

SECTION NO.: 86050
FM No.(s): 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

**DISTRICT FOUR
MAINTENANCE MEMORANDUM OF AGREEMENT**

THIS AGREEMENT, made and entered into this _____ day of _____ 2014, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the **DEPARTMENT**, and **City of Fort Lauderdale**, a municipal corporation existing under the Laws of Florida, hereinafter called the **AGENCY**.

WITNESSETH:

WHEREAS, the **DEPARTMENT** has jurisdiction over State Road A1A; and

WHEREAS, the **DEPARTMENT** 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 State Road A1A (within the limits of the **AGENCY**); and

WHEREAS, it is the intent of the **AGENCY** and the **DEPARTMENT** that the **AGENCY** shall maintain the specific elements constructed under Project Number 433688-4-52-01 to include decorative light fixtures or poles, decorative sea wall, LED string lights and fiber-optic system servicing the decorative sea wall installed along State Road A1A between M.P. 3.248 and M.P. 4.322.

WHEREAS, landscape and all other hardscape elements shall be maintained under the inclusive agreement with the **AGENCY** dated January 31, 2008 and all amendments thereto.

WHEREAS, the Project involves the scope of work as described within **Exhibit A and Exhibit C**, which will benefit the **AGENCY**; and

WHEREAS, the parties hereto mutually recognize the need for entering into an Agreement designation and setting forth the responsibilities of each party; and

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

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

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. **INSTALLATION OF FACILITIES**
The **DEPARTMENT** has issued Project Number 433688-4-52-01 to reconstruct State Road A1A as detailed in **Exhibit A** and **Exhibit C** that will benefit the **AGENCY**.

3. MAINTENANCE OF FACILITIES

A. The **AGENCY** agrees to maintain the improvements to be installed under Project Number 433688-4-52-01 within the limits of construction. Maintenance by the **AGENCY** will include repair, restoration, and general maintenance of all decorative or non-standard features within the limits of construction. Non-standard items are defined as items requested by the **AGENCY** that are not defined in the **DEPARTMENT'S** Design Standards. This includes decorative light fixtures or poles, decorative sea wall, LED string lights and fiber-optic system servicing the decorative sea wall installed along State Road A1A between M.P. 3.248 and M.P. 4.322

- 1) The **AGENCY** shall be solely responsible for the maintenance and preservation of all colored coatings on light pole assemblies within the limits of construction. The **AGENCY** shall inspect the colored coatings on a yearly basis. All Maintenance or restoration activities shall be performed in accordance with a Maintenance Plan, as approved by the **DEPARTMENT**, as per the requirements in **Exhibit B**.
- 2) The above named functions to be performed by the **AGENCY** may be subject to periodic inspections by the **DEPARTMENT** at the discretion of the **DEPARTMENT**. Such inspection findings will be shared with the **AGENCY** and shall be the basis of all decisions regarding, reworking or AGREEMENT termination. The **AGENCY** shall not change or deviate from said plans without written approval of the **DEPARTMENT**.
- 3) The **AGENCY** shall be solely responsible for any damages to surrounding property, real estate, vehicles, pedestrians, attachments to the light poles, or other assets occurring as a result of coating operations and shall repair such damage to the satisfaction of the **DEPARTMENT** at no expense to the **DEPARTMENT**
- 4) 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 the sea turtle nesting and hatching.
- 5) The **AGENCY** shall maintain the decorative sea wall installed along the east side of State Road A1A such that it is structurally stable and capable of supporting the expected loads which includes, but is not limited to, pedestrians, wind, and sand. Cracks shall be repaired and graffiti shall be removed from the sea wall in a timely manner. If the sea wall is damaged such that any portion is not structurally stable or presents a safety hazard to the public, it shall be repaired to a safe condition in a timely manner.

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

C. 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

AND

2) The **AGENCY** shall become responsible for the above named ongoing utility costs upon final acceptance of the construction project (including the improvements) by the **DEPARTMENT** and thereafter. The project is accepted prior to the start of the Plant Establishment and Contractor's Warranty Period.

AND

3) The **AGENCY** shall be responsible for the improvements immediately after final acceptance of the construction project by the **DEPARTMENT** except for the plant materials. The **AGENCY** shall be responsible for the maintenance of all improvements after the completion of the Contractor's Warranty Period.

D. 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, repayment, reworking or Agreement termination.

E. Any work impacting traffic flow on SR-A1A 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 thirty (30) 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.
- 3) Only if mutually agreed to by both parties 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 Fifty (50) years.

9. LIABILITY AND INSURANCE REQUIREMENTS

A. With respect to any of the **AGENCY'S** agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for the improvements

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

- B. In the event that **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** during the term of the contract; 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. 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 Landscape Memorandum of Agreement(s) signed between the parties, as amended, as to all other improvements not specifically mentioned in this Agreement.

12. The **DEPARTMENT**, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and

no money may be paid on such contract. The **DEPARTMENT** shall require a statement from the Comptroller of the **DEPARTMENT** that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one (1) year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the **DEPARTMENT** which are for an amount in excess of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

13. **DISPUTES**

The **DEPARTMENT'S** District Secretary shall decide all questions, difficulties and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof; 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. Venue with respect to judicial proceedings arising out of this Agreement shall be in Broward County, Florida.

16. **NOTICES**

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

If to the **DEPARTMENT**:

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

If to the **AGENCY**:

City of Fort Lauderdale
100 N. Andrews Avenue
Fort Lauderdale, FL 33301
Attention: Lee R. Feldman
Title: City Manager

17. **LIST OF EXHIBITS**

Exhibit A: Project Location and Description
Exhibit B: Maintenance Plan Requirements
Exhibit C: Construction Plans

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

WITNESSES:

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

By _____
JOHN P. "JACK" SEILER, Mayor

Witness Print Name

By _____
LEE R. FELDMAN, City Manager

Witness Print Name

(CORPORATE SEAL)

ATTEST:

JONDA K. JOSEPH, City Clerk

Approved as to form:

CARRIE L. SARVER
Assistant City Attorney

DEPARTMENT:

ATTEST:

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

Executive Secretary
(SEAL)

By _____
Courtney Drummond, P.E., Director of Operations

Approval as to Form:

By _____
Dawn Raduano, District General Counsel

SECTION NO.: 86050
FM No.(s): 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT A

PROJECT LOCATION AND DESCRIPTION

Location:

The improvements associated with this agreement are located in Broward County along State Road A1A from limits of construction beginning at the decorative sea wall located at NE 9th Street, from Center Line (CL) Station (Sta.) 608+90.00 Mile Post (M.P.) 3.248 to end decorative sea wall at just north of NE 18th Street (CL Sta. 665+60.00 M.P. 4.322).

Description of Work:

Installation of decorative sea wall on east side of State Road A1A (beginning from CL Sta. 608+90.00 M.P. 3.248 to end CL Sta. 665+60.00 M.P. 4.322), LED string lights and fiber-optic system servicing the decorative sea wall on the east side of State Road A1A (beginning from CL Sta. 609+16.00 M.P. 3.253 to end CL Sta. 665+60.00 M.P. 4.322) and colored coated decorative lighting installed on the east and west side of State Road A1A beginning from CL Sta. 609+75.00 M.P. 3.264 (East side) and CL Sta. 619+15.00 M.P. 3.442 (West side) to end just south of NE 18th St. CL Sta. 664+51.00 M.P. 4.301 (East side) and end CL Sta. 664+91.00 M.P. 4.309 (West side).

It will be the responsibility of the **AGENCY** to maintain the features described in this agreement.

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EXHIBIT B

MAINTENANCE PLAN REQUIREMENTS

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

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

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

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

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EXHIBIT C

Construction plans by Florida Department of Transportation In-House Design Section 2 dated December 4, 2013 as approved by the Department.

CONSTRUCTION PLANS (attached)

Sheets Included:

PDF Page Number (#)	Plan Sheet (#)	Sheet(s) Description
12	1	Roadway Key Sheet
13 thru 24	16 thru 27	Roadway Plan Sheets
25 thru 44	L-1 thru L-20	Lighting Component
45 thru 66	BW-1 to BW-22	Structures Component

[The remainder of this page intentionally left blank.]

COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- ~~SIGNING AND PAVEMENT MARKING PLANS~~
- ~~SIGNALIZATION PLANS~~
- LIGHTING PLANS
- ~~LANDSCAPE PLANS~~
- STRUCTURES PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-4	SUMMARY OF PAY ITEMS
5-7	DRAINAGE MAP
8-9	TYPICAL SECTION
10-11	SUMMARY OF QUANTITIES
12-13	SUMMARY OF DRAINAGE STRUCTURES
14	OPTIONAL MATERIALS TABULATION
15	GENERAL NOTES AND PAY ITEM NOTES
16-27	PLAN
28-29	INTERSECTION DETAILS
30-34	PROFILE
35-52	DRAINAGE STRUCTURES
53	DRAINAGE DETAILS
54-103	CROSS SECTIONS
104-106	STORMWATER POLLUTION PREVENTION PLAN
107	TRAFFIC CONTROL PLAN GENERAL NOTES
108-183	TRAFFIC CONTROL PLAN
184-195	UTILITY ADJUSTMENTS
GR-1	ROADWAY SOIL SURVEY
GR-2 - GR-3	REPORT OF CORE BORINGS
GR-4 - GR-6	REPORT OF SPT BORINGS
CTL-1 - CTL-3	PROJECT SURVEY CONTROL
UTV-1 - UTV-3	VERIFIED UTILITY LOCATE
UTV-4	SUMMARY OF VERIFIED UTILITIES

— Not included in Exhibit C

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Transportation, 2014 Design Standards and revised Index Drawings as appended herein, and 2014 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
<http://www.dot.state.fl.us/rddesign/>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specificationsoffice/>

REVISIONS

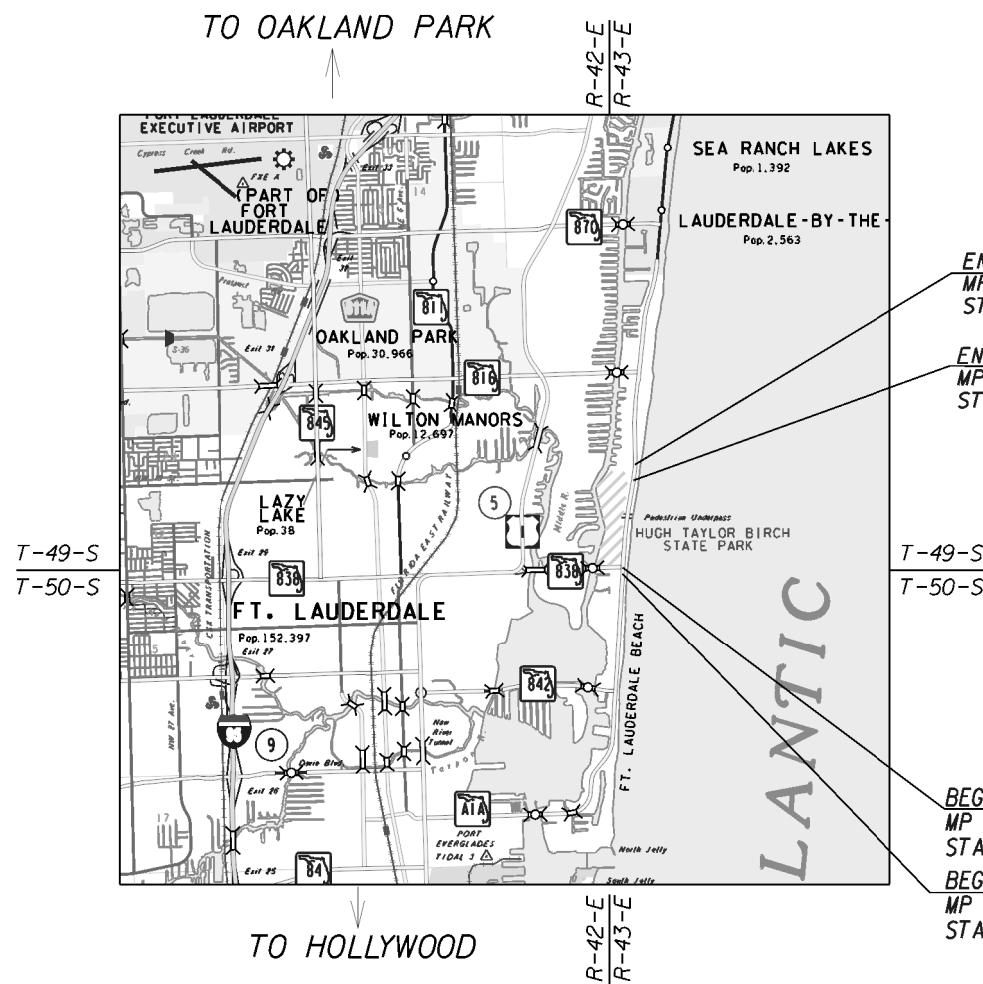
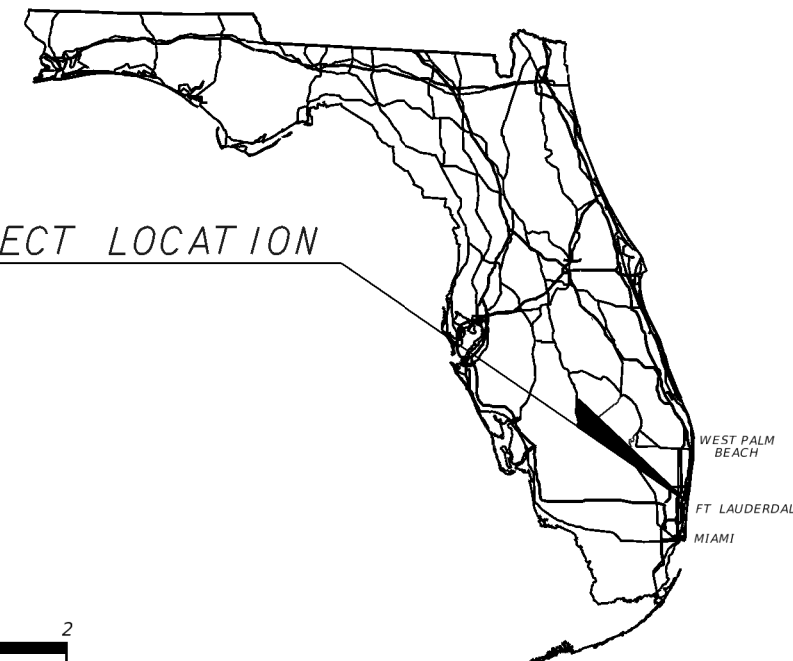
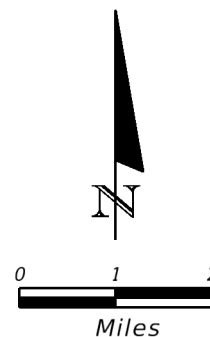
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SUBJECT TO REVISION

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 433688-4-52-01
 BROWARD COUNTY (86050)
 STATE ROAD A1A

PROJECT LOCATION



END CONSTRUCTION
 MP. 4.438
 STA 671+75.00

END PROJECT
 MP. 4.322
 STA 665+60.00

BEGIN PROJECT
 MP 3.334
 STA 613+42.69
BEGIN CONSTRUCTION
 MP 3.248
 STA 608+90.00

ROADWAY SHOP DRAWINGS
 TO BE SUBMITTED TO:
 MORAYMA OCHOA
 DISTRICT IV STRUCTURES OFFICE
 3400 WEST COMMERCIAL BLVD.
 FORT LAUDERDALE, FL 33309

PLANS PREPARED BY:
 DESIGN SECTION 2
 3400 WEST COMMERCIAL BLVD.
 FT. LAUDERDALE, FL 33309

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

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	5,217.31	0.988
BRIDGES	N/A	N/A
NET LENGTH OF PROJECT	5,217.31	0.988
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	5,217.31	0.988

KEY SHEET REVISIONS

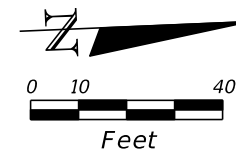
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ROADWAY PLANS
 ENGINEER OF RECORD: SCOTT PETERSON, P.E.

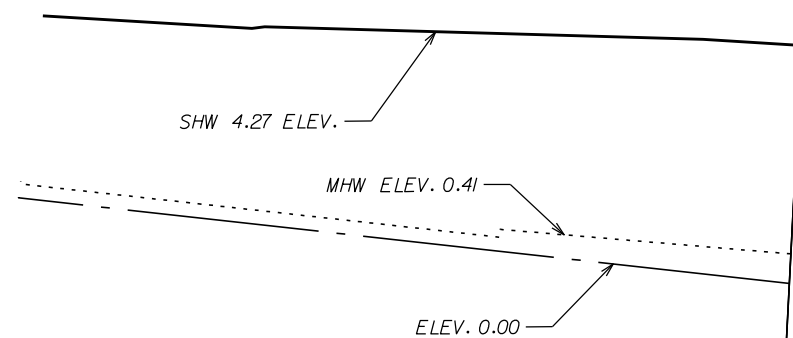
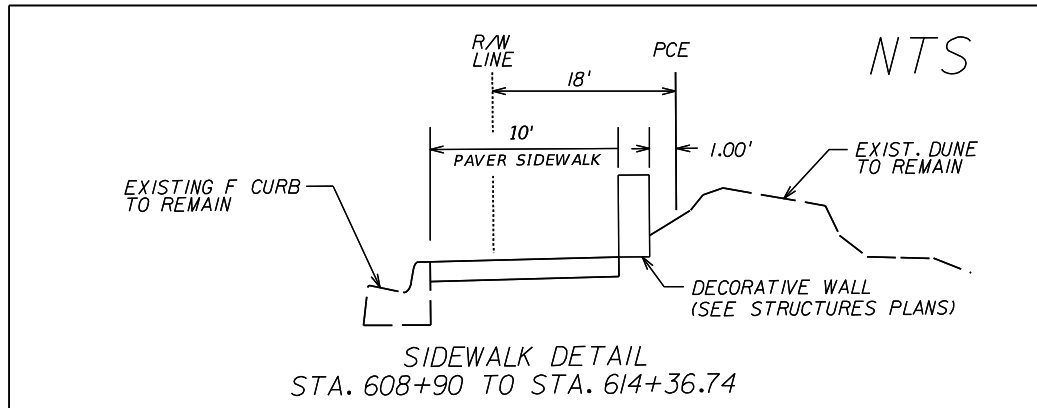
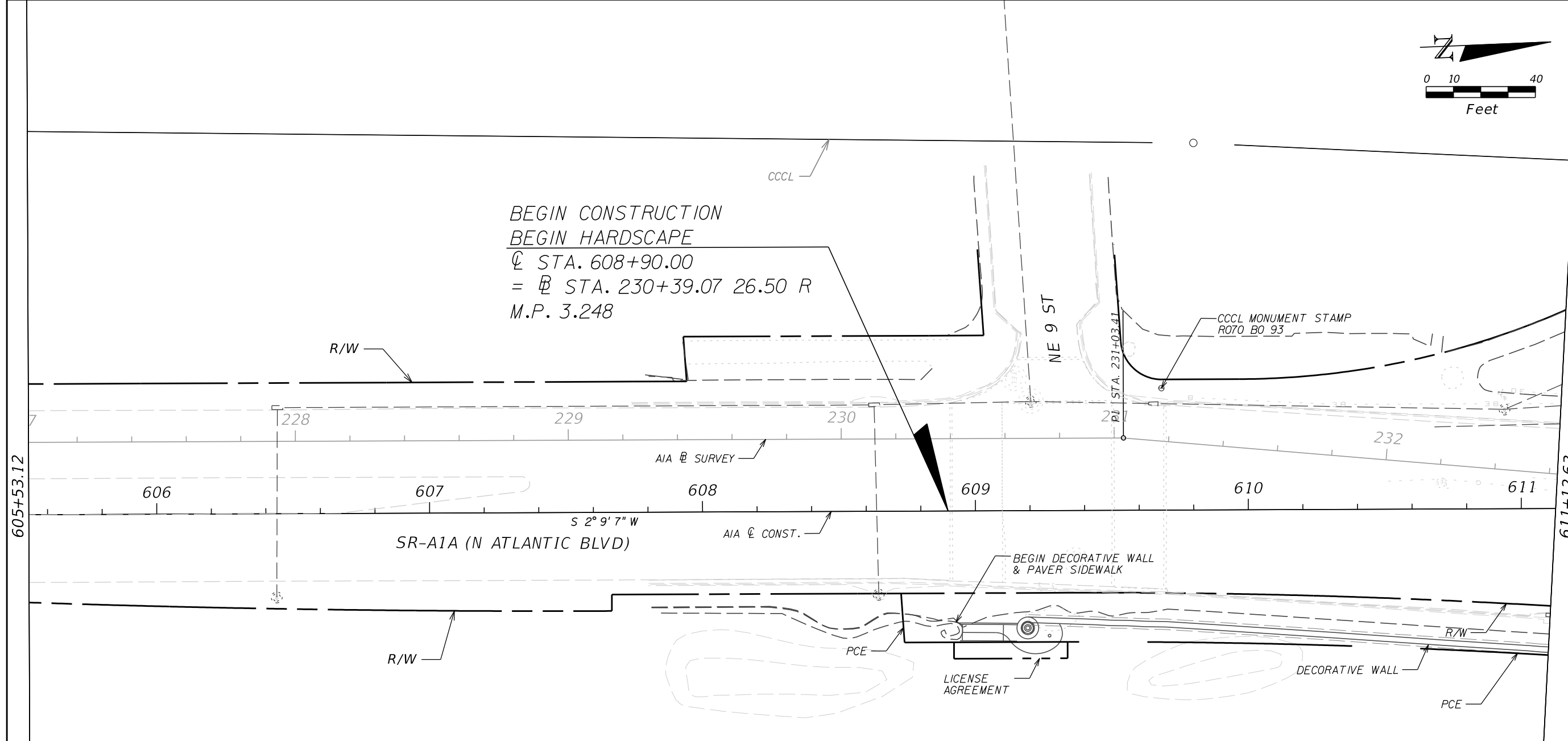
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FDOT PROJECT MANAGER: SCOTT PETERSON, P.E.

FISCAL YEAR	SHEET NO.
CAM #14-0011	1
EXHIBIT	1
Page 12 of 66	

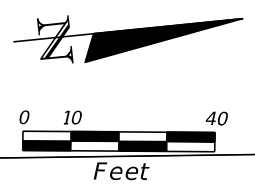
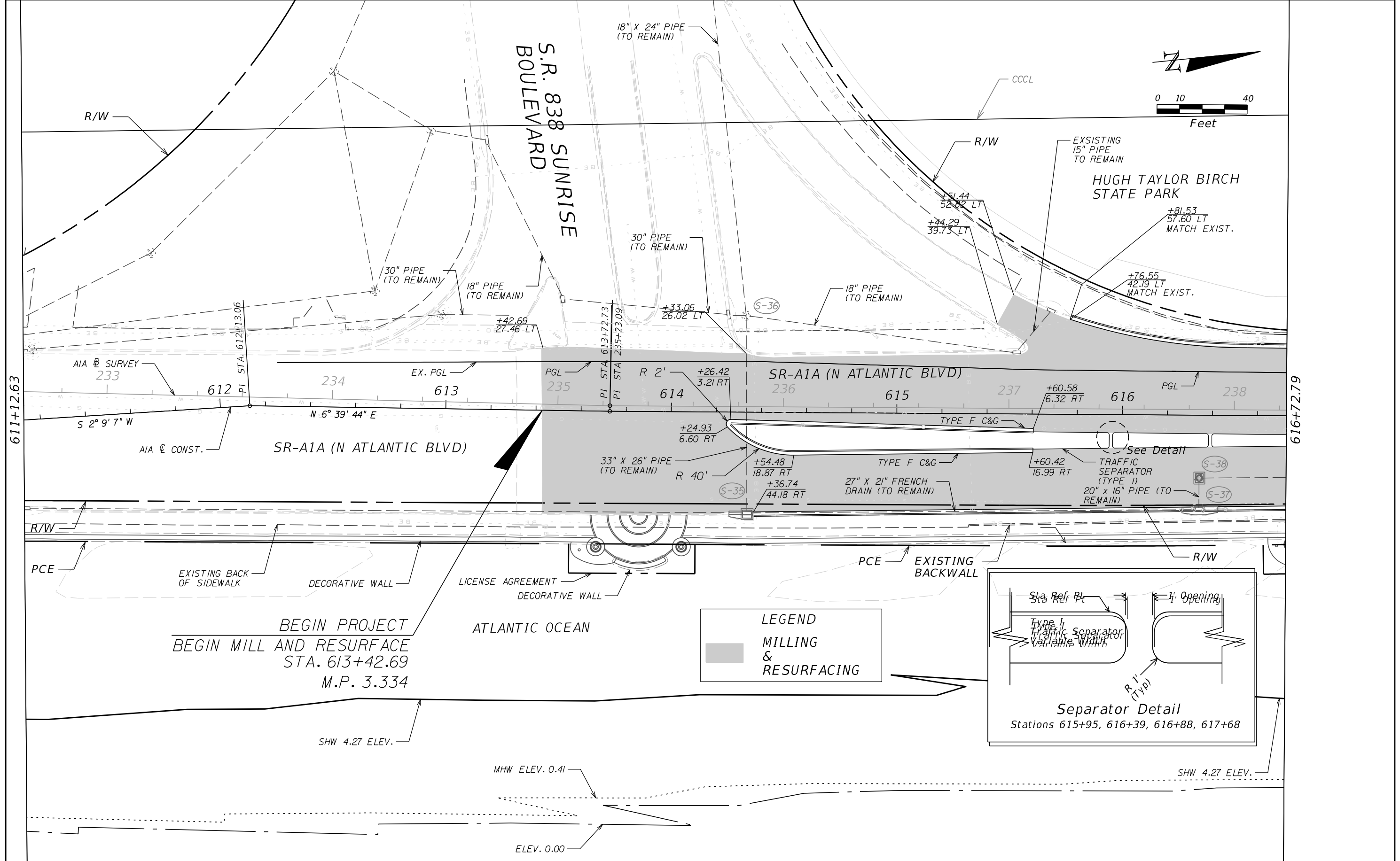


BEGIN CONSTRUCTION
 BEGIN HARDSCAPE
 CL STA. 608+90.00
 = CL STA. 230+39.07 26.50 R
 M.P. 3.248



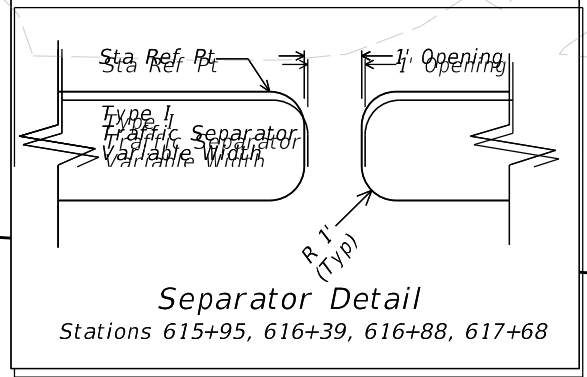
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				AIA	BROWARD	433688-4-52-01	CAM #14-0011 EXHIBIT 16 Page 13 of 66	

PLAN



BEGIN PROJECT
 BEGIN MILL AND RESURFACE
 STA. 613+42.69
 M.P. 3.334

LEGEND
 MILLING
 &
 RESURFACING



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

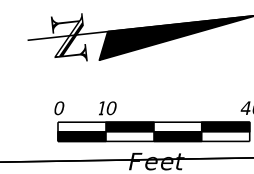
ENGINEER OF RECORD: SCOTT PETERSON, P.E.
 P.E. LICENSE NUMBER 52740
 FDOT DISTRICT IV
 3400 WEST COMMERCIAL BLVD.
 FORT LAUDERDALE, FL 33309
 (954) 777-4416
 scott.peterson@dot.state.fl.us

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
AIA	BROWARD	433688-4-52-01

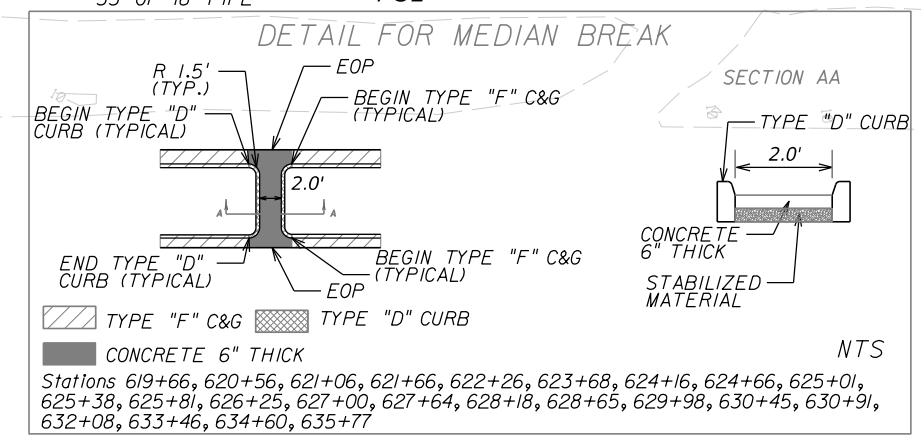
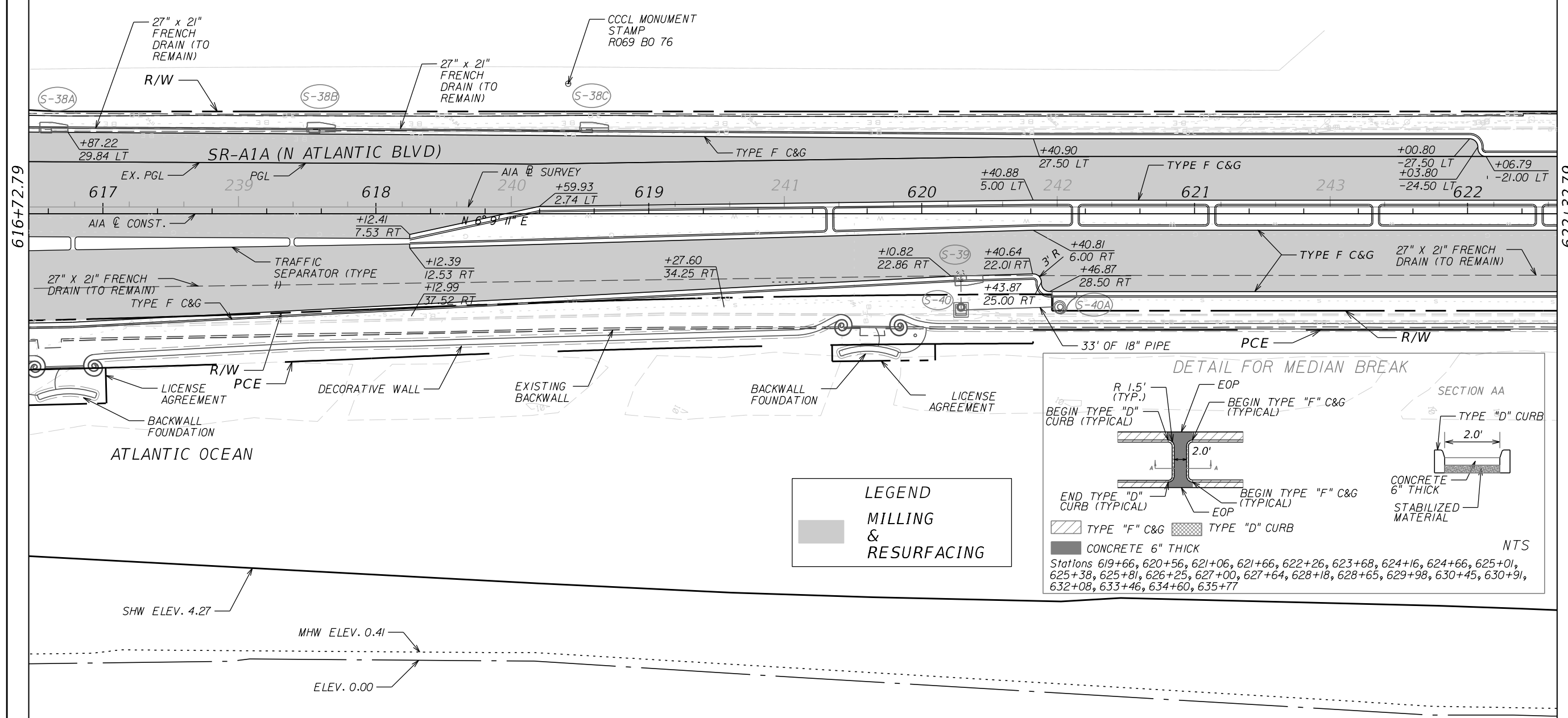
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SHEET NO. 17

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EXHIBIT 17
Page 14 of 66



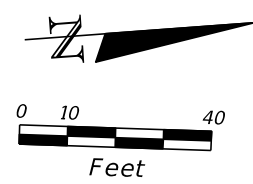
HUGH TAYLOR BIRCH STATE PARK



REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

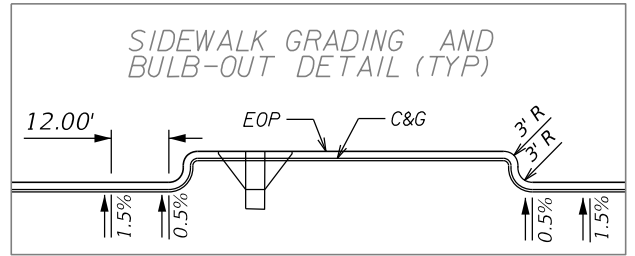
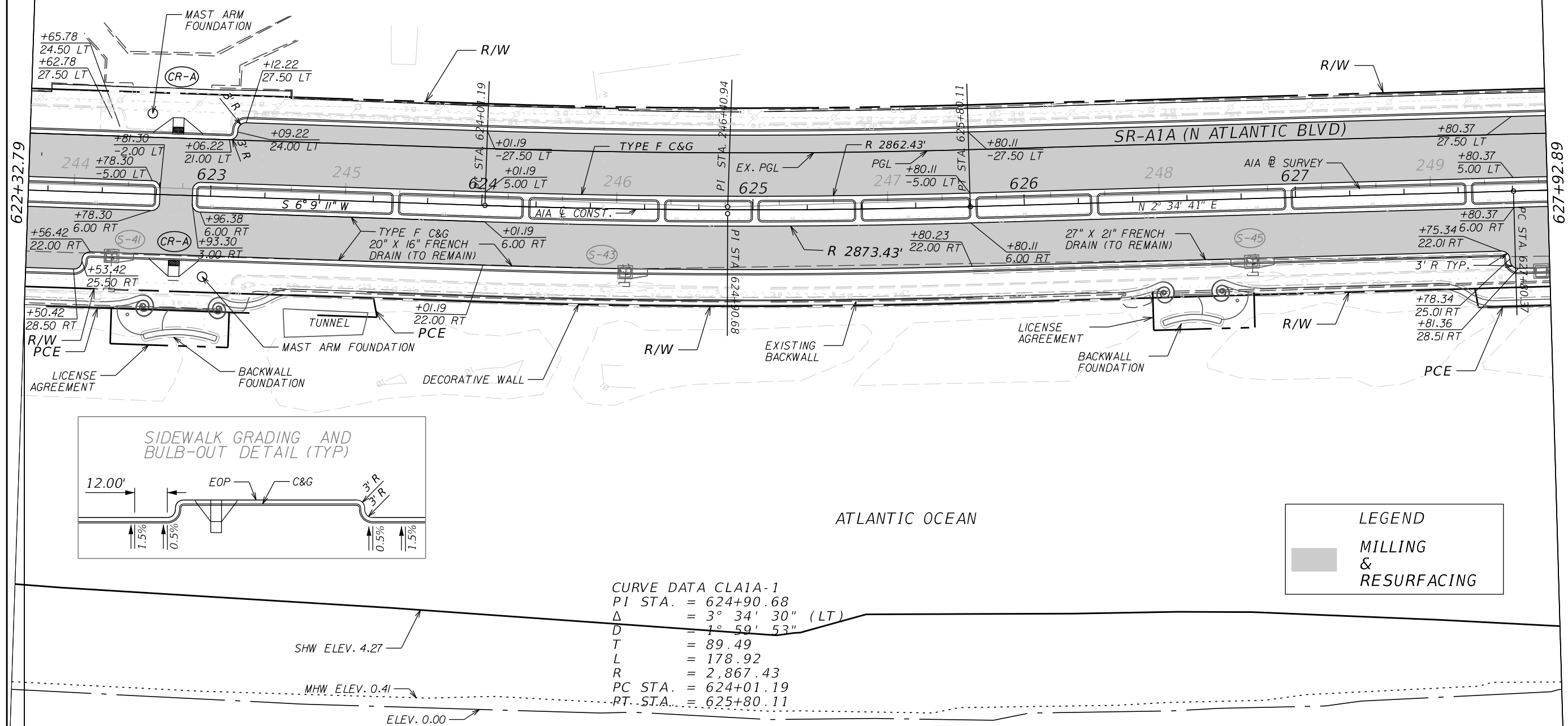
PLAN

CAM #14-0011
 EXHIBIT 18
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HUGH TAYLOR BIRCH STATE PARK

PARK ENTRANCE



CURVE DATA CLA1A-1
 PI STA. = 624+90.68
 Δ = 3° 34' 30" (LT)
 D = 1° 59' 53"
 T = 89.49
 L = 178.92
 R = 2,867.43
 PC STA. = 624+01.19
 PT STA. = 625+80.11

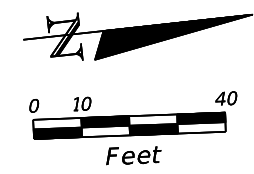
LEGEND

MILLING & RESURFACING

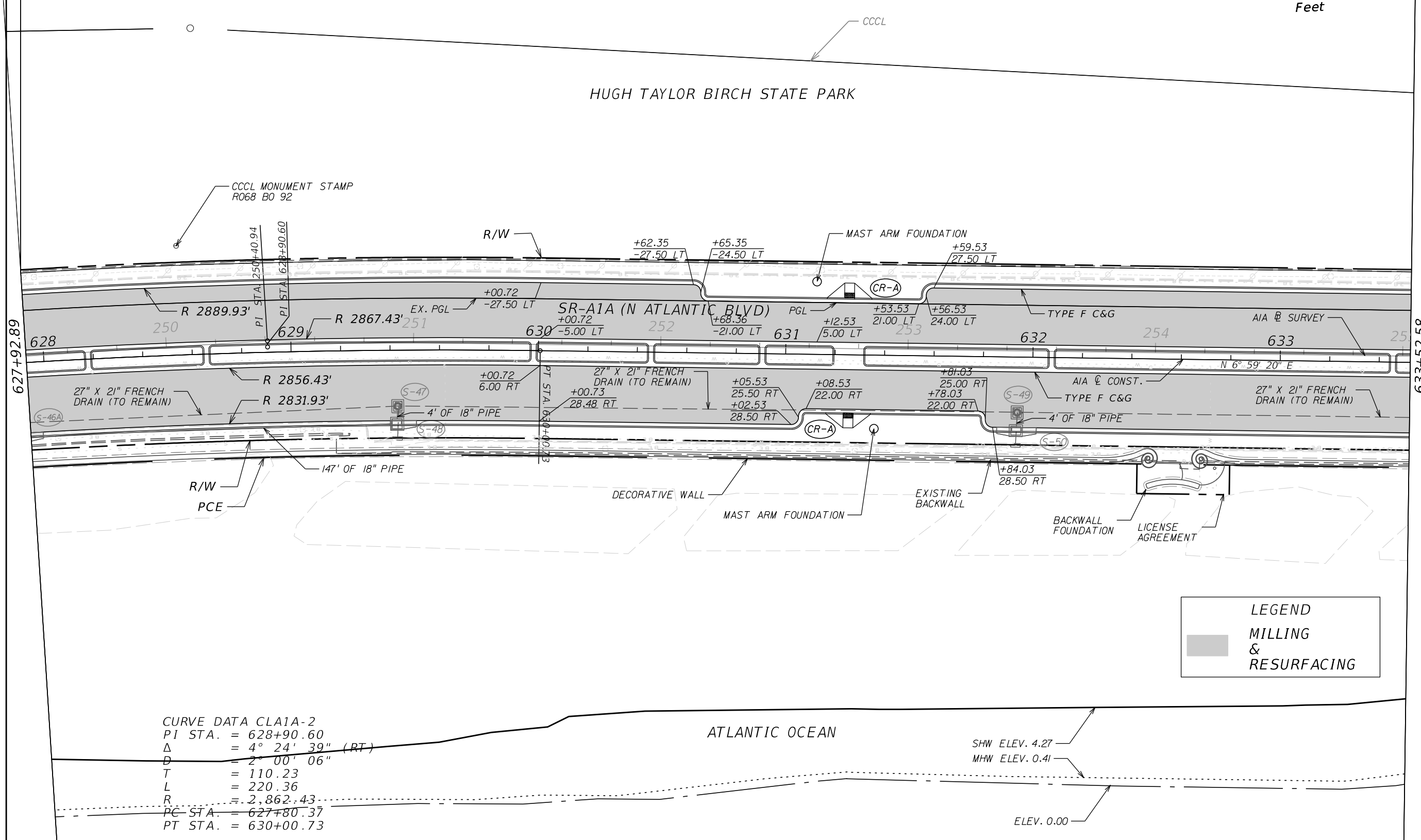
REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

PLAN

CAM #14-0011
EXHIBIT 19
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HUGH TAYLOR BIRCH STATE PARK

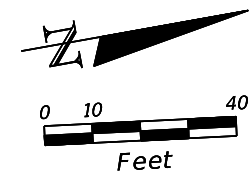


CURVE DATA CLA1A-2
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 Δ = 4° 24' 39" (RT)
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 R = 2,862.43
 PC STA. = 627+80.37
 PT STA. = 630+00.73

LEGEND

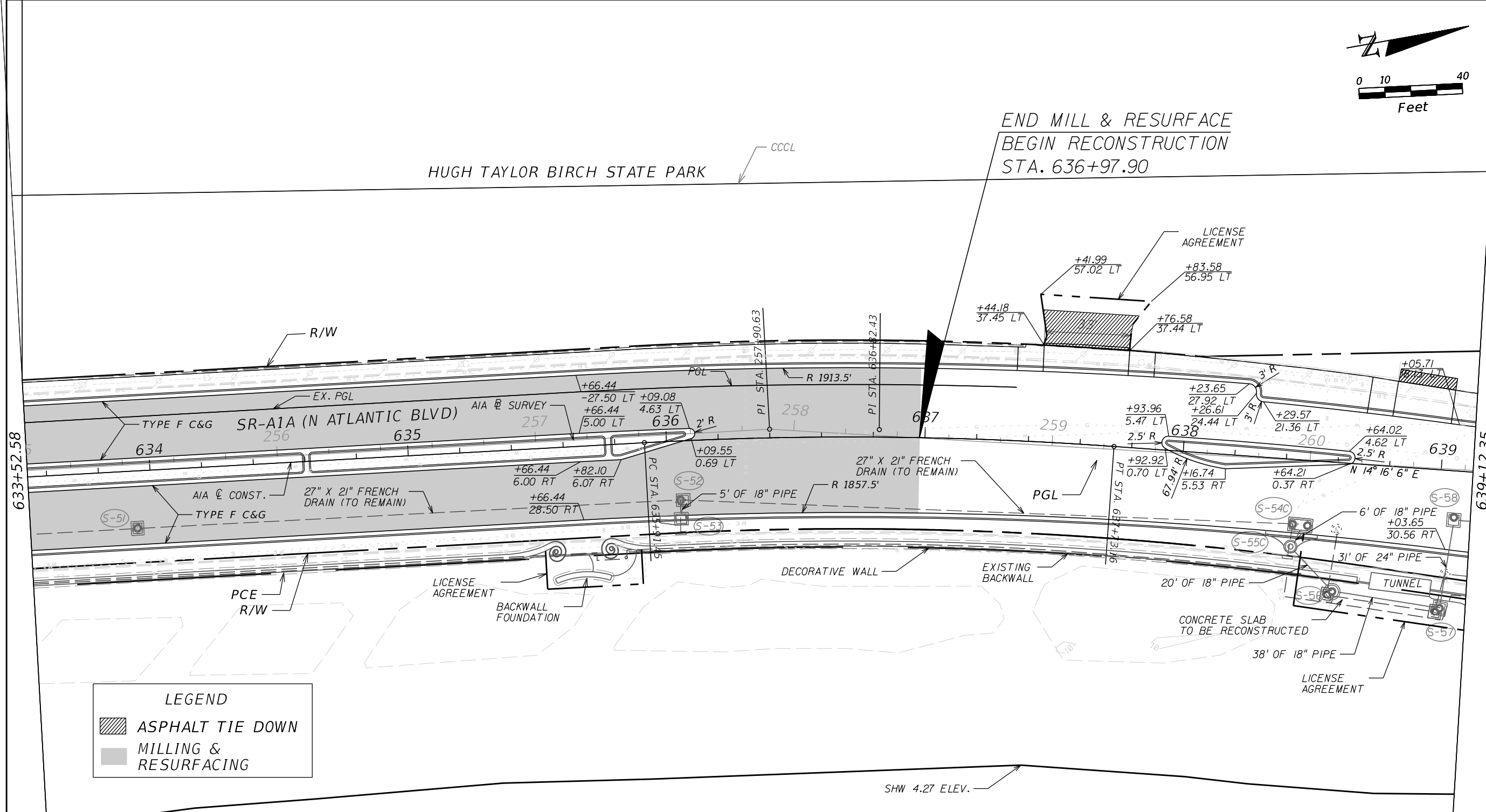
MILLING & RESURFACING

REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN	SHEET NO. 20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				AIA	BROWARD	433688-4-52-01			



HUGH TAYLOR BIRCH STATE PARK

END MILL & RESURFACE
BEGIN RECONSTRUCTION
STA. 636+97.90

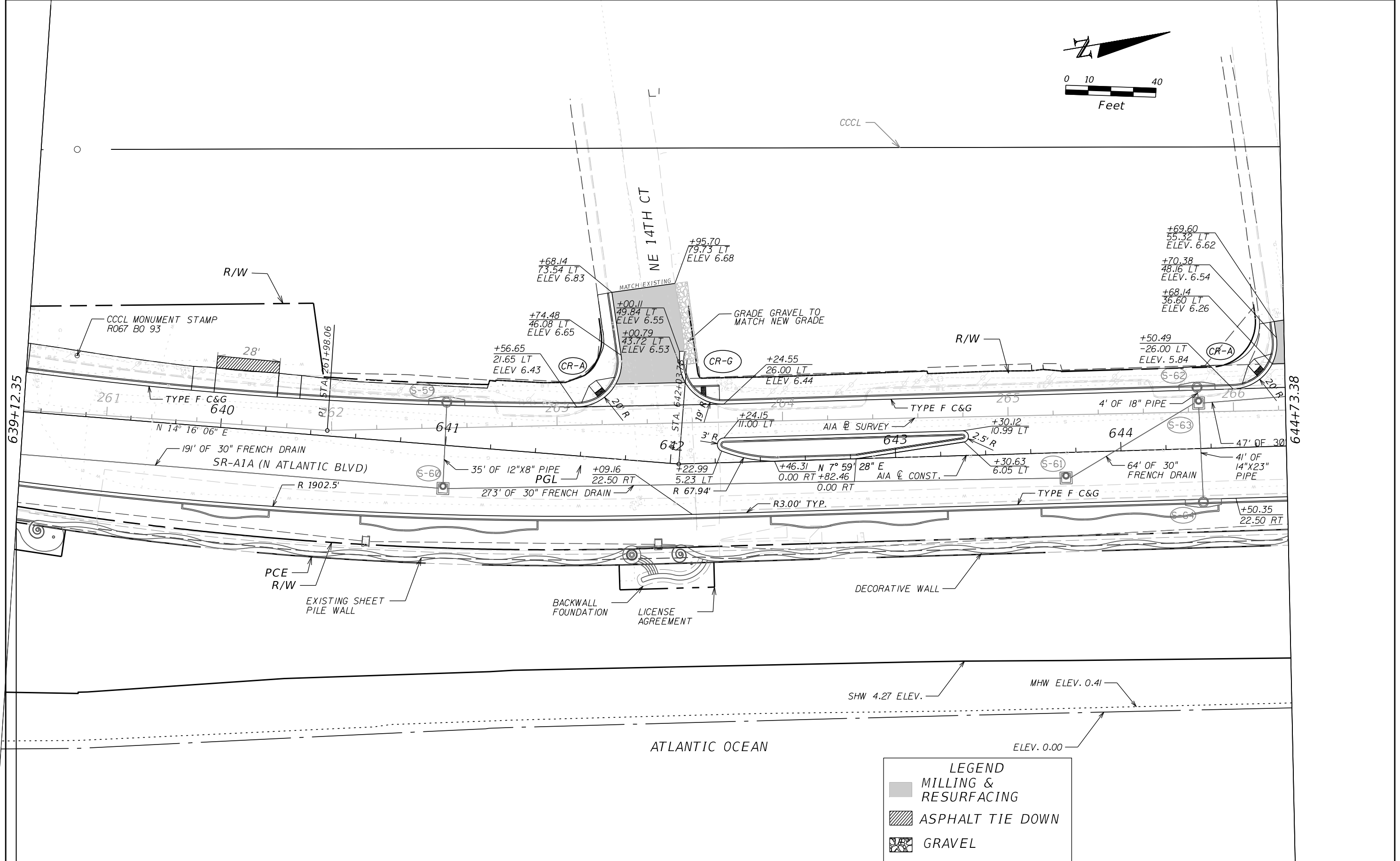
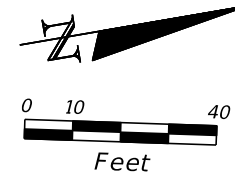


LEGEND

- ASPHALT TIE DOWN
- MILLING & RESURFACING

CURVE DATA CL1A-3
 PI STA. = 636+82.43
 Δ = 7° 16' 47" (RT)
 D = 4° 00' 22"
 T = 90.98
 L = 181.71
 R = 1,430.20
 PC STA. = 635+91.45
 PT STA. = 637+73.16

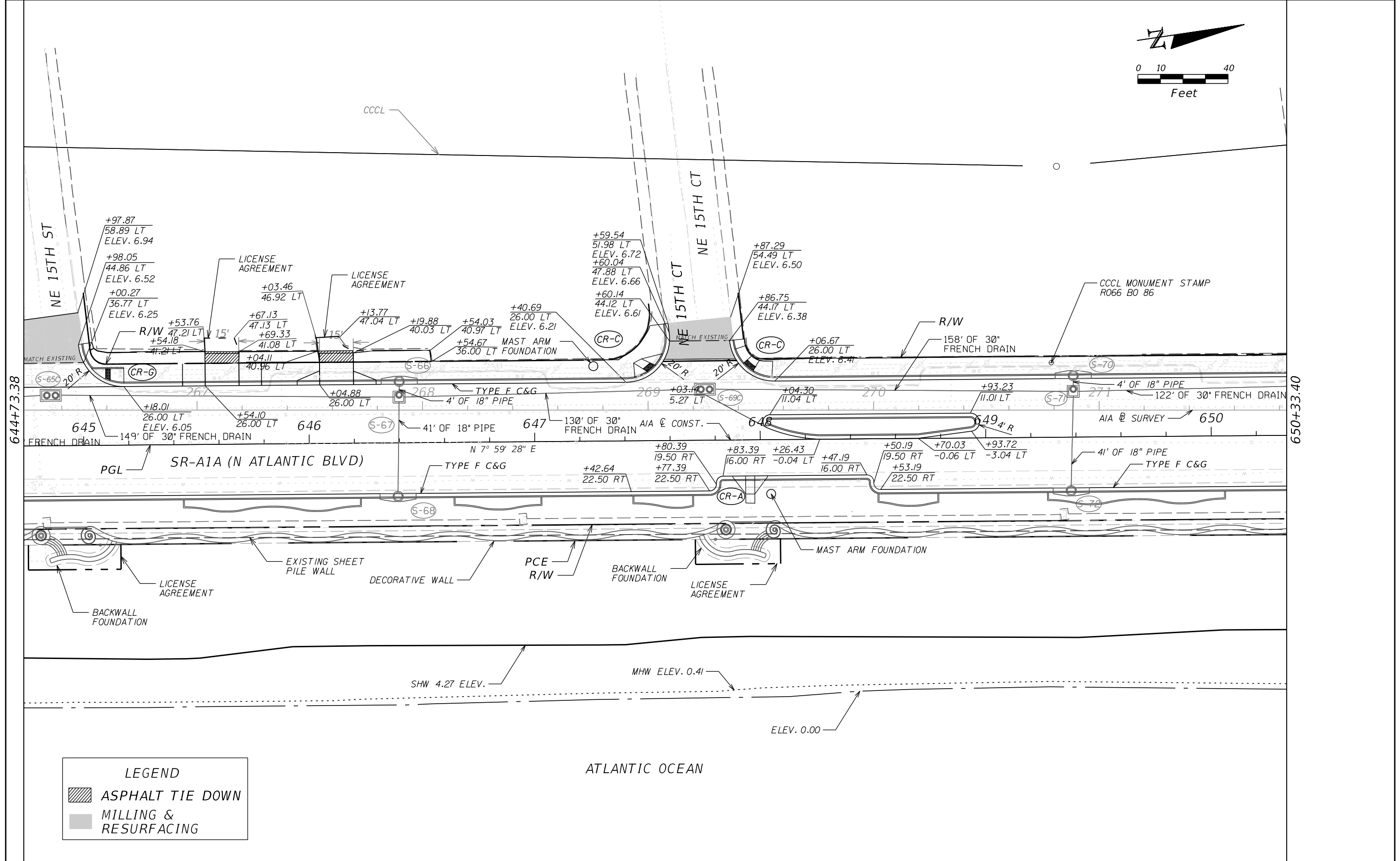
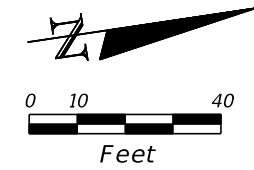
REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN	SHEET NO. 21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				AIA	BROWARD	433688-4-52-01	CAM #14-0011 EXHIBIT 21 Page 18 of 66		



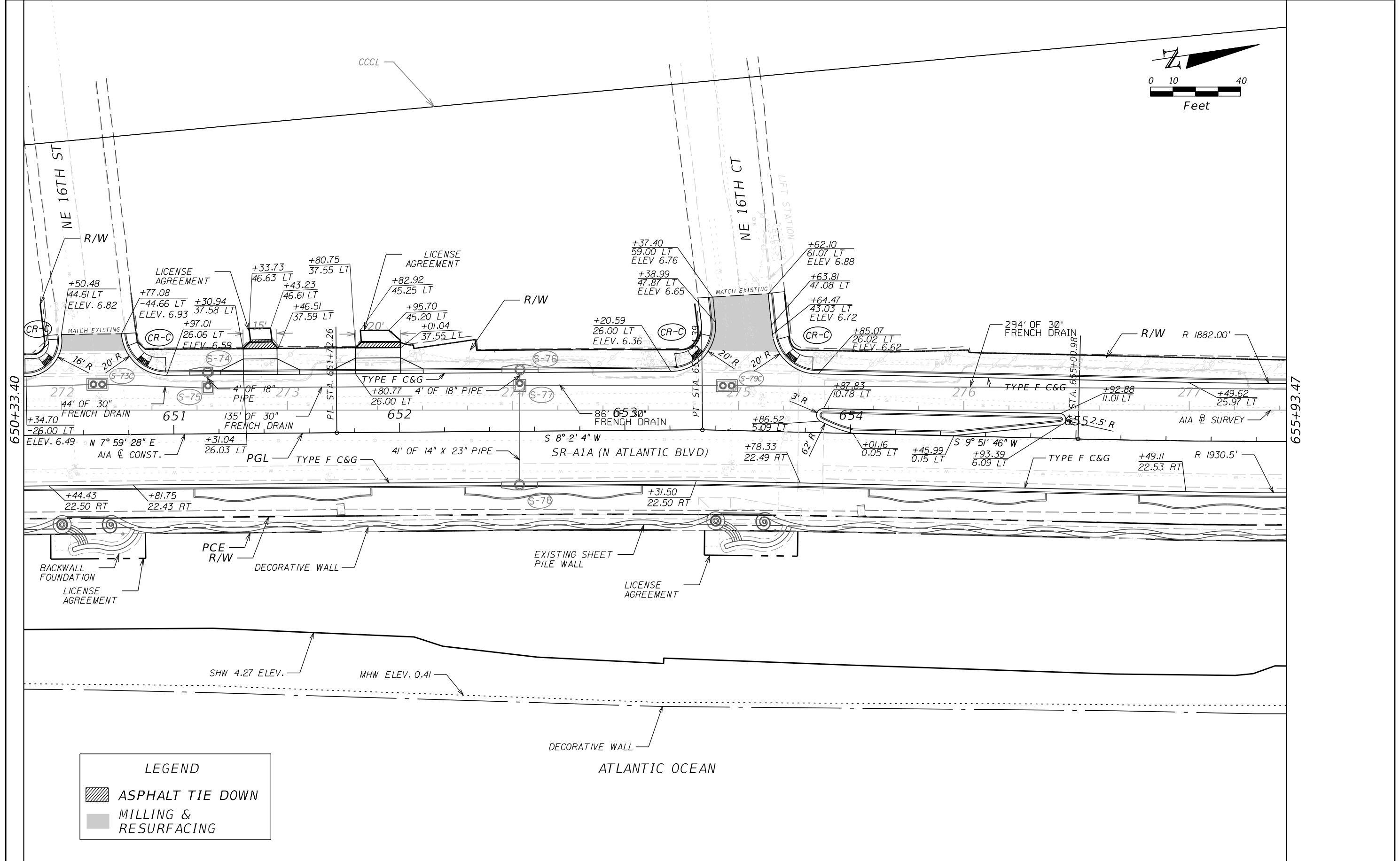
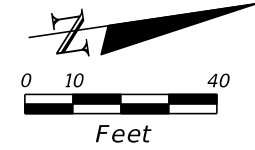
LEGEND

- MILLING & RESURFACING
- ASPHALT TIE DOWN
- GRAVEL

REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN	SHEET NO. 22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					AIA	BROWARD	433688-4-52-01	CAM #14-0011 EXHIBIT 22 Page 19 of 66	



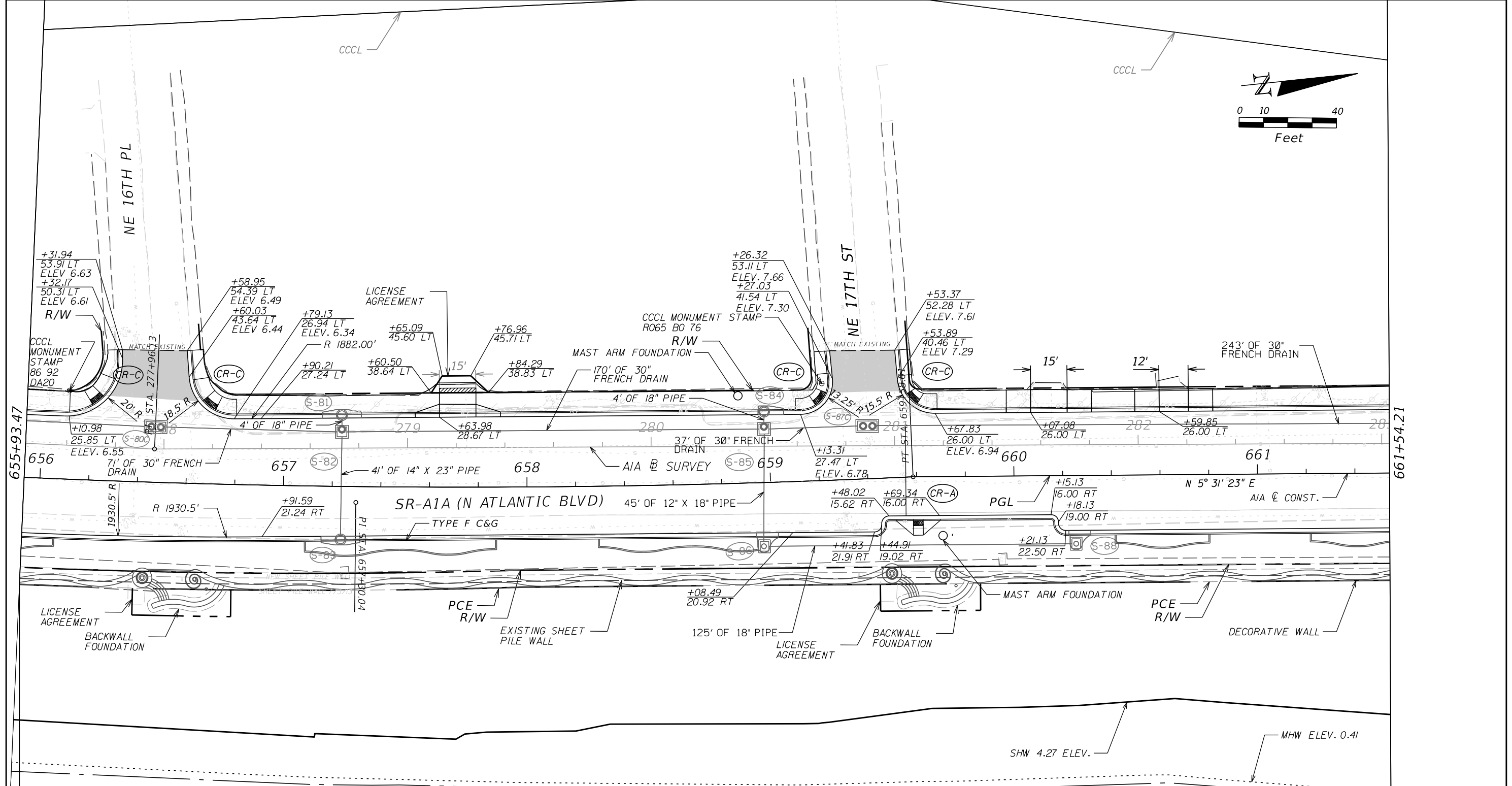
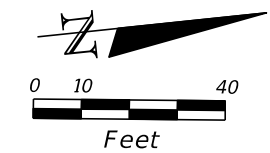
REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					AIA	BROWARD	433688-4-52-01	PLAN CAM #14-0011 EXHIBIT 23 Page 20 of 66



LEGEND	
	ASPHALT TIE DOWN
	MILLING & RESURFACING

REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				AIA	BROWARD	433688-4-52-01	CAM #14-0011 EXHIBIT 24 Page 21 of 66	

PLAN



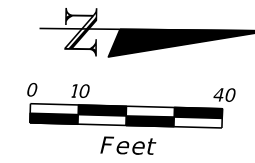
CURVE DATA CL1A1A-4
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 PC STA. = 655+00.98
 PT STA. = 659+58.61

ATLANTIC OCEAN

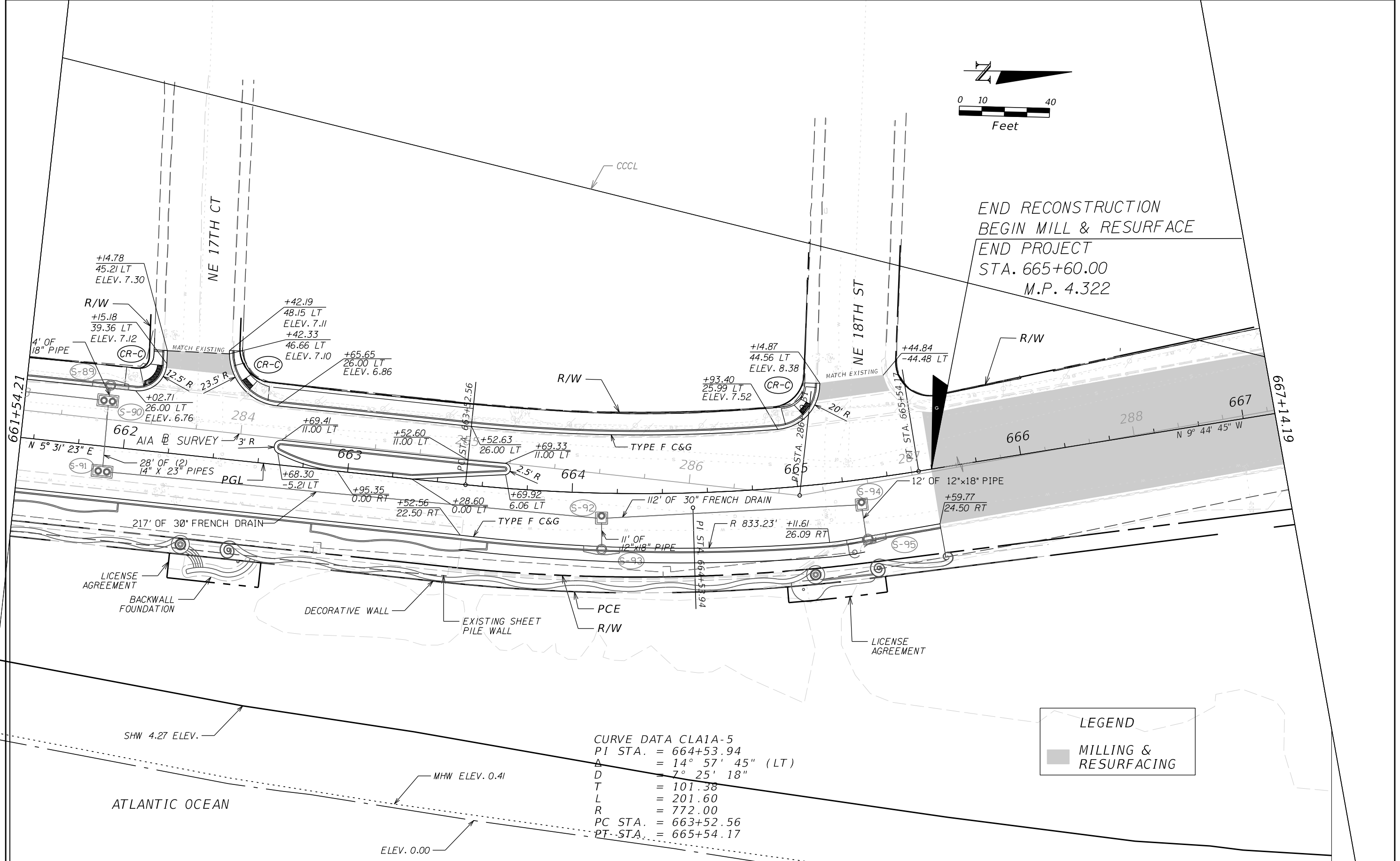
LEGEND
 ■ MILLING & RESURFACING

REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				AIA	BROWARD	433688-4-52-01	CAM #14-0011 EXHIBIT 1 Page 22 of 66	

PLAN



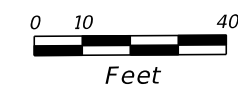
END RECONSTRUCTION
 BEGIN MILL & RESURFACE
 END PROJECT
 STA. 665+60.00
 M.P. 4.322



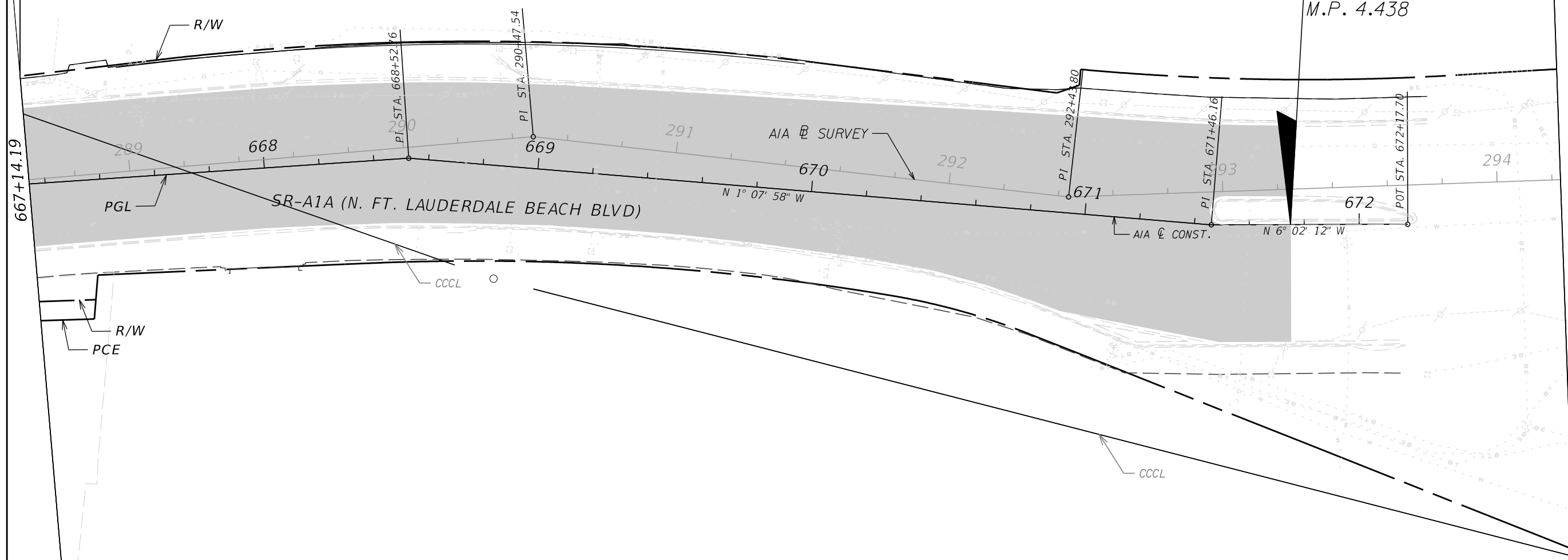
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 L = 201.60
 R = 772.00
 PC STA. = 663+52.56
 PT STA. = 665+54.17

LEGEND	
	MILLING & RESURFACING

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS		DATE	DESCRIPTION			ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>AIA</td> <td>BROWARD</td> <td>433688-4-52-01</td> </tr> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	AIA	BROWARD	433688-4-52-01	SHEET NO. 26 CAM #14-0011 EXHIBIT Page 23 of 66	
REVISIONS																					
DATE	DESCRIPTION																				
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																			
AIA	BROWARD	433688-4-52-01																			
PLAN																					



END MILL & RESURFACE
 END CONSTRUCTION
 STA. 671+75.00
 M.P. 4.438



CCCL MONUMENT STAMP
 R064 BO 93

LEGEND

■ MILLING & RESURFACING

REVISIONS				ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				AIA	BROWARD	433688-4-52-01	CAM #14-0011 EXHIBIT 27 Page 24 of 66	

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

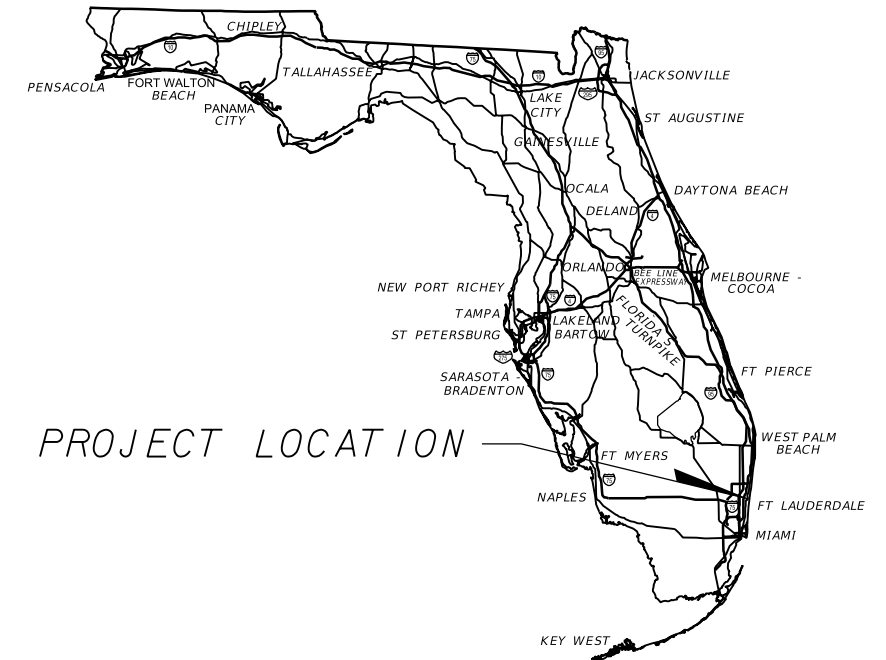
CONTRACT PLANS

FINANCIAL PROJECT ID 433688-4-52-01

BROWARD COUNTY (86050)

STATE ROAD NO. A1A

LIGHTING PLANS



PROJECT LOCATION

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	GENERAL NOTES
L-4	POLE DATA AND LEGEND
L-5 Thru L-15	LIGHTING PLAN
L-16	UTILITY CONFLICT MATRIX
L-17	LIGHT POLE DETAILS
L-18	SPECIAL WALL / POLE CONFLICT FOOTING DETAIL
L-19	SERVICE POINT DETAILS
L-20	SEA WALL LED STRIP LIGHTING DETAILS

LIGHTING SHOP DRAWINGS
TO BE SUBMITTED TO:

NISAR M. KHAN, PE
ERDMAN ANTHONY OF FLORIDA, INC.
1402 ROYAL PALM BEACH, SUITE 500
ROYAL PALM BEACH, FL. 33411

PLANS PREPARED BY:

ERDMAN ANTHONY OF FLORIDA, INC.
1402 ROYAL PALM BEACH, SUITE 500
ROYAL PALM BEACH, FL. 33411
561-753-9723
CONTRACT NO. C8Z89
VENDOR NO. 20-0930234
CERTIFICATE OF AUTHORIZATION #25912

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

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LIGHTING PLANS
ENGINEER OF RECORD: NISAR M. KHAN, P.E.

P.E. NO.: 61004

FISCAL YEAR	SHEET NO.
14	L-1

FDOT PROJECT MANAGER: SCOTT PETERSON, P.E.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET		
			L-5		L-6		L-7		L-8		L-9		L-10		L-11		L-12		L-13		L-14		L-15		PLAN	FINAL		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL							
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	158		757		1910		1777		1907		1889		1917		2044		1950		1706		1112		17127		17127		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	0		0		88		0		80		0		23		142		214		86		147		778		778		
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	LF	196		523		531		522		601		536		564		529		535		531		384		5453		5453		
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	LF	227		564		592		582		598		572		590		593		586		589		444		5938		5938		
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	EA	0		1		10		8		11		8		12		17		21		18		13		119		119		
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	LF	569		1765		1941		1764		1992		1954		1829		2007		2011		1786		1472		19091		19091		
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	LF	600		2209		5888		3989		5691		4722		5295		5913		6801		5155		4592		50856		50856		
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO.4 TO NO.2	LF	0		0		0		0		744		788		0		0		0		0		0		1532		1532		
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	0		0		0		0		0		131		1283		1190		473		1060		551		4688		4688		
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	EA	2		8		12		15		15		15		15		15		16		15		10		138		138		
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	0		0		1		0		1		0		0		0		1		0		1		4		4		
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	EA	3		9		10		9		9		9		9		10		9		9		8		94		94		

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<h2 style="margin: 0;">TABULATION OF QUANTITIES</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		CAM #14-0011 EXHIBIT 1
					A1A	BROWARD	433688-4-52-01		

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO ANY UNDERGROUND WORK. THE UTILITY COMPANY WILL LOCATE AND IDENTIFY THEIR FACILITIES.
 UTILITY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBER
AT&T FLORIDA	OTIS KEEVE	954-723-2540
BROWARD CO. - TRAFFIC DIVISION	SHARON GROSS	954-847-2641
BROWARD CO. - WATER & WASTEWATER	DAVID J. O'CONNOR	954-831-0910
CITY OF COCONUT CREEK	RAJ VERMA	954-973-6786
CITY OF MARGATE	SAM MAY	954-972-8126
COMCAST	LEONARD MAXWELL-NEWBOLD	954-447-8405
FPL DISTRIBUTION	BYRON SAMPLE	954-321-2056
FPL TRANSMISSION	TAMEKA AUGUSTIN	407-838-7000
FLORIDA GAS TRANSMISSION	JOSEPH SANCHEZ	954-453-0805
TECO PEOPLES GAS	MAX CHAMORRO	954-453-0812
2. MAINTAINING AGENCIES ARE THE CITY OF FORT LAUDERDALE - SCOTT SUNDERMEIER (954-828-5262).
3. ALL CONNECTIONS SHALL BE MADE IN THE PULL BOX NEXT TO THE BASE OF THE LIGHT POLES UTILIZING THE WATERPROOF POLE CABLE DISTRIBUTION SYSTEM. CONNECTION TO THE GROUND ROD INSIDE THE PULL BOX SHALL BE CAD WELDED. ALL OTHER CONNECTIONS SHALL USE APPROVED CABLE CONNECTORS. PCDS SHALL BE 1P-68 RATED.
4. THE LOCATIONS OF THE NEW LIGHT POLES MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND/OR EXISTING UTILITIES.
5. ALL CONDUIT TRENCHES SHALL BE BACK FILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CAN NOT BE BACK FILLED IN THE SAME DAY/NIGHT OPERATION.
6. THE CONTRACTOR SHALL NOTIFY FLORIDA POWER AND LIGHT CO. (FP&L) AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. FLORIDA POWER AND LIGHT CO. (AT IT'S OPTION), MAY ASSIST THE CONTRACTOR, COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE, OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
7. ALL MATERIALS SHALL BE NEW AND "UL" LISTED AS APPLICABLE
8. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LEVEL OF ILLUMINATION ON THE TRAVELED ROADWAY THROUGHOUT CONSTRUCTION AND SHALL COORDINATE REMOVAL WITH INSTALLATION.
9. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH NEW ROADWAY LIGHTING POLE. THESE TAGS SHALL BE COORDINATED WITH THE MAINTAINING AGENCY PRIOR TO ORDERING. IF NO PREFERENCE IS INDICATED BY THE MAINTAINING AGENCY THE CONTRACTOR MAY PROVIDE A TAG AS FOLLOWS: 1" X 6" IN SIZE WITH BLACK LETTERS / NUMBERS ON YELLOW BACKGROUND AND ATTACHED RIVETS (NO SCREWS) & BE MOUNTED VERTICALLY 1' FROM BASE. IDENTIFICATION SHALL INCLUDE THE CIRCUIT AND POLE NUMBERS SHOWN ON THE POLE DATA SHEET. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR POLE COMPLETE.
10. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:
 - A) LUMINAIRE PHOTO METRICS
 - B) POLE STRENGTH CALCULATIONS
 - C) LOAD CENTER ELECTRICAL EQUIPMENT
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POWER TO THE LOAD CENTERS AND ALL EXISTING TEMPORARY AND PROPOSED LIGHTING FIXTURES DURING ALL PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE BY THE FDOT.
12. SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLES TO BE OBTAINED USING THE SUBMITTED LUMINAIRES ON THIS PROJECT. AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOT CANDLES LEVELS ON THE ROADWAY WITH AN APPROVED, CURRENT-CALIBRATED LIGHT METER.
13. ALL CURRENT CARRYING COMPONENTS SHALL BE OF COPPER CONSTRUCTION AND PROVIDE FULL RATED NEUTRAL BUS AND GROUND BUS.
14. ALL ENCLOSURE(S) SHALL BE SIZED TO ACCOMMODATE ALL SPECIFIED EQUIPMENT MAINTAINING NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 MINIMUM CLEARANCES.
15. ENDS OF CONDUITS SHALL BE SEALED WITH ELECTRICIANS PUTTY AFTER WIRING IS COMPLETED.

16. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACK AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY NEC OR NESC FOR CABLE USED.
17. ALL PULL BOX COVERS SHALL BE BOLTED TO PULL BOX.
18. BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE 4 SETS OF AS BUILT PLANS TO THE MAINTAINING AGENCY AND TO FDOT'S BROWARD OPERATIONS SIGNALIZATION AND LIGHTING COORDINATOR AT ANDREW.POERIO@DOT.STATE.FL.US TO HELP PERFORM "SERVICE TAP INSPECTIONS" AS PART OF FINAL ELECTRICAL INSPECTION.

PAY ITEM NOTES:

- | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 630-2-11 | PAYMENT FOR CONDUIT SHALL BE BASED ON THE HORIZONTAL PATH OF THE INSTALLED CONDUIT AS MEASURED BETWEEN THE CENTERS OF PULL BOXES, CABINETS, ETC. NO ALLOWANCE SHALL BE MADE FOR SWEEPS OR VERTICAL DISTANCES ABOVE OR BELOW GROUND. THE WORK INCLUDES A NUMBER OF CONDUIT RUNS IN A SINGLE TRENCH, AS SHOWN ON PLANS. |
| 630-2-12 | INCLUDES ALL MATERIALS AND INSTALLATION COSTS. THE WORK INCLUDES A SINGLE BORE AND NUMBER OF CONDUITS AS SPECIFIED ON PLAN SHEETS. DEPTH OF BORING WILL BE DETERMINED TO ENSURE AT LEAST TWO FEET VERTICAL CLEARANCE FROM ANY EXISTING CONFLICTING UNDERGROUND UTILITIES. |
| 633-1-114 | FIBER OPTIC FOR LED STRING LIGHT FOR THE SEA WALL. INCLUDES FURNISHING & INSTALLING CONDUITS, FIBER OPTIC (100 FIBER) AND ALL OTHER APPURTENANCES IN /OUTSIDE THE WALL RELATED TO LED STRING LIGHTS TO BE SPECIFIED IN THE TSP. |
| 635-2-11 | INCLUDES COST OF PROVIDING CONCRETE SLAB AROUND PULL BOXES. |
| 715-1-12 | PAYMENT FOR CONDUCTORS SHALL BE MADE BASED ON THE LINEAR FEET OF A SINGLE CONDUCTOR IN HORIZONTAL MEASUREMENT. NO ALLOWANCE SHALL BE MADE FOR CONNECTION IN PULL BOXES AND CABINETS. |
| 715-518-315 | INCLUDES PAYMENT FOR FOUNDATION AS SHOWN ON SHEET L-17 INCLUDING ANY ADDITIONAL COST TO CONSTRUCT FOUNDATIONS IN CONFLICT WITH THE EXISTING WALL FOUNDATION AS SHOWN ON SHEET L-18. |
| 715-7-11 | INCLUDES ANY REQUIRED FEE BY FPL. TO INCLUDE ALL COSTS INCURRED BY FDOT DETAIL AND PLAN DETAIL SHEET L-19. |
| 715-11-119 | LED STRING LIGHT ILLUMINATORS FOR THE SEA WALL. INCLUDES FURNISHING & INSTALLING 40W LED ILLUMINATORS AND RELATED APPURTENANCES TO BE SHOWN ON THE PLANS AND SPECIFIED IN THE TSP. |

REVISIONS				<small>ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912</small>	<small>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</small>			<h2 style="margin: 0;">GENERAL NOTES</h2>	SHEET NO. L-3 <small>CAM #14-0011</small>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					A1A	BROWARD	433688-4-52-01		

POLE DATA

POLE NO.	CIRCUIT	STATION	POLE SETBACK	FOUNDATION SEE SHEET	PAY ITEM
*PLP-01	A-3	619+15	34.8 LT	L-18	715-518-315
*PLP-02	A-3	619+88	34.3 LT	L-18	715-518-315
*PLP-03	A-3	620+65	34.3 LT	L-18	715-518-315
*PLP-04	A-3	621+40	34.1 LT	L-18	715-518-315
*PLP-05	A-3	622+15	34.4 LT	L-18	715-518-315
PLP-06	A-3	622+90	35.5 LT	L-17	715-518-315
*PLP-07	A-3	623+62	35.3 LT	L-18	715-518-315
*PLP-08	B-1	624+37	35.3 LT	L-18	715-518-315
*PLP-09	B-1	625+11	34.8 LT	L-18	715-518-315
*PLP-10	B-1	625+85	34.6 LT	L-18	715-518-315
*PLP-11	B-1	626+60	34.7 LT	L-18	715-518-315
*PLP-12	B-1	627+35	34.8 LT	L-18	715-518-315
*PLP-13	B-1	628+10	34.7 LT	L-18	715-518-315
*PLP-14	B-1	628+84	34.7 LT	L-18	715-518-315
*PLP-15	B-1	629+58	34.8 LT	L-18	715-518-315
*PLP-16	B-1	630+33	35.0 LT	L-18	715-518-315
*PLP-17	B-1	631+08	35.0 LT	L-18	715-518-315
*PLP-18	B-3	631+83	35.1 LT	L-18	715-518-315
*PLP-19	B-3	632+58	35.0 LT	L-18	715-518-315
*PLP-20	B-3	633+33	35.2 LT	L-18	715-518-315
*PLP-21	B-3	634+08	34.9 LT	L-18	715-518-315
*PLP-22	B-3	634+83	34.8 LT	L-18	715-518-315
*PLP-23	B-3	635+58	34.8 LT	L-18	715-518-315
*PLP-24	B-3	636+35	34.7 LT	L-18	715-518-315
*PLP-25	B-3	637+05	34.7 LT	L-18	715-518-315
PLP-26	B-3	637+87	35.4 LT	L-17	715-518-315
PLP-27	B-3	638+45	33.7 LT	L-17	715-518-315
PLP-28	B-3	639+19	27.0 LT	L-17	715-518-315
PLP-29	B-3	639+85	22.9 LT	L-17	715-518-315
PLP-30	B-3	640+69	24.4 LT	L-17	715-518-315
PLP-31	B-3	641+46	27.9 LT	L-17	715-518-315
PLP-32	C-1	642+29	35.0 LT	L-17	715-518-315
PLP-33	C-1	643+01	35.0 LT	L-17	715-518-315
PLP-34	C-1	643+73	35.0 LT	L-17	715-518-315
PLP-35	C-1	644+45	35.3 LT	L-17	715-518-315
PLP-36	C-1	645+20	35.0 LT	L-17	715-518-315
PLP-37	C-1	645+91	35.0 LT	L-17	715-518-315
PLP-38	C-1	646+62	35.0 LT	L-17	715-518-315
PLP-39	C-1	647+32	35.0 LT	L-17	715-518-315
PLP-40	C-1	648+13	34.6 LT	L-17	715-518-315
PLP-41	C-1	648+85	35.0 LT	L-17	715-518-315
PLP-42	C-1	649+56	35.0 LT	L-17	715-518-315
PLP-43	C-1	650+28	34.6 LT	L-17	715-518-315
PLP-44	C-3	651+00	35.0 LT	L-17	715-518-315
PLP-45	C-3	651+72	35.0 LT	L-17	715-518-315
PLP-46	C-3	652+43	35.0 LT	L-17	715-518-315
PLP-47	C-3	653+14	34.7 LT	L-17	715-518-315
PLP-48	C-3	653+94	35.1 LT	L-17	715-518-315
PLP-49	C-3	654+64	35.3 LT	L-17	715-518-315
PLP-50	C-3	655+35	35.1 LT	L-17	715-518-315
PLP-51	C-3	656+06	35.1 LT	L-17	715-518-315
PLP-52	C-3	656+85	35.6 LT	L-17	715-518-315
PLP-53	C-3	657+54	32.6 LT	L-17	715-518-315
PLP-54	C-3	658+38	37.6 LT	L-17	715-518-315
PLP-55	C-3	659+07	36.5 LT	L-17	715-518-315

POLE DATA

POLE NO.	CIRCUIT	STATION	POLE SETBACK	FOUNDATION SEE SHEET	PAY ITEM
PLP-56	D-1	659+73	34.2 LT	L-17	715-518-315
PLP-57	D-1	660+47	34.2 LT	L-17	715-518-315
PLP-58	D-1	661+22	34.5 LT	L-17	715-518-315
PLP-59	D-1	661+96	35.0 LT	L-17	715-518-315
PLP-60	D-1	662+67	34.9 LT	L-17	715-518-315
PLP-61	D-1	663+39	34.6 LT	L-17	715-518-315
PLP-62	D-1	664+15	34.5 LT	L-17	715-518-315
PLP-63	D-1	664+91	34.7 LT	L-17	715-518-315
PLP-64	A-1	609+75	33.7 RT	L-17	715-518-315
PLP-65	A-1	610+50	38.8 RT	L-17	715-518-315
PLP-66	A-1	611+25	44.0 RT	L-17	715-518-315
PLP-67	A-1	611+99	49.3 RT	L-17	715-518-315
PLP-68	A-1	612+78	49.5 RT	L-17	715-518-315
PLP-69	A-1	613+53	48.8 RT	L-17	715-518-315
PLP-70	A-1	614+42	48.1 RT	L-17	715-518-315
PLP-71	A-1	615+03	47.0 RT	L-17	715-518-315
PLP-72	A-1	615+78	45.7 RT	L-17	715-518-315
PLP-73	A-1	616+53	44.4 RT	L-17	715-518-315
PLP-74	A-1	617+31	41.5 RT	L-17	715-518-315
PLP-75	A-2	618+03	37.8 RT	L-17	715-518-315
PLP-76	A-2	618+78	33.8 RT	L-17	715-518-315
PLP-77	A-2	619+53	29.9 RT	L-17	715-518-315
PLP-78	A-2	620+28	27.3 RT	L-17	715-518-315
PLP-79	A-2	621+03	32.5 RT	L-17	715-518-315
PLP-80	A-2	621+78	32.5 RT	L-17	715-518-315
PLP-81	A-2	622+53	32.5 RT	L-17	715-518-315
PLP-82	A-2	623+28	26.0 RT	L-17	715-518-315
PLP-83	B-2	624+00	26.0 RT	L-17	715-518-315
PLP-84	B-2	624+74	26.0 RT	L-17	715-518-315
PLP-85	B-2	625+48	26.0 RT	L-17	715-518-315
PLP-86	B-2	626+23	26.0 RT	L-17	715-518-315
PLP-87	B-2	626+98	26.0 RT	L-17	715-518-315
PLP-88	B-2	627+73	26.0 RT	L-17	715-518-315
PLP-89	B-2	628+47	34.0 RT	L-17	715-518-315
PLP-90	B-2	629+21	32.5 RT	L-17	715-518-315
PLP-91	B-2	629+96	32.5 RT	L-17	715-518-315
PLP-92	B-2	630+70	32.5 RT	L-17	715-518-315
PLP-93	B-2	631+30	31.6 RT	L-17	715-518-315
PLP-94	B-4	632+20	32.5 RT	L-17	715-518-315
PLP-95	B-4	632+95	32.5 RT	L-17	715-518-315
PLP-96	B-4	633+70	32.5 RT	L-17	715-518-315
PLP-97	B-4	634+45	32.5 RT	L-17	715-518-315
PLP-98	B-4	635+20	35.5 RT	L-17	715-518-315
PLP-99	B-4	635+94	34.7 RT	L-17	715-518-315
PLP-100	B-4	636+68	33.2 RT	L-17	715-518-315
PLP-101	B-4	637+41	32.8 RT	L-17	715-518-315
PLP-102	B-4	638+11	32.0 RT	L-17	715-518-315
PLP-103	B-4	638+68	33.0 RT	L-17	715-518-315
PLP-104	B-4	639+63	36.8 RT	L-17	715-518-315
PLP-105	B-4	640+35	36.9 RT	L-17	715-518-315
PLP-106	B-4	641+11	34.2 RT	L-17	715-518-315
PLP-107	B-4	641+86	28.4 RT	L-17	715-518-315
PLP-108	C-2	642+59	26.5 RT	L-17	715-518-315
PLP-109	C-2	643+34	26.5 RT	L-17	715-518-315

POLE DATA

POLE NO.	CIRCUIT	STATION	POLE SETBACK	FOUNDATION SEE SHEET	PAY ITEM
PLP-110	C-2	644+07	26.5 RT	L-17	715-518-315
PLP-111	C-2	644+83	26.5 RT	L-17	715-518-315
PLP-112	C-2	645+55	26.5 RT	L-17	715-518-315
PLP-113	C-2	646+26	26.5 RT	L-17	715-518-315
PLP-114	C-2	646+97	26.5 RT	L-17	715-518-315
PLP-115	C-2	647+72	26.5 RT	L-17	715-518-315
PLP-116	C-2	648+45	26.5 RT	L-17	715-518-315
PLP-117	C-2	649+20	26.5 RT	L-17	715-518-315
PLP-118	C-2	649+92	26.5 RT	L-17	715-518-315
PLP-119	C-2	650+64	26.5 RT	L-17	715-518-315
PLP-120	C-4	651+36	26.5 RT	L-17	715-518-315
PLP-121	C-4	652+07	26.5 RT	L-17	715-518-315
PLP-122	C-4	652+79	26.5 RT	L-17	715-518-315
PLP-123	C-4	653+55	26.5 RT	L-17	715-518-315
PLP-124	C-4	654+29	26.4 RT	L-17	715-518-315
PLP-125	C-4	655+00	26.3 RT	L-17	715-518-315
PLP-126	C-4	655+69	26.7 RT	L-17	715-518-315
PLP-127	C-4	656+48	26.2 RT	L-17	715-518-315
PLP-128	C-4	657+17	26.6 RT	L-17	715-518-315
PLP-129	C-4	657+96	23.6 RT	L-17	715-518-315
PLP-130	C-4	658+71	24.1 RT	L-17	715-518-315
PLP-131	C-4	659+39	29.8 RT	L-17	715-518-315
PLP-132	D-2	660+10	23.3 RT	L-17	715-518-315
PLP-133	D-2	660+84	26.5 RT	L-17	715-518-315
PLP-134	D-2	661+57	26.5 RT	L-17	715-518-315
PLP-135	D-2	662+33	26.5 RT	L-17	715-518-315
PLP-136	D-2	663+06	26.5 RT	L-17	715-518-315
PLP-137	D-2	663+79	27.0 RT	L-17	715-518-315
PLP-138	D-2	664+51	28.6 RT	L-17	715-518-315

CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Initial Intensity 1.0 Foot Candles
 Uniformity Ratio Avg./Min. 4:1 Or Less
 Max./Min. 10:1 Or Less
 Wind Speed 150 MPH

LEGEND

SYMBOLS	DESCRIPTION
	Existing FPL Pole and Luminaire to Remain
	Existing Street Light Pole to Remain
	Existing pull box
	Proposed pull box
	Proposed pull box (Replace pull box over existing spare conduits)
	Proposed pull box (Replace pull box over existing lighting conduits)
	Load Center/Distribution point. For requirements see Index No. 17504 of Design Standards and Sheet L-18.
	LED string lights on sea wall

SYMBOLS

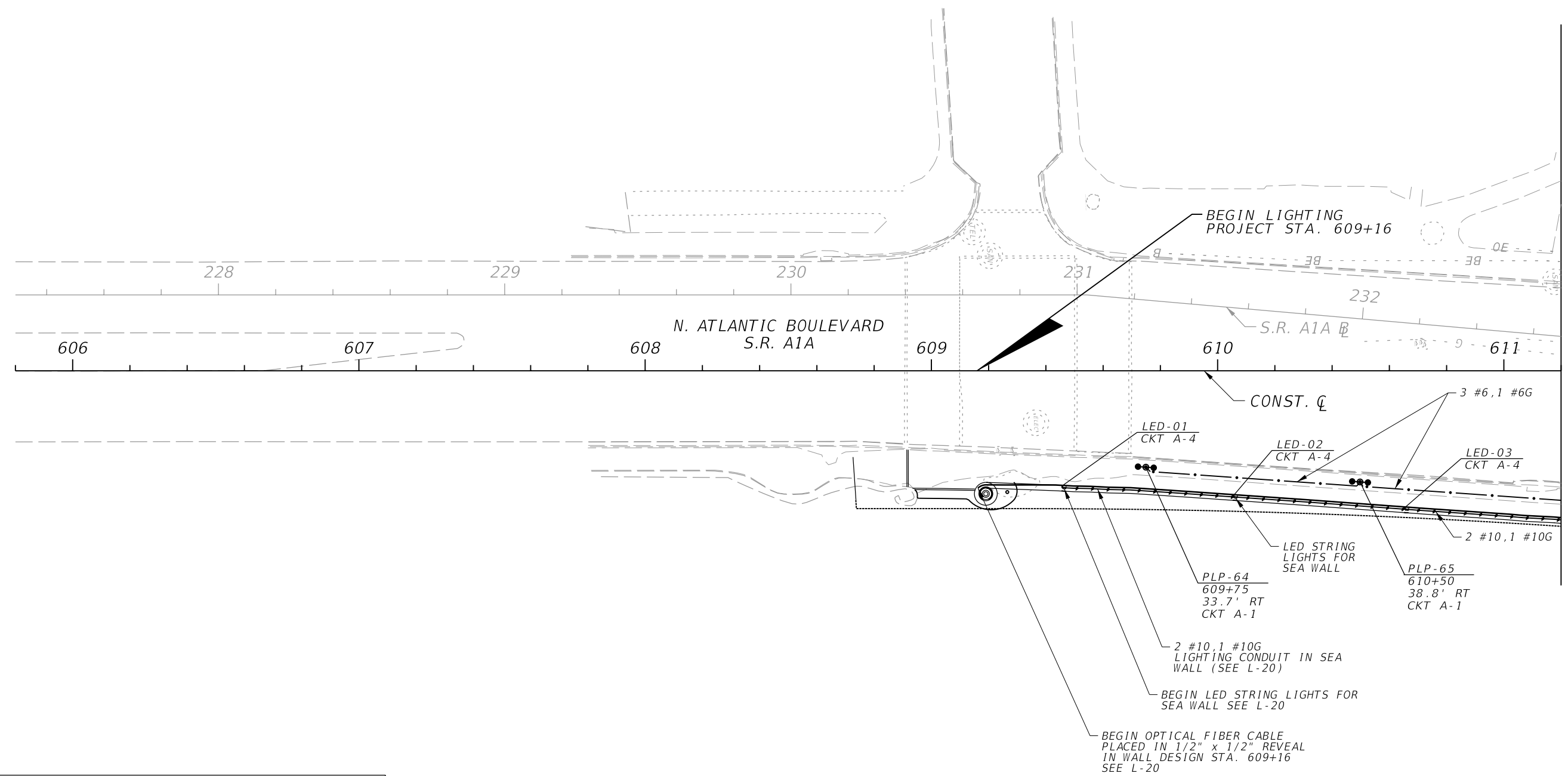
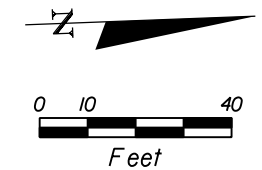
DESCRIPTION

	Twin Fixtures and Twin Bracket Assembly, Fixtures: (East Side): 100W - CITTA-FLL-100W LED AMBER-TRLE-240V-GLOSS-BLACK (or approved equivalent) (West Side): 72W - CITTA-FLL-72W LED AMBER-TRLE-240V-GLOSS-BLACK (or approved equivalent) Bracket: FCC-FLL-BR2-27-BKTX (or approved equivalent) Pole: Decorative Spun, Prestressed Concrete Pole with internal base bolting, See sheet L-17 for details.
	Existing 2" PVC Conduit Only (2" Sch. 40 PVC) (Underground) (2 Run)
	Existing 2" PVC Conduit (2" Sch. 40 PVC) (Underpavement) (2 Run)
	Existing 2" PVC Conduit (2" Sch. 40 PVC) (Underground) (1 Run)
	Proposed Conduit (3/4" Sch. 40 PVC) (In Sea Wall) (1 Run)
	Proposed Conduit (3/4" Sch. 40 PVC) (Underground) (1 Run)
	Proposed Conduit (2" Sch. 40 PVC) (Underground) (1 + 1 Run)
	Proposed Conduit (2" Sch. 40 PVC) (Underground) (1 + 2 Run)
	Proposed Directional Bore Conduit with (Underpavement) (1 + 1 Run) (2-2" HDPE)
	Proposed Directional Bore Conduit Crossing SR AIA (Underpavement) (2 + 2 Run) (4-2" HDPE)
	Proposed Directional Bore Conduit Crossing SR AIA (Underpavement) (2 + 4 Run) (6-2" HDPE)
	Existing Conduit (RGS)

*POLE HAS CONFLICT WITH WALL FOUNDATION AND REQUIRES SPECIAL FOUNDATION AS SHOWN ON SHEET L-18

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. POLE DATA AND LEGEND L-4 CAM #14-0011
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					AIA	BROWARD	433688-4-52-01	

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-5	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	158	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	196	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	227	LF
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	569	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	600	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I,(DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	2	EA
715-11-119	LUMINAIRE, F&I,ROADWAY, SPECIAL (LED SEA WALL)	3	EA



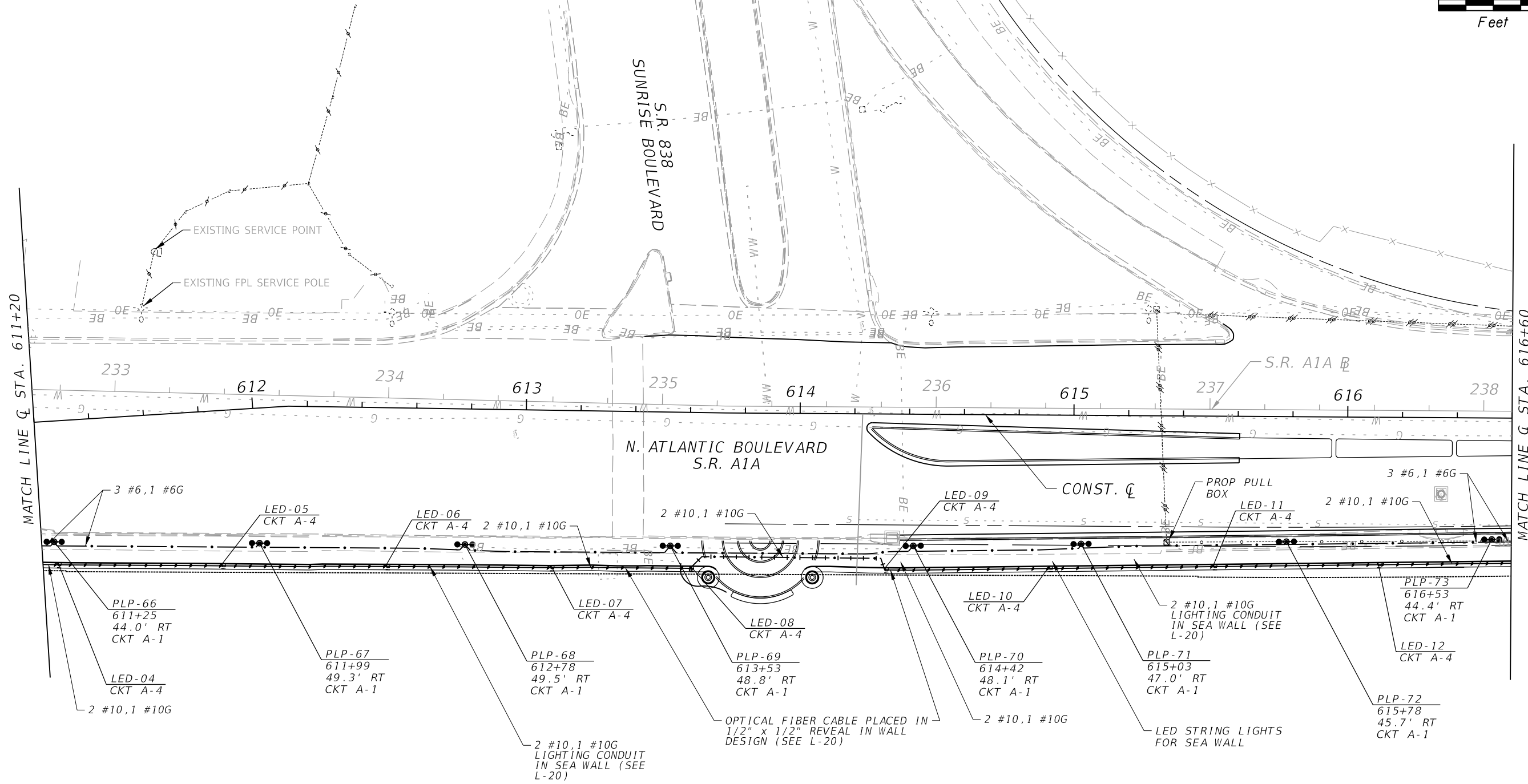
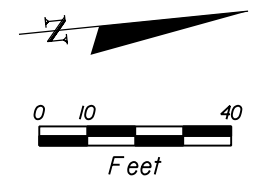
FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHTING PLAN

630-2-11 ITEM INCLUDES: 125 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

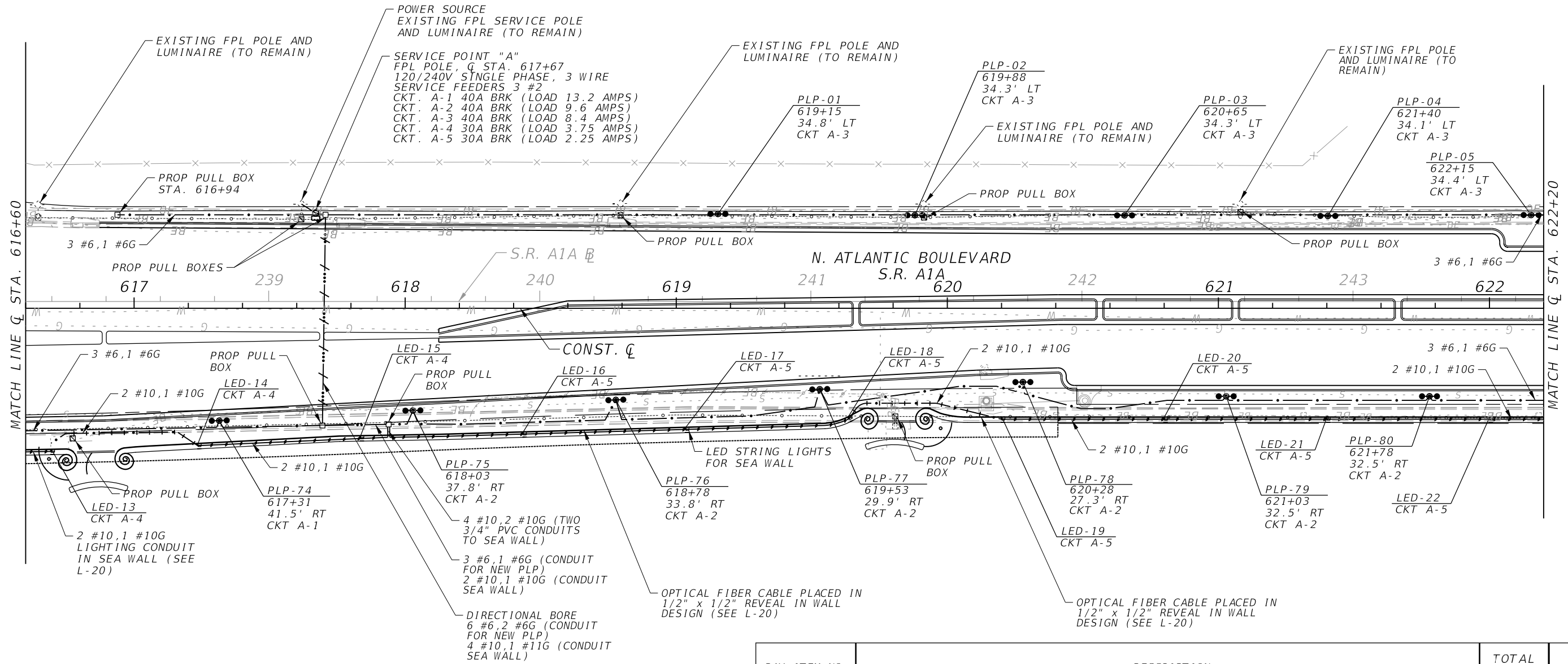
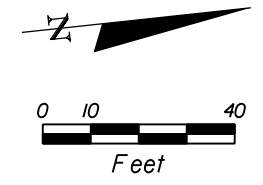
ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-6	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	757	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	523	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	564	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	1	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1765	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	2209	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	8	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-6 CAM #14-0011 EXHIBIT 1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHTING PLAN

630-2-11 ITEM INCLUDES: 643 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

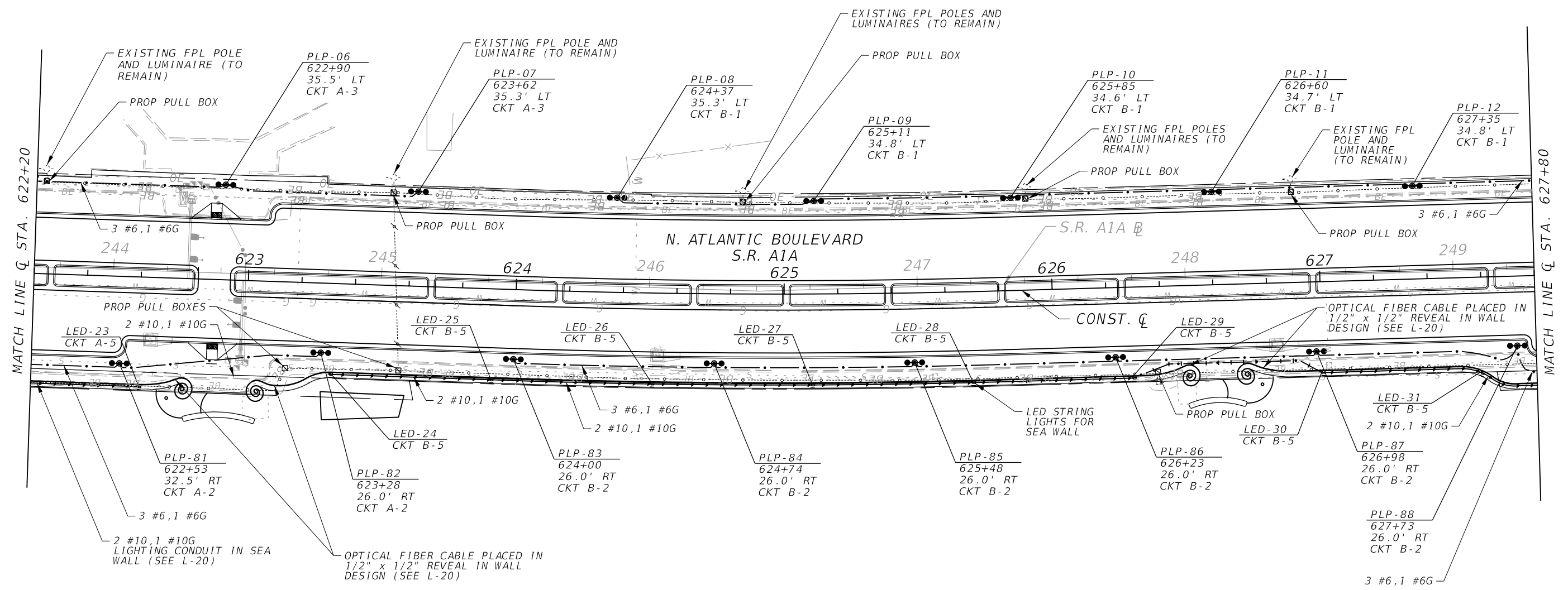
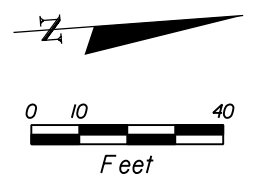
ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-7	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1910	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	88	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	531	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	592	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	10	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1941	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	5888	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	12	EA
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	1	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	10	EA

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-7 CAM #14-0011 EXHIBIT 1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-8	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1777	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	522	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	582	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	8	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1764	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	3989	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	15	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

630-2-11 ITEM INCLUDES: 699 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

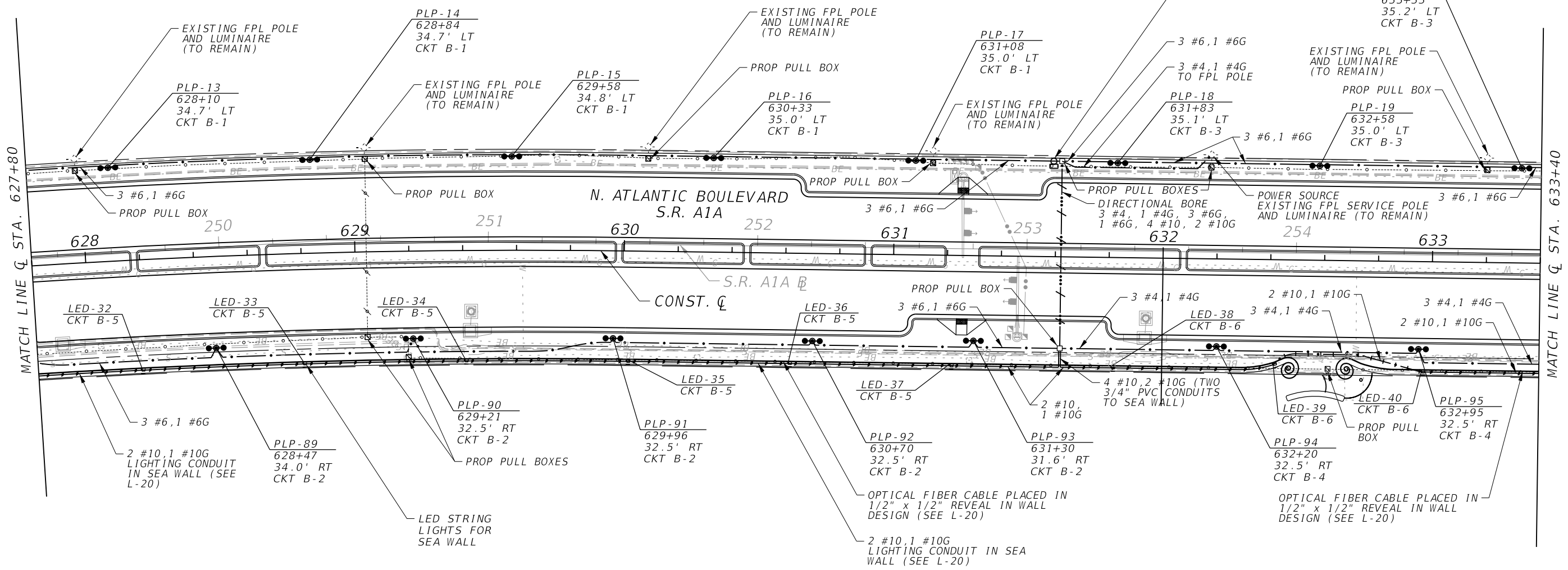
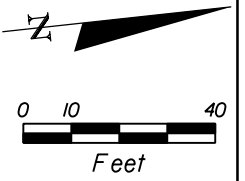
ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHTING PLAN

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-9	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1907	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	80	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	601	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	598	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	11	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1992	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	5691	LF
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO.4 TO NO.2	744	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	15	EA
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	1	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

630-2-11 ITEM INCLUDES: 686 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

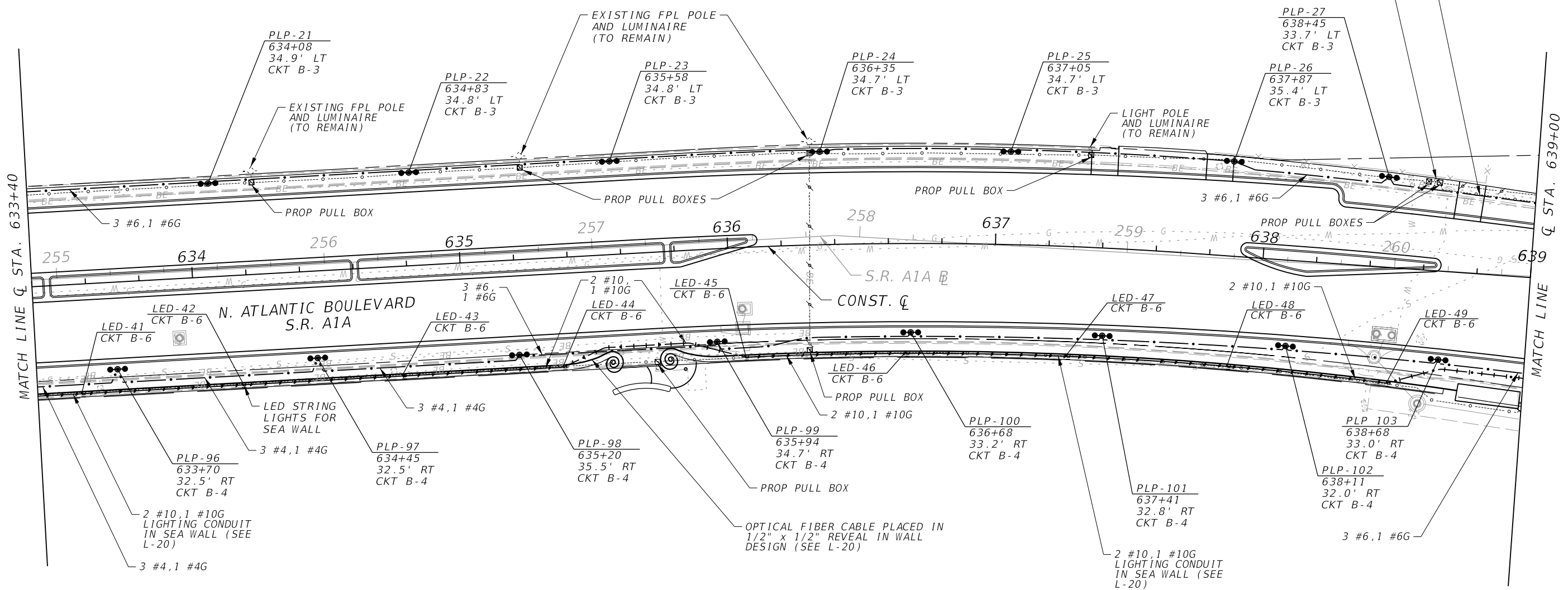
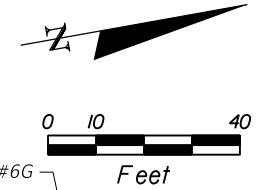
REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-9 CAM #14-0011
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHTING PLAN

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-10	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1889	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	536	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	572	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	8	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1954	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	4722	LF
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO.4 TO NO.2	788	LF
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	131	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	15	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

630-2-11 ITEM INCLUDES: 609 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

715-1-12 ITEM INCLUDES: 121 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

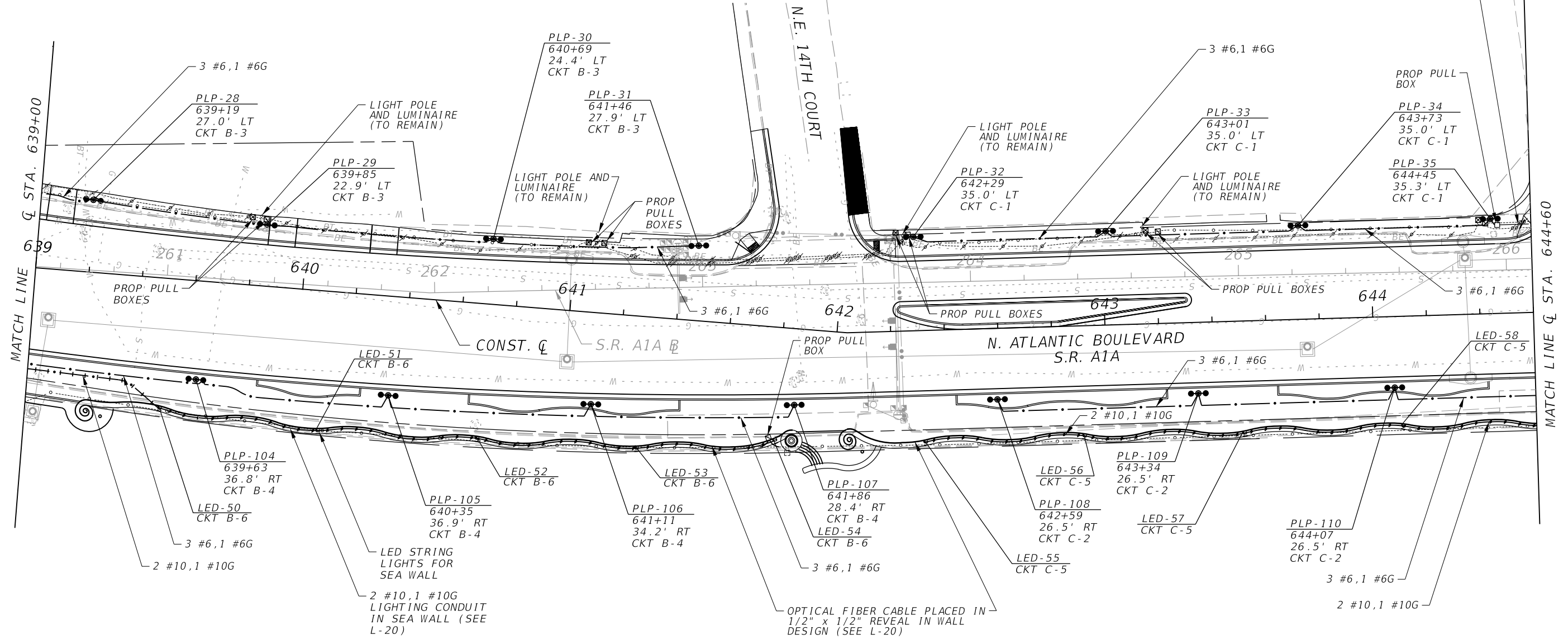
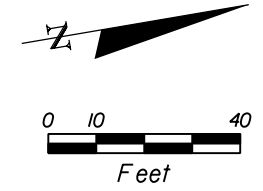
REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-10 CAM #14-0011
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHTING PLAN

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-11	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1917	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	23	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	564	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	590	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	12	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1829	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	5295	LF
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO.4 TO NO.2	0	LF
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	1283	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	15	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

630-2-11 ITEM INCLUDES: 864 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

715-1-12 ITEM INCLUDES: 1273 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

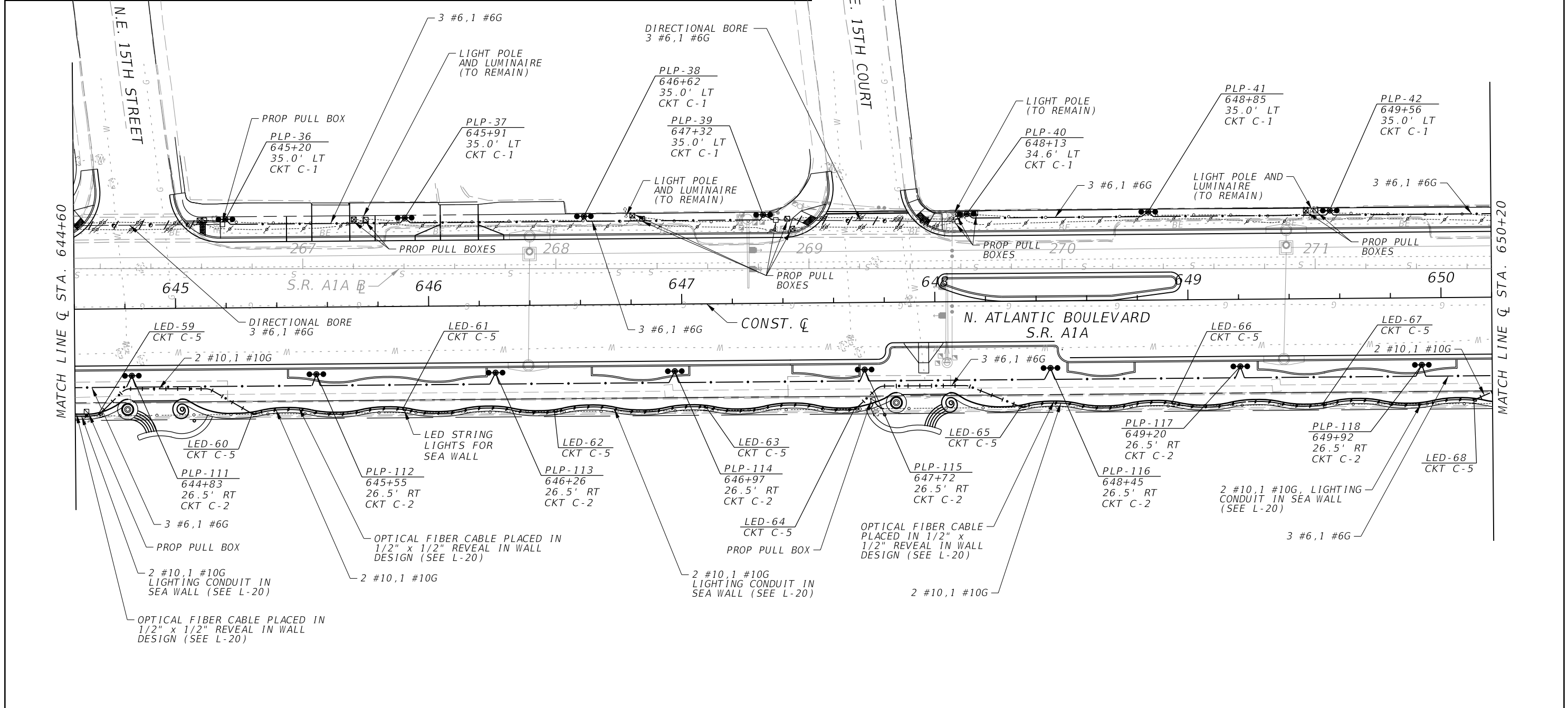
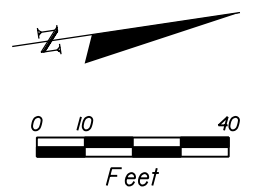
REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-11 CAM #14-0011
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHTING PLAN

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-12	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	2044	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	142	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	529	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	593	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	17	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	2007	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	5913	LF
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	1190	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	15	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	10	EA

630-2-11 ITEM INCLUDES: 839 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

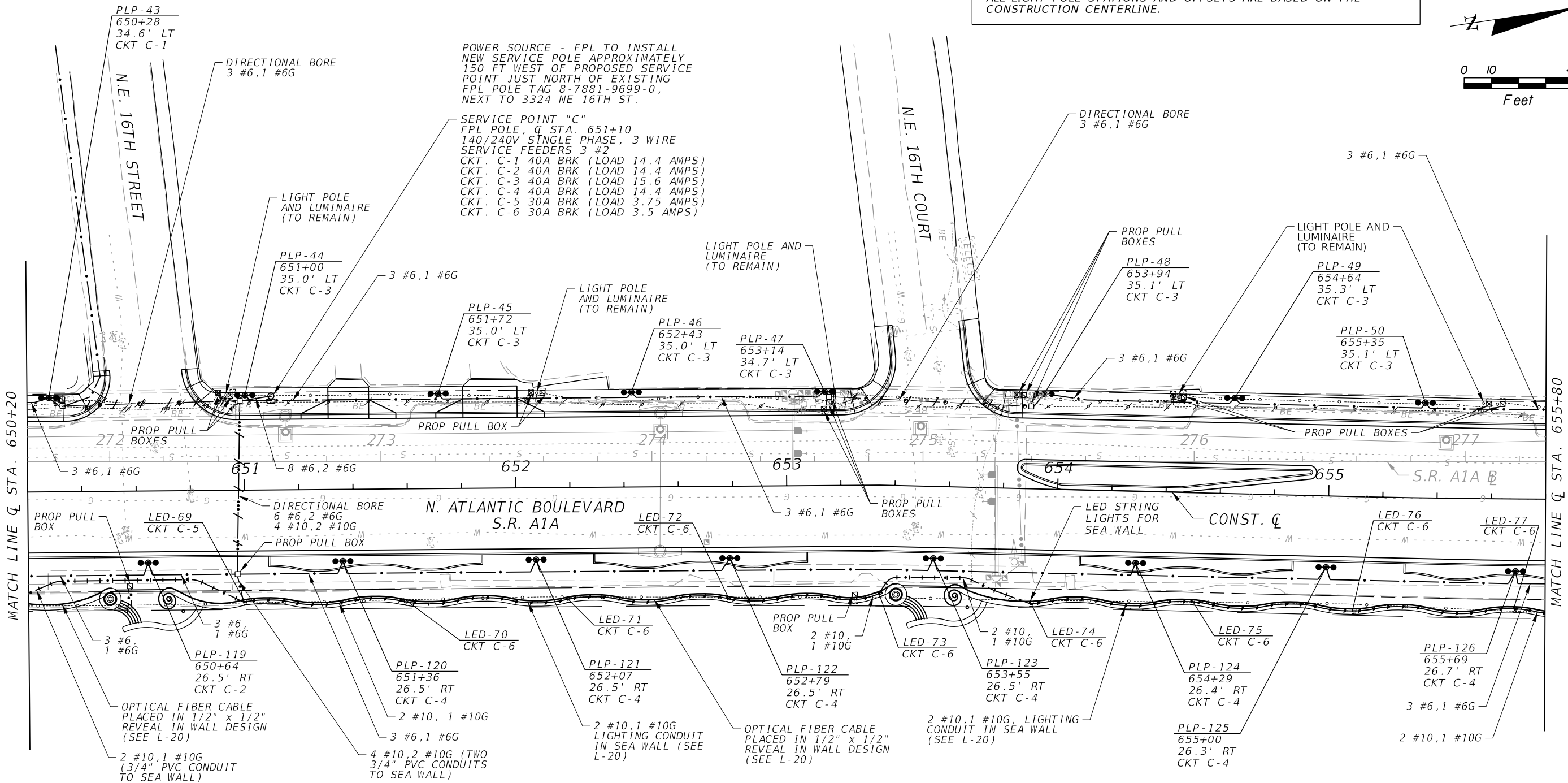
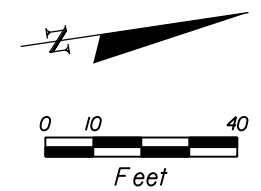
715-1-12 ITEM INCLUDES: 1180 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-12 CAM #14-0011 EXHIBIT 1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.



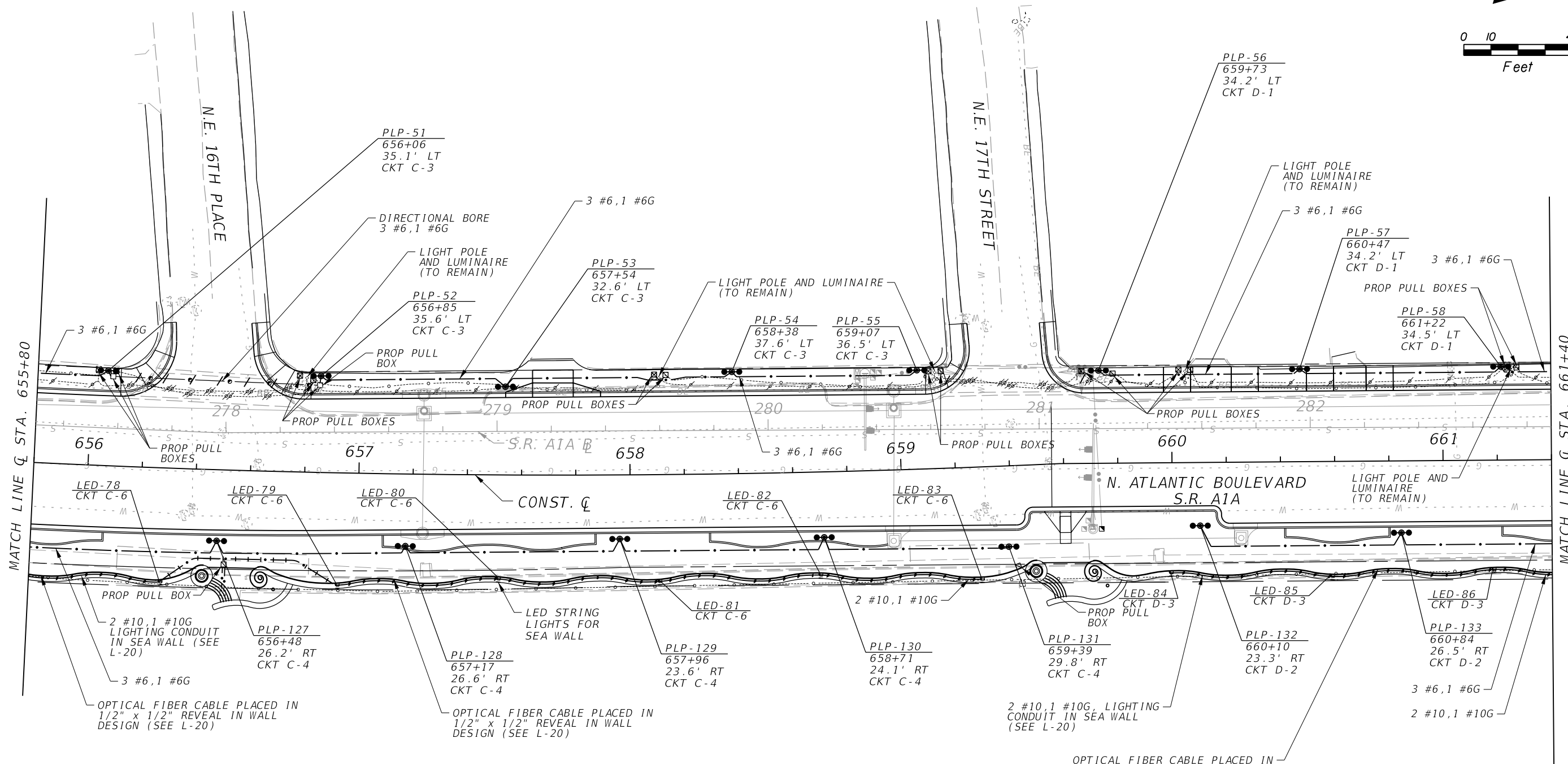
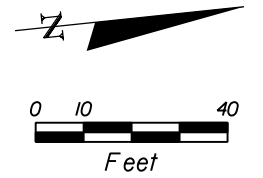
PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-13	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1950	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	214	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	535	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	586	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	21	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	2011	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	6801	LF
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	473	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	16	EA
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	1	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

630-2-11 ITEM INCLUDES: 612 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

715-1-12 ITEM INCLUDES: 463 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHTING PLAN



PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-14	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1706	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	86	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	531	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	589	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	18	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1786	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	5155	LF
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	1060	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I,(DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	15	EA
715-11-119	LUMINAIRE, F&I,ROADWAY, SPECIAL (LED SEA WALL)	9	EA

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

630-2-11 ITEM INCLUDES: 678 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.
 715-1-12 ITEM INCLUDES: 1050 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

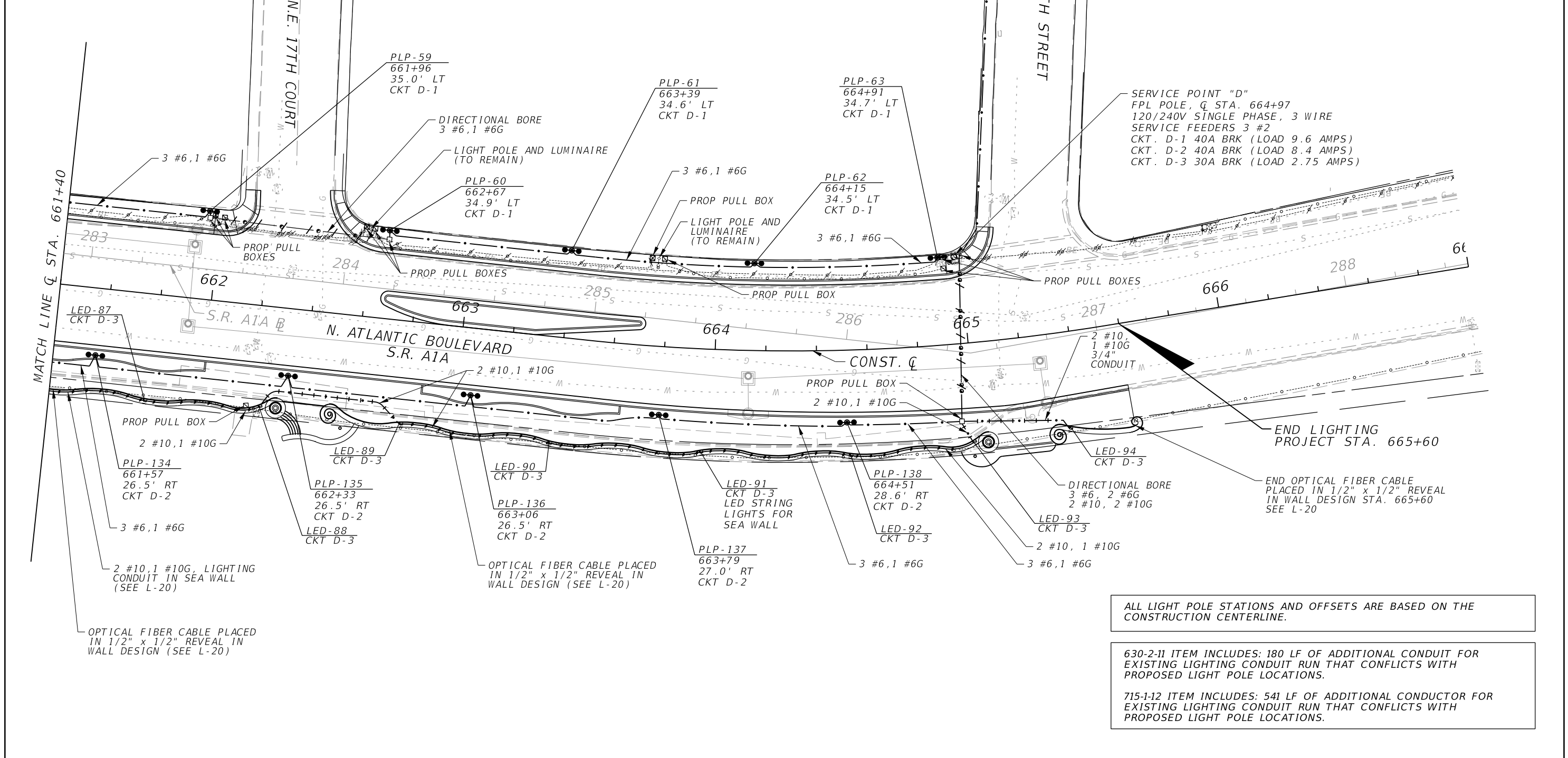
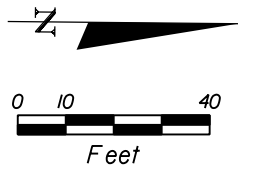
ERDMAN ANTHONY OF FLORIDA, INC.
 NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004
 1402 ROYAL PALM BEACH BLVD., SUITE 500
 ROYAL PALM BEACH, FL 33411
 PHONE 561-753-9723
 FAX 561-753-9724
 CERTIFICATE OF AUTHORIZATION 25912

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	BROWARD	433688-4-52-01

LIGHTING PLAN

SHEET NO.
L-14

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
		L-15	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1112	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	147	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	384	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	444	LF
635-2-11	PULL & SPLICE BOX, F&I, 13"x 24" COVER SIZE	13	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO.10 OR <	1472	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	4592	LF
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	551	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I,(DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	10	EA
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	1	EA
715-11-119	LUMINAIRE, F&I,ROADWAY, SPECIAL (LED SEA WALL)	8	EA



ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

630-2-11 ITEM INCLUDES: 180 LF OF ADDITIONAL CONDUIT FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

715-1-12 ITEM INCLUDES: 541 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-15 CAM #14-0011
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

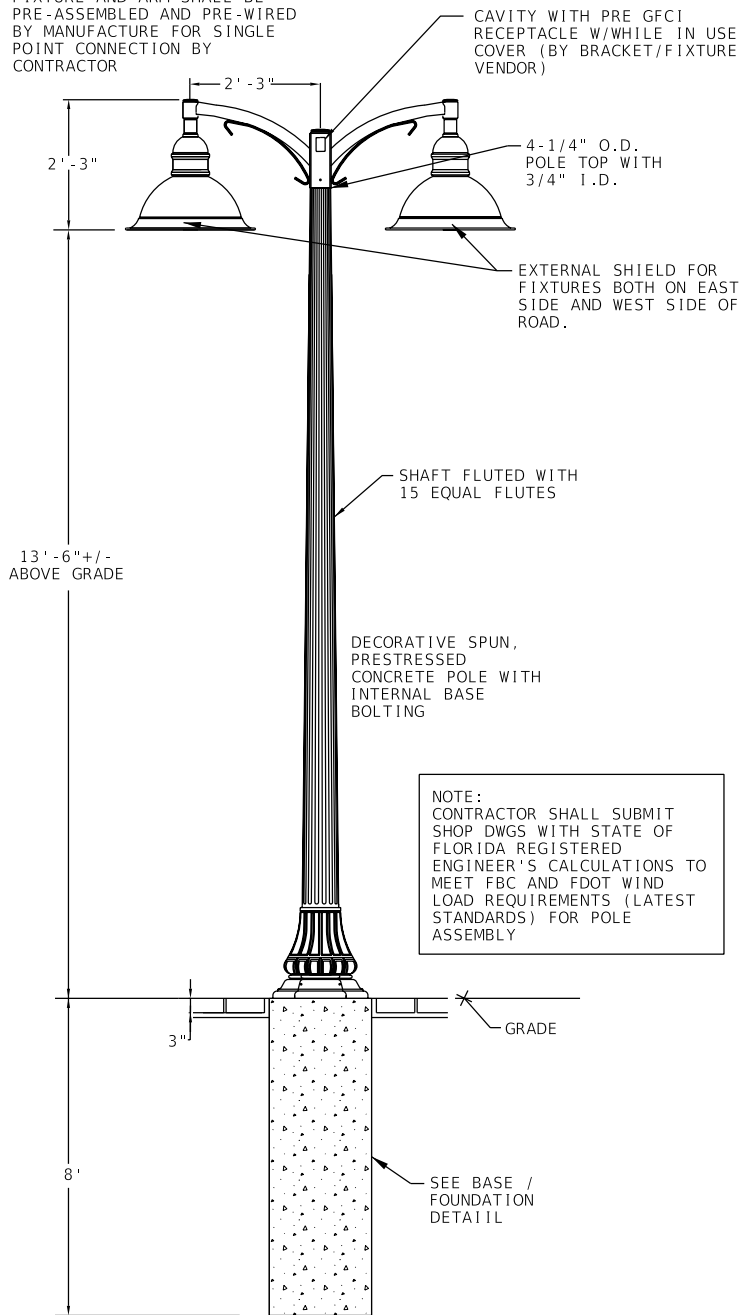
UTILITY CONFLICT MATRIX - LIGHTING											
FPID - 433688-4-52-01				SR-A1A (N. ATLANTIC BLVD) - FROM SR-838 TO N.E. 18TH STREET							
LIGHT POLE	STATION	OFFSET	CONTROL	UTILITY OWNER							
				STORM DRAINAGE	SPARE CONDUITS	FLORIDA POWER & LIGHT/BURRIED ELECTRIC	STREET LIGHT CONDUITS	BROWARD COUNTY TRAFFIC SIGNAL DUCT	SANITARY FM	TELEPHONE	
PLP-01	619+15	34.8 LT	CONST. CL		2-2"	BE					
PLP-02	619+88	34.3 LT	CONST. CL		2-2", PB	BE					
PLP-03	620+65	34.3 LT	CONST. CL		2-2"	BE					
PLP-04	621+40	34.1 LT	CONST. CL		2-2"	BE					
PLP-05	622+15	34.4 LT	CONST. CL		2-2"	BE					
PLP-06	622+90	35.5 LT	CONST. CL		2-2"	BE					
PLP-07	623+62	35.3 LT	CONST. CL		2-2"	BE					
PLP-08	624+37	35.3 LT	CONST. CL		2-2"	BE					
PLP-09	625+11	34.8 LT	CONST. CL		2-2"	BE					
PLP-10	625+85	34.6 LT	CONST. CL		2-2"	BE					
PLP-11	626+60	34.7 LT	CONST. CL		2-2"	BE					
PLP-12	627+35	34.8 LT	CONST. CL		2-2"						
PLP-13	628+10	34.7 LT	CONST. CL		2-2"						
PLP-14	628+84	34.7 LT	CONST. CL		2-2"						
PLP-15	629+58	34.8 LT	CONST. CL		2-2"						
PLP-16	630+33	35.0 LT	CONST. CL		2-2"						
PLP-17	631+08	35.0 LT	CONST. CL		2-2"						
PLP-18	631+83	35.1 LT	CONST. CL		2-2"						
PLP-19	632+58	35.0 LT	CONST. CL		2-2"						
PLP-20	633+33	35.2 LT	CONST. CL		2-2"						
PLP-21	634+08	34.9 LT	CONST. CL		2-2"						
PLP-22	634+83	34.8 LT	CONST. CL		2-2"						
PLP-23	635+58	34.8 LT	CONST. CL		2-2"						
PLP-24	636+35	34.7 LT	CONST. CL		2-2"						
PLP-25	637+05	34.7 LT	CONST. CL		2-2"						
PLP-26	637+87	35.4 LT	CONST. CL		2-2"						
PLP-27	638+45	33.7 LT	CONST. CL		2-2"					BT	
PLP-28	639+19	27.0 LT	CONST. CL		2-2"	BE	2"			BT	
PLP-29	639+85	22.9 LT	CONST. CL		2-2", PB	BE	2"			BT	
PLP-30	640+69	24.4 LT	CONST. CL		2-2"					BT	
PLP-31	641+46	27.9 LT	CONST. CL							BT	
PLP-32	642+29	35.0 LT	CONST. CL		2-2"	BE					
PLP-33	643+01	35.0 LT	CONST. CL		2-2"		2"				
PLP-34	643+73	35.0 LT	CONST. CL		2-2"						
PLP-35	644+45	35.3 LT	CONST. CL		2-2", PB		2"				
PLP-36	645+20	35.0 LT	CONST. CL		2-2"						
PLP-37	645+91	35.0 LT	CONST. CL		2-2"		2"				
PLP-38	646+62	35.0 LT	CONST. CL		2-2"						
PLP-39	647+32	35.0 LT	CONST. CL		2-2"			CONDUIT			
PLP-33	643+01	35.0 LT	CONST. CL		2-2"		2"				
PLP-34	643+73	35.0 LT	CONST. CL		2-2"						
PLP-35	644+45	35.3 LT	CONST. CL		2-2", PB		2"				
PLP-36	645+20	35.0 LT	CONST. CL		2-2"						
PLP-37	645+91	35.0 LT	CONST. CL		2-2"		2"				
PLP-38	646+62	35.0 LT	CONST. CL		2-2"						
PLP-39	647+32	35.0 LT	CONST. CL		2-2"			CONDUIT			
PLP-40	648+13	34.6 LT	CONST. CL		2-2"		2"				
PLP-41	648+85	35.0 LT	CONST. CL		2-2"		2"				

UTILITY CONFLICT MATRIX - LIGHTING											
FPID - 433688-4-52-01				SR-A1A (N. ATLANTIC BLVD) - FROM SR-838 TO N.E. 18TH STREET							
LIGHT POLE	STATION	OFFSET	CONTROL	UTILITY OWNER							
				STORM DRAINAGE	SPARE CONDUITS	FLORIDA POWER & LIGHT/BURRIED ELECTRIC	STREET LIGHTS	BROWARD COUNTY TRAFFIC SIGNAL DUCT	SANITARY FM	TELEPHONE	
PLP-42	649+56	35.0 LT	CONST. CL		2-2"						
PLP-43	650+28	34.6 LT	CONST. CL		2-2"		2", PB				
PLP-44	651+00	35.0 LT	CONST. CL		2-2"		2"				
PLP-45	651+72	35.0 LT	CONST. CL		2-2"						
PLP-47	653+14	34.7 LT	CONST. CL					CONDUIT			
PLP-48	653+94	35.1 LT	CONST. CL		2-2"	BE					
PLP-49	654+64	35.3 LT	CONST. CL		2-2"						
PLP-50	655+35	35.1 LT	CONST. CL		2-2"						
PLP-51	656+06	35.1 LT	CONST. CL		2-2"		2", PB				
PLP-52	656+85	35.6 LT	CONST. CL		2-2", PB						
PLP-53	657+54	32.6 LT	CONST. CL		2-2"		2"				
PLP-54	658+38	37.6 LT	CONST. CL		2-2"						
PLP-55	659+07	36.5 LT	CONST. CL					CONDUIT			
PLP-56	659+73	34.2 LT	CONST. CL			BE	2"	CONDUIT, PB			
PLP-58	661+22	34.5 LT	CONST. CL				2", PB				
PLP-59	661+96	35.0 LT	CONST. CL				2", PB				
PLP-63	664+91	34.7 LT	CONST. CL				2", PB				
PLP-68	612+78	49.5 RT	CONST. CL			BE					
PLP-69	613+53	48.8 RT	CONST. CL			BE					
PLP-72	615+78	45.7 RT	CONST. CL		2-2"	BE					
PLP-73	616+53	44.4 RT	CONST. CL		2-2"	BE					
PLP-74	617+31	41.5 RT	CONST. CL		2-2"	BE				ABANDON PIPE	
PLP-75	618+03	37.8 RT	CONST. CL		2-2"	BE				ABANDON PIPE	
PLP-76	618+78	33.8 RT	CONST. CL		2-2"	BE				ABANDON PIPE	
PLP-77	619+53	29.9 RT	CONST. CL			BE				ABANDON PIPE	
PLP-79	621+03	32.5 RT	CONST. CL							ABANDON PIPE	
PLP-80	621+78	32.5 RT	CONST. CL							ABANDON PIPE	
PLP-81	622+53	32.5 RT	CONST. CL							ABANDON PIPE	
PLP-89	628+47	34.0 RT	CONST. CL		2-2"					ABANDON PIPE	
PLP-90	629+21	32.5 RT	CONST. CL		2-2"	BE					
PLP-91	629+96	32.5 RT	CONST. CL			BE					
PLP-95	632+95	32.5 RT	CONST. CL			BE				ABANDON PIPE	
PLP-96	633+70	32.5 RT	CONST. CL			BE				ABANDON PIPE	
PLP-97	634+45	32.5 RT	CONST. CL			BE				ABANDON PIPE	
PLP-98	635+20	35.5 RT	CONST. CL			BE				ABANDON PIPE	
PLP-99	635+94	34.7 RT	CONST. CL			BE					
PLP-131	659+39	29.8 RT	CONST. CL	PIPE							

BE - buried electric, PB - pull box, BT - buried telephone
 All offsets for utilities in conflict are from the edge of the 2.5' drilled shaft foundation for the light poles.
 Only utilities falling within 1.5 ft of the excavation for foundation are included in the above matrix
 Existing spare conduits and lighting conduits to be adjusted by contractor in areas of conflict.
 Electrical conflicts to be coordinated with FPL
 Sanitary Force main to be abandoned in conflict areas.
 The conflicts identified in this matrix by the FDOT do not relieve the utility owner from the responsibility to identify all conflicts with their facilities.
 Stations/Offsets are referenced from SR A1A Construction Centerline

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY CONFLICT MATRIX SHEET NO. L-16 CAM #14-0011
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

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

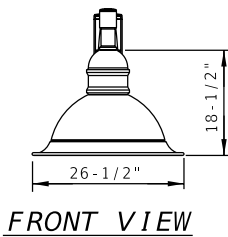


LIGHT POLE DETAIL
 N.T.S.

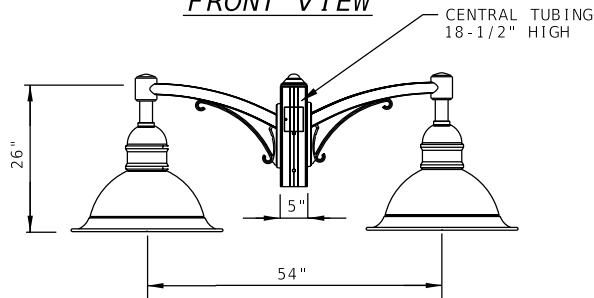
SPUNCAST PRESTRESSED WASHINGTON STYLE INTERNAL BASE PLATE
 CONCRETE POLE BY AMERON POLE PRODUCTS

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.

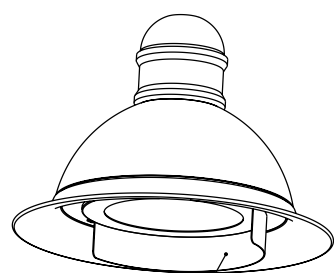
POLE DESIGNATION: 26ST14(1231)SPECIAL (WITH TENON)
 POLE WEIGHT: 480 LBS



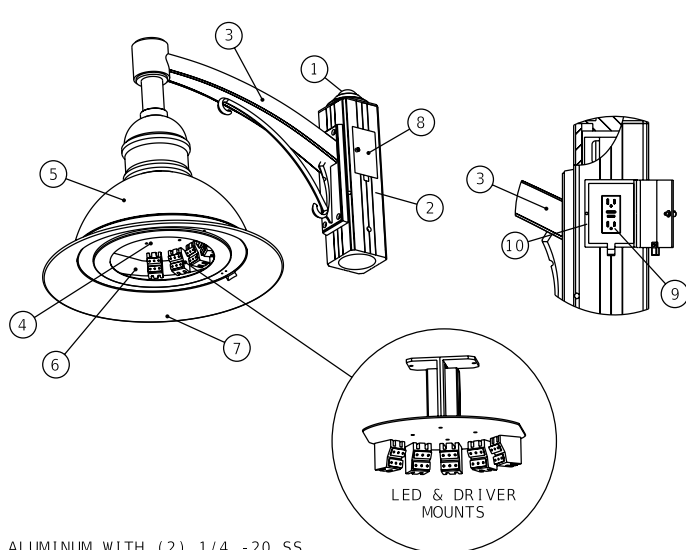
FRONT VIEW



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 TORSTON 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- LUMILEDS REBEL, 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

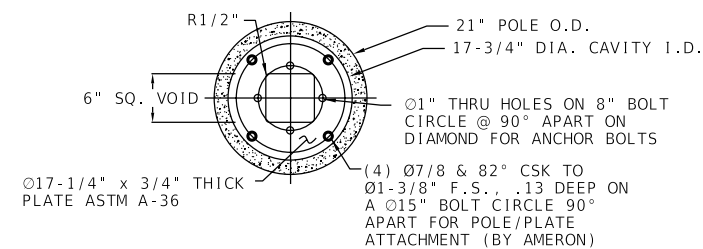
FIXTURE NOTES:

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

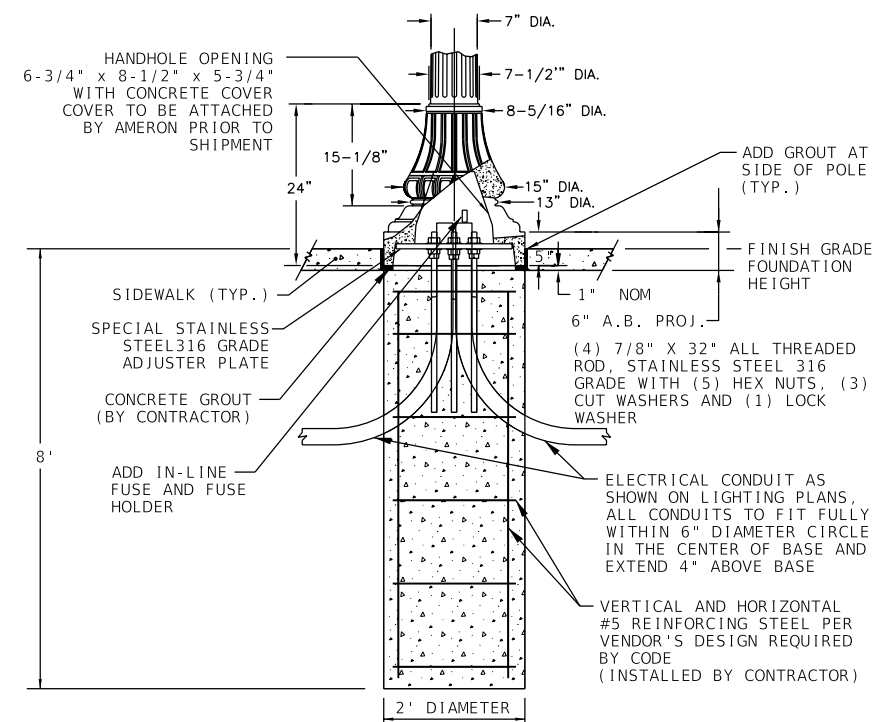
THE ENTIRE BRACKET/FIXTURE ASSEMBLY IS PRE-WIRED FOR EASY ONE POINT CONNECTION AT BOTTOM OF CENTRAL TUBING

WEST SIDE
 TWIN FIXTURE AND TWIN BRACKET ASSEMBLY:
 FIXTURE: CITTA-FLL-72W 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

EAST SIDE
 TWIN FIXTURE AND TWIN BRACKET ASSEMBLY:
 FIXTURE: CITTA-FLL-100W 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



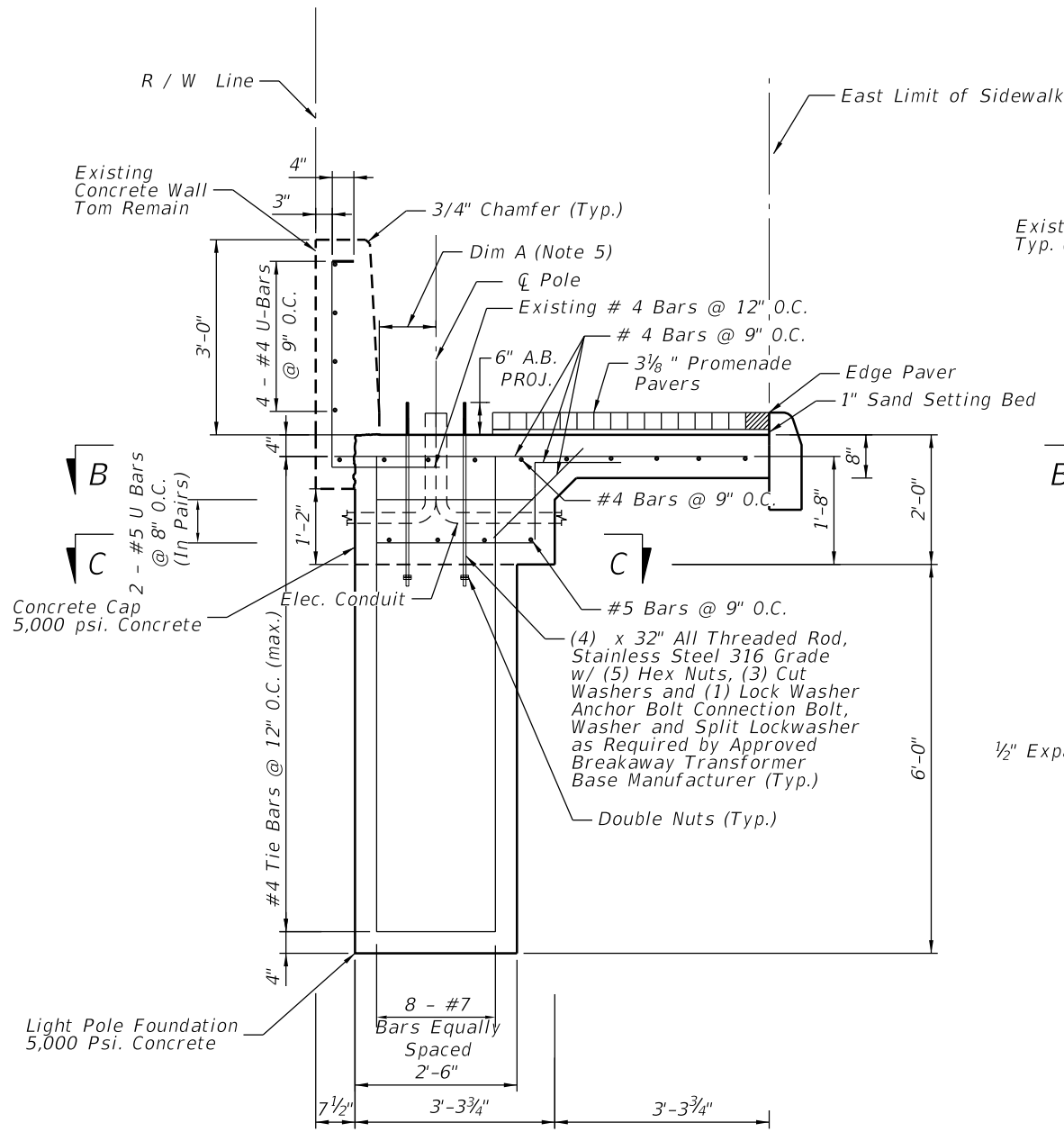
BOTTOM VIEW WITH SPECIAL ADJUSTER PLATE



BASE / FOUNDATION DETAIL
 N.T.S.

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-17 CAM #14-0011 EXHIBIT 1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LIGHT POLE DETAILS

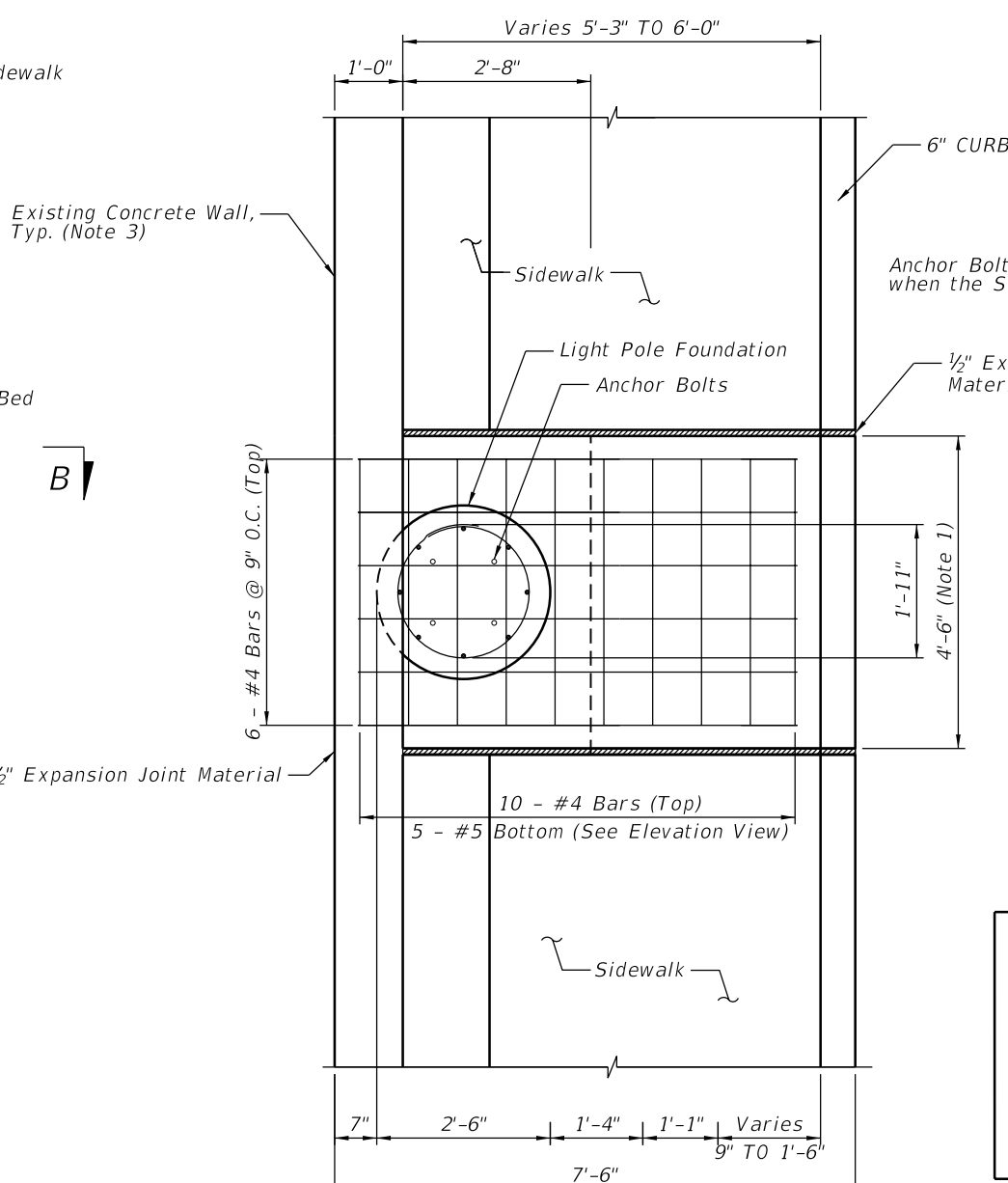


ELEVATION VIEW

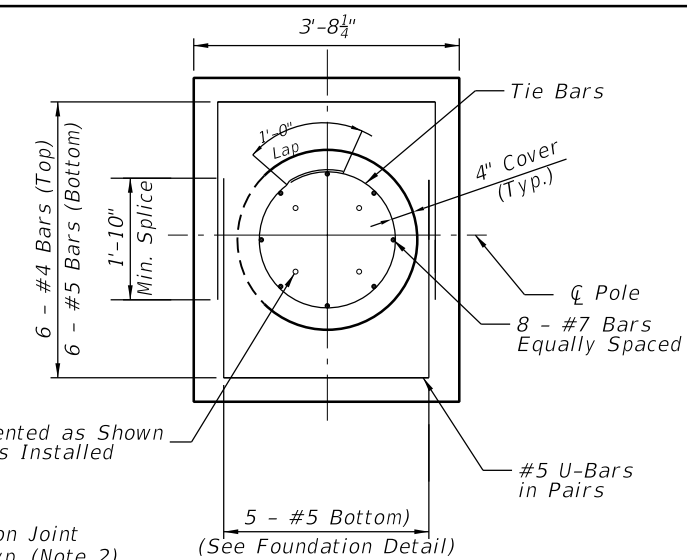
Note: Concrete Cover Shall be 4" U.N.O

NOTES:

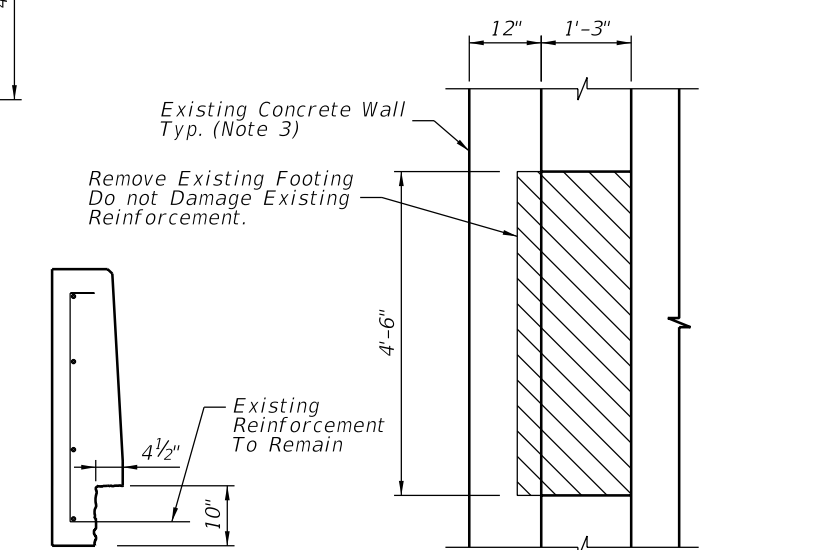
- Remove by sawcutting 4'-7" of the existing concrete wall, including the footing, and construct the Light Pole foundation/concrete wall structure.
- The expansion joint material should be provided also for the concrete wall between the new and existing walls.
- After sawcutting the existing wall, exposed reinforcing steel shall be burnt 2" inside the cut surface. The holes shall be filled with non-shrink grout.
- Foundation Materials:
 - Reinforcing Steel: ASTM A615 Grade 60.
 - Concrete: Class IV.
 - Anchor bolts: ASTM F1554 Grade 55 with ASTM A563 Grade DH nuts and ASTM F436 Type I washers (all galvanized in accordance with ASTM F2329).
- Dimension A should be 1'-6" at most light pole locations, and should be 10 1/2" at the following locations: PLP-01 (Sta. 619+15), PLP-02 (Sta. 619+88), PLP-3 (Sta. 620+65), PLP-4 (Sta. 621+40)



SECTION B-B



SECTION C-C



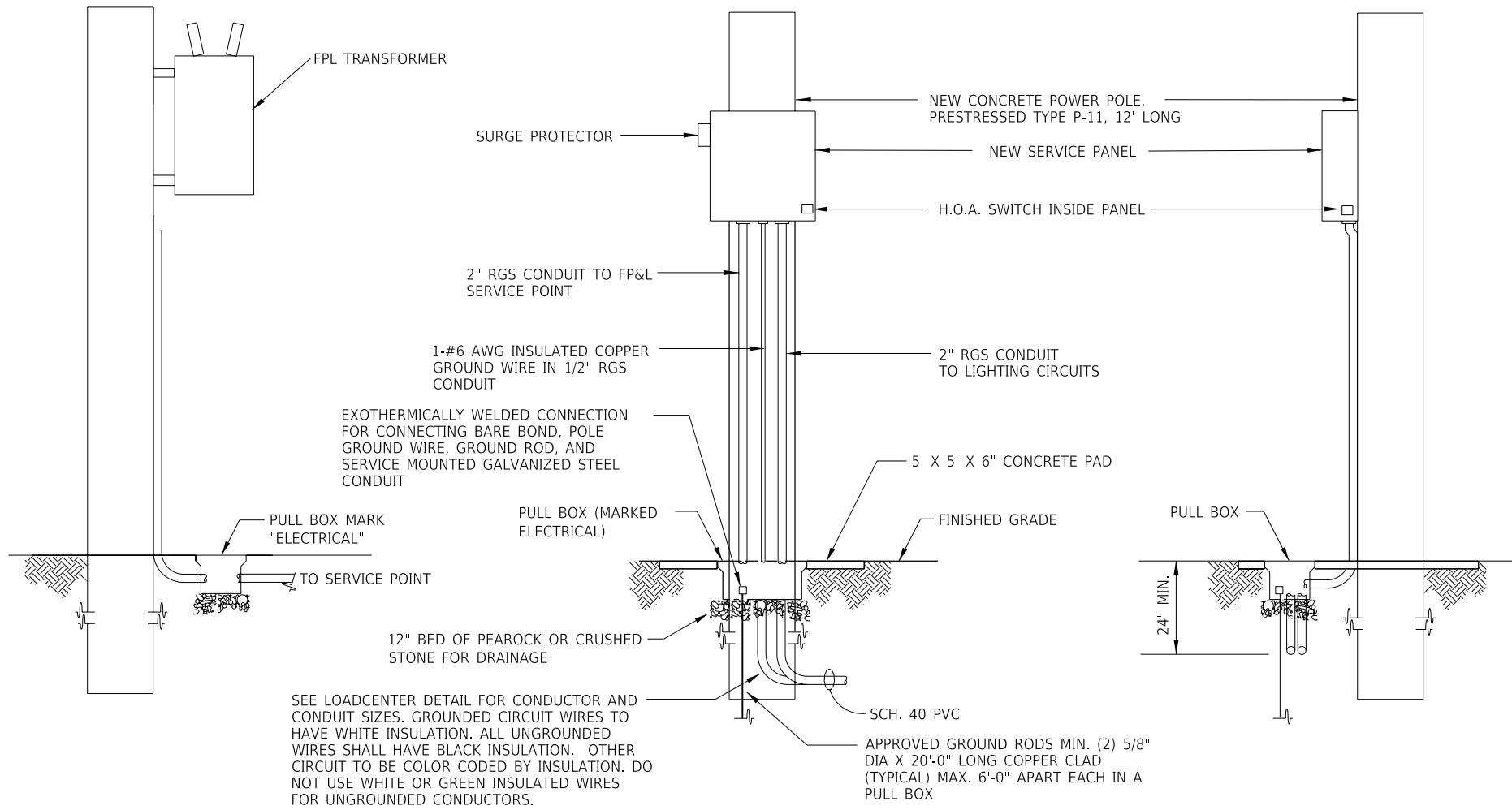
PROPOSED SECTION CUT ELEVATION VIEW

EXISTING CONCRETE WALL WALL PLAN VIEW

FOUNDATION NOTES:

The foundation for Concrete Spun Light Poles are pre-designed and are based upon the following conservative soil criteria which covers the majority of soil types found in Florida:
 Classification = Cohesionless (Fine Sand)
 Friction Angle = 30 Degrees (30°)
 Unit Weight = 50 lbs./cu. ft. (assumed saturated)
 Only in cases where the Designer considers the soil types at the specific site location to be of lesser strength properties should an analysis be required. Auger borings, SPT borings or CPT soundings may be utilized as needed to verify the assumed soil properties, and at relatively uniform sites, a single boring or sounding may cover several foundations. Borings in the area that were performed for other purposes may be used to confirm the assumed soil properties.

REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-18 CAM #14-0011
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	



SEE LOADCENTER DETAIL FOR CONDUCTOR AND CONDUIT SIZES. GROUNDED CIRCUIT WIRES TO HAVE WHITE INSULATION. ALL UNGROUNDED WIRES SHALL HAVE BLACK INSULATION. OTHER CIRCUIT TO BE COLOR CODED BY INSULATION. DO NOT USE WHITE OR GREEN INSULATED WIRES FOR UNGROUNDED CONDUCTORS.

FRONT ELEVATION

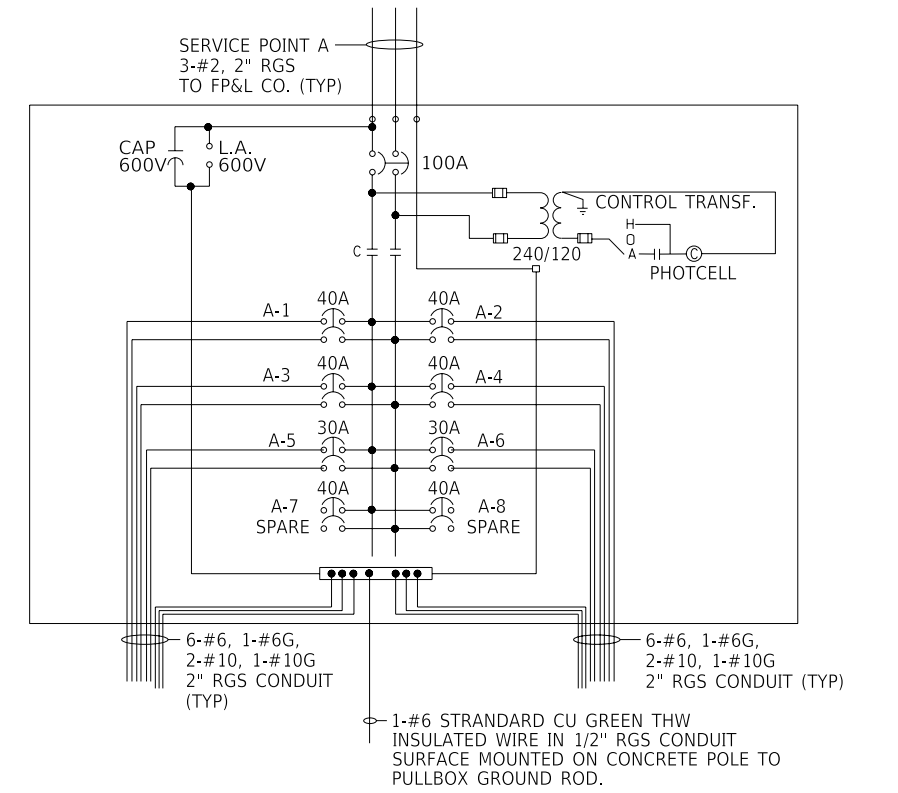
SIDE ELEVATION

NEW SERVICE POINT DETAIL

NOT TO SCALE
120/240V SINGLE PHASE, 3 WIRE (SERVICE POINT A, B, C & D)

SPECIFICATIONS

- NEW PANELBOARD ENCLOSURE, NEMA 4X STAINLESS STEEL, POLE MOUNTED.
- THE ENCLOSURE SHALL BE HEAVY DUTY STAINLESS STEEL, RAIN TIGHT, INSULATED TO 600VAC, AND MEET U.L. 508.
- THE ENCLOSURE SHALL BE LOCKABLE AND FOUR (4) KEYS PROVIDED TO THE MAINTAINING AGENCIES. THE DOOR SHALL HAVE A CONTINUOUS HINGE AND DRAW DOWN LATCHES.
- ALL ENCLOSURE HARDWARE SHALL BE STAINLESS STEEL.
- NEW CIRCUIT BREAKERS SHALL BE USED.
- ALL COMPONENTS TO BE INTERCHANGEABLE WITH MAJOR MANUFACTURERS; WESTINGHOUSE, SQUARE-D, G.E., ETC. WITHOUT PANEL ALTERATIONS.
- ALL BUSES TO BE COPPER 100A RATED MINIMUM.
- ENCLOSED COPPER GROUND BUS TO BE INCLUDED, RATED 200A MINIMUM.
- A 600 VAC SURGE PROTECTOR SHALL BE WIRED INSIDE THE ENCLOSURE.
- ENCLOSURE TO BE SIZED TO ACCOMMODATE THE NUMBER OF CIRCUIT BREAKERS AS INDICATED ON THE LOADCENTER DETAIL AND AS PER DOT STANDARDS.
- ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLEFACE OPPOSITE ON COMING TRAFFIC.
- PANELBOARD SHALL BE SERVICE ENTRANCE RATED.
- MOUNTING HEIGHT OF SERVICE DISCONNECT SHALL BE AS PER F.D.O.T. INDEX 17504.
- PANELBOARD SHALL HAVE 25,000 AIC RATING.
- ALL POLE INSTALLATIONS SHALL MEET FLORIDA BUILDING CODE WIND LOADING. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATION WILL MEET THE WIND LOADING REQUIREMENT.



TYPICAL LOADCENTER DETAIL (A, B, C & D)

120:240 VOLT, 1 PHASE, 3 WIRE
NOTE: REFER TO FDOT STANDARD INDEX NO. 17504

LOADCENTER "A" DATA

DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "A"	37.2	8.9

SERVICE CALCULATION
(37.2A X 1.25) = 46.5 A

LOADCENTER "B" DATA

DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "B"	66.3	15.9

SERVICE CALCULATION
(66.3A X 1.25) = 82.9 A

LOADCENTER "C" DATA

DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "C"	64.6	15.5

SERVICE CALCULATION
(64.6A X 1.25) = 80.8 A

LOADCENTER "D" DATA

DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "D"	20.8	5.0

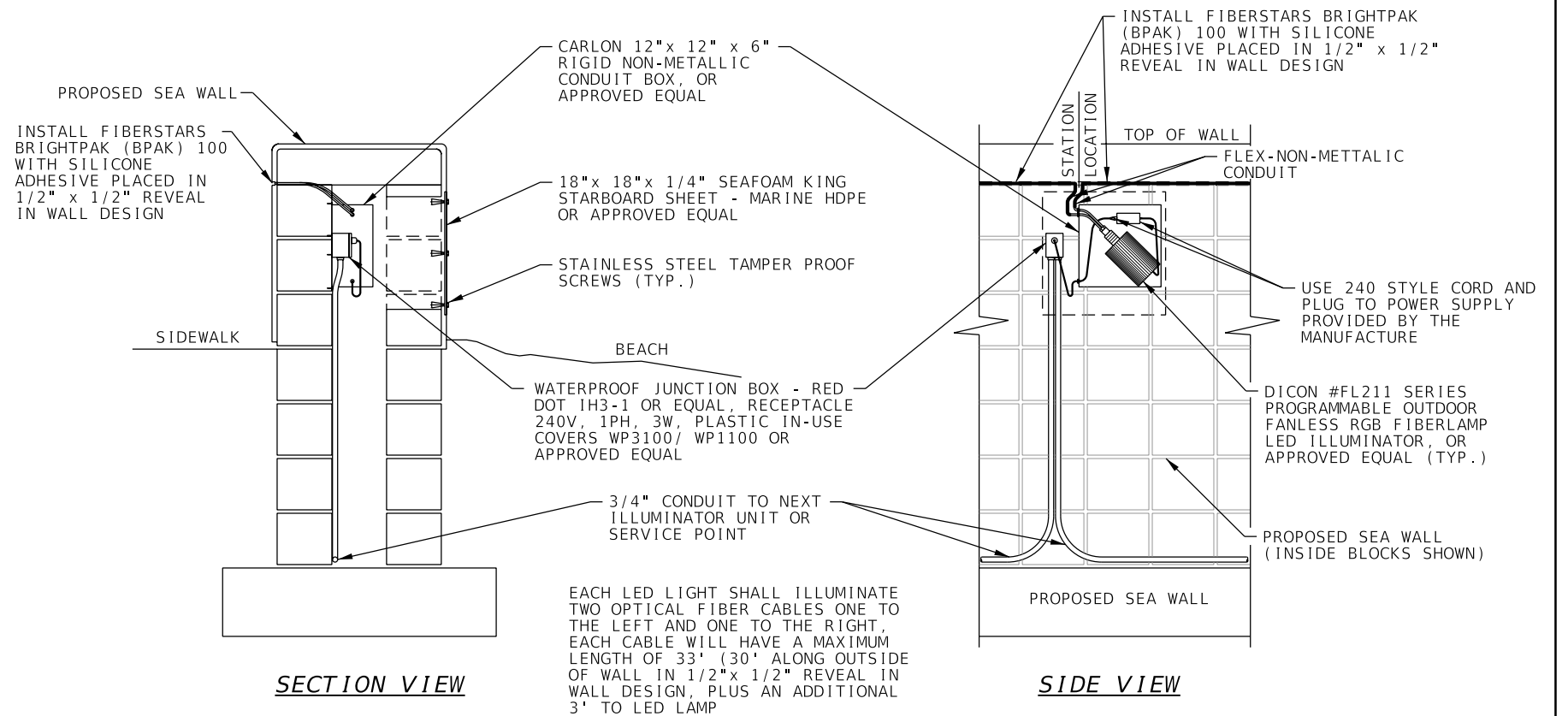
SERVICE CALCULATION
(20.8A X 1.25) = 26 A

REVISIONS				ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SERVICE POINT DETAILS
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	

LED ILLUMINATOR TABLE				
WALL NO.	LED NAME	CIRCUIT	STATION	STATION OFFSET SIDE
1	LED-01	A-4	609+46	RT.
	LED-02	A-4	610+06	RT.
	LED-03	A-4	610+66	RT.
	LED-04	A-4	611+26	RT.
	LED-05	A-4	611+85	RT.
	LED-06	A-4	612+50	RT.
	LED-07	A-4	613+10	RT.
	LED-08	A-4	613+61	RT.
2	LED-09	A-4	614+31	RT.
	LED-10	A-4	614+91	RT.
	LED-11	A-4	615+51	RT.
	LED-12	A-4	616+11	RT.
	LED-13	A-4	616+69	RT.
3	LED-14	A-4	617+24	RT.
	LED-15	A-4	617+84	RT.
	LED-16	A-5	618+44	RT.
	LED-17	A-5	619+04	RT.
	LED-18	A-5	619+63	RT.
4	LED-19	A-5	620+20	RT.
	LED-20	A-5	620+80	RT.
	LED-21	A-5	621+40	RT.
	LED-22	A-5	622+00	RT.
	LED-23	A-5	622+60	RT.
5	LED-24	B-5	623+31	RT.
	LED-25	B-5	623+91	RT.
	LED-26	B-5	624+51	RT.
	LED-27	B-5	625+10	RT.
	LED-28	B-5	625+69	RT.
	LED-29	B-5	626+29	RT.
6	LED-30	B-5	627+00	RT.
	LED-31	B-5	627+60	RT.
	LED-32	B-5	628+19	RT.
	LED-33	B-5	628+80	RT.
	LED-34	B-5	629+41	RT.
	LED-35	B-5	630+01	RT.
	LED-36	B-5	630+61	RT.
	LED-37	B-5	631+21	RT.
	LED-38	B-6	631+81	RT.
	LED-39	B-6	632+41	RT.
7	LED-40	B-6	632+97	RT.
	LED-41	B-6	633+57	RT.
	LED-42	B-6	634+17	RT.
	LED-43	B-6	634+77	RT.
	LED-44	B-6	635+37	RT.
8	LED-45	B-6	636+05	RT.
	LED-46	B-6	636+67	RT.
	LED-47	B-6	637+28	RT.
	LED-48	B-6	637+90	RT.
	LED-49	B-6	638+50	RT.
9	LED-50	B-6	639+50	RT.
	LED-51	B-6	640+09	RT.
	LED-52	B-6	640+69	RT.
	LED-53	B-6	641+28	RT.
	LED-54	B-6	641+79	RT.

LED ILLUMINATOR TABLE (CONT'D)				
WALL NO.	LED NAME	CIRCUIT	STATION	STATION OFFSET SIDE
10	LED-55	C-5	642+31	RT.
	LED-56	C-5	642+91	RT.
	LED-57	C-5	643+50	RT.
	LED-58	C-5	644+10	RT.
	LED-59	C-5	644+69	RT.
11	LED-60	C-5	645+30	RT.
	LED-61	C-5	645+90	RT.
	LED-62	C-5	646+49	RT.
	LED-63	C-5	647+09	RT.
	LED-64	C-5	647+68	RT.
12	LED-65	C-5	648+34	RT.
	LED-66	C-5	648+94	RT.
	LED-67	C-5	649+53	RT.
	LED-68	C-5	650+13	RT.
13	LED-69	C-5	650+99	RT.
	LED-70	C-6	651+59	RT.
	LED-71	C-6	652+18	RT.
	LED-72	C-6	652+78	RT.
	LED-73	C-6	653+34	RT.
14	LED-74	C-6	653+91	RT.
	LED-75	C-6	654+50	RT.
	LED-76	C-6	655+10	RT.
	LED-77	C-6	655+69	RT.
	LED-78	C-6	656+28	RT.
15	LED-79	C-6	656+92	RT.
	LED-80	C-6	657+51	RT.
	LED-81	C-6	658+10	RT.
	LED-82	C-6	658+69	RT.
	LED-83	C-6	659+28	RT.
16	LED-84	D-3	659+99	RT.
	LED-85	D-3	660+59	RT.
	LED-86	D-3	661+18	RT.
	LED-87	D-3	661+78	RT.
	LED-88	D-3	662+23	RT.
17	LED-89	D-3	662+79	RT.
	LED-90	D-3	663+39	RT.
	LED-91	D-3	663+96	RT.
	LED-92	D-3	664+52	RT.
	LED-93	D-3	664+98	RT.
18	LED-94	D-3	665+35	RT.

CUSTOM PRE-ASSEMBLED ENCLOSURE BY FLORIDA ARCHITECTURAL LIGHT OR APPROVED EQUAL TO INCLUDE:
 CARLON 12"x 12" x 6" RIGID NON-METALLIC CONDUIT BOX WITH WATERPROOF FITTINGS
 DICON #FL211 SERIES LED LAMP WITH POWER SUPPLY AND CABLES
 WATER PROOF JUNCTION BOX, RECEPTACLE AND COVER



LED ILLUMINATOR MOUNTING DETAIL
 N.T.S.

NOTE:
 SEE PLAN SHEETS FOR CONDUCTORS SIZES.

REVISIONS		ERDMAN ANTHONY OF FLORIDA, INC. NISAR M. KHAN, P.E., - P.E. LICENSE NUMBER 61004 1402 ROYAL PALM BEACH BLVD., SUITE 500 ROYAL PALM BEACH, FL 33411 PHONE 561-753-9723 FAX 561-753-9724 CERTIFICATE OF AUTHORIZATION 25912		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SEA WALL LED STRIP LIGHTING DETAILS	SHEET NO. L-20
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY		
				A1A	BROWARD	433688-4-52-01	CAM #14-0011

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

INDEX OF STRUCTURE PLANS

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BW-4	TYPICAL WALL DETAILS (2 OF 2)
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BW-6	TYPE C & D ENTRANCE DETAILS
BW-7	TYPE E ENTRANCE DETAILS
BW-8	SHELL WRAP DETAILS
BW-9	COLUMN DETAILS
BW-10	STRUCTURAL DETAILS (1 OF 2)
BW-11	STRUCTURAL DETAILS (2 OF 2)
BW-12	WALL PLANS (1 OF 5)
BW-13	WALL PLANS (2 OF 5)
BW-14	WALL PLANS (3 OF 5)
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BW-17	WALL ELEVATION TABLE
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BW-20	AS-BUILT SHEET PILE PROFILE (3 OF 3)
BW-21	REINFORCING BAR LIST (1 OF 2)
BW-22	REINFORCING BAR LIST (2 OF 2)

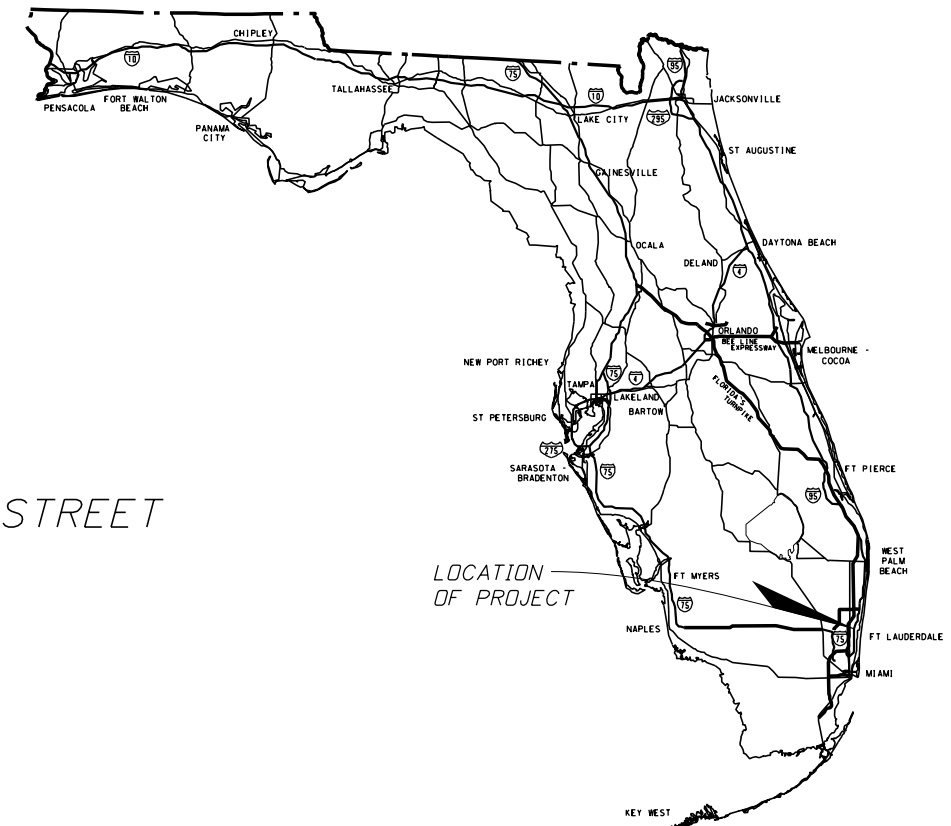
CONTRACT PLANS

FINANCIAL PROJECT ID. 433688-4-52-01

BROWARD COUNTY (86005)

STATE ROAD AIA FROM SUNRISE BLVD. TO NE 18 STREET

STRUCTURE PLANS



STRUCTURE SHOP DRAWINGS
TO BE SUBMITTED TO:
STRUCTURES DESIGN OFFICE
FDOT DISTRICT IV
ATTN: FRED OCHOA, P.E.
3400 WEST COMMERCIAL BLVD.
FORT LAUDERDALE, FL 33309

PLANS PREPARED BY:
EAC CONSULTING, INC.
815 NW 57 AVENUE, SUITE 402
MIAMI, FL 33126

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

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

STRUCTURE PLANS
ENGINEER OF RECORD: K.T. LIN, P.E.

P.E. NO.: 41081

FDOT PROJECT MANAGER : SCOTT PETERSON, P.E.

CAM #14-001 SHEET NO.
EXHIBIT 1
Page 45 of 66
BW-1

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

STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS:

FDOT Structures Manual (January, 2013) and subsequent Structures Temporary Design Bulletins.
Florida Building Code 2010

CONSTRUCTION SPECIFICATIONS:

FDOT Standards Specifications for Road and Bridge Construction 2014

CONTRACTOR NOTES:

Contractor to verify all dimensions prior to construction. Any discrepancies shall be reported to the engineer before proceeding.

Contractor shall submit shop drawings. Approval of shop drawings by the Engineer is for design and layout only, and is not for the purpose of authorizing changes to the contract.

VERTICAL DATUM

All elevations are according to North American vertical Datum of 1988 (NAVD 88)

DESIGN LOADING:

Vehicle: 25 k GVW
Live Load: 60 PSF
Wave Load: 850psf, with a 50 year return period based on report from OEA, Inc. a division of Intera Incorporated. Applies only to the concrete wall attached to the sheet pile. (Sta. 639+49.49 Thru 663+48.48)
Wind Load:
ASCE 7-10
V = 176 MPH
Exposure C
Occupancy Category II

CONCRETE:

All concrete shall be in accordance with Section 346

Concrete Class	Min. 28-Day Compressive Strength (ksi.)	Location of Concrete
IV	5,500	Slabs, Columns, Footing, Stairs

CONCRETE COVER:

	Bottom	Top	Sides
Footings:	4 in	3 in	3 in
Columns:	3 in	3 in	3 in
Interior Slabs-on-Grade:	4 in	3 in	3 in
Exterior Slabs-on-Grade:	4 in	3 in	3 in
Walls:	3 in	3 in	3 in

CONCRETE MASONRY:

All masonry construction to be in accordance with "Building Code Requirements for masonry Structures" ACI 530-02, ACI 530.1, and all applicable local building code provisions. All masonry units shall have an average prism strength $f'_m=1500$ P.S.I. and all masonry walls to be constructed entirely of units conforming to ASTM C90 and reinforced with 9 gage Ladder Truss type horizontal masonry reinforcing located at 16"O.C.

All masonry to be laid in Type "M" Mortar (2500 psi on the job) Except that type "s" (1800 PSI) may be used for the interior non-bearing partition with full head and bed joints. All masonry construction to be either bound by tie beam, tie column members and tied to frame by extending horizontal joint reinforcing a minimum of 4" into concrete tie column. Provide 12 gage galvanized dovetail triangular ties at 16"O.C. where concrete frame is placed prior to masonry, unless noted otherwise in drawings.

Grout for grouting cells shall have a minimum compressive strength of 3,000 PSI or the block strength whichever is greater and shall be in accordance with ASTM C476-01. Grout to have a slump between 8" to 11".

A special inspector, retained by the owner, shall inspect and supervise the construction of reinforced masonry per ACI 530.1

ENVIRONMENT:

Extremely Aggressive.

REINFORCING STEEL:

All reinforcing steel bars shall be ASTM A615, Grade 60. Shop Drawings required.
All welded steel wire fabric shall be in accordance with section 931-1.2

BOLTS:

All bolts shall be stainless steel ASTM A325.

FILL:

A special inspector, retained by the owner, shall inspect and supervise the compaction of fill under slabs on grade. The fills shall be compacted to a minimum of 95% of maximum dry density for all layers as verified by field density tests made in accordance with ASTM 318.

UTILITIES:

The utilities shown in the plans are at approximate locations. The contractor shall verify all the utility locations prior to starting any work.

JOINTS IN CONCRETE:

Construction joints will be permitted only at locations indicated on the plans. Additional construction joints or alterations to those shown shall require approval of the engineer.

SOIL STATEMENT:

As per the geotechnical report by Ferracon Consultants, Inc., dated September 27, 2013, the allowable soil bearing pressure is 2,500 PSF. Contractor should follow the geotechnical recommendation of this report.

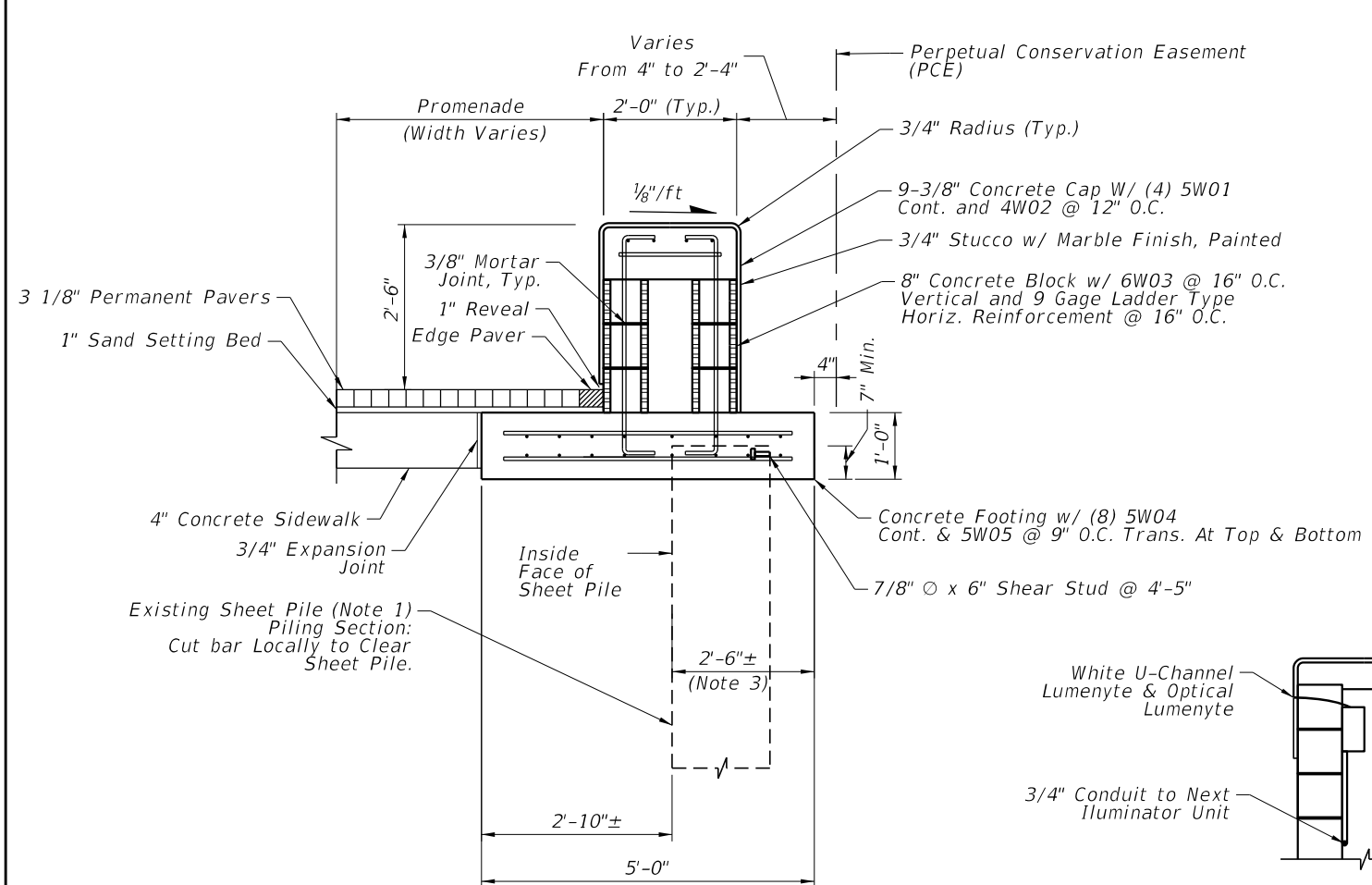
GENERAL:

All details and sections shown on the drawings are intended to be typical and shall be constructed to apply to any similar situations at other locations than that specifically indicated.

FINISH PAINTING:

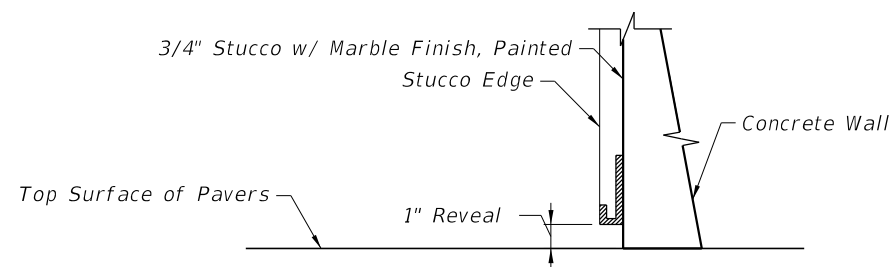
Colors: to match existing white semi-gloss color of the existing wave wall south of the project.
Warranty: Manufacturer and contractor shall provide a (1) Unlimited warranty for labor and product defects.
Contractor's qualifications: Contractor shall have a minimum of (3) years industrial coatings job experience documented and provide (2) job references in similar industrial coatings jobs.

REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM CA#7011	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					A1A	BROWARD	433688-4-52-01	GENERAL NOTES

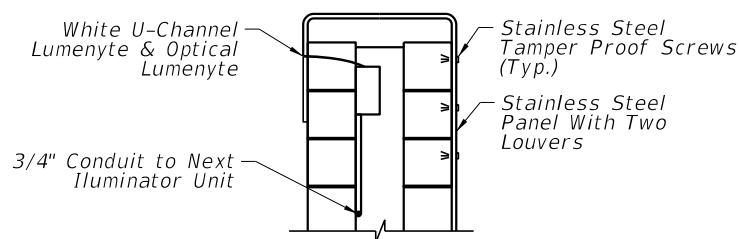


TYPICAL DECORATIVE WALL SECTION WITH EXISTING SHEET PILE

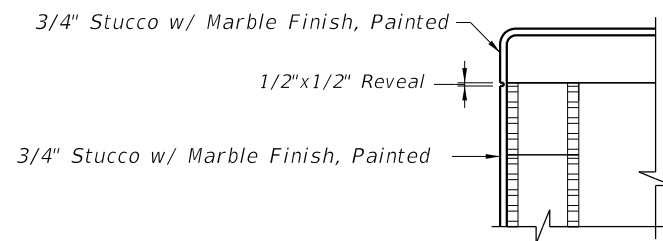
- Note 1: In areas where the existing sheet pile may be interfering with the wall construction, the contractor shall notify the Engineer before commencing the construction. No existing sheet pile can be cut before approval by the Engineer. See as-built sheet pile profile (Sheets BW-18 to BW-20) for sheet pile elevations.
- 2: Cut bar locally to clear sheetpile
- 3: See Sheet BW-12 Thru BW-16 For Sheet Pile Location. Actual Dimension May Deviate Slightly From 2'-6"
- 4: For Wall and Footing Elevation, See Sheet BW-17



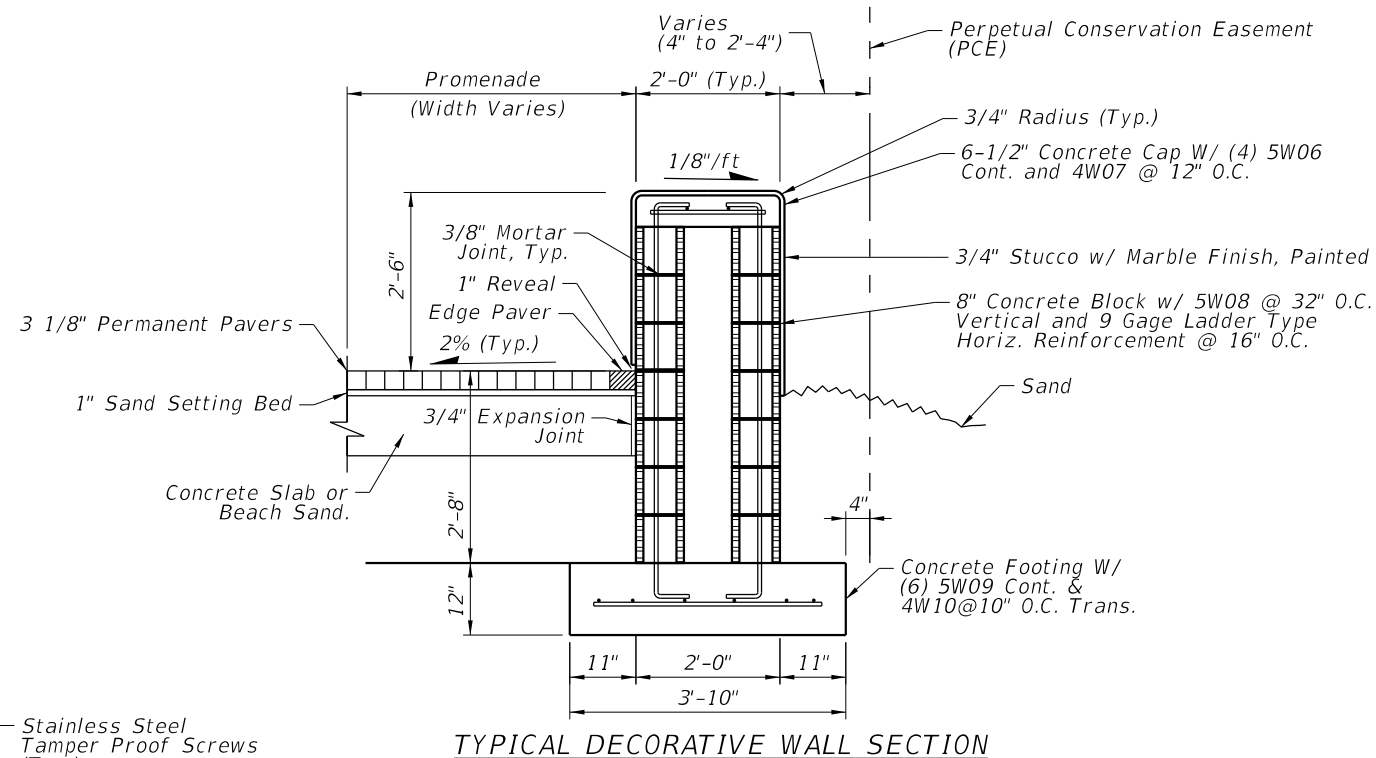
WALL REVEAL DETAIL



WALL LIGHTING SECTION

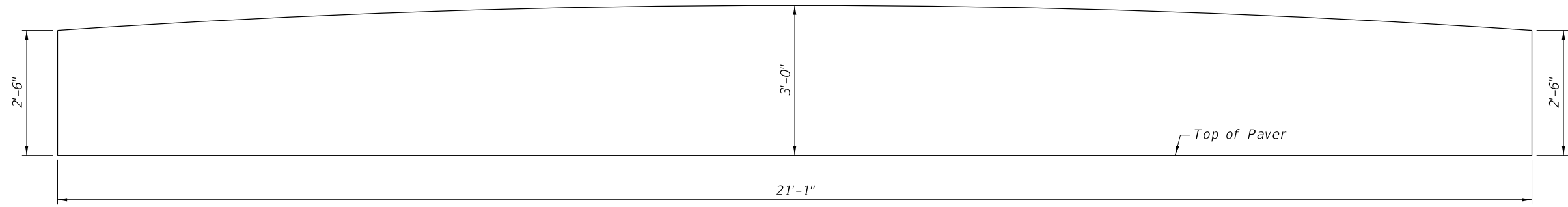


STUCCO REVEAL DETAIL

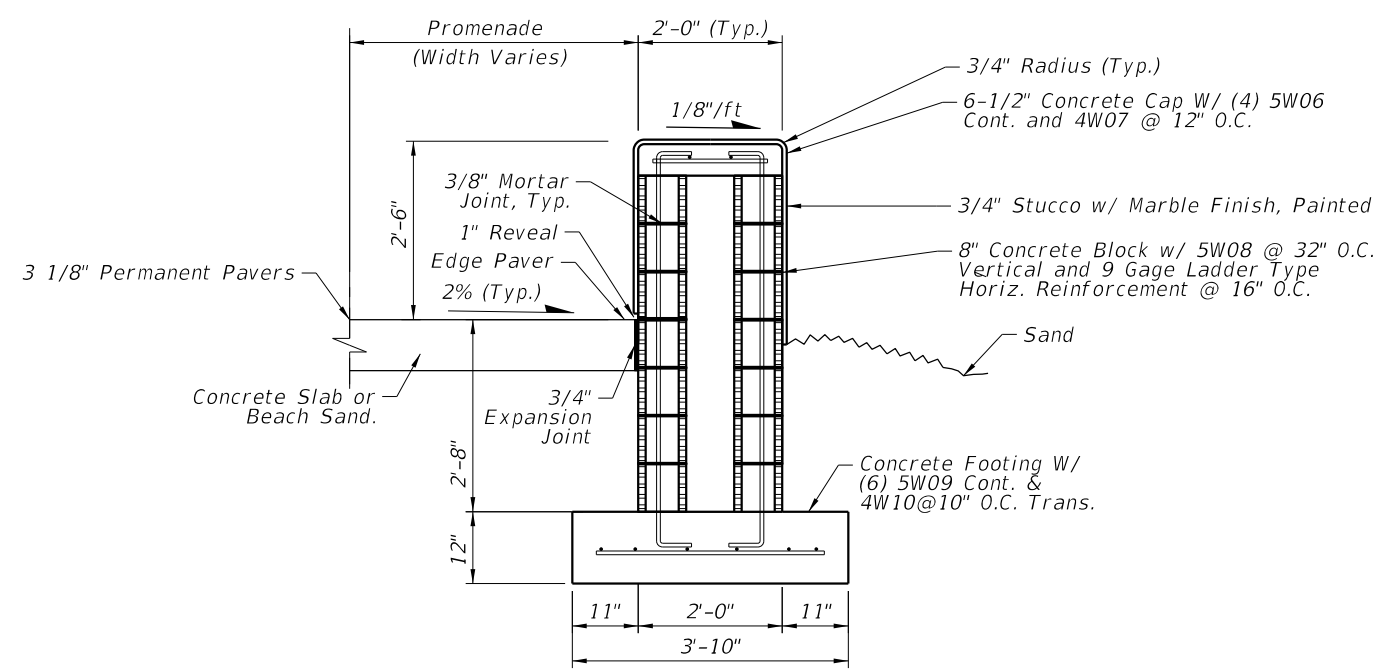


TYPICAL DECORATIVE WALL SECTION

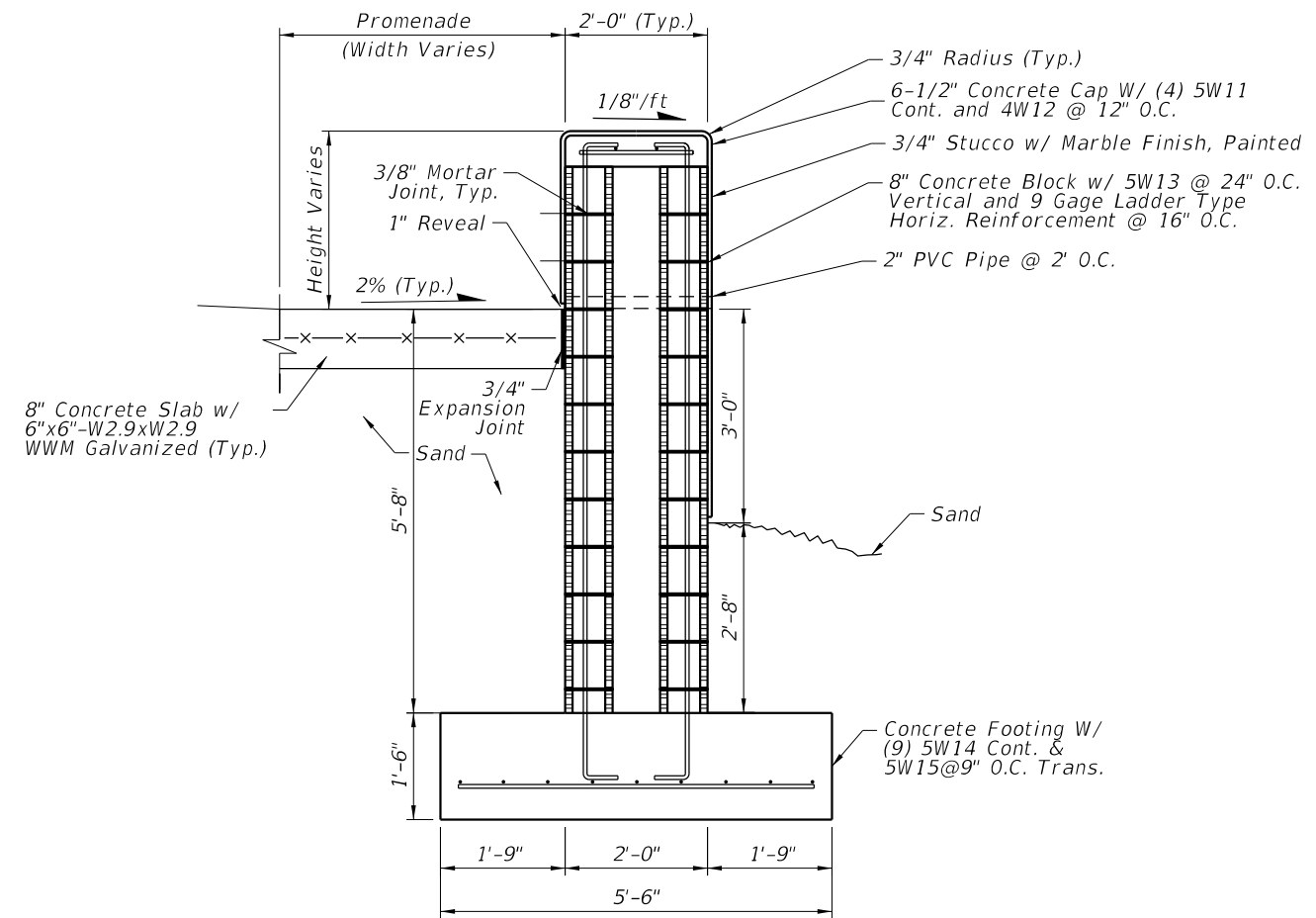
REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL WALL DETAILS (1 OF 2)	SHEET NO. CAM #14-0011 EXHIBIT BW-3 Page 47 of 66
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CA#7011	A1A	BROWARD	433688-4-52-01		



BACK WALL ELEVATION



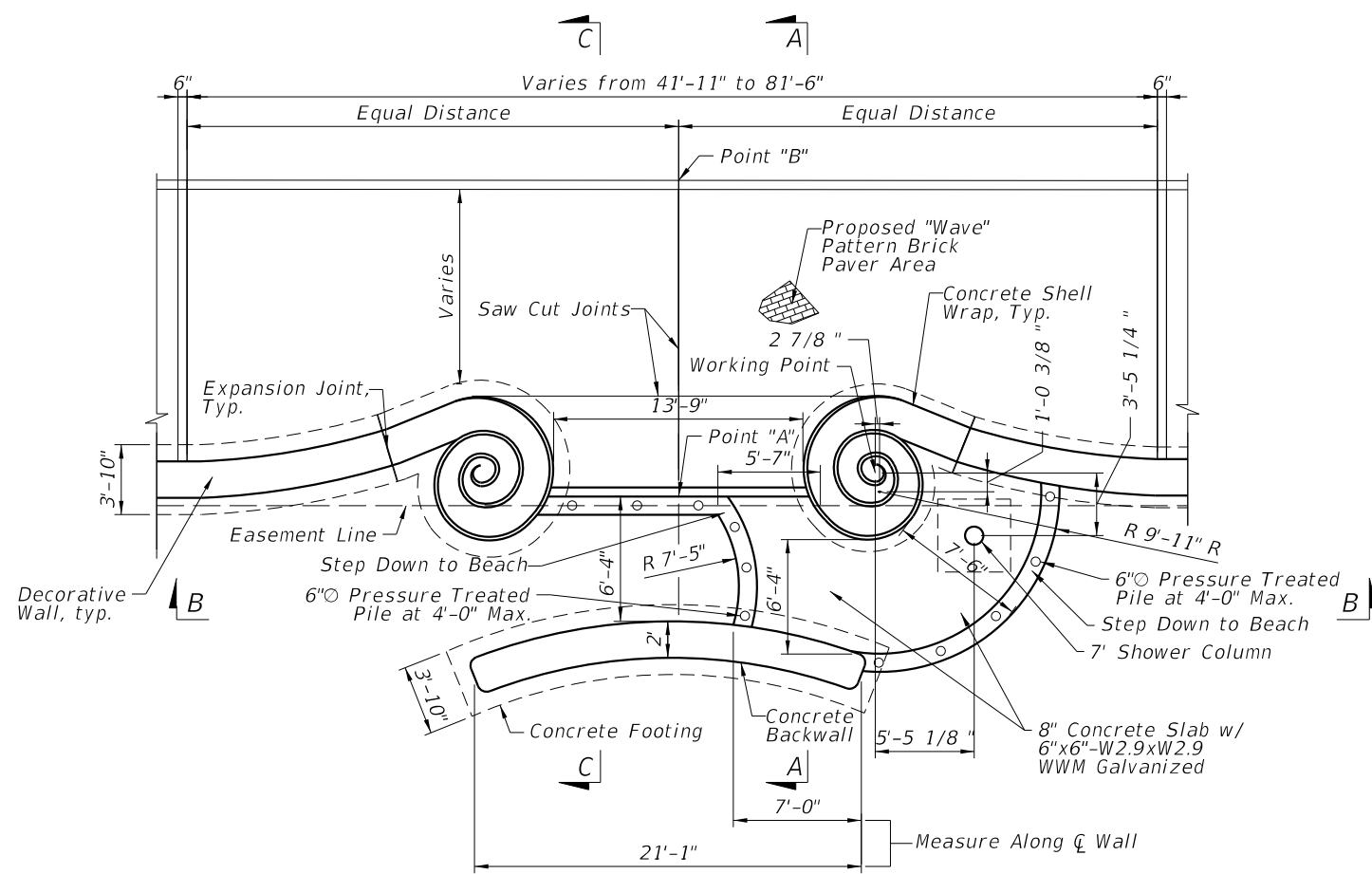
TYPICAL BACKWALL SECTION



SECTION F-F

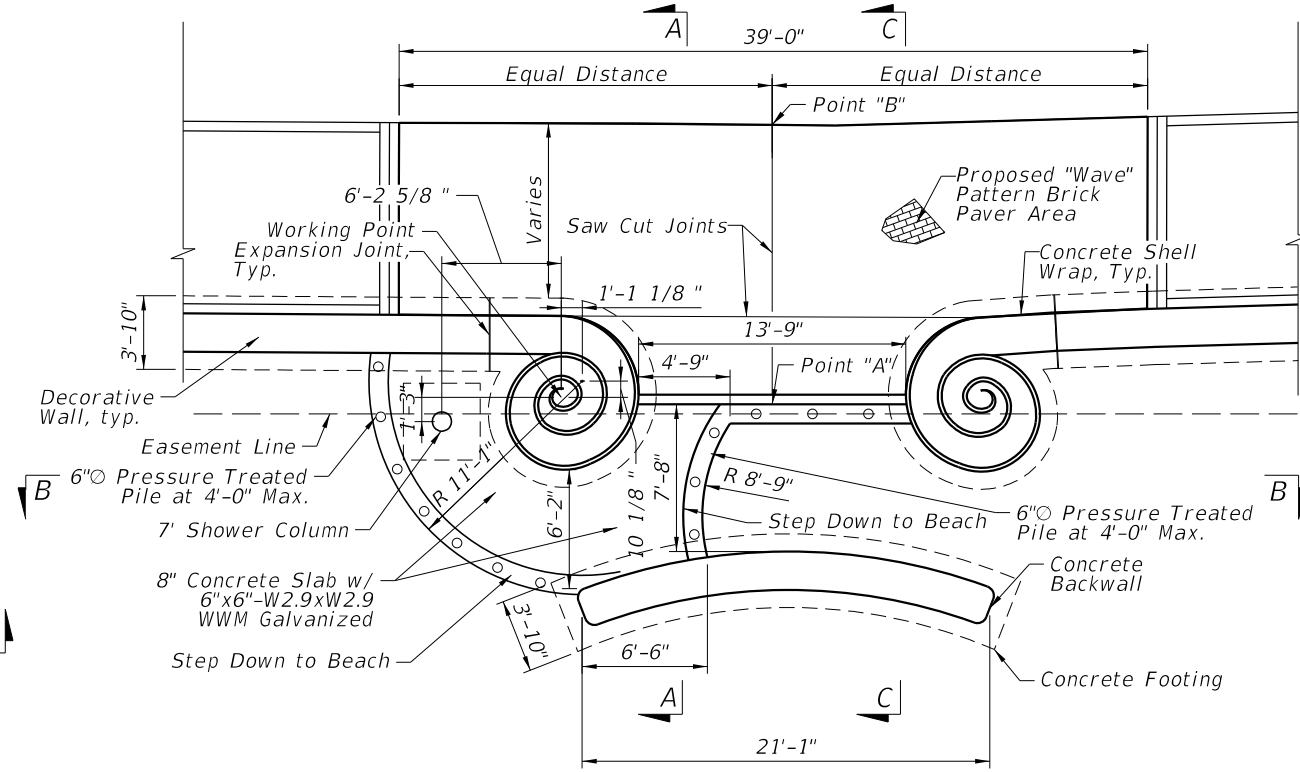
For Location of Section F-F, See Sheet BW-6

REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH. AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL WALL DETAILS (2 OF 2)	SHEET NO. CAM #14-0011 EXHIBIT 1 Page 48 of 66
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CA#7011	A1A	BROWARD	433688-4-52-01	BW-4	



TYPE A ENTRY

(MINOR ENTRANCE WITHOUT SHEET PILE)



TYPE B ENTRY

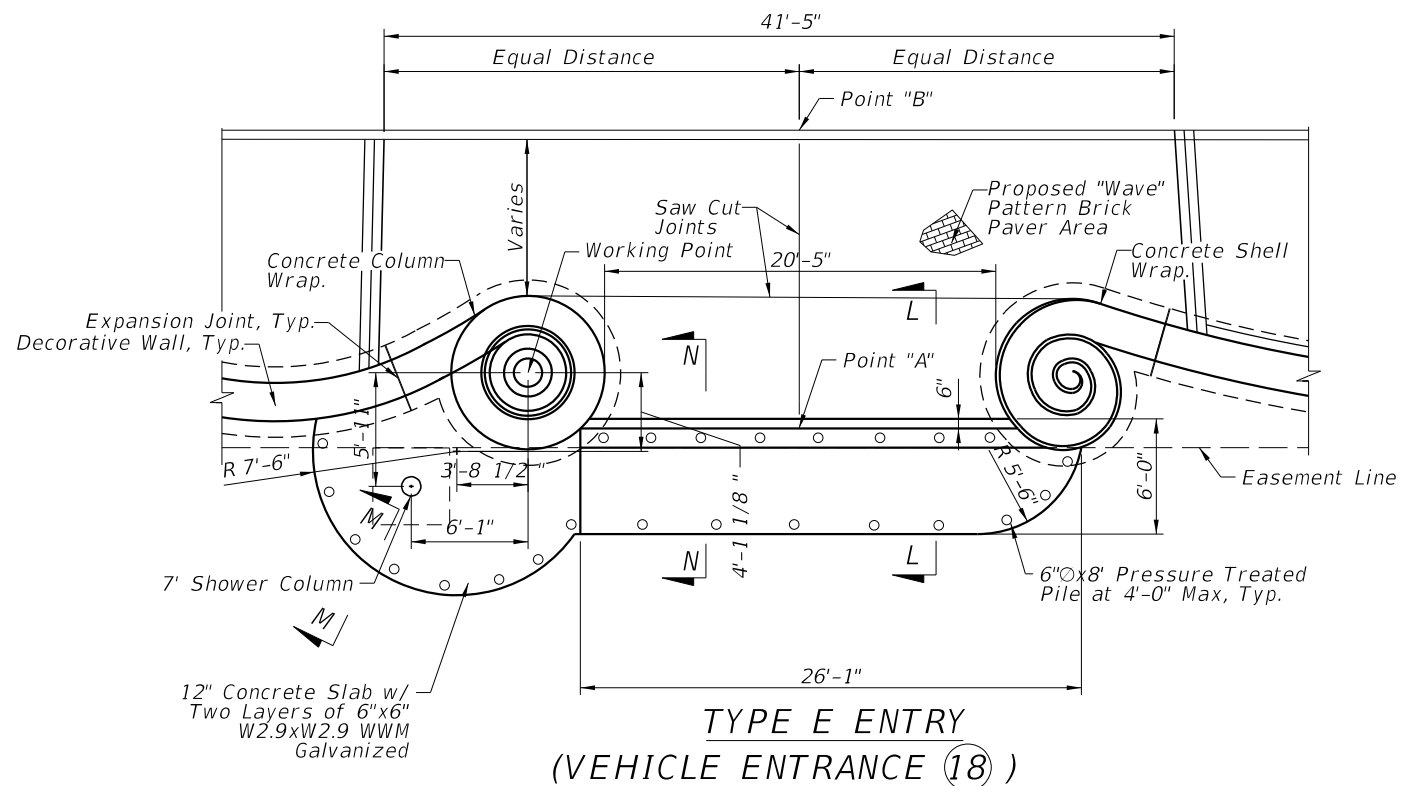
(MINOR ENTRANCE WITH STRAIGHT WALL CONFIGURATION)

Entry Number	Entry Type	Distance from Point "A" to Easement Line	Distance from Point "A" to "B"	Shower Location
1	E	6'-6"	13'-5"	North Side
2	C	8'-9"	21'-6"	South Side
3	B	6"	15'-1"	South Side
4	A	6'-3"	15'-9"	North Side
5	A	4"	18'-8"	South Side
6	A	4"	11'-8"	North Side
7	A	4"	12'-2"	North Side
8	A	4"	12'-2"	North Side
9	E	1'-3"	15'-4"	North Side
10	D	7'-6"	12'-8"	North Side
11	D	7'-4"	12'-8"	North Side
12	D	7'-3"	19'-3"	South Side
13	D	7'-4"	12'-8"	North Side
14	D	7'-4"	12'-11"	North Side
15	D	7'-4"	12'-7"	North Side
16	D	7'-4"	19'-2"	North Side
17	D	6'-8"	13'-4"	North Side
18	E	1'-6"	15'	South Side

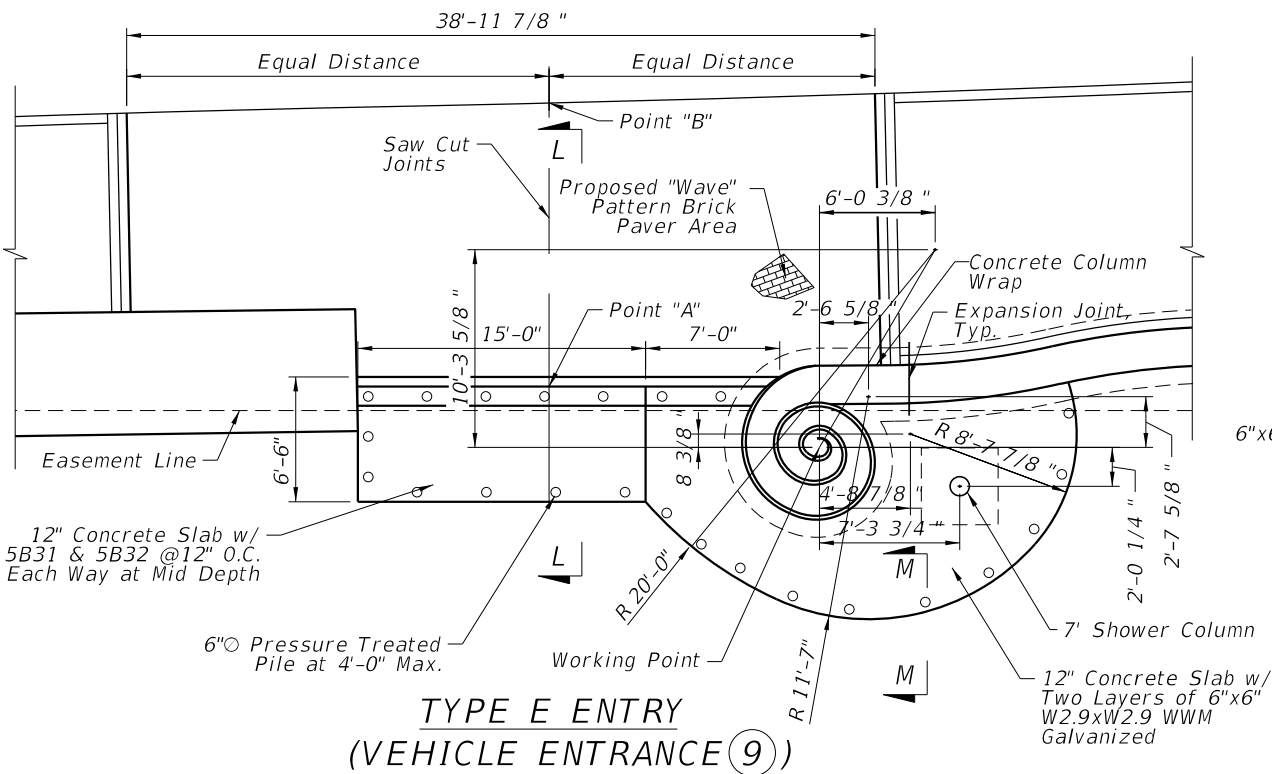
Notes:

- For Shell Wrap Details, See Sheet BW-8.
- For Column Details, See Sheet BW-9.
- For Concrete Back Wall Elevation, See Sheet BW-4
- For Concrete Back Wall Details, See Sheet BW-4
- For Decorative Wall Detail, See Sheet BW-3
- For Section A-A, See Sheet BW-10
- For Section B-B, See Sheet BW-10
- For Section C-C, See Sheet BW-10
- For Shower Column Details, See Sheet BW-11
- Legend designates 4" Rise in Step. See Section B-B on Sheet BW-10
- In areas where the existing sheet pile may be interfering with the wall construction, the contractor shall notify the Engineer before commencing the construction. No existing sheet pile can be cut before approval by the Engineer. See as-built sheet pile profile (Sheets BW-18 to BW-20) for sheet pile elevations.
- Cut bar locally to clear sheetpile
- For Points "A" & "B" See Entry Dimension Table on This Sheet

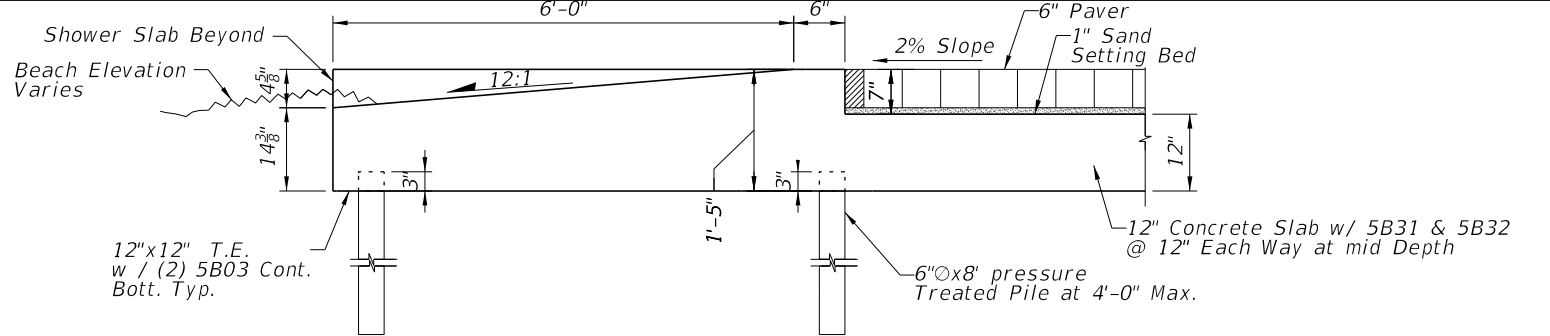
REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPE A & B ENTRANCE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		CAM #14-0011 EXHIBIT 1 Page 49 of 66
				A1A	BROWARD	433688-4-52-01	BW-5		



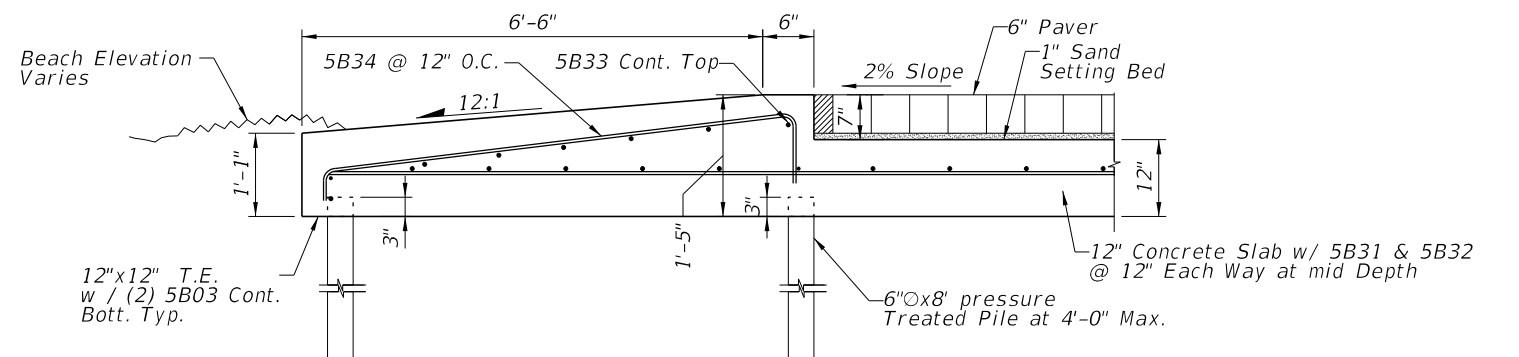
**TYPE E ENTRY
(VEHICLE ENTRANCE 18)**



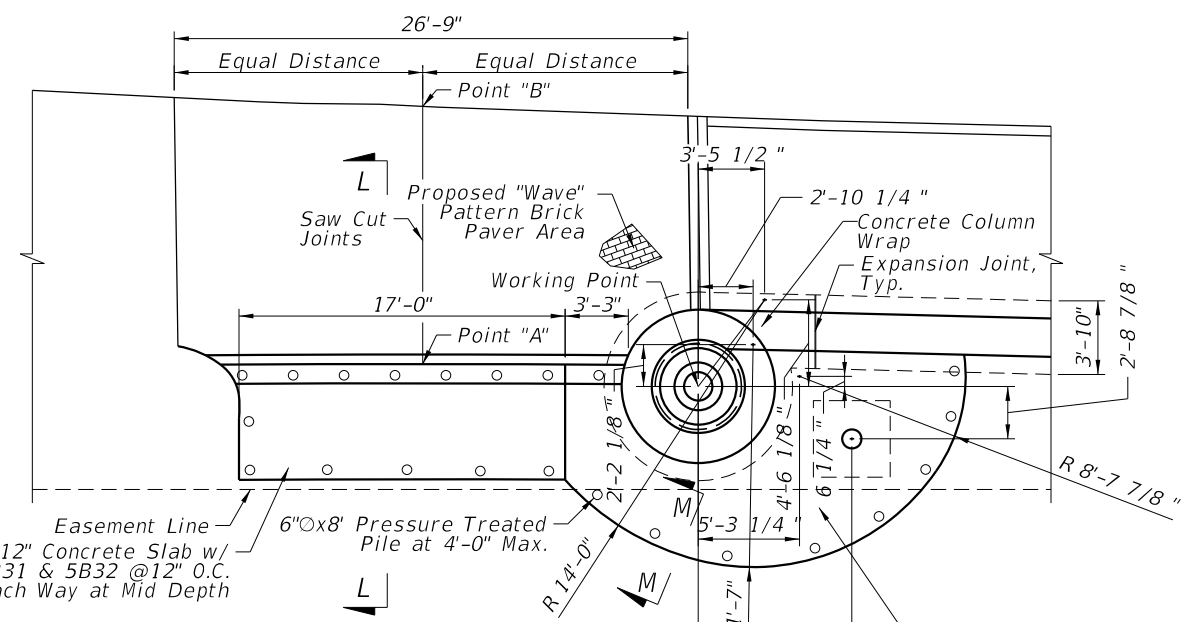
**TYPE E ENTRY
(VEHICLE ENTRANCE 9)**



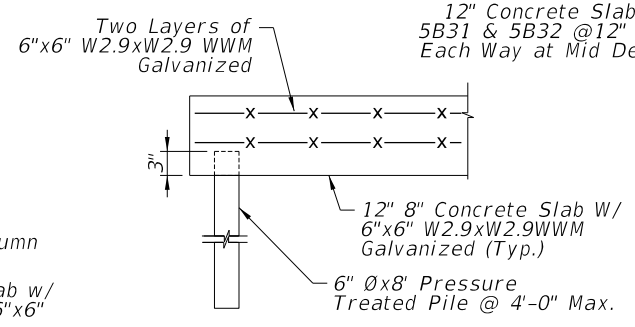
**SECTION N-N
(REINF. STEEL NOT SHOWN)**



SECTION L-L



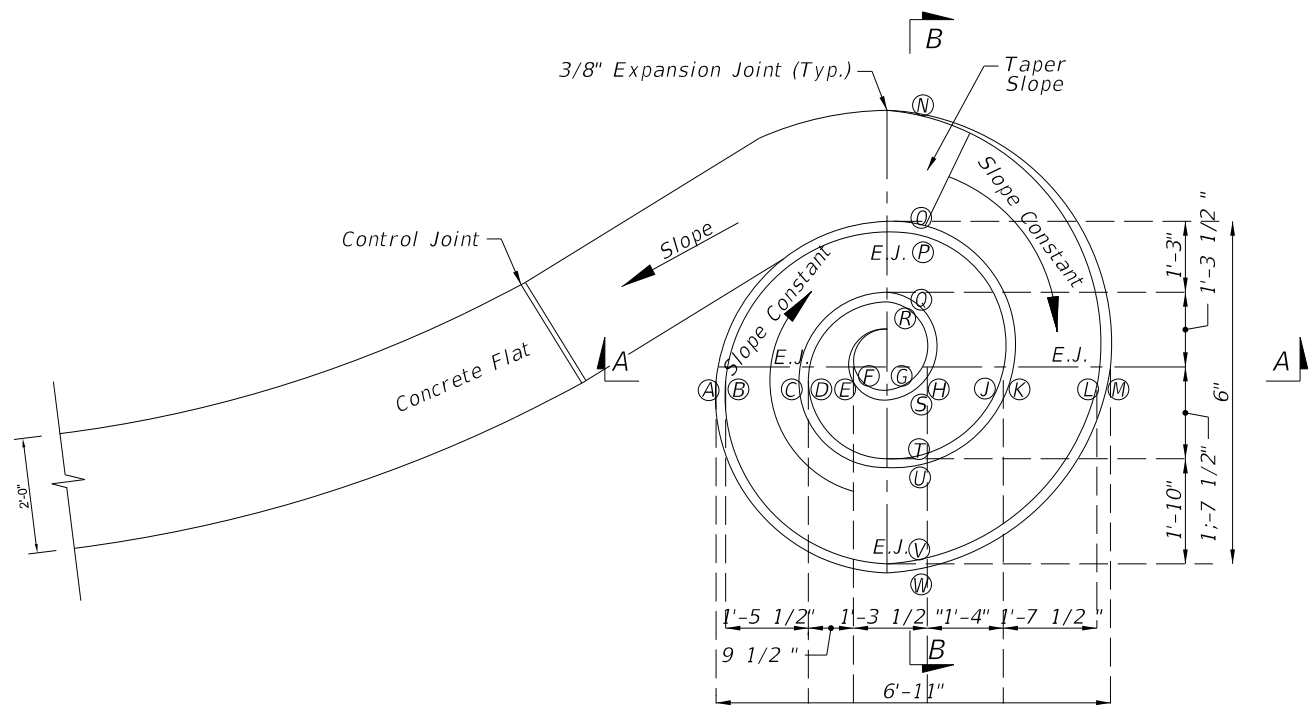
**TYPE E ENTRY
(VEHICLE ENTRANCE 1)**



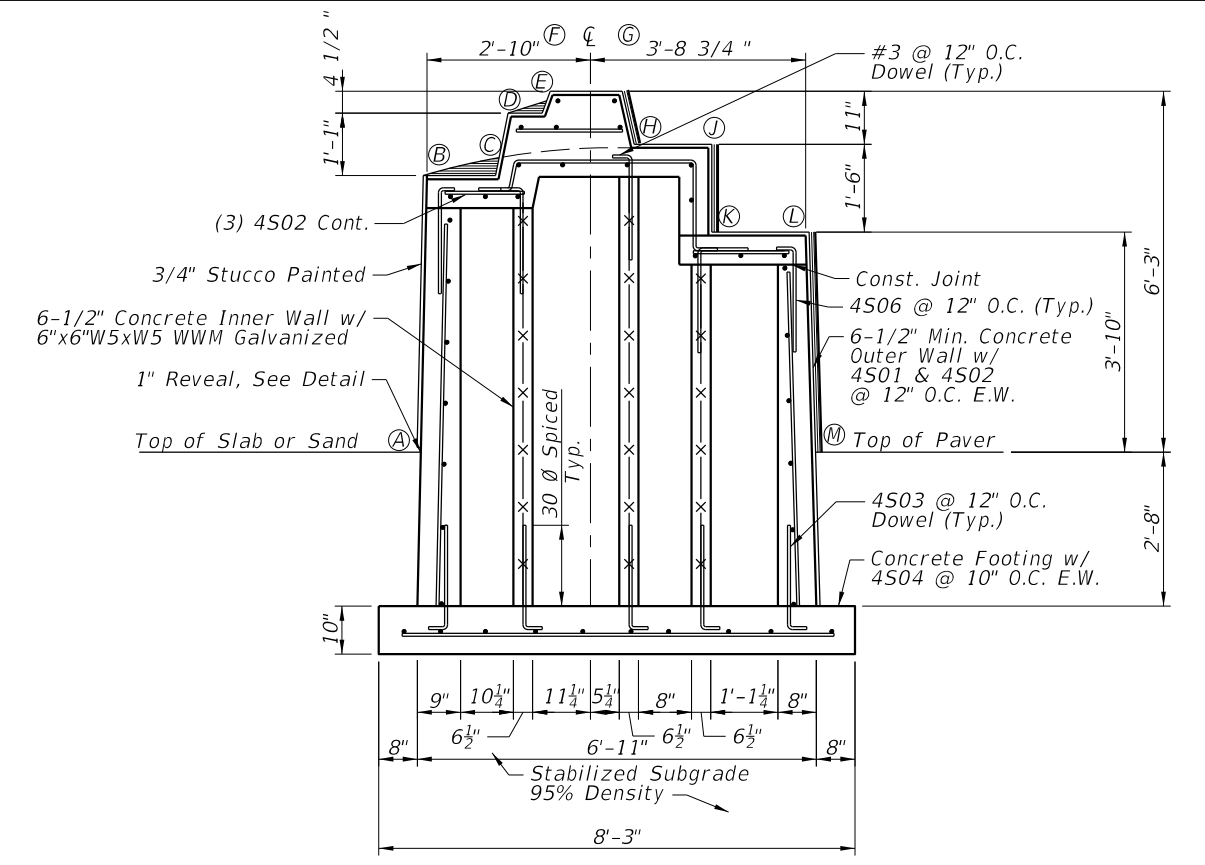
SECTION M-M

- Notes:
 1. For Shell Wrap Details, See Sheet BW-8.
 2. For Column Details, See Sheet BW-9.
 3. For Points "A" & "B" Information, See Entry Dimension Table on Sheet BW-7.

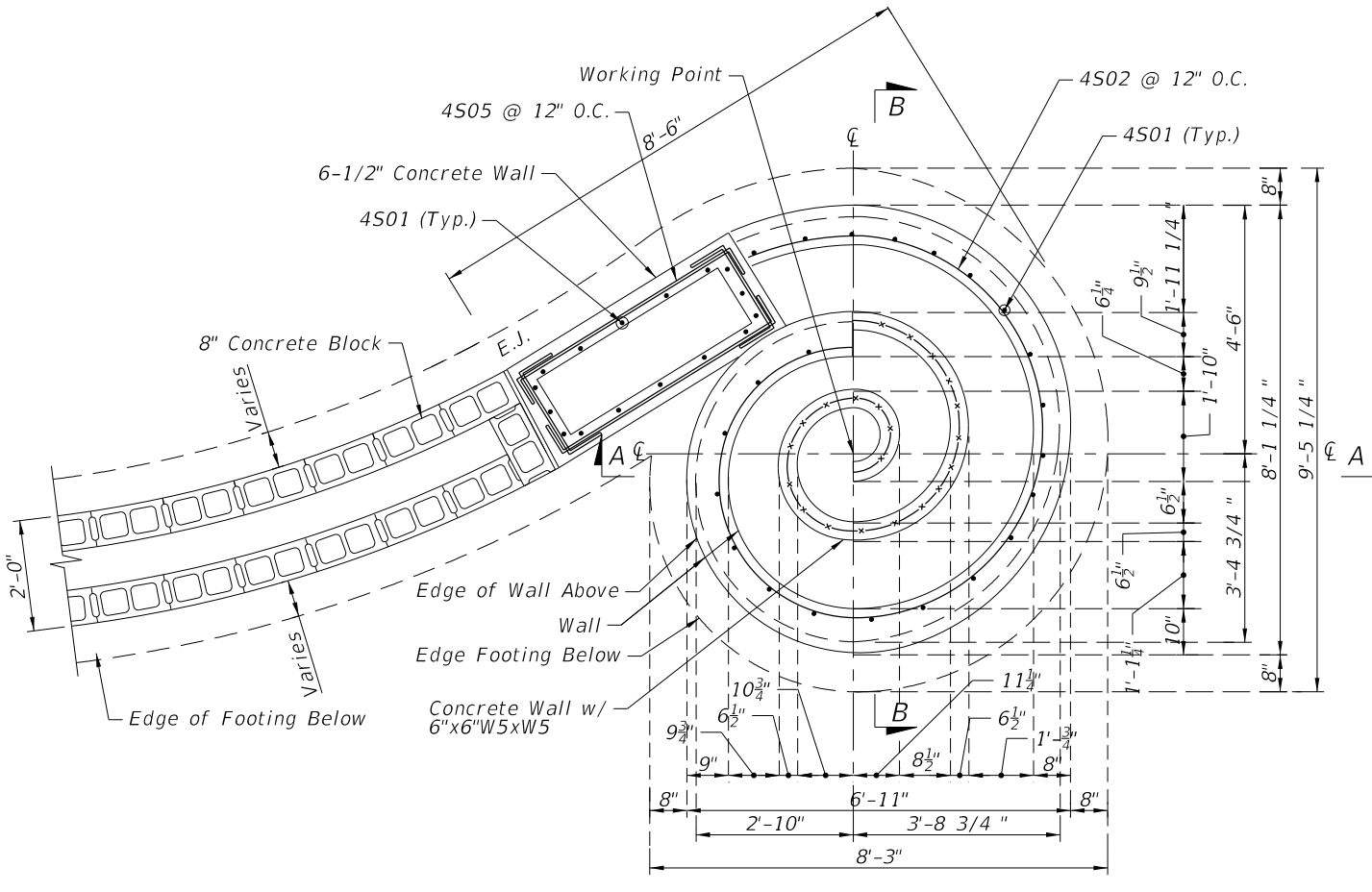
REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH. AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	TYPE E ENTRANCE DETAILS CAM #14-0011 EXHIBIT 1 BW-7 Page 51 of 66



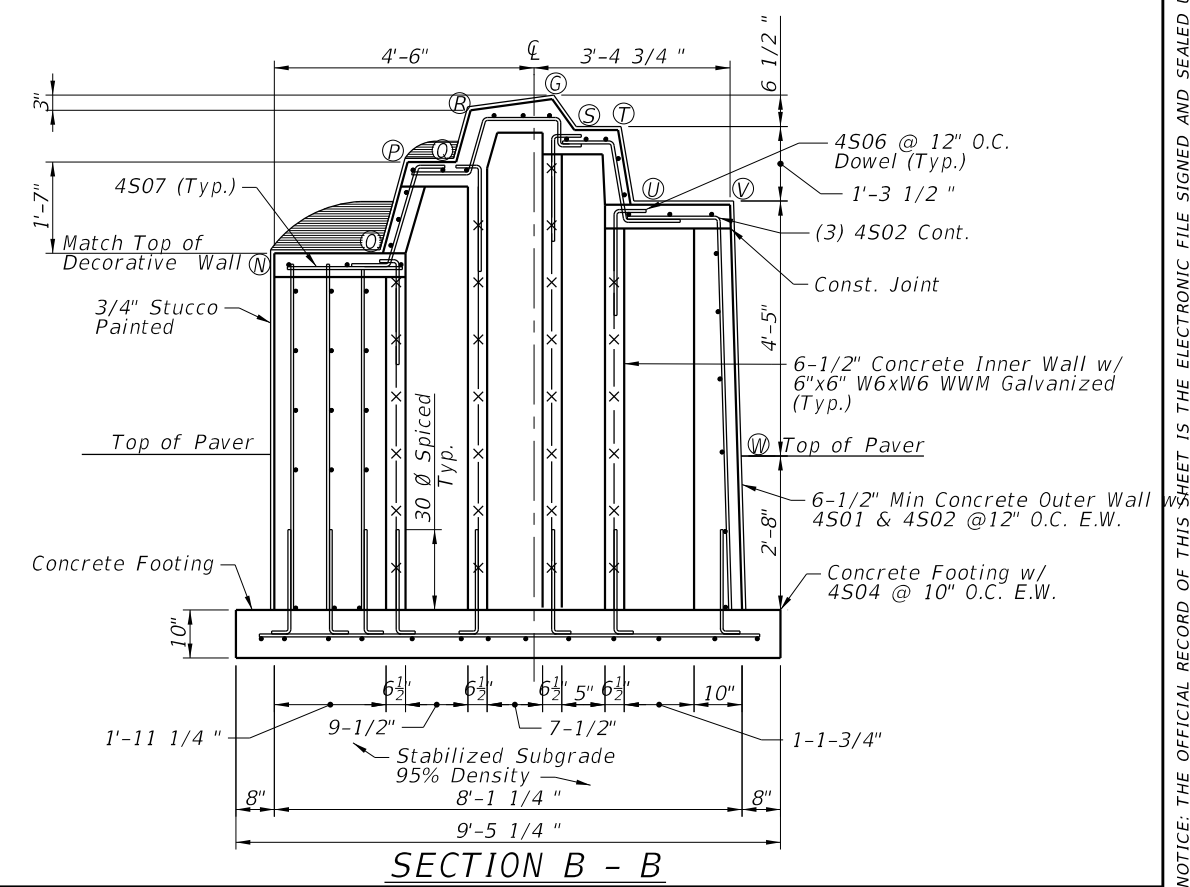
SHELL WRAP PLAN



SECTION A - A



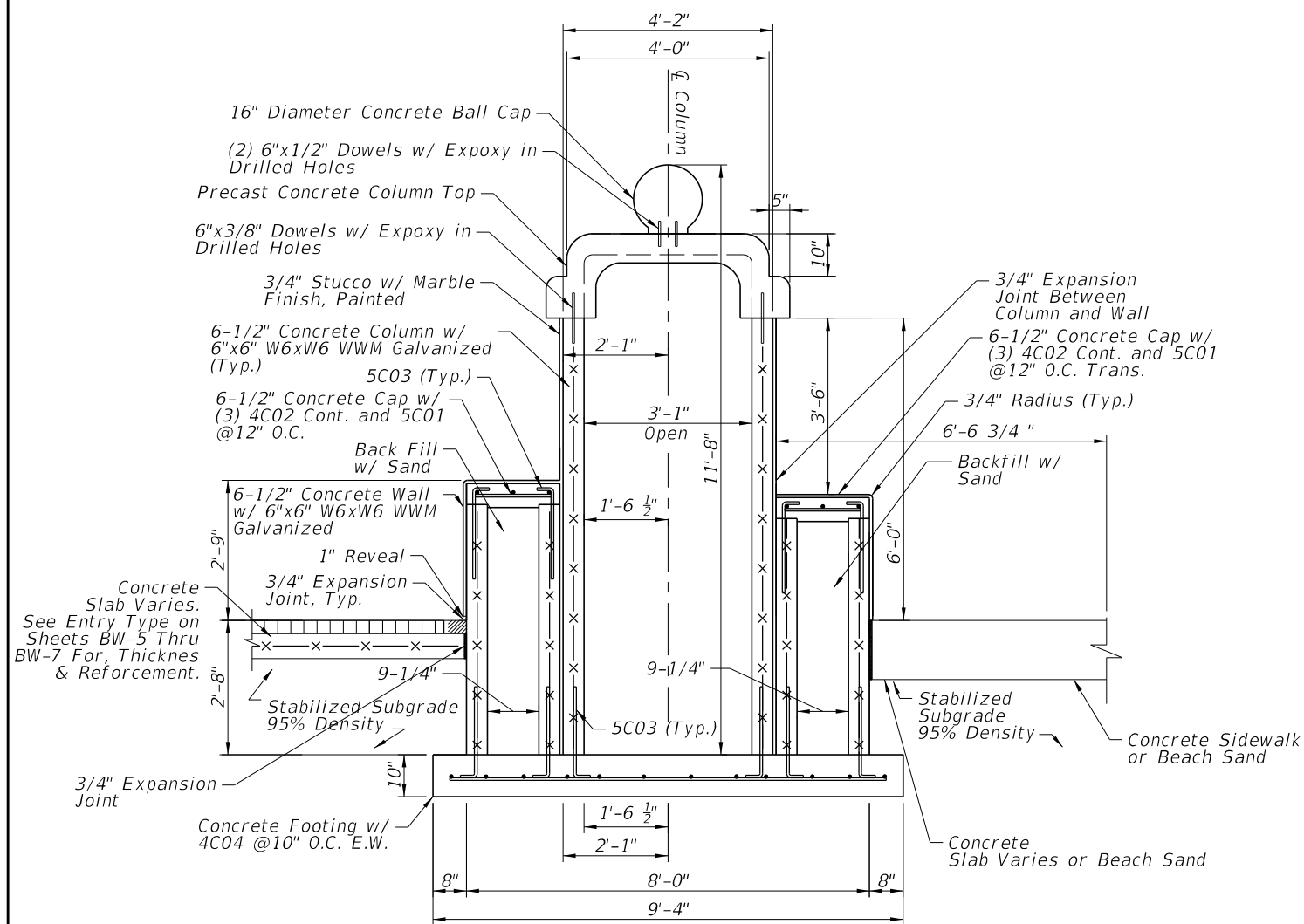
SHELL WRAP FOUNDATION PLAN



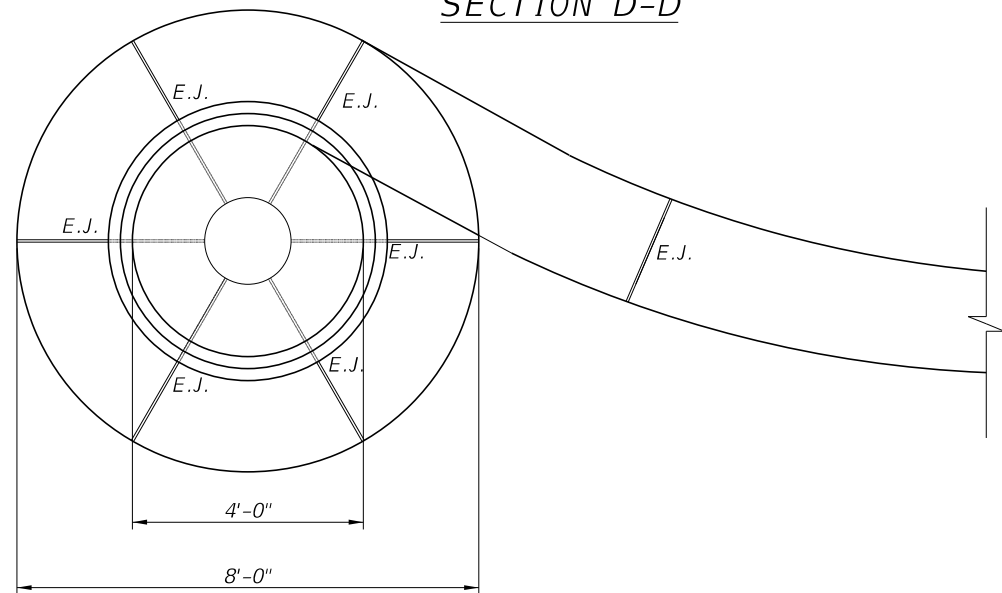
SECTION B - B

REVISIONS				EAC CONSULTING, INC. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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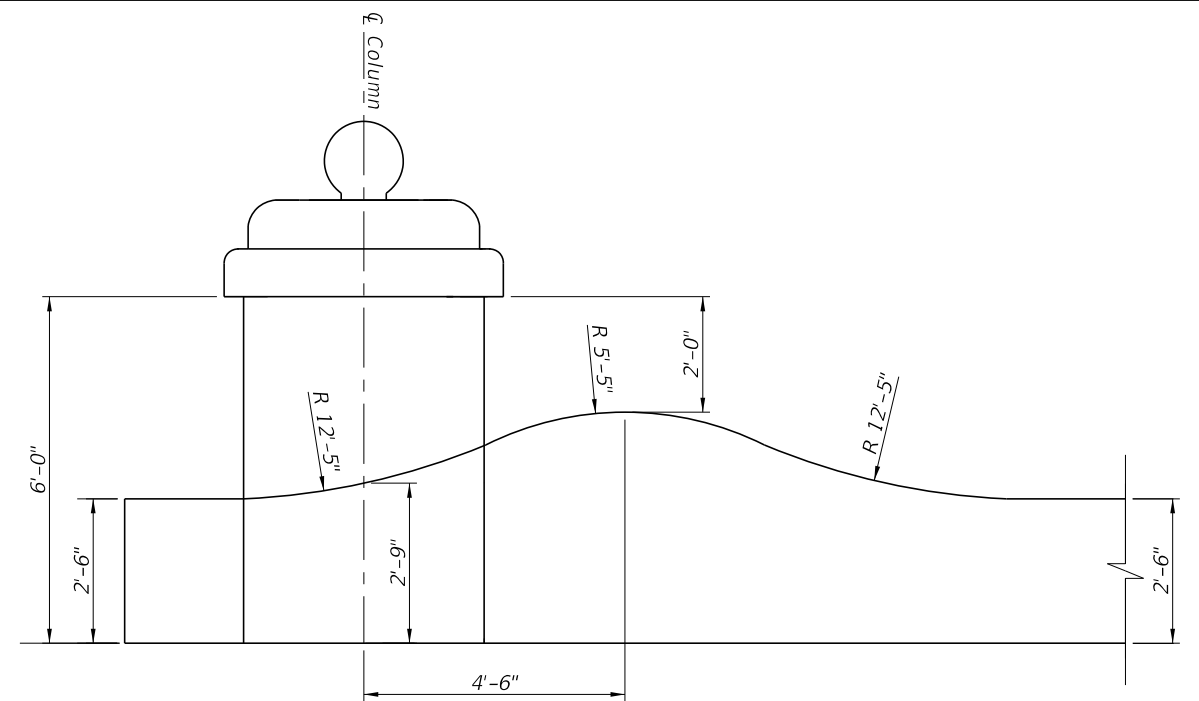
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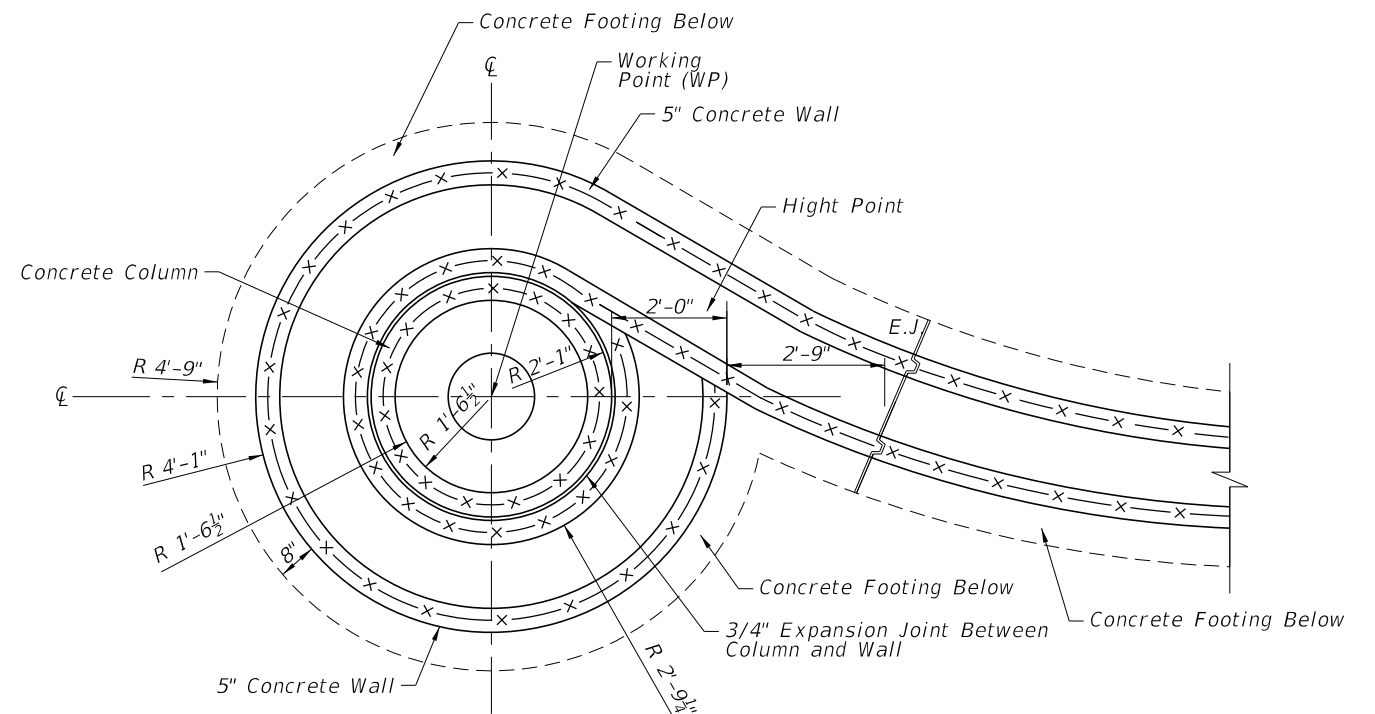
COLUMN SECTION D-D



COLUMN PLAN



COLUMN WRAP ELEVATION



COLUMN FOUNDATION PLAN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EAC CONSULTING, INC.
 815 N.W. 57TH AVENUE, SUITE 402
 MIAMI, FL 33126
 305-265-2557
 K.T. LIN, P.E.
 P.E. LIC. 41081
 WWW.EACCONSULT.COM

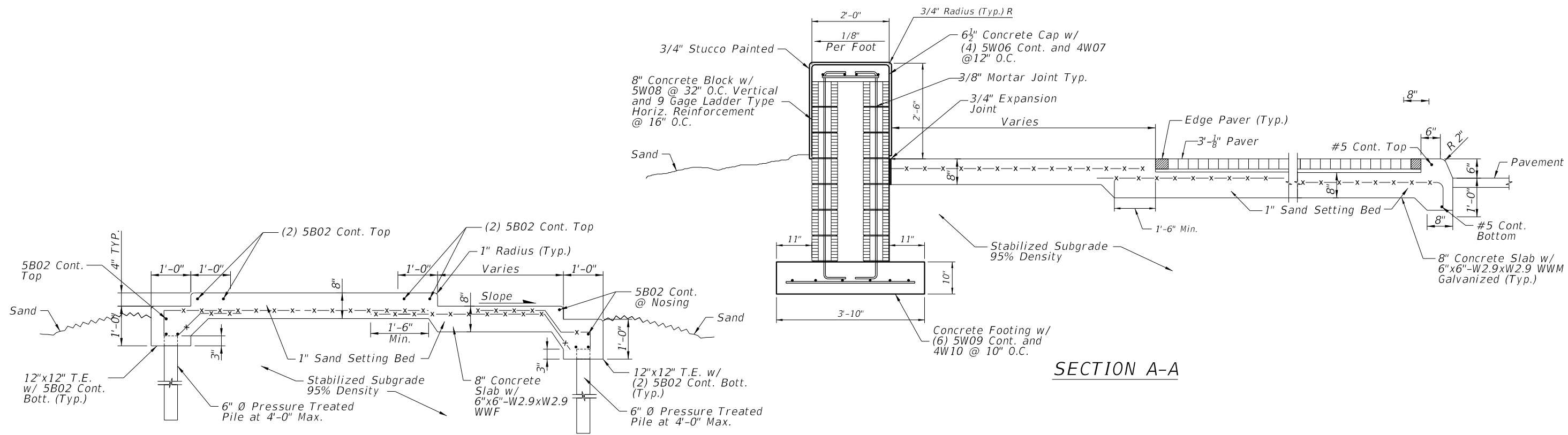
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	BROWARD	433688-4-52-01

COLUMN DETAILS

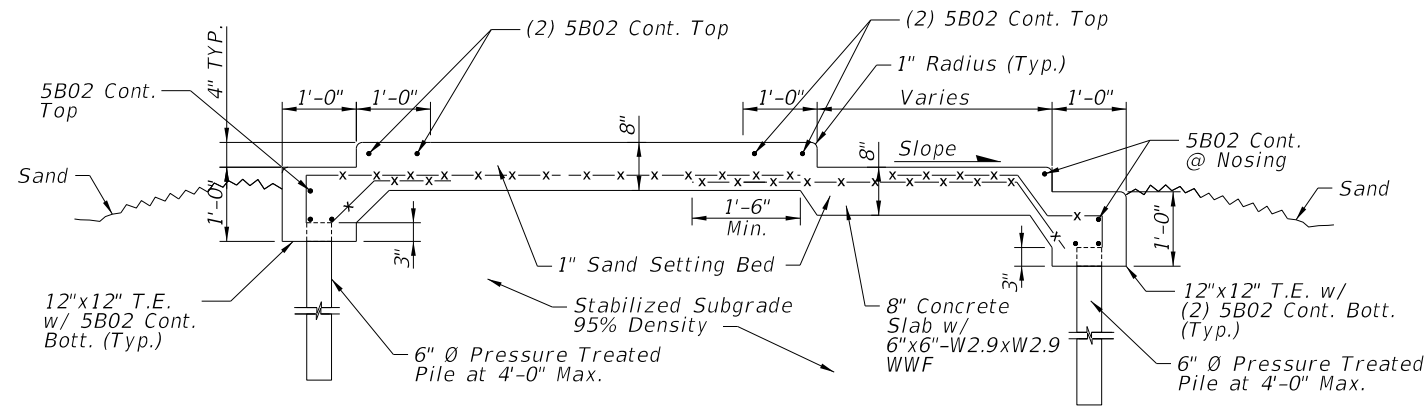
CAM #14-0011
 EXHIBIT BW-9
 Page 53 of 66

SHEET NO.

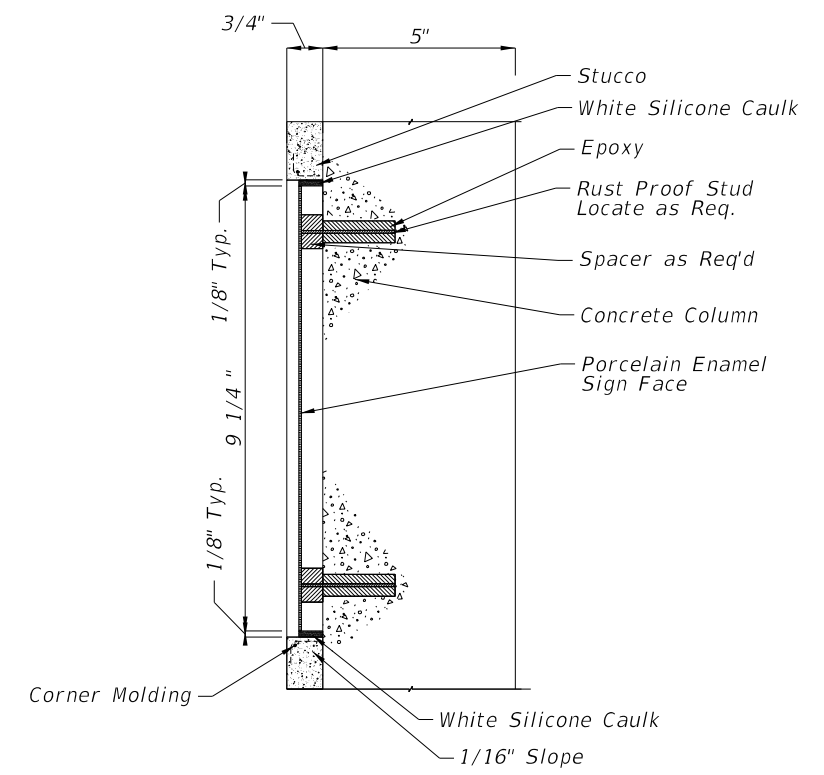
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 51-17.062, F.A.C.



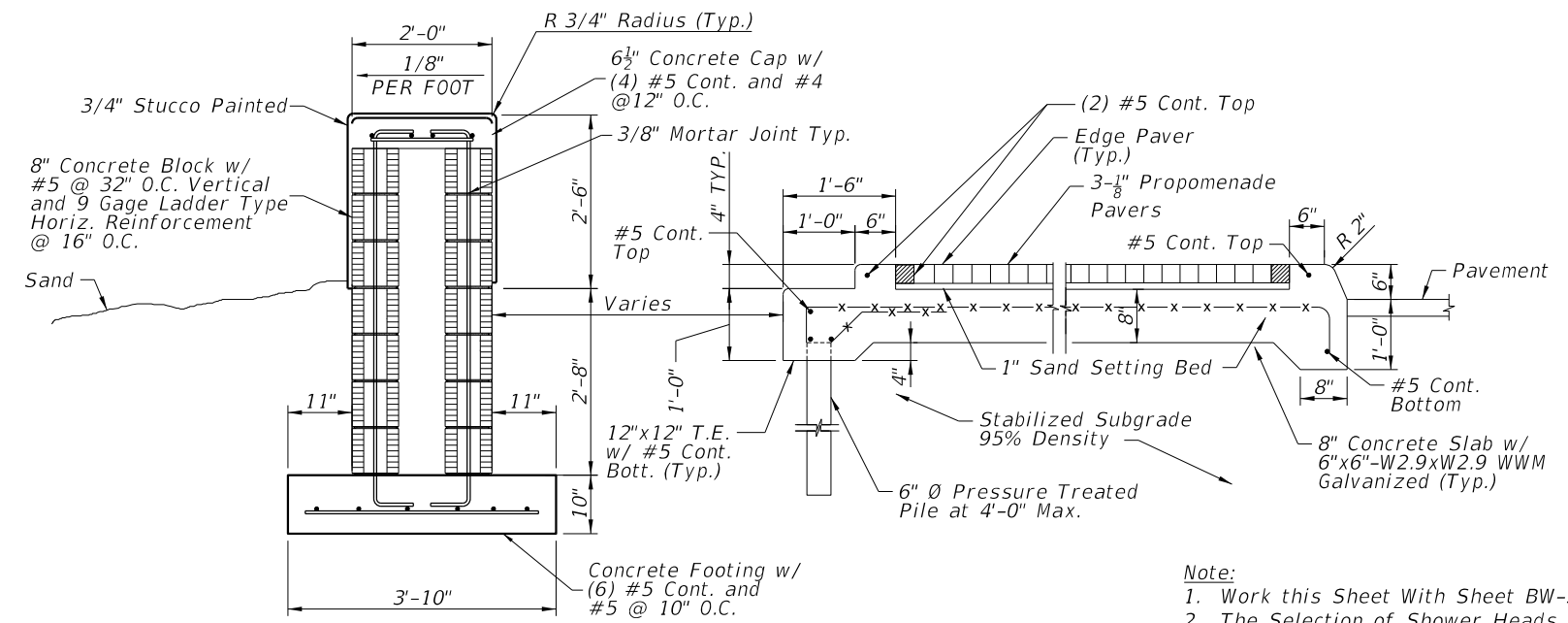
SECTION A-A



SECTION B-B



COLUMN SIGN MOUNTING DETAIL

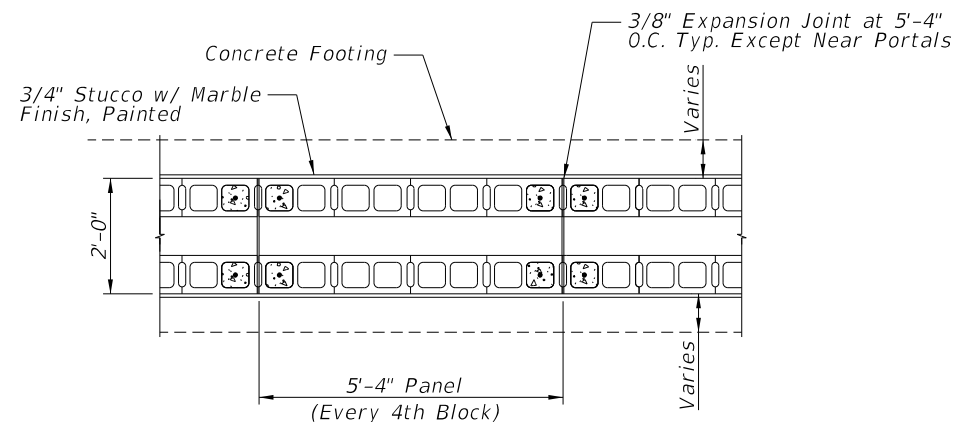


SECTION C-C

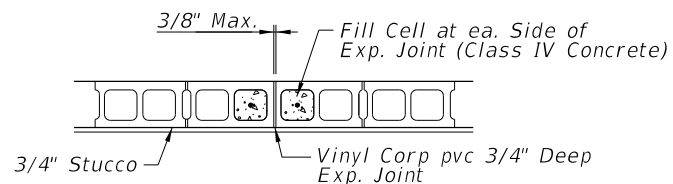
- Note:
1. Work this Sheet With Sheet BW-5
 2. The Selection of Shower Heads and faucets Shall be Coordinated and Approved by The City Park and Recreation Department.

REVISIONS				EAC CONSULTING, INC. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STRUCTURAL DETAILS (1 OF 2)	SHEET NO. CAM #14-0011 EXHIBIT BW-10 Page 54 of 66
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CA#7011	A1A	BROWARD	433688-4-52-01		

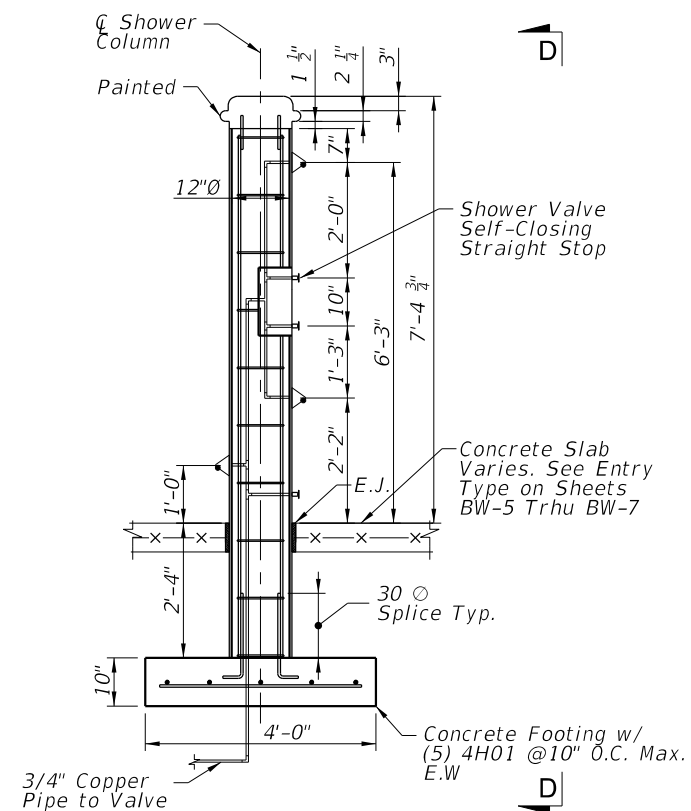
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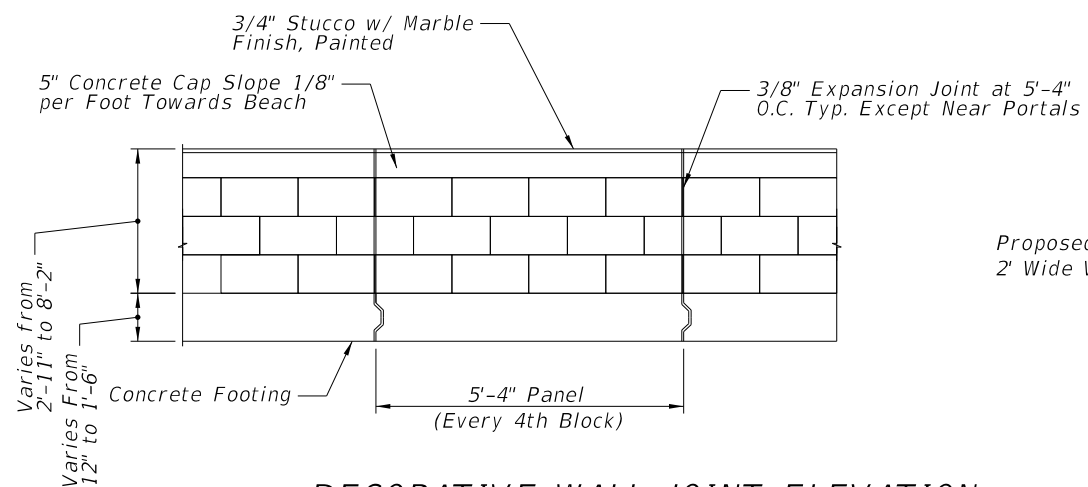
DECORATIVE WALL JOINT PLAN



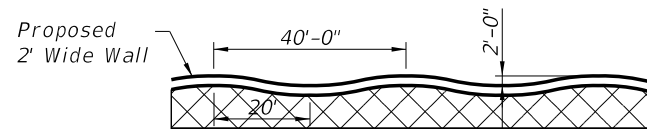
BLOCK JOINT



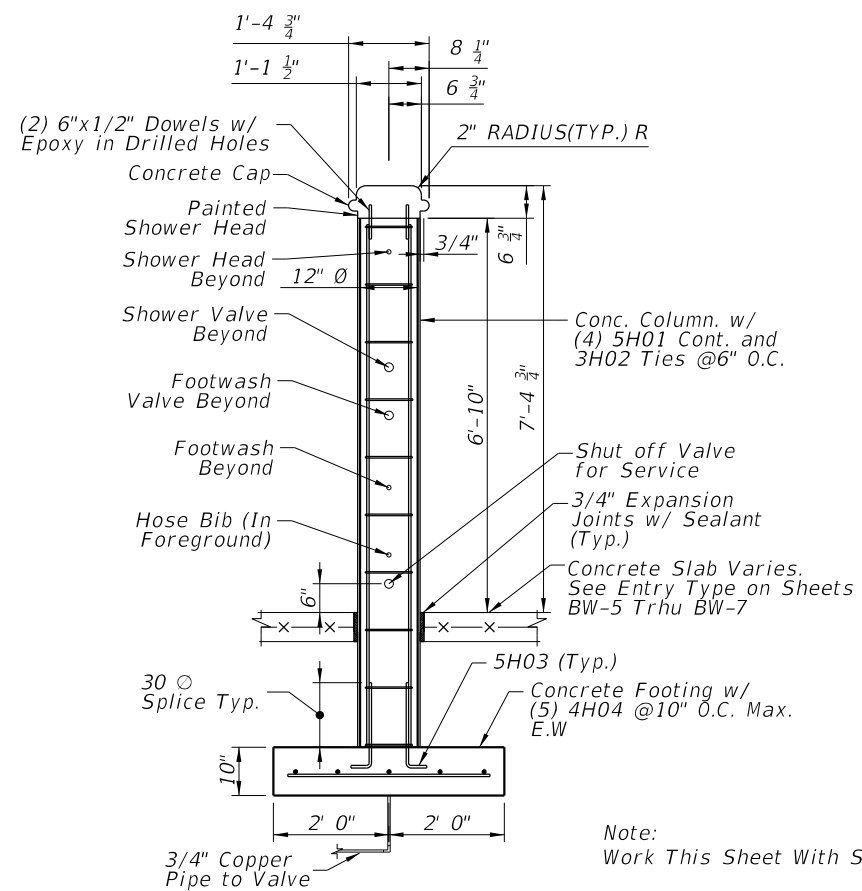
ELEVATION: SHOWER COLUMN



DECORATIVE WALL JOINT ELEVATION



WAVE WALL PLAN DETAIL



SECTION D-D

Note: Work This Sheet With Sheets BW-3 Thru BW-5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

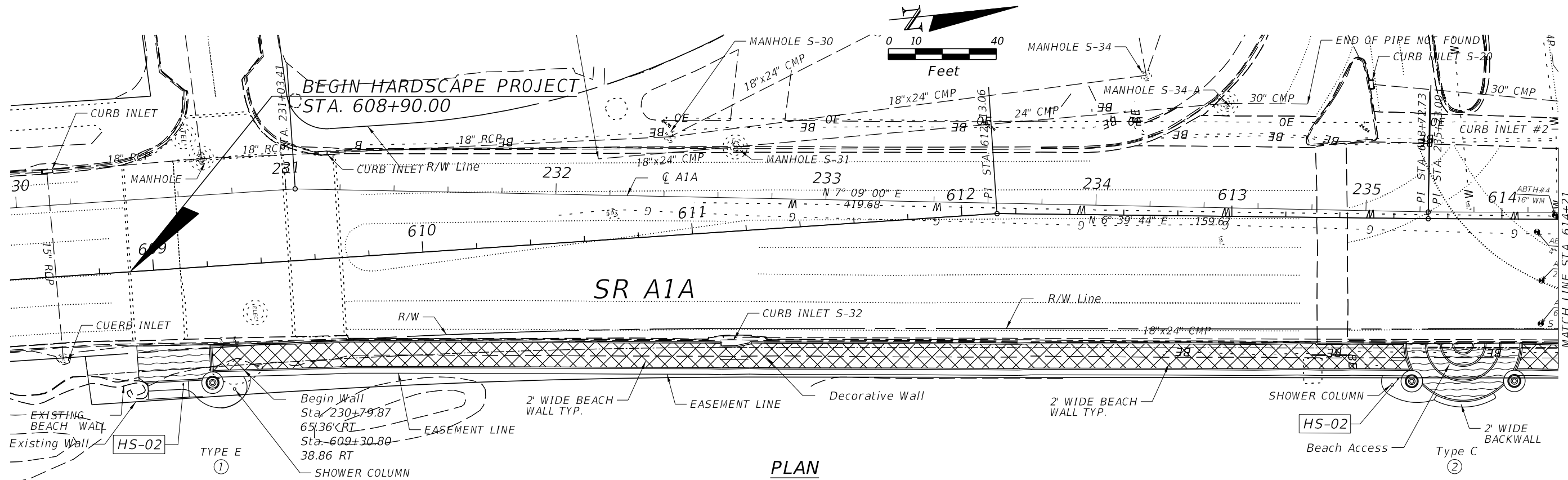
EAC CONSULTING, INC.
 815 N.W. 57TH AVENUE, SUITE 402
 MIAMI, FL 33126
 305-265-2557
 K.T. LIN, P.E.
 P.E. LIC. 41081
 WWW.EACCONSULT.COM

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	BROWARD	433688-4-52-01

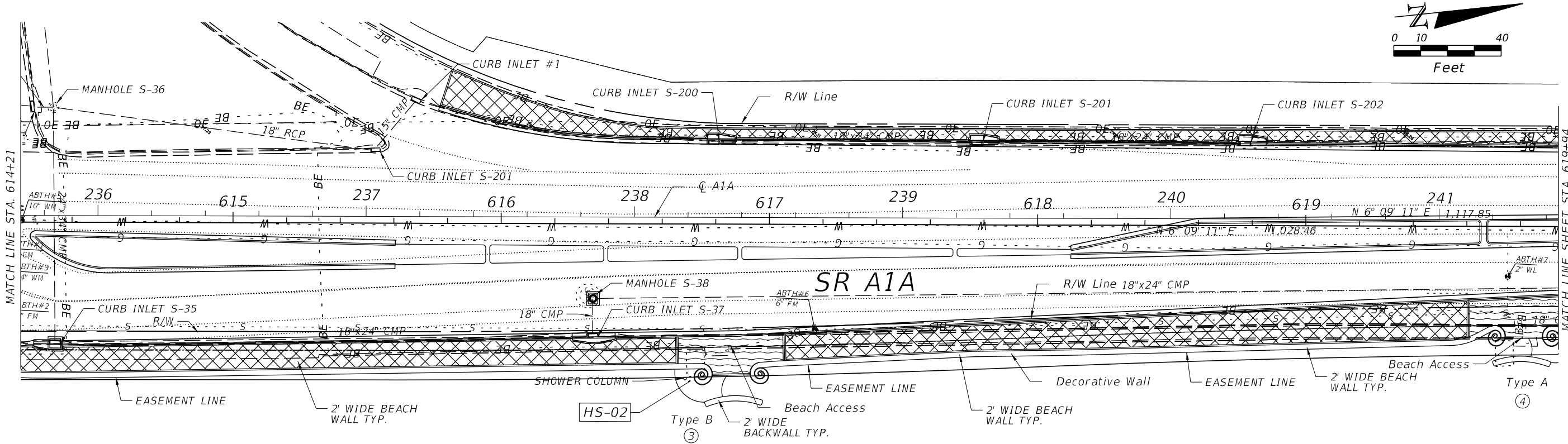
STRUCTURAL DETAILS
 (2 OF 2)
 CAM #14-0011
 EXHIBIT BW-11
 Page 55 of 66

SHEET NO.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 51-17.062, F.A.C.



PLAN



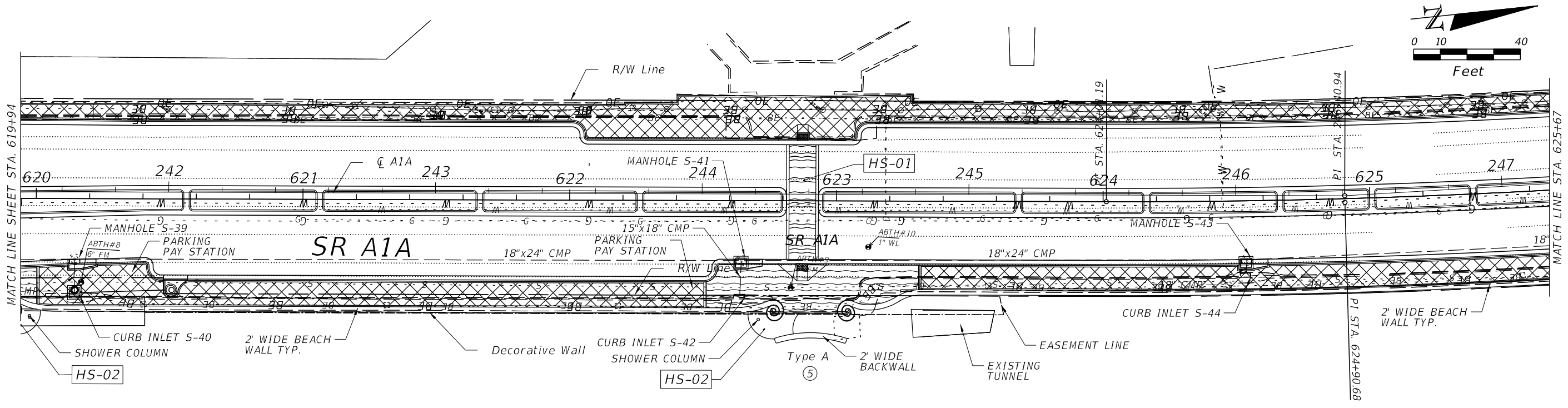
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LEGEND: ① Indicates Entrance ID Number

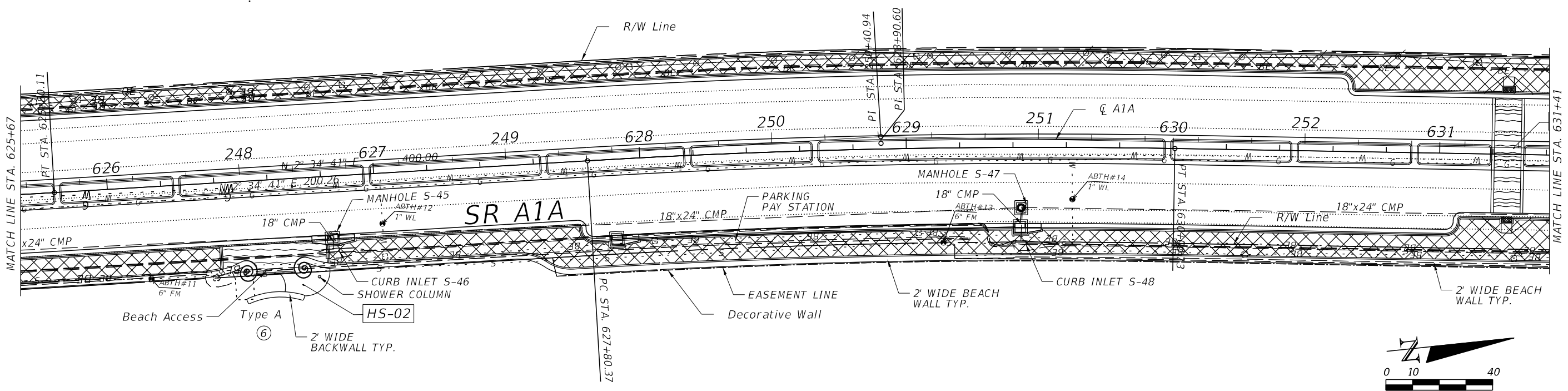
Note: See Sheets BW-5 Thru BW-7 For Entry Type Details

REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	WALL PLANS (1 OF 5)

CAM #14-0011
EXHIBIT BW-12
Page 56 of 66



PLAN

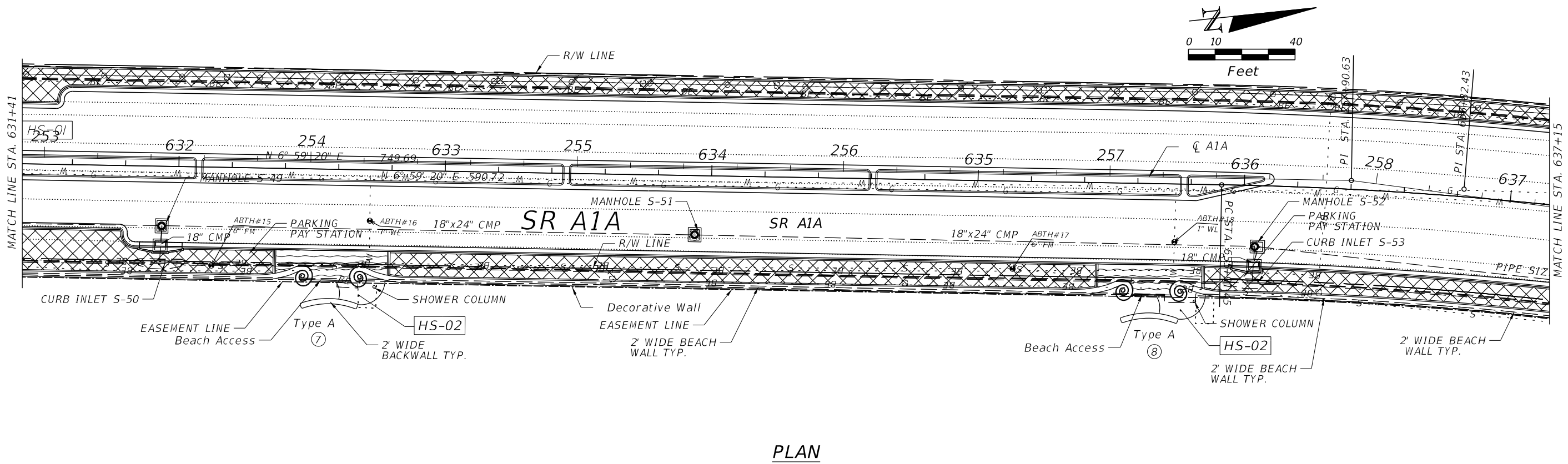


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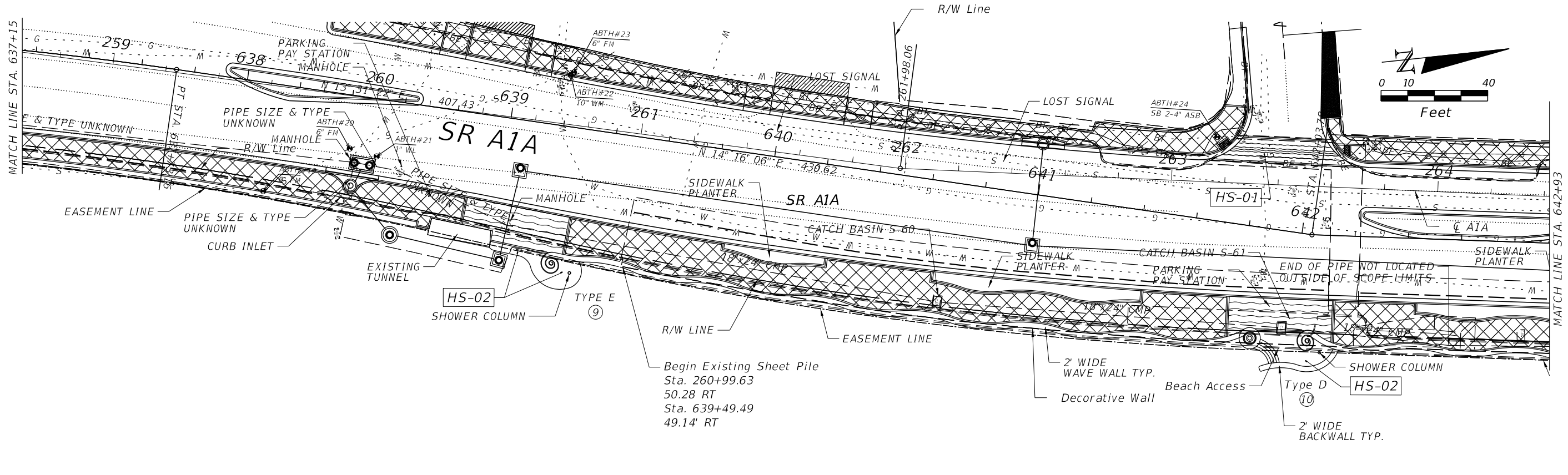
LEGEND: ① Indicates Entrance ID Number

Note: See Sheets BW-5 Thru BW-7 For Entry Type Details

REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	WALL PLANS (2 OF 5) CAM #14-0011 EXHIBIT 1 BW-13 Page 57 of 66



PLAN



PLAN

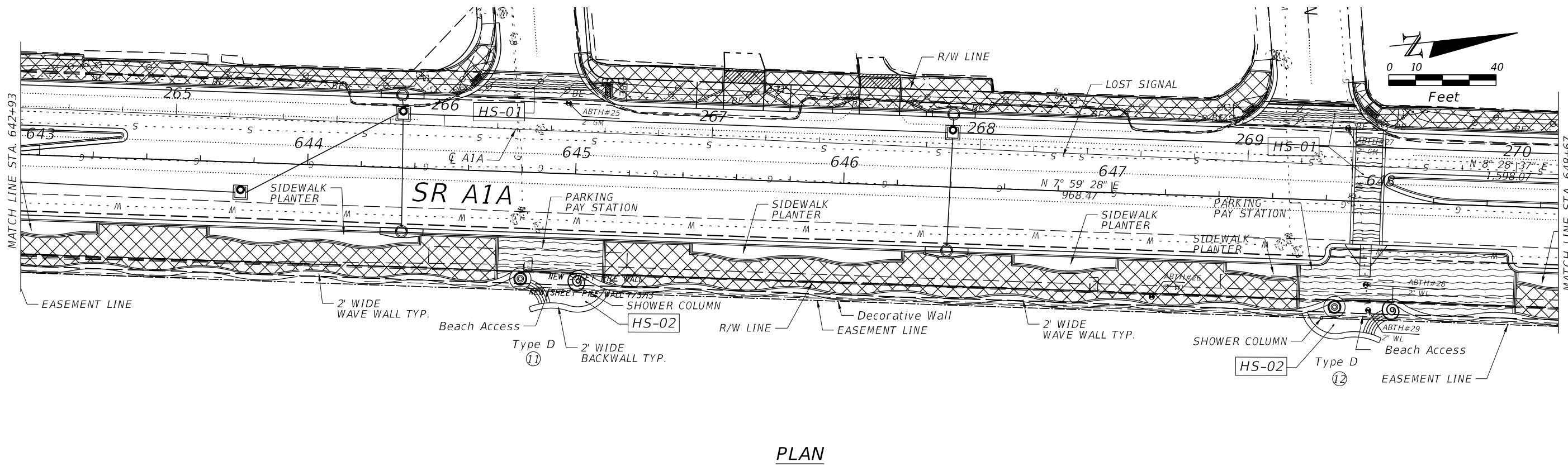
LEGEND: ① Indicates Entrance ID Number

Note: See Sheets BW-5 Thru BW-7 For Entry Type Details

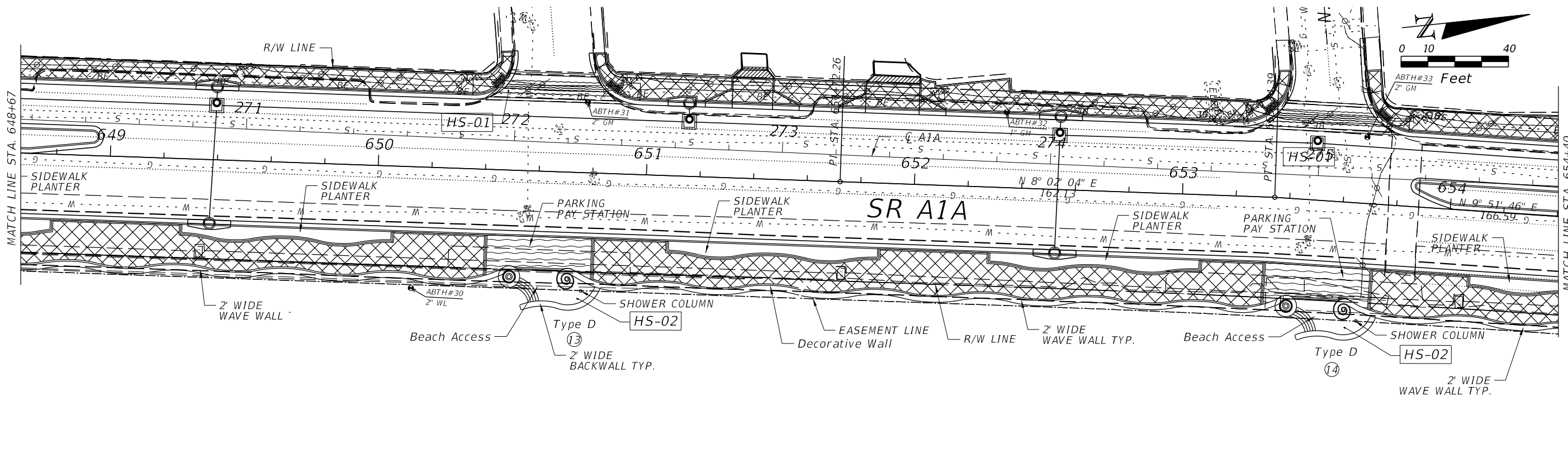
REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH. AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	

WALL PLANS (3 OF 5)

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PLAN

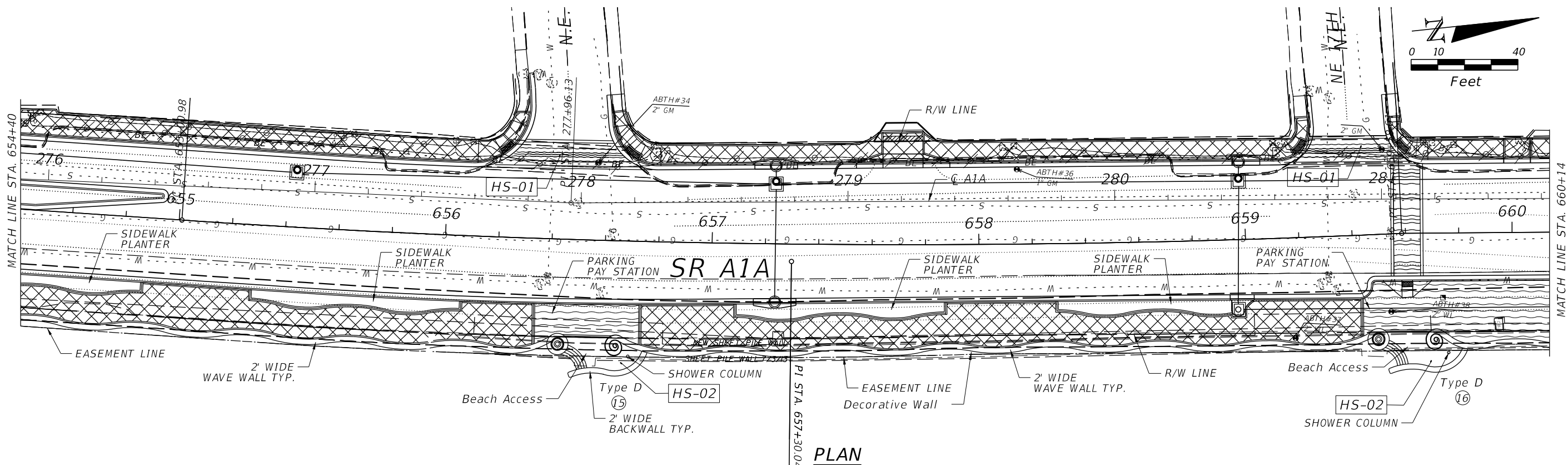


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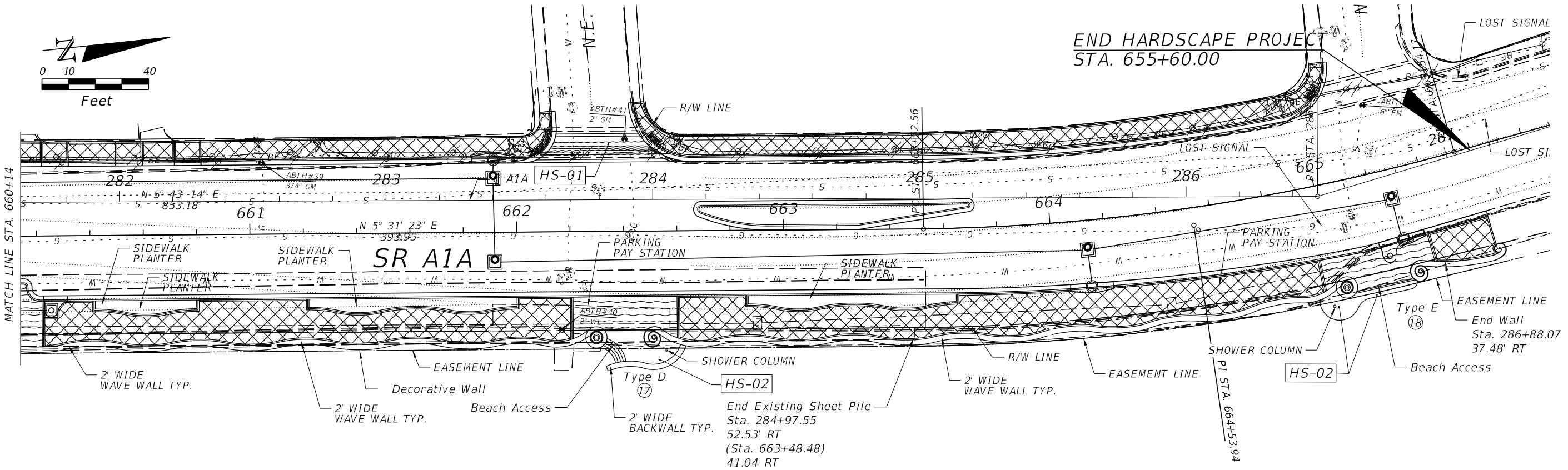
LEGEND: ① Indicates Entrance ID Number

Note: See Sheets BW-5 Thru BW-7 For Entry Type Details

REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	WALL PLANS (4 OF 5) CAM #14-0011 EXHIBIT BW-15 Page 59 of 66



PLAN



PLAN

LEGEND: (1) Indicates Entrance ID Number

Note: See Sheets BW-5 Thru BW-7 For Entry Type Details

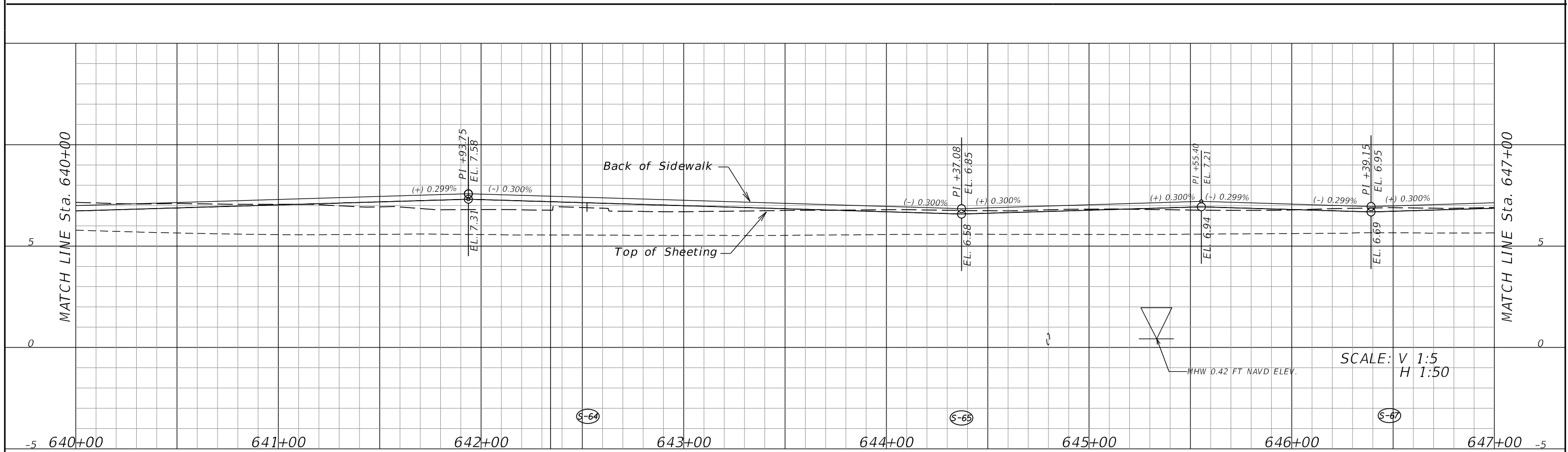
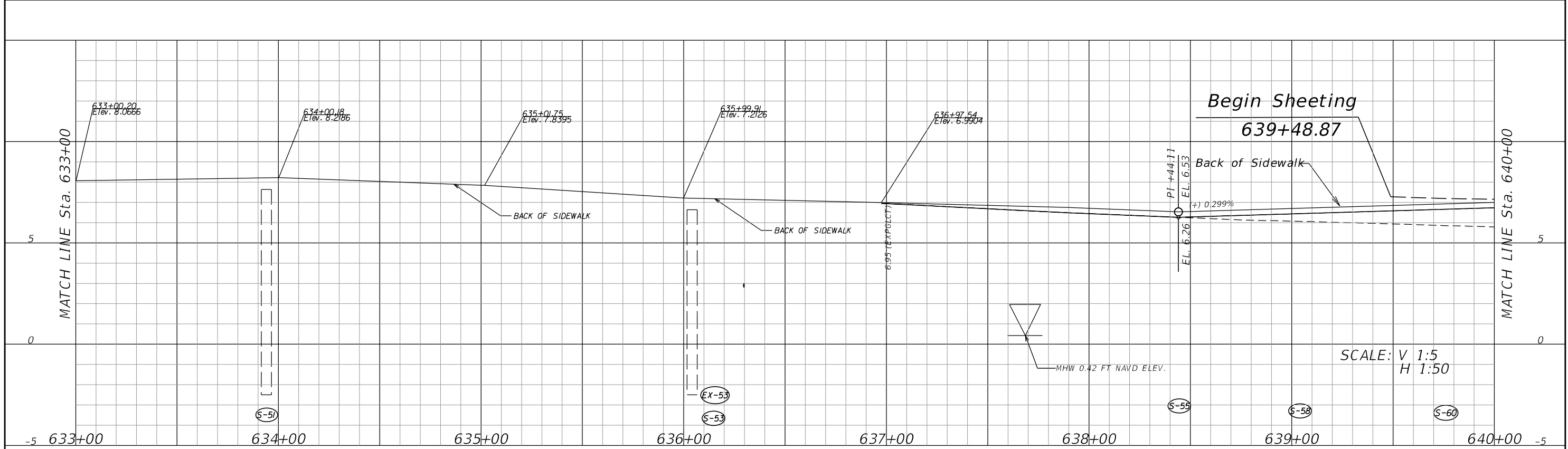
REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	WALL PLANS (5 OF 5) CAM #14-0011 EXHIBIT BW-16 Page 60 of 66

Station	offset	Back of Sidewalk Elev.	Top of Wall Elev.	Top of Footing Elev.
609+30.80	36.86	5.80	8.30	3.13
609+50.00	37.24	5.80	8.30	3.13
610+00.00	39.86	6.14	8.64	3.47
610+50.00	43.41	6.26	8.76	3.59
611+00.00	46.94	6.38	8.88	3.71
611+50.00	50.43	6.52	9.02	3.85
612+00.00	53.85	6.67	9.17	4.00
612+50.00	54.22	6.49	8.99	3.82
613+00.00	53.81	6.30	8.80	3.63
613+50.00	53.24	6.21	8.71	3.54
614+10.00	53.62	6.12	8.62	3.45
614+50.00	52.95	6.11	8.61	3.44
615+00.00	52.06	6.10	8.60	3.43
615+50.00	51.18	6.06	8.56	3.39
616+00.00	50.30	6.01	8.51	3.34
616+50.00	49.41	6.02	8.52	3.35
617+00.00	48.52	6.03	8.53	3.36
617+50.00	47.64	6.16	8.66	3.49
618+00.00	46.76	6.29	8.79	3.62
618+50.00	45.47	6.48	8.98	3.81
619+00.00	44.04	6.66	9.16	3.99
619+50.00	42.61	6.72	9.22	4.05
620+00.00	39.44	6.79	9.29	4.12
620+50.00	40.17	6.87	9.37	4.21
621+00.00	40.17	6.96	9.46	4.29
621+50.00	40.18	6.99	9.49	4.32
622+00.00	40.18	7.02	9.52	4.35
622+50.00	40.18	7.12	9.62	4.46
623+10.00	38.71	7.23	9.73	4.56
623+50.00	33.18	7.38	9.88	4.71
624+00.00	33.18	7.53	10.03	4.87
624+50.00	33.18	7.57	10.07	4.90
625+00.00	33.18	7.61	10.11	4.94
625+50.00	33.18	7.62	10.12	4.96
626+00.00	33.19	7.64	10.14	4.97
626+40.00	32.69	7.70	10.20	5.03
627+00.00	33.19	7.76	10.26	5.09
627+50.00	33.19	7.84	10.34	5.17
628+00.00	40.18	7.92	10.42	5.25
628+50.00	40.21	7.97	10.47	5.30
629+00.00	40.22	8.02	10.52	5.35
629+50.00	40.20	7.94	10.44	5.27
630+00.00	42.16	7.85	10.35	5.18
630+50.00	40.16	7.99	10.49	5.32
631+00.00	40.17	8.13	10.63	5.46
631+50.00	40.17	8.01	10.51	5.34
632+00.00	40.18	7.89	10.39	5.22
632+40.00	38.61	7.98	10.48	5.31
633+00.00	40.16	8.07	10.57	5.40
633+50.00	40.16	8.14	10.64	5.48
634+00.00	40.17	8.22	10.72	5.55
634+50.00	40.17	8.03	10.53	5.36
635+00.00	40.18	7.84	10.34	5.17
635+40.00	40.03	7.53	10.03	4.86
636+00.00	40.17	7.21	9.71	4.55
636+50.00	40.20	7.10	9.60	4.43
637+00.00	40.22	6.99	9.49	4.32
637+50.00	40.24	6.83	9.33	4.16
638+00.00	40.50	6.67	9.17	4.00
638+50.00	42.37	6.55	9.05	3.88
639+30.00	47.88	6.79	9.29	4.12
639+50.00	47.63	6.85	9.35	4.12
640+00.00	51.25	7.00	9.50	4.12

Station	offset	Back of Sidewalk Elev.	Top of Wall Elev.	Top of Footing Elev.
640+50.00	51.37	7.15	9.65	6.80
641+00.00	48.23	7.30	9.80	6.95
641+50.00	45.51	7.45	9.95	7.10
642+20.00	41.61	7.50	10.00	7.16
642+50.00	40.02	7.41	9.91	7.07
643+00.00	41.60	7.26	9.76	6.92
643+50.00	41.16	7.11	9.61	6.77
644+00.00	39.72	6.96	9.46	6.62
644+50.00	39.95	6.89	9.39	6.55
645+20.00	47.71	7.10	9.60	6.76
645+50.00	39.97	7.19	9.69	6.85
646+00.00	41.58	7.07	9.57	6.73
646+50.00	41.24	6.98	9.48	6.64
647+00.00	39.91	7.14	9.64	6.79
647+50.00	39.93	7.29	9.79	6.94
648+20.00	41.24	7.50	10.00	7.16
648+50.00	39.68	7.42	9.92	7.08
649+00.00	41.31	7.27	9.77	6.93
649+50.00	41.56	7.20	9.70	6.85
650+00.00	40.00	7.40	9.90	7.06
650+40.00	39.88	7.56	10.06	7.22
651+00.00	40.36	7.63	10.13	7.29
651+50.00	39.60	7.47	9.97	7.13
652+00.00	41.08	7.31	9.81	6.97
652+50.00	41.61	7.15	9.65	6.81
653+00.00	40.19	7.32	9.82	6.98
653+30.00	40.45	7.44	9.94	7.10
654+00.00	40.13	7.72	10.22	7.38
654+50.00	39.41	7.92	10.42	7.58
655+00.00	40.81	7.93	10.43	7.58
655+50.00	41.66	7.78	10.28	7.43
656+00.00	39.83	7.63	10.13	7.29
656+30.00	40.90	7.54	10.04	7.20
657+00.00	39.48	7.33	9.83	6.99
657+50.00	37.54	7.34	9.84	6.99
658+00.00	38.39	7.49	9.99	7.14
658+50.00	38.97	7.64	10.14	7.29
659+00.00	38.42	7.79	10.29	7.44
659+40.00	38.77	7.91	10.41	7.56
660+00.00	39.85	8.09	10.59	7.74
660+50.00	40.44	8.24	10.74	7.89
661+00.00	41.64	8.21	10.71	7.86
661+50.00	40.83	8.01	10.51	7.66
662+00.00	39.83	7.81	10.31	7.46
662+60.00	40.14	7.57	10.07	7.22
663+00.00	41.38	7.41	9.91	7.06
663+50.00	41.52	7.21	9.71	6.86
664+00.00	39.39	7.01	9.51	6.66
664+50.00	40.41	7.06	9.56	6.71
664+90.00	40.46	7.18	9.68	6.83
665+40.00	38.61	7.21	9.71	6.86

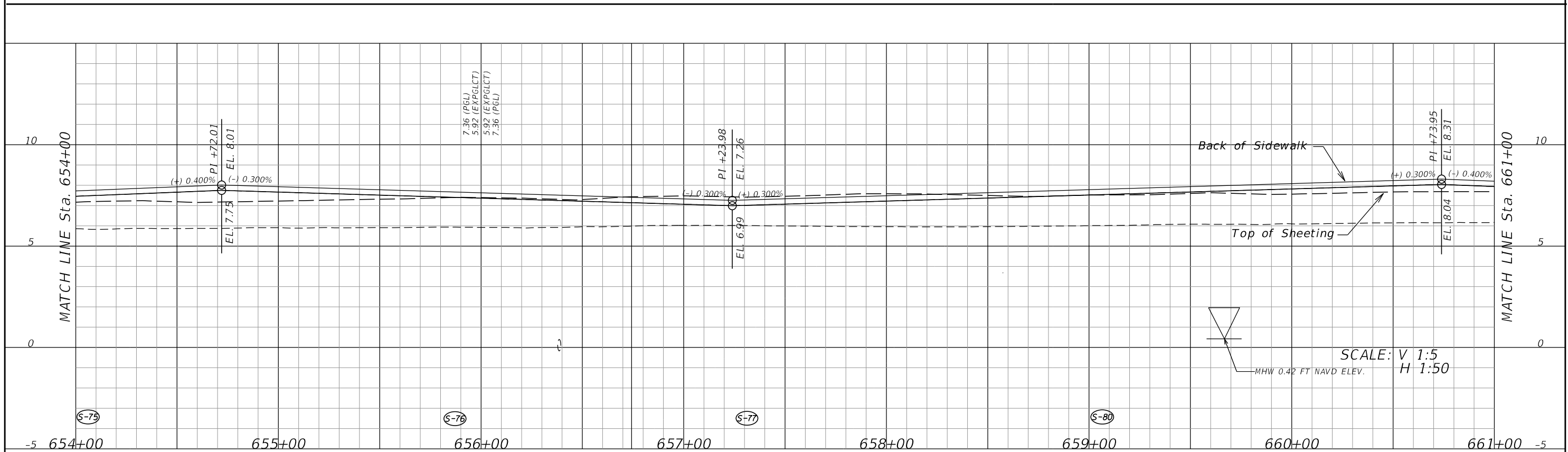
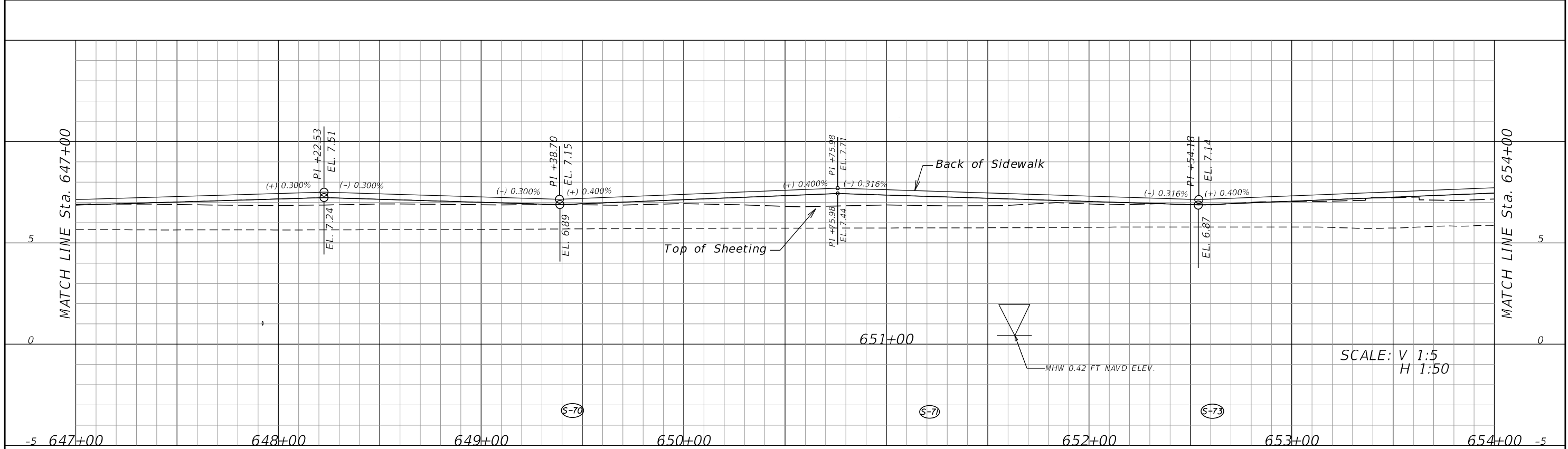
Work this Sheet With Sheets BW-12 to BW-16

REVISIONS				EAC Consulting, Inc. 815 N.W. 57TH. AVENUE, SUITE 402 MIAMI, FL 33126 305-265-2557 K.T. LIN, P.E. P.E. LIC. 41081 WWW.EACCONSULT.COM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CA#7011	A1A	BROWARD	433688-4-52-01	WALL ELEVATION TABLE CAM #14-0011 EXHIBIT 1 BW-17 Page 61 of 66



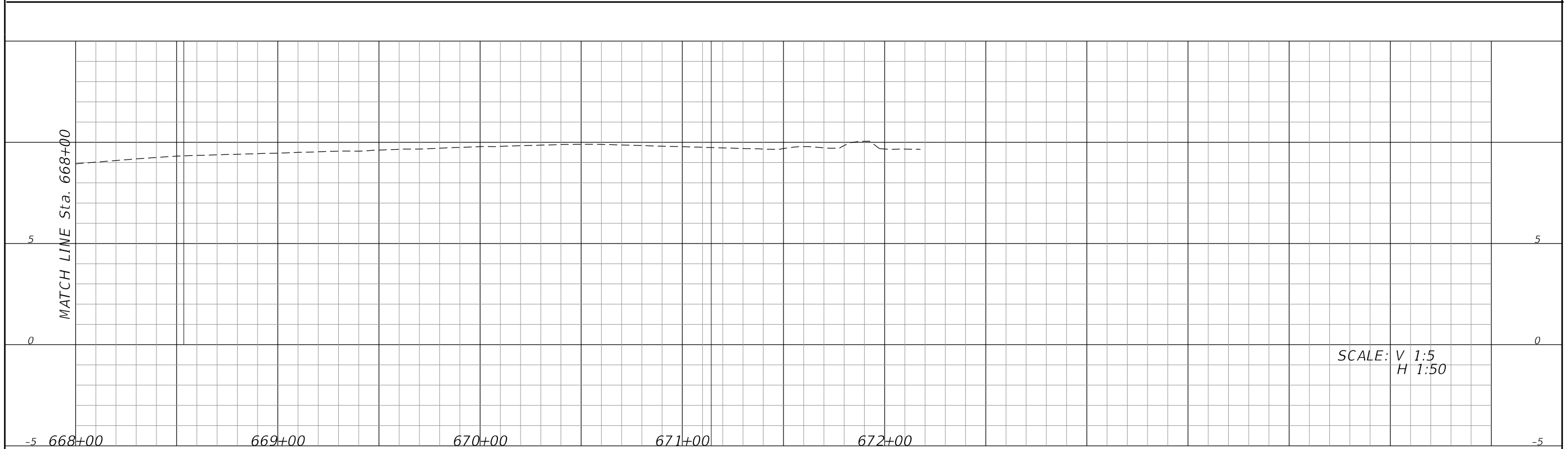
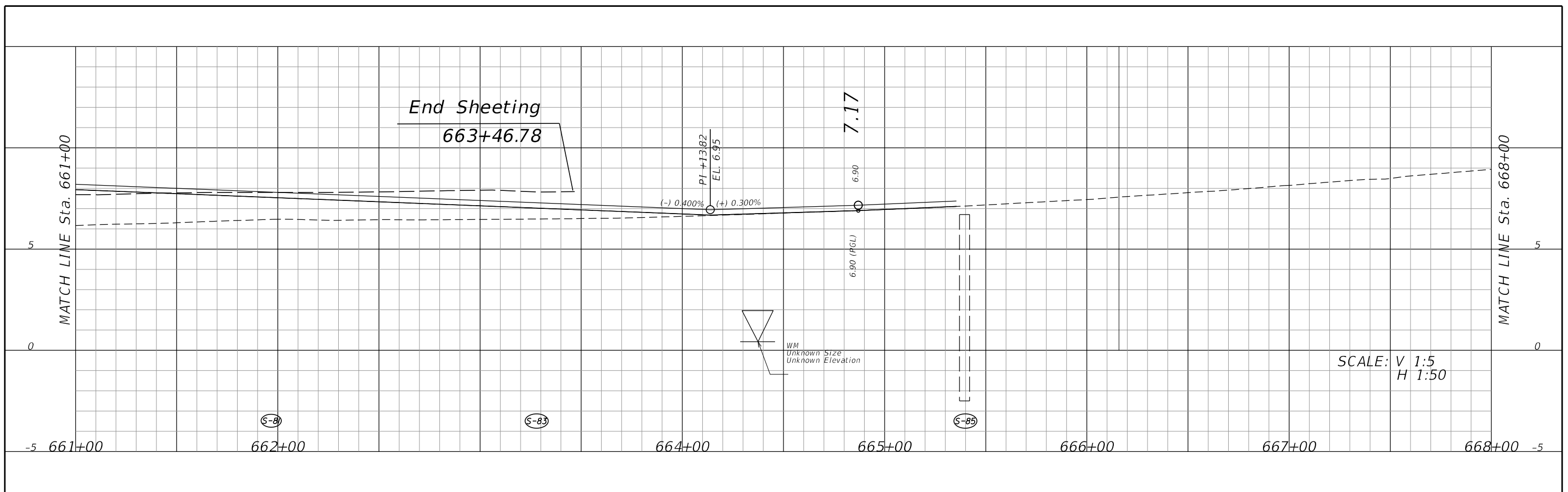
NOTE: AS-BUILT ELEVATIONS PROVIDED BY FLORIDA DEPARTMENT OF TRANSPORTATION

REVISIONS				FDOT DISTRICT IV SCOTT PETERSON, P.E. 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AS-BUILT SHEET PILE PROFILE (1 OF 3) CAM #14-0011 EXHIBIT BW-18 Page 62 of 66	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					A1A	BROWARD	433688-4-52-01		



NOTE: AS-BUILT ELEVATIONS PROVIDED BY FLORIDA DEPARTMENT OF TRANSPORTATION

REVISIONS				FDOT DISTRICT IV SCOTT PETERSON, P.E. 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AS-BUILT SHEET PILE PROFILE (2 OF 3) CAM #14-0011 EXHIBIT BW-19 Page 63 of 66	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					A1A	BROWARD	433688-4-52-01		



NOTE: AS-BUILT ELEVATIONS PROVIDED BY FLORIDA DEPARTMENT OF TRANSPORTATION

REVISIONS				FDOT DISTRICT IV SCOTT PETERSON, P.E. 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AS-BUILT SHEET PILE PROFILE (3 OF 3) CAM #14-0011 EXHIBIT 1 BW-20 Page 64 of 66	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					A1A	BROWARD	433688-4-52-01		

REINFORCING BAR LIST																							
MARK	LENGTH	No.	TYP	STY	B		C		D		E		F		H		J		K	N	ø		
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	No	ANG
TYPICAL WALL SECTION WITH EXISTING SHEET PILE NO. REQUIRED=1																							
5	W01	5	0	1596	1			5	0														
4	W02	1	8	2394	1			1	8														
6	W03	5	4	3990	11			3	4		1	0		1	0								
5	W04	4	8	6384	1			4	10														
5	W05	4	6	6384	1			4	6														
9-Gauge Galvanized Steel Wire - 665 lbs																							
TYPICAL WALL SECTION WITHOUT EXISTING SHEET PILE NO. REQUIRED=1																							
5	W06	5	0	2164	1			5	0														
4	W07	1	8	3246	1			1	8														
5	W08	7	2	3246	11			5	6		0	10		0	10								
5	W09	4	8	3246	1			4	10														
4	W10	3	4	3787	1			3	4														
9-Gauge Galvanized Steel Wire - 2701 lbs																							
ENTRANCE TYPE D NO. REQUIRED=8																							
Concrete Back Wall --- Numbers of Bar reflect 8 Panels																							
5	W11	5	0	32	1			5	0														
4	W12	1	8	48	1			1	8														
5	W13	10	8	64	11			9	0		0	10		0	10								
5	W14	4	8	72	1			4	10														
5	W15	5	0	64	1			5	0														
Step & Slab																							
5	B21	6	5	2	1			6	5														
4	B22	6	8	7	13			5	8		0	4		0	8							22	68
3	B23	1	6	7	11			0	6		0	6		0	6								
3	B24	10	0	15	1			10	0														
Shower Column																							
5	H01	8	10	4	1			8	10														
3	H02	2	11	19	24			0	9		0	4											
5	H03	2	6	4	10			1	8		0	10											
4	H04	3	6	10	1			3	6														
Concrete Column Wrap																							
5	C01	1	8	28	1			1	8														
4	C02	28	0	3	24			2	2		3	9											
5	C03	2	6	125	10			1	8		0	10											
4	C04	8	10	22	1			8	10														
Concrete Shell Wrap																							
4	S01	6	6	34	1			6	6														
4	S02	27	4	11	24			2	2		4	0											
4	S03	2	6	34	10			1	8		0	10											
4	S04	8	11	22	1			8	11														
4	S05	11	3	6	4	4	4	3	9		1	6											
4	S06	3	11	46	10			2	2		1	9											
4	S07	1	9	46	1			1	9														
6x6-W2.9xW2.9 WWM -- 440 lbs																							
6x6-W6xW6 WWM -- 341 lbs																							
9-Gauge Galvanized Steel Wire - 63 lbs																							

ENTRANCE TYPE A AND B NO. REQUIRED = 6																							
Concrete Back Wall --- Numbers of Bar reflect 5 Panels																							
5	W06	5	0	20	1			5	0														
4	W07	1	8	30	1			1	8														
5	W08	7	5	30	11			5	9		0	10		0	10								
5	W09	4	8	30	1			4	10														
4	W10	3	4	35	1			3	4														
Step & Slab																							
5	B01	81	2	2	1			81	2														
5	B02	10	0	11	1			10	0														
5	B03	13	5	5	1			13	5														
Shower Column																							
5	H01	8	10	4	1			8	10														
3	H02	2	11	10	24			0	9		0	4											
5	H03	2	6	4	10			1	8		0	10											
4	H04	3	6	10	1			3	6														
Concrete Shell Wrap --- Numbers of Bar reflect 2 Shell Wraps																							
4	S01	6	6	68	1			6	6														
4	S02	27	4	22	24			2	2		4	0											
4	S03	2	6	68	10			1	8		0	10											
4	S04	8	11	44	1			8	11														
4	S05	11	3	12	4	4	4	3	9		1	6											
4	S06	3	11	92	10			2	2		1	9											
4	S07	1	9	92	1			1	9														
6x6-W2.9xW2.9 WWM -- 462 lbs																							
6x6-W6xW6 WWM -- 116 lbs																							
9-Gauge Galvanized Steel Wire - 20 lbs																							
ENTRANCE TYPE C NO. REQUIRED = 1																							
Concrete Back Wall --- Numbers of Bar reflect 4 Panels																							
5	W06	5	0	16	1			5	0														
4	W07	1	8	24	1			1	8														
5	W08	7	5	24	11			5	9		0	10		0	10								
5	W09	4	8	24	1			4	10														
4	W10	3	4	28	1			3	4														
Step & Slab																							
5	B11	42	8	22	1			42	8														
5	B12	21	4	44	1			21	4														
Shower Column																							
5	H01	8	10	4	1			8	10														
3	H02	2	11	10	24			0	9		0	4											
5	H03	2	6	4	10			1	8		0	10											
4	H04	3	6	10	1			3	6														
Concrete Column Wrap --- Numbers of Bar reflect 2 Column Wraps																							
5	C01	1	8	56	1			1	8														
4	W01	28	0	6	24			2	2		3	9											
5	W02	2	6	250	10			1	8		0	10											
4	W02	8	10	44	1			8	10														
6x6-W2.9xW2.9 WWM -- 361 lbs																							
6x6-W6xW6 WWM -- 566 lbs																							
9-Gauge Galvanized Steel Wire - 20 lbs																							

TYPE E ENTRY (EMERGENCY VEHICLE ENTRANCE 18) NO. REQUIRED = 1														
Step & Slab														
5 B31	41	1	21	1			41	1						Cut to fit Slab
5 B32	20	6	42	1			20	6						Cut to fit Slab
5 B33	26	0	8	1			26	0						Cut to fit Slab
5 B34	7	6	21	15			6	0	1	0	0	6		85 85
Shower Column														
5 H01	8	10	4	1			8	10						
3 H02	2	11	10	24			0	9	0	4				
5 H03	2	6	4	10			1	8	0	10				
4 H04	3	6	10	1			3	6						
Concrete Column Wrap														
5 C01	1	8	28	1			1	8						
4 C02	28	0	3	24			2	2	3	9				Bend to the shape of curve open
5 C03	2	6	125	10			1	8	0	10				
4 C04	8	10	22	1			8	10						Cut to fit Foundation
Concrete Shell Wrap														
4 S01	6	6	34	1			6	6						Cut to fit height of walls
4 S02	27	4	11	24			2	2	4	0				Bend to the shape of curve open
4 S03	2	6	34	10			1	8	0	10				(Footing to Wall connection)
4 S04	8	11	22	1			8	11						Cut to fit Foundation
4 S05	11	3	6	4	4	4	3	9	1	6				
4 S06	3	11	46	10			2	2	1	9				Cut "C" to fit top Cap width
4 S07	1	9	46	1			1	9						Cut to fit top Cap width
6x6-W6xW6 WWM -- 341 lbs														
6x6-W2.9xW2.9 WWM -- 101 lbs														

TYPE E ENTRY (VEHICLE ENTRANCE 9) NO. REQUIRED = 1														
Step & Slab														
5 B31	38	7	27	1			38	7						Cut to fit Slab
5 B32	20	6	40	1			20	6						Cut to fit Slab
5 B33	21	8	8	1			21	8						Cut to fit Slab
5 B34	8	0	22	15			6	6	1	0	0	6		85 85
Shower Column														
5 H01	8	10	4	1			8	10						
3 H02	2	11	10	24			0	9	0	4				
5 H03	2	6	4	10			1	8	0	10				
4 H04	3	6	10	1			3	6						
Concrete Shell Wrap														
4 S01	6	6	34	1			6	6						Cut to fit height of walls
4 S02	27	4	11	24			2	2	4	0				Bend to the shape of curve open
4 S03	2	6	34	10			1	8	0	10				(Footing to Wall connection)
4 S04	8	11	22	1			8	11						Cut to fit Foundation
4 S05	11	3	6	4	4	4	3	9	1	6				
4 S06	3	11	46	10			2	2	1	9				Cut "C" to fit top Cap width
4 S07	1	9	46	1			1	9						Cut to fit top Cap width
6x6-W6xW6 WWM -- 58 lbs														
6x6-W2.9xW2.9 WWM -- 101 lbs														

TYPE E ENTRY (VEHICLE ENTRANCE 1) NO. REQUIRED = 1														
Step & Slab														
5 B31	26	3	21	1			26	3						Cut to fit Slab
5 B32	19	4	28	1			19	4						Cut to fit Slab
5 B33	21	8	8	1			21	8						Cut to fit Slab
5 B34	8	0	23	15			6	6	1	0	0	6		85 85
Shower Column														
5 H01	8	10	4	1			8	10						
3 H02	2	11	10	24			0	9	0	4				
5 H03	2	6	4	10			1	8	0	10				
4 H04	3	6	10	1			3	6						
Concrete Column Wrap														
5 C01	1	8	28	1			1	8						
4 C02	28	0	3	24			2	2	3	9				Bend to the shape of curve open
5 C03	2	6	125	10			1	8	0	10				
4 C04	8	10	22	1			8	10						Cut to fit Foundation
6x6-W6xW6 WWM -- 283 lbs														
6x6-W2.9xW2.9 WWM -- 101 lbs														

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	BROWARD	433688-4-52-01

REINFORCING BAR LIST
(2 OF 2)
CAM #14-0011
EXHIBIT 1 BW-22
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SHEET NO.