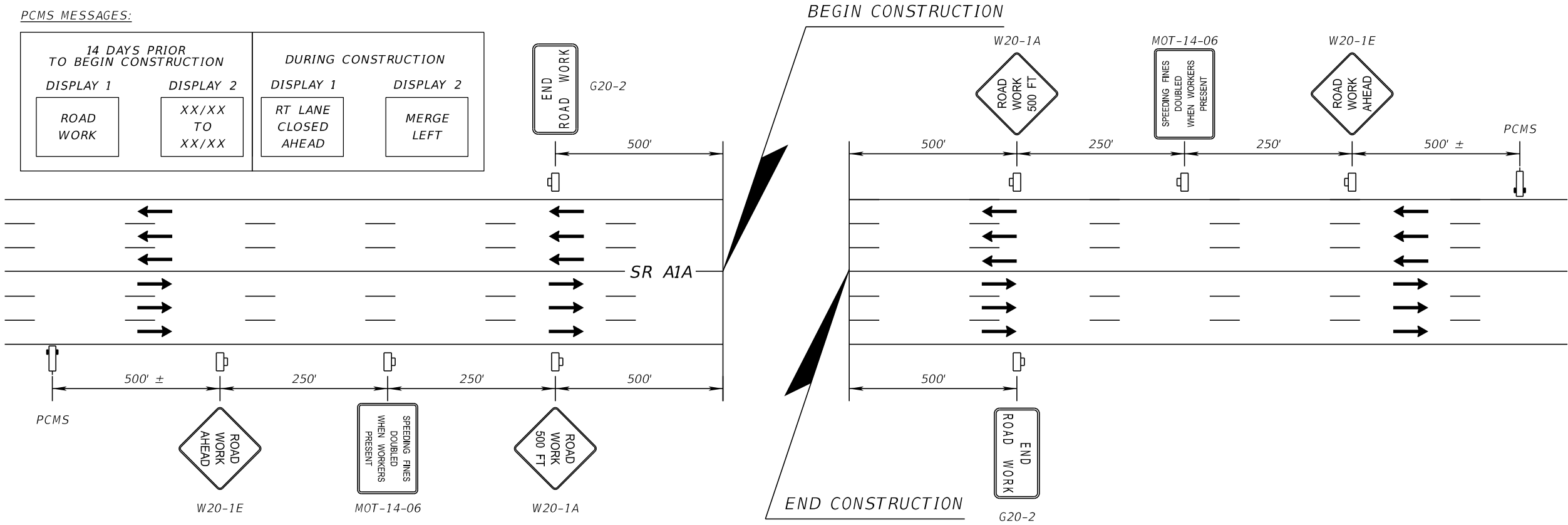
PEDESTRIAN DETOUR BETWEEN SIGNALIZED INTERSECTIONS
TYPICAL DETAIL



SIDE STREET SIGNING
NTS
MIAMI ROAD
SE 10TH AVENUE
CORDOVA ROAD
EISENHOWER BLVD
MAYAN DRIVE
HARBOR BEACH PKWY
HOLIDAY DRIVE
HARBOR DRIVE

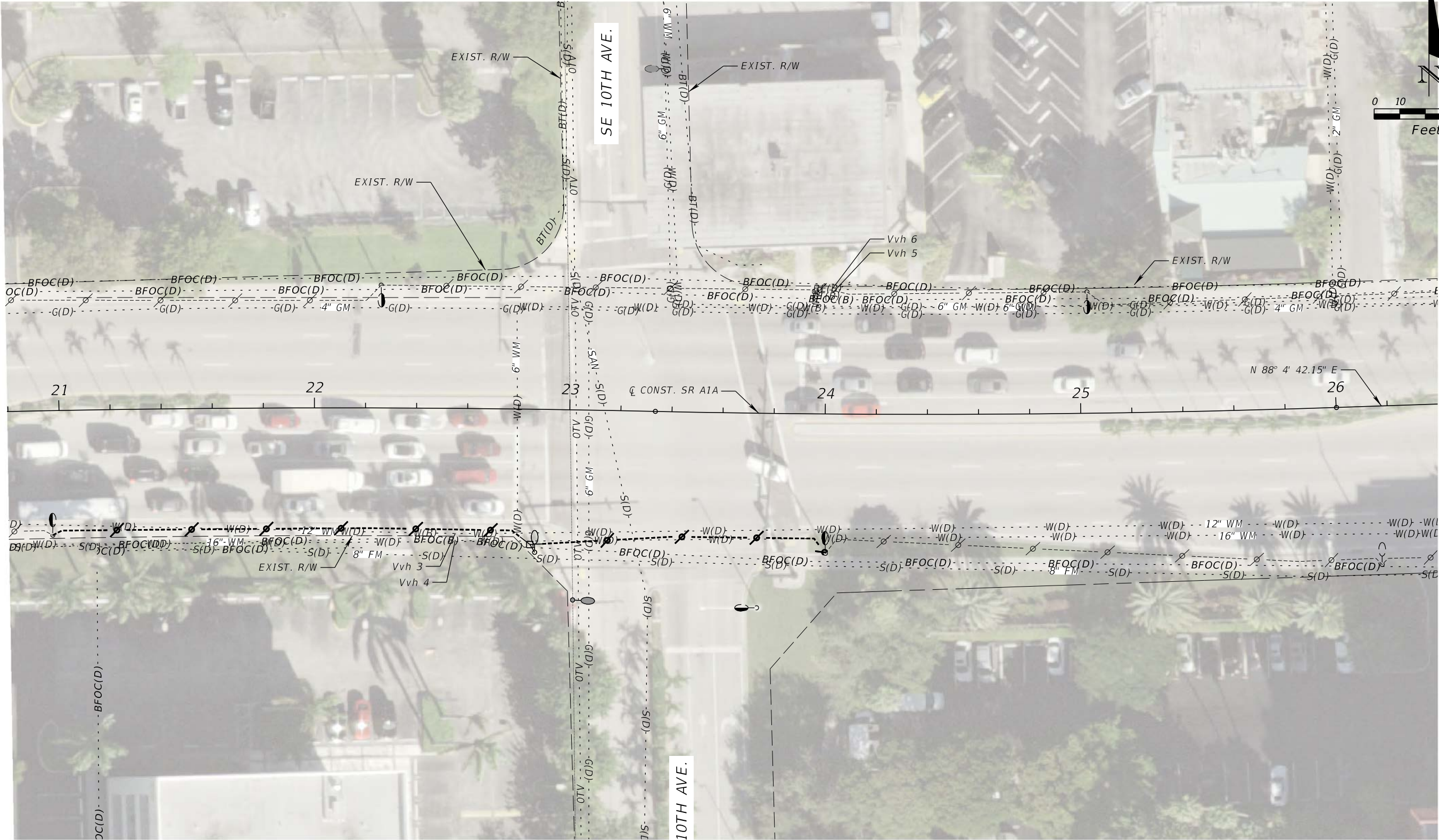
PCMS MESSAGES:

14 DAYS PRIOR TO BEGIN CONSTRUCTION		DURING CONSTRUCTION	
DISPLAY 1	DISPLAY 2	DISPLAY 1	DISPLAY 2
ROAD WORK	XX/XX TO XX/XX	RT LANE CLOSED AHEAD	MERGE LEFT

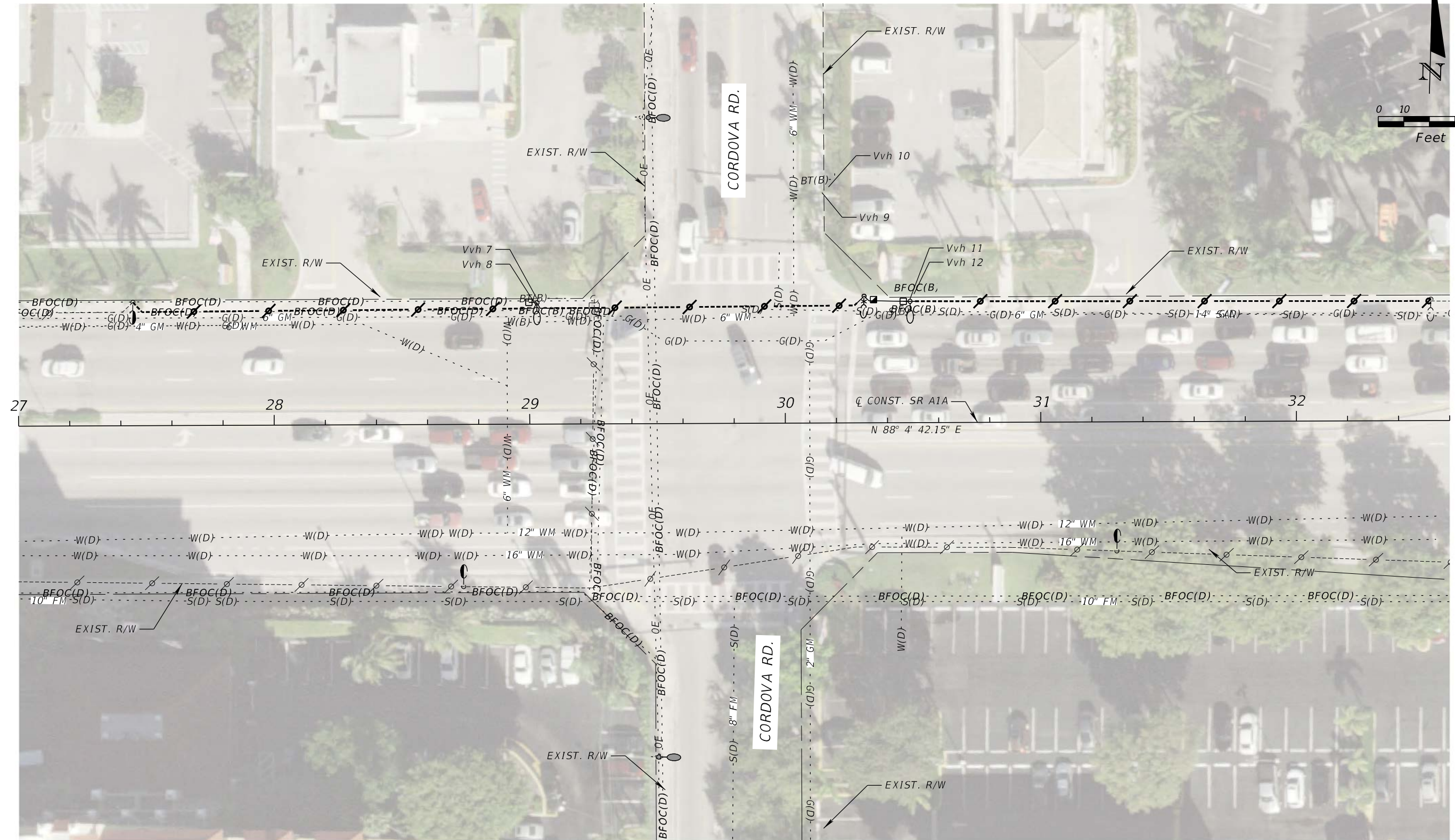


ADVANCE WARNING SIGN DIAGRAM AT BEGIN/END CONSTRUCTION
NTS

REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Gary Ng, P.E., No. 58717	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TEMPORARY TRAFFIC CONTROL PLAN		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01	CAM 20-0417 Exhibit 4-22 Page 38 of 53	



REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		UTILITY ADJUSTMENTS (2) CAM 20-0417 Exhibit 4-24 Page 40 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
					SR A1A	BROWARD		

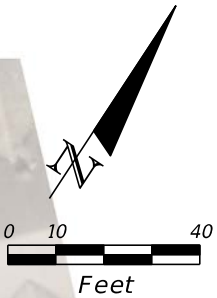
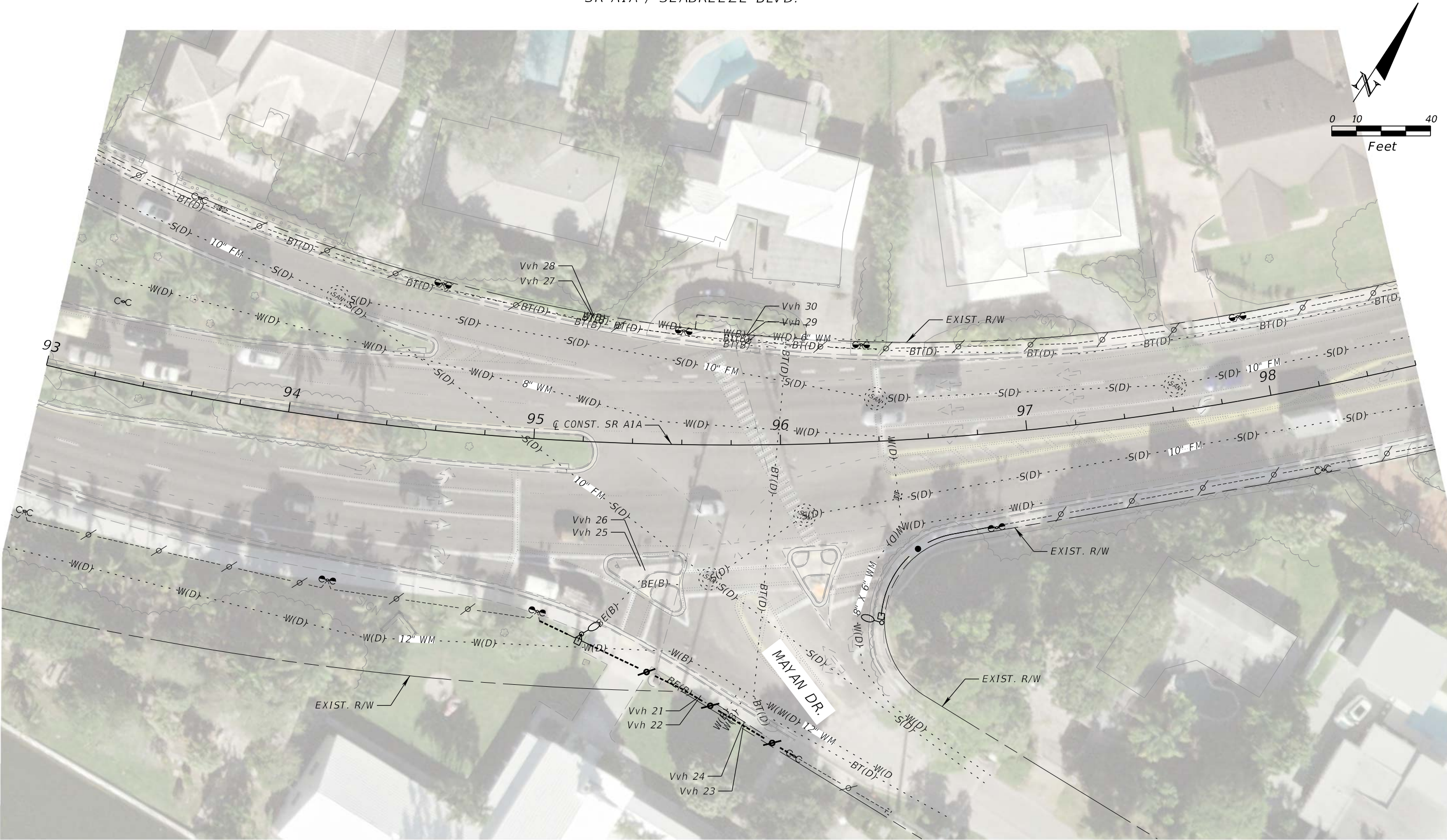


REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>UTILITY ADJUSTMENTS (3)</i> CAM 20-0417 Exhibit 4-25 Page 41 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		

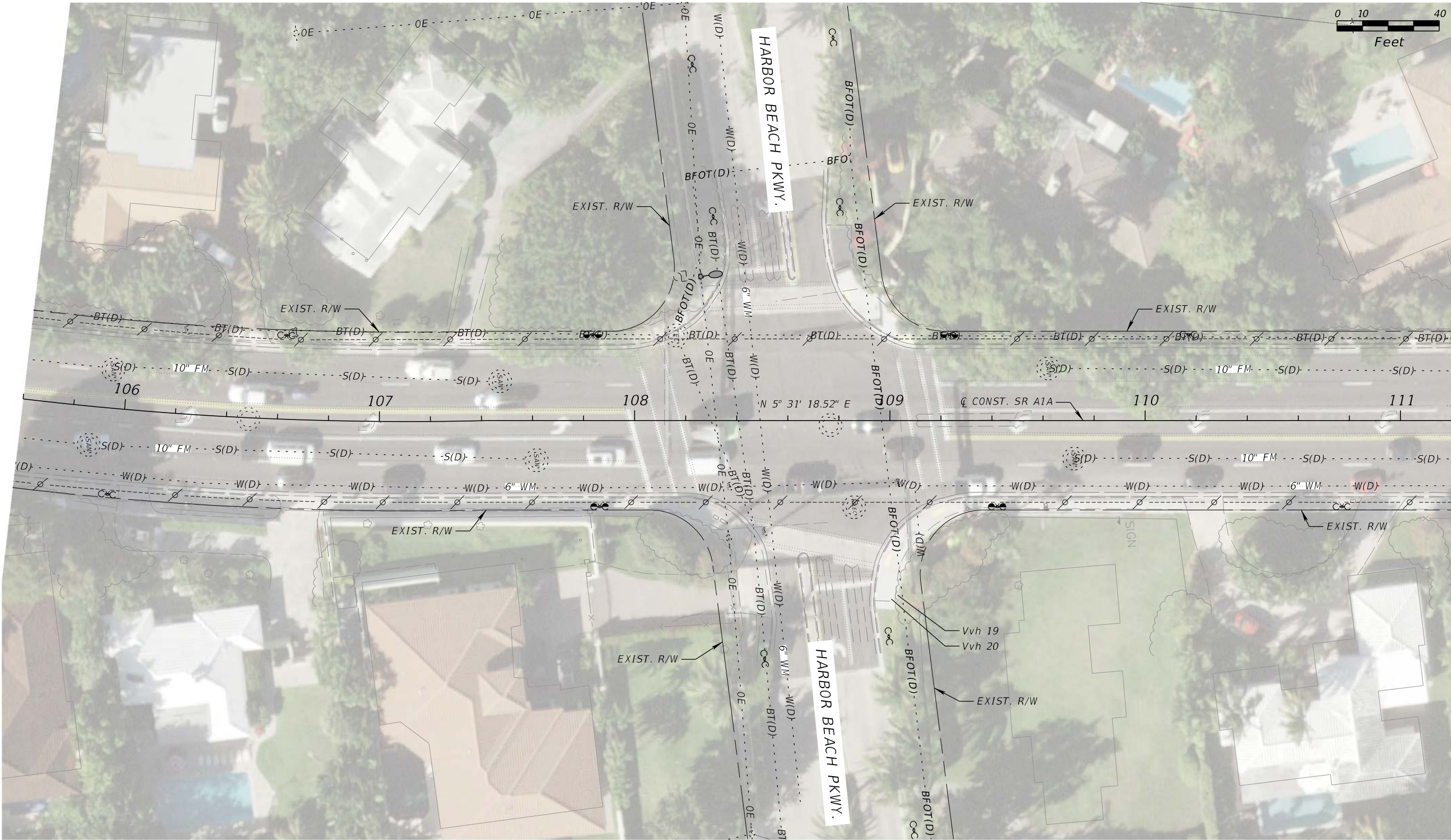
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (4) CAM 20-0417 Exhibit 4-26 Page 42 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		

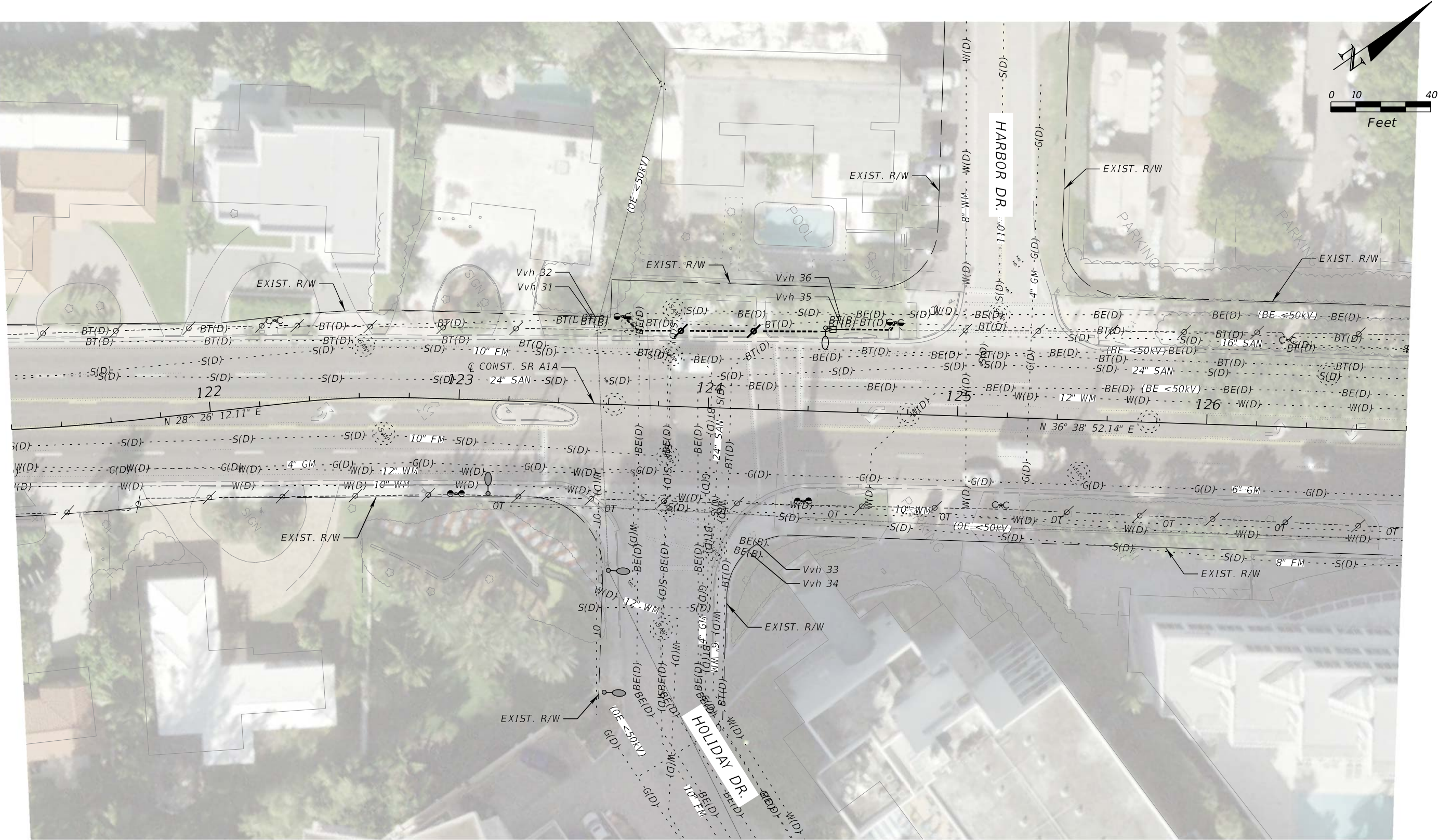


REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		UTILITY ADJUSTMENTS (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
					ROAD NO.	COUNTY		
					SR A1A	BROWARD	440072-1-52-01	CAM 20-0417 Exhibit 4-27 Page 43 of 53

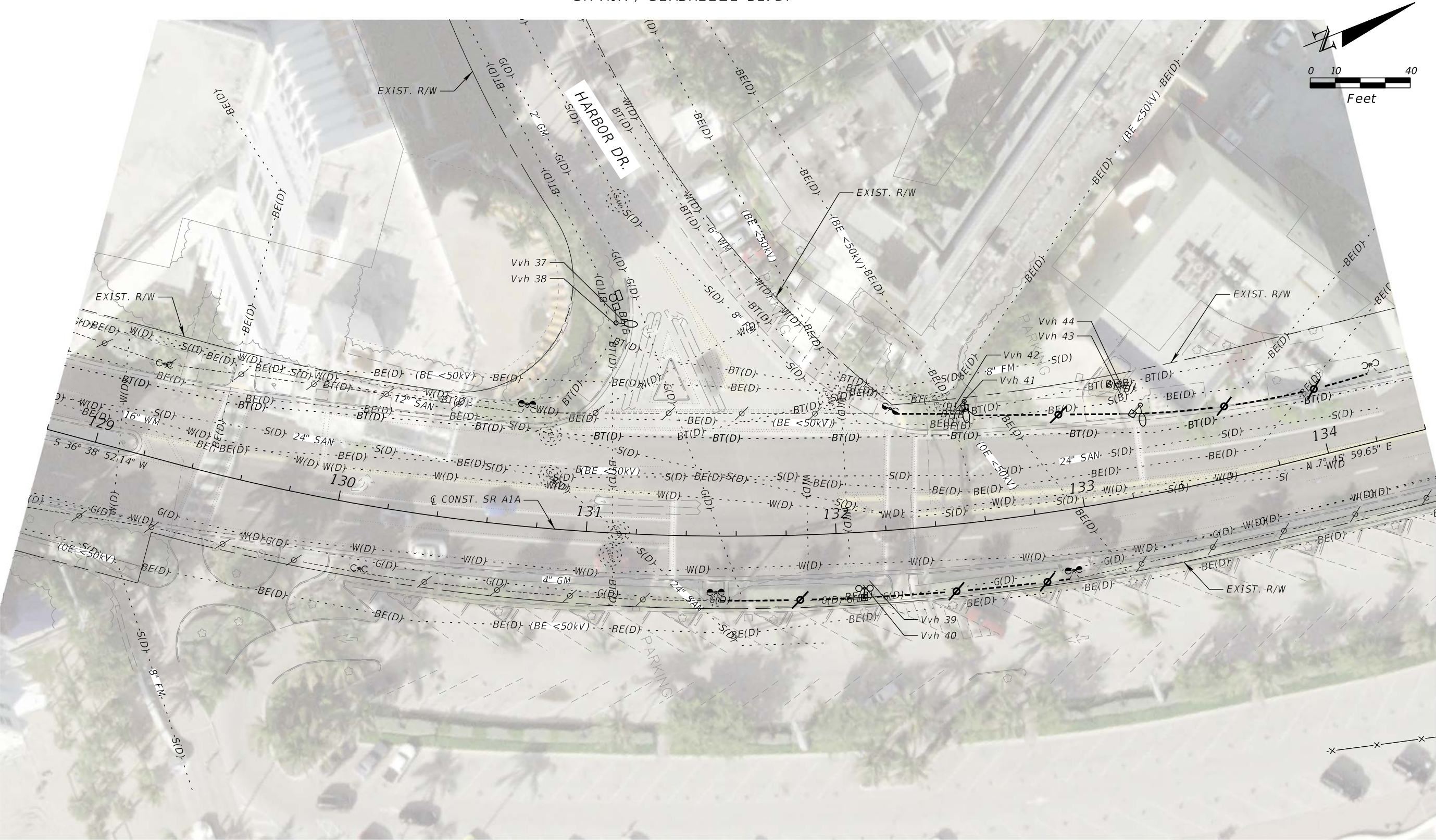


REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (6) CAM 20-0417 Exhibit 4-28 Page 44 of 53		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR A1A	BROWARD	440072-1-52-01			

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REVISIONS				Florida Transportation Engineering, Inc. 8333 NW 53rd Street, Suite 450 Doral, FL 33166 Phone: (305) 463-8411 Certificate of Authorization No.: 00007924 Oliver Remy Rodrigues, P.E., No. 50646	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (7) CAM 20-0417 Exhibit 4-29 Page 45 of 53	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR A1A	BROWARD	440072-1-52-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Florida Transportation Engineering, Inc.
8333 NW 53rd Street, Suite 450
Doral, FL 33166
Phone: (305) 463-8411
Certificate of Authorization No.: 00007924
Oliver Remy Rodrigues, P.E., No. 50646

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	440072-1-52-01

UTILITY ADJUSTMENTS (8)
CAM 20-0417
Exhibit 4-30
Page 46 of 53

SHEET NO.
4-30

SR A1A AT MIAMI RD.

BORING NO. B-1
NORTHING 643156.5
EASTING 939384.2
STATION 49+35
OFFSET 70' LT.
DATE 3/15/04
HAMMER AUTOMATIC
TYPE OF RIG CME 75

BORING NO. B-2
NORTHING 643004.8
EASTING 939536.2
STATION 50+77
OFFSET 59' RT.
DATE 3/15/04
HAMMER AUTOMATIC
TYPE OF RIG CME 75

BORING NO. B-3
NORTHING 643042.8
EASTING 940320.3
STATION 58+68
OFFSET 62' RT.
DATE 3/15/04
HAMMER AUTOMATIC
TYPE OF RIG CME 75

LEGEND

1. (TOPSOIL) DARK BROWN TO BLACK ORGANIC SILTY FINE SAND WITH TRACE OF ROOTS
2. (FILL) LIGHT BROWN LIMEROCK WITH FINE SAND
3. (FILL) LIGHT BROWN AND GRAY FINE SAND TO SLIGHTLY SILTY FINE SAND WITH LIMEROCK (SP-SM/SP)
4. LIGHT GRAY CLEAN FINE SAND TO SLIGHTLY SILTY FINE SAND (SP/SP-SM)
5. BROWN AND GRAY SANDY LIMESTONE

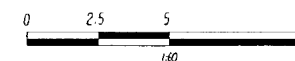
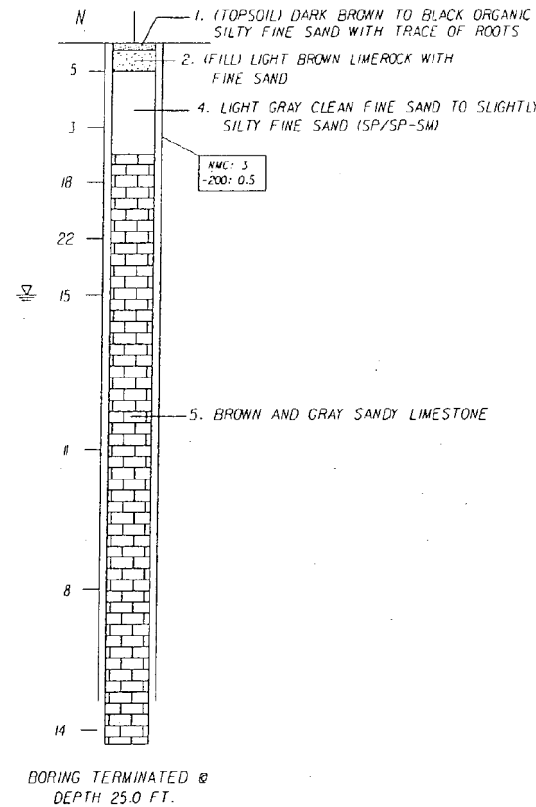
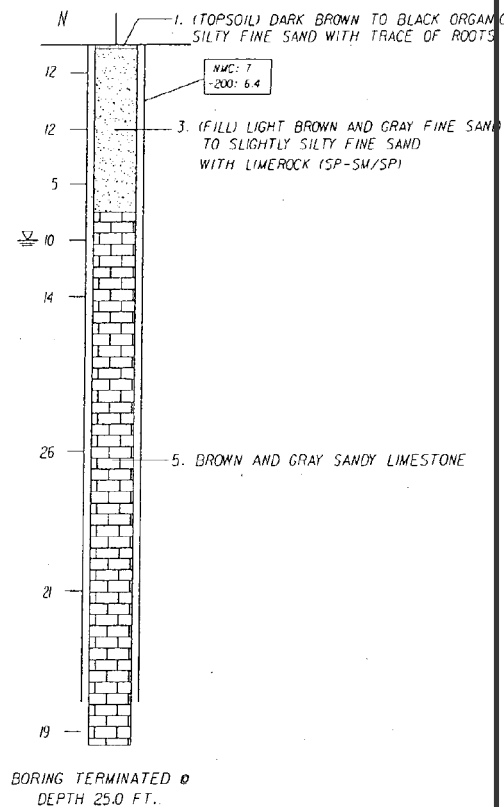
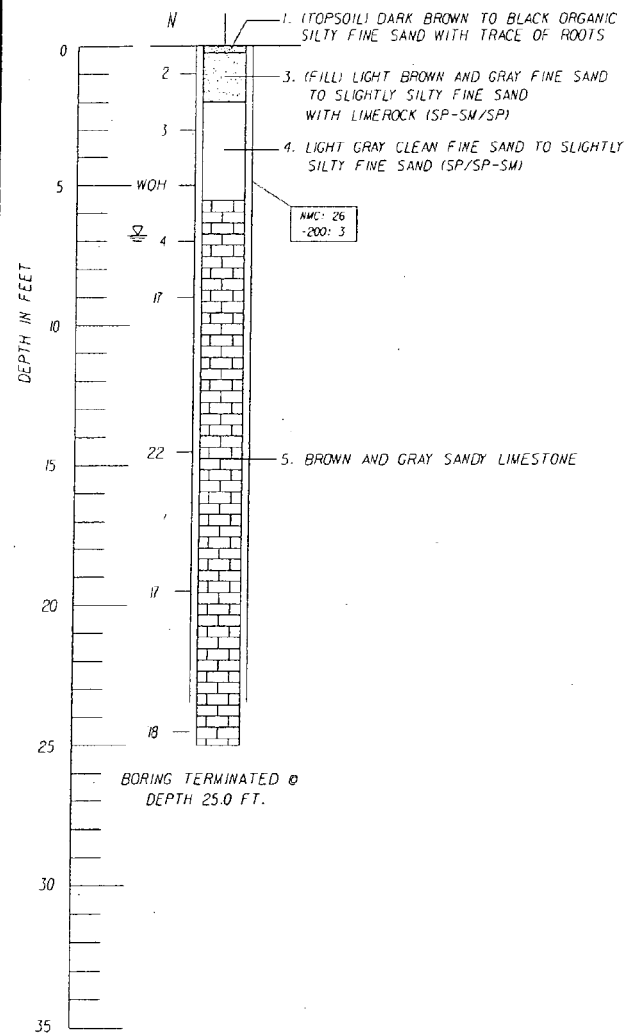
NOTES:

- * WATER TABLE AT TIME OF DRILLING
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION (UNLESS OTHERWISE NOTED).
- || CASING USED
- WOH FELL UNDER THE WEIGHT OF THE HAMMER
- NMC NATURAL MOISTURE CONTENT (%)
- 200 PASSING THE No. 200 SIEVE (%)

(SR A1A) SURVEY BASELINE

GRANULAR MATERIALS- RELATIVE DENSITY	AUTOMATIC HAMMER SPT-N (BLOWS/12 in)
VERY LOOSE	LESS THAN 3
LOOSE	3-7
MEDIUM	7-21
DENSE	21-35
VERY DENSE	GREATER THAN 35
SILTS AND CLAYS CONSISTENCY	AUTOMATIC HAMMER SPT-N (BLOWS/12 in)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-11
VERY STIFF	11-21
HARD	GREATER THAN 21

THESE DRAWINGS WERE
PREPARED UNDER DISTRICT/AREAWIDE
CONTRACT FM No. 2300616203



REVISIONS						Information To Build On Engineering Consulting Testing CERTIFICATE OF AUTHORIZATION No. 3684 HUGO E. SOTO, P.E. No. 36440 7950 N.W. 64th STREET, MIAMI, FL 33166 PHONE (305) 471-7725 * FAX (305) 593-1915	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS	SHEET NO. 33
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.		
							A/A	BROWARD	409136-1-52-01		

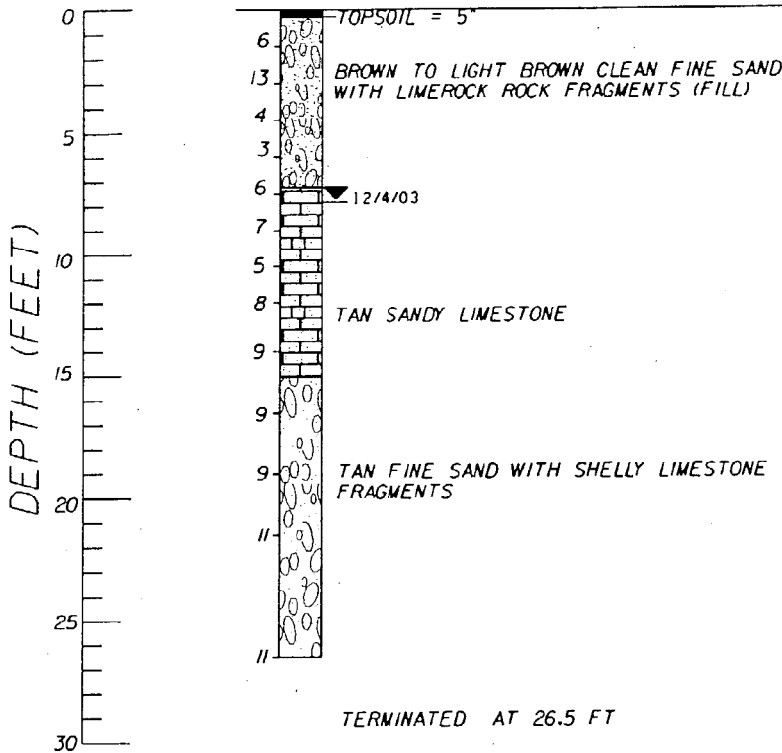
FOR INFORMATION ONLY

FINANCIAL PROJECT ID. 440072-1-52-01
SHEET NO. 33
Page 47 of 53

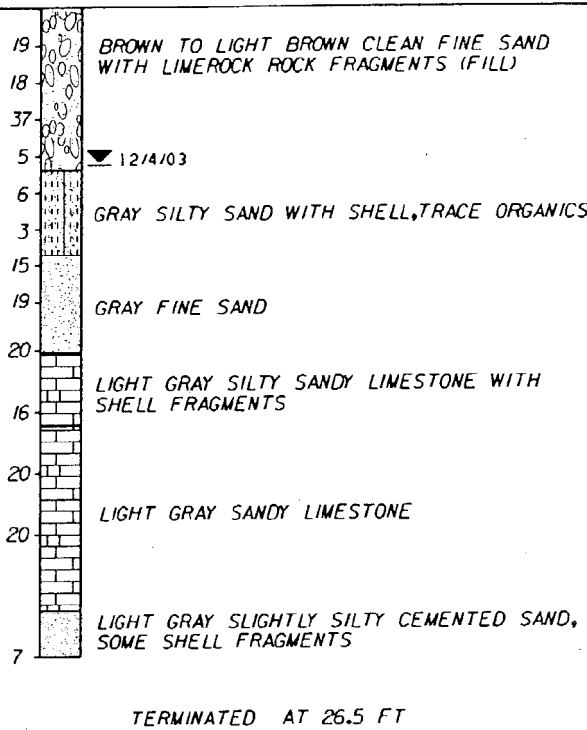
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.

SR A1A AT 10TH ST.

BORING NO. 1
STATION : 62+88
OFFSET : 64 FT LT OF B/L SR A-1-A
NORTHING : 643165.53377
EASTING : 940742.91323
DATE : 12-04-03



BORING NO. 2
STATION : 64+03
OFFSET : 83 FT RT OF B/L SR A-1-A
NORTHING : 643057.27478
EASTING : 940861.78929
DATE : 12-04-03



GENERAL NOTES

- ALL DEPTHS GIVEN IN DISTANCE BELOW EXISTING GROUND AT BORING LOCATIONS.
- NUMBERS TO LEFT OF BORINGS INDICATE BLOWS ON SPOON FOR 12" PENETRATION ("N" VALUES), UNLESS OTHERWISE NOTED.
- BORINGS WERE DONE AS PER A.S.T.M. TEST PROCEDURES D-1586-67
- SPOON: INSIDE DIAMETER: 1-3/8"
OUTSIDE DIAMETER: 2"
- HAMMER: WEIGHT: 140 LBS
DROP: 30"
- BORINGS WERE DONE WITH A CME AUTOMATIC HAMMER.
- THE SOIL STRATIFICATION IS REPRESENTATIVE OF THE CONDITIONS AT THE LOCATION WHERE THE BORING WAS MADE BUT CONDITIONS MAY VARY AT ADJACENT LOCATIONS.
- ENVIRONMENT:
 - . SUBSTRUCTURE: MODERATELY AGGRESSIVE
 - . SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

LEGEND:

	SANDY LIMESTONE		(FILL) FINE SAND & LIMEROCK FRAGMENTS
	SILTY SAND		FINE SAND
	WATER TABLE		FINE SAND WITH SHELLY LIMESTONE FRAGMENTS
	TOP SOIL		

GRANULAR MATERIALS	AUTOMATIC HAMMER SPT N-VALUE
RELATIVE DENSITY	(BLOW/FOOT 300 MM)
VERY LOOSE	LESS THAN 3
LOOSE	3-7
MEDIUM DENSE	7-21
DENSE	21-35
VERY DENSE	GREATER THAN 35

SILTS & CLAYS	AUTOMATIC HAMMER SPT N-VALUE
CONSISTENCY	(BLOW/FOOT 300 MM)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-11
VERY STIFF	11-21
HARD	GREATER THAN 21

(MAST ARMS) SR-A1A/SE 17th STREET AND SE 10th AVE

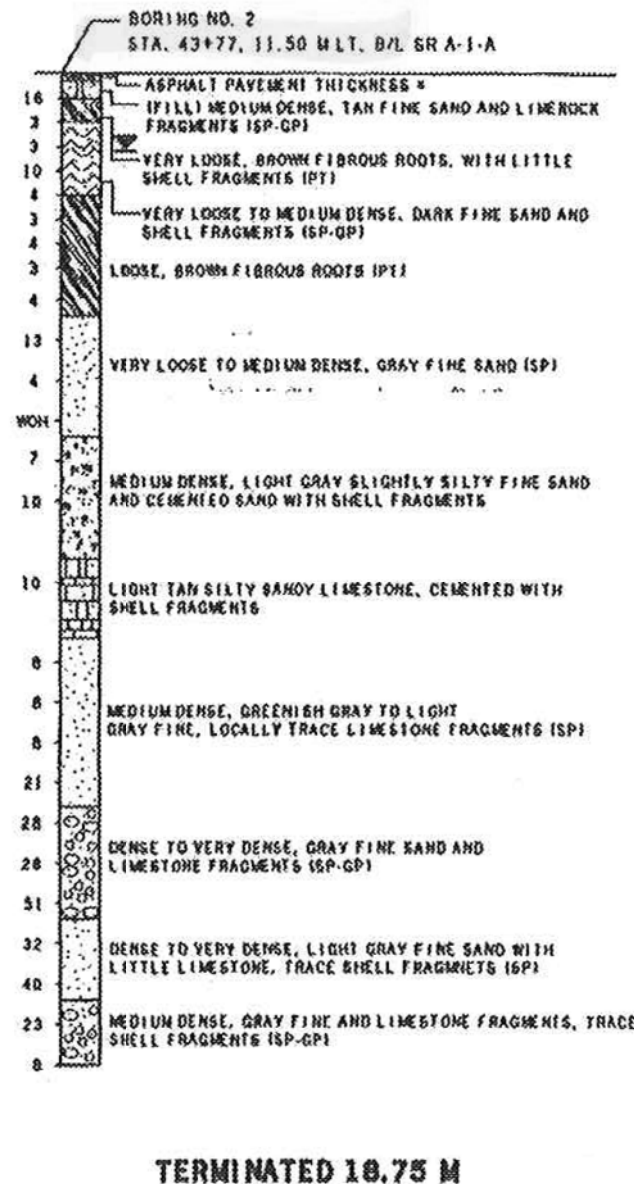
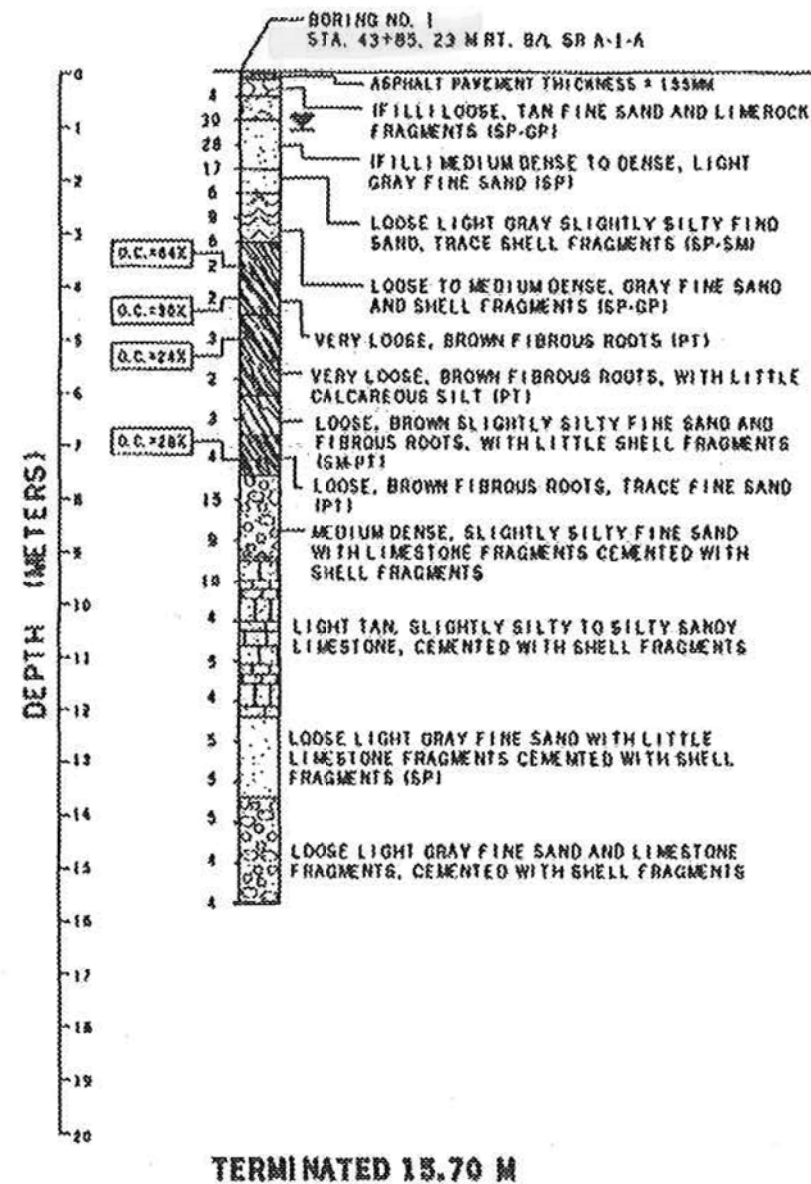
REVISIONS						F.D.O.T DISTRICT 4 & 6 MATERIALS OFFICE JUAN F. CASTELLANOS, P.E. PE #: 46781 14200 WEST STATE ROAD 84 DAVIE, FLORIDA 33325	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS	SHEET NO. 32
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							A1A	BROWARD	409136-1-52-01		

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SHEET NO.

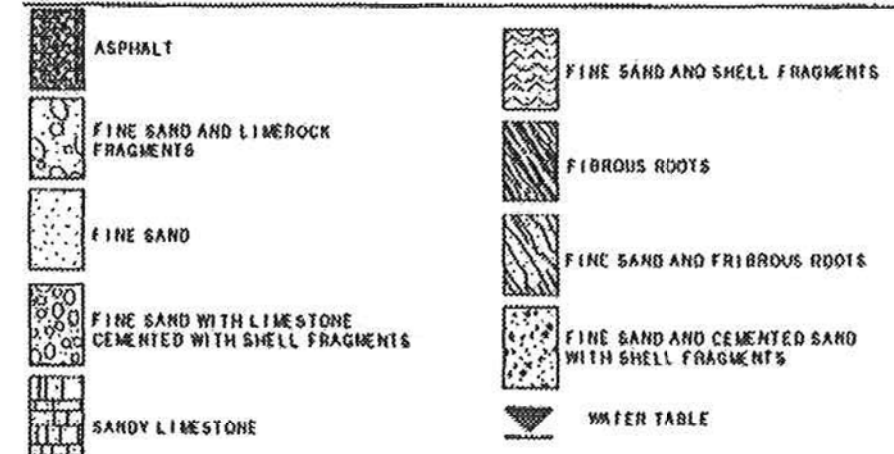
FINANCIAL PROJECT ID: 440072-1-52-01
CAM 20-0417
Exhibit R-3
Page 49 of 53



GENERAL NOTES

- ALL DEPTHS GIVEN IN DISTANCE BELOW EXISTING GROUND AT BORING LOCATIONS.
- NUMBERS TO LEFT OF BORINGS INDICATE BLOWS ON SPOON FOR 0.30M PENETRATION (1" VALUES), UNLESS OTHERWISE NOTED.
- BORINGS WERE DONE AS PER A.S.T.M. TEST PROCEDURES D-1586-67
- SPOON: INSIDE DIAMETER: 35 MILLIMETERS
OUTSIDE DIAMETER: 51 MILLIMETERS
- HAMMER: WEIGHT: 63.5 KILOGRAMS (+/- 0.5 Kg)
DROP: 760 MILLIMETERS (+/- 20 mm)
- BORINGS WERE DONE WITH A CME AUTOMATIC HAMMER.
- THE SOIL STRATIFICATION IS REPRESENTATIVE OF THE CONDITIONS AT THE LOCATION WHERE THE BORING WAS MADE BUT CONDITIONS MAY VARY AT ADJACENT LOCATIONS.
- O.C. = ORGANIC CONTENT
- WON = WEIGHT OF HAMMER
- ENVIRONMENT:
 - a). SUBSTRUCTURE: EXTREMELY AGGRESSIVE
 - b). SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

LEGEND:



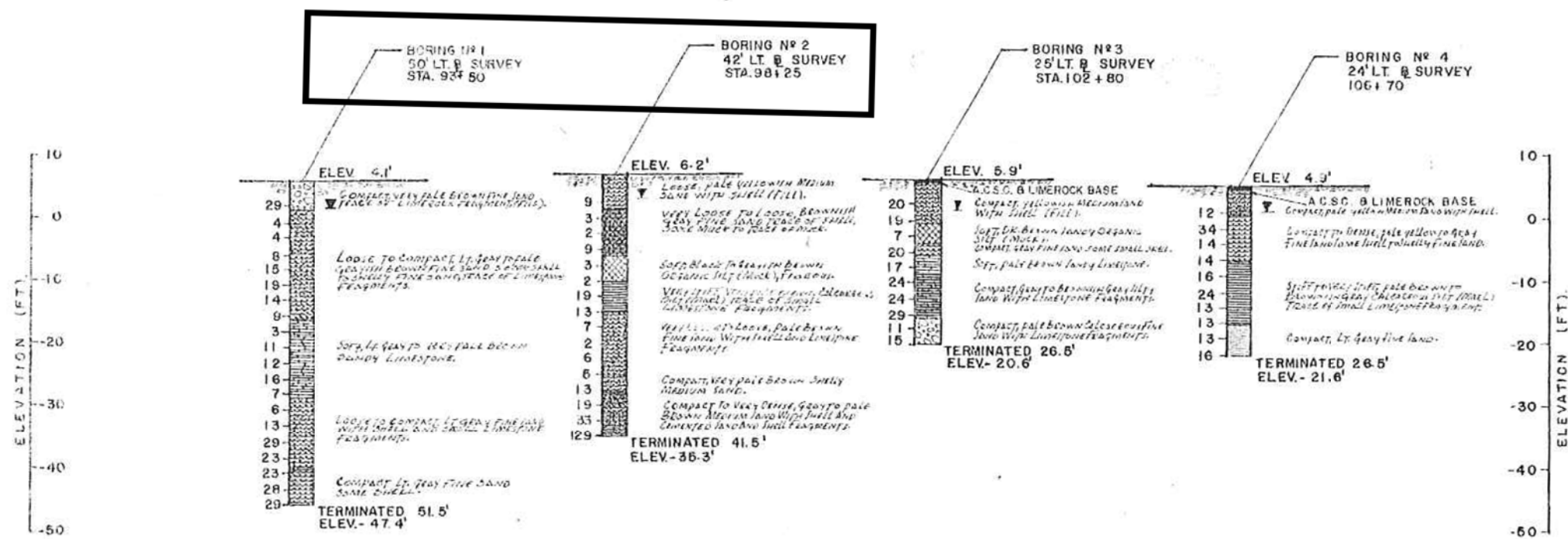
SR A1A 350 FEET WEST OF MAYAN DR.

DAVID C. MIRO P.E.
REGISTRATION No. 16689

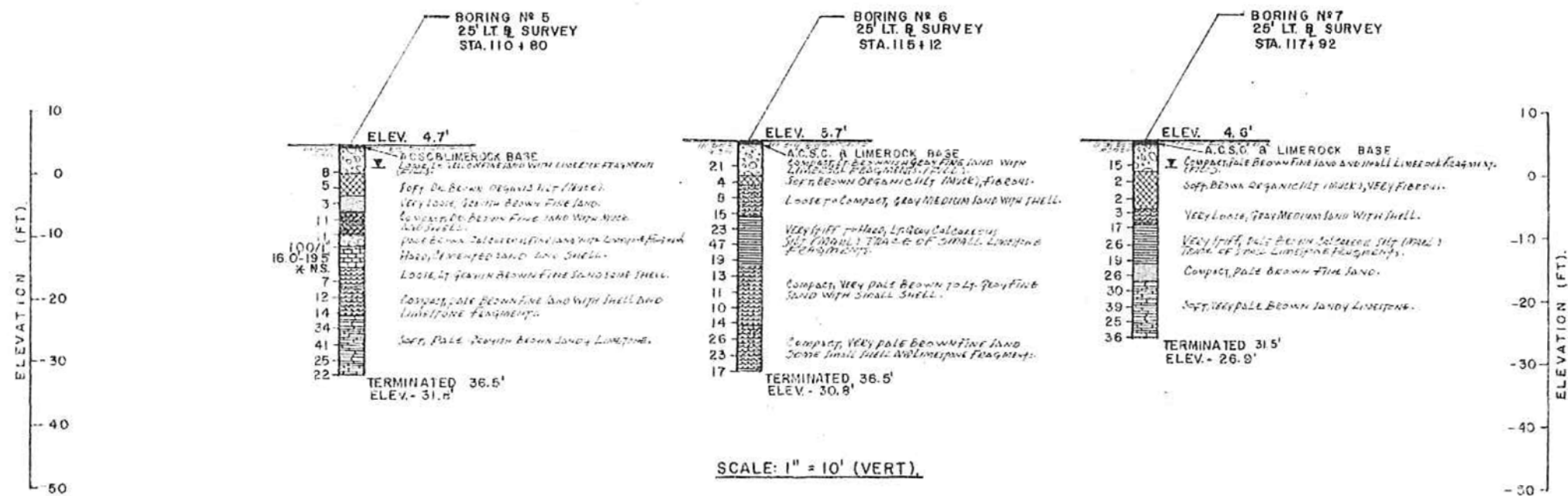
DATE

REVISIONS						APPROVALS				FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.	
No.	By	Reason	Date	By	Function	For	By	Date	Signature	Project No.	Sheet No.	Project Name	Sheet Title	Project No.	Sheet Title
										440072-1-52-01	SR A-1-A	MAST ARM	SR A-1-A	440072-1-52-01	MAST ARM
										SR A-1-A	SR A-1-A	MAST ARM	SR A-1-A	440072-1-52-01	MAST ARM

FOR INFORMATION ONLY



SR A1A AT MAYAN DR.



SCALE: 1" = 10' (VERT).

GENERAL NOTES:

Numbers to left of borings indicate flow in gpm
For 12" penetration - unless otherwise noted.

ALL DEPTHS GIVEN IN DISTANCE BELOW FASTING GROUND
AT BORING LOCATIONS.

Spoon: Inside Diameter
Outside "

FINANCIAL: WEIGER

NOTE:
GROUND WATER LEVEL IS
CONTROLLED BY TIDE.

LEGEND

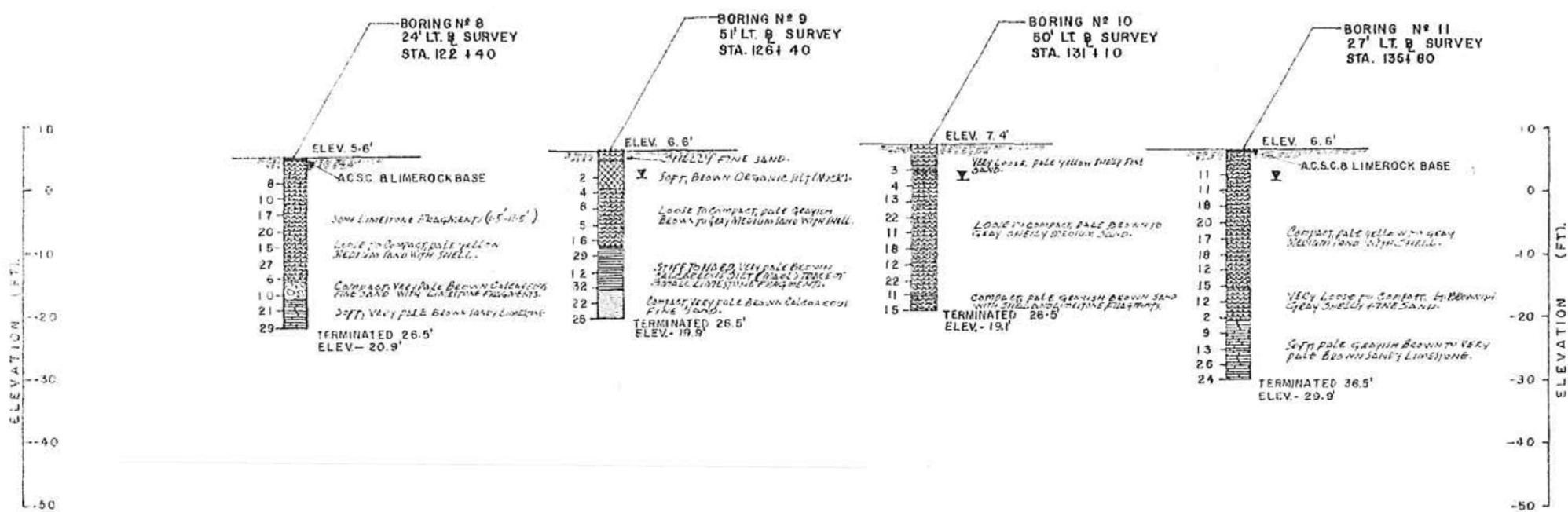
- | | |
|---|---|
|  | ORGANIC SILT (MUD) |
|  | FINE SAND, SHELL, AND MUCK |
|  | FINE SAND |
|  | FINE SAND AND LIMESTONE FRAGMENTS |
|  | FINE SAND AND SHELL |
|  | FINE SAND, SHELL, AND LIMESTONE FRAGMENTS |
|  | SOFT SAND AND LIMESTONE FRAGMENT |
|  | LIMESTONE SILT (MUD), ORGANIC, AND LIMESTONE FRAGMENTS |
|  | MEDIUM SAND AND SHELL |
|  | MEDIUM SAND, SHELL, AND CEMENTED SAND & SHELL FRAGMENTS |
|  | SOFT, SANDY LIMESTONE |
|  | HARD, CEMENTED SAND AND SHELL |

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
REPORT OF CORE BORINGS FOR STRUCTURES		
S.R.A-I-A LIGHT STRUCTURES		
PROJ. NO.: 86180-3509	BORING DATE: 5-16/6-6-'77	
ROAD NO.: S.R.A-I-A	BORINGS BY: R. PONCE	
COUNTY: BROWARD	SUBMITTED BY: L.R. MORGADO, P.E.	
APPROVED BY <i>R. W. Tamshe</i>	DRAWING NO.	INDEX NO.

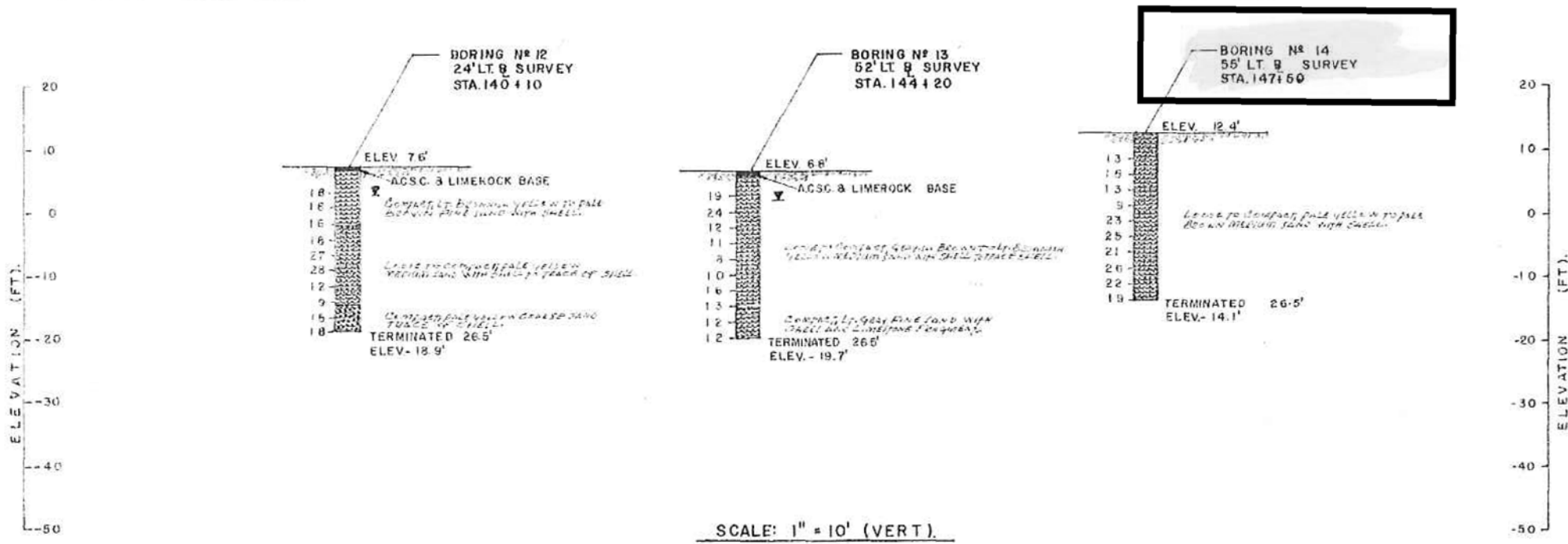
FOR INFORMATION ONLY

SHEET
NO.

FINANCIAL PROJECT 50	CAM 20-0417
440072-1-52-01 Exhibit	GRX-5
Page 51 of 53	



SR A1A 150 FEET +/- WEST OF HOLIDAY DR.



- LEGEND**
- ORGANIC SILT (MUCK)
 - FINE SAND
 - FINE SAND, SHELL, AND LIMESTONE FRAGMENTS
 - FINE SAND AND SHELL
 - FINE SAND AND LIMESTONE FRAGMENTS
 - CALCAREOUS SILT (MUCK) AND SHELL FRAGMENTS
 - MEDIUM SAND AND SHELL
 - COARSE SAND AND SHELL
 - SOFT, SANDY LIMESTONE

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION REPORT OF CORE BORINGS FOR STRUCTURES		
S.R.A-I-A LIGHT STRUCTURES		
PROJ. NO.: 86180-3509	BORING DATE: 5-16/6-6-'77	
ROAD NO.: S.R.A-I-A	BORINGS BY: R. PONCE	
COUNTY: BROWARD	SUBMITTED BY: L.R. MORGADO, P.E.	
APPROVED BY: 	DRAWING NO.	INDEX NO.

FOR INFORMATION ONLY

EXHIBIT C

MAINTENANCE PLAN REQUIREMENTS

In reference to Maintenance to be performed under this Agreement, the **AGENCY** shall submit to the **DEPARTMENT** a maintenance plan detailing the means and methods for accomplishing any maintenance or repairs to the **IMPROVEMENTS** in accordance with all **DEPARTMENT** Standards, Procedures and Specifications. This plan shall be submitted and approved by the **DEPARTMENT** prior to commencing any maintenance or repair activities. The **AGENCY** shall comply with the **DEPARTMENT's** applicable Maintenance Rating Program Standards. 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