

# Traffic Signal Installation at Palm Avenue and SW 7 Street

# Invitation for Bids # PSEN-24-01

	General Information	
Project Cost Estimate	\$765,052	See Section 1.4
Project Timeline	150 calendar days from NTP.	See Section 1.4
Evaluation of Proposals	Staff	See Section 1.7
Non-Mandatory Pre-Bid	10:00 a.m. on March 12, 2024, at the Public Services Building	See Section 1.8
Meeting	Large Conference Room, 8300 S. Palm Drive, Pembroke Pines, FL 33025	
Question Due Date	March 19, 2024	See Section 1.8
Proposals will be	2:00 p.m. on April 2, 2024	See Section 1.8
accepted until		
Proposal Security / Bid Bond	<ul> <li>Not required.</li> <li>Required only for bidders that have a total cumulative base proposal amount that exceeds \$200,000. Proposal Security shall be in the amount of 5% of the total cumulative base amount proposed.</li> <li>Required for every bidder, regardless of proposal amount. Proposal Security shall be in the amount of 5% of the total cumulative base amount proposed.</li> <li>Required for every bidder, regardless of proposal amount. Proposal Security shall be in the amount of 5% of the total cumulative base amount proposed.</li> <li>Required for every bidder, regardless of proposal amount. Proposal Security shall be in the amount of \$10,000 or 5% of the total cumulative base amount proposed, whichever is less.</li> </ul>	See Section 4.1
100% Payment and Performance Bonds	<ul> <li>Not required.</li> <li>Required, regardless of the awarded contract amount.</li> <li>✓ Required in the event that the awarded contract exceeds \$200,000.</li> </ul>	See Section 4.2
Grant or Federal Funding Information	Not Applicable	Not Applicable

#### THE CITY OF PEMBROKE PINES PROCUREMENT DEPARTMENT 8300 SOUTH PALM DRIVE PEMBROKE PINES, FLORIDA 33025 (954) 518-9020



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- Attachment A: Non-Collusive Affidavit
- Attachment B: Sample Insurance Certificate
- Attachment C: Specimen Contract Construction Agreement
- Attachment D: Standard Release of Lien Form
- Attachment E: Traffic Signal Installation at Palm Avenue and SW 7 Street Specifications and Drawings



# **SECTION 1 - INSTRUCTIONS**

### 1.1 NOTICE

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

#### IFB # PSEN-21-01 Traffic Signal Installation at Palm Avenue and SW 7 Street

Solicitations may be obtained from the City of Pembroke Pines website at <u>http://www.ppines.com/index.aspx?NID=667</u> and on the <u>https://ppines.bonfirehub.com/</u> website.

If you have any problems downloading the solicitation, please contact the Bonfire Support at <u>Support@GoBonfire.com</u>.

If additional information help is needed with downloading the solicitation package please contact the Procurement Department at (954) 518-9020 or by email at <u>purchasing@ppines.com</u>. The Procurement Department hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the "Messages" section for the specific project on the <u>https://ppines.bonfirehub.com/</u> website. Under the "Messages" section, vendors will find the "Opportunity Q&A" tab in which they can ask their specific question(s). Responses to the questions will be provided online at <u>https://ppines.bonfirehub.com</u>. Such request must be received by the "Question Due Date" stated in the solicitation. The issuance of a response via Bonfire is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

**Proposals will be accepted until 2:00 p.m., Tuesday, April 2, 2024.** Proposals must be **submitted electronically at https://ppines.bonfirehub.com**/. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk's Office, in the City Hall Administration Building, 4<sup>th</sup> Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025.

#### **1.1.1 VIRTUAL BID OPENING**

The bid opening for this project will be held in the <u>City Clerk's Office Conference</u> <u>Room</u> located on the 4<sup>th</sup> Floor in the Charles F. Dodge City Center/City Hall Administration Building at 601 City Center Way, Pembroke Pines, Florida, 33025 at **2:30 PM on the bid due date.** 



In light of public health concerns and to ensure accessibility for all, the City encourages interested parties, vendors, and the public to participate virtually via live streaming instead of attending the meeting in person. To virtually attend the bid opening, please use the Cisco Webex Meetings platform.

#### Virtual Meeting Details:

- WebEx Meeting Link:
- Cisco Webex Meeting Number:Join by Phone Number:

https://ppines.webex.com/meet/purchasing 717 019 586 +1-408-418-9388

The public may download the **Cisco Webex Meetings app** from <u>https://www.webex.com/downloads.html/</u>

To ensure an efficient meeting process, participants are requested to mute their audio and camera during the meeting. While the public is welcome to attend the virtual bid opening, **please note that active participation and commenting will not be allowed during the proceedings.** 

For further information about the bid opening or assistance in accessing the virtual meeting, please contact:

Danny Benedit, Procurement Department City of Pembroke Pines 8300 South Palm Drive, Pembroke Pines, FL 33025 954-518-9022 or 954-518-9020 purchasing@ppines.com

### **1.2 PURPOSE**

The City of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the Contractor, to furnish all labor, materials, equipment, services and incidentals for the Traffic Signal Installation at Palm Avenue and SW 7 Street, in accordance with the terms, conditions, and specifications contained in this solicitation.

The project consists of clearing and grubbing/demolition, roadway milling and resurfacing, sidewalks, curb ramps, widening, signing and pavement markings, signalization and maintenance of traffic and any additional items to provide a complete intersection in accordance with all local and Broward County Traffic Engineering Division standards, policies, procedures, and guidelines The aforementioned project details are a summary of the work needed for the project but are not intended to be all inclusive, thereby please reference Attachment E in conjunction to the requirements outline in this bid package for the full project requirements.



### **<u>1.3</u>** SCOPE OF WORK

Refer to Attachment E: Traffic Signal Installation at Palm Avenue and SW 7 Street Specifications and Drawings for the scope of work, specifications, and drawings related to this bid. In addition, consult Attachment E in conjunction with the specifications outlined in this bid package for the full requirements.

#### **<u>1.4 PROJECT COST ESTIMATE & TIMELINE</u>**

Staff estimates this project to cost approximately \$765,052.18, which does not include permit costs.

Please note that the City will waive all City related permit, license, impact or inspection fees (including the Building Department and Engineering Department Permit Fees) related to this project. Any related State or County fees, for the aforementioned permits, will be paid by the City.

In addition, the City shall cover the cost for any other permit fees related to external entities through the City's Owner's Contingency for this project, therefore proposers should not include permit costs in their total proposal price.

The work shall be completed within 190 days from issuance of CITY's Notice to Proceed.

In addition, please note the city's average time for a contractor to apply for and receive an approved permit is 30 days; delays in this timeline caused by the contractor's failure to actively monitor the permit process and submit all required documentation in a timely manner, will count against the project's contractual completion period.

#### 1.4.1 PERMIT, LICENSE, IMPACT OR INSPECTION FEES

With the exception of the City related permit, license, impact or inspection fees (including the Building Department and Engineering Department Permit Fees), which will be waived for this project, the City does not anticipate any additional permit, license, impact or inspection fees for this project.

The City shall determine the amount of the Owner's Contingency at time of award. The Owner's Contingency may be based on a specified percent of the proposed project amount and shall be established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. Any Owner's Contingency funds that have not been utilized at the end of the project will remain with the City, if the permit fees exceed the Owner's Contingency indicated, the City will reimburse the contractor the actual amount of the permit fees required for project completion.



### **1.5 PROPOSAL REQUIREMENTS**

# The <u>https://ppines.bonfirehub.com</u> website allows for vendors to complete, scan and upload their documents as part of the proposer's submittal on the website.

Prospective proposers interested in responding to this solicitation are requested to provide all of the information listed in this section. Submittals that do not respond completely to all of requirements specified herein may be considered non-responsive and eliminated from the process. Brevity and clarity are encouraged.

The Bonfire system utilizes "Questionnaires" to request the following information from prospective proposers.

#### **<u>1.5.1 Pricing Sheet / Bid Tables</u>**

- 1. **Bid Table:** The vendor must provide their pricing through the designated lines items listed on the Excel Sheet that is available for download on the Bonfire website under the **"Pricing Sheet / Bid Table"** section. Please follow the instructions given in this package and on the Excel Sheet to complete and upload the information back onto the Bonfire website.
- 2. **Responses:** This tab of the Bid Table includes a "**Vendor Notes**" column for any additional comments regarding the requested line item(s). A comment is required in the "**Vendor Notes**" column. If the vendor does not need to submit any comments, please enter N/A or similar.

Respo	nses						
Succes	s: All data is valid!						
					Numeric	Text	
	Status	Bid/No Bid Decision	#	Item	Lump Sum Cost	Vendor Notes	Total Cost
Success:	All values provided	Bid	#0-1	Cost to complete all road related improvements including sidewalks, milling and resurface and asphalt, curb ramps and curbs shown on the plans	\$ 350,000.00	N/A	\$ 350,000.00
Success:	All values provided	Bid	#0-2	Cost to complete all traffic signal related improvements including pavement markings and signs shown on the plans	\$ 350,000.00	N/A	\$ 350,000.00
Success:	All values provided	Bid	#0-3	Cost for Payment & Performance Bond	\$ 35,000.00	N/A	\$ 35,000.00
E	Basket Total						\$ 735,000.00
(	Grand Total						\$ 735,000.00
Instructions	Responses 🕂			: (			

a. Below is a sample of the "**Primary Responses**" tab of the Bid Table:



## 1.5.2 Questionnaires

- 1. Contact Information Form
- 2. Proposer's Background Information
- 3. Vendor Registration Checklist
- 4. **References Form:** Provide specific examples of similar contracts delivered by the proposed team members. Provide details on related projects (preferably where the team was the same). A minimum of 3 references should be from the last five years and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications. In this section you will have the ability to enter information for 5 different references including the Reference Contact Information and the specific Project Information.

#### In addition, <u>do not provide City of Pembroke Pines projects as any of</u> your references and do not utilize any current City of Pembroke Pines employees as reference contacts.

- A) References Contact Information
  - a. Name of Firm, City, County or Agency
  - b. Address
  - c. Contact Name
  - d. Contact Title
  - e. Contact E-mail Address
  - f. Contact Telephone #
- B) Project Information
  - a. Name of Contractor Performing the work
  - b. Name and location of the project
  - c. Nature of the firm's responsibility on the project
  - d. Project duration
  - e. Completion (Anticipated) Date
  - f. Size of project
  - g. Cost of project
  - h. Work for which staff was responsible

### **1.5.3 Other Completed Documents**

1. Attachment A: Non-Collusive Affidavit



- 2. Proposal Security (Bid Bond Form or Cashier's Check)
  - a. Each Proposal should be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.
  - b. Contingency is not to be counted in the total amount the proposal security is based on.
  - c. Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through Bonfire.
  - d. Proposers should also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive.
  - e. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "BID SECURITY - IFB # PSEN-24-01 Traffic Signal Installation at Palm Avenue and SW 7 Street" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.
  - f. Please see SECTION 4 SPECIAL TERMS & CONDITIONS of this document for additional information.

#### **1.5.4 Optional Documentation**

- 1. Trade Secrets:
  - a. The Proposer's response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.
  - b. Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City



which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.

- c. EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE BONFIRE WEBSITE AS A SEPARATE ATTACHMENT, IN THIS SECTION, CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.
- d. The city's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records.

#### 2. Financial Statements:

- a. The City is <u>not</u> requesting the vendor to submit any financial statements for this project and prefers if the vendor does not submit financial statements. In addition, if the City needs a copy of the vendor's financial statements, the City can contact the vendor after the bid due date to request those documents. However, if the vendor does submit the financial statements, they should be uploaded in this section.
- b. Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a "public works" project.

### **3.** Additional Information:



a. Please provide any additional information that you deem necessary to complete your proposal in this section, if it has not been requested in another section.

### **1.6 VENDOR REGISTRATION DOCUMENTS**

The <u>https://ppines.bonfirehub.com/</u> website will allow vendors to update their information and documents on an as-needed basis. This process is intended to make the bidding process easier for vendors that bid on multiple City projects. This process will allow vendors to complete and submit the following standard forms and documents at any time prior to bidding on a project. In addition, the vendors will be able to utilize these same forms without the need to re-fill and re-submit the forms each time they bid on a City project. In the event that the City does not have one of the forms or documents listed below for your company, the City may reach out to your company after the bid has closed to obtain the document(s).

#### <u>Furthermore, please make sure to update this information on an as-needed basis so that all</u> pertinent information is accurate, such as local business tax receipts, and any other relevant information.

The following documents can be completed prior to the bidding process through the <u>https://ppines.bonfirehub.com/</u> website and do not need to be attached to your submittal as the Bonfire website will automatically include it.

#### **<u>1.6.1 Vendor Information Form</u>**

#### **1.6.2 Form W-9 (Rev. October 2018)**

a. Previously dated versions of this form will delay the processing of any payments to the selected vendor.

#### **1.6.3 Company Profile Form**

- 1.6.4 Sworn Statement on Public Entity Crimes Form
- **1.6.5 Equal Benefits Certification Form**
- **1.6.6 Vendor Drug-Free Workplace Certification Form**
- **1.6.7 Scrutinized Company Certification**

#### **1.6.8 E-Verify System Certification Statement**

a. Effective January 1, 2021, pursuant to Section 448.095. Florida Statues, the City may not enter into a contract with a vendor/contractor/subcontractor unless that vendor/contractor/subcontractor is registered with and uses the E-Verify system administered by the U.S. Department of Homeland Security ("DHS").



b. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

#### **1.6.9 Veteran Owned Small Business Preference Certification**

- a. If claiming Veteran Owned Small Business Preference Certification, business must attach the "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).
- b. The Veteran Owned Small Business Preference Certification form must be completed by/for the proposer; the proposer <u>WILL NOT</u> qualify for Veteran Owned Small Business Preference based on their sub-contractors' qualifications.

#### **1.6.10 Local Business Tax Receipts**

#### **1.6.11 Local Vendor Preference Certification**

#### 1.7 EVALUATION OF PROPOSALS & PROCESS OF SELECTION

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.

#### **1.8 TENTATIVE SCHEDULE OF EVENTS**

Event	Time &/or Date
Issuance of Solicitation (Posting Date)	February 27, 2024
Non-Mandatory Pre-Bid Meeting	10:00 a.m. on March 12, 2024
Question Due Date	March 19, 2024
Anticipated Date of Issuance for the	March 25, 2024
Addenda with Questions and Answers	
Proposals will be accepted until	2:00 p.m. on April 2, 2024
Proposals will be opened at	2:30 p.m. on April 2, 2024
Evaluation of Proposals by Staff	April 2 – May 15, 2024
Recommendation of Contractor to	May 15, 2024
City Commission award	
Issuance of Notice to Proceed	TBD
Project Commencement	Not later than 10 days after NTP



Project Completion 150 days after NTP

### 1.8.1 NON-MANDATORY PRE-BID MEETING

There will be a non-mandatory scheduled pre-bid meeting on March 12, 2024 at 10:00 a.m. Meeting location will be at the Public Services Building, Large Conference Room, located at 8300 S. Palm Drive, Pembroke Pines, FL 33025.

#### **1.9 SUBMISSION REQUIREMENTS**

Bids/proposals <u>must be submitted electronically</u> at <u>https://ppines.bonfirehub.com/</u> on or before 2:00 p.m. on April 2, 2024.

Please note vendors should be registered on Bonfire under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

In addition, the vendor must complete any questionnaires on the <u>https://ppines.bonfirehub.com/</u> website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded.

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the <u>https://ppines.bonfirehub.com/</u> website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. Bonfire Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact <u>Support@GoBonfire.com</u> with ample time before the bid closing date and time.

#### PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # PSEN-24-01 Traffic Signal Installation at Palm Avenue and SW 7 Street**" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

#### **PROJECT MANUAL - SPECIFICATIONS AND PLANS**

#### PROJECT NAME: TRAFFIC SIGNAL INSTALLATION AT PALM AVENUE AND SW 7 STREET

#### **PURPOSE**

THE CITY OF PEMBROKE PINES IS SEEKING BIDS FROM QUALIFIED FIRMS, HEREINAFTER REFERRED TO AS CONTRACTOR(S), TO PROVIDE SERVICES FOR THE PALM AVENUE & SW 7<sup>TH</sup> STREET INTERSECTION IMPROVEMENTS. PROJECT INCLUDES THE FOLLOWING, BUT LIMITED TO THE FOLLOWING: CLEARING AND GRUBBING/DEMOLITION, ROADWAY MILLING AND RESURFACING, SIDEWALKS, CURB RAMPS, WIDENING, SIGNING AND PAVEMENT MARKINGS, SIGNALIZATION, LIGHTING, MAINTENANCE OF TRAFFIC, AND ANY ADDITIONAL ITEMS REQUIRED TO PROVIDE A COMPLETE INTERSECTION IN ACCORDANCE WITH ALL LOCAL, AND BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) STANDARDS, POLICIES, PROCEDURES, AND GUIDELINES.

#### PRINCIPLE FEATURES OF THE WORK

- 1. WORKING HOURS ARE LIMITED TO MONDAY THROUGH THURSDAY 7:00 A.M. TO 6:00 P.M. LANE CLOSURES ARE LIMITED TO MONDAY THROUGH THURSDAY BETWEEN 9:00 A.M. AND 4:00 P.M. NO WORK IS PERMITTED ON FRIDAY, SATURDAY OR SUNDAY WITHOUT THE PERMISSION OF THE CITY ENGINEER OR HIS DESIGNEE.
- 2. PROPOSER ACKNOWLEDGES THAT THEY HAVE INSPECTED THE SITE AND THAT HE/SHE IS FAMILIAR WITH EXISTING SITE CONDITIONS.
- 3. THE AWARDED PROPOSER SHALL BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS, LABOR, TOOLS, PARTS, WIRING, EQUIPMENT, ELECTRICAL PARTS, AND MAKING ALL CONNECTIONS NEEDED TO REMOVE, INSTALL AND/OR REPLACE THE ITEMS NOTED ON THE CONTRACT PLANS.
- 4. THE AWARDED PROPOSER SHALL USE EXTREME CARE NOT TO DAMAGE ANY PORTION OF THE EXISTING ROADWAY AND THE SURROUNDING PROPERTY. THE PROPOSER SHALL REPAIR ANY DAMAGE CAUSED BY THIS PROJECT.
- PROPOSER ACKNOWLEDGES THAT THEY ARE AWARE OF THE \$250 PER DAY IN LIQUIDATED DAMAGES THEY WILL BE ASSESSED IF THEY FAIL TO COMPLETE THE PROJECT ON TIME, OR NOT FOLLOWING THE PLANS AND/OR SPECIFICATIONS INCLUDING PROPER MAINTENANCE OF TRAFFIC.
- 6. THE PROPOSER FURTHER ACKNOWLEDGES THAT THE CITY MAY HIRE AN INDEPENDENT CONTRACTOR OF THEIR CHOICE, TO MAKE TEMPORARY REPAIRS TO THE INTERSECTION IN THE EVENT THE AWARDED PROPOSER FAILS TO REMOVE/INSTALL/REPLACE THE ITEMS SHOWN ON THE PLANS. FAILS TO MAKE ALL PROPER CONNECTIONS AND/OR FAILS TO RETURN THIS INTERSECTION TO NORMAL OPERATION. PROPOSER AGREES THAT ALL FUNDS TO PAY FOR THE INDEPENDENT CONTRACTOR WILL BE TAKEN FROM THE FUNDS USED TO PAY THE AWARDED CONTRACT AND SUBTRACTED FROM THE AMOUNT DUE TO THE AWARDED PROPOSER.
- 7. THE AWARDED PROPOSER AGREES TO REQUEST AND HAVE INSEPCTIONS DONE BY THE CITY OF PEMBROKE PINES ENVIRONMENTAL SERVICES DIVISION AND BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. CONTRACTOR AGREES THAT 20% OF THE CONTRACT AMOUNT WILL BE WITHHELD UNTIL SUCH TIME AS ALL INSPECTIONS ARE APPROVED BY BOTH BROWARD COUNTY TRAFFIC ENGINEERING DIVISION AND THE ENGINEERING DIVISION.

# Attachment E

- 8. THE PROPOSER IS REQUIRED TO COMPLETE THE PROPOSAL SHEET AND PROVIDE UNIT PRICES IN THE PLAN SHEETS ATTACHED TO THE PROPOSAL. PROPOSALS THAT FAIL TO SUBMIT UNIT PRICES WILL BE CONSIDERED NONRESPONSIVE.
- 9. THE PROPOSER IS REQUIRED TO HAVE A GENERAL CONTRACTORS LICENSE AND HAVE PRIOR EXPERIENCE IN THE INSTALLATION OF TRAFFIC SIGNALS AND ROAD IMPROEVEMENTS. THE PROPOSER SHALL SUBMIT A COPY OF THEIR LICENSE, A LIST OF ALL PROPOSED SUBCONTRACTORS, A LIST OF PREVIOUS PROJECTS COMPLETED IN THE LAST FIVE (5) YEARS, AND A LIST OF REFERENCES FOR THOSE PROJECTS.
- 10. CONTRACTOR IS RESPONSIBLE FOR MILLING 1-1/2" ASPHALT WITHIN THE LIMITS OUTLINED ON THE ATTACHED SET OF PLANS. CONTRACTOR SHALL PAVE FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE – INCLUDING ALL INTERSECTIONS AND TURN LANES UNLESS NOTED OTHERWISE ON THE PLANS. ASPHALT CORINGS INDICATE THAT THE EXISTING ASPHALT ON PALM AVE IS BETWEEN 1-1/2" AND 2-3/4" OF ASPHALT. THE ASPHALT MAY BE LESS THAN 1-1/2" IN PLACES AND MORE THAN 2-3/4" IN SOME PLACES. THE CONTRACTOR IS REQUIRED TO MILL 1-1/2" OF THE ASPHALT FROM ALL AREAS UNLESS THE ROCK BASE IS EXPOSED. IF THE ROCK BASE IS EXPOSED THE CONTRACTOR SHALL ADJUST THE MILL DEPTH TO A DEPTH SUCH THAT THE ROCK BASE IS NO LONGER EXPOSED.
- 11. ALL NEW ASPHALT IS TO BE 1-1/2" TYPE SP-9.5 PER SECTION 334 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S REQUIREMENTS FOR HOT MIX ASPHALT FOR LOCAL AGENCIES.
- 12. THE CONTRACTOR MUST PAVE THE AREAS MILLED AND TEMPORARILY STRIPE (TRAFFIC PAINT) THE ROAD ON THE SAME DAY. NO MILLING OR ASPHALT WORK IS PERMITTED ON RAIN DAYS. ALL MILLING AND ASPHALT WORK MUST BE COMPLETED BY 4:00 P.M. EACH DAY.
- 13. ALL THERMOPLASTIC MARKINGS INSTALLED ON THIS PROJECT ARE REQUIRED TO MEET BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS. A DETAIL SHEET IS ATTACHED TO THE PLANS.
- 14. CONTRACTOR TO INSTALL SIGNALIZATION IMPROVEMENTS PER PLANS. ALL SIGNALIZATION IMPROVEMENTS TO COMPLY WITH BROWARD COUNTY REQUIREMENTS.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND REPLACING/REPAIRING ANY DRIVEWAYS, MAILBOXES, GRASS, CURBS, UTILITIES, SIGNS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED AS A RESULT OF THE MILLING, STRIPING AND/OR PAVING OPERATIONS.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL MATERIALS, PROPER MAINTENANCE OF TRAFFIC, LABOR, AND EQUIPMENT REQUIRED FOR THE INSTALLATION OF PERMANENT THERMOPLASTIC MARKINGS. TEMPORARY ASPHALT IS TO BE A MINIMUM OF ¾" OF COMPACTED SP-9.5 ASPHALT OR APPROVED EQUAL. ANY TEMPORARY ASPHALT INSTALLED MUST BE REMOVED PRIOR TO THE INSTALLATION OF THE PERMANENT ASPHALT. PERMANENT ASPHALT IS TO BE A SINGLE LIFT OF SP-9.5 ASPHALT. THE ASPHALT PRICE MUST INCLUDE INSTALLATION, MOBILIZATION, MILLING, ALL MATERIALS, ALL LABOR, TACK COAT, PRIME COAT FOR EXPOSED ROCK, ASPHALT PREPARATION AND REPLACEMENT OF ALL EXISTING TRAFFIC MARKINGS. A LEVELING COURSE OR ADDITIONAL ASPHALT WILL BE REQUIRED WHERE THE ROCK IS EXPOSED/GOUGED DURING THE MILLING PROCESS. THESE SERVICES MUST BE INCLUDED IN THE TOTAL COST OF THE PROJECT. ALL EXPOSED ROCK MUST BE PROOF-ROLLED BEFORE IT IS PAVED.
- 17. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL GRASS FROM THE EDGE OF PAVEMENT PRIOR TO PAVING.

# Attachment E

- 18. CONTRACTOR MUST PROVIDE PROPER MAINTENANCE OF TRAFFIC AT ALL TIMES PER FDOT INDEX SERIES# 600. A FLAG PERSON AND AN ARROW BOARD MUST BE PRESENT ON BOTH ENDS OF CONSTRUCTION AND ADVANCED WARNING SIGNS MUST BE PROVIDED PER FDOT INDEX SERIES #600 WHEN ANY WORK IS BEING DONE, LANES ARE BEING CLOSED OR A DETOUR IS IN PLACE. THE CONTRACTOR IS REQUIRED TO SUBMIT AND HAVE APPROVED BY BROWARD COUNTY TRAFFIC ENGINEERING DIVISION AND THE CITY ENGINEER A MAINTENANCE OF TRAFFIC PLAN PRIOR TO STARTING WORK AND FOR THE REQUIRED LANE CLOSINGS ON PALM AVENUE AND SW 7 STREET.
- 19. ONE-HALF OF ALL STREETS MUST BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR MUST PROVIDE ACCESS TO ALL HOMES, SCHOOLS, BUSINESS, AND PARKS AT ALL TIMES EXCEPT WHEN ACTUALLY PAVING IN FRONT OF THAT PARTICULAR SUBDIVISION ENTRANCE, BUSINESS OR DRIVEWAY.
- 20. CONTRACTOR MUST ADJUST ALL NEW ASPHALT AT ALL DRIVEWAYS TO BE FLUSH WITH THE EXISTING DRIVEWAY.
- 21. CONTRACTOR IS TO KEEP THE PRIMING AND TACKING EQUIPMENT AS CLOSE AS POSSIBLE TO THE ASPHALT MACHINE TO MINIMIZE THE AMOUNT OF EXPOSED PRIME AND/ OR TACK COAT. CONTRACTOR IS RESPONSIBLE FOR CLEANING/REPLACING ALL ROADS, MARKINGS, SIDEWALKS OR OTHER PROPERTY DAMAGED BY THE TACKING AND/OR PRIMING OPERATION.
- 22. ANY ASPHALT AREAS WHICH ARE NOT STRAIGHT AND/OR LOOSE WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- 23. CONTRACTOR IS TO USE EXTREME CARE NOT TO DAMAGE PAVERS, CONCRETE OR DECORATIVE PAVERS ADJACENT TO THIS PROJECT. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY THIS PROJECT.
- 24. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL MANHOLE COVERS AND WATER VALVES WITH RING RISERS AFTER MILLING AND PRIOR TO PAVING IF NEEDED. CONTRACTOR MUST ALSO SEAL RISERS WITH RAMNEK OR OAE.
- 25. CONTRACTOR MUST CLEAN ALL CATCH BASINS, MANHOLE COVERS & VALVES AND/OR TAKE PRECAUTIONS TO KEEP BASINS, COVERS & VALVES FREE FROM ASPHALT. CONTRACTOR MUST INSTALL FILTER CLOTH IN ALL CATCH BASINS ADJACENT TO HIATUS ROAD PRIOR TO STARTING THE PAVING OPERATION AND REMOVE THE FILTER CLOTH AFTER THE PAVING OPERATION IS COMPLETE.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER EROSION CONTROL AND FOR PROPERLY PROTECTING ALL CATCH BASINS AND DRAINAGE INLETS.
- 27. ALL ASPHALT WORK TO MEET AND BE INSTALLED CONSISTENT WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 28. ALL SIDEWALK REPLACEMENT IS TO MEET CITY OF PEMBROKE PINES ENGINEERING DEPARTMENT STANDARD R-28. ALL REQUIRED HANDICAP RAMPS TO HAVE A TACTILE SURFACE MEETING FDOT INDEX 304. THE CONTRACTOR IS RESPONSIBLE FOR OFFSETTING THE SIDEWALKS AS NEEDED IN ORDER TO AVOID EXISTING SHRUBS AND TREES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY IRRIGATION DAMAGED DURING SIDEWALK INSTALLATION.
- 29. THE CONTRACTOR IS REQUIRED TO REQUEST AND HAVE A FORMWORK INSPECTION DONE BY THE CITY OF PEMBROKE PINES ENGINEERING DIVISION PRIOR TO POURING ANY NEW SIDEWALK.
- 30. THE CONTRACTOR IS REQUIRED TO REPAIR ALL DAMAGE TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THIS PROJECT.

# Attachment E

- 31. CONTRACTOR TO SUBMIT A SET OF AS-BUILTS PLANS. THE COMPLETED RECORD PLANS SHALL BE CERTIFIED BY A PROFESSIONAL SURVEYOR & MAPPER REGISTERED IN THE STATE OF FLORIDA. THE CONTRACTOR TO FURNISH TO THE CITY 1 SET OF FULL SCALED ENGINEERING PLANS AND ONE USB DRIVE OF FINAL CADD FILES.
- 32. WITHIN THIRTY (30) CALANDER DAYS FROM THE FIRST NOTICE-TO-PROCEED (NTP), THE CONTRACTOR SHALL SUBMIT A DETAILED CRITICAL PATH METHOD (CMP) SCHEDULE OF THE ENTIRE PROJECT TO CITY PROJECT MANAGER.
- 33. DURING CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE CITY'S PROJECT MANAGER ON A WEEKLY BASIS AND PROVIDE A TWO (2) WEEK LOOK-AHEAD FOR ACTIVITIES TO BE PERFORMED THE UPCOMING WEEK.
- 34. CONTRACTOR TO SCHEDULE AND COORDINATE A PRE-CONSTRUCTION MEETING WITH ENGINEER OF RECORD AND CITY STAFF PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 35. CONTRACTOR SHALL FURNISH, AT ITS EXPENSE, PROPERLY ZONED AREAS SUITABLE FOR MATERIAL STORAGE AND EQUIPMENT SERVICE AND STORAGE. NO MATERIAL OR SERVICE EQUIPMENT MAY BE STORED IN THE PUBLIC RIGHT-OF-AWAY WITHOUT PRIOR AUTHORIZATION BY THE AGENCY HAVING JURISDICTION. STORAGE SITES SHALL KEEP THE STORAGE SITES IN A CLEAN AND ORDERLY CONDITION SO AS NOT TO CAUSE NUISANCE OR SIGHT OBSTRUCTION TO MOTORISTS, BICYCLISTS, PEDESTRIANS, RESIDNETS, AND BUSINESSES. NO MATERIAL OR SERVICE EQUIPMENT MAY BE STORED WITHIN THE ROADWAY'S CLEAR ZONE UNLESS PROPERTY PROTECTED BY TEMPORARY BARRIER WALL OR GUARDRAIL.
- 36. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN A SAFE, NEAT, AND PRESENTABLE CONDITION; CLEAR OF ALL TEMPORARY STRUCTURES AND SURPLUS MATERIALS, RUBBISH, BROKEN ASPHALT, BROKEN CONCRETE, MISCELLANEOUS CONDUITM REINFORCING STEEL, SHARP OBJECTS, ECT. AND LEAVE THE SITE IN AN UNOBSTRUCTED CONDITION EACH DAY SO THAT MOTORIST, BICYCLIST, AND PEDESTRIANS ARE NOT ENDANGERED OR PRESENTED WITH CONDITIONS THAT COULD CUASE THEM TO BE EXPOSED TO HARMFUL OR DANGEROUS CONDITIONS, OR TO BECOME DISTRACTED, CONFUSED, OR ILL-TEMPERED.
- 37. CONTRACTOR TO COORDINATE WITH BROWARD COUNTY TRAFFIC ENGINEERING DIVISION TO ENSURE THE PROPRIETARY PRODUCTS CERTIFICATION PROCESS IS IMPLEMENTED SPECIFICALLY FOR THIS PROJECT FOR ALL PROPOSED EQUIPMENT.
- 38. ALL PRODUCTS TO COMPLY WITH BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND COUNTY'S APPROVAL.

# DRAFT DOCUMENT FOR COMMISSION REVIEW



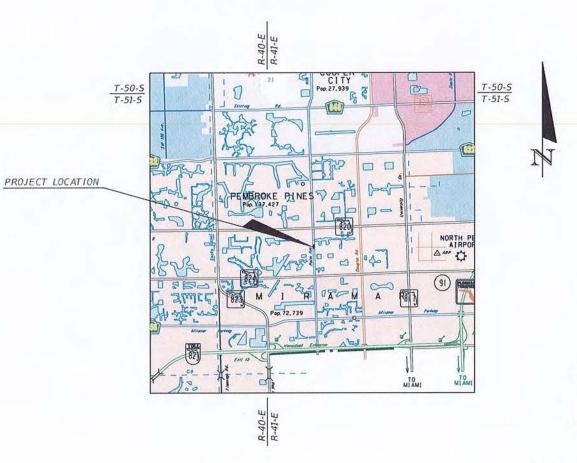


CITY OF PEMBROKE PINES

PALM AVENUE & SW 7TH STREET

# SIGNALIZATION & SIGNING & PAVEMENT MARKINGS PLANS

R.J. BEHAR PROJECT NO. 20006



100% SUBMITTAL August, 2023

	REVISIONS
DATE	DESCRIPTIO
5/9/23	

INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1 2	TABULATION OF QUANTITIES
3 - 4	GENERAL NOTES
5	ROADWAY PLAN
6	SIGNALIZATION PLAN
7	SIGNING & PAVEMENT MARKING PLAN
7 8	GUIDE SIGN WORKSHEET
9	MAST ARM TABULATION
10	STANDARD MAST ARM ASSEMBLIES DATA TABLE
1 of 1	PAVEMENT MARKING AND SIGNS DETAIL
	(BROWARD COUNTY STANDARD DETAIL)
1 of 1	GROUND SIGN ASSEMBLY DETAILS
	(BROWARD COUNTY STANDARD DETAIL)

GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION. CURRENT EDITION AVAILABLE ON THE FOLLOWING WEBSITE: http://www.fdot.gov/design/standardplans

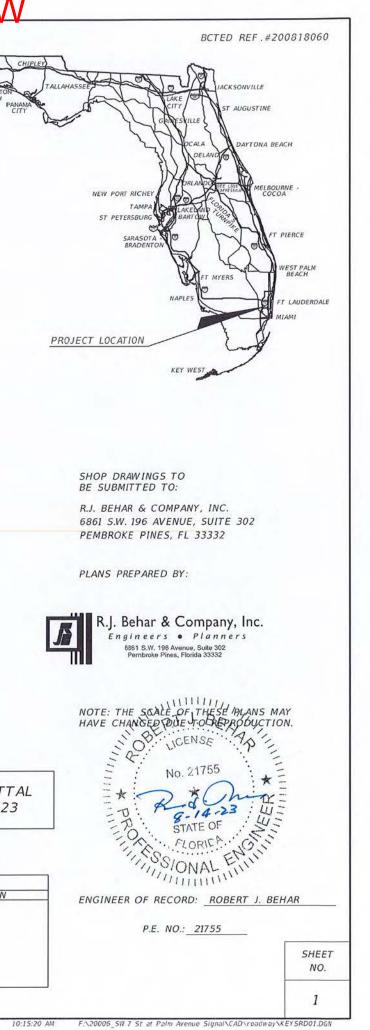
MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS)

BROWARD COUNTY MINIMUM STANDARDS

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND SPECIFICATIONS

8/9/2023



# **DRAFT DOCUMENT FOR COMMISSION REVIEW**

TABULATION OF QUANTITIES

PAY	DECEDIDEION		SHEET NUMBERS										
ITEM NO.	DESCRIPTION	UNIT		5		6		7					
NO.			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PL
			1	1									
101-1	MOBILIZATION	LS	1	1					1				
102-1	MAINTENANCE OF TRAFFIC	LS	-	1									
110-1-1	CLEARING AND GRUBBING	LS	1	l									
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	26	5									
327-70-01	MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)	SY	357	1									
285-709	OPTIONAL BASE, BASE GROUP 09	SY	7	1							C		
334-1-13	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C	TN	197	'									
337-7-82	ASPHALTIC FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	TN	197	'									
520-1-10	CONCRETE CURB AND GUTTER (TYPE "F") INCLUDES COST OF LIMEROCK	LF	80										
522-2	CONCRETE SIDEWALK (6" THICK)(INCLUDING PEDESTRIAN RAMP)	SY	34										
527-2	DETECTABLE WARNING	SF	18	3	1								
											-		-
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF			60						-		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			285	-							-
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI		-	1		-			-			-
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	-	-	26								-
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			1								-
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD, METER PURCHASED BY CONTRACTOR	AS	-	13	1								
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF		-	30	-				_			-
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA		-	1				-				
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA		-	3		-						
649-21-1	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 30'	EA			2		-						$\vdash$
649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA			1		_			-	-		-
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA			1		A						-
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	-	-	8						-		-
650-1-18	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION, 1 WAY	AS	-	1	2		-		-				
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	-		2						-		-
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAY	AS			1		-						
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA			1		-		-				$\vdash$
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	-		3								-
665-1-12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA		-	2								
670-5-140	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL MODEL 2070	AS	-	-									-
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA											-
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	-	-				-		-	-		-
		AS		-			3		-				
700-1-60	SINGLE POST SIGN, REMOVE	EA		-			5						-
700-5-21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	EA			4	-			-	-			-
		EA		-			110						-
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	LF	-				344				-		-
	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF		-	-		60			-			-
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	-		-		122		-		-		-
shares on local diversity of the local state of the	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	EA					9		1				
	THERMO., STD., ARROWS	LF	-	-	-	-	32		-		1		
	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRONS	SF					13						
	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	GM	-				0.283		-	-			-
	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	-	-	-		0.283						-
	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SKIP, 6" (10/30)	GM	-				0.030				-		-
	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM		-			29				-		-
	PERMANENT TAPE, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK		-				29						-
712.10.170	PERMANENT TAPE, ARROWS	EA	1	1			4	1	1		1.	4	1



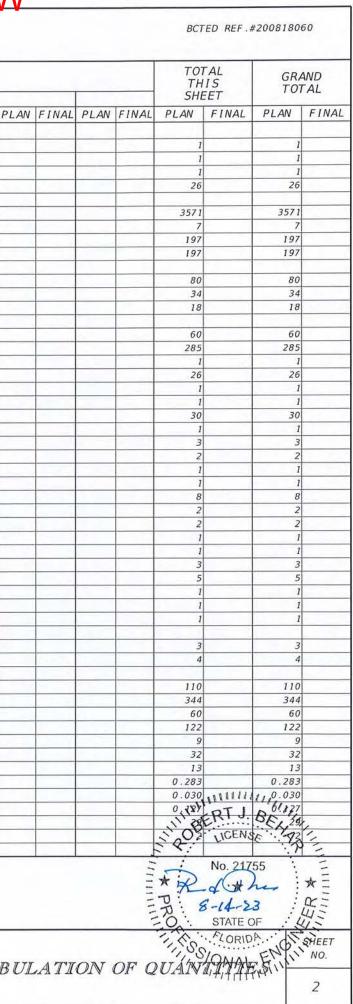
CITY OF PEMBROKE PINES ENVIRONMENT-ENGINEERING DIVISION 8300 S. Palm Drive Pembroke Pines, FL 33025



R.J. Behar & Company, Engineers • Planner 6861 S.W. 196 Avenue, Suite 302 Pembroke Pines, Florida 33332 ROBERT J. BEHAR, P.E. LICENSE NO. 217

, Inc.	BROWARD	COUNTY, FLORIDA	
rs	RJB NO.	INTERSECTION	TABL
1755	20006	PALM AVENUE & SW 7th ST	

DATE



F:\20006\_SW 7 St at Palm Avenue Signal\CAD\signals\TABOSG01.dgn

# DRAFT DOCUMENT FOR COMMISSION REVIE

#### SURVEY

- 1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS 2. SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS: SELVIN P. BRUCE, P.S.M. P.S.M. NO: 5290

BISCAYNE ENGINEERING COMPANY, INC. 529 WEST ELAGLER STREET MIAMI EL 33130 CERTIFICATE OF AUTHORIZATION: LB-0000129

- THERE MAY BE ADDITIONAL EASEMENTS, RIGHTS-OF-WAY, OR OTHER RESTRICTIONS THAT ARE NOT SHOWN ON THIS SURVEY THAT MAY 3. BE FOUND IN THE PUBLIC RECORDS OF BROWARD COUNTY
- THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DISTURBANCE ALL SURVEY MONUMENTS, STAKES AND BENCH MARKS. ALL MAJOR 4. SURVEY MONUMENTS THAT HAVE BEEN DAMAGED BY THE CONTRACTOR, INCLUDING SECTION CORNERS, ½ SECTION CORNERS, PROPERTY CORNERS OR BLOCK CONTROL POINTS SHALL BE REPLACED UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR AND MAPPER AT THE CONTRACTORS EXPENSE WITH MARKERS OF A SIZE AND TYPE APPROVED BY THE SURVEYOR.

#### UTILITIES

- THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS IS BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE 1. CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
- IT IS THE INTENT OF THESE PLANS THAT THE PROPOSED EQUIPMENT TO BE INSTALLED IS TO BE PLACED IN SUCH A MANNER SO AS 2. TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION TO PLAN THEIR WORK WITHIN THE DESIGN OR SPECIFIED PARAMETERS, AND THE SPECIFIED TIMEFRAME. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES.
- THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, OR WHERE HAND-DIGGING IS 3. SPECIFIED ON THE PLANS. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND EXISTING UTILITIES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION AND PROTECTION, REPAIR AND/OR REPLACEMENT OF ALL 4. UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL COORDINATE WITH FPL AND FIELD VERIFY LOCATION(S) OF FPL SERVICE POINT PRIOR TO INSTALLING 5. CONDUIT. DISCONNECT. AND PULL BOXES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRIC POWER TO DETERMINE IF A SERVICE 6. PROCESSING FEE IS REQUIRED. IF REQUIRED, THE FEE SHALL BE REFLECTED IN THE CONTRACTORS BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.
- THE CONTRACTOR IS ADVISED THAT THE PRESENCE OF OVERHEAD ELECTRIC CONDUCTORS IN CLOSE PROXIMITY TO THE LOCATIONS OF 7. THE PROPOSED SIGNAL MAST ARMS MAY LIMIT THE TYPE OF EQUIPMENT THAT CAN BE USED IN CONSTRUCTION OF THE MAST ARM AND ITS FOUNDATION. CONTRACTOR SHALL COORDINATE WITH FPL TO DEACTIVATE LINES IF NECESSARY.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (1- 800-432-4770) AND UTILITY 8. OWNERS LISTED BELOW TWO (2) BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. A CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT WHEN THE UTILITY COMPANY LOCATES THEIR FACILITIES. THE LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AND THE UTILITY REPRESENTATIVE WHEN NECESSARY DURING CONSTRUCTION.

UTILITY OWNERS	TELEPHONE NUMBERS	CONTACT PERSON		
COMCAST CABLE	954-447-8405	LEONARD MAXWELL-NEWBOLD		
BROWARD COUNTY TRAFFIC	954-847-2745	ROBERT BLOUND		
FLORIDA POWER & LIGHT	305-378-2634	JOEL BRAY		
BUCKEYE PIPELINE CO	832-541-3946	DANIEL MANGUM		
CITY OF PEMBROKE PINES SEWER-WATER	954-435-6511	DENA MANNING		
MASTEC, INC.	512-202-1633	RICKIE QUINN		
INVESTIGATIONS	469-886-4091	-		
AT&T DISTRIBUTION	561-997-0240	DINO FARRUGGIO		

#### BCTED GENERAL NOTES

UNLESS OTHERWISE NOTED IN THE TECHNICAL SPECIFICATIONS: INSTALLATION, ACCEPTANCE, AND PAYMENT FOR ALL ITEMS REQUIRED 1. IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING, THE STANDARDS AND SPECIFICATIONS OF THE CITY OF PEMBROKE PINES, FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS), FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD INDEXES), MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), BROWARD COUNTY MINIMUM STANDARDS, BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND SPECIFICATIONS, AND ANY OR ALL BROWARD COUNTY TRAFFIC ENGINEERING REQUIREMENTS THAT MEET OR EXCEED THOSE FOUND IN THE ABOVE REFERENCED DOCUMENTS.

DATE		
	DATE	

- 2. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE AND FOR THE AMOUNT OF COORDINATION REQUIRED. THE CONTRACTOR SHALL COORDINATE ANY AND ALL CONSTRUCTION ACTIVITIES AND TRAFFIC CONTROL PHASES WITH ANY OTHER CONTRACTOR WITHIN OR ADJACENT TO PROJECT LIMITS.
- NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE 3. SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENCES ALONG THE PROPOSED CONSTRUCTION AREA.
- OFFSETS TO POLES, CABINETS AND PULL BOXES ARE TO THE CENTER OF THOSE ITEMS. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE 4 INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE. FIELD ADJUSTMENT OF ALL PROPOSED EQUIPMENT MAY BECOME NECESSARY TO ACCOMMODATE EXISTING FIELD CONDITIONS. VARIATIONS FROM THE PROPOSED LOCATION MUST BE PRE-APPROVED BY THE ENGINEER OF RECORD IN WRITING.
- THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE 5. APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO ANY FURTHER WORK ACTIVITY.

#### STRUCTURES

1. THE CONTRACTOR SHALL VERIFY STRUCTURE ORIENTATION PRIOR TO PLACEMENT. STRUCTURES OF INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTORS EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES AND FOUNDATIONS ARE SET TO ELEVATIONS THAT WILL MEET GRADING REQUIREMENTS AT SIDEWALKS AND SLOPES, AND VERTICAL CLEARANCE REQUIREMENTS SPECIFIED IN FDOT, NUTCD, AND COUNTY STANDARDS PRIOR TO INSTALLING STRUCTURAL MATERIAL. IF A DISCREPANCY IS FOUND, CONTACT THE ENGINEER OF RECORD.

#### SIGNALIZATION NOTES

- 1. AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE OF COMMENCEMENT, VIA EMAIL, TO TEINSPECTION@BROWARD.ORG. NOTICE SHALL INCLUDE THE DATE OF COMMENCEMENT, LOCATION AND TYPE OF WORK & INFORMATION REGARDING ANY MALFUNCTIONING SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN AND FILL OUT THE COUNTY'S "ACCEPTANCE OF TRAFFIC SIGNAL MAINTENANCE AND TIMING BY CONTRACTOR DURING CONSTRUCTION AND BURN-IN PERIOD" FORM LETTER, AVAILABLE AT BCTED, PRIOR TO COMMENCEMENT OF ANY WORK. MAINTENANCE OF THE SIGNAL OPERATION, INCLUDING TIMING ADJUSTMENTS, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE COUNTY ISSUES WRITTEN FINAL ACCEPTANCE OF THE INTERSECTION, AT WHICH TIME MAINTENANCE RESPONSIBILITIES ARE PROPERLY TRANSFERRED TO THE COUNTY.
- APPROVAL OF SHOP DRAWINGS DOES NOT CONSTITUTE A WARRANTY THAT THE SIGNAL EQUIPMENT COMPLIES WITH THE STANDARDS OF THE 2 MAINTAINING AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THE PROPOSED SIGNAL EQUIPMENT MEETS THE REQUIREMENTS SPECIFIED IN THE CONTRACT, SPECIFICATIONS AND CONTRACT PLANS.
- THE VIDEO DETECTION SYSTEM SHALL BE IN ACCORDANCE TO THE TECHNICAL SPECIFICATIONS INCLUDED IN THE 'Vehicle Detection Pay 3. Item Notes' DOCUMENT POSTED ON THE BROWARD COUNTY TRAFFIC ENGINEERING WEBSITE AT http://www.broward.org/Traffic/Pages/Publications.aspx. THE VIDEO DETECTION SYSTEM SHALL BE ON THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) APPROVED PRODUCTS LIST AND MEET ALL QUALIFYING SPECIFICATIONS AS DESCRIBED IN FDOT SECTION 660 "VEHICLE DETECTION SYSTEM" AS IT APPLIES TO VIDEO VEHICLE DETECTION SYSTEMS.

#### SIGNING AND PAVEMENT MARKINGS NOTES

- PAVEMENT MARKINGS SHALL BE PLACED ACCORDING TO THE BROWARD COUNTY PAVEMENT MARKING AND SIGNS DETAIL SHEET. 1.
- MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT. 2
- REMOVAL OF EXISTING STOP SIGNS SHALL OCCUR IMMEDIATELY AFTER THE TRAFFIC SIGNAL IS OPERATIONAL. 3.
- ALL TRAFFIC CONTROL DEVICES MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE 4. REPLACED BY CONTRACTOR USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS.

#### THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR 2. MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
- THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, WID FOR 1915 3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OF CHAINO OF THE FORMATION OF CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKING AND SIGNING. IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE & SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF MAY THAT IS WARKINGS AND SIGNING WARKINGS AND SIGNING IN RIGHT-OF MAY THAT IS WARKINGS AND SIGNING WARKINGS NOT DEDICATED FOR PUBLIC USE, AND SIDEWALK WORK.

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8300 S. Palm Drive Pembroke Pines, FL 33025	6861 S.W. 196 Avenue, Suite 302 Pembroke Pines, Florida 33332 ROBERT J. BEHAR, P.E. LICENSE NO. 21755	20006	PALM AVENUE & SW 7th ST	
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# Attachment E

- THE TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST EDITION OF THE FDOT STANDARD PLANS, MUTCD, AND STANDARD SPECIFICATIONS. FDOT INDICES 102-612, 102-613, 102-616 & 102-660 SHALL BE USED FOR THE CONSTRUCTION OF THE SIGNALIZATION AND SIGNING AND PAVEMENT MARKINGS.
- IF THE CONTRACTOR IS REQUIRED BY BROWARD COUNTY TO DEVELOP AND IMPLEMENT MODIFICATIONS TO THE TRAFFIC SIGNAL 2. OPERATIONS, OR IF THE CONTRACTOR DETERMINES A NEED TO MODIFY THE TRAFFIC SIGNAL OPERATIONS, THESE CHANGES MUST BE REPORTED TO THE BCTED'S CENTRAL COMPUTER SITE AT 954-847-2770 PRIOR TO THEIR IMPLEMENTATION
- EARLY "TURN-ON" OF ANY NEW SIGNAL INSTALLATION WILL ONLY BE PERMITTED IF AUTHORIZED IN WRITING BY BCTED. IF THIS 3. NEED ARISES BOTED WILL NEGOTIATE WITH THE CONTRACTOR FOR MAINTENANCE OF THE SIGNAL NEW SIGNAL LOCATIONS SHALL BE FLASHED NO LESS THAN THREE DAYS, AND NO MORE THAN FOURTEEN DAYS PRIOR TO THE INSPECTION. SIGNAL HEADS MUST BE BAGGED WITH BURLAP OR TURNED UNDER UNTIL THIS TIME.
- THE CONTRACTOR SHALL MAINTAIN ON-LINE COMMUNICATIONS OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT 4 COMMUNICATION CABLE OR TELCO PHONE LINES, FIBER EQUIPMENT, OR CELLULAR EQUIPMENT DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS AS NECESSARY. A TIME-BASED-COORDINATION (TBC) SYSTEM IS TO BE UTILIZED ONLY IF PROVISION OF THE TEMPORARY LINES IS NOT FEASIBLE. THE DEVELOPMENT AND IMPLEMENTATION OF THE TBC PROGRAM IS TO BE PERFORMED BY THE CONTRACTOR WITH OVERSIGHT BY A TRAFFIC ENGINEER REGISTERED IN THE STATE OF FLORIDA. COST OF MAINTAINING COMMUNICATION WITH THE CENTRAL SITE, INCLUDING TEMPORARY LINES AND CONNECTIONS, SHALL BE PAID FOR UNDER THE MAINTENANCE OF TRAFFIC PAY ITEM NUMBER. ALL REPORTED MALFUNCTIONS OF THE COMMUNICATIONS SYSTEM SHALL BE RESPONDED TO BY THE CONTRACTOR WITHIN TWO HOURS AND SHALL BE REPAIRED WITHIN 24 HOURS.
- THE REGULATORY SPEED LIMITS ON BOTH ROADWAY CORRIDORS FOR THE INTERSECTION(S) DURING CONSTRUCTION SHALL BE 5. MAINTAINED AT THE EXISTING POSTED SPEED LIMITS, UNLESS A SPEED REDUCTION IS REQUIRED FOR SAFE ROUTES TO SCHOOL.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE AND ADEQUATE WALKING SURFACE APPLICABLE TO THE AMERICANS WITH 6. DISABILITIES ACT (ADA) FOR PEDESTRIANS DURING CONSTRUCTION. SAFE WALK ROUTES FOR ALL PEDESTRIANS AND TRANSIT BUS USERS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THIS INCLUDES SAFE WALK ROUTES/ACCESS TO AND FROM EXISTING BUS STOPS AND TRANSIT VEHICLES
- 7. THERE WILL BE NO LANE CLOSURES ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 3:30 PM TO 7:00 PM MONDAY THROUGH FRIDAY. ONE TRAVEL LANE CLOSURE SHALL BE ALLOWABLE IN EITHER DIRECTION DURING ACTIVE WORK PERIODS BETWEEN 9:00 AM TO 3:30 PM MONDAY THROUGH FRIDAY, ALL LANE CLOSURES REQUESTED DURING THESE TIMES SHALL BE SUBMITTED AT LEAST TWO WEEKS AHEAD OF THE DATE OF CLOSURE, AND SHALL BE APPROVED BY THE COUNTY IN ACCORDANCE WITH FDOT LANE CLOSURE REQUIREMENTS.
- LANE CLOSURES ON SATURDAY AND SUNDAY BETWEEN 8:00 AM TO 5:00 PM WILL BE ALLOWED, BUT ONLY WITH ADVANCED APPROVAL BY 8. THE CITY OF PEMBROKE PINES AND THE COUNTY, AND NOT DURING SPECIAL EVENTS. THE REQUEST FOR A LANE CLOSURE MUST BE MADE AT LEAST THREE (3) WEEKS IN ADVANCE OF THE SPECIFIED DATE FOR THE CLOSURE. THE REQUEST SHALL BE MADE THROUGH THE DESIGN CRITERIA PROFESSIONAL IN ACCORDANCE WITH FOOT LANE CLOSURE REQUIREMENTS.
- IF TWO OR MORE LANES MUST BE CLOSED AT A TIME, THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE CITY AND THE COUNTY AT 9. LEAST THREE (3) WEEKS IN ADVANCE AND MAKE ARRANGEMENTS FOR THE WORK TO OCCUR BETWEEN THE HOURS OF 9:00 PM AND 5:00 AM ON MONDAY THROUGH SUNDAY WITH THE PROPER USE OF LAW ENFORCEMENT OFFICER(S). COSTS FOR THE LAW ENFORCEMENT OFFICERS SHALL BE INCLUDED IN THE TOTAL CONTRACT PRICE UNDER MAINTENANCE OF TRAFFIC.
- 10. THE CONTRACTOR SHALL REPORT ALL LANE CLOSURES, INCLUDING ROADWAY RAMP CLOSURES, TO THE LOCAL EMERGENCY AGENCIES, THE MEDIA AND THE COUNTY AT LEAST ONE WEEK PRIOR TO THE SCHEDULED CLOSURES. ALSO, CONTRACTOR SHALL DEVELOP THE PROJECT TO BE ABLE TO PROVIDE FOR ALL LANES OF TRAFFIC TO BE OPEN IN THE EVENT OF AN EMERGENCY OR IF THE LANE CLOSURE CAUSES A DRIVER DELAY GREATER THAN 20 MINUTES. AT THE DISCRETION OF THE ENGINEER, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN ANY CLOSED LANES UNTIL SUCH TIME AS TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 11. THE CONSTRUCTION AND INSTALLATION OF TRAFFIC SIGNAL MAST ARMS AND THEIR FOUNDATIONS SHALL BE LIMITED TO ONE QUADRANT OF THE INTERSECTION AT ANY ONE TIME PERIOD. AFTER WORK IS COMPLETED IN ONE QUADRANT, ADDITIONAL WORK MAY PROCEED TO ANOTHER QUADRANT OF THE INTERSECTION.
- 12. SIDEWALKS, GUTTERS, DRAINS, FIRE HYDRANTS AND PRIVATE DRIVES SHALL BE KEPT IN GOOD CONDITION FOR THEIR INTENDED USES. FIRE HYDRANTS ON OR ADJACENT TO THE WORK SHALL BE KEPT ACCESSIBLE TO FIRE APPARATUS AT ALL TIMES, AND NO MATERIAL OR OBSTRUCTION SHALL BE PLACED WITHIN TEN (10) FEET OF ANY SUCH HYDRANT.

#### INSPECTIONS

- ALL FINAL INSPECTIONS ARE TO BE SCHEDULED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- CONTRACTOR SHALL HAVE THE APPROVED SHOP DRAWINGS AVAILABLE ON THE PROJECT SITE. 2.
- ALL WORK WHICH WILL NOT BE READILY VISIBLE UPON COMPLETION SHALL NOT BE CONCEALED UNTIL AN APPROVED INSPECTION. IN 3. THE EVENT THAT ITEMS ARE CONCEALED, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO EXPOSE THE QUESTIONED ITEM(S) FOR THE INSPECTORS APPROVAL, AT NO ADDITIONAL COST TO THE COUNTY. THIS INCLUDES, BUT IS NOT LIMITED TO BURIED OR IMBEDDED CONDUIT, GROUND WIRE, RODS, AND ARRAY, COMMUNICATIONS WIRING AND HOMERUNS. SPLICES BEFORE ENCAPSULATING. ALL MEG OHM IN THE PRECENCE OF THE COUNTY INCRECTOR AND CONTINUITY TESTING SHALL

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INCLUDES DELIVERY OF REMOVED ASSEMBLY TO BROWARD COUNTY TRAFFIC ENGINEERING DIVISION AT 3300 WEST COMMERCIAL BEAU FORT LAUDERDALE. PLEASE CONTACT THE TRAFFIC SIGNS SUPERINTENDENT AT 954-847-2717 TO CORPONATE THE DELEVED STATE MATERIALS. EXISTING STOP SIGN ASSEMBLIES ARE TO BE REMOVED IMMEDIATELY UPON COMPLETION OF SIGNALIZETATE OF MATERIALS. EXISTING STOP SIGN ASSEMBLIES ARE TO BE REMOVED IMPLETATED AND PRODUCE A MINIMUM OF 50 LUMENS PER WATT 41: E MIL FLORIDA ... 700-5-XX THILIN . SHEET

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CITY OF PEMBROKE PINES VIRONMENT-ENGINEERING DIVISION 8300 S. Palm Drive Pembroke Pines, FL 33025



.J. Behar & Company, Inc. 🔄	BROWARD	COUNTY, FLORIDA
Engineers • Planners	RJB NO.	INTERSECTION
6861 S.W. 196 Avenue, Suite 302 Pembroke Pines, Florida 33332 ROBERT J. BEHAR, P.E. LICENSE NO. 21755	20006	PALM AVENUE & SW 7th ST

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- 4. THE APPLICATION OF THE FOLLOWING MATERIALS TO VARIOUS TRAFFIC SIGNAL COMPONENTS SHALL BE PERFORMED DURING ASSEMBLY:
  - . THREADED HARDWARE: ALL NON-ELECTRICAL THREADED HARDWARE (i.e. ASTRO BRACKET HARDWARE, POLE HARDWARE OR ANY ANTI-SEIZE COMPOUND WILL BE ACCEPTED.
  - . GASKETING SURFACES: ALL GASKET SURFACES SHALL BE LIGHTLY COATED WITH COUNTY APPROVED SILICONE GREASE.

  - TERMINATION COATEDWITH COUNTY APPROVED OXIDE INHIBITOR.
  - AT http://www.broward.org/Traffic/Pages/Publications.aspx. . WEATHERPROOFING: IRREGULAR MATING SURFACES SHALL BE RENDERED WEATHERPROOF BY APPLYING AN APPROPIATE BEAD OF
  - BUTTONS, AND ANY OTHER AREAS TYPICALLY PRONE TO MOISTURE INFILTRATION. . CABLE ENTRY/EXIT: WHENEVER A CABLE ENTERS OR EXITS A FIELD DRILLED HOLE, THE CABLE SHALL BE PROTECTED FROM ABRASION WITH AN APPROVED MEANS.
- 5 TRUCK FOR USE BY THE INSPECTOR AND MAINTENANCE STAFF.

#### PAY ITEM NOTES

- 102-1 ZONE: AND IF IT WAS VERIFIED TO BE PRESENT AT THE ACTIVE WORK ZONE BY THE ENGINEER OR INSPECTOR.
- 649-2X-XXX POLES REQUIRING MODIFICATION OF THE ARM LENGTH SHALL BE TREATED PER THE GENERAL NOTES ON THE RESPECTIVE DETAIL SHEETS PROVIDED IN THE CONTRACT PLANS, COMPONENTS REQUIRING FIELD METALLIZING AND TOUCH UP SHALL BE TREATED PER SECTION 975 AND IN ACCORDANCE WITH THE 'MAST ARM PAINT SPECIFICATION' PROVISIONS AS POSTED ONLINE AT THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PUBLICATIONS WEBSITE AT http://www.broward.org/Traffic/Pages/Publications.aspx. STRUCTURAL ENGINEER AND SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 460 INCLUDING FDOT SUPPLEMENTAL SPECIFICATIONS.

ALL MAST ARMS SHALL BE PROVIDED WITH A TERMINAL COMPARTMENT.

BID PRICE FOR INSTALLATION OF MAST ARMS SHALL INCLUDE FOUNDATION CONSTRUCTION, INCLUDING CSL TUBES (NUMBER AND CONFIGURATION OF CSL TUBES SHALL COMPLY WITH STANDARDS AND SPECIFICATIONS SECTION 455-16.4 CSL TUBES AND FDOT STANDARD PLANS INDEX 649-031).

THE CONTRACTOR SHALL BE RESPONSIBLE AT THE TIME OF PICK-UP TO VERIFY AND NOTE ANY EXISTING DEFECTS OR MISSING ITEMS. ITEMS NOT NOTED AT THE TIME OF PICK-UP SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSES. PAYMENT INCLUDES THE DEVELOPMENT AND SUBMITTAL OF A DRILLED SHAFT INSTALLATION PLAN PER INTERSECTION FOR THE COUNTY'S APPROVAL AS REFERENCED IN FDOT SPECIFICATIONS. A GIVEN MAST ARM/POLE ASSEMBLY LOCATION SHALL BE FIELD VERIFIED AND IDENTIFIED AS FREE OF CONFLICTS AND/OR OBJECTS BY THE CONTRACTOR PRIOR TO PROCUREMENT OF THE ASSOCIATED MAST ARM/POLE ASSEMBLY.

THE EQUIPMENT AND/OR THE FPL COORDINATION SHALL BE REFLECTED IN THE CONTRACTOR'S BID UNIT PRICE FOR MAST ARM CONSTRUCTION.

650-1-XX ALL TRAFFIC SIGNAL HEADS SHALL BE STANDARD, NOT LIGHTWEIGHT.

- 670-5-14X THE CONTROLLER ASSEMBLY SHALL CONSIST OF A 2070 CONTROLLER WITH VERSION 76 FIRMWARE AND A TS2 TYPE 1 SHELF MOUNTED WITHIN A TYPE VI CONTROLLER CABINET WITH FRONT AND BACK DOORS (SPECIAL NOTE: IF THERE IS LIMITED SIDEWALK ADA CLEARANCE, A REDUCED DEPTH TYPE VI CABINET CAN BE USED WITH PRIOR APPROVAL FROM BCTED). EQUIPMENT USED MUST BE
- 684-1-X



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THREADED SURFACE) SHALL BE COATED WITH AN ANTI-SEIZE LUBRICANT APPROVED BY THE ENGINEER OF RECORD. NO SPRAY ON

. ELECTRICAL CONNECTIONS: ALL MECHANICAL/ELECTRICAL CONNECTIONS SHALL HAVE THE VARIOUS COMPONENTS OF THE SPLICE OR

. GALVANIZED SURFACES: ALL SCRATCHES AND FIELD-DRILLED HOLES SHALL BE TREATED IN ACCORDANCE WITH THE 'MAST ARM PAINT SPECIFICATION PROVISIONS AS POSTED ONLINE AT THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PUBLICATIONS WEBSITE

CLEAR SILICON CAULK. THESE AREAS INCLUDE SERRATED SIGNAL COUPLINGS, CONTROLLER CABINET FOUNDATION, PEDESTRIAN PUSH

IN AN INSPECTION CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT INCLUDING A TWO MAN BUCKET TRUCK OR PLATFORM LIFT

PAYMENT FOR THIS ITEM SHALL ONLY BE MADE IF THE APPROVED MAINTENANCE OF TRAFFIC PLAN INCLUDES A UNIFORMED TRAFFIC CONTROL OFFICER, WITH A MARKED LAW ENFORCEMENT VEHICLE, TO ASSIST IN CONTROLLING AND DIRECTING TRAFFIC IN THE WORK

STEEL PROVIDED FOR STRUCTURAL MODIFICATIONS SHOWN IN THE CONTRACT PLANS SHALL BE PER SECTION 962 AND OF A SIMILAR TYPE AND GRADE OF THE COMPONENT ATTACHED TO. IF REQUIRED, FIELD WELDING SHALL BE DONE ONLY WITH THE APPROVAL OF THE

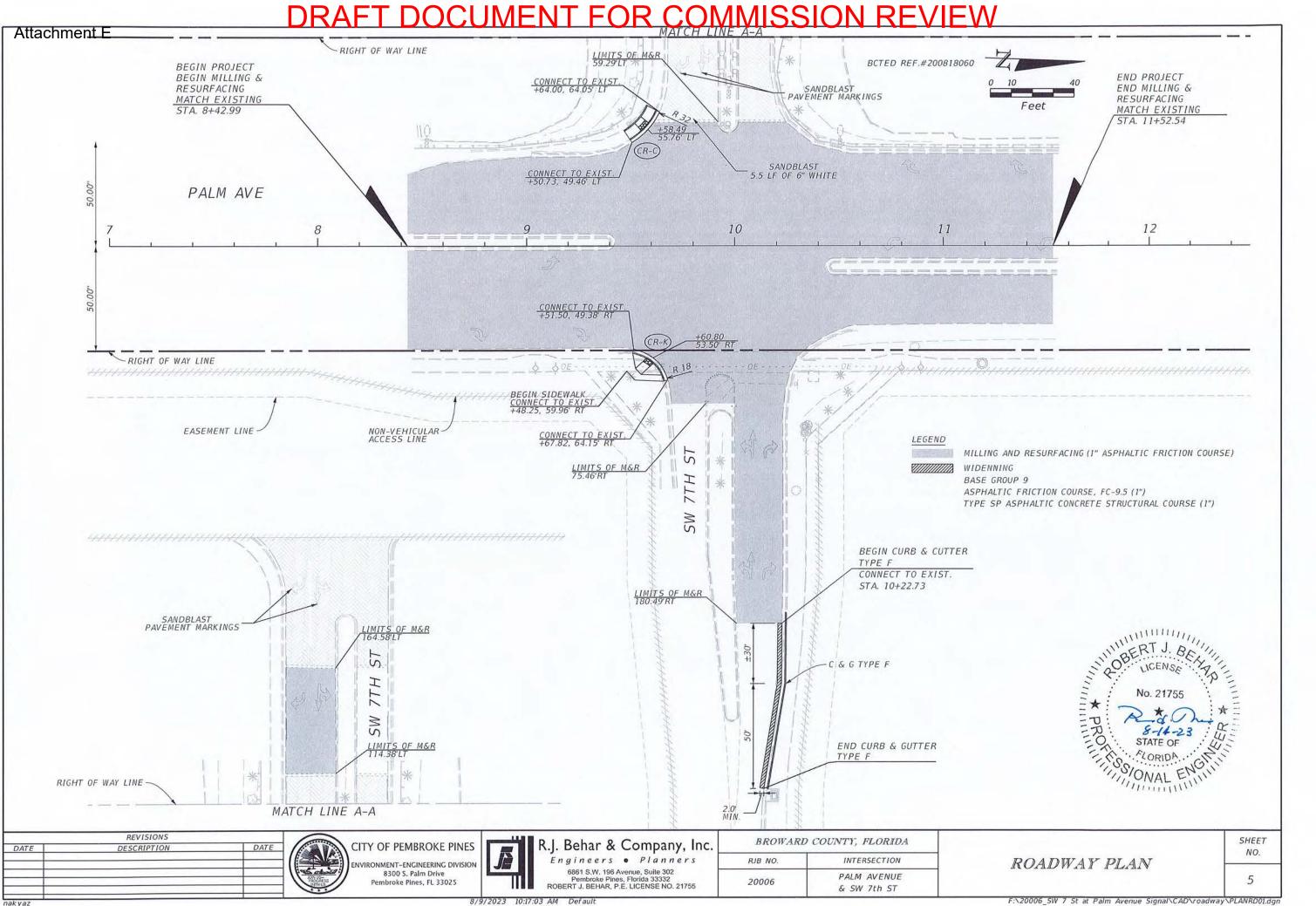
CERTIFIED FROM THE FDOT APL LIST. THIS 2070 CONTROLLER SHALL PROVIDE TOTAL UTILITY AND INTEROPERABILITY WITH BCTED'S ATMS.NOW COMPUTER SYSTEM. THE CABINET SHALL INCLUDE A MINIMUM OF SIXTEEN (16) LOAD SWITCH BAYS AND ACCOMMODATIONS FOR THE VIDEO DETECTION SYSTEM. THE CABINET AIR FILTER SHALL BE OF THE REUSABLE WASHABLE ALUMINUM TYPE. THE TOP OF THE CONTROLLER PAD SHALL BE AT LEAST SIX INCHES ABOVE THE ROADWAY ELEVATION. THIS PAY ITEM SHALL ALSO INCLUDE COMPLETE REINTEGRATION OF THE EXISTING GPS PRIVATE SWITCH SHALL BE INCLUDED ON THE DOOR OPENS AWAY THE A FLUSH MOUNTED AUTOMATIC POWER TRANSFER SWITCH SHALL BE INCLUDED ON THE DOOR OPENS AWAY THE A FLUSH MOUNTED AUTOMATIC POWER TRANSFER SWITCH SHALL BE INCLUDED ON THE DOOR OPENS AWAY THE WIDTH SHALL ALSO BE PROVIDED. WHENEVER POSSIBLE, THE CABINET IS TO BE PLACED SO THAT THE DOOR OPENS AWAY THE INTERSECTION AND OPENS FULLY WITHIN THE RIGHT OF WAY. THIS PAY ITEM INCLUDES THE COST OF THE CONCRETE FORTHE INTERSECTION AND OPENS FULLY WITHIN THE RIGHT OF WAY. THIS PAY ITEM INCLUDES THE COST OF THE CONCRETE FORTHE INTERSECTION AND THE SERVICE PAD. INTERSECTION AND OPENS FULLY WITHIN THE RIGHT OF WAY. THIS PAILINE INCLOSES THE INCLOSES THE REPORT OF WAY. THIS PAILINE INCLUSES THE REPORT OF THE RIGHT OF WAY. THIS PAILINE INCLUSES THE REPORT OF THE RIGHT OF WAY. THIS PAILINE REPORT OF THE RIGHT OF THE RIGHT OF WAY. THIS PAILINE REPORT OF THE RIGHT OF THE RIGHT OF WAY. THIS PAILINE REPORT OF THE RIGHT OF TH

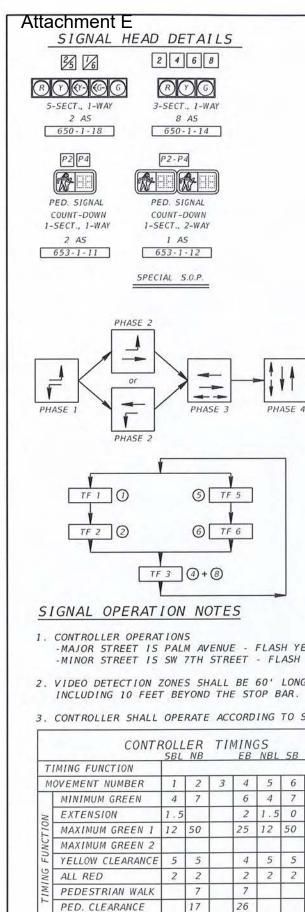
CONTRACTOR SHALL COORDINATE THE ORDER AND DELIVERY OF THE CELLULAR COMMUNICATIONS EOUPMENT SIX (6) WEEK55PRIOR TO FINAL INSPECTION WITH THE COMMUNICATIONS MANAGER (954-847-2745) OR EMAIL AT TECOMMUNICATIONS OBROWARD.ORG. \*

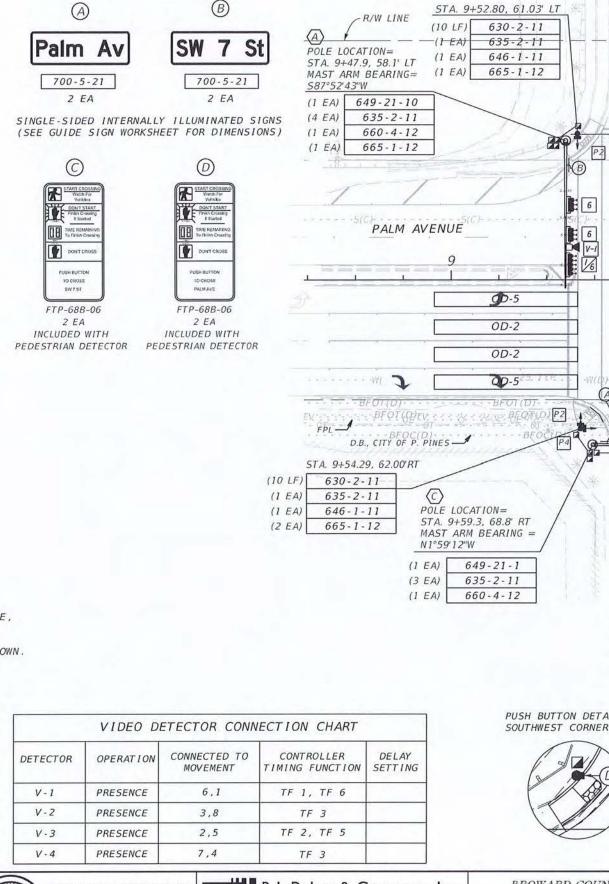
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- 2. VIDEO DETECTION ZONES SHALL BE 60' LONG PER LANE,
- 3. CONTROLLER SHALL OPERATE ACCORDING TO S.O.P. SHOWN.

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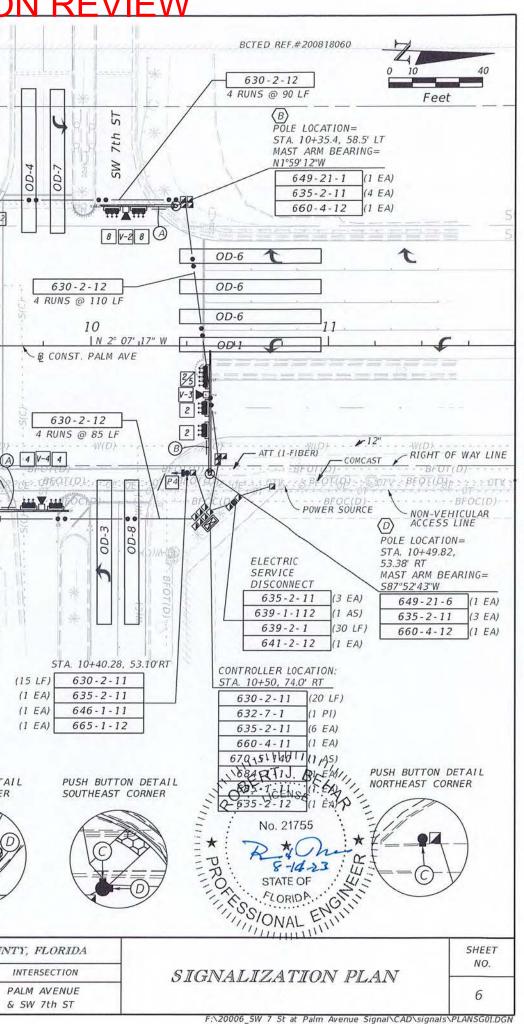
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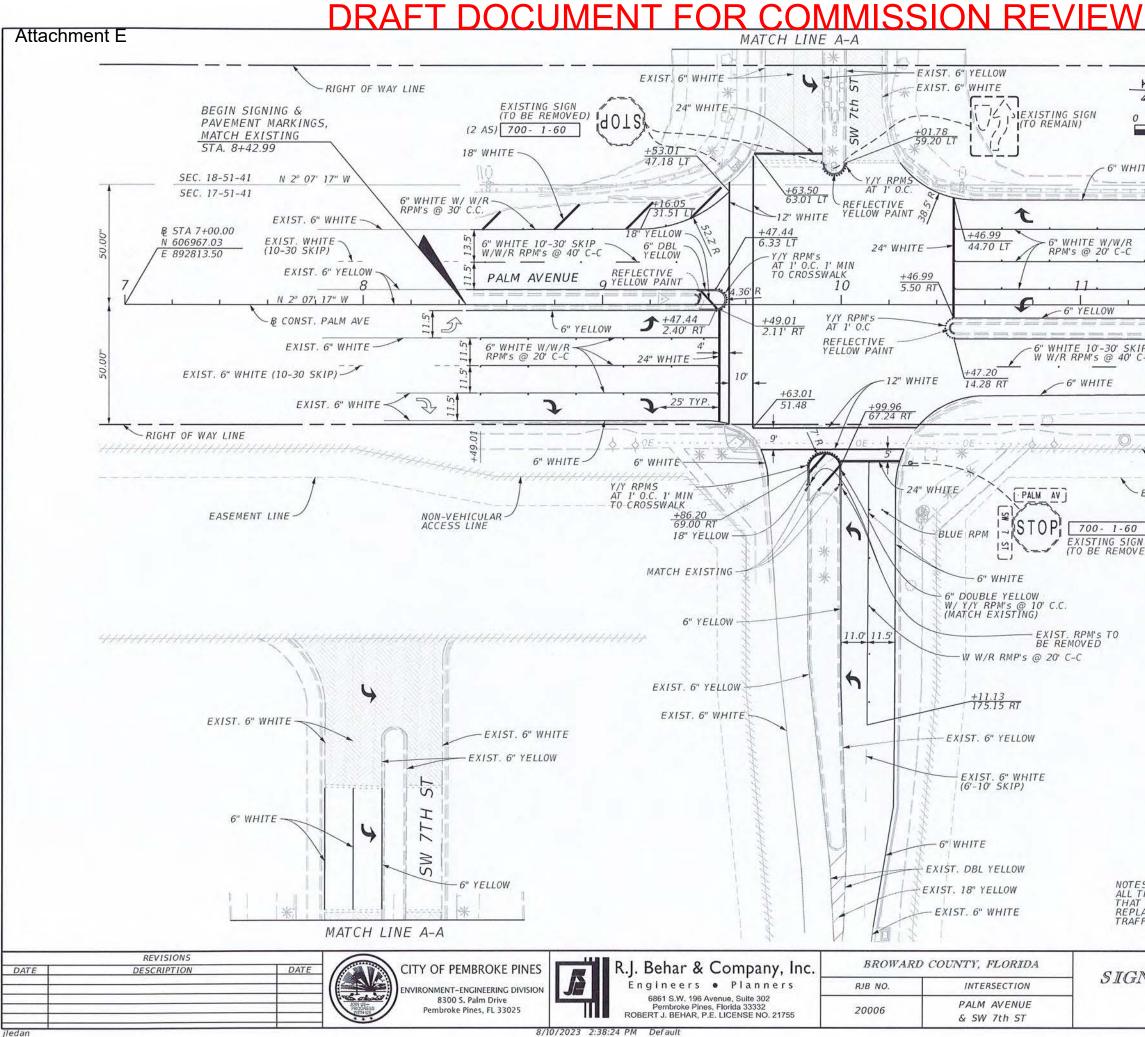
CITY OF PEMBROKE PINES VIRONMENT-ENGINEERING DIVISION 8300 S. Palm Drive Pembroke Pines, FL 33025

SIGN DETAILS



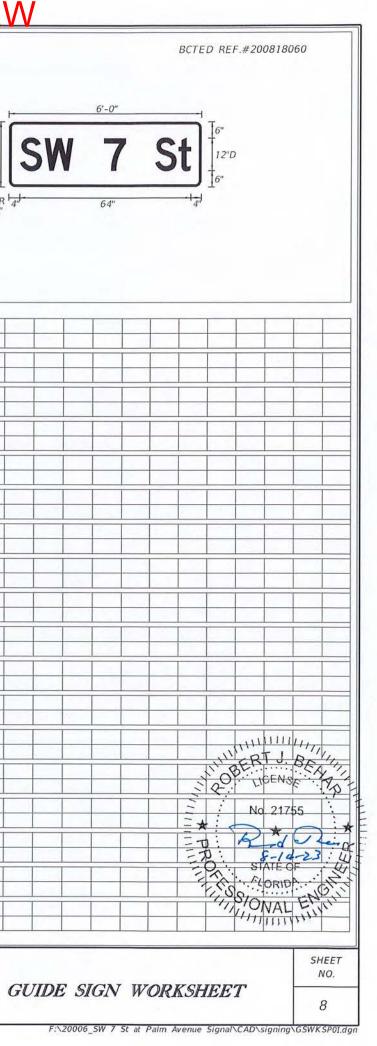
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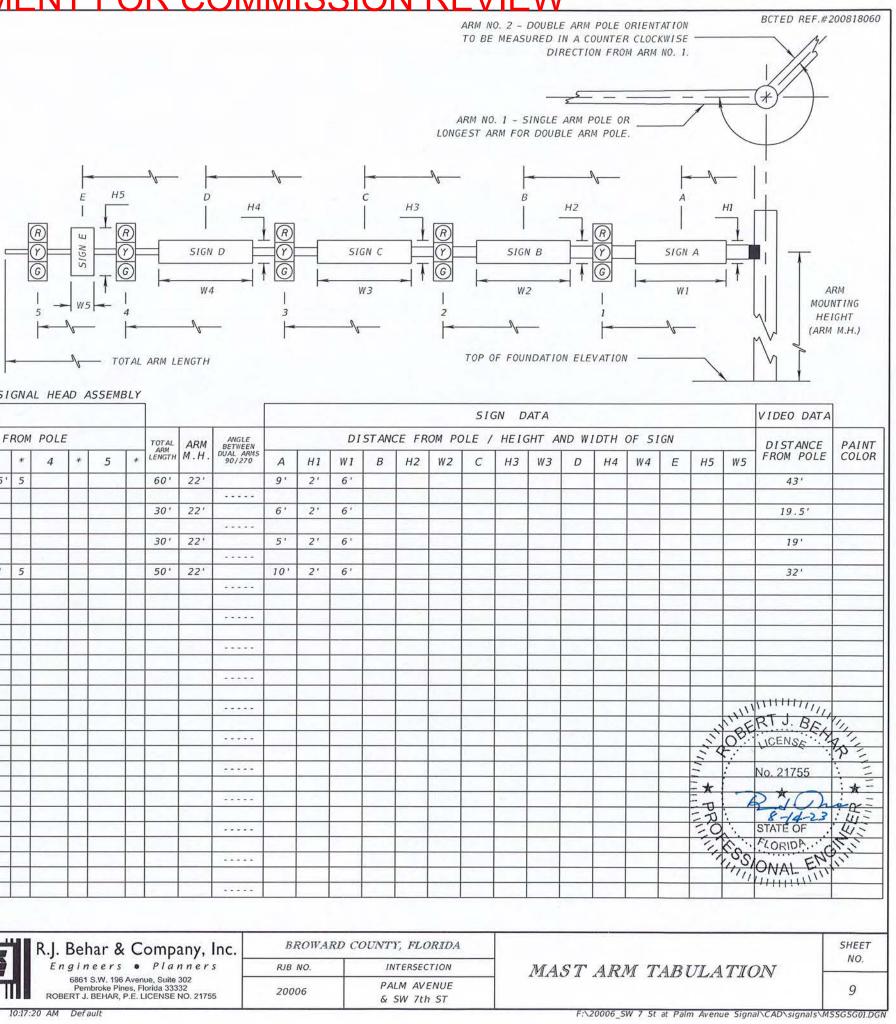
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	Engineers • Pla	nners RJB NO. INTERSECTION
	8300 S. Palm Drive 6861 S.W. 196 Avenue, Suit	B 302 BALM AVENUE
	Pembroke Pines, FL 33025 Pembroke Pines, FL 33025 ROBERT J. BEHAR, P.E. LICENSI	20006 FACIN AVENUE ENO. 21755 20006 & SW 7th ST
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Attachment E

nakyaz

SP	ECI	AL	INST	TRUC	TIONS
ID NO.	PE BUT	D. TON	PE SIG	ED. NALS	HANDHOLE LOCATION
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-					



*	DENOTES	NUMBER	OF	SECTIONS	IN	SIGNAL	HEAD	ASSEMBLY

																				T						_	_				
									1		5	IGNAL	. L	DATA		_	_		_		-			_				-	51	GN D	ATA
ID	SHEET	LOCATION	TOP OF FOUND.	RDWY ARM NO.	CROWN	LUMI - NAIRE	SIGNAL	BACK	PED. SIGNAL			DI	STA	ANCE I	ROM	1 POLE	Ξ			TOTAL	Alvin	ANGLE BETWEEN DUAL ARMS			DI	STAN	ICE FR	OM P	OLE /	' HEIC	SHT
NO.	NO.	BY STA.	ELEVATION	NO.	ELEV.	Y/N	V/H	Y/N	YIN	1	*	2	*	3	*	4	*	5	*	LENGTI	ч M.H.	90/270	A	Н1	W 1	В	H2	W2	С	НЗ	W3
Α	6	9+47.90		1	6.35'	N	Н	Y	N	25.5	3	38'	3	50.5	5					60'	22'		9'	2'	6'						
422	22222			2																											
В	6	10+35.40		1	6.00'	N	Н	Y	N	14.5	3	25.5	4						2	30'	22'		6'	2'	6'		_				
	124222-24			2																				1							
С	6	9+59.30		1	5.25'	N	Н	Y	N	13.5	3	25'	4		-					30'	22'		5'	2'	6'	-					
		************	1000000	2																											
D	6	10+49.80		1	6.25'	N	Н	Y	N	17'	3	26'	3	39'	5	_		-		50'	22'		10'	2'	6'						
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DAL		DESCRIP	1101		DA	-1		231		MENT-ENG						E n	gin	ieers		Pla	nner	s	RJB	NO.		I	NTERSEC	TION		1	M
						$\exists$	ACIAN US- PRICATE	IJ		8300 S. P nbroke Pir	alm D	rive				10000	6861 Pen	S.W. 19 hbroke P	6 Aver ines, F	nue, Suite Iorida 33	9 302		200	06			ALM AV SW 7tl			1	1111

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# DRAFT DOCUMENT FOR COMMISSION REVIEW

	STANDARD MAST ARM ASSEMBLIES DATA TABLE								Table Date 11-01-16		
STRUCTURE		FIRST	ARM	SECON	ID ARM				POLE		DRILLED
ID NUMBERS	DESIGNATION	ARM ID	FAA (ft.)	ARM ID	SAA (ft.)	UF (deg)	LL (deg)	POLE ID	UAA (ft.)	UB (ft.)	SHAFT ID
А	A60/S - P4/S	A60/5						P4/5		22	DS/20/5.0
В	A30/5 - P1/S	A30/5						P1/5		22	D5/12/4.0
с	A30/S - P1/S	A30/5						P1/5		22	DS/12/4.0
D	A50/S - P3/S	A50/S						P3/S		22	DS/16/4.5
							/				
							<u>z s</u>				

#### NOTES [Notes Date 11-01-16]:

- 1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
- 2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
- 3. Arm mounting height UB must be between 18-22 feet.
- 4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
- 5. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- 6. Work with Index 649-030 and 649-031.

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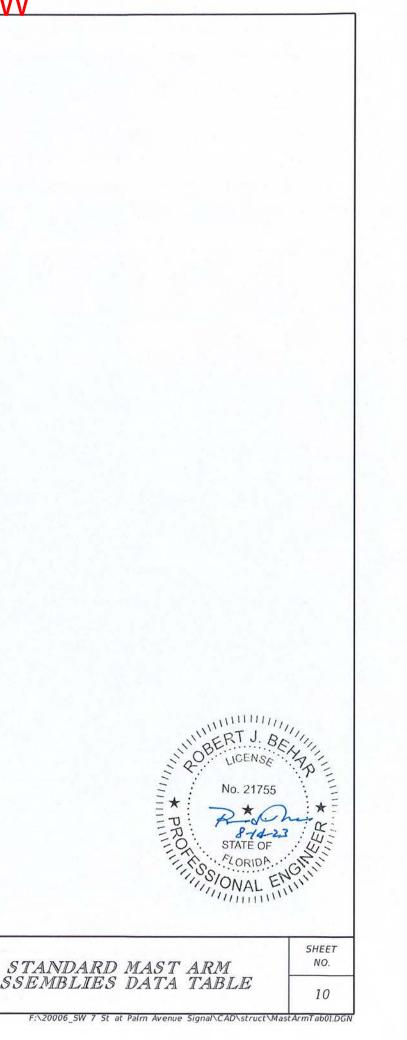
CITY OF PEMBROKE PINES ENVIRONMENT-ENGINEERING DIVISION 8300 S. Palm Drive Pembroke Pines, FL 33025

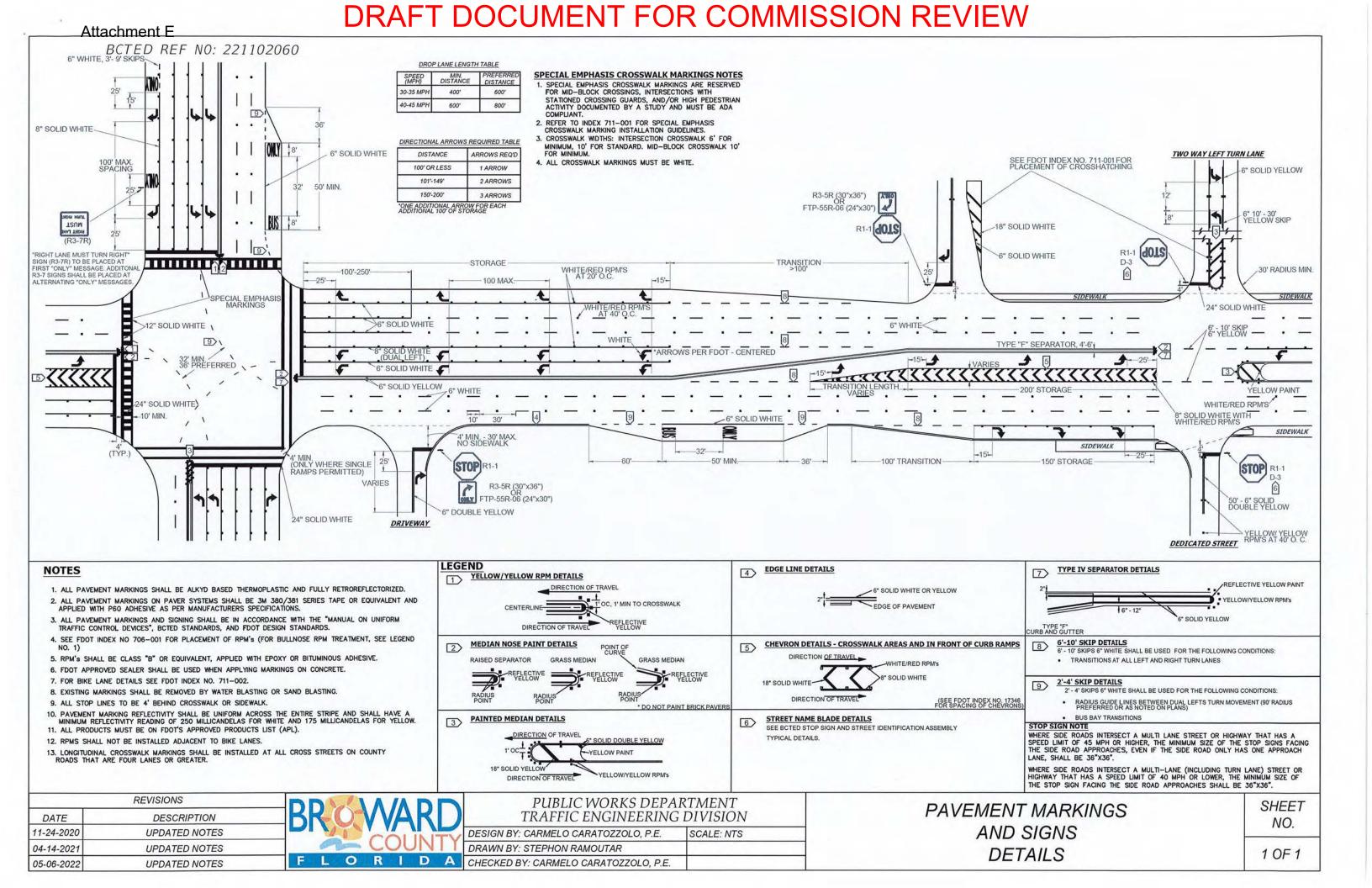


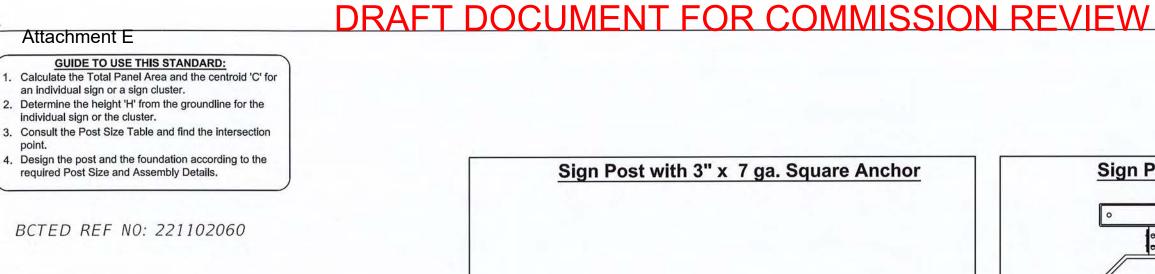
R.J. Behar & Company, Ir Engineers • Planners 6861 S.W. 196 Avenue, Suite 302 Pembroke Pines, Florida 33332 ROBERT J. BEHAR, P.E. LICENSE NO. 21755

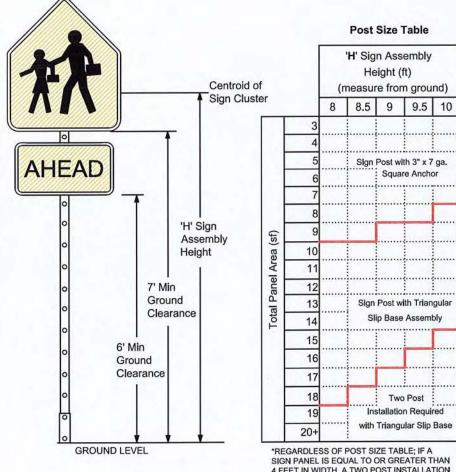
Inc.	BROWARD	COUNTY, FLORIDA	
5	RJB NO.	INTERSECTION	
5	20006	PALM AVENUE & SW 7th ST	ASS

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REVISIONS

DATE

03-21-2017

11-24-2020

02-05-2021

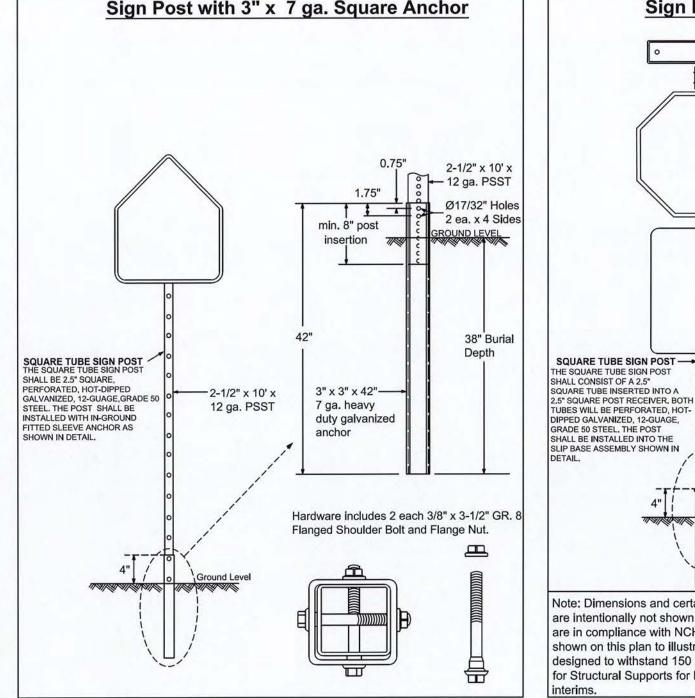
DESCRIPTION

UPDATED POST SIZE

ADDED POST SIZE NOTE

UPDATED POST BASE HEIGHT

1.



PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

SCALE: NTS

DESIGN BY: YVES D'ANJOU, P.E.

DRAWN BY: STEPHON RAMOUTAR

CHECKED BY: ANDREW SEBO, P.E., PTOE

\*REGARDLESS OF POST SIZE TABLE; IF A SIGN PANEL IS EQUAL TO OR GREATER THAN 4 FEET IN WIDTH, A TWO POST INSTALLATION IS REQUIRED WITH A TRIANGULAR SLIP BASE.

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